ARCHITECTURAL SUPPLEMENTAL INSTRUCTIONS No. 1

To: Darrell Durant
Pete Durant & Associates, Inc.
2040 Golden Triangle Dr.
Fort Worth, TX 76177

From: Phil Armentrout

Date: **April 5, 2024**

Re: St Jude Catholic Church
Martsolf Architecture Project No. 2307

The work shall be carried out in accordance with the following supplemental instructions issued in accordance without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

Description

1. Sheets revised per City comments.

Attachments

Revisions for the following sheets – A0.1, A0.2, A2.1, A3.1-A3.6, A7.4, C2.1., C4.1, C5.1, C6.1, S1.3, S1.6, S4.1, S4.2, S4.3, M0.2, M2.1, M3.1, E0.1, P0.1.Note all are revision 3, except for civil which are revision 1.

Thank you,

Phil Armentrout

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CIVIL - LANDSCAPING

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	11/10/2023	C3.1	DEMOLITION PLAN
3	11/10/2023	C4.1	UTILITY PLAN
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ARCHITECTURAL

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	11/20/2023	A2.0	DEMOLITION PLAN
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3	11/20/2023	A2.1	FIRST FLOOR PLAN
	11/20/2023	A2.2	CLERESTORY PLAN
	11/20/2023	A2.3	ROOF PLAN
3	11/20/2023	A3.1	EXTERIOR ELEVATIONS
3	11/20/2023	A3.2	EXTERIOR ELEVATIONS
3	11/20/2023	A3.3	BUILDING SECTIONS
3	11/20/2023	A3.4	WALL SECTIONS
3	11/20/2023	A3.5	WALL SECTIONS
3	11/20/2023	A3.6	WALL SECTIONS
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1	11/20/2023	A4.2	WINDOW TYPES
	11/20/2023	A5.1	ENLARGED PLANS
2	11/20/2023	A5.2	ENLARGED PLANS
	11/20/2023	A6.1	REFLECTED CEILING PLAN
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STRUCTURAL

REVISED	ISSUED	SHEET	SHEET TITLE
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	11/2/2023	S0.2	GENERAL NOTES
	11/2/2023	S1.1	FOUNDATION PLAN
	11/2/2023	S1.2	PIER PLAN
3	11/2/2023	S1.3	FOUNDATION DIMENSION PLAN
	11/2/2023	S1.4	SLAB REINFORCING PLAN
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3	11/2/2023	S1.6	ROOF FRAMING PLAN
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M.E.P.

REVISED	ISSUED	SHEET	SHEET TITLE
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3	11/10/23	M2.1	HVAC PLAN
	11/10/23	M2.2	HVAC ROOF PLAN
3	11/10/23	M3.1	PARTIAL FLOOR - HVAC PLANS
	11/10/23	M4.1	HVAC DETAILS
3	11/10/23	E0.1	ELECTRICAL LEGEND
	11/10/23	E0.2	ELECTRICAL SPECIFICATIONS
	11/10/23	E0.3	LIGHTING CONTROLS, SCHEDULES, DETAILS
1	11/10/23	E1.0	ELECTRICAL SITE PLAN
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1	11/10/23	E2.1	LIGHTING PLAN
1	11/10/23	E3.1	POWER AND DATA PLAN
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	11/10/23	P3.2	PARTIAL FLOOR - PLUMBING PLANS
	11/10/23	P4.1	PLUMBING DETAILS

GENERAL NOTES

1. THIS SET OF DRAWINGS AND PROJECT MANUAL INDICATES GENERAL SCOPE OF PROJECT IN TERMS OF ARCHITECTURAL DESIGN, DIMENSIONS OF BUILDING, MAJOR ARCHITECTURAL ELEMENTS , STRUCTURAL MECHANICAL AND ELECTRICAL SYSTEMS. DRAWINGS DO NOT NESSARARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF REQUIREMENTS OF CONTRACT DOCUMENTS. CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF WORK.
2. CONTRACTORS TO VERIFY AND DOCUMENT ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION BEGINS. NOTIFY ARCHITECT OF CONFLICTS OR VARIATION PRIOR TO COMMENCEMENT OF WORK.
3. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND ADDITIONAL WORK BY OTHERS BEFORE PROCEEDING WITH ANY TRENCHING, DEMOLITION, OR DRILLING.
4. ALL PARTITIONS ARE DIMENSIONED TO FACE OF FOUNDATION OR FACE OF STUD.
5. SUSPENSIONS, BRACING, BLOCKING. ETC. SHOWN AT CEILING FURRING DETAILS ARE SCHEMATIC REPRESENTATION ONLY. PROVIDE SECURE PERMANENT ANCHORAGE IN ACCORDANCE WITH RECOMMENDED INSTALLATION PRACTICES, TYPICAL.
6. THE SUBMISSION OF A BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND THE SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR, BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION OF THE PLANS BEEN MADE.
7. EVEN THOUGH THESE DRAWINGS DO NOT CONTAIN EVERY DETAIL, THE CONTRACTOR SHALL PRESENT TO THE OWNER A FULLY DETAILED AND COMPLETE BUILDING READY FOR THE OWNER TO USE.
8. ALL WORK SHALL CONFORM TO THE 2012 ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS.
9. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND THE EXACT LOCATION OF ANY AND ALL UTILITIES WHETHER ABOVE OR BELOW GROUND. THE CONTRACTOR SHALL HIRE A COMPANY TO ESTABLISH THE EXACT LOCATION OF GAS LINES, ELECTRICAL LINES, COMMUNICATION LINES, TELEPHONE LINES, ETC. AND HAVE ALL MARKED.
10. CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR AS REQUIRED TO FURNISH THE OWNER A COMPLETELY FINISHED FACILITY READY FOR THE OWNER TO USE.
11. COPIES OF THIS SET OF PLANS SHALL BE SUBMITTED TO TARRANT COUNTY FIRE MARSHAL FOR REVIEW FOR A BUILDING PERMIT. ANY COMMENTS MADE BY THE COUNTY SHALL BE INCORPORATED INTO THIS SET OF PLANS AND BECOME A PERMANENT PART OF THE PLANS.
12. ANY DEVIATION FROM THE PLANS WITHOUT PRIOR APPROVAL OF THE ARCHITECT SHALL BE CAUSE FOR THE REJECTION OF MATERIALS AND OR METHODS AND ANY COSTS INCURRED TO CORRECT ANY DEVIATION TO THE SATISFACTION OF THE ARCHITECT AND ENGINEERS SHALL BE BORNE BY THE CONTRACTOR.
13. ANY QUESTIONS OR CONFLICTS BETWEEN DRAWINGS OF THE ARCHITECT OR BETWEEN THE ARCHITECT'S DRAWINGS AND THE ENGINEERING CONSULTANT'S DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING BEFORE THE BUILDING COST IS SUBMITTED TO THE OWNER.
14. ANY CONFLICTS IN DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING THE WALL LAYOUT PROCESS PRIOR TO THE BEGINNING OF THE CONSTRUCTION OF ANY WALLS.
15. THE CONTRACTOR SHALL PROVIDE A COMPLETE STRUCTURE WHETHER EXPRESSLY DETAILED OR NOT AND ALL COSTS FOR SAID STRUCTURE SHALL BE INCLUDED IN THE ORIGINAL BUILDING COST SUBMITTED TO THE OWNER. ALL MISCELLANEOUS METALS AS DETAILED OR EVEN AS NECESSARY TO SUPPORT OTHER STEEL OR STRUCTURES OR EQUIPMENT SHOWN IN ARCHITECTURAL, STRUCTURAL, OR CONSULTANTS DRAWINGS SHALL ALSO BE INCLUDED IN THE ORIGINAL COST TO THE OWNER.
16. RELEVANT INFORMATION TO A TRADE MAY BE SHOWN ON DRAWINGS OTHER THAN THOSE SPECIFIC TO THAT TRADE. CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR INFORMATION SHOWN ON ALL SHEETS AND THE ORIGINAL BUILDING COST SUBMITTED TO THE OWNER SHALL INCLUDE INFORMATION SHOWN ON ALL SHEETS.

ADOPTED CONSTRUCTION CODES

2017 National Electrical Code, 2023 NEC Per State
2018 International Building Code
2018 International Energy Conservation Code
2018 International Existing Building Code
2018 International Fire Code
2018 International Fuel Gas Code
2018 International Mechanical Code
2018 International Plumbing Code

NEW BUILDING CONSTRUCTION

BUILDING TABULATIONS:

PARISH HALL & CONNECTOR
BUILDING CONSTRUCTION TYPE: V-B
PROPOSED USE: A-3
NOTE : BUILDING FURNISHED WITH NEW AUTOMATIC FIRE SPRINKLER SYSTEM
EXISTING PARISH HALL: 9,863 S.F.
PROPOSED CONNECTOR: 5,980 S.F.
TOTAL 15.843 SF

Aa = {At + [At X If] + [At X Is]} ALLOWABLE BUILDING AREA MODIFICATION (PER 506)
At - 6,000 SF (TABLE 503)
If = CALCULATED AREA FRONTAGE INCREASE (NOT USED)
Is = 3 (AREA INCREASE FOR SPRINKLER PER 506.3)

Aa = {6,000 + [6,000 X 0) + [6,000 X 3]} = 24,000 SF ALLOWED PER STORY

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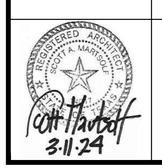
MANSFIELD, TX 76063

1 1/15/24 ADDENDUM #1	
2 1/18/24 ADDENDUM #2	
3 3/8/24 CITY COMMENTS	

PERMIT SET

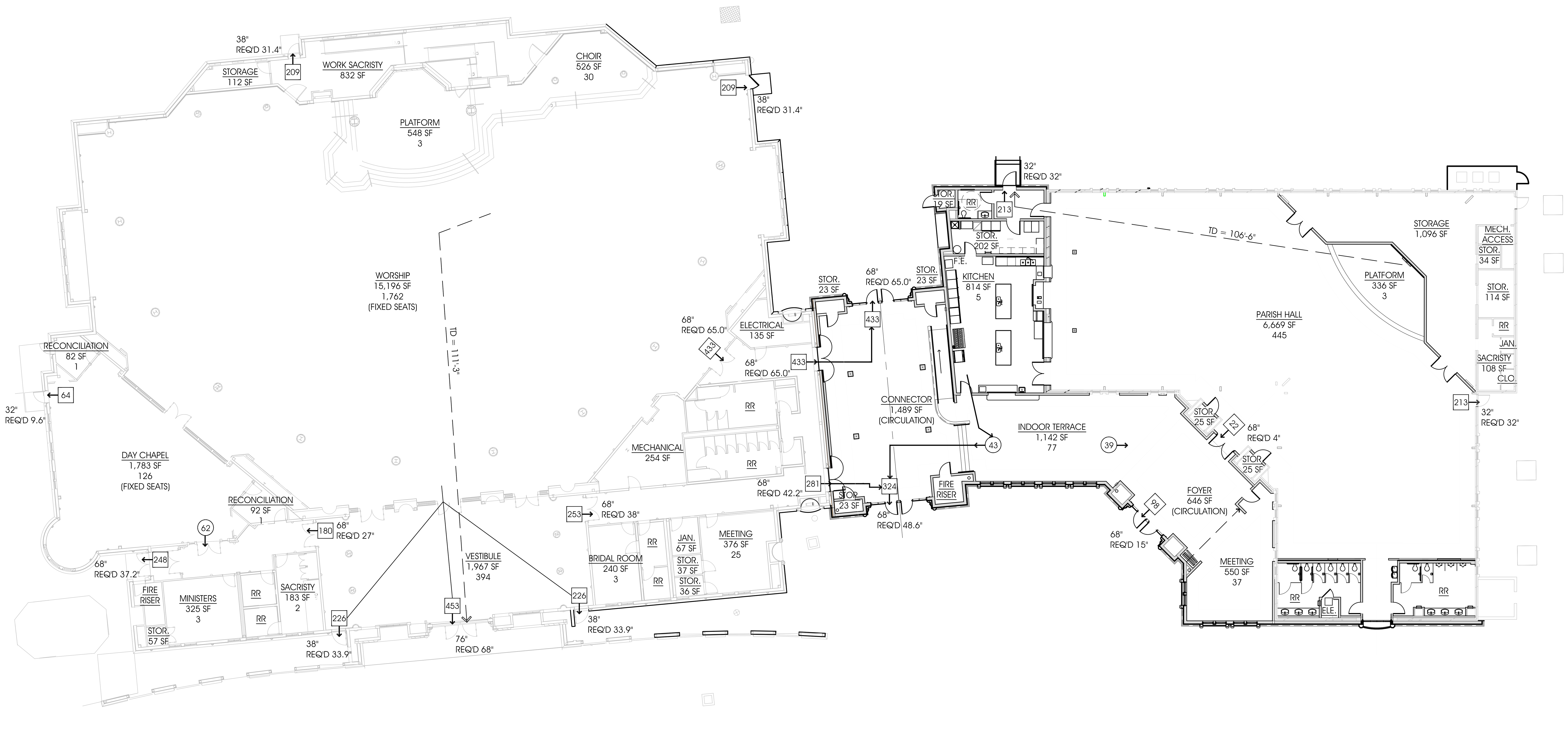
Drawing Title:
INDEX, CODES, NOTES

Project No.	Date:
2307	1/12/2024



Sheet No.
A0.1

OCCUPANCY CALCULATIONS	
CONNECTOR (CIRCULATION ONLY)	0
INDOOR TERRACE (TABLES AND CHAIRS)/15	77
FOYER (CIRCULATION ONLY)	0
MEETING ROOM (TABLES AND CHAIRS)/15	37
KITCHEN /200	15
REQUIRED EGRESS WIDTH: PROVIDED EGRESS WIDTH:	
ALLOWED EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER) = 250'	
REQUIRED EGRESS WIDTH: 438" PROVIDED EGRESS WIDTH: 596"	



1 EGRESS/LIFE SAFETY PLAN
Scale: 1/8" = 1'-0"

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3 3/8/24 CITY COMMENTS

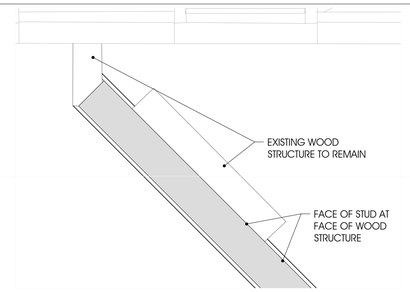
PERMIT SET

Drawing Title:
EGRESS/LIFE SAFETY PLAN

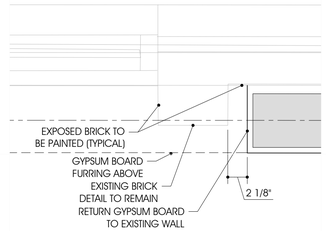
Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF
Scott Martsolf 3.11.24

Sheet No.
A0.2
3



2 DETAIL
Scale: 1" = 1'-0"



3 DETAIL
Scale: 1 1.2" = 1'-0"
(TYPICAL AT WINDOW OPENINGS BETWEEN PARISH HALL AND NEW FOYER)

SHEET NOTES

1. APPLY FLUID APPLIED WATERPROOFING MEMBRANE OVER ALL NEW EXTERIOR SHEATHING
2. PROVIDE METAL WITH RUBBER INSERT EXPANSION JOINT COVERS AT FLOOR, WALL, AND CEILING AT ALL OPENINGS BETWEEN THE EXISTING AND NEW BUILDING. COVERS BETWEEN THE CHURCH AND CONNECTOR ARE TO BE FIRE-RATED.

PAINT EXPOSED BRICK TO MATCH E.I.F.S. COLOR - ALTERNATE NO.1

PAINT ALL EXPOSED BRICK WALLS THROUGHOUT PARISH HALL

PAINT ALL EXPOSED INTERIOR BRICK WALLS THROUGHOUT PARISH HALL

5/8" GYPSUM BOARD OVER 3 5/8" METAL STUD FURRING TO WRAP NEW COLUMN; SEE STRUCT.

PROVIDE KNOX BOX 3261 SERIES WITH HINGED LID AT FRONT ENTRANCE AND FIRE RISER ROOM. COORDINATE STYLE, FINISH, AND LOCATIONS WITH ARCHITECT AND FIRE DEPARTMENT PRIOR TO PURCHASING AND INSTALLATION

EXISTING EXIT DOOR WITH EXISTING PANIC HARDWARE TO REMAIN

REPAIR EXISTING STRUCTURAL FLOOR AS REQUIRED FOR NEW PLUMBING

INFILL DOOR OPENING

INFILL EXISTING WINDOW OPENING WITH METAL STUDS AND GYPSUM BOARD

1 FLOOR PLAN
Scale: 1/8" = 1'-0"

SHEET LEGEND

1. FINISH SCHEDULE LOCATED ON SHEET A4.1
2. DOOR SCHEDULE LOCATED ON SHEET A4.1
3. WINDOW TYPES LOCATED ON SHEET A4.2
4. WALL TYPES LOCATED ON SHEET A4.1, WALL TYPE IS "A" UNLESS NOTED OTHERWISE.

F.E.C. = FIRE EXTINGUISHER CABINET

F.E. = FIRE EXTINGUISHER

E.J.C. = METAL EXPANSION JOINT COVER WITH RUBBER INSERT AT FLOOR, WALL, AND CEILING

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1 1/15/24 ADDENDUM #1	
3 3/18/24 CITY COMMENTS	

PERMIT SET

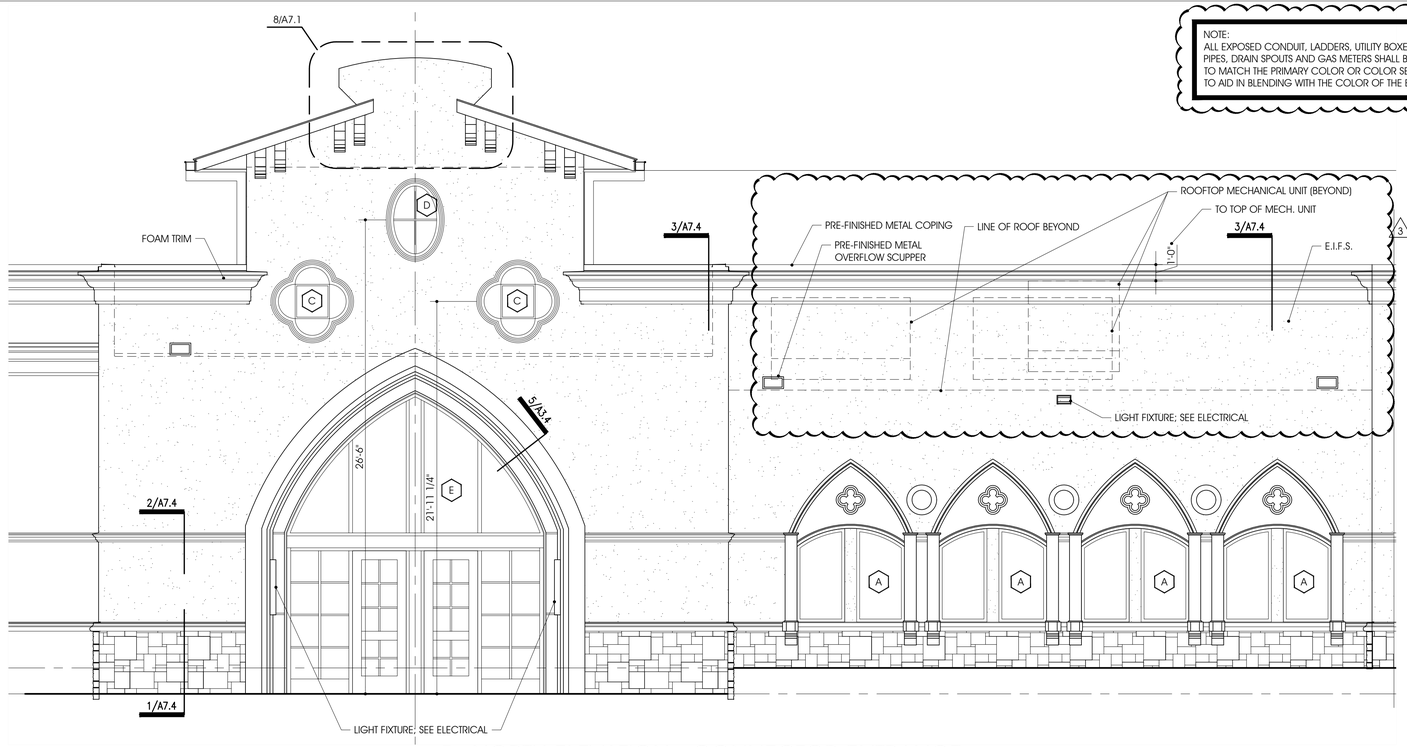
Drawing Title:
FLOOR PLAN

Project No.	Date:
2307	1/12/2024

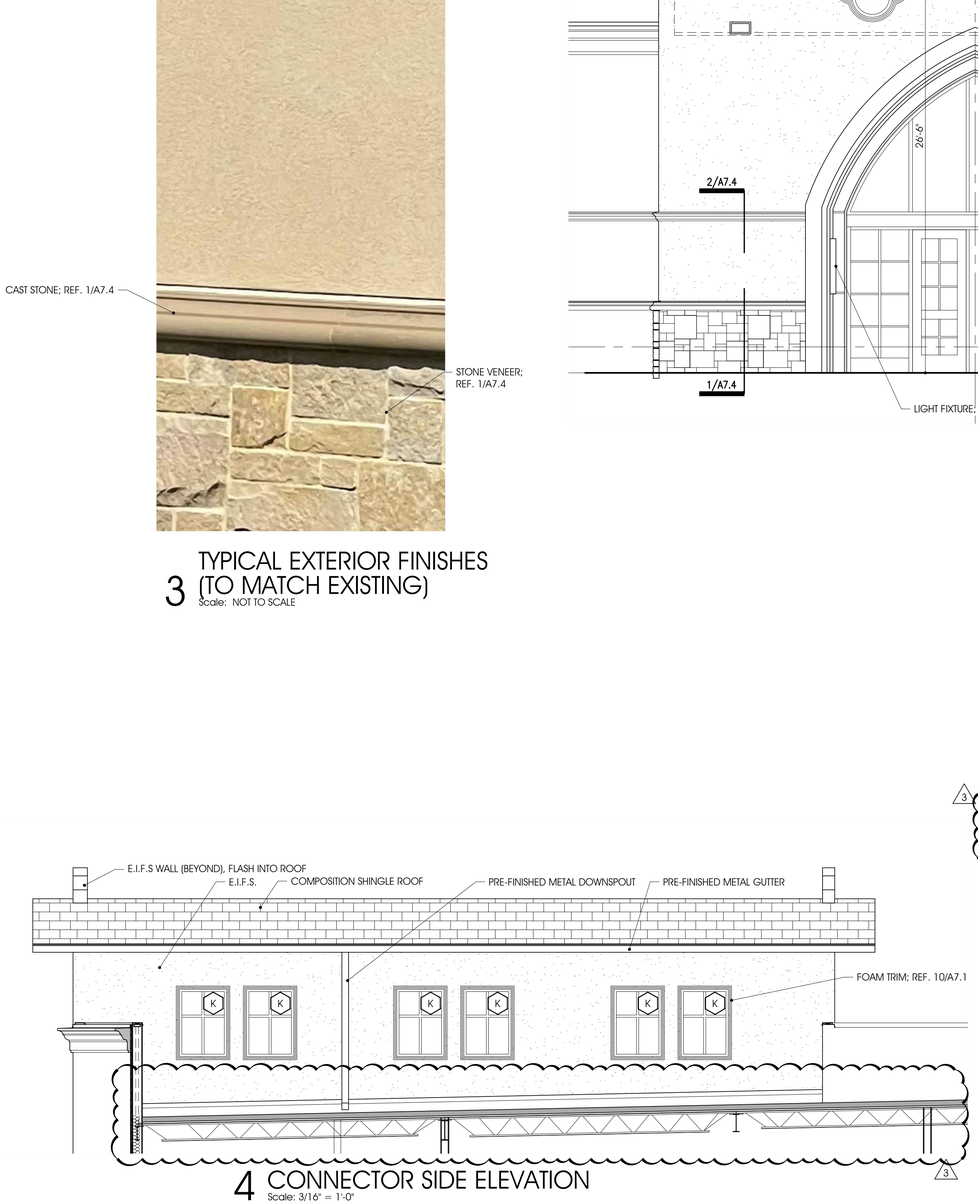
REGISTERED ARCHITECT SCOTT A. MARTSOLF STATE OF TEXAS
3-11-24

