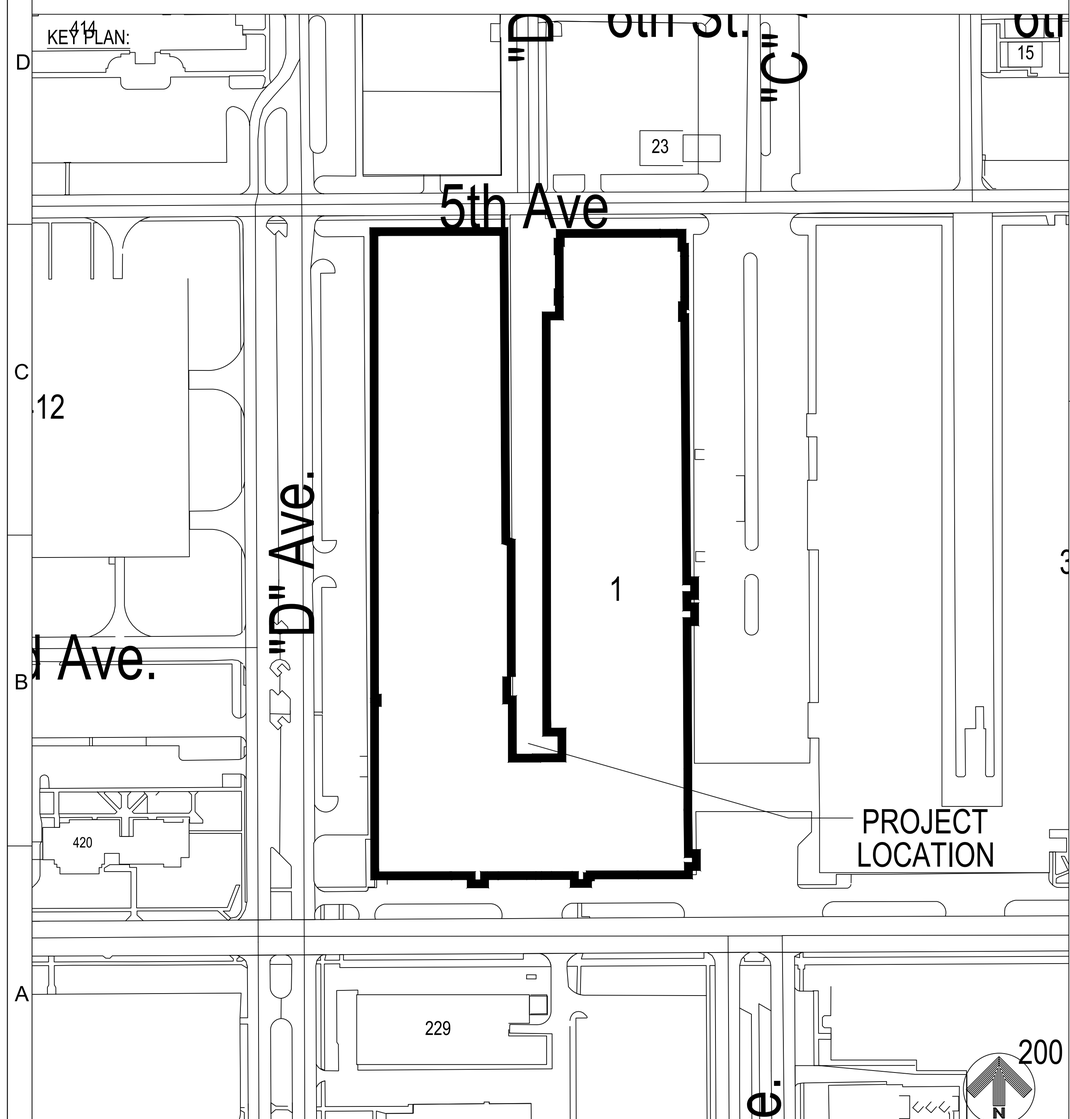
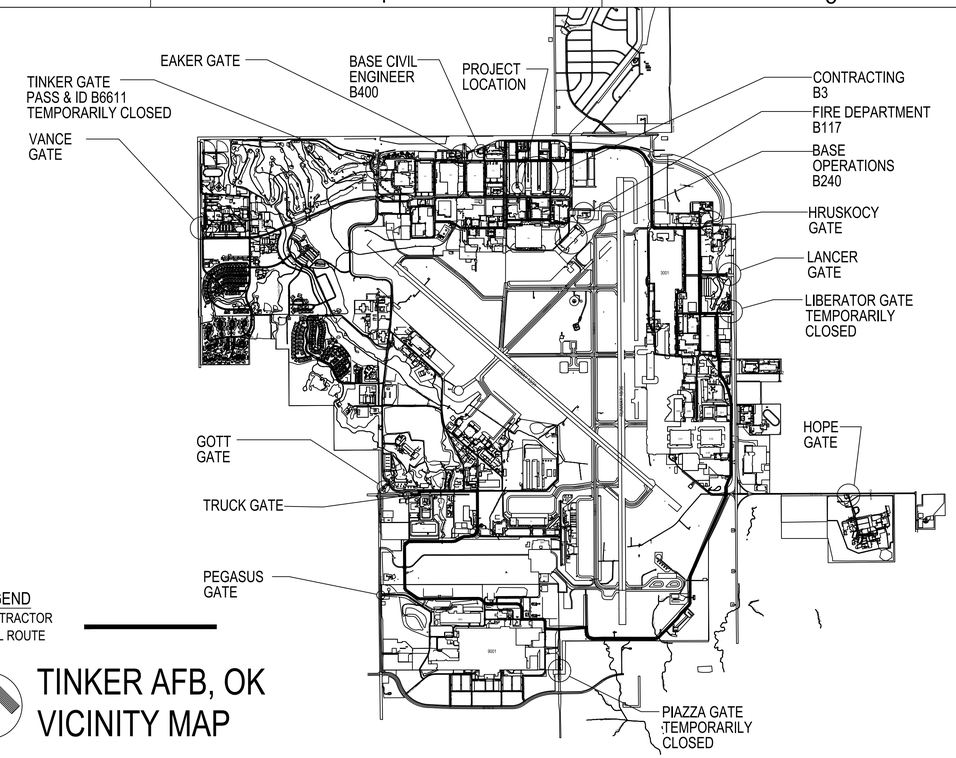
WWYK160073
REPAIR FIRE RISER
SE CORNER,
BUILDING 1 (FSDI)