Sheet No.
A2.1

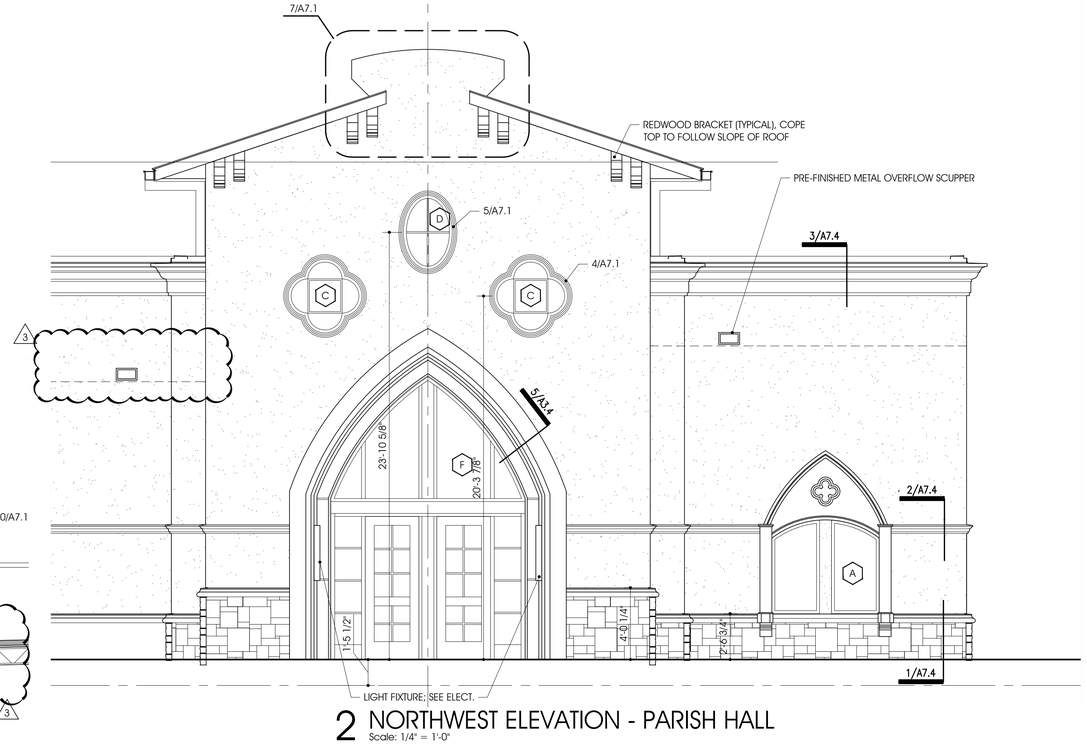
3 TYPICAL EXTERIOR FINISHES (TO MATCH EXISTING)
Scale: NOT TO SCALE



1 NORTH ELEVATION - CONNECTOR ENTRANCE
Scale: 1/4" = 1'-0"



4 CONNECTOR SIDE ELEVATION
Scale: 3/16" = 1'-0"



2 NORTHWEST ELEVATION - PARISH HALL
Scale: 1/4" = 1'-0"

0 1 2 3 4 6 8

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3 3/18/24 CITY COMMENTS	

PERMIT SET

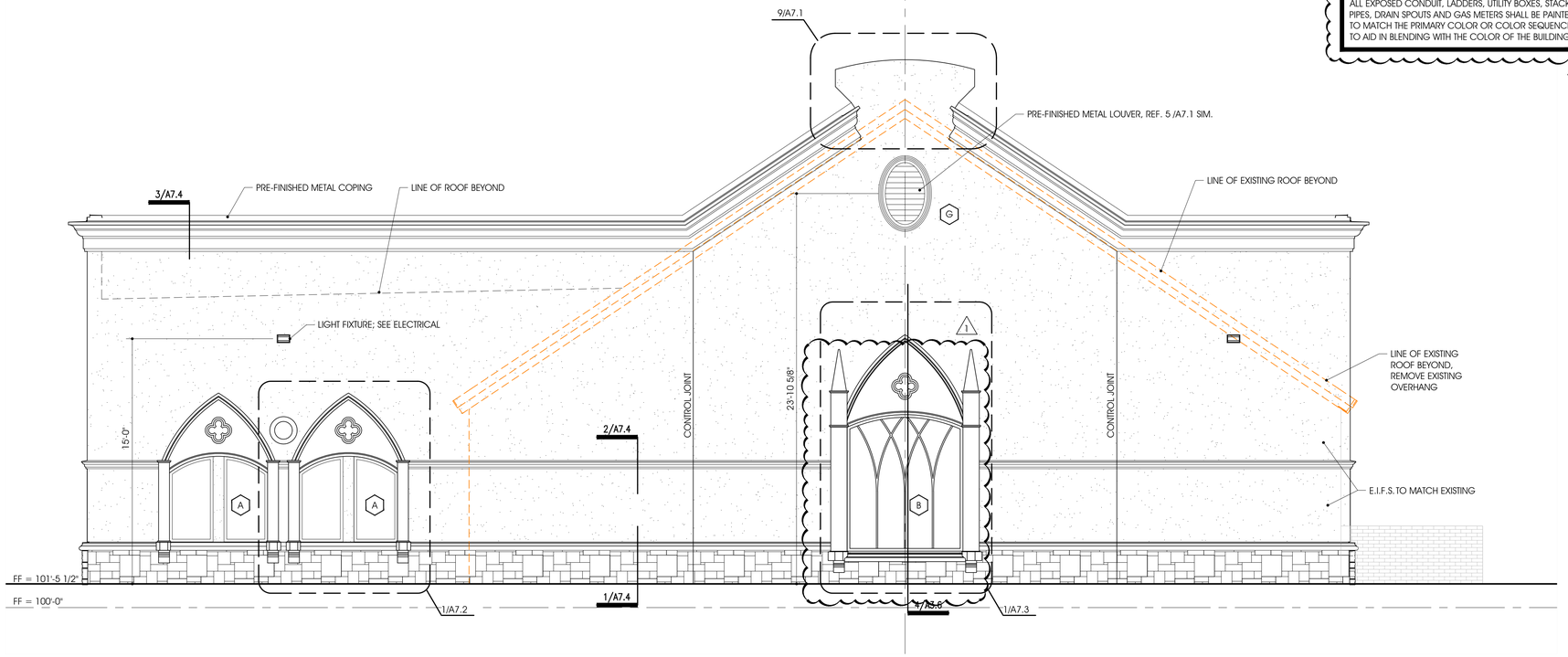
Drawing Title:
EXTERIOR ELEVATIONS

Project No.	Date:
2307	1/12/2024

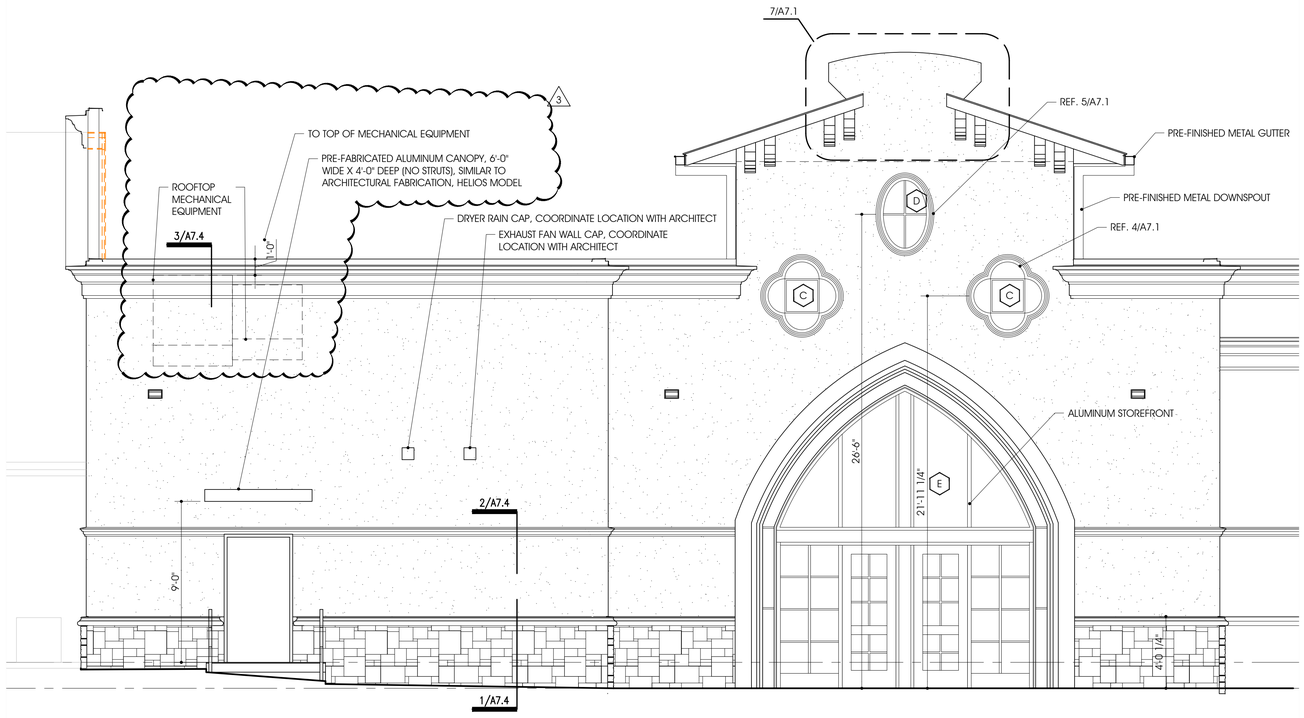
REGISTERED ARCHITECT SCOTT A. MARTSOLF STATE OF TEXAS
Scott Martsolf 3-11-24

Sheet No.
A3.1

NOTE:
ALL EXPOSED CONDUIT, LADDERS, UTILITY BOXES, STACK PIPES, DRAIN SPOUTS AND GAS METERS SHALL BE PAINTED TO MATCH THE PRIMARY COLOR OR COLOR SEQUENCE TO AID IN BLENDING WITH THE COLOR OF THE BUILDING.
3

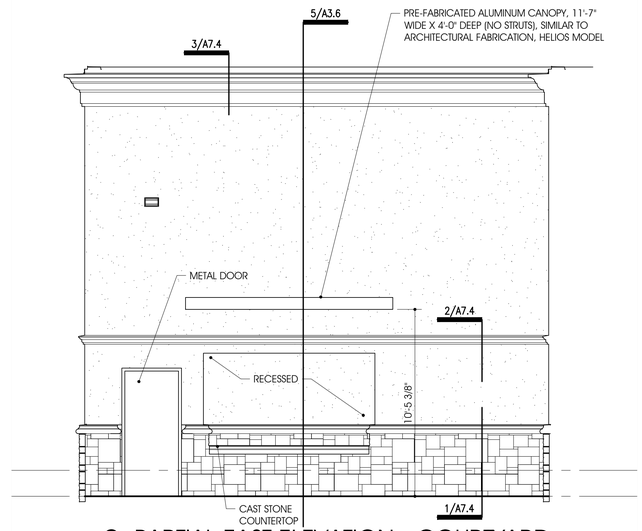


1 NORTH ELEVATION - WEST END
Scale: 1/4" = 1'-0"



2 SOUTH ELEVATION - CONNECTOR ENTRANCE
Scale: 1/4" = 1'-0"

0 1 2 3 4 6 8



3 PARTIAL EAST ELEVATION - COURTYARD
Scale: 1/4" = 1'-0"

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1	12/29/23 ADDENDUM #1
3	3/18/24 CITY COMMENTS

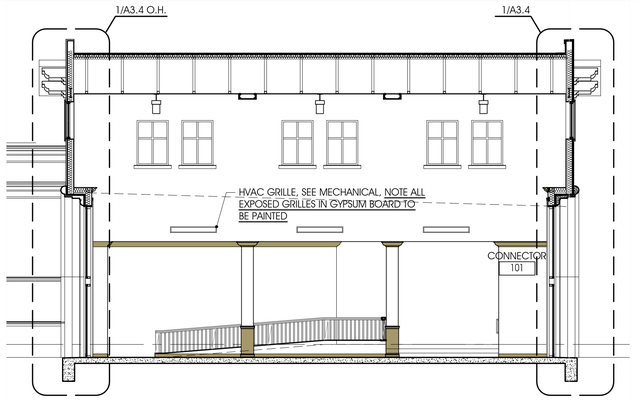
PERMIT SET

Drawing Title:
EXTERIOR ELEVATIONS

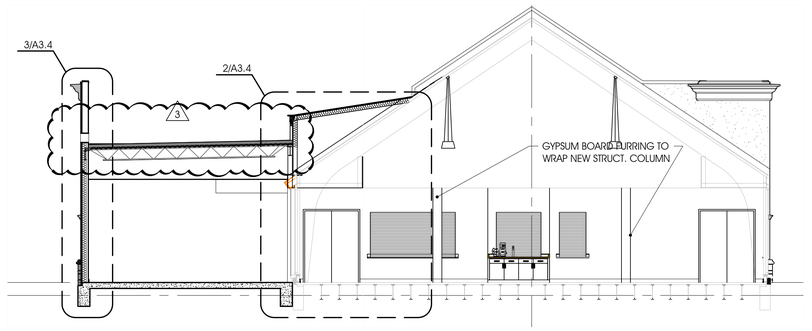
Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF STATE OF TEXAS
3-11-24

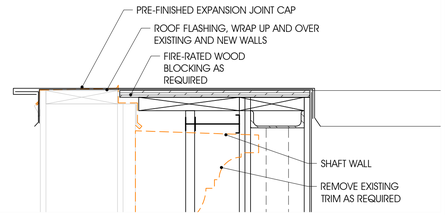
Sheet No.
A3.2



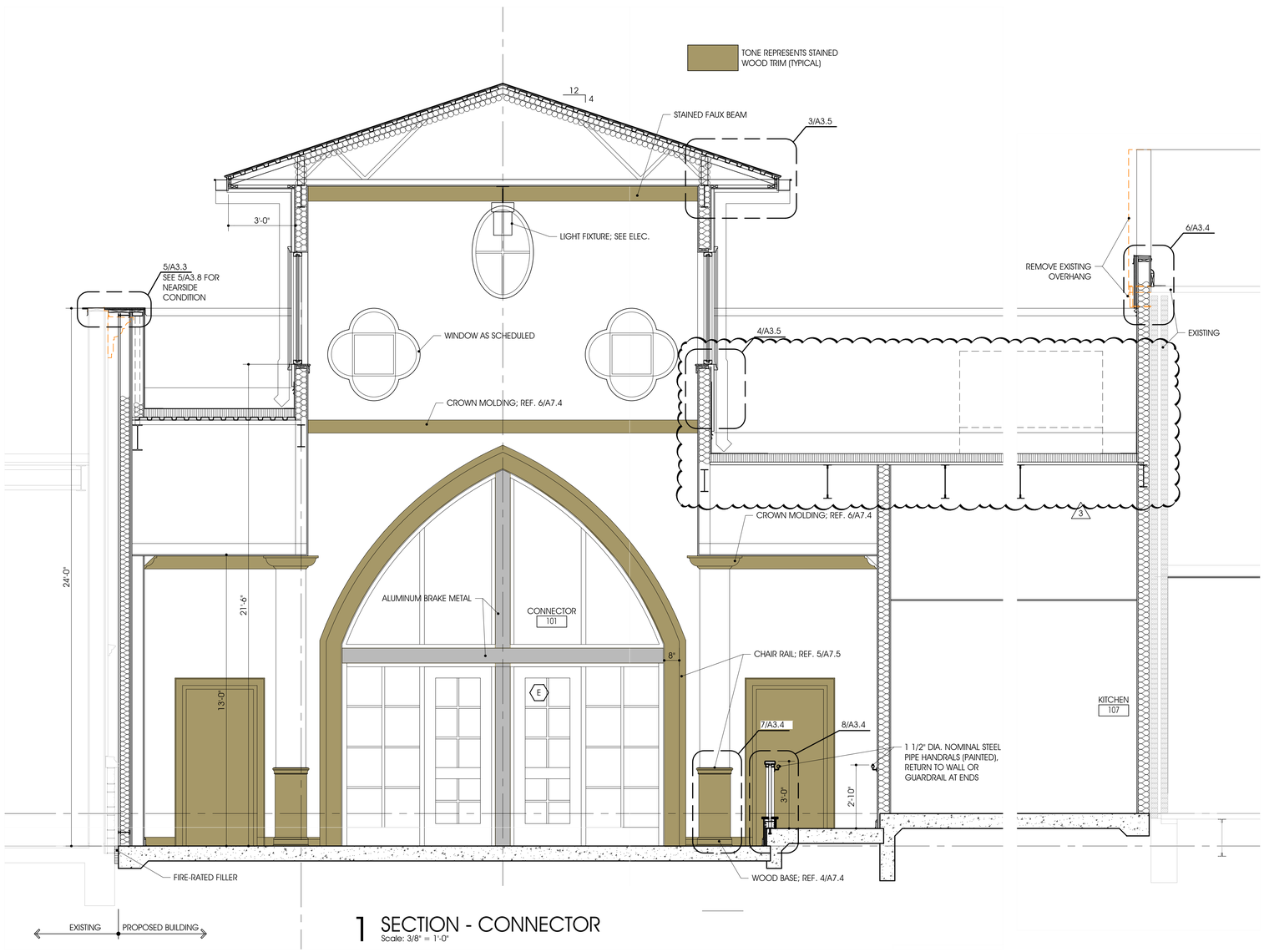
2 SECTION - NORTH INDOOR TERRACE
Scale: 1/8" = 1'-0"



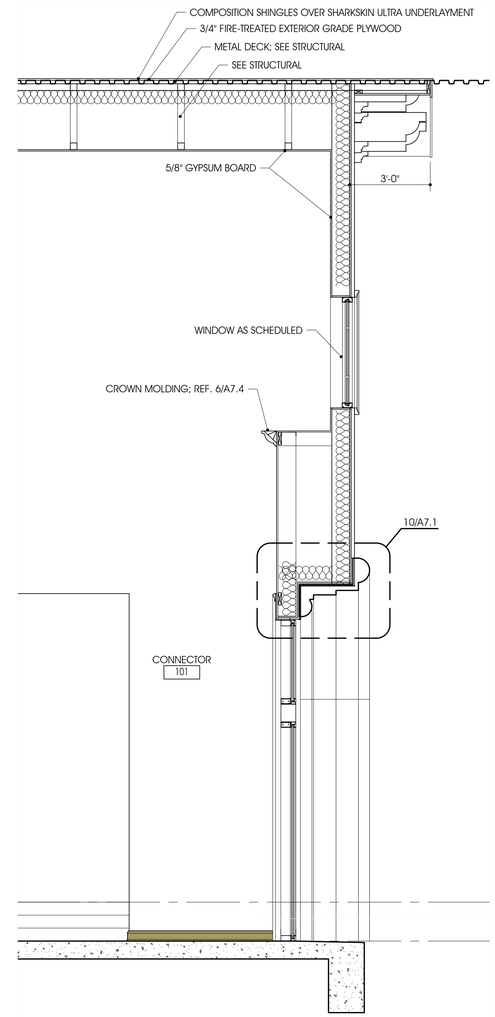
3 SECTION - CONNECTOR
Scale: 1/8" = 1'-0"



5 DETAIL
Scale: 1 1/2" = 1'-0"



1 SECTION - CONNECTOR
Scale: 3/8" = 1'-0"



4 SECTION - CONNECTOR ENTRANCE
Scale: 3/8" = 1'-0"

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3	3/18/24 CITY COMMENTS

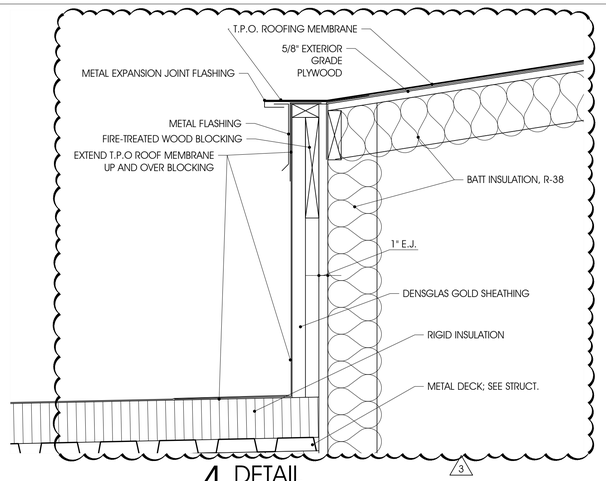
PERMIT SET

Drawing Title:
SECTIONS

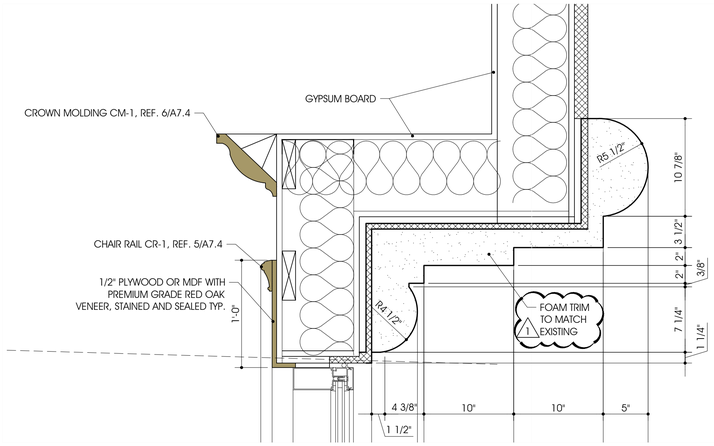
Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF STATE OF TEXAS
3-11-24

Sheet No.
A3.3



4 DETAIL
Scale: 1 1/2" = 1'-0"



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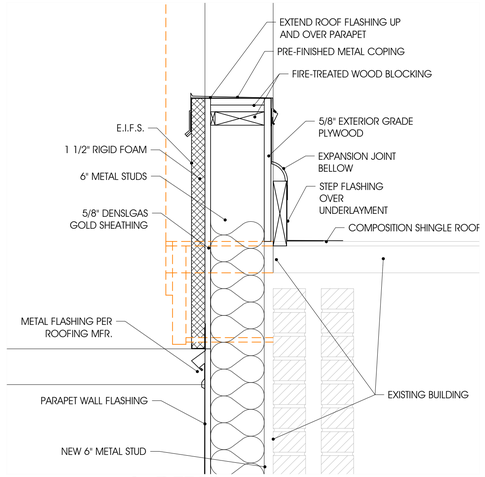

6 DETAIL
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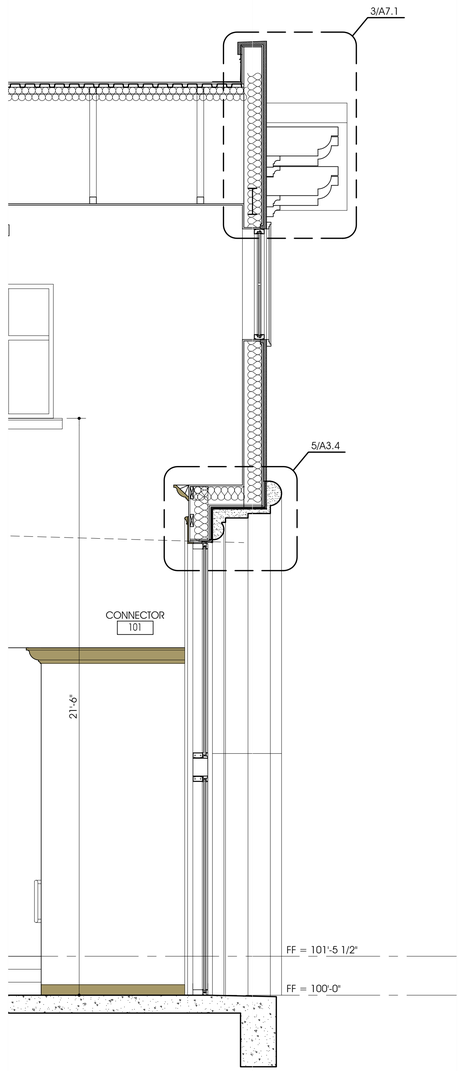
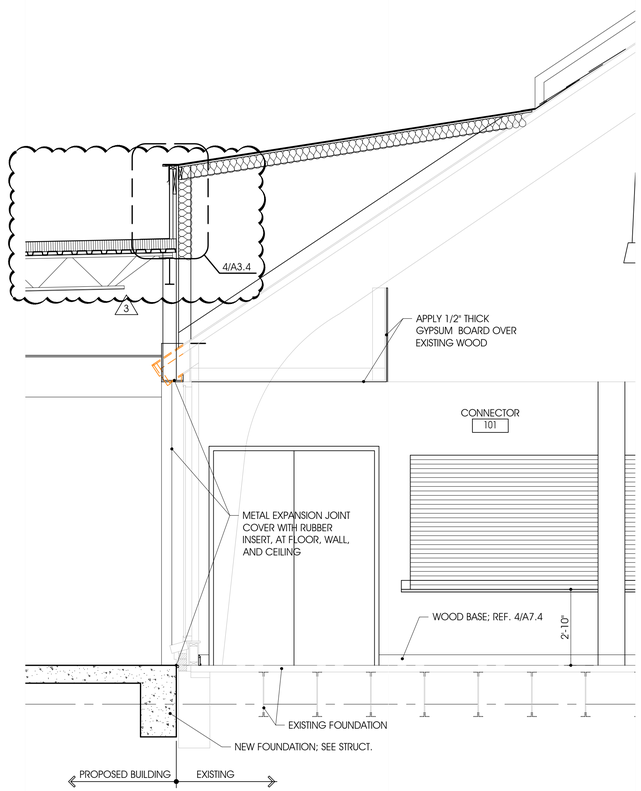


1 WALL SECTION
Scale: 3/8" = 1'-0"



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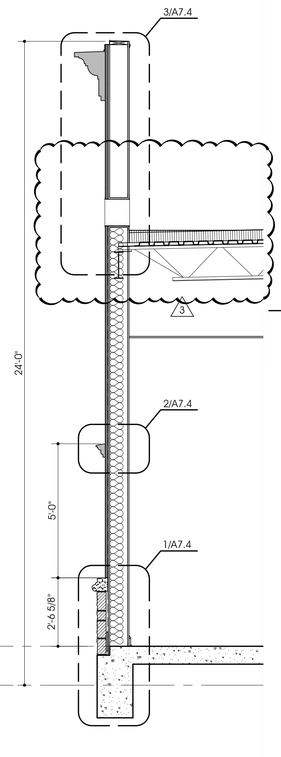
Scale: 3/8" = 1'-0"



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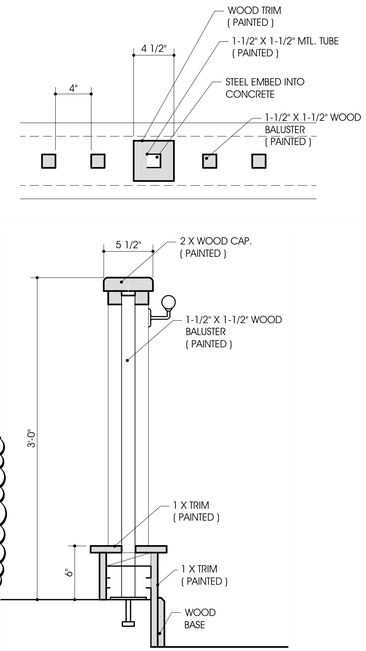
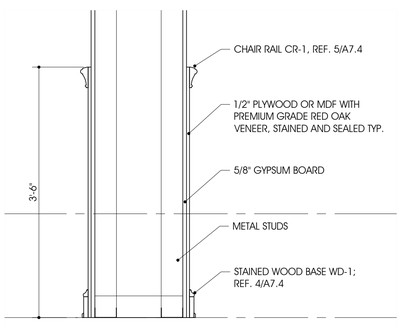


8 RAILING DETAIL
Scale: 1" = 1'-0"



7 CONNECTOR COLUMN DETAIL
Scale: 1" = 1'-0"

ARCHITECTURE
SCOTT MARTSOLF - ARCHITECT

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ST. JUDE CATHOLIC CHURCH

PARISH HALL REMODEL & CONNECTOR

500 E DALLAS ST.
MANSFIELD, TX 76063

1	12/29/23 ADDENDUM #1
3	3/18/24 CITY COMMENTS

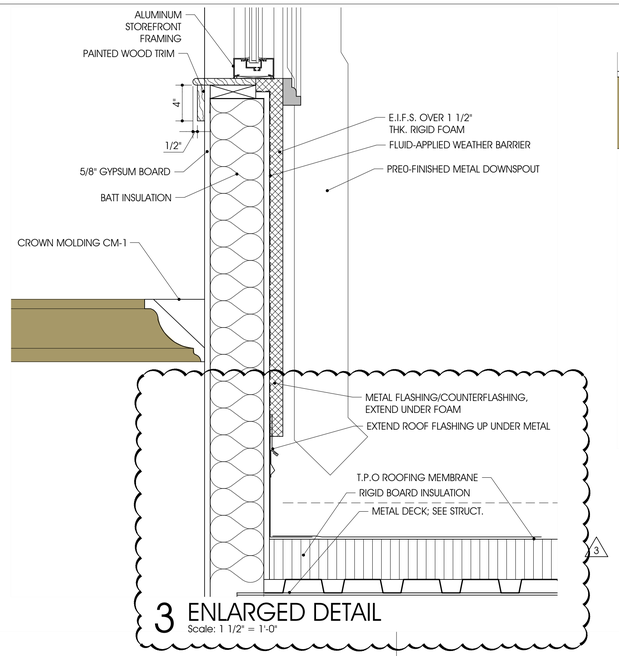
PERMIT SET

Drawing Title:
WALL SECTIONS

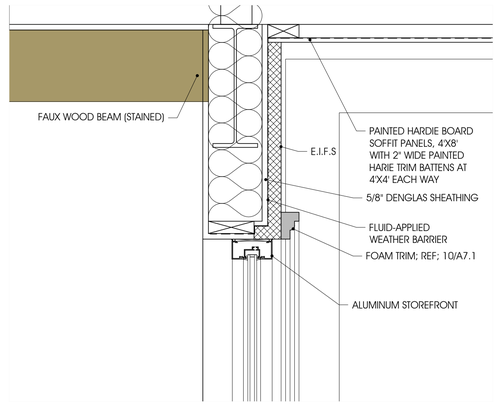
Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF
3-11-24

Sheet No.
A3.4



3 ENLARGED DETAIL
Scale: 1 1/2" = 1'-0"



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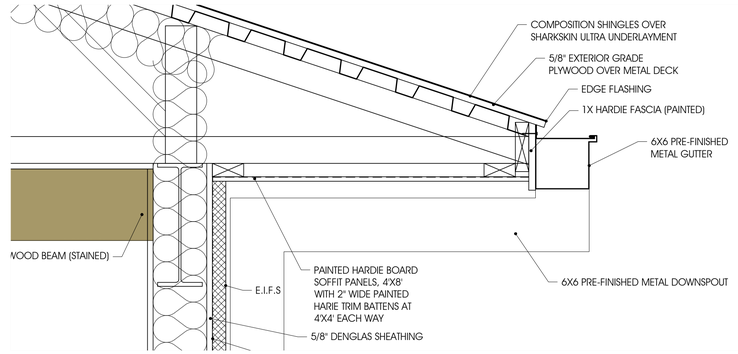
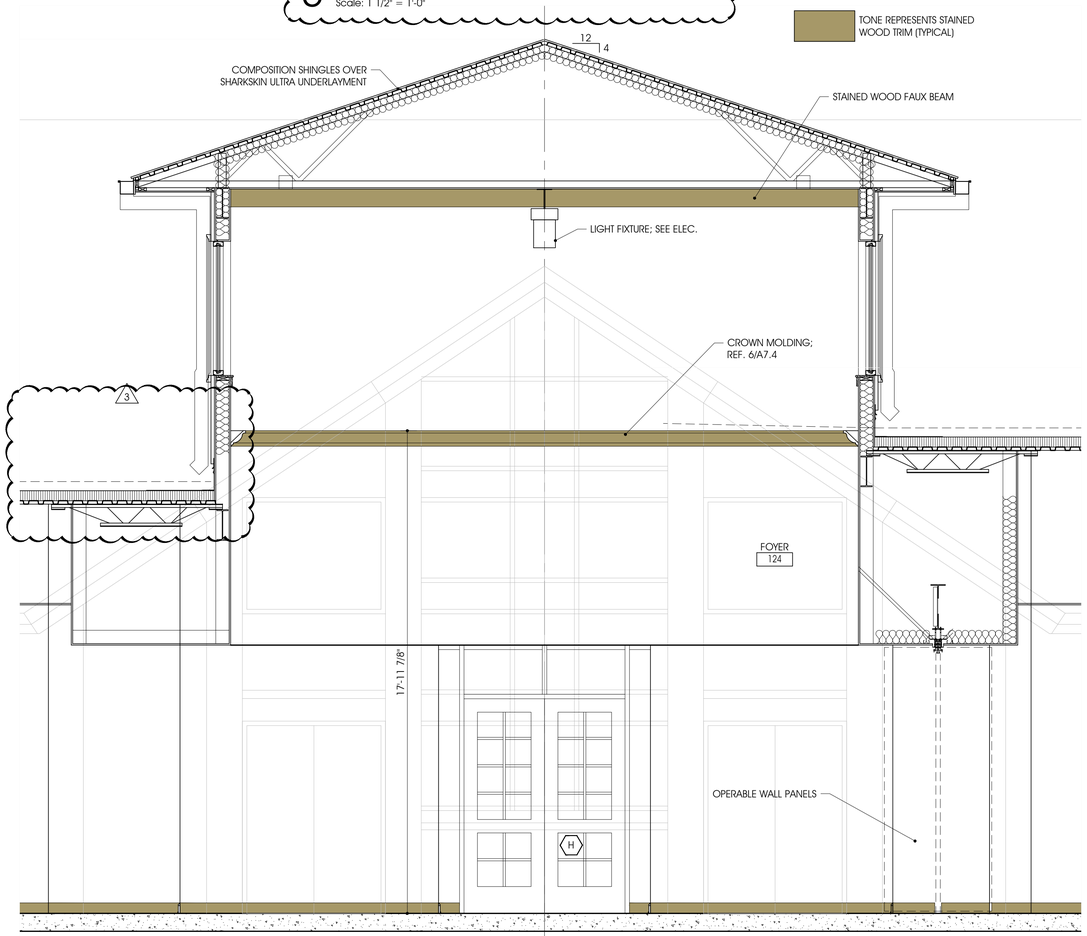
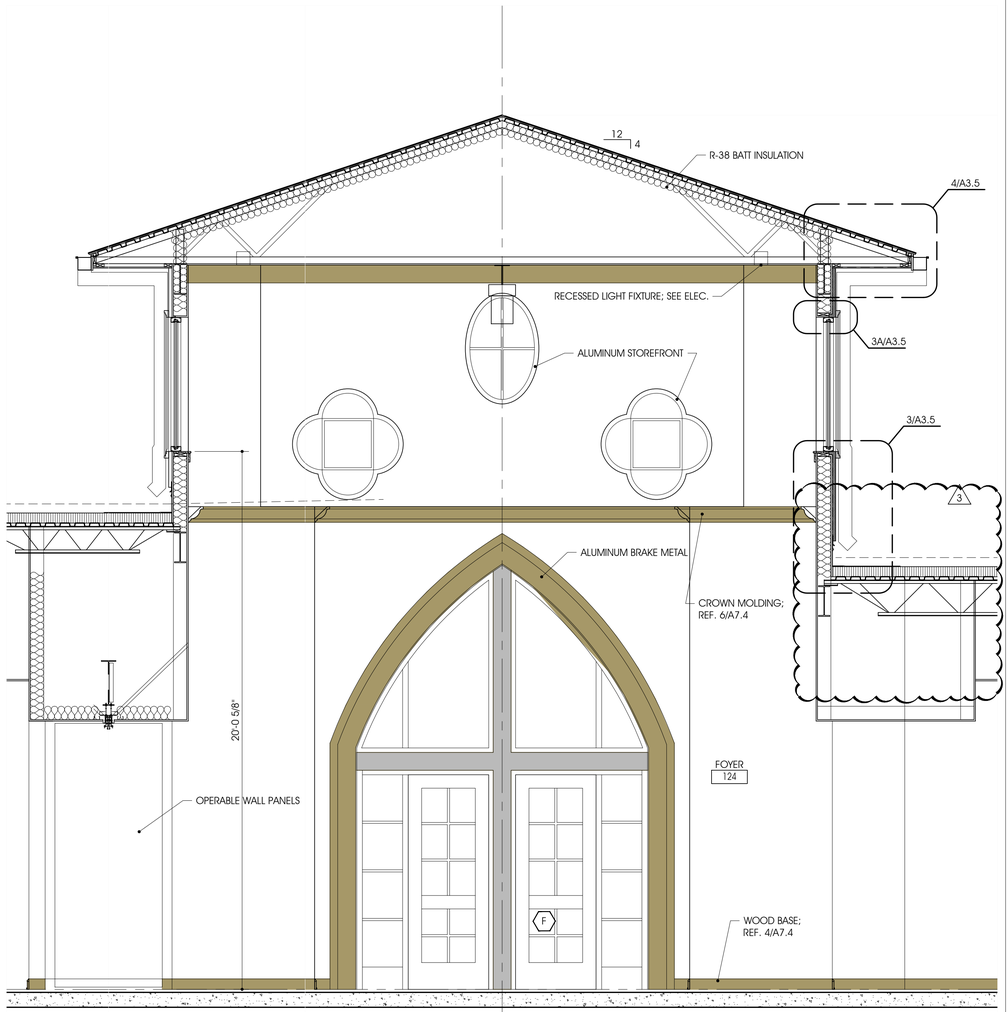


4 ENLARGED OVERHANG DETAIL
Scale: 1 1/2" = 1'-0"



1 SECTION - PARISH HALL ENTRANCE
Scale: 3/8" = 1'-0"



2 SECTION - PARISH HALL FOYER
Scale: 3/8" = 1'-0"

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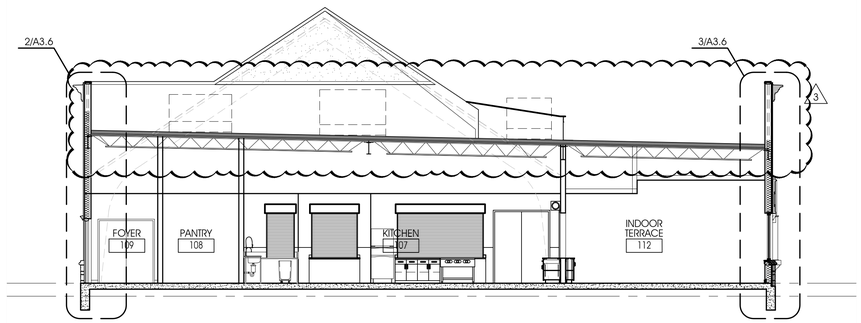
Drawing Title:
WALL SECTIONS

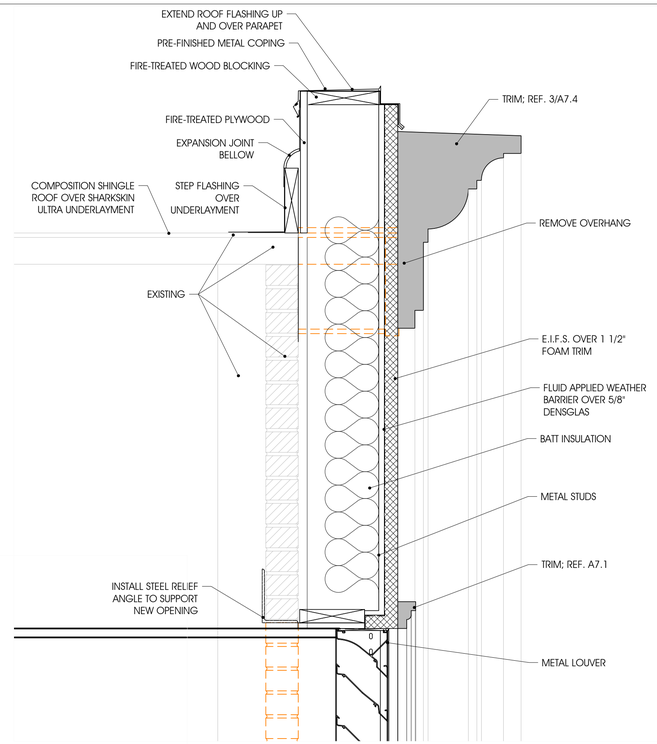
Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF
3-11-24

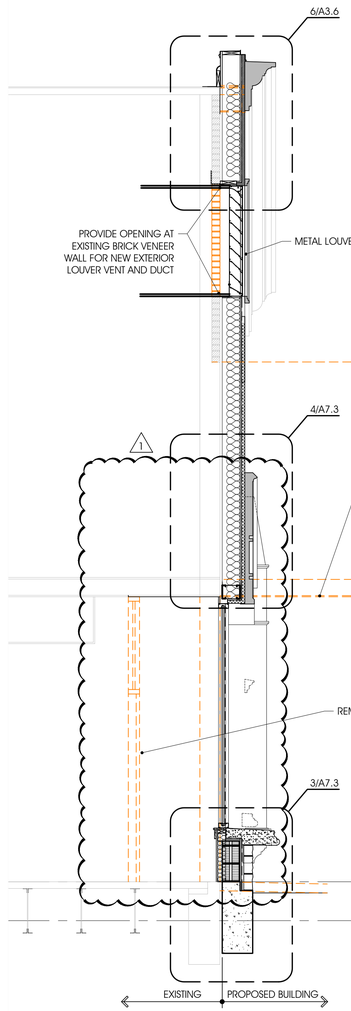
Sheet No.
A3.5



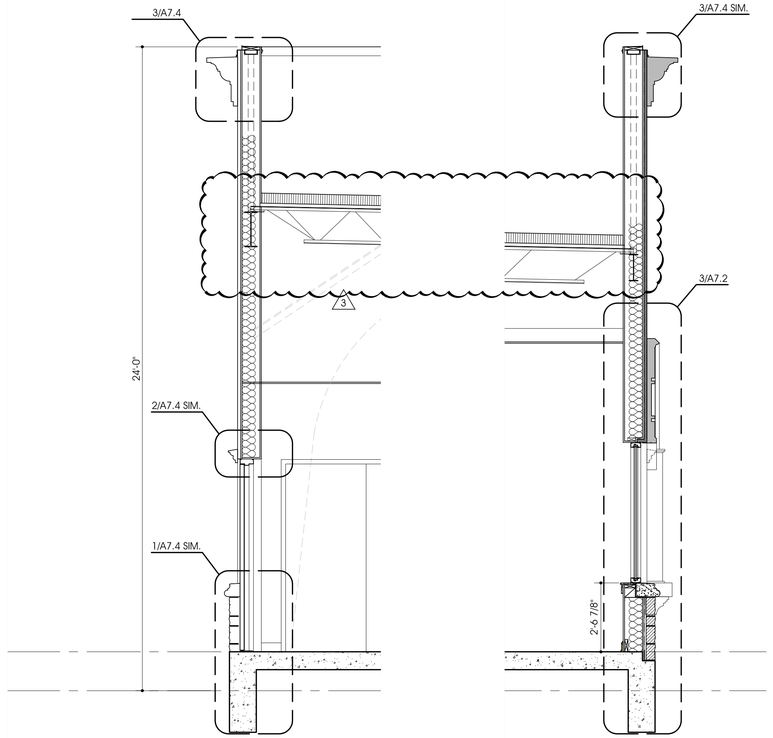
1 SECTION - PARISH HALL KITCHEN
Scale: 1/8" = 1'-0"



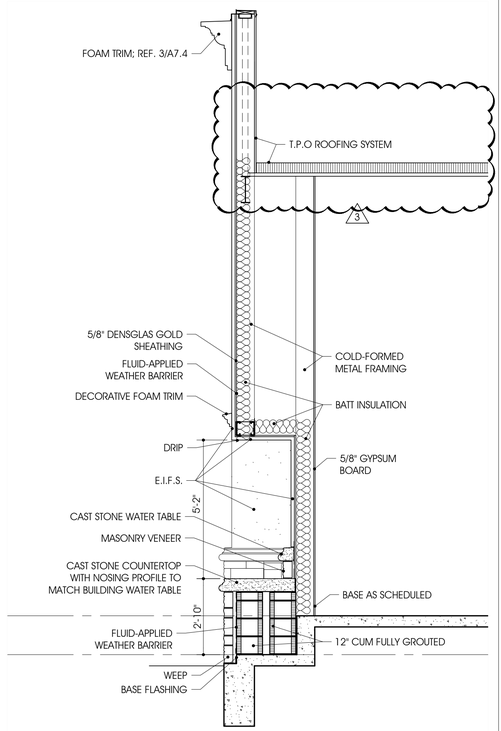
6 DETAIL
Scale: 1 1/2" = 1'-0"



4 SECTION - NEW NORTH EXTERIOR WINDOW WALL
Scale: 3/8" = 1'-0"



2 WALL SECTION
Scale: 3/8" = 1'-0"



5 SECTION
Scale: 3/8" = 1'-0"

3 WALL SECTION
Scale: 3/8" = 1'-0"

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MANSFIELD, TX 76063

1	12/29/23 ADDENDUM #1
3	3/18/24 CITY COMMENTS

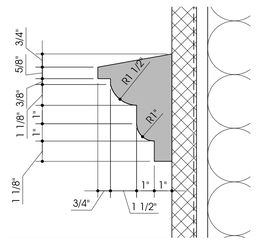
PERMIT SET

Drawing Title:
WALL SECTIONS

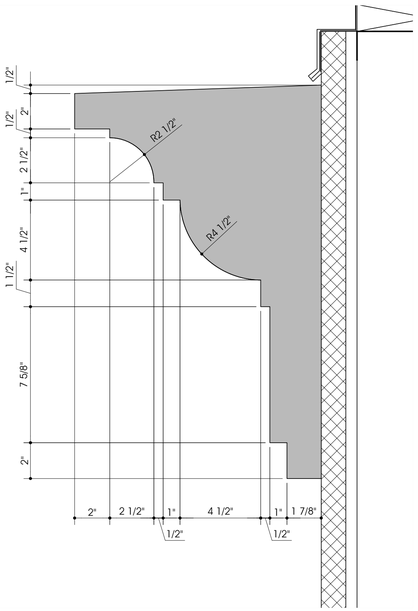
Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF
Scott Martsolf
3-11-24

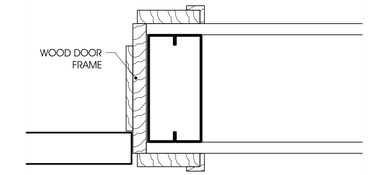
Sheet No.
A3.6



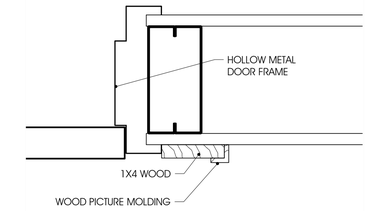
8 TRIM DETAIL
Scale: 3" = 1'-0"



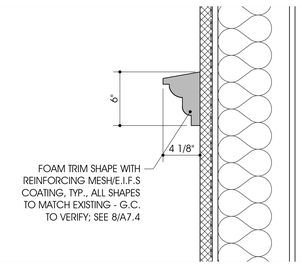
9 TRIM DETAIL
Scale: 3" = 1'-0"



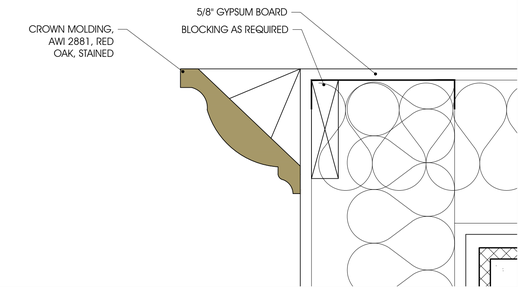
7B DOOR CASING DETAIL - WOOD JAMB
Scale: 3" = 1'-0"



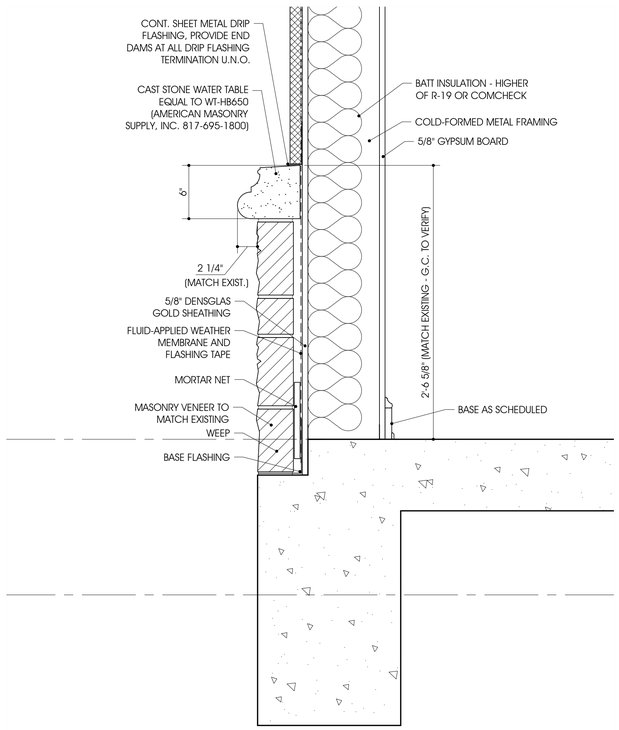
7A DOOR CASING DETAIL - METAL JAMB
Scale: 3" = 1'-0"



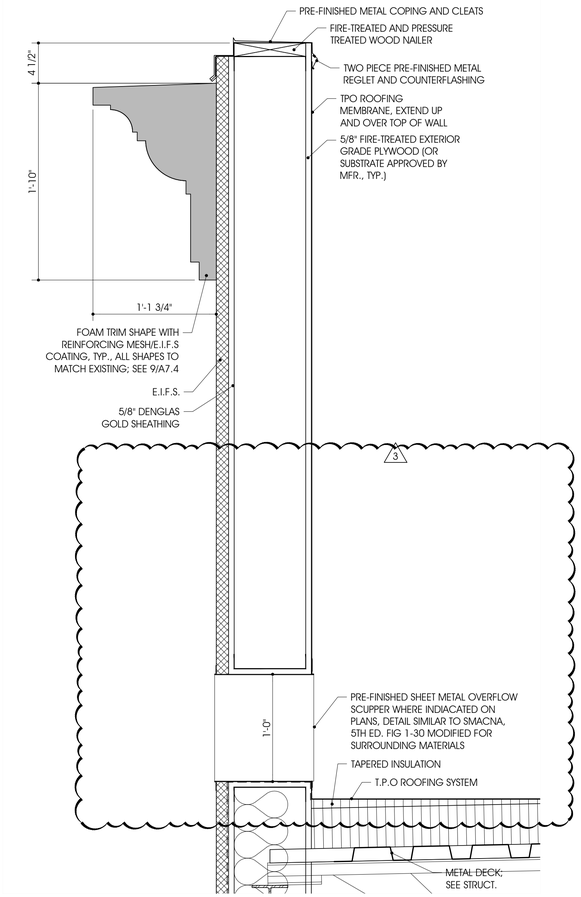
2 TRIM DETAIL
Scale: 1 1/2" = 1'-0"



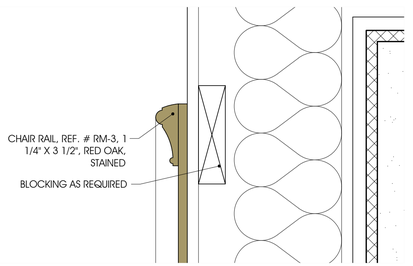
6 WOOD CROWN MOLDING - CM-1
Scale: 3" = 1'-0"



1 GRADE LEVEL DETAIL
Scale: 1 1/2" = 1'-0"



3 PARAPET CAP DETAIL
Scale: 1 1/2" = 1'-0"



5 WOOD CHAIR RAIL - CR-1
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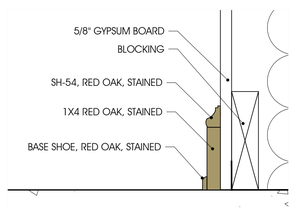
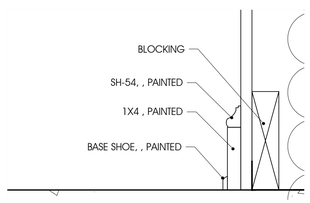