TINKER AFB, OK
VICINITY MAP

GENERAL NOTES:

1. BRAND NAMES: REFERENCE TO SPECIFIC BRAND NAMES OR COMPANIES IS FOR THE PURPOSE OF ESTABLISHING MINIMUM QUALITY STANDARDS, IDENTIFICATION AND GUIDANCE AND IS NOT INTENDED TO LIMIT SELECTION OF OTHER MANUFACTURERS THAT ARE EQUAL OR EXCEED THE SPECIFIED ITEMS IN TERMS OF PHYSICAL PROPERTIES, INCLUDING, COLOR RANGE, FINISH, DURABILITY, APPEARANCE, PERFORMANCE CHARACTERISTICS, AND OTHER FACTORS. OTHER PRODUCTS, MATERIALS, COLORS AND SYSTEMS, MAY BE SUBMITTED FOR EVALUATION AND APPROVAL/DISAPPROVAL BY THE CONTRACTING OFFICER.
2. THIS SET OF CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED AS A WHOLE IN THAT THE GENERAL CONTRACTOR AND ALL THE SUB-CONTRACTORS ARE RESPONSIBLE FOR THE INFORMATION PRESENTED ON ALL SHEETS ON THE SET OF DRAWINGS AND ALL SECTIONS OF THE SPECIFICATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ERECTING ALL CONSTRUCTION FENCING AND BARRICADES AS REQUIRED TO PROTECT CONSTRUCTION MATERIAL AND TO PREVENT ANY UNAUTHORIZED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE.
4. ANY DAMAGE TO THE EXISTING GROUNDS OR FACILITIES CAUSED BY CONSTRUCTION TRAFFIC OR ANY CONSTRUCTION OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. ALL WORK NOTED & LOCATED IN THESE DOCS SHALL BE UNDERSTOOD BY THE CONTRACTOR TO REQUIRE ALL NEW LABOR & MATERIALS UNLESS SPECIFICALLY NOTED TO BE "EXISTING" OR "BY OTHERS".

PROJECT DRAWING INDEX

SEQ.	SHT.	SHEET TITLE
		GENERAL
1	G-101	GENERAL NOTES & VICINITY MAP
		DISCIPLINE
2	C-101	CIVIL SITE/UTILITY IMPROVEMENTS
3	FP-101	PARTIAL FIRE PROTECTION PLAN, B1
4	AME-101	ARCHITECTURAL, MECHANICAL, ELECTRICAL FOR NEW FIRE RISER ROOM
5	FP-301	PARTIAL FIRE PROTECTION PLAN, B1

SIGNATURES

CORROSION ENGINEER: (CECE)	DATE:
CE OPERATIONS: (CECO)	DATE:
ZONE MANAGER:	DATE:
CONSTRUCTION MANAGEMENT: (CECE)	DATE:
FIRE DEPARTMENT: (CEFT)	DATE:
SAFETY:	DATE:
INDUSTRIAL HYGIENE:	DATE:
ENVIRONMENTAL:	DATE:
ASBESTOS EVALUATION:	DATE:
COMMUNICATIONS: (COMM)	DATE:
USING AGENCY:	DATE:
REVIEWED BY:	DATE:
REVIEWED BY:	DATE:
DESIGN MANAGER: (CECE)	DATE:
CHIEF DESIGN BRANCH: (CECE)	DATE:
CHIEF ENGINEER DIR: (CECE)	DATE:
BASE CIVIL ENGINEER: (CE)	DATE:

AS RECORDED
Date Mar 18th, 2024

AFMC
AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION
WWYK160073
REPAIR FIRE RISER
SE CORNER,
BUILDING 1 (FSDI)
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION
1	6/13/2022	CHANGES TO ANSWER RFI 1
2	12/1/2022	ADDITION OF NEW FIRE RISER ROOM
3	12/06/2022	CIVIL AND ELECTRICAL REVISION

MANAGEMENT INFORMATION
ISSUE DATE:8/13/2021
DESIGN GROUP:SRM
DESIGNED BY:K LEE
DRAWN BY:K LEE
CHECKED BY:R LANE
DESIGN FILE LOCATION:
Engr\Design\2010s\2016\20160730_Support\0_3_Drawings\Model

SHEET TITLE
GENERAL NOTES
AND
VICINITY MAP

SHEET NUMBER
G-101
SHEET 01 OF 05

GENERAL NOTES:

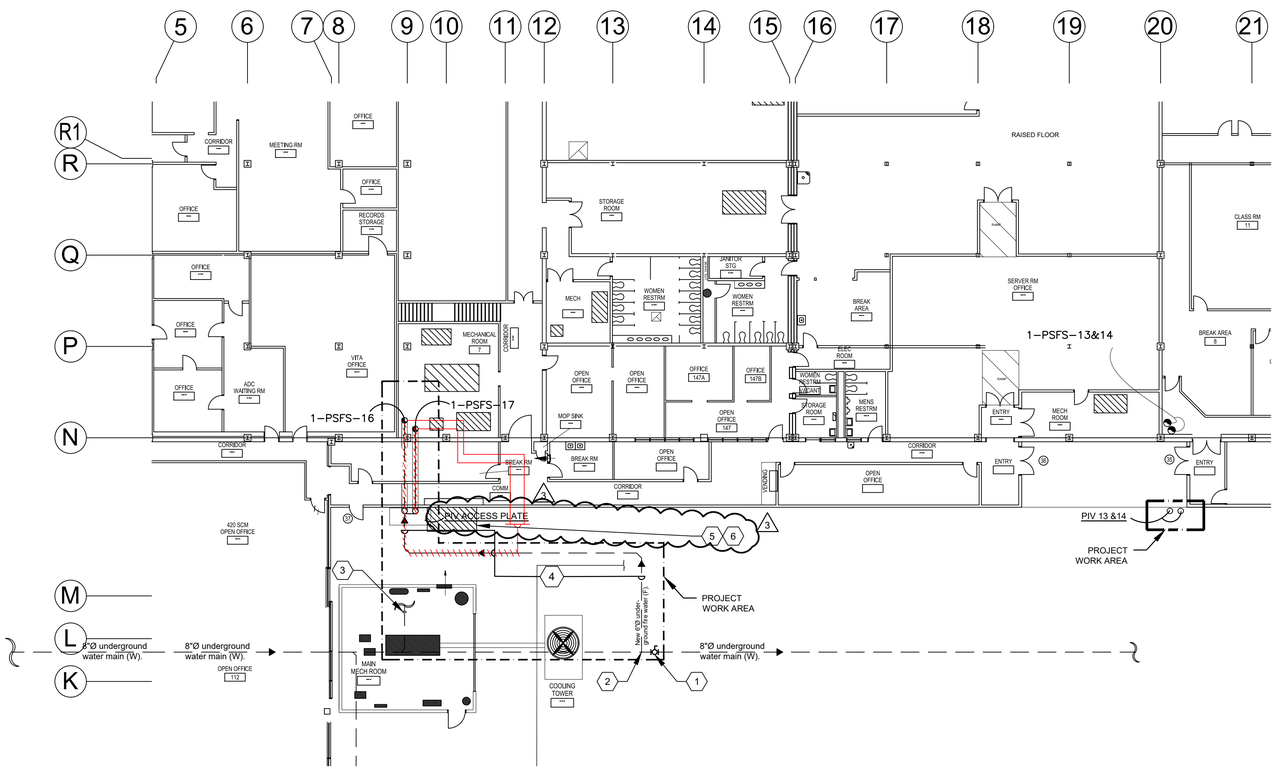
1.	CONTRACTOR SHALL FIELD VERIFY AND CONFIRM THE LOCATION OF EXISTING UTILITIES BEFORE ENGAGING IN CONSTRUCTION WORK.
2.	CONTRACTOR SHALL PROVIDE SIGNS AND BARRIERS FOR PEDESTRIAN PROTECTION AT THE FACILITY DURING CONSTRUCTION.

SYMBOL LEGEND:

— — F — —	NEW UNDERGROUND FIRE PIPING.
—— —— ——	EXISTING UNDERGROUND WATER/FIRE PIPING.
–X– –X– –X–	THE EXISTING UNDERGROUND FIRE PIPING TO BE DISCONNECTED FROM PIV 16 & 17 AND FROM THE EXISTING 8"Ø MAIN WATER LINE. BOTH ENDS CAPPED AND PIPE ABANDONED IN PLACE.
- - - - - - - -	WORK AREA BOUNDARY

KEY NOTES:

1	THE EXISTING 8-INCH SHUT OFF VALVE TO BE THE POINT OF DEMARCATION FOR OCWUT CONTROL.
2	NEW 8-INCH REDUCING TEE IN EXISTING 8-INCH WATER LINE TO THE NEW 6-INCH WATER SUPPLY.
3	TEMPORARILY REMOVE THE SUPPORT FOR THE BACKFLOW PREVENTER IN ORDER TO SAW CUT THE FLOOR AND CAP THE EXISTING 6"Ø WATER SUPPLY LINE MIDWAY BETWEEN THE CHILLER AND THE MECHANICAL ROOM WALL. THE SMALL RUN UNDER THE CHILLER SHALL BE ABANDONED IN PLACE.
4	FURNISH AND INSTALL NEW 6"Ø UNDERGROUND FIRE WATER PIPE ROUTE IN ACCORDANCE WITH CURRENT NFPA 24 TO FEED THE EXISTING POST INDICATOR VALVES PIV 16 & PIV 17. CONNECT TO THE EXISTING 8"Ø UNDERGROUND WATER MAIN LINE ON THE EXTERIOR OF THE BUILDING AS SHOWN. ALL PIPING USED IN NEW FIRE SERVICE LINES SHALL BE IN ACCORDANCE WITH CURRENT NFPA 24 PARAGRAPH 10.1.1, 10.1.1.2 OR 10.1.1.3.
5	LOCATION OF STRUCTURAL I BEAM.
6	DEMOLISH ADDITIONAL PCC SLAB AND SAND FILL UNDERNEATH. WHEN REPLACING THE SLAB, BLOCK OUT AROUND I BEAM, FILL SEPARATELY.



1 / C-101 CIVIL UTILITY IMPROVEMENTS FOR B1

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

AS RECORDED

Date Mar 18th, 2024

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION:
WWYK160073
REPAIR FIRE RISER,
SE CORNER, BUILDING 1 (FSD1)
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION
1	6/13/2022	CHANGES TO ANSWER RFI 1
2	12/06/2022	CIVIL REVISION