4 WOOD BASE - WD1
Scale: 3" = 1'-0"



4A WOOD BASE - WD2
Scale: 3" = 1'-0"

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ST. JUDE CATHOLIC CHURCH

PARISH HALL REMODEL & CONNECTOR

500 E DALLAS ST.
MANSFIELD, TX 76063

3	3/18/24 CITY COMMENTS

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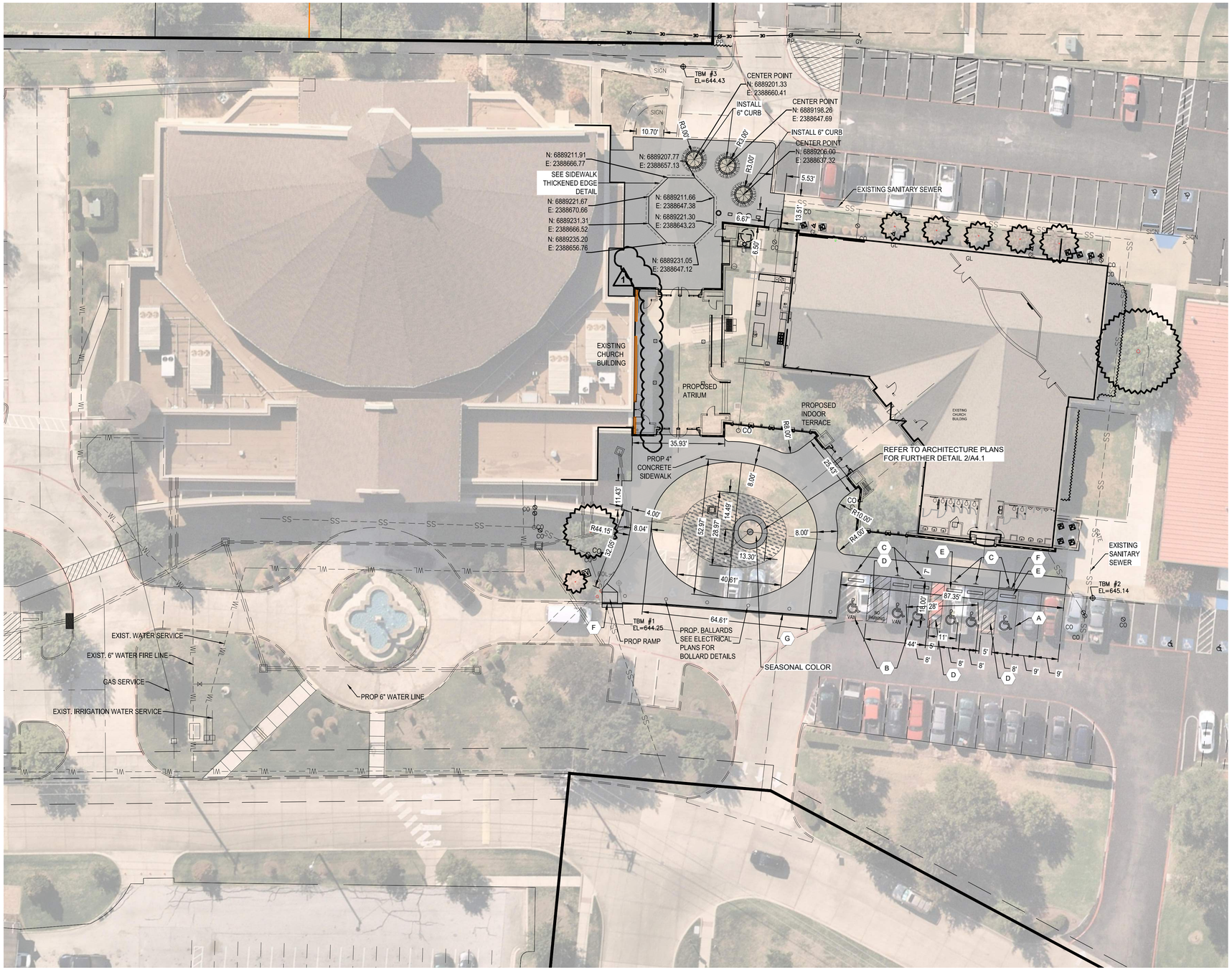
Drawing Title:
DETAILS

Project No.	Date:
2307	1/12/2024

REGISTERED ARCHITECT SCOTT A. MARTSOLF STATE OF TEXAS
3-11-24

Sheet No.
A7.4



0 20 40 60

GRAPHIC SCALE: 1" = 20'-0" (22"x34")
1" = 40'-0" (11"x17")

WARNING TO CONTRACTOR
CALL 1-800-344-8377 (TEXAS 811) OR OTHER UTILITY LOCATION SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. BAIRD HAMPTON AND BROWN, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS ON ALL DRAWINGS.

MIN. 4" THICK REINFORCED CONCRETE PAVEMENT 3600 PSI CONCRETE PAVING W/ #3 REBAR AT 24" O.C.E.W ON 2" SAND BASE

BOLLARDS (PER ELECTRICAL PLANS)

PLAN KEY NOTES

- (A) 4" PARKING STALL STRIPE (TYP)
- (B) ADA PARKING SPOT PAINTED HANDICAP SYMBOL
- (C) HANDICAP SIGNAGE
- (D) 4" STRIPED HATCHING (TYP) (SEE DETAILS)
- (E) CONCRETE WHEEL STOP (TYP) (SEE DETAILS)
- (F) 6" CURB LAYDOWN IN 6 LF.
- (G) FIRE LANE STRIPING:

BENCHMARKS

TBM #1 = TO BE DEMO

TBM #2 = "X" CUT ON CONCRETE, NORTHWEST OF SITE AT CURB OF EX. PARKING SPACES.
ELEV. = 645.13
N = 6889294.28
E = 2388449.07

TBM #3 = "X" CUT ON CONCRETE, SOUTH OF SITE AT THE FLUME
ELEV. = 644.43
N = 6889170.03
E = 2388679.05

1 REMOVE STORM DRAIN FROM UNDER BUILDING 03/08/2024

BAIRD, HAMPTON & BROWN
engineering and surveying

949 Hilltop Drive, Weatherford, TX 76086
mail@bhbinc.com • 817.596.7575 • bhbinc.com
TBPELS Firm #44, #10194146

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ST. JUDE CATHOLIC CHURCH

PARISH HALL REMODEL & CONNECTOR

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PERMIT SET

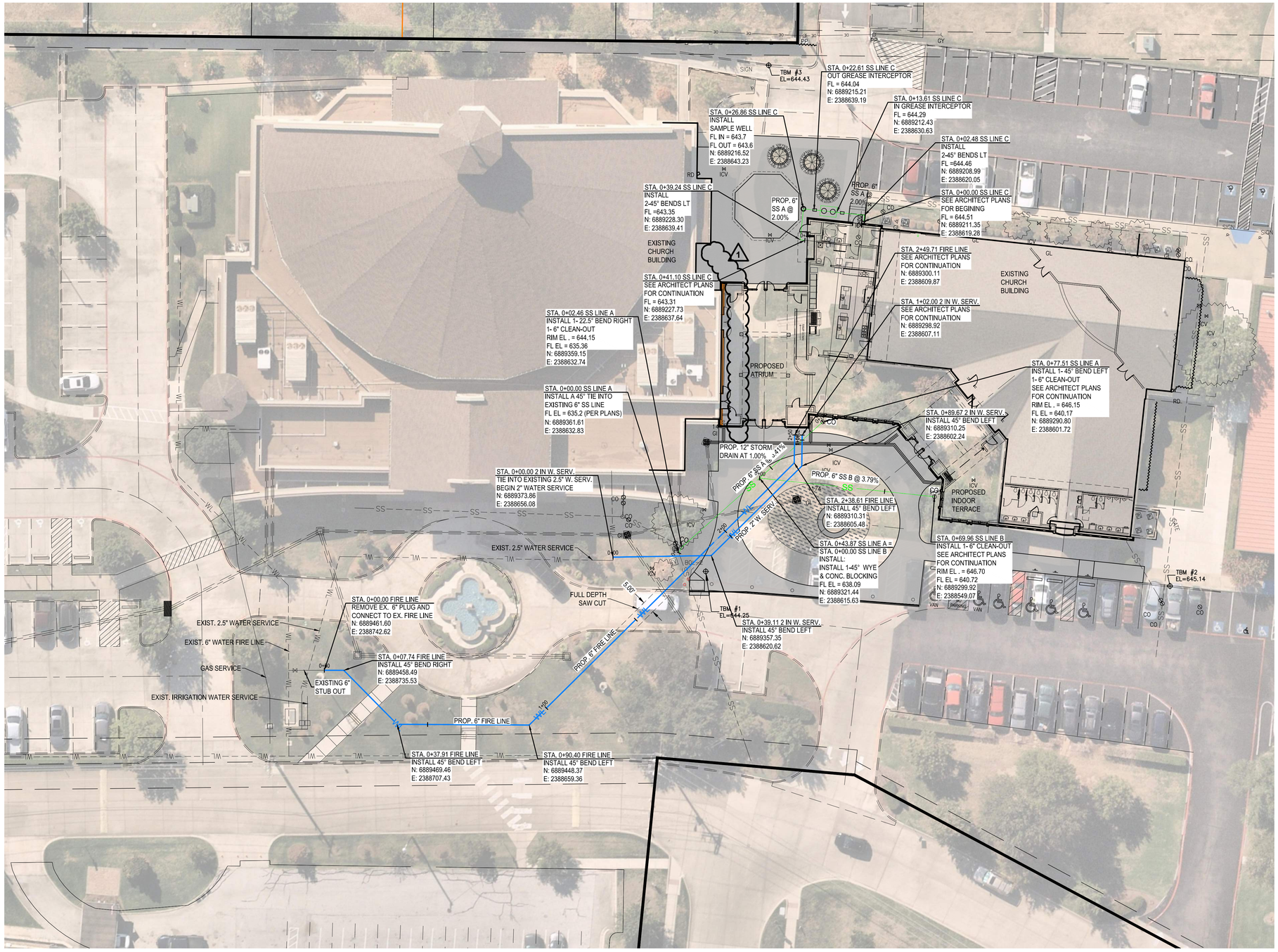
Drawing Title:
SITE PLAN

Project No.	Date:
2307	1/12/2024

STATE OF TEXAS
OTTIS LEE, III
65544
REGISTERED PROFESSIONAL ENGINEER
1/16/24

Sheet No.
C2.1

F:\JOB\2023\850\046 ST. JUDE PARISH HALL\01 DESIGN & DRAFTING\02 CIVIL\2023.850.046 CD-SITE PLAN.DWG 2024/03/08



0 20 40 60

GRAPHIC SCALE: 1" = 20'-0" (22"x34")
1" = 40'-0" (11"x17")

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SS — PROP. SANITARY SEWER LINE
WL — PROP. FIRE LINE
STORM DRAIN
CO 1-6" CLEANOUT
YARD INLET

BENCHMARKS

TBM #1 = TO BE DEMO

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ELEV. = 645.13
N = 6889294.28
E = 2388449.07

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E = 2388679.05

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Drawing Title:
UTILITY PLAN

Project No.	Date:
2307	1/12/2024

STATE OF TEXAS
OTTIS LEE, III
65544
REGISTERED
PROFESSIONAL ENGINEER
1/16/24

Sheet No.
C4.1

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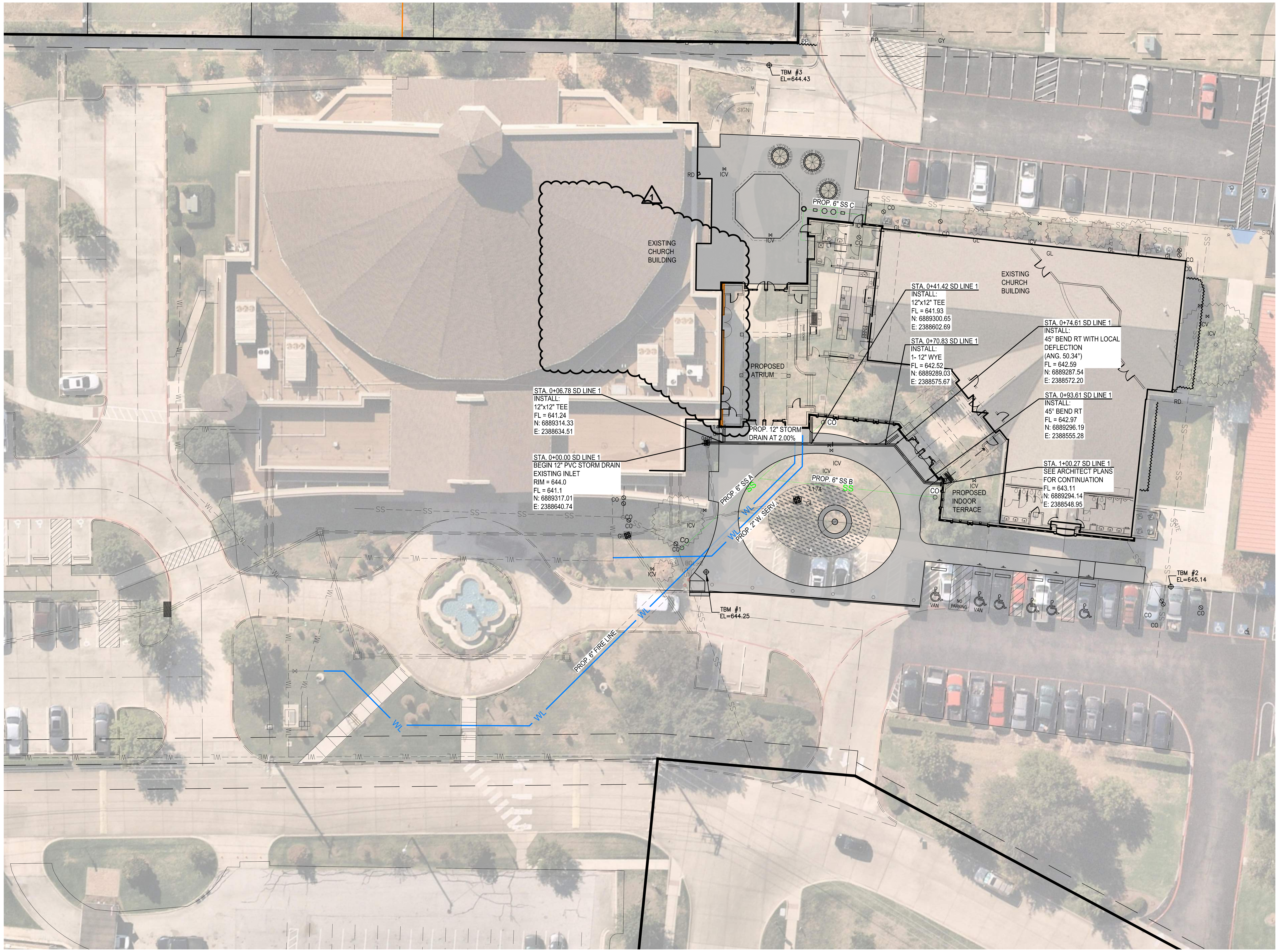

0 20 40 60

GRAPHIC SCALE: 1" = 20'-0" (22"x34")
1" = 40'-0" (11"x17")

SS — PROP. SANITARY SEWER LINE
WL — PROP. FIRE LINE
STORM DRAIN
CO 1-6" CLEANOUT
YARD INLET

BENCHMARKS

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N = 6889170.03
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1 REMOVE STORM DRAIN FROM UNDER BUILDING 03/08/2024

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TBPELS Firm #44, #10194146

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Phone: (817) 820-0005

ST. JUDE CATHOLIC CHURCH

PARISH HALL REMODEL & CONNECTOR

500 E DALLAS ST.
MANSFIELD, TX 76063

PERMIT SET

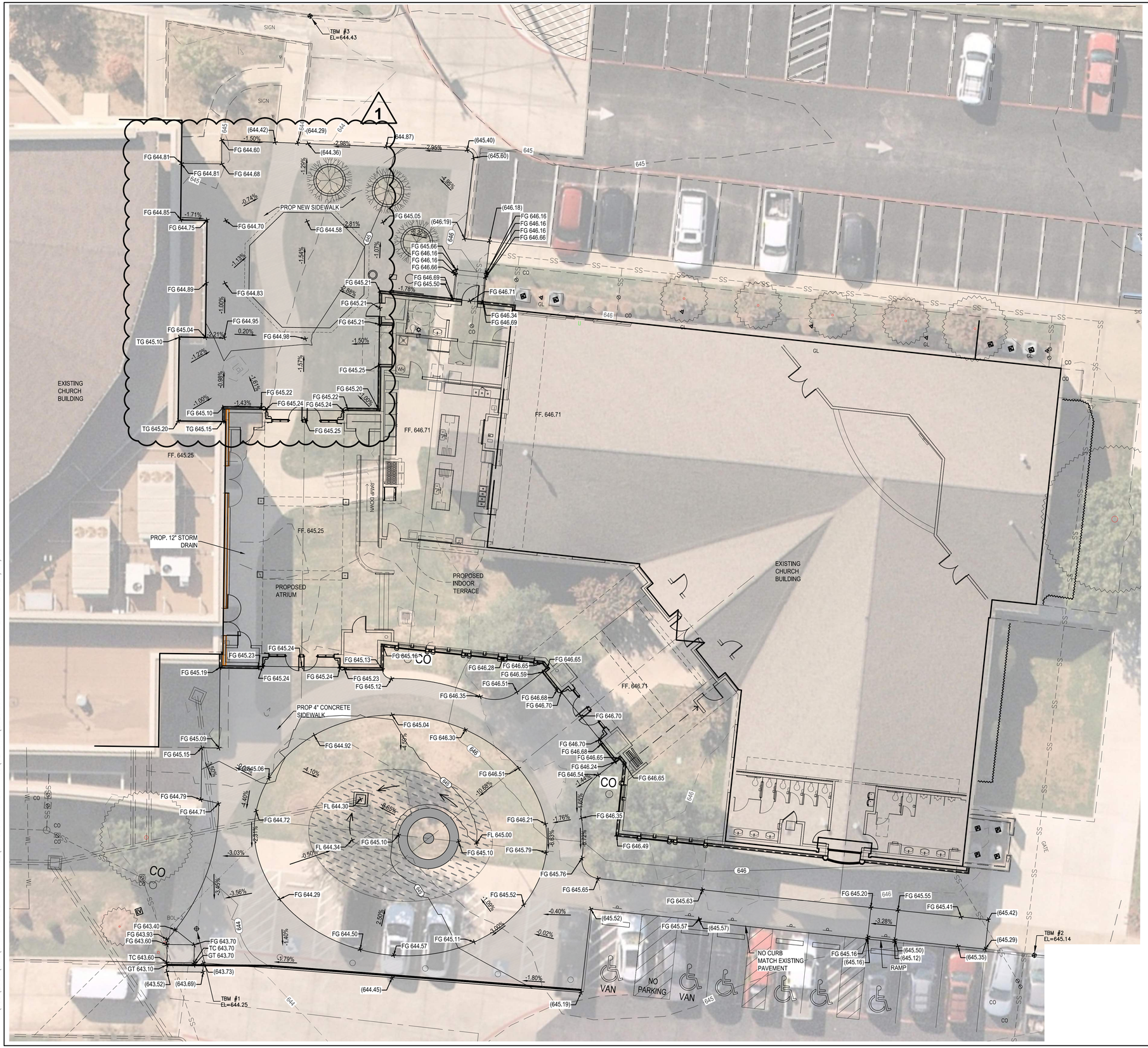
Drawing Title:
STORM DRAIN PLAN

Project No.	Date:
2307	1/12/2024

Sheet No.
C5.1

STATE OF TEXAS OTTIS LEE, III 65544 REGISTERED PROFESSIONAL ENGINEER 1/16/24

F:\JOB\2023\850\046 ST JUDE PARISH HALL\01 DESIGN & DRAFTING\02 CIVIL\2023.850.046 CD-STORM DRAIN PLAN.DWG 2024/03/08



0 20 40 60

GRAPHIC SCALE: 1" = 20'-0" (24"x36")
1" = 40'-0" (12"x18")

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MIN. 4" THICK REINFORCED CONCRETE PAVEMENT 3600 PSI CONCRETE PAVING W/ #3 REBAR AT 24" O.C.E.W ON 2" SAND BASE

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1 REVISE GRADING 03/08/2024

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engineering and surveying

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PARISH HALL REMODEL & CONNECTOR

500 E DALLAS ST.
MANSFIELD, TX 76063

PERMIT SET

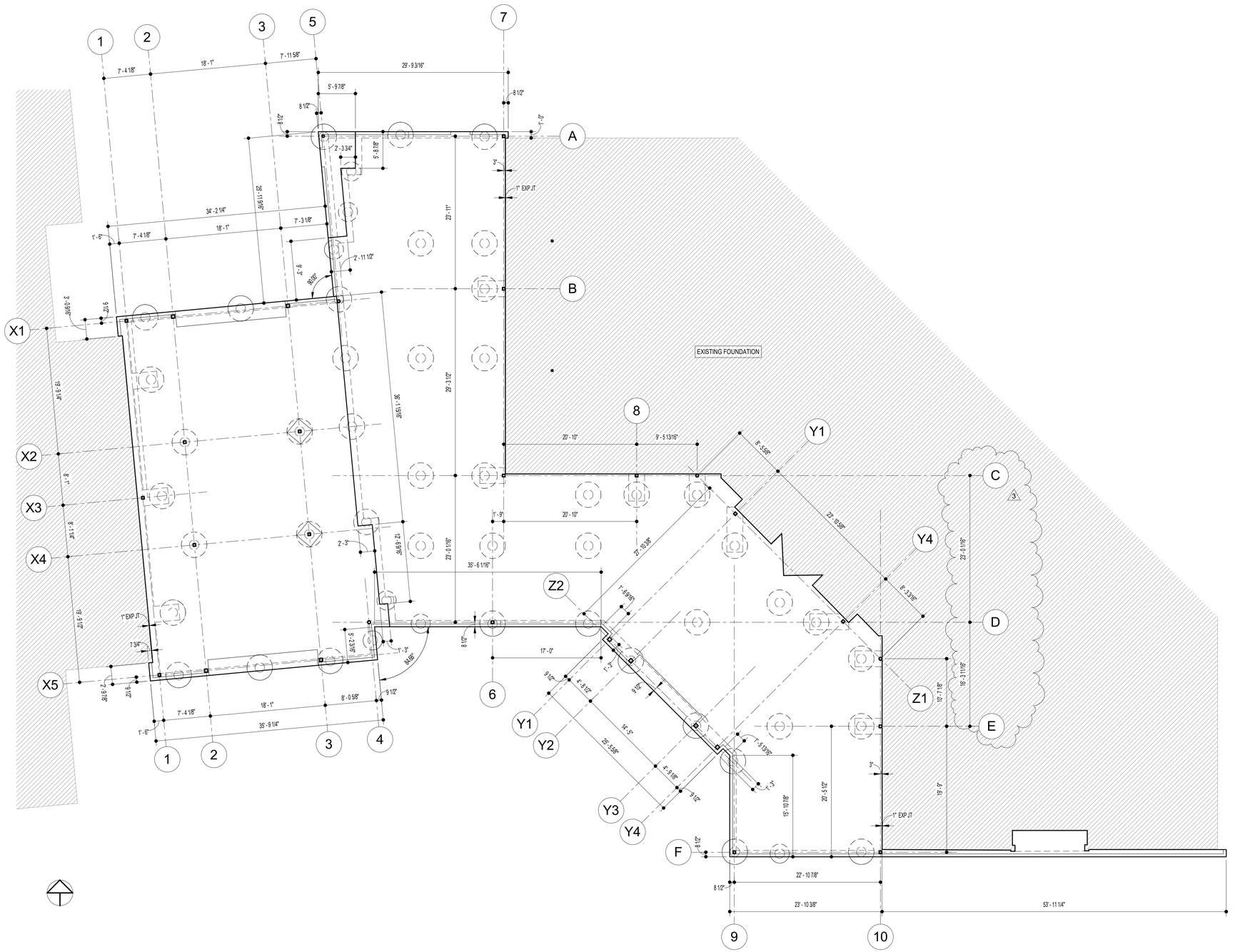
Drawing Title:
GRADING PLAN

Project No.	Date:
2307	1/12/2024

STATE OF TEXAS
OTTIS LEE, III
65544
REGISTERED PROFESSIONAL ENGINEER
1/16/24

Sheet No.
C6.1

F:\JOBS\2023\850\046 ST. JUDE PARISH HALL\01 DESIGN & DRAFTING\02 CIVIL\2023.850.046 CD-GRADING PLAN.DWG 2024/03/08



1 FOUNDATION DIMENSION PLAN
1/8" = 1'-0"

ARCHITECTURE
SCOTT MARTSOLF - ARCHITECT

815 Daggett Avenue
Fort Worth, Texas 76104

Phone: (817) 820-0005

ST. JUDE CATHOLIC CHURCH

PARISH HALL REMODEL & CONNECTOR BUILDING

500 E DALLAS ST.
MANSFIELD, TX 76063

HnH ENGINEERING, INC.
105 Sproles Drive Fort Worth, Texas 76126
TBPE Firm No. F-13825 (817) 713-4977

3	REVISION 3, CITY COMMENTS	4/01/2024

Drawing Title:
FOUNDATION DIMENSION PLAN

Project No.	Date:
2023.297	1/12/2024

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92824
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PROFESSIONAL ENGINEER
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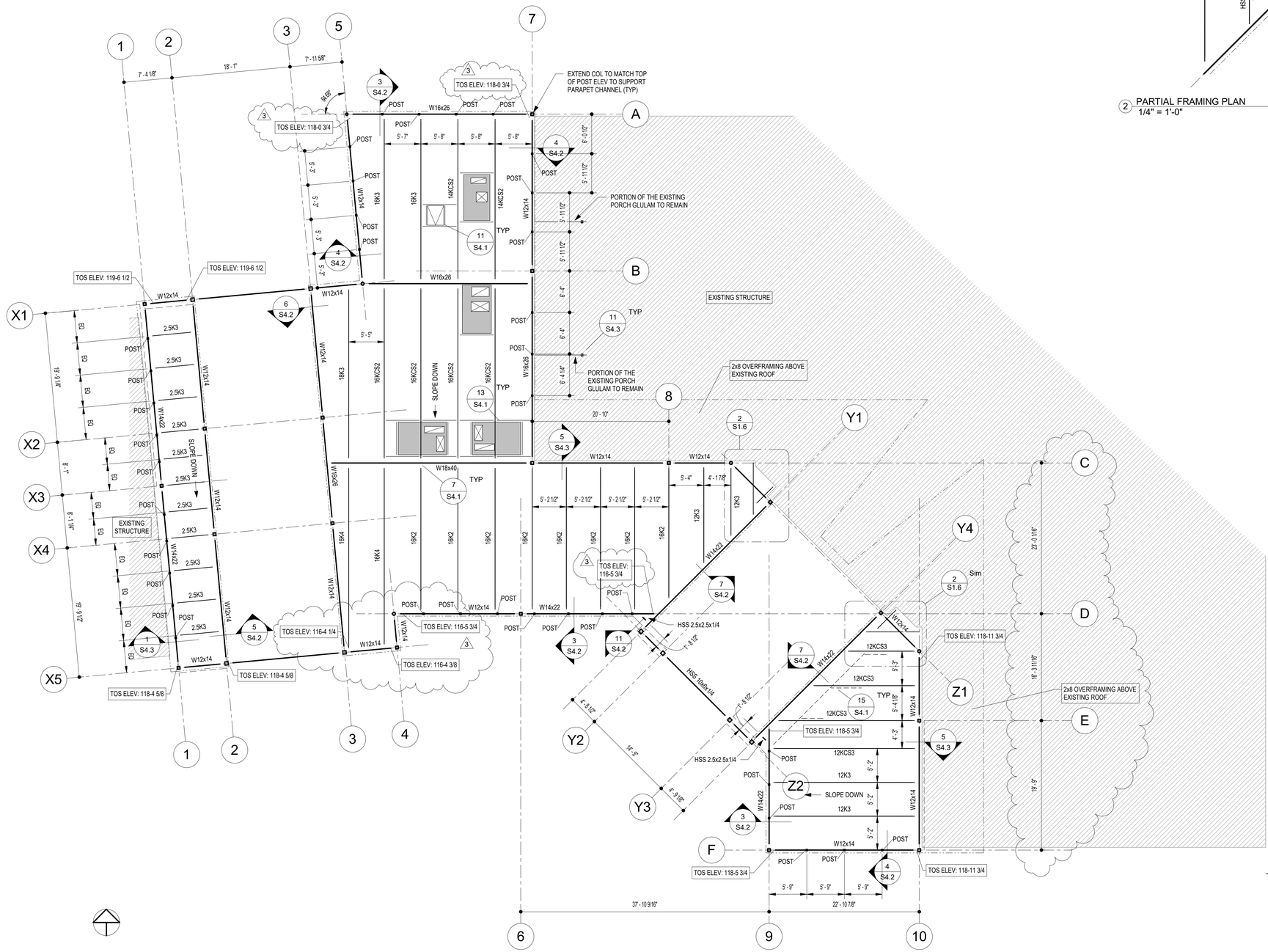
Sheet No.
S1.3



② PARTIAL FRAMING PLAN
1/4" = 1'-0"

① ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES - ROOF FRAMING

1. STEEL JOISTS SHALL BE CENTERED ON COLUMN LINES AND EQUALLY SPACED BETWEEN UNLESS NOTED OTHERWISE.
2. SEE GENERAL NOTES FOR METAL DECK MATERIAL AND CONNECTION SPECIFICATIONS.

LEGEND

125-0	INDICATES TOP OF STRUCTURAL STEEL (BOTTOM OF METAL DECK) RELATIVE TO 100-0

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3 REVISION 3, CITY COMMENTS 4/01/2024

Drawing Title:
ROOF FRAMING PLAN

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2023.297

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1/12/2024

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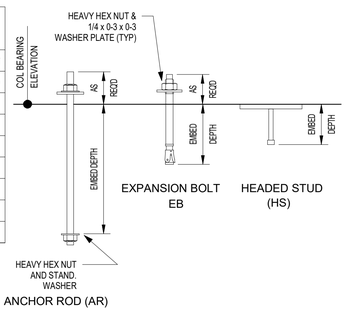
S1.6

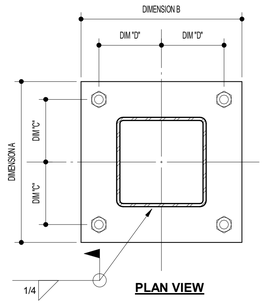
COLUMN, BASE PLATE, & ANCHOR BOLT SCHEDULE

COL. MARK	COLUMN SIZE	BASE PLATE DIMENSIONS (INCHES)						ANCHOR ROD/HEADED STUD/EXP BOLT		
		A	B	t	C	D	DETAIL	NO./TYPE	DIA	EMBED
C1	HSS5x5x1/4	10	10	3/4	3-1/2	3-1/2	2 / S4.1	4/HS	3/4	0-6
C2	HSS6x6x1/4	10	10	3/4	3-1/2	3-1/2	2 / S4.1	4/HS	3/4	0-6
C3	PIPE 5 STD	10	10	3/4	3-1/2	3-1/2	2 / S4.1	4/HS	3/4	0-6
C4	PIPE 4 STD	-	-	3/4	-	-	3 / S4.1	4/HS	3/4	0-6

*REFERENCE GENERAL NOTES FOR ANCHOR MATERIAL



1 COLUMN/BASE PL SCHEDULE
NTS



2 TYPICAL COL BASE PLATE DETAIL
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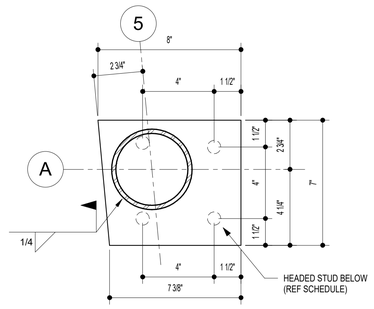
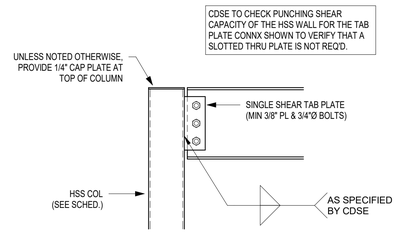


3 C4 BASE DETAIL
3" = 1'-0"



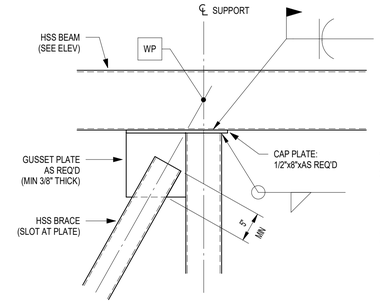
4 TYP BEAM TO COL CONNX DETAIL
NTS

BEAM REACTION TABLE

W8	6 KIPS
W10 & W12	15 KIPS
W14 THRU W18	25 KIPS
W21 THRU W24	40 KIPS
W27 THRU W30	50 KIPS
W33 AND W36	65 KIPS

NOTES:
- THE TABLE SHOWN PROVIDES MINIMUM REACTIONS TO BE USED BY THE CDSE FOR CONNECTION DESIGN WHEN BEAM REACTIONS ARE NOT PROVIDED ON PLAN.
- BEAM SHEAR REACTIONS SHOWN ARE SERVICE LEVEL LOADS
- REFERENCE GENERAL NOTES FOR ADDITIONAL CONNECTION DESIGN INFORMATION

5 BEAM REACTION SCHEDULE
NTS



6 DETAIL
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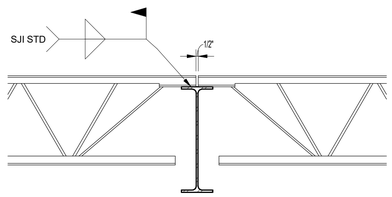
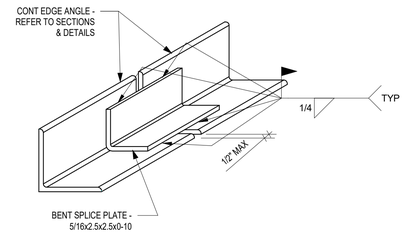


7 TYP JOIST TO WF BM CONNX DETAIL
NTS



8 TYP CONT EDGE ANGLE SPLICE DETAIL
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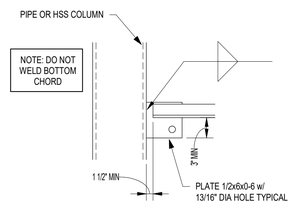

9 TYP BOT CHORD CONNX DETAIL
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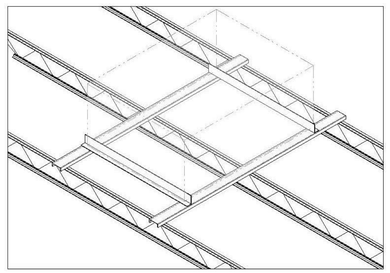

10 TYP JOIST TO COL CONNX DETAIL
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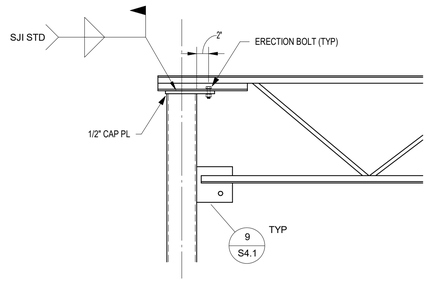

11 TYPICAL MISC ROOF OPENING DETAIL
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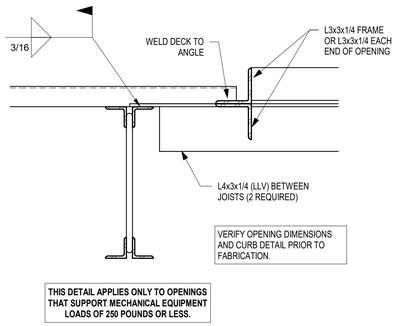
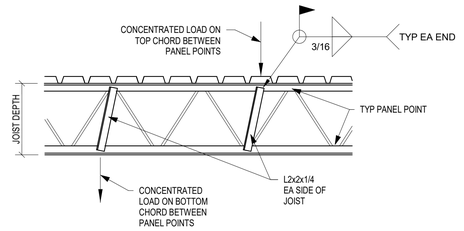


12 TYPICAL POINT LOAD BRACING DETAIL
NTS



13 TYP ROOFTOP EQUIP SUPPORT DETAIL
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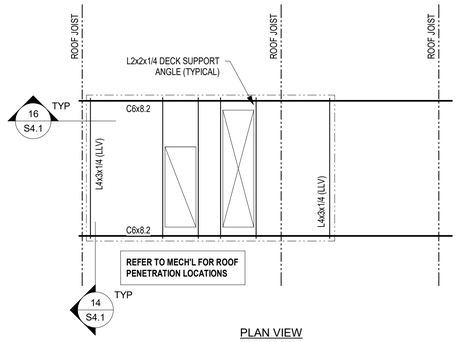

14 ROOFTOP EQUIP SUPPORT DETAIL
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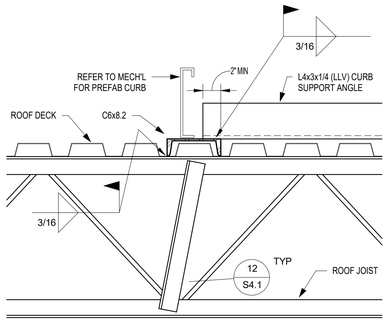

15 TYPICAL MOVEABLE PARTITION SUPPORT DETAIL
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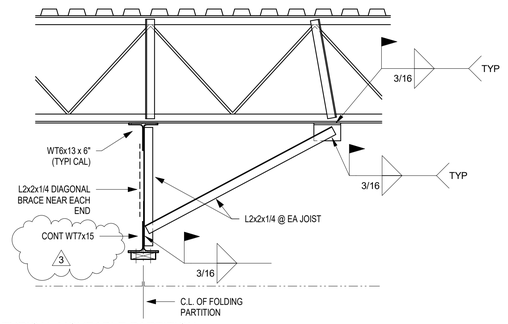

16 ROOFTOP EQUIP SUPPORT DETAIL
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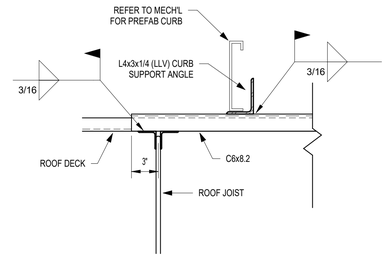

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TBPE Firm No. F-13825 (817) 713-4977

3	REVISION 3, CITY COMMENTS	4/01/2024

Drawing Title:
TYPICAL STEEL DETAILS

Project No.	Date:
2023.297	1/12/2024

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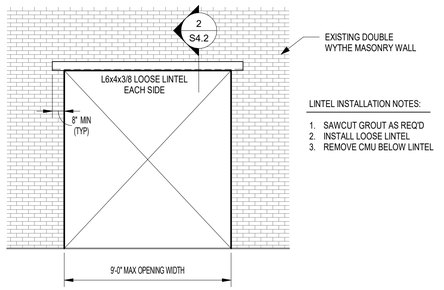
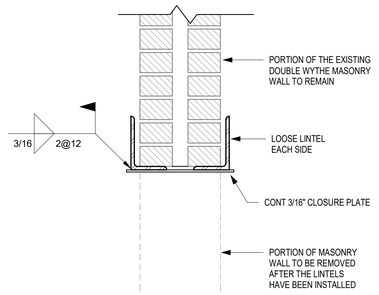
S4.1



1 PARISH HALL WALL OPENING DETAIL
NTS



2 SECTION
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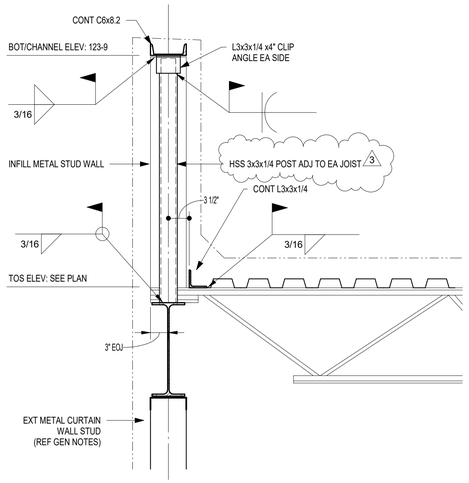

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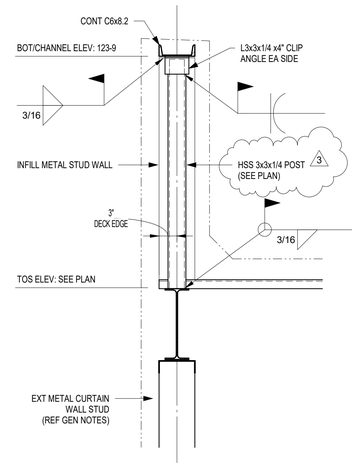

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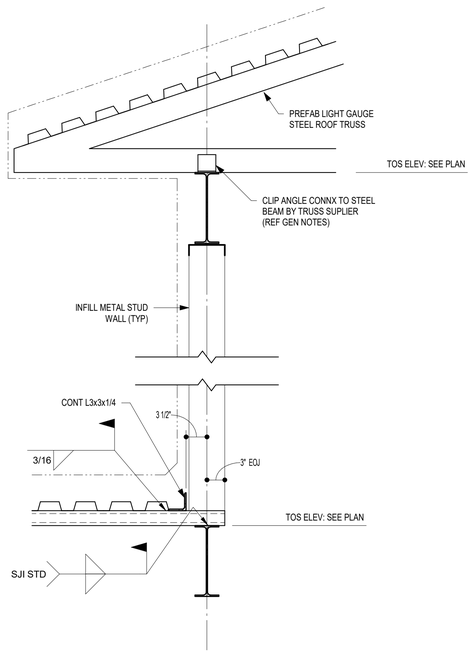

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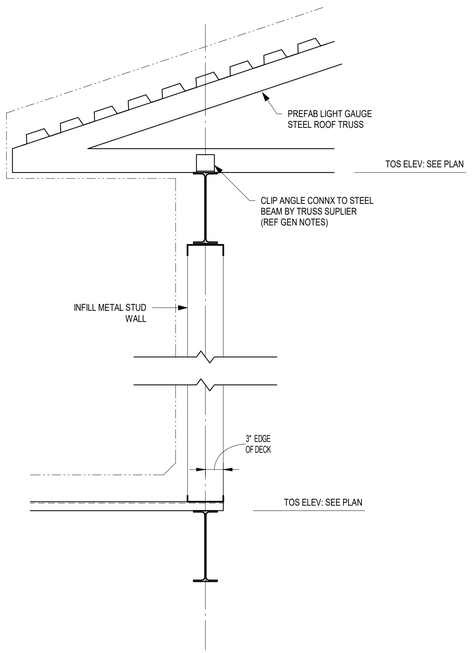

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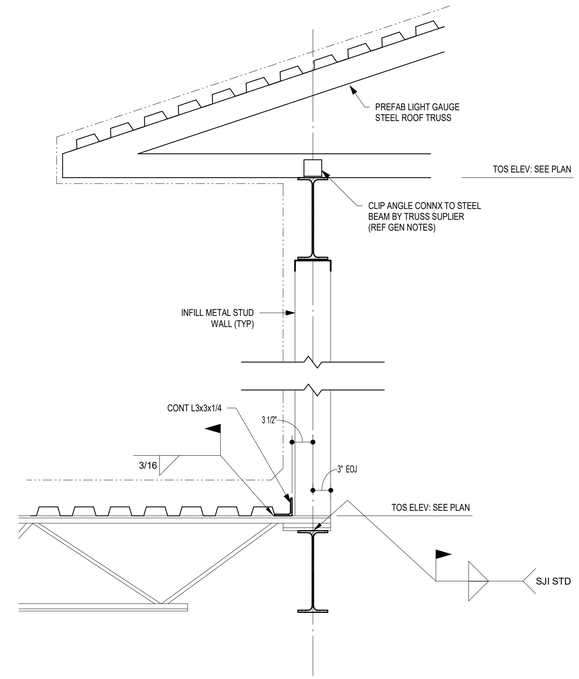

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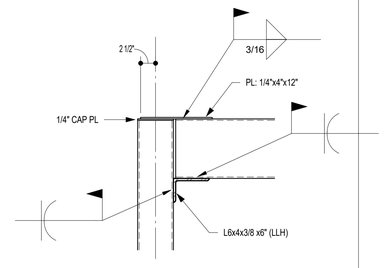

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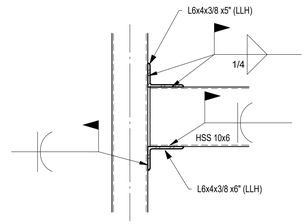

9 DETAIL
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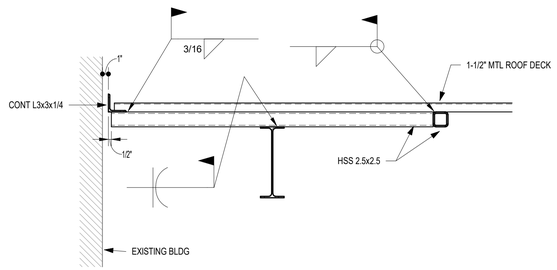

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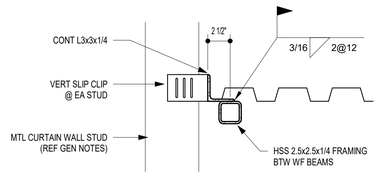

11 SECTION
1 1/2" = 1'-0"

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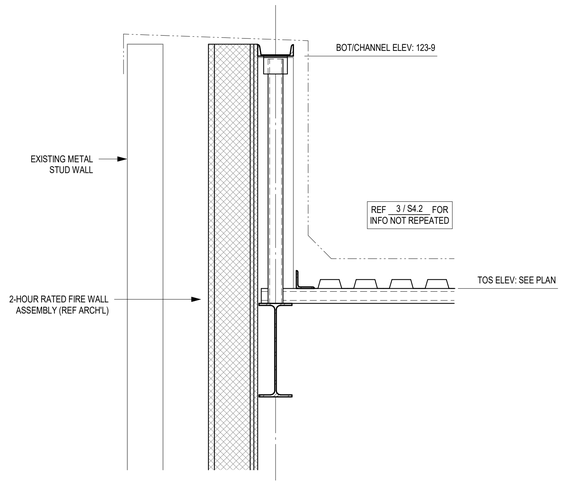
S4.2



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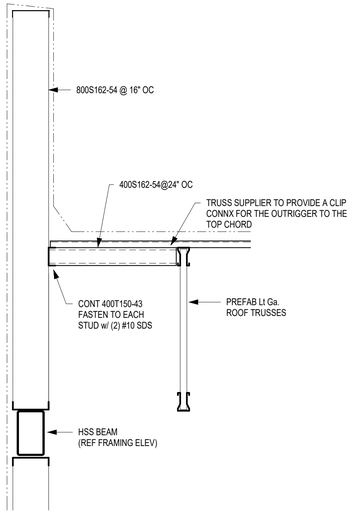

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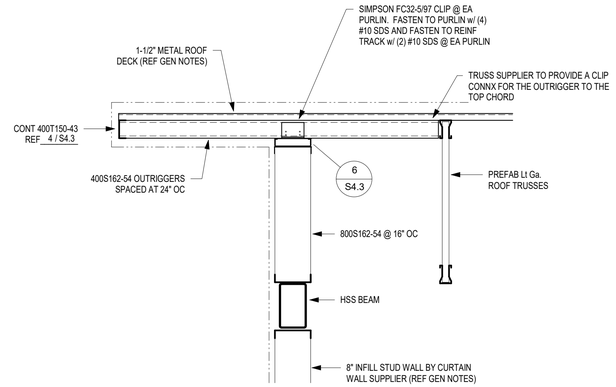

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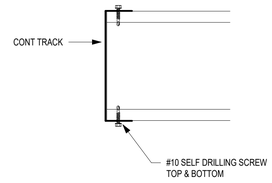

4 DETAIL
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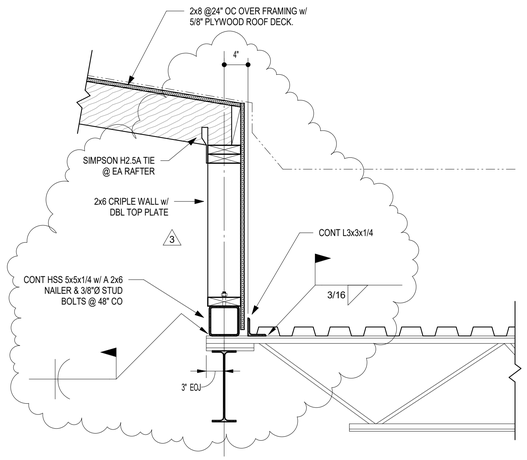

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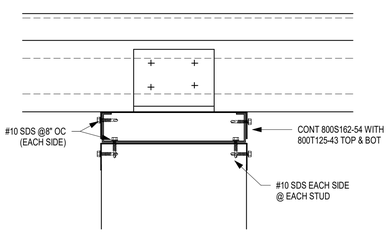

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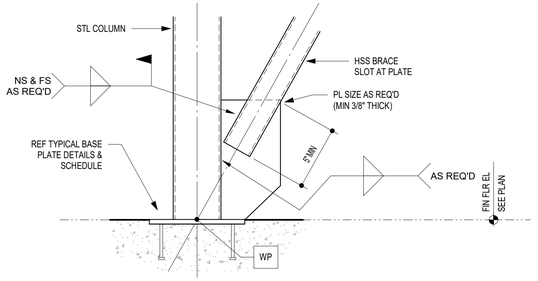
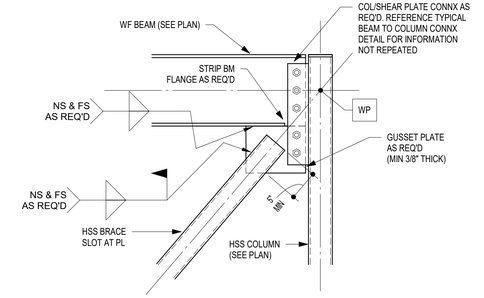


7 TYP VERT BRACE CONNX DETAIL
NTS



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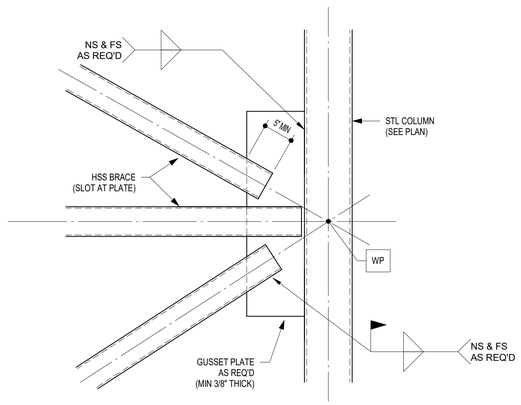

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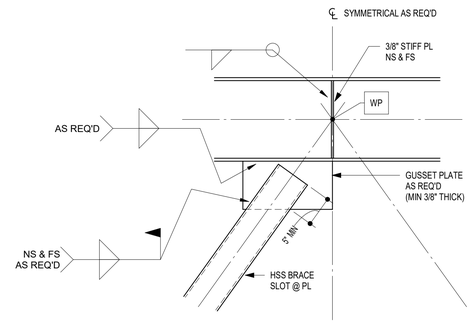

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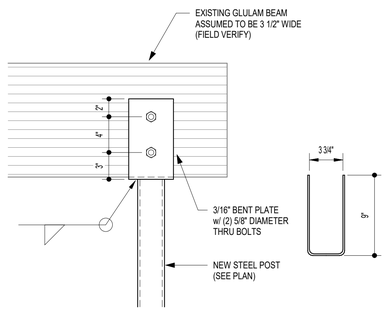

11 DETAIL
1 1/2" = 1'-0"

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Sheet No.
S4.3

SECTION 1 – SUPPLEMENTARY CONDITIONS FOR MECHANICAL WORK

1.1.1 GENERAL CONDITIONS

A. All work covered by this section of these specifications shall be accomplished in accordance with the respective drawings, information of instructions to bidders, general requirements and the supplementary general conditions of these specifications.