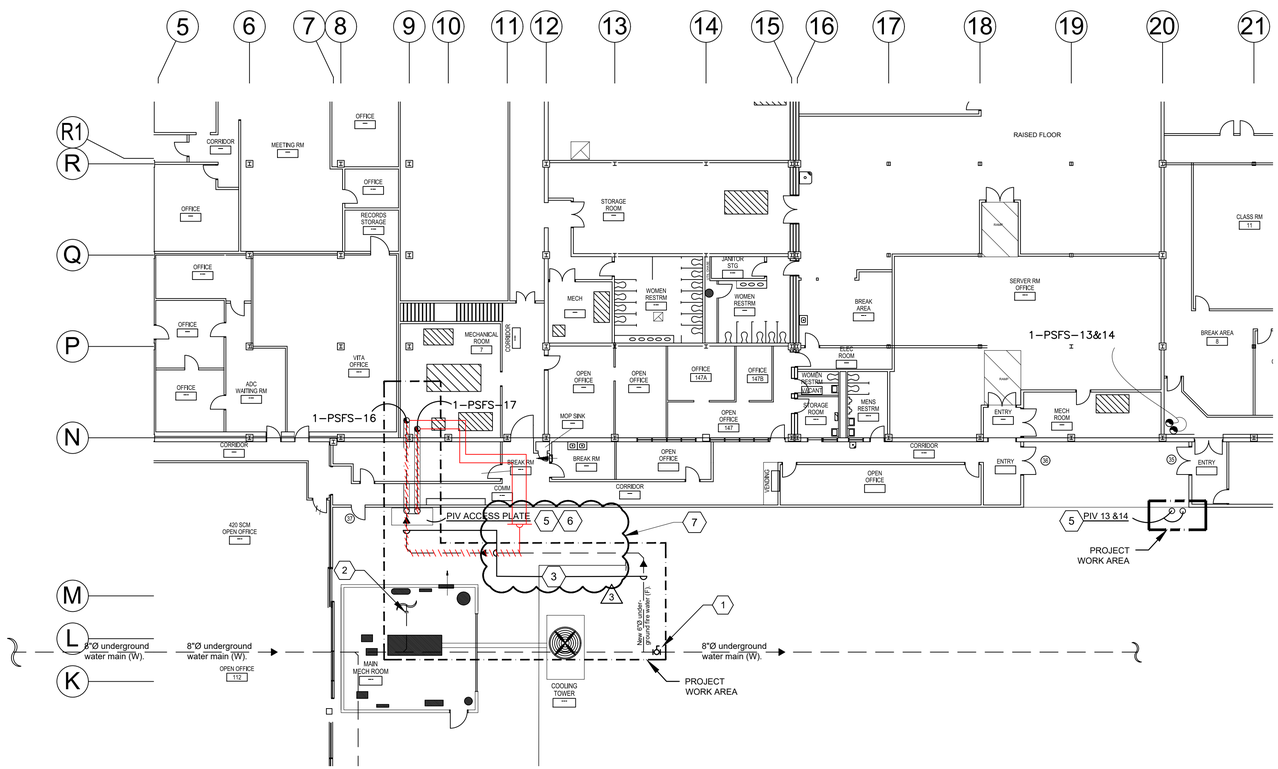
MANAGEMENT INFORMATION

ISSUE DATE: 8/14/2021
DESIGN GROUP: THDR SRM
DESIGNED BY: L. RODRIGUEZ
DRAWN BY: K. LEE
CHECKED BY: R. LANE
DESIGN FILE LOCATION:
\Engr\Design\2010s\2016\201600730_Support\0_3_Drawings

SHEET TITLE
CIVIL SITE | UTILITY IMPROVEMENTS

SHEET NUMBER
C-101

SHEET 02 OF 05



N

1
FP-101

PARTIAL FIRE PROTECTON PLAN FOR B1

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

GENERAL NOTES:

1.	SAFETY DEFICIENCIES IN EXISTING FACILITIES: EXISTING FACILITIES REQUIRING CORRECTION OF ANY FIRE SAFETY DEFICIENCY SHALL COMPLY WITH AIR FORCE INSTRUCTION 32-10141 (3 MARCH 2011) - PLANNING AND PROGRAMMING FIRE SAFETY DEFICIENCY CORRECTION PROJECTS.
2.	THE DRAWINGS, NOTES AND SPECIFICATIONS FOR THE WORK AREA ARE INTENDED TO PROVIDE GENERAL GUIDELINES AND REQUIREMENTS FOR THE NECESSARY REMOVAL, REPLACEMENT, RELOCATION AND REPAIR WORK WITHIN THE WORKING AREA FOR FIRE PROTECTION.
3.	DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND FACILITY TO DETERMINE THE EXISTING CONDITIONS INVOLVED IN AND EXPECTED BY THE WORK INDICATED BY ALL CONTRACT DOCUMENTS. CONTRACTOR'S FAILURE TO REASONABLE DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION.
4.	THE EXISTING WET PIPE FIRE SUPPRESSION SYSTEM WILL REMAIN IN USE AFTER REPAIRS TO THE THE EXISTING PSFS 16 AND PSFS 17 RISERS AND RELOCATION OF THE UNDERGROUND PIPING CONNECTIONS IN THE WORK AREA.
5.	SHUT OFF WATER SERVING PIV 13, 14, 16, AND 17 BEFORE STARTING ANY REPAIRS.
6.	EXISTING PIPING, HYDRANT, GASKETS, AND FITTINGS SHALL BE CLEANED AND INSPECTED IN ACCORDANCE WITH CURRENT NFPA 25 FOR ANY DAMAGE BEFORE PROCEEDING IN REPAIR WORK. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT FOR ANY CHANGE.
7.	THE CONTRACTOR SHALL DEMOLISH AND REPLACE COMPLETELY THE FIRE-SUPPRESSION DELUGE VALVE, PRESSURE GAUGES, PRESSURE REDUCING VALVE, CHECK VALVE, FLOW SWITCH, PRESSURE RELIEF VALVE, INSPECTOR TEST VALVES, AUXILIARY DRAIN VALVE AND AIR COMPRESSOR FOR DRY PIPE SYSTEM COMPLETELY FOR RISERS PSFS 16 AND PSFS 17.
8.	BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS OR IN PUDDLES UNDER AND AROUND PIPES TO PREVENT SETTLEMENT OR LATERAL MOVEMENT AND SHALL CONTAIN NO ASHES, CINDERS, REFUSE, ORGANIC MATTER, OR OTHER CORROSIVE MATERIALS. ROCKS SHALL NOT BE USED FOR BACKFILL.
9.	AFTER COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE A HYDROSTATIC TEST IN ACCORDANCE WITH CURRENT NFPA 25 PARAGRAPH 10.10.2.2.