B. Bidders shall determine the contents of a complete set of drawings and specifications and be aware that they may be bidding from a partial set of drawings, applicable only to the various separate contract, subcontracts or trades as may be issued for bidding purposes only. The contract documents are the combined Architectural, Structural, Plumbing, Heating, Ventilating and Air Conditioning and Electrical drawings and specifications. All drawings and specifications are on file in the Architect's office, and each Bidder shall thoroughly acquaint himself with all of the details of the complete set of drawings and specifications before submitting his bid. All drawings and specifications form a part of the contract documents for each separate contract. They shall be considered as bound therewith in the event partial sets of plans and specifications shall be deemed evidence of the review and examination of all drawings, specifications and addenda issued for this project. No allowances will be made because of the Contractor's unfamiliarity with any portion of the complete set of documents.

C. All equipment and materials shall be manufactured in the United States of America.

1.1.2 SCOPE

A. The work included under this specification consists of the furnishing of all labor, materials, tools, transportation, services, etc. which are applicable and necessary to complete the installation of the systems specified herein; all as described in these specifications, as illustrated on the accompanying drawings, or as directed by the Architect.

B. In general, the various lines and ducts to be installed by the various trades under this specification shall be run as indicated, as specified herein, as required by particular conditions at the site and as required to conform to the generally accepted standards so as to complete the work in a neat and satisfactorily workable manner. Run work parallel or perpendicular to the lines of the building unless otherwise noted.

C. The construction details for the building are illustrated on the Architectural and Structural Drawings. Each Contractor shall thoroughly acquaint himself with the details before submitting his bid, as no allowance will be made because of the Contractor's unfamiliarity with these details. Place all inserts to accommodate the ultimate installation of pipe hangers in the forms before concrete is poured. Set sleeves in place in forms before concrete is poured, and in masonry walls while they are under construction. All concealed lines shall be installed as required by the pace of the general construction to precede that general construction.

1.1.3 INSPECTION OF SITE

A. The Contractors shall visit the site, verify all existing items shown on plans or specified herein, and familiarize himself with the working conditions, hazards, existing grades, actual formations, soil conditions, and local requirements involved, and submission of bids shall be deemed evidence of such visit. All proposals shall take the existing conditions into consideration, and the lack of specific information on the drawings shall not relieve the Contractor of any responsibility.

1.1.4 UTILITIES, LOCATIONS AND EXCAVATIONS

A. Locations and elevations of the various utilities included within the scope of this work have been obtained from City and/or other substantially reliable sources and are offered separately from the Contract Documents, as a general guide only, without guarantee as to accuracy. The Contractor shall examine the site, shall verify to their own satisfaction the locations, elevations and availability of all utilities and services required and shall adequately inform themselves as to their relation to the work; the submission of bids shall be deemed evidence thereof.

1.1.5 CODE REQUIREMENTS

A. All work shall comply with the provisions of these specifications, as illustrated on the accompanying drawings, or as directed by the Architect, and shall satisfy all applicable local codes, ordinances, or regulations of the governing bodies, and all authorities having jurisdiction over the work, or services thereto. In all cases where alterations to, or deviations from the drawings and specifications are required by the authority having jurisdiction, the Contractor shall report same in writing to the Owner and secure his approval before proceeding. Upon completion of the work, the Contractor shall provide complete utility service connections, as directed, and submit, as required, all necessary drawings; he shall secure all permits and inspections necessary in connection with his work and pay all legal fees on account thereof. In the absence of other applicable local codes acceptable to the Architect, the National Electrical Code and International Plumbing Code shall apply to this work.

1.1.6 RECORDS FOR THE OWNER

A. The Contractor shall obtain at his own expense a complete, full–size set of prints on which he shall keep an accurate record of the installation of all materials and systems covered by his contractual agreement. The record shall indicate the location of all equipment and the routing of all systems. All conduit buried in concrete slabs, walls, and below grade shall be located by dimension unless a surface mounted device in each space indicates the exact location. He shall then obtain at his expense one complete reproducible set of the original drawings on which he shall neatly transfer his notations and deliver these drawings to the Engineer at job completion before the final payment for delivery to the Owner.

B. In addition to the above, the Contractor shall accumulate during the job progress the following data in duplicate prepared in a neat brochure or packet folder bonding for subsequent delivery to the Owner. The Contractor shall include in his bid the cost of binding into a book:

1. All warranties, guarantee, and manufacturer's directions on equipment and material covered by the Contract.
2. Copies of approved shop drawings and submittals.
3. Copies of sequence of operations for all equipment covered by Contract.

1.1.7 MATERIALS AND WORKMANSHIP

A. All materials, unless otherwise specified, shall be new, free from any defects and of the best quality of their respective kinds. All like materials used shall be of the same manufacturer, model and quality, unless otherwise specified.

B. All manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned, adjusted and conditioned as recommended by the Manufacturers, or all indicated in their published literature, unless specifically herein specified to the contrary. All work under this contract shall be performed by competent workmen and executed in a neat and workmanlike manner providing a thorough and complete installation. Work shall be properly protected during construction, including the shielding of soft or fragile materials and the temporary plugging of open lines during construction. At completion, the installation shall be thoroughly cleaned, and all tools, equipment, obstruction or debris present as a result of this Contract shall be removed from the premises.

1.1.8 STORAGE AND PROTECTION

A. Provide adequate facilities for items furnished under these specifications which are subject to damage if exposed to elements. Take such precautions as necessary to properly protect apparatus from damage. Failure to comply with this provision will be sufficient cause for rejection of the particular apparatus involved.

1.1.9 COOPERATION

A. All work under these specifications shall be accomplished in conjunction with other trades on this project in a manner which will allow each trade adequate time at the proper stage of construction to fulfill his work.

B. Maintaining contact and being familiar with the progress of the general construction and the timely installation of sleeves and inserts, etc., before concrete is placed shall be the responsibility of this trade, as will the installation of the required systems in their several stages, at the proper time to expedite this contract and avoid unnecessary delays in the progress of other contracts, and meet all requirements of progress schedules set up by the Architect.

C. Should any question arise between trades as to the placing of lines, ducts, conduits, fixtures or equipment, or should it appear desirable to remove any general construction which would affect the appearance or strength of the structure, reference shall be made to the Architect for instruction.

1.1.10 SCHEDULE OF MATERIAL AND EQUIPMENT

A. The Contractor shall submit for approval a complete schedule of material and equipment which is to be installed under the contract. The schedule shall be submitted within 30 days after the award of this contract and prior to the installation or fabrication of any of the material involved. The schedule shall include for materials the Manufacturer's name, Catalog Number, Type and Trade Name; in addition, for equipment, attach Manufacturer's Engineering Data and Specification Sheet.

1.1.11 SHOP DRAWINGS AND SUBMITTALS:

A. Provide Submittals and Shop Drawings (3 copies minimum) for the following equipment and layout:

1. Ductwork fabrication details and layout at 1/4" = 1'–0" scale.
2. Mechanical equipment cut sheets including all performance characteristics, accessories, drawings, wiring diagrams, etc. Accessories shall be clearly labeled to show what is and is not provided.
3. Piping details showing materials used and joining/sealing methods.
4. Piping layout at 1/4" = 1'–0" scale.

B. Equipment shall not be ordered until approved by the Architect and Engineer of Record. The Contractor shall allow two (2) weeks for design team review of submittals.

1.1.12 DRAWINGS AND SPECIFICATIONS

A. The drawings show, diagrammatically, the locations of the various lines, ducts, conduits, fixtures and equipment and the method of connecting and controlling them. It is not intended to show every connection in detail and all fittings required for a complete system. The systems shall include, but are not limited to, the items shown on the drawings. Exact locations of these items shall be determined by reference to the general plans and measurements at the building and in cooperation with other sub–contractors and, in all cases, shall be subject to the approval of the Architect. The Contractor reserves the right to make any reasonable change in the location of any part of this work without additional cost to the Owner.

B. Should any changes be deemed necessary by the Contractor in items shown on the contract drawings, shop drawings and descriptions, the reason for the proposed changes shall be submitted to the Architect/Owner for approval.

C. Exceptions and inconsistencies in plans and specifications shall be brought to the Architect's attention before bids are submitted; otherwise, the Contractor shall be responsible for the cost of any and all changes and additions that may be necessary to accommodate his particular apparatus.

D. The Contractor shall lay out his work maintaining all lines, grades and dimensions according to these drawings with due consideration for other trades and verify all dimensions at the site prior to any fabrication or installation. Should the layout be impractical, the Architect shall be notified before any installation or fabrication, and the existing conditions shall be investigated and proper changes effected without any additional cost.

E. Titles of Sections and Paragraphs in these specifications are introduced merely for convenience and are not to be construed as a correct or complete segregation of the various units of material and/or work. The Architect does not assume any responsibility, either direct or implied, for omissions or duplications by the Contractor or any sub–contractor due to real or alleged error in the arrangement of matter in the Contract Documents.

1.1.13 ARCHITECT'S APPROVAL

A. In any statement under this contract where "approval" is required or requested, it is understood that such approval must be obtained from the Architect in writing before proceeding with the proposal, and an adequate number of copies of any such proposal shall be submitted to the Architect.

B. The approval by the Architect of any materials, changes, drawings, etc., submitted by the Contractor will be considered as general only and to aid the contractor in expediting his work. such approval as may be given does not in any way relieve the Contractor from the necessity of furnishing the materials and performing all work as required by the drawings and specifications.

1.1.14 LOCAL RESTRICTIONS

A. The Contractor shall become familiar with all rules and regulations of the City, County and State, or any other authority having jurisdiction over this project. If it is the opinion that any work or materials shown on the drawings or specifications do not comply with these rules and regulations as to size, type, capacity and quality, he must make it known prior to the submission of his bid, which shall be deemed evidence of compliance; otherwise, the Contractor shall be responsible for the approval of all work or material and, in the event that such Authority should indicate disapproval, he shall correct same with materials approved by the Architect at no additional cost to the Owner.

1.1.15 ELECTRICAL WIRING

A. Except for such items as are normally wired up at their point of manufacture and so delivered, and unless specifically noted to the contrary herein, the Electrical Subcontractor will do all electric wiring of every character for power supply. The Mechanical Subcontractor shall erect all motors in place ready for connections and shall furnish with each such motor a starter of the type specified and deliver it in good condition to the Electrical Subcontractor at the job. The Electrical Subcontractor will mount all such starters, as directed, furnishing supporting structures where necessary. The Owner and other Subcontractors shall furnish with each item requiring electrical connections, the necessary instructions and wiring diagrams to the Electrical Subcontractor. The Electrical Subcontractor shall refer to the Specifications to determine the Scope of the Work.

1.1.16 LARGE APPARATUS AND EQUIPMENT

A. All large apparatus and equipment which is specified or shown to be furnished or installed under this Contract, and which may be too large to be moved into its final position through the normal building openings planned, shall be placed by this Subcontractor in its approximate final position. This shall be accomplished through cooperation and coordination with other Subcontractors before any obstructing structure is installed. All apparatus shall be cribbed up from the floor by this Subcontractor and cared for as specified under "Storage and Protection" or as directed by the Architect.

1.1.17 RESPONSIBILITY

A. The Contractor will be held responsible for the satisfactory and complete execution of all work included. He shall produce complete finished operating systems and provide all incidental items required as part of his work, regardless of whether such item is particularly specified or indicated.

1.1.18 CLEAN UP

A. Clean up trash and debris caused by the work of this Section, keeping premises, streets, sidewalks and adjacent areas clean and neat at all times. B. Dispose of such materials outside the limits of the project site to approved locations.

1.1.19 PAINTING

A. Upon completion, clean all pipes and equipment before painting. Painting of mechanical equipment and piping is specified in architectural Painting Section.

1.1.20 ACCESS DOORS

A. Access doors are to be provided by the Contractor. Contractor will closely coordinate locations of valves, etc. in order to have access to all concealed portions of the system requiring periodic service. Prepare shop drawings for coordination of all access doors, locating same for installation by General Contractor. Access door locations shall be approved by Architect or Owner before installation.

1.1.21 FLAME SPREAD PROPERTIES OF MATERIALS

A. All materials and adhesives used for acoustical linings and insulation, jackets, tapes, etc. shall conform to Interim Federal Standard Flame–spread Properties of Materials, Inc. Fed. Std. No. 00336A (comm. NBS). The classification shall not exceed No. 2, with the range of indices between 0 and 25 for these classifications as listed in the Federal Specifications for the basic materials, the finishes, adhesives, etc. specified for each system, and shall be such that when completely assembled the total will not exceed an index of 50 in Classification 111 as listed in the Federal Specifications. Modifications shall be made to insulating materials, etc. as required to comply with the Federal Specifications.

1.1.22 GUARANTEE

A. The Contractor shall furnish a written guarantee in triplicate, warranting all materials, equipment and labor furnished by him to be free of all defects for a period of one year from date of final acceptance by the Owner. He shall further guarantee that all equipment shall meet the characteristics, capacities and workmanship specified and within the warranty period, the defects and/or equipment will be repaired or made good without cost to the Owner. The Contractor further agrees to correct warranty deficiencies within 48 hours of notification by management.

B. REFERENCE DOCUMENTS: Conditions of the Contract and Division 01 "General Requirements" are made a part of this section whether attached hereto or not.

1.1.23 IDENTIFICATION ⚠1

A. All equipment shall have permanently affixed identification tags. Tags shall be UV resistant plastic laminate, red face with 1/2–inch tall white letters. The tag shall match the unit and panel designations shown on the schedules. The tag shall include the panel and circuit number, and fire alarm address (where applicable).

B. Locate tags to be visible and accessible.

SECTION 2 – HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS

4.1.1 SCOPE

A. Provide complete air supply, return, outside air and exhaust systems including fans, terminal devices and other components specified herein.

4.1.2 SUBMITTALS

A. Shop Drawings: Submit complete shop drawings, in accordance with Section 1, indicating materials, quantities, sizes and installation details.

4.1.3 COORDINATION

A. Install materials and equipment at proper time to keep pace with the general construction and the work of the other trades involved.

4.1.4 WARRANTY

A. The Mechanical Sub–contractor shall warranty all material, workmanship and equipment for a period of one year after final acceptance by the Owner. The warranty specifically implies that any defective portion becoming apparent during this period will be repaired, replaced or otherwise made good at no additional cost to the Owner. It shall further include replacement or refrigerant loss not due to Owner negligence. Compressors shall contain an additional four–year warranty.

4.2.1 DUCTWORK

A. Rigid Ductwork: All air conditioning and exhaust ductwork, plenum, casings and sheet metal, connections shall be fabricated of new joint–forming quality galvanized prime grade sheets.

B. Rectangular Low Pressure Ducts: Constructed of the following minimum gauges:

Largest Dimension of Duct	Gauge of Metal
Up to 12"	No. 26 U.S. Gauge
13" to 30"	No. 24 U.S. Gauge
31" to 54"	No. 22 U.S. Gauge

C. Round Low Pressure Ducts: "SNAP–LOK" as manufactured by United Sheet Metal Company.

D. Rectangular Ductwork Fittings: Fabricated per SMACNA Standards for low–pressure ductwork(2–inch pressure class).

E. Round Ductwork Fittings: As manufactured by United Sheet Metal Co., and/or as detailed on the drawings.

F. Flexible Connections: Connections to air conditioning units and fans shall be flexible connections which shall be neoprene coated glass fabric weighing not less than 30 ounces per square yard and at least 1/16" thick.

G. At the Contractor's option, 2" insulated flexible duct may be used for final run out to air devices when installed per manufacturer's installation instructions. Flexible run outs shall not exceed 5–feet extended length.

H. Access doors shall be provided for access to all dampers, fusible links, and where required for maintenance and cleaning operations. Access doors serving insulated ducts shall be double–skin doors with one inch of insulation on the door. Where duct size permits, the access doors shall be16–inches by 18–inches. Access doors shall be as manufactured by MILCOR.

4.2.2 COMMERCIAL KITCHEN DUCTWORK

A. Ducts Connected to Type I Commercial Kitchen Hoods

1. Comply with NFPA 96.
2. Exposed to View: Type 304, stainless–steel sheet, No. 4 finish.
3. Concealed: Type 304, stainless–steel sheet, No. 2D finish.
4. Welded seams and joints.
5. Pressure Class: Positive or negative 4–inch wg.
6. Minimum SMACNA Seal Class: Welded seams, joints, and penetrations.
7. SMACNA Leakage Class: 3
8. ADDITIONAL INSTALLATION REQUIREMENTS FOR COMMERCIAL KITCHEN HOOD EXHAUST DUCT
   a. Install commercial kitchen hood exhaust ducts without dips and traps that may hold grease, and sloped a minimum of 2 percent to drain grease back to the hood.
   b. Install fire–rated access panel assemblies at each change in direction and at maximum intervals of 12 feet in horizontal ducts, and at every floor for vertical ducts, or as indicated on Drawings. Locate access panel on top or sides of duct a minimum of 1–1/2 inches from bottom of duct.
   c. Do not penetrate fire–rated assemblies except as allowed by applicable building codes and authorities having jurisdiction.

4.3.1 INSULATION

A. All rectangular sheet metal ducts shall be insulated with 1.5–inch" thick, 3/4" lb density fiberglass–faced insulation, or as required to meet a minimum installed R–value of 5.0. Install with all joints overlapped and neatly sealed.

B. All round sheet metal ducts shall be insulated with 2" thick, 3/4" lb density fiberglass–faced insulation, or as required to meet a minimum installed R–value of 5.0. Install with all joints overlapped and neatly sealed with UL 181 listed sealant.

C. Where rectangular or round sheet metal duct is exposed to view in public areas, ducts shall be lined with glass–mat or foil faced liner of thickness, as required, to meet a minimum installed R–value of 5.0. Liner shall be treated with anti–microbial coating. Install with all joints overlapped and neatly sealed.

D. Insulate refrigerant piping with 3/8" thick ARMAFLEX. Apply insulation with all joints firmly butted together.

4.4.1 FILTERS

A. Filters shall be 1" throw away type and shall be Farr 30–30 filter or equal types by Cambridge or Microtron. Maximum velocity through filter media shall be 500 fpm.

4.5.1 AIR DISTRIBUTION DEVICES

A. Air distribution devices shall be furnished with frame styles, deflecting device, dampers and other accessories as shown on the schedule, as manufactured by Titus or approved equal by Metal–aire, Price, or Krueger.

B. Wall louvers shall be recessed frame double weather stop with bird screen. Provide Ruskin model series ELF or approved equal by Greenheck or SEMCO.

C. Furnish and install screens on all duct, fan or other mechanical openings or equipment furnished by this contractor, which lead to or are outdoors. screens shall be 16 gauge, one–half inch mesh in removable galvanized frames.

4.7.1 PACKAGED ROOF TOP UNITS

A. Casing:

1. Galvanized steel painted with baked enamel.
2. Galvanized–steel liner.
3. Insulated with fiberglass.
4. Stainless–steel or corrosion resistant drain pan.

B. Supply–Air Fan: Belt driven, forward curved, centrifugal.

C. Condenser–Coil Fan: Direct–driven propeller.

D. Relief–Air Fan: Forward curved.

E. Supply–Air Refrigerant Coil:

1. Aluminum–plate fins and seamless copper tube.
2. Baked phenolic coating.

F. Refrigerant Circuit Components:

1. Number of Refrigerant Circuits: One.
2. Compressor: Hermetic scroll.
3. Refrigerant Charge: R–410A.
4. Low–ambient kit.
5. Hot–gas reheat valve.
6. Hot–gas bypass valve.

G. Filters: Disposable, pleated.

H. Gas Furnace:

1. Heat Exchanger and Drain Pan: Stainless steel.
2. Fuel: Natural.
3. Ignition: Electronic.
4. Gravity vent.
5. Modulating gas control valve.

J. Outdoor– and Return–Air Mixing Dampers: 0 to 100 percent economizer with motorized dampers and hood.

K. Electrical Power Connection: Single.

L. Basic Unit Controls: Programmable wall–mounted thermostat.

M. Accessories:

1. Gas burner compartment heater.
2. Duplex electrical outlet.
3. Low–ambient kit.
4. Hail guards.
5. Roof Curb:
6. Vibration isolators, where not integral to factory construction.
7. Wind restraints.

4.8.1 EXHAUST FANS

A. In–line Exhaust Fans shall be direct drive, forward curved, centrifugal blower type. Fan wheel and scroll shall be constructed of galvanized steel. Fan wheel shall be dynamically balanced. The fan housing shall be constructed of galvanized steel and acoustically lined for quiet operation. Fan housing shall be provided with mounting lugs for suspension above a ceiling. Provide fan with an integral aluminum gravity back–draft damper. The motor shall be permanently lubricated with built–in thermal overload protection. Provide a safety disconnect switch mounted to the exterior of the fan enclosure. Fans shall be AMCA rated.

B. Ceiling Exhaust Fans shall be direct drive, forward curved, centrifugal blower type. fan wheel and scroll shall be constructed of galvanized steel. Fan wheel shall be dynamically balanced. The fan housing shall be constructed of galvanized steel and acoustically lined for quiet operation. Provide fan with an integral aluminum gravity back–draft damper. The ceiling ventilator shall be furnished with a white, metal ceiling exhaust grille. Provide mounting kit for suspension from structure with rubber–in–shear vibration isolators. Provide manufacturer's standard roof jack or wall cap, and transition fittings.The motor shall be permanently lubricated with built–in thermal overload protection. Fans shall be AMCA rated.

C. Roof Mounted Upblast/Downblast Exhaust Fans shall be belt or direct drive, backward inclined, centrifugal blower type. Fan wheel and scroll shall be constructed of aluminum. Fan wheel shall be dynamically balanced. The fan housing shall be constructed of aluminum. Top cap shall be provided with stainless steel quick release hatches for access to the motor and fan wheel. Fan housing shall be provided with lifting lugs. Provide fan with a gravity back–draft damper to be installed in the intake. The motor shall be provided with re–greasable bearings with a 200,000 hour average life minimum and built–in thermal overload protection. Provide a safety disconnect switch integrally mounted to the fan enclosure. Fans shall be AMCA rated.

4.9.1 ELECTRIC UNIT HEATERS

A. Electric unit heater cabinet shall be constructed of heavy gauge steel casing. Individual adjustable louvers with 30 degrees downward stops shall be furnished to provide desired control of discharge air. All metal surfaces of the enclosure shall be phosphate coated to resist corrosion and finished in decorative baked enamel. Mounting brackets designed for either ceiling or wall swivel mounting shall be factory furnished.

B. Fans shall be aluminum, direct drive and designed specifically for unit heater application. protect fans by means of a corrosive resistant welded fan guard.

C. All heaters shall be UL listed and meet the requirements of the national electric code.

D. Provide unit heater with a 24v control transformer, thermostat, relays and other control devices as necessary for the control of the unit. Thermostat shall be factory wired internally in the heater or remote mounted on a wall and served by low voltage wiring concealed inside conduit as indicated on the drawings.

E. Motors shall be totally enclosed, designed for continuous operation and equipped with built–in thermal overload protection.

F. Electric unit heaters shall be QMark/Marley, Berko, Markel or approved equal.

SECTION 5 – SYSTEM BALANCING

5.1.1 SCOPE

A. Testing, adjustment and start–up of mechanical systems shall be performed by personnel certified by the American Air Balance Council. Testing, adjusting and balancing shall be performed by an independent 3rd party contractor. All necessary test equipment, instruments, materials and labor required for performing all the tests described shall be provided as part of the work of this division.

B. Upon completion of the installation and start–up of the mechanical equipment, check, adjust and balance systemic components to obtain optimum conditions in each conditioned space in the building.

C. Prior to requesting a final inspection, this sub–contractor shall prepare and submit to the architect/engineer of record complete reports on the balance and operations of the system, bearing the seal of a certified air balance technician. In this report, the original conditions measured at startup and final conditions after balancing of all equipment shall be clearly indicated.

D. Make an inspection in the building during the opposite season from that in which the initial adjustments were made and, at the time, make any necessary modifications to the initial adjustments required to produce optimum operation of the systemic components to produce the property conditions in each conditioned space.

5.1.2 WORK INCLUDED

A. The balancing technician shall be responsible for inspecting, adjusting, balancing and logging the data on the performance of fans, all dampers in the duct systems and all air distribution devices. The mechanical contractor and the suppliers of the equipment installed shall all cooperate with the balancing technician to provide all necessary data on the design and proper application of the systematic components and shall furnish all labor and materials required to eliminate any deficiencies or improper–performance.