APPLICABLE CODES AND STANDARDS:

FIRE PROTECTION:

- NFPA 1 FIRE CODE
- NFPA 13 STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLER PROTECTION
- NFPA 24 STANDARD FOR INSTALLATION OF PRIVATE FIER SERVICE MAINS AND THEIR APPURTENANCES
- NFPA 25 STANDARD FOR THE INSPECTION , TESTING, AND MAINTENANCE OF WATER - BASED FIRE PROTECTION SYSTEMS
- NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK
- NFPA 72 NATIONAL FIRE ALARM CODE
- NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERNATION, AND DEMOLITION OPERATIONS
- UFC 3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITIES (8 AUG 2016, WITH CHANGE 2).
- UFC 3-601-02 OPERATION AND MAINTENANCE: INSPECTION, TESTING AND MAINTENANCE OF FIRE PROTECTION SYSTEMS (8 SEP. 2010).
- UFC 4-021-01 DESIGN AND O&M: MASS NOTIFICATION SYSTEMS (9 APR., 2008, WITH CHANGE 1).

SYMBOL LEGEND:

— —F— —	NEW UNDERGROUND FIRE PIPING.
—— —— ——	EXISTING UNDERGROUND WATER/FIRE PIPING.
-X- -X- -X-	THE EXISTING UNDERGROUND FIRE PIPING TO BE DISCONNECTED FROM PIV 16 & 17 AND FROM THE EXISTING 8"Ø MAIN WATER LINE. BOTH ENDS CAPPED AND PIPE ABANDONED IN PLACE.
-·-·-·-	WORK AREA BOUNDARY

KEY NOTES:

1	THE EXISTING 8-INCH SHUT OFF VALVE TO BE THE POINT OF DEMARCATION FOR OCWUT CONTROL.
2	TEMPORARILY REMOVE THE SUPPORT FOR THE BACKFLOW PREVENTER IN ORDER TO SAW CUT THE FLOOR AND CAP THE EXISTING 6"Ø WATER SUPPLY LINE MIDWAY BETWEEN THE CHILLER AND THE MECHANICAL ROOM WALL. THE SMALL RUN UNDER THE CHILLER SHALL BE ABANDONED IN PLACE.
3	FURNISH AND INSTALL NEW 6"Ø UNDERGROUND FIRE WATER PIPE ROUTE IN ACCORDANCE WITH CURRENT NFPA 24 TO FEED THE EXISTING POST INDICATOR VALVES PIV 16 & PIV 17. CONNECT TO THE EXISTING 8"Ø UNDERGROUND WATER MAIN LINE ON THE EXTERIOR OF THE BUILDING AS SHOWN. ALL PIPING USED IN NEW FIRE SERVICE LINES SHALL BE IN ACCORDANCE WITH CURRENT NFPA 24 PARAGRAPH 10.1.1.1, 10.1.1.2, OR 10.1.1.3.
4	NOT USED.
5	DEMOLISH AND REPLACE IN KIND POST INDICATOR VALVES PIV 13, AND PIV 14.
6	DEMOLISH IN KIND POST INDICATOR VALVES PIV 16, AND PIV 17.
7	SEE AME-101 FOR ADDITIONAL DETAILS.

AS RECORDED

Date Mar 18th, 2024

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION

WWYK160073
REPAIR FIRE RISER,
SE CORNER, BUILDING 1 (FSD1)

TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION
1	6/13/2022	CHANGES TO ANSWER RFI 1
2	12/06/2022	CIVIL AND ELECTRICAL REVISION

MANAGEMENT INFORMATION

ISSUE DATE: 4/14/2021
DESIGN GROUP: THDR SRM
DESIGNED BY: S. TAWFIK
DRAWN BY: S. TAWFIK
CHECKED BY: A. ARMSTRONG
DESIGN FILE LOCATION:
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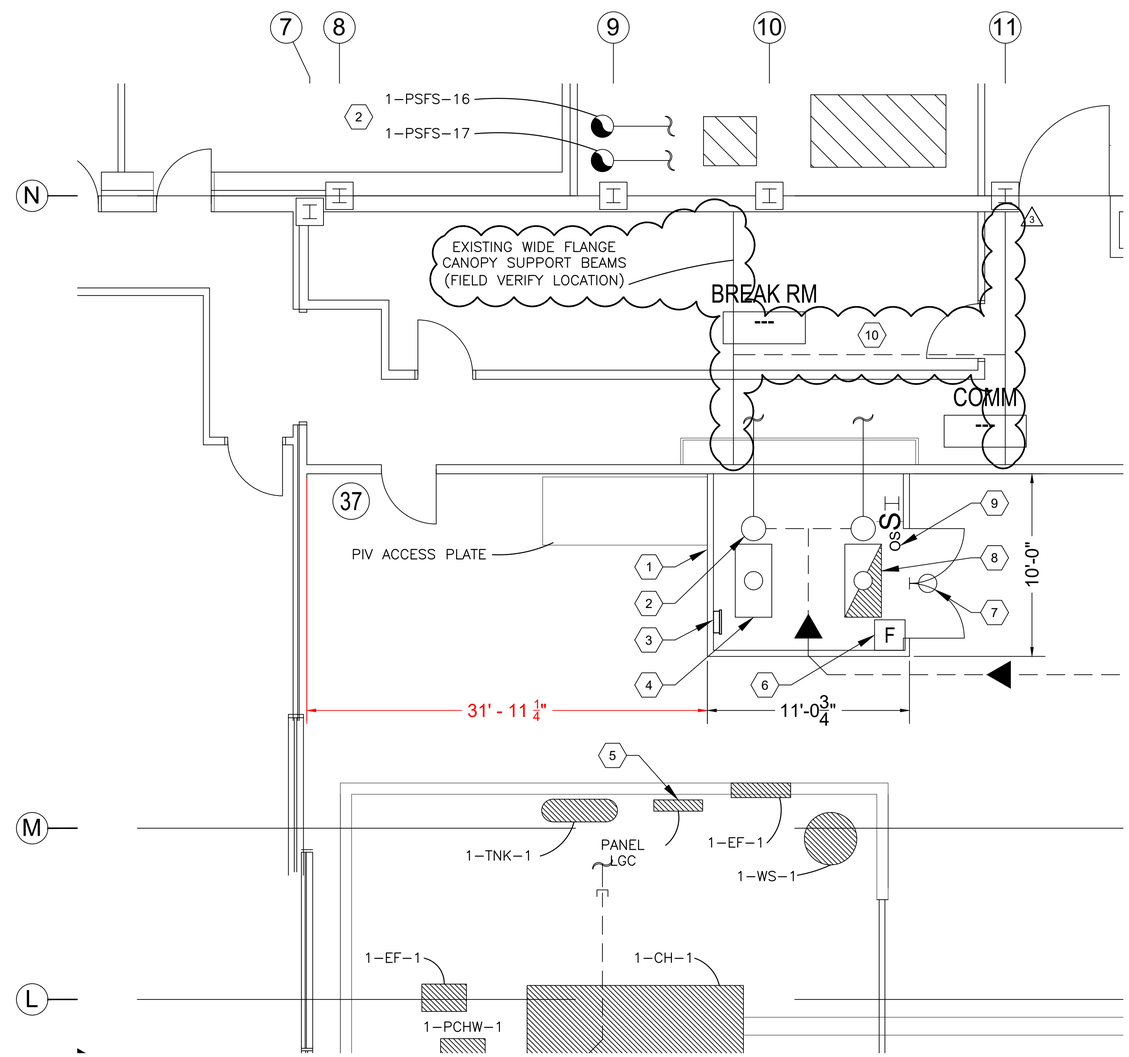
SHEET TITLE

PARTIAL FIRE PROTECTION PLAN, B1

SHEET NUMBER

FP-101

SHEET 03 OF 05



N 1 AME-101 PARTIAL FIRE PROTECTON PLAN FOR B1
SCALE: 1/16" = 1' - 0"

GENERAL NOTES:

1.	DIMENSIONS ARE APPROXIMATE. VERIFY ALL DIMENSIONS IN THE FIELD AND COORDINATE WITH THE PRE-FABRICATE WALL PANEL MANUFACTURER PRIOR TO ORDERING.

SYMBOL LEGEND:

— — —	EXISTING / NEW UNDERGROUND WATER / FIRE PIPING.

KEY NOTES:

1	NEW FIRE RISER ROOM FROM PRE-FABRICATED WALL PANELS.
2	DEMOLISH ALL COMPONENTS OF THE FIRE RISERS (PSFS-16 AND PSFS-17) IN THE MECHANICAL ROOM. REPLACE IN-KIND ALL RISER COMPONENTS IN THE NEW FIRE FIRE RISER ROOM. SEE DRAWING FP-501 FOR THE LIMITS OF MOVED ITEMS.
3	INSTALL TRANE MODEL UHAA15xxx 1.5kW ELECTRIC UNIT HEATER OR SIMILAR IN THE NEW FIRE RISER ROOM.
4	2' X 4' LED CABLE SUSPENDED COLUMBIA LIGHTING LLHV4-40H-WST-EU-LHVQM10 VOLTAGE - 120
5	ELECTRICAL PANEL LCG
6	FIRE ALARM PULL STATION
7	EXTERNAL LED WALL LUMINAIRE MANUFACUTURER - LITHONIA LIGHTING, CATALOG NUMBER - TWH-LED 30C 1000 40K T3M MVOLT PE DDBXD, TYPE - LED, LUMENS - 4000, VOLTAGE - 120.
8	2' X 4' LED CABLE SUSPENDED COLUMBIA LIGHTING LLHV4-40H-WST-EU-LHVQM10-LL14 VOLTAGE - 120
9	OCCUPANCY SENSOR MANUFACTURER - LUTRON, CATALOG NUMBER - LOS-CDT-2000-WH
3 10	INSTALL NEW FIRE PROTECTION BEAM SUPPORTS.

AS RECORDED
Date Mar 18th, 2024

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION
WWYK160073
REPAIR FIRE RISER,
SE CORNER, BUILDING 1 (FSD1)
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION
3	12/06/2022	CIVIL AND ELECTRICAL REVISION