B. During the balancing, the temperature regulation shall be adjusted for proper relationship between controlling instruments and calibrated by the temperature controls sub–contractor using data submitted by the balancing technician. The total variation shall not exceed 3 degrees from the present median temperature during the entire temperature survey period.

C. In all fan systems, balance the air quantities to be between plus 10– to minus 5–percent of the values shown on the plans. It shall be the obligation of the mechanical contractor to furnish or revise fan drives and/or motors, if necessary, without cost to the contractor, to attain the specified air volume.

5.1.3 REPORT

A. Before final acceptance is made, the balancing technician shall prepare a detailed, written report.

B. The data shall be neatly entered on appropriate forms together with any typed supplements required to completely document all results.

C. Written explanations of any abnormal conditions shall be included. All this shall be assembled into a suitable brochure, and a total of four copies shall be provided.

D. The typed test data sheets and correlation of the test results shall be certified to be true and correct by a certified air balance technician over the signature of the subcontractor. Such signature shall be executed by an officer if the subcontracting firm is a corporation, a partner if a partnership, or by the owner is a sole ownership. This data shall be delivered to designated members of the building operating personnel not less than three days after the texts are complete settings, reading, etc. shall be prepared and submitted in quadruplicate.

5.1.4 INSTRUCTIONS

A. During the test periods, the balancing technician shall instruct the building maintenance personnel in the construction and operation of all equipment.

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SCOTT MARTSOLF - ARCHITECT

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⚠1 03/28/2024 REVISION 3 - CITY COMMENTS

PERMIT SET

Drawing Title:
HVAC SPECIFICATIONS

Project No.	Date:
2307	1/12/2024
	Sheet No. M0.2

2347.0328.3804

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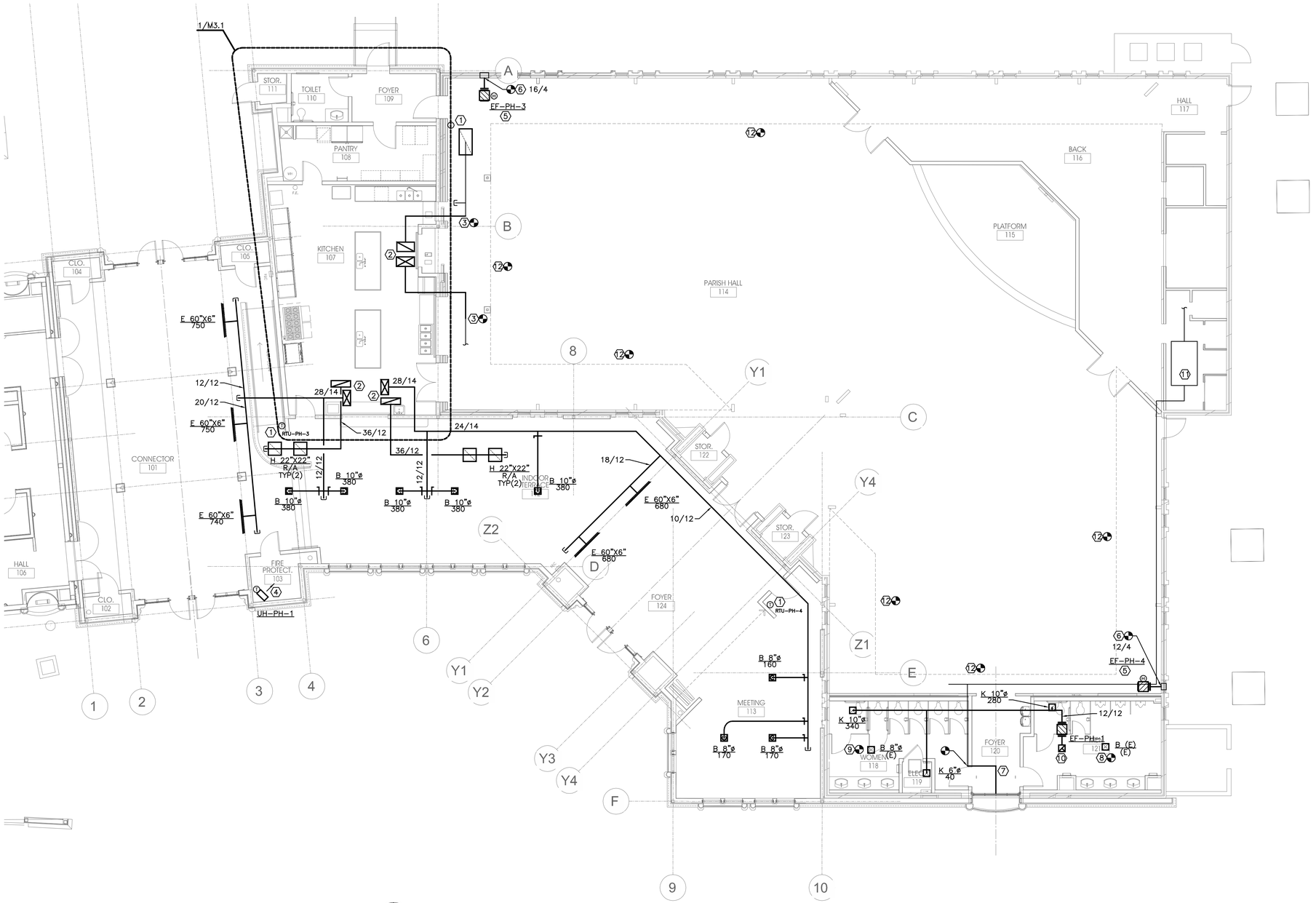

1 PARTIAL FLOOR - HVAC PLAN
Scale: 1/8" = 1'-0"

N

NOTES BY SYMBOL "⑫"

⑫ CLEAN EXISTING AIR DEVICES AND PREP FOR PAINTING TO MATCH ADJACENT SURFACE COLOR. RE-INSTALL WHERE EXISTING WAS REMOVED.
⚠1 MODIFY RUN-OUT DUCT, AS REQUIRED. RE-BALANCE SUPPLY AIR DEVICES TO VALUES NOTED IN DEMOLITION PHASE.

NOTES BY SYMBOL "⑥"

⑥ TRANSITION FROM FULL-SIZE FAN DISCHARGE TO EXISTING CRAWLSPACE VENT (VERIFY EXACT LOCATION AND SIZE NOTED).

⑦ TRANSITION FROM FULL FACE SIZE OUTDOOR AIR INTAKE LOUVER TO EXISTING OUTDOOR AIR DUCT SIZE (FIELD VERIFY). REFER TO ARCHITECTURAL FOR LOUVER LOCATION. LOUVER FACE AREA SHALL MATCH OR EXCEED AREA OF EXISTING OUTDOOR AIR LOUVER MEASURED AT THE DEMOLITION PHASE.

⑧ CONNECT RUN-OUT FROM DEMOLISHED AIR DEVICE TO NEW AIR DEVICE WITH SAME NECK SIZE AS EXISTING RUN-OUT. BALANCE TO AIR FLOW VALUE MEASURED AT DEMOLITION PHASE.

⑨ 8-INCH DIAMETER RUN-OUT FROM NEAREST BRANCH SUPPLY DUCT OF EQUIVALENT SIZE OR LARGER TO NEW AIR DEVICE. BALANCE TO SUM OF AIR FLOW VALUE MEASURED AT DEMOLITION PHASE FOR EACH RESTROOM.

⑩ 12/12 UP TO EXHAUST VENT ON ROOF.

⑪ EXISTING AIR HANDLING UNIT TO REMAIN – SHOWN FOR REFERENCE ONLY.

NOTES BY SYMBOL "①"

① COORDINATE FINAL LOCATION OF THERMOSTAT WITH OWNER (VIA ARCHITECT) PRIOR TO INSTALLATION. PROVIDE REMOTE TEST SWITCH FOR
⚠3 DUCT DETECTOR(S) ADJACENT TO THERMOSTAT UNIT.

② TRANSITION FROM FULL-SIZE ROOFTOP UNIT SUPPLY/RETURN AIR OPENING TO/FROM SIZE SHOWN ON PLAN AT ROOF DECK. REFER TO M2.2 FOR CONTINUATION. REFER TO DETAIL 1/M4.1 3/M4.1 FOR ADDITIONAL INSTRUCTIONS.

③ CONNECT EXISTING SUPPLY AND RETURN WHERE EXISTING WAS REMOVED, USING SAME DUCT SIZES AS EXISTING.

④ COORDINATE LOCATION OF UNIT HEATER WITH OTHER EQUIPMENT, PIPING AND ACCESSORIES IN ROOM.

⑤ CRAWLSPACE VENTILATION FAN SUSPENDED IN CRAWLSPACE. PROVIDE WITH 1/2-INCH STAINLESS STEEL MESH INLET SCREEN AND HUMIDISTAT SET TO ENERGIZE FAN WHEN CRAWLSPACE HUMIDITY IS ABOVE 60-PERCENT. SEE FAN SCHEDULE ON M0.3 FOR ADDITIONAL, REQUIRED ACCESSORIES.

GENERAL NOTES THIS SHEET

1. REFER TO NOTES AND SCHEDULES ON M0.1 FOR ADDITIONAL INSTRUCTIONS.
2. RE-BALANCE ALL DUCTED GRILLES, REGISTERS, AND DIFFUSERS WITHIN LIMITS OF CONSTRUCTION TO VALUES MEASURED PRIOR TO DEMOLITION. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER.

8' 0 8' 16'
1/8"=1'-0"

STATE OF TEXAS 3/28/2024 RENÉ A. CULROSS 71739 LICENSED PROFESSIONAL ENGINEER

2347.0328.3804

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⚠1 12/29/23 ADDENDUM #1
⚠2 03/28/2024 REVISION 3 - CITY COMMENTS

PERMIT SET

Drawing Title:
PARTIAL FLOOR - HVAC PLAN

Project No.	Date:
2307	1/12/2024
	Sheet No. M2.1

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GENERAL NOTES THIS SHEET

1. REFER TO M0.1 FOR ADDITIONAL INSTRUCTIONS.
2. RUN-OUTS TO AIR DEVICES ARE SAME AS NECK SIZE NOTED ON PLAN UNLESS OTHERWISE NOTED.

NOTES BY SYMBOL "⚠1"

⚠1 COORDINATE FINAL LOCATION OF THERMOSTAT WITH OWNER (VIA ARCHITECT) PRIOR TO INSTALLATION. PROVIDE REMOTE TEST SWITCH FOR DUCT DETECTOR(S) ADJACENT TO THERMOSTAT UNIT.

2. TRANSITION FROM FULL-SIZE ROOFTOP UNIT SUPPLY/RETURN AIR OPENING TO/FROM SIZE SHOWN ON PLAN AT ROOF DECK. REFER TO M2.2 FOR CONTINUATION. REFER TO DETAIL 1/M4.1 3/M4.1 FOR ADDITIONAL INSTRUCTIONS.

3. ROUTE 6-INCH DIAMETER RIGID ROUND DUCT TO MANUFACTURER'S STANDARD WALL CAP.

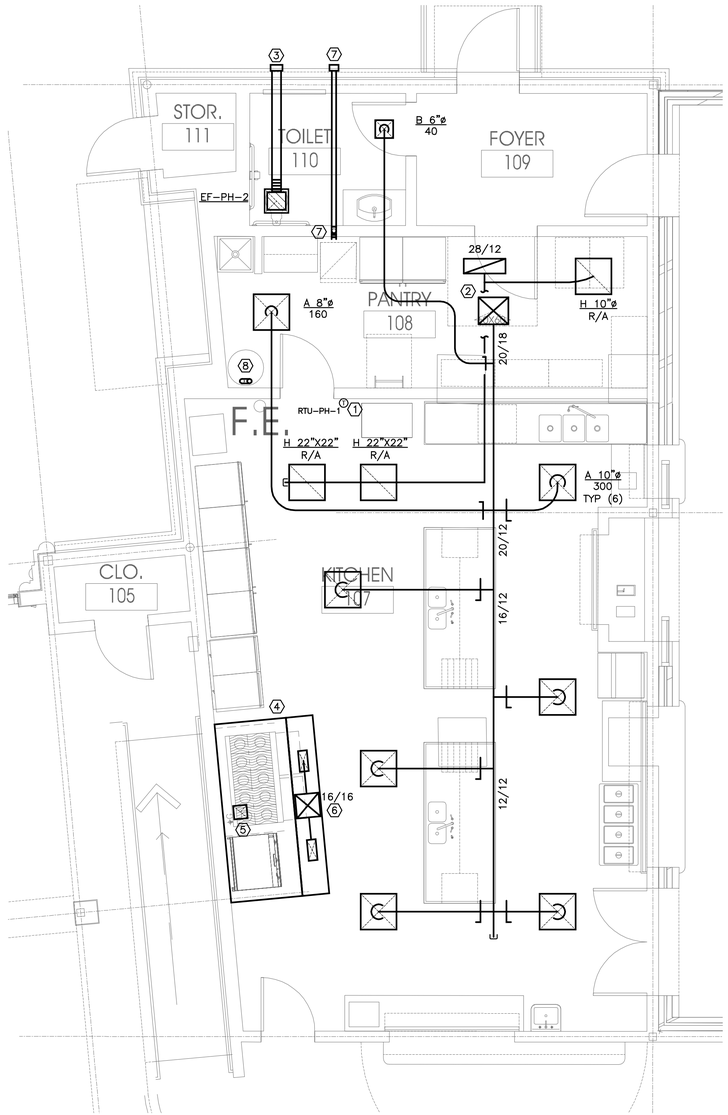
4. TYPE I KITCHEN HOOD WITH SINGLE PLENUM SUPPLY; (DELEGATED DESIGN) UL LISTED, FULLY INTEGRATED PACKAGE DESIGNED BY CAPTIVEAIRE OR APPROVED EQUAL; PRE-ENGINEERED FOR OPTIMUM PERFORMANCE. THE PACKAGE CONSISTS OF THE HOOD, AN INTEGRAL UTILITY CABINET, FACTORY PRE-WIRED ELECTRICAL CONTROLS, AND A LISTED FIRE SUPPRESSION SYSTEM. EXHAUST FAN (PH-KEF-1) AND SUPPLY FAN (PH-KSF-1) SHALL BE MATCHED TO HOOD, AS REQUIRED FOR A COMPLETE AND INTEGRATED SYSTEM. REFER TO FAN SCHEDULE ON M0.3 FOR BASIS OF DESIGN MODEL SERIES.

5. TRANSITION FROM FULL EXHAUST CONNECTION SIZE AT HOOD TO FAN OPENING SIZE AT ROOF DECK. GREASE LADEN DUCT SHALL SLOPE A MINIMUM OF 1/4-INCH PER FOOT TOWARDS HOOD.

6. TRANSITION TO SIZE NOTED ON PLAN FROM FULL SUPPLY FAN DISCHARGE SIZE AT ROOF DECK. DUCT SIZE NOTED IS BASED ON DESIGN BASIS SUPPLY FAN (1,600 CFM).

7. FULL-SIZE DRYER EXHAUST UP IN WALL TO EXTERIOR WALL. REFER TO DETAIL 4/M4.1 FOR DRYER BOX DETAIL. TERMINATE WITH FULL-SIZE DRYER VENT WALL CAP WITH INTEGRAL BACK-DRAFT DAMPER. PAINT CAP TO MATCH ADJACENT SURFACE COLOR. DRYER DUCT SHALL BE SMOOTH RIGID ROUND DUCT WITHOUT SEAMS OR SCREWS.

8. ROUTE FULL-SIZE FLUE/INTAKE TO CONCENTRIC VENT ON ROOF. REFER TO DETAIL 8/M4.1 AND PLUMBING DRAWINGS FOR ADDITIONAL INSTRUCTIONS.



1 PARTIAL FLOOR - ENLARGED KITCHEN - HVAC PLAN
Scale: 1/4" = 1'-0"

N

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⚠1 03/28/2024 REVISION 3 - CITY COMMENTS

PERMIT SET

Drawing Title:
PARTIAL FIRST FLOOR - HVAC PLANS

Project No.	Date:
2307	1/12/2024
	Sheet No. M3.1

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ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF ELECTRICAL CONSTRUCTION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
3. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
4. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES IN ELECTRICAL/MECHANICAL SPACES WITH EQUIPMENT, DUCTWORK AND PIPING.
5. ALL RECEPTACLE OUTLETS LOCATED WITHIN 6'-0" OF A WET BAR OR SINK SHALL BE GFI TYPE. ALL RECEPTACLE OUTLETS LOCATED OUTDOORS SHALL BE WP/GFI. ALL RECEPTACLES SERVING VENDING MACHINES SHALL BE GFI TYPE. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE GFI TYPE. ALL RECEPTACLES IN KITCHEN AREAS SHALL BE GFI TYPE.
6. ALL CONDUIT PENETRATIONS THROUGH THE ROOF TO SERVE MECHANICAL EQUIPMENT SHALL BE WITHIN THE ASSOCIATED EQUIPMENT ROOF CURB. COORDINATE LOCATIONS OF PENETRATIONS WITH THE MECHANICAL CONTRACTOR.
7. PROVIDE THE TYPE OF MOUNTING HARDWARE AND TRIM NECESSARY FOR THE PROPER INSTALLATION OF SPECIFIED LIGHTING FIXTURES IN THE TYPE OF CEILING WHERE INSTALLED.
8. PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED.
9. EACH BRANCH AND FEEDER CIRCUIT SHALL BE PROVIDED WITH A GROUND CONDUCTOR SIZED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70). WHERE A CONDUIT CONTAINS MULTIPLE BRANCH CIRCUITS, PROVIDE A SINGLE GROUND CONDUCTOR UNLESS OTHERWISE NOTED.
10. CONDUIT, LIGHT FIXTURES, AND OTHER COMPONENTS MAY BE SHOWN LARGER THAN ACTUAL SIZE. CONDUIT ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO ENSURE CONDUIT PLACEMENT DOES NOT CONFLICT WITH LOCATION SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.
11. INTEGRATED EQUIPMENT RATINGS SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE MANUFACTURER'S EQUAL OR NEXT HIGHER STANDARD RATINGS.
12. ALL PULL CORD/WIRE PROVIDED FOR EMPTY RACEWAY/CONDUIT SYSTEMS SHALL HAVE A MINIMUM STRENGTH OF 200 LBS TENSILE STRENGTH. ALL EMPTY CONDUITS SHALL HAVE A PULL CORD.
13. PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS.
14. THE LIGHTING PLANS INDICATE SWITCHING AND BRANCH CIRCUIT NUMBERS FOR ALL LIGHTING FIXTURES. LOWER CASE LETTERS AT SWITCHES AND LIGHTING FIXTURES INDICATE SWITCHING WHERE THE CONTROL PATTERN IS NOT OBVIOUS. INSTALL BRANCH CIRCUIT WIRING IN RACEWAY TO ALL RIGIDLY ATTACHED LIGHTING FIXTURES, AND TO JUNCTION BOXES FOR ALL LAY-IN LIGHTING FIXTURES, AS REQUIRED TO PROVIDE SWITCHING AND CIRCUITING AS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. ALL LAY-IN LIGHTING FIXTURES SHALL BE CONNECTED TO A BRANCH CIRCUIT JUNCTION BOX WITH A FLEXIBLE FIXTURE TAIL. A MAXIMUM OF FOUR FIXTURE TAILS SHALL BE CONNECTED TO A SINGLE JUNCTION BOX. FIXTURE TO FIXTURE WIRING OF LAY-IN LIGHTING FIXTURES IS NOT PERMITTED, EXCEPT WHERE MASTER/SLAVE FIXTURE PAIRS ARE INDICATED OR SPECIFIED.
16. THERE SHALL BE NO SPLICES OF WIRING INSIDE PANELBOARDS OR DISCONNECT SWITCHES. ONLY ONE WIRE SHALL BE TERMINATED TO ANY SINGLE LUG ON A CIRCUIT BREAKER.
17. ALL WIRING AND CONDUIT SIZES SHALL BE BASED ON THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE UNLESS OTHERWISE NOTED SPECIFICALLY.
18. UNLESS OTHERWISE NOTED, FOR LIGHTING AND RECEPTACLE HOMERUNS HAVING A TOTAL LENGTH OF 100' TO 200', USE #10 CONDUCTORS; FOR HOMERUNS HAVING A TOTAL LENGTH OF 200' OR GREATER, USE #8 CONDUCTORS.
19. COORDINATE THE REQUIREMENTS FOR OVERCURRENT PROTECTIVE DEVICE SIZE, DISCONNECT SWITCH SIZE, AND CONDUCTOR AND CONDUIT SIZES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT THAT IS ACTUALLY TO BE INSTALLED AND PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS AS REQUIRED. THE ELECTRICAL COMPONENT SIZING SHOWN ON THESE DRAWINGS IS BASED UPON THE REQUIREMENTS FOR THE SPECIFIED MECHANICAL EQUIPMENT AVAILABLE AT THE TIME OF DESIGN. VARIATIONS IN REQUIREMENTS MAY OCCUR AS A RESULT OF THE PROVISION OF OTHER MANUFACTURER'S EQUIPMENT OR IN CHANGES TO THE SPECIFIED EQUIPMENT. SUCH REVISED REQUIREMENTS ARE A PART OF THIS CONTRACT AND SHALL BE ACCOMMODATED WITHOUT ADDITIONAL CHARGE.
20. FOR COORDINATION PURPOSES, LIGHTING FIXTURES AND DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF FIVE FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER, UPON INSTRUCTION BY THE ARCHITECT OR ENGINEER.
21. COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND POWER WIRING WITH THE MECHANICAL CONTRACTOR OR THE TRADE PROVIDING THE EQUIPMENT.
22. WHERE RECEPTACLES ARE SHOWN BACK-TO-BACK ON A COMMON WALL, OFFSET THE TWO BOXES AT LEAST SIX INCHES.
23. ALL CONDUCTORS SHALL BE THWN/THHN UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE RATED FOR 75 DEGREES C. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110-14(c) FOR EXACT EQUIPMENT BEING PROVIDED.
24. VERIFY DEVICE PLATE COLORS WITH ARCHITECT.
25. COORDINATE WITH AND PAY ALL FEES ASSOCIATED WITH OBTAINING SERVICE FORM ANY OF THE FOLLOWING UTILITIES RELATED TO THIS PROJECT:
    POWER COMPANY
    TELEPHONE COMPANY
    CABLE/INTERNET SERVICE PROVIDER
26. ALL CIRCUITS FEEDING LOADS FROM VFD CONTROLLERS SHALL UTILIZE BELDEN VFD RATED CABLE SIZED AS RECOMMENDED BY THE MANUFACTURER BUT NOT LESS THAN THE RATING OF THE FEEDER SERVING THE VFD. RACEWAY SIZES FOR THE BELDEN CABLE SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL VERIFY MOTOR BEING SERVED IS NEMA MG-31 RATED PRIOR TO FINAL TERMINATIONS AND NOTIFY A/E IF DISCREPANCIES ARE FOUND.
27. CONTRACTOR IS RESPONSIBLE FOR COORDINATING NEW ELECTRIC SERVICE VOLTAGE AND AMP REQUIREMENTS WITH ELECTRIC UTILITY. COORDINATION PERFORMED BY ENGINEER EARLY IN DESIGN PROCESS IS PRELIMINARY IN NATURE AND THEREFORE SUBJECT TO CHANGE, CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL SERVICE REQUIREMENTS INCLUDING METERING REQUIREMENTS, VOLTAGE AND AMPACITY.

ELECTRICAL EQUIPMENT

- SWITCHBOARD OR DISTRIBUTION PANEL
- PANELBOARD – FLUSH OR SURFACE MOUNT AS INDICATED ON PLAN SCHEDULE
- PLYWOOD TERMINAL BOARD, FOR TELEPHONE SYSTEM UNLESS NOTED, 4' X 8' X 3/4" UNLESS OTHERWISE NOTED

POWER DEVICE SCHEDULE

SYMBOL	WIRING DEVICES, DISCONNECT SWITCHES AND MOTOR CONTROL
	20A DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE
TP	20A DUPLEX RECEPTACLE, TAMPER-PROOF, 18" AFF UNLESS NOTED OTHERWISE
	20A SIMPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE
	20A QUADDRAPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE
AC	20A DUPLEX RECEPTACLE ABOVE COUNTER/ COUNTER BACK SPLASH
E	SPECIAL PURPOSE RECEPTACLE AS NOTED IN PLAN VIEWS
	USB OUTLET
	FLOOR RECEPTACLE
	FLOOR RECEPTACLE WITH DATA. FOR TELEPHONE OR DATA, PROVIDE 1"C WITH PULL STRING UP TO 6" ABOVE ACCESSIBLE CEILING LOCATION FOR WIRING BY OTHERS
	JUNCTION BOX FOR DIRECT CONNECTION AS NOTED IN PLAN VIEWS
	PUSH BUTTON CONTROL AS NOTED IN PLAN VIEW. PROVIDE A SINGLE GANG JUNCTION BOX WITH 3/4"C WITH PULL STRING UP TO 6" ABOVE CEILING FOR WIRING BY OTHERS
	MOTOR LOCATION AS NOTED IN PLAN VIEWS
	DISCONNECT SWITCH – (200/3/150) DENOTES (AMPS/POLE/FUSE); "NF" DENOTES NON-FUSED, NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE
	COMBINATION STARTER DISCONNECT SWITCH – (200/3/150) DENOTES (AMPS/POLE/FUSE); "NF" DENOTES NON-FUSED, NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE, NEMA STARTER AS INDICATED IN PLAN VIEW
$M	MOTOR RATED SWITCH, MANUAL MOTOR STARTER WITH THERMAL OVERLOAD

GENERAL NOTES APPLY TO ALL DEVICES:

1. ALL DEVICES USED TO SUPPORT SPECIFIC EQUIPMENT PROVIDED BY OTHERS ARE TO BE COORDINATED WITH PROVIDER OF EQUIPMENT FOR NEMA PLUG CONFIGURATION AND WIRING.