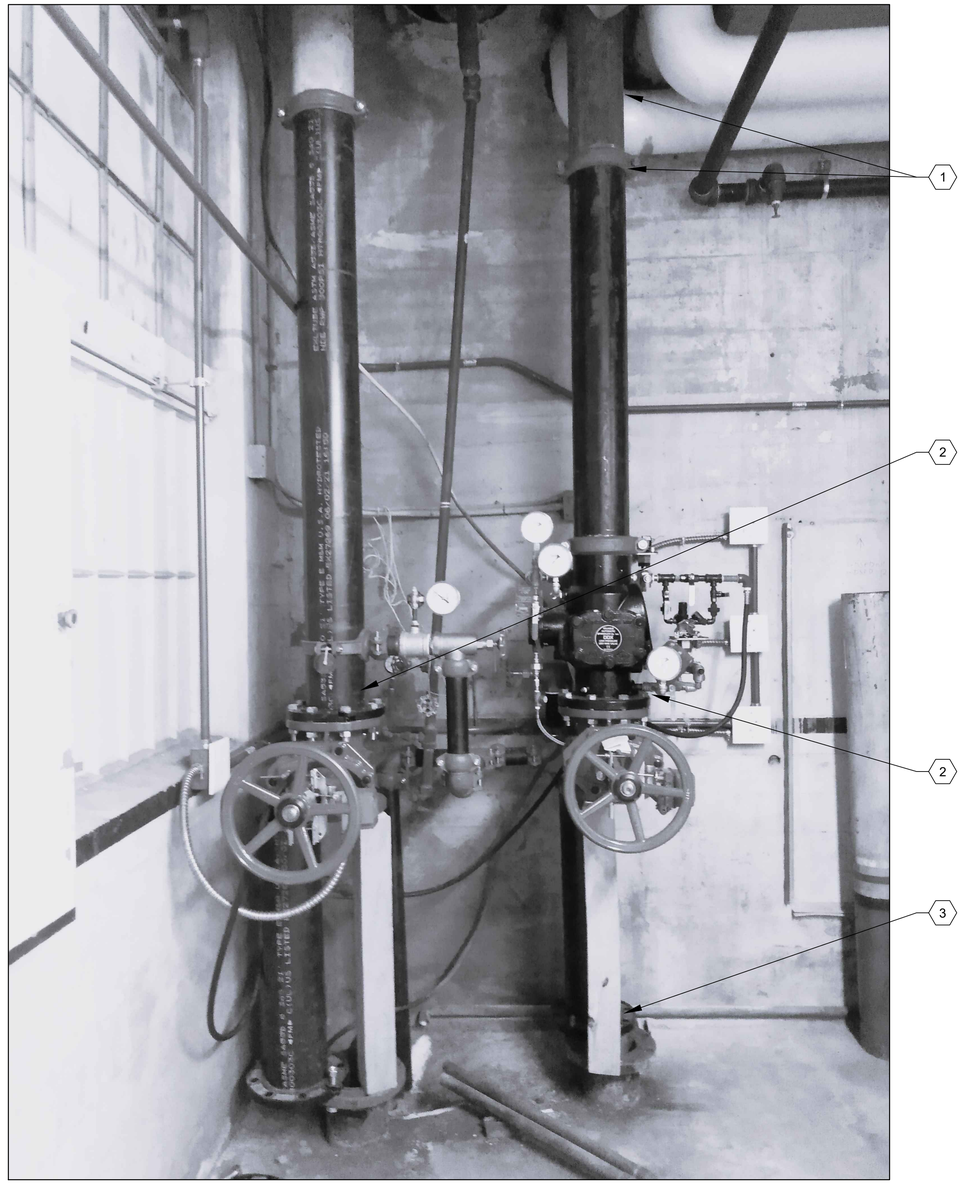
MANAGEMENT INFORMATION
ISSUE DATE: 12/6/2022
DESIGN GROUP: THDR SRM
DESIGNED BY: THDR GROUP
DRAWN BY: A. ARMSTRONG
CHECKED BY: A. ARMSTRONG
DESIGN FILE LOCATION:
\Engr\Design\2010s\2016\201600730_Support0_3_Drawings

SHEET TITLE
ARCHITECTURAL, MECHANICAL, ELECTRICAL FOR NEW FIRE RISER ROOM

SHEET NUMBER
AME-101

SHEET 04 OF 05

KEY NOTES:	
1	TIE NEW PIPING FROM THE NEW FIRE RISER ROOM TO THE EXISTING PIPING IN THE MECHANICAL ROOM ABOVE THE EXISTING COUPLING.
2	REMOVE THE FIRE RISERS, TAMPER SWITCHES, AND OTHER ASSOCIATED ITEMS FROM THE UPPER COUPLING (NOTE 1) TO THE FLOOR FLANGE (NOTE 3). REINSTALL COMPLETE ASSEMBLY TO THE NEW FIRE RISER ROOM ON THE DOCK. SEE DRAWING AME-101.
3	CAP AND SEAL THE FLANGES AT THE FLOOR PENETRATION. ABANDON-IN-PLACE THE EXISTING UNDERFLOOR FIRE LINES.



N

1
FP-501

FIRE RISER DETAIL
SCALE: N/A

AS RECORDED
Date Mar 18th, 2024

AIR FORCE MATERIEL COMMAND
72 ABW CIVIL ENGINEER DIRECTORATE
TINKER AFB, OK

35% DESIGN

PROJECT INFORMATION:
WWYK160073
REPAIR FIRE RISER,
SE CORNER, BUILDING 1 (FSD1)
TINKER AIR FORCE BASE, OKLAHOMA

REVISIONS

MARK	DATE	DESCRIPTION

MANAGEMENT INFORMATION:

ISSUE DATE:	12/20/2022
DESIGN GROUP:	THDR SRM
DESIGNED BY:	THDR GROUP
DRAWN BY:	A. ARMSTRONG
CHECKED BY:	A. ARMSTRONG

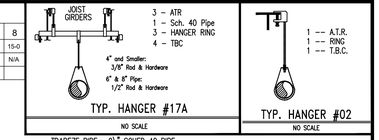
DESIGN FILE LOCATION:
\Engr\Design\2010s\2016\201600730_Support\0_3_Drawings

SHEET TITLE
FIRE RISER DETAIL

SHEET NUMBER
FP-501

SHEET 05 OF 05

Maximum Distance Between Hangers (ft-in.)	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8
Steel pipe except threaded lightwall	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
Threaded lightwall steel pipe	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A