MOUNTING HEIGHTS

TOGGLE AND DIMMER SWITCHES:
- 48" AFF TO CENTER OF SWITCH

RECEPTACLES:
- FINISHED AREAS-18" AFF TO CENTER OF RECEPTACLE
- UNFINISHED AREAS-48" AFF TO CENTER OF RECEPTACLE
- WATER COOLERS-DIRECTLY BEHIND COOLER – COORDINATE ELEVATION. COOLER TO BE INSTALLED PRIOR TO ROUGH-IN
- ABOVE COUNTER-6" ABOVE COUNTER/BACKSPLASH TO CENTER OF RECEPTACLE

DATA OUTLETS:
- FINISHED AREAS-18" AFF TO CENTER OF OUTLET
- UNFINISHED AREAS-48" AFF TO CENTER OF OUTLET
- ABOVE COUNTER-6" ABOVE COUNTER/BACKSPLASH TO CENTER OF OUTLET

TELEPHONE OUTLETS:
- FINISHED AREAS-18" AFF TO CENTER OF OUTLET
- UNFINISHED AREAS-48" AFF TO CENTER OF OUTLET
- WALL MOUNTED TELEPHONES-48" AFF TO CENTER OF OUTLET
- ABOVE COUNTER-6" ABOVE COUNTER/BACKSPLASH TO CENTER OF OUTLET

WALL MOUNTED EMERGENCY LIGHTING FIXTURES:
- 84" AFF TO CENTER OF FIXTURE
- CENTERED 3" ABOVE TOP OF DOOR FRAME TO BOTTOM OF FIXTURE WHERE MOUNTED ABOVE DOOR

MISCELLANEOUS

- (1) DRAWING NOTE REFERENCE (I.E. NOTES BY SYMBOL)
- CONNECTION INTO EXISTING
- JUNCTION BOX. A RECESSED SINGLE GANG BOX, BLANK COVERPLATE, WITH 3/4" C. STUBBED UP TO 4" ABOVE CEILING.
- TELEPHONE OR DATA OUTLET (SINGLE PORT) A RECESSED SINGLE GANG JUNCTION BOX, BLANK COVERPLATE, WITH 1" C. STUBBED UP TO 4" ABOVE CEILING.
- DATA OUTLET (MULTI PORT) ADJACENT NUMBER INDICATES QUANTITIES .A SINGLE OR DOUBLE GANG JUNCTION BOX AS APPROPRIATE FOR NUMBER OF PORTS, BLANK COVERPLATE, MULTIPLE 1" C.'S STUBBED UP TO 4" ABOVE CEILING.
- EXISTING SINGLE DATA OUTLET TO REMAIN. NUBER ADJACENT INDICATES NUMBER OF PORTS WHERE KNOW. EC INDICATES BLANK COVERPLATE.
- CR CARD READER. A SINGLE GANG JUNCTION BOX, BLANK COVERPLATE, WITH 3/4" C. STUBBED UP TO 4" ABOVE CEILING.

FIRE ALARM EXPANSION

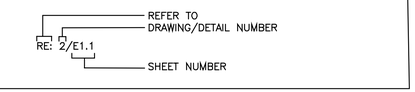
THE CONTRACTOR SHALL EMPLOY A FIRE ALARM PLANNING SUPERINTENDENT, CERTIFIED BY THE STATE FIRE MARSHAL'S OFFICE, TO DESIGN AND INSTALL A FIRE ALARM SYSTEM.

THE FIRE ALARM PLANNING SUPERINTENDENT SHALL PREPARE PERMIT DOCUMENTS, USING EXACT DEVICES TO BE PROVIDED BY THE MANUFACTURER, AND SHALL BE RESPONSIBLE TO INSURE THAT THE DESIGN MEETS ALL OF THE REQUIREMENTS OF NFPA, ADA, NEC, ALL LOCAL CODES AND AMENDMENTS, AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

MODIFICATION TO THE EXISTING FIRE ALARM TO ACCOMMODATE THE NEW FACILITY AND THE RENOVATED AREAS WITHIN THE EXISTING FACILITY. WHERE NEW EQUIPMENT MUST BE ADDED IT SHALL BE NON-PROPRIETARY PER CITY OF MANSFIELD REQUIREMENTS

CITY OF MANSFIELD FIRE DEPARTMENT ALLOWS KNOX 3502 KEY SWITCH FOR SHUNT TRIPPING THE MAIN ELECTRICAL SERVICE. CONSTRUCTION DRAWINGS INDICATES MAIN SERVICE RATED DISCONNECT SWITCH. IF THE CONTRACTOR DECIDES TO UTILIZE THE KNOX BOX 3502 KEY SWITCH INSTALL PER MANUFACTURERS RECOMMENDATIONS.

DRAWING/DETAIL REFERENCE



ABBREVIATIONS

A	AMPS
AC	ABOVE COUNTERTOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
D	DEPTH
DEG	DEGREES
DIS	DISCONNECT
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
EA	EACH
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FT.	FOOT, FEET
FVNR	FULL-VOLTAGE, NON-REVERSING
G	GROUND
GA.	GAUGE
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
GRS	GALVANIZED RIGID STEEL
H	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
IER	INTEGRATED EQUIPMENT RATING
IG	ISOLATED GROUND
IN.	INCH, INCHES
J-BOX	JUNCTION BOX
kcmil	1000 CIRCULAR MILS
kV	KILOVOLT
kVA	KILOVOLT-AMPS
kVAR	KILOVOLT-AMPS REACTIVE
kW	KILOWATT
kWH	KILOWATT-HOUR
L	LENGTH
LB	POUNDS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.	NUMBER
N/O,N/C	NORMALLY OPEN, NORMALLY CLOSED
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PDU	POWER DISTRIBUTION UNIT
PF	POWER FACTOR
PH	PHASE
PROVIDE	FURNISH AND INSTALL
PVC	POLYVINYL CHLORIDE
RE:	REFERENCE, REFER
RLA	RUNNING LOAD AMPS
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
THRU	THROUGH
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UL	UNDERWRITERS LABORATORIES, INC.
U.O.N.	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF DEVICE. RECEPTACLES SHALL BE WEATHER-RESISTANT TYPE GFI RECEPTACLES IN WEATHERPROOF WHILE IN-USE BOX.
XFMR	TRANSFORMER

BASIS OF ELECTRICAL DESIGN

PRIMARY CODES:

ELECTRICAL:	2017 NEC/2023 NEC PER STATE OF TEXAS ADOPTION.
ENERGY:	2021 INTERNATIONAL ENERGY CODE (WITH CITY AMENDMENTS).
FIRE:	2021 INTERNATIONAL FIRE CODE (WITH CITY AMENDMENTS).
BUILDING:	2021 INTERNATIONAL BUILDING CODE (WITH CITY AMENDMENTS).
ACCESSIBILITY:	AMERICAN'S WITH DISABILITIES ACT (ADA); TEXAS ACCESSIBILITY STANDARDS (TAS); TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR)

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△1 03/28/2024 REVISION 3 - CITY COMMENTS

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Drawing Title:
ELECTRICAL LEGEND

Project No.	Date:
2307	1/12/2024
	Sheet No. E0.1

2347.0328.3804

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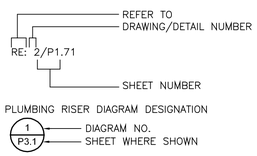
PLUMBING SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.
2. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID.
3. CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. NOTIFY THE ARCHITECT OF ANY CONFLICTS.
4. BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTOR'S FAILURE TO FIELD COORDINATE.
5. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.
6. LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING THE CHANGE.
7. PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE PLUMBING EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.
8. COORDINATE THE LOCATION OF ALL WALL CLEANOUTS, ACCESS DOORS, ETC WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC EXISTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION.
9. COORDINATE ELECTRICAL REQUIREMENTS OF APPROVED PLUMBING EQUIPMENT WITH THE ELECTRICAL SUB-CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL EQUIPMENT, DEVICES, WIRING, OR CONDUIT.
10. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN PLUMBING EQUIPMENT UNLESS NOTED OTHERWISE. PROVIDE ISOLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
11. PLUMBING VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES AND A MINIMUM OF 5 FEET FROM EXTERIOR PERIMETER WALLS.
12. SOME PIPES SHOWN MAY BE SHOWN OFFSET FOR CLARITY.
13. PLUMBING FIXTURES AND TRIM OF LIKE KIND SHALL BE OF THE SAME MANUFACTURER THROUGHOUT THE PROJECT. TYPICAL CATEGORIES INCLUDE THE FOLLOWING:
    - A. WATER CLOSETS, LAVATORIES, URINALS
    - B. ELECTRIC WATER COOLERS, DRINKING FOUNTAINS
    - C. FAUCETS, MIXING VALVES
    - D. TAIL PIECE, FIXTURE TRAPS, ESCUTCHEONS, ARM EXTENSIONS, STRAINERS
    - E. FIXTURE CARRIERS, FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, OVERFLOW DRAINS
    - F. COUNTER TOP SINKS
14. PROVIDE WATER HAMMER ARRESTERS BETWEEN THE NEXT TO LAST AND LAST FIXTURE AT EACH BATTERY OF PLUMBING FIXTURES IN ACCORDANCE WITH THE WATER HAMMER ARRESTER SCHEDULE AND THE PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201.
15. ALL SANITARY WASTE PIPING WITHIN THE BUILDING ENVELOPE SHALL HAVE MINIMUM SLOPES AS REQUIRED BY THE LOCAL CODE AUTHORITY. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS INDICATED ON FLOOR PLANS PRIOR TO INSTALLATION OF ANY SITE UTILITIES AND CONNECTION INTO EXISTING SERVICES.
16. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY'S STANDARD (TAS). PLUMBING CONTRACTOR SHALL PROVIDE PLUMBING FIXTURES WITH FLUSH VALVE HANDLES LOCATED ON THE WIDE SIDE OF EACH STALL.
17. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.
18. ALL FLOOR DRAIN AND FLOOR SINK TRAPS SHALL BE INSTALLED WITH TRAP GUARDS TO PREVENT SEWER GASES FROM ENTERING THE BUILDING.

DRAWING/DETAIL REFERENCE



ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	L	LENGTH
AFF	ABOVE FINISHED FLOOR	LB	POUNDS
AHU	AIR HANDLING UNIT	LRA	LOCKED ROTOR AMPS
APPROX	APPROXIMATE	MAX	MAXIMUM
BD	BUILDING DRAIN (BELOW FLOOR)	MCA	MINIMUM CIRCUIT AMPACITY
		MIN	MINIMUM
B.F.G.	BELOW FINISHED GRADE	MSB	MOP SINK BASIN
BS	BUILDING SEWER (OUTSIDE OF BLDG)	N/A	NOT APPLICABLE
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CU	COPPER, CONDENSING UNIT		
CW	DOMESTIC COLD WATER	NFWH	NON-FREEZE WALL HYDRANT
D	EQUIPMENT DRAIN	N/O,N/C	NORMALLY OPEN, NORMALLY CLOSED
DCO	TWO-WAY GRADE CLEANOUT	O/C	ON CENTER
DEG	DEGREES	OFD	ROOF OVERFLOW DRAIN
DSN	DOWNSPOUT NOZZLE	PCO	PLUG CLEANOUT
(E)	EXISTING	PH	PHASE
EQUIP	EQUIPMENT	PROVIDE	FURNISH AND INSTALL
EWC	ELECTRIC WATER COOLER	PSI	POUNDS PER SQUARE INCH
°F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEANOUT	REF.	REFERENCE, REFER
FCU	FAN COIL UNIT	RLA	RUNNING LOAD AMPS
FD	FLOOR DRAIN	RM	ROOM
FS	FLOOR SINK	RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
FT.	FOOT, FEET		
FVC	FIRE VALVE CABINET	RPZ	REDUCED PRESSURE ZONE
G	NATURAL GAS	S	SINK
GCO	GRADE CLEANOUT	SD	STORM DRAIN (BELOW FLOOR)
GWH	NATURAL GAS WATER HEATER	ST	STORM WATER (ABOVE CEILING)
H	HEIGHT	SSD	SUBSURFACE DRAIN
HB	HOSE BIBB	THRU	THROUGH
HP	HORSEPOWER	TP	TRAP PRIMER
HW	DOMESTIC HOT WATER	TYP	TYPICAL
HWC	DOMESTIC HOT WATER CIRCULATION LOOP	U	URINAL
		UL	UNDERWRITERS LABORATORIES, INC.
HWTM	HOT WATER TEMPERATURE MAINTENANCE CABLE	V	SANITARY VENT
		VTR	SANITARY VENT THRU ROOF
HZ	HERTZ	W	SANITARY WASTE (ABOVE FLOOR)
IE	INVERT ELEVATION	WC	WATER CLOSET
IN.	INCH, INCHES	WCO	WALL CLEANOUT
J-BOX	JUNCTION BOX	W/	WITH
kW	KILOWATT	W/O	WITHOUT

FIRE PROTECTION GENERAL NOTES

1. PROVIDE A COMPLETE AND OPERABLE WET PIPE FIRE SUPPRESSION SYSTEM FOR CONDITIONED SPACES INSIDE THE BUILDING AND A DRY PIPE SYSTEM FOR AREAS SUBJECT TO FREEZING TEMPERATURES INSIDE OR ATTACHED TO THE BUILDING, CONFORMING TO NFPA 13/13R, LOCAL CODES AND ORDINANCES AND THE AUTHORITY HAVING JURISDICTION.
2. THE FIRE SUPRESSION SYSTEM SHALL CONFORM TO ALL APPLICABLE NFPA CODES IN ADDITION TO THE FOLLOWING:
    - A. VELOCITIES IN MAINS SHALL NOT EXCEED 15 FEET PER SECOND.
    - B. VELOCITIES IN BRANCHES AND BRANCH MAINS SHALL NOT EXCEED 20 FEET PER SECOND.
    - C. HYDRAULIC CALCULATIONS SHALL SHOW THE ELEVATIONS OF INDIVIDUAL HEADS AND REFERENCE POINTS (NODES).
    - D. HYDRAULIC CALCULATIONS SHALL DESCRIBE EACH INDIVIDUAL HEAD IN THE ZONE BEING CALCULATED. HYDRAULIC CALCULATIONS USING "K" FACTORS TO DESCRIBE WHOLE BRANCH LINES ARE NOT ACCEPTABLE.
    - E. PROVIDE A 24-VOLT WATER ALARM BELL POWERED BY THE FACP AND SWITCHED ONLY BY THE WATER FLOW SWITCHES.
    - F. SUBMITTALS SHALL BE COMPLETE AND INCLUDE: HYDRAULIC CALCULATIONS, SHOP DRAWINGS AND MATERIAL SUBMITTAL.
4. SUBMITTALS SHALL BE SUBMITTED TO A CITY OF MANSFIELD APPROVED 3RD PARTY FPE REVIEWER AND TO THE ARCHITECT FOR REVIEW PRIOR TO SUBMITTAL TO THE FIRE MARSHALL'S OFFICE. SUBMITTALS NOT CONFORMING TO THE ABOVE WILL BE REJECTED WITH NO COMMENT.
5. WHERE NEW FIRE ALARM PANEL IS REQUIRED TO ACCOMMODATE THE NEW FIRE PROTECTION SYSTEM, THE PANEL SHALL UTILIZED A CELLULAR COMMUNICATOR FOR CENTRAL STATION MONITORING.
6. FIRE SUPPRESSION SYSTEM PIPING 2-INCHES AND SMALLER SHALL BE STEEL CONSTRUCTION, SCHEDULE 10 WITH ROLLED GROOVE COUPLERS. FIRE SUPPRESSION SYSTEM PIPING 2.5-INCHES AND LARGER SHALL BE STEEL CONSTRUCTION, SCHEDULE 40 WITH THREADED ENDS OR MECHANICAL COUPLERS. WELDED OUTLETS MAY BE USED IF THE OUTLET IS A MINIMUM OF TWO PIPE SIZES SMALLER THAN THE PIPING THE OUTLET IS ATTACHED TO.
7. POWDER DRIVEN STUDS (SHOT STUDS) ARE NOT ALLOWED AS HANGER ANCHORS.
8. PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECT TO POSSIBLE DAMAGE AS REQUIRED BY CODE. IN ROOMS WITH NO CEILINGS THAT ARE EXPOSED TO THE PUBLIC, PROVIDE BRASS UPRIGHT SPRINKLER HEADS AND PAINT THE EXPOSED PIPE RED.
9. THE FIRE DEPARTMENT CONNECTION AND TRIM SHALL HAVE A NICKEL FINISH UNLESS ANOTHER COLOR/MATERIAL IS REQUIRED BY CODE.
10. COORDINATE ALL SPRINKLER DROPS FOR HEAD LOCATION WITH LIGHTS, CEILING GRIDS, STRUCTURAL STEEL, DUCTWORK AND EQUIPMENT LOCATIONS. INSTALL ALL SPRINKLER HEADS CENTERED IN TILES OF LAY-IN OR GRID-TYPE CEILINGS.
11. FIRE PROTECTION CONTRACTOR TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT JOB BEFORE PROCEEDING WITH FABRICATION OF WORK.
12. FIRE PROTECTION CONTRACTOR TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION AND APPROVED INSTALLATION.
13. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SYSTEM FLOWS SHALL BE PROVIDED WITH A TAMPER SWITCH OR CHAIN WITH PADLOCK AS REQUIRED.
14. ALL FIRE PROTECTION PIPING IN FINISHED AREAS SHALL BE CONCEALED.
15. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL. PROVIDE FIRESTOPPING AT ALL PENETRATIONS OF FIRE AND/OR SMOKE RATED FLOORS, WALLS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
16. FLOW TEST AND HYDRAULIC CALCULATIONS SHALL BE PERFORMED. SUBMIT SPRINKLER DRAWINGS, CALCULATIONS AND ADDITIONAL INFORMATION AS REQUIRED BY THE LOCAL AUTHORITY OR INSURANCE UNDERWRITER.

SYMBOLS

SYMBOL	DESCRIPTION
	SHUT-OFF / ISOLATION VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	PLUG VALVE / GAS COCK
	CHECK VALVE
	STRAINER
	CALIBRATED BALANCING VALVE
	GAS PRESSURE REGULATOR
	FLOW SWITCH
	UNION (DIELECTRIC)
	VALVE IN RISER
	END RISE (90° ELL)
	END DROP (90° ELL)
	RISE OR DROP
	TEE OUT OF TOP OF PIPE
	TEE OUT OF BOTTOM OF PIPE
	CAP ON END OF PIPE
WCO	WALL CLEANOUT
PCO	PLUG CLEANOUT
DCO	TWO WAY CLEANOUT
GCO	GRADE CLEANOUT
	NON-FREEZE WALL HYDRANT OR HOSE BIBB
FD	FLOOR DRAIN
FCO	FLOOR CLEANOUT
	SHUT-OFF / ISOLATION VALVE
	OS&Y GATE VALVE
FDC	FIRE DEPARTMENT SIAMESE CONNECTION (WALL)
FDC	FIRE DEPARTMENT SIAMESE CONNECTION (FREE STANDING)
	PRESSURE GAUGE
	ALARM CHECK VALVE
	DRY ALARM CHECK VALVE
	DRY ALARM CHECK VALVE WITH QUICK OPENING DEVICE
	DELUGE OR PRE-ACTION ALARM CHECK VALVE

LINE TYPES

SYMBOL	DESCRIPTION
W	SANITARY SEWER (ABOVE CEILING)
BD	SANITARY SEWER (BELOW FLOOR, BUILDING DRAIN)
BS	SANITARY SEWER (OUTSIDE OF BUILDING, BUILDING SEWER)
GW	GREASY WASTE (ABOVE CEILING)
GD	GREASY WASTE (BELOW FLOOR)
D	EQUIPMENT DRAIN (ABOVE CEILING)
ST	STORM WATER PIPING (ABOVE CEILING)
SD	STORM WATER PIPING (BELOW FLOOR/GRADE)
OFD	OVERFLOW DRAIN (ABOVE CEILING)
SSD	SUBSURFACE DRAINAGE
	SANITARY VENT
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER CIRCULATION
G	NATURAL GAS
F	FIRE PROTECTION MAIN WATER SUPPLY
SP	STANDPIPE FIRE PROTECTION WATER
WP	AUTOMATIC FIRE SPRINKLER (WET)
PA	AUTOMATIC FIRE SPRINKLER (PRE-ACTION)
DP	AUTOMATIC FIRE SPRINKLER (DRY)
A	COMPRESSED AIR
	DIRECTION OF FLOW
	DIRECTION OF PIPE SLOPE DOWN
	PIPE DEMOLITION

MISCELLANEOUS

1	DRAWING NOTE REFERENCE (I.E., NOTES BY SYMBOL)
	CONNECTION INTO EXISTING

DEMOLITION WORK NOTES

GENERAL

1. EXISTING WORK SHOWN ON PLANS IS FROM AVAILABLE AS-DESIGNED DOCUMENTS AND LIMITED FIELD OBSERVATIONS. ACTUAL CONDITIONS MAY VARY; FIELD VERIFY EXISTING WORK AND MAKE MINOR ADJUSTMENTS NECESSARY TO COMPLETE WORK. IF EXISTING CONDITIONS PROHIBIT WORK, NOTIFY THE ARCHITECT FOR DIRECTION, AS REQUIRED.
2. WHERE EXISTING EQUIPMENT IS LOCATED SUCH THAT IT IS ALONG THE TOP OF NEW WALLS TO DECK, IT SHALL BE RELOCATED. COORDINATE SUCH WORK WITH OTHER TRADES. RELOCATED EQUIPMENT SHALL BE TO A LOCATION THAT ALLOWS ACCESS FOR PERIODIC SERVICING AND REPAIR.
3. COORDINATE WITH ALL TRADES FOR REQUIRED CEILING REMOVAL IN EXISTING BUILDING. NOTIFY THE ARCHITECT AND OWNER PRIOR TO COMMENCING REMOVAL. REMOVE ONLY THAT PORTION OF THE CEILING NECESSARY TO ACCESS AND COMPLETE THE WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, CEILING IS TO BE REINSTALLED. REPLACE ANY DAMAGED CEILING TILES WITH NEW TILES TO MATCH EXISTING.
4. DEMOLITION SHALL EXTEND TO POINTS OF CONNECTION WITH LIVE SERVICES (PANELBOARDS, PIPING MAINS, ETC). DEMOLITION SHALL NOT PERMIT ABANDONMENT OF ANY PORTION OF ANY SYSTEM UNLESS SPECIFICALLY NOTED AS "ABANDON IN PLACE" OR "TO REMAIN".
5. DEMOLITION SHALL INCLUDE EQUIPMENT, PIPING, SUPPORTS, FITTINGS, ACCESSORIES, CONTROLS, WIRING, CONDUIT, ETC, IN THEIR ENTIRETY UNLESS OTHERWISE NOTED.
6. COORDINATE AND SCHEDULE WORK IN AREAS OUTSIDE LIMITS OF CONSTRUCTION, PARTICULARLY FOR UNDER FLOOR WORK IN AREAS BELOW.
7. VERIFY THE CONDITION OF ALL EXISTING EQUIPMENT AND PLUMBING FIXTURES WITHIN THE PROJECT SCOPE. VERIFY EXACT SIZES OF EXISTING PIPING BEFORE COMMENCING DEMOLITION WORK. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.
8. PATCH OPENINGS IN WALLS TO MAINTAIN THE INTEGRITY OF THE WALL WHERE AIR DEVICES HAVE BEEN REMOVED. REFER TO ARCHITECTURAL DRAWINGS/SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
9. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO LOCATE AND PRESERVE UNDERGROUND UTILITIES.

EQUIPMENT

1. THE OWNER HAS THE FIRST RIGHT-OF-REFUSAL FOR ALL DEMOLISHED EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ANY EQUIPMENT REFUSED BY THE OWNER.
2. ALL REMOVED EQUIPMENT SHALL BE MAINTAINED IN GOOD CONDITION. REMOVED EQUIPMENT NOT INDICATED FOR RE-USE SHALL REMAIN THE PROPERTY OF THE OWNER. REMOVE THE EQUIPMENT AND DELIVER IT TO THE OWNER. SHOULD THE OWNER DECLINE THE POSSESSION OF THE REMOVED EQUIPMENT, IT SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR REMOVAL FROM SITE.

BASIS OF PLUMBING DESIGN

PRIMARY CODES:

PLUMBING:	2018 INTERNATIONAL PLUMBING CODE (WITH CITY AMENDMENTS).
GAS:	2018 INTERNATIONAL FUEL GAS CODE (WITH CITY AMENDMENTS).
FIRE PROTECTION:	2018 INTERNATIONAL FIRE CODE (WITH CITY AMENDMENTS)
ENERGY:	2018 INTERNATIONAL ENERGY CODE (WITH AMENDMENTS)

WATER HAMMER ARRESTER SCHEDULE

P.D.I. SIZE	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

NOTES:
1. ALL WHA'S SHALL BE PISTON TYPE WITH EPDM O-RINGS, SIOUX CHIEF'S SERIES 650 OR EQUAL.
2. ALL WHA'S SHALL BE ANSI/ASSE 1010 2004 CERTIFIED AND APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED.
3. SIZE AND LOCATE WATER HAMMER ARRESTERS IN ACCORDANCE WITH PDI PAMPHLET PDI-WH-201.

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⚠1 03/28/2024 REVISION 3 - CITY COMMENTS

PERMIT SET

Drawing Title:
PLUMBING
NOTES & LEGENDS

Project No.	Date:
2307	1/12/2024
	Sheet No. P0.1

2347.0328.3804

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