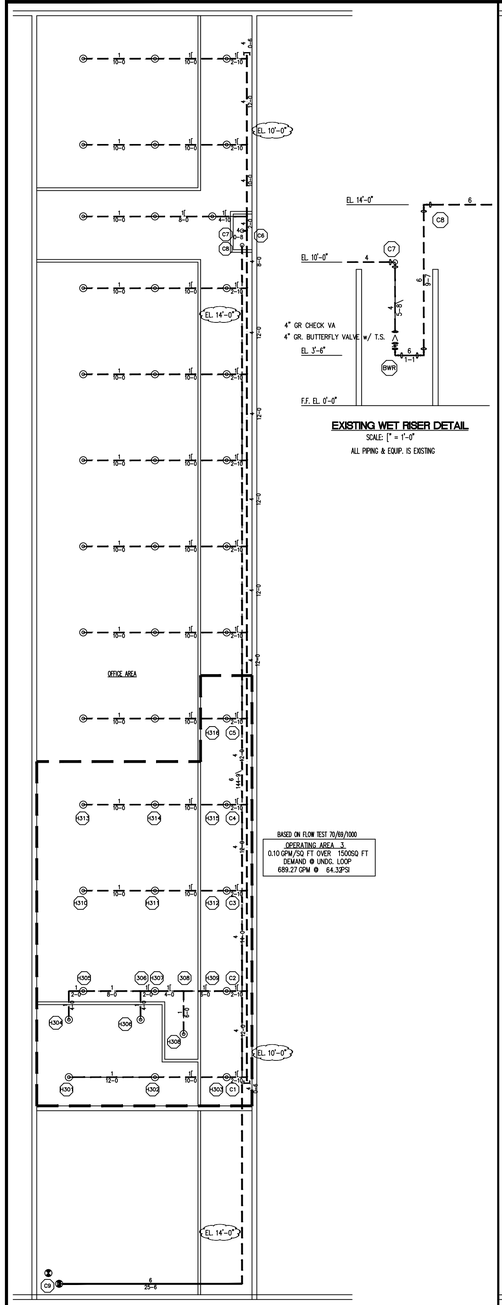
TYP. HANGER #17A

NO SCALE

TYP. HANGER #02

NO SCALE

TRAPEZE PIPE : 2\" SCHED 40 PIPE



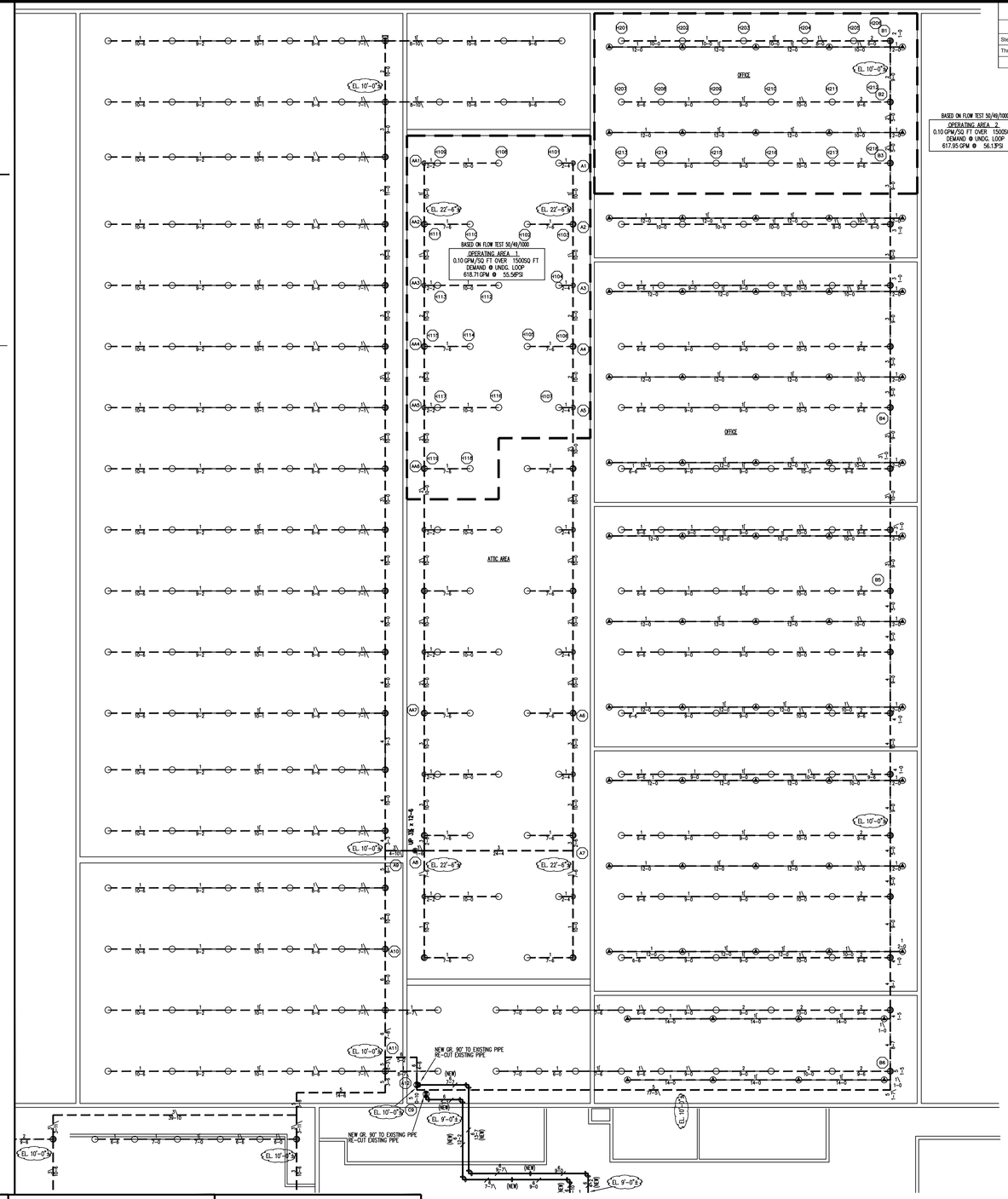
WET SYSTEM:

ALL PIPING AND EQUIPMENT IS EXISTING U.N.O.

EXISTING WET RISER DETAIL

SCALE: 1" = 1'-0"

ALL PIPING & EQUIP. IS EXISTING

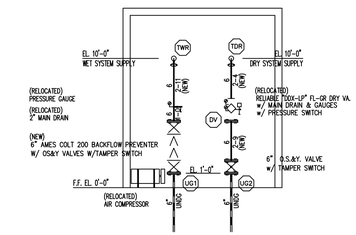


DRY SYSTEM:

ALL PIPING AND EQUIPMENT IS EXISTING U.N.O.
NEW HANGERS TO BE SPACED PER NFPA-13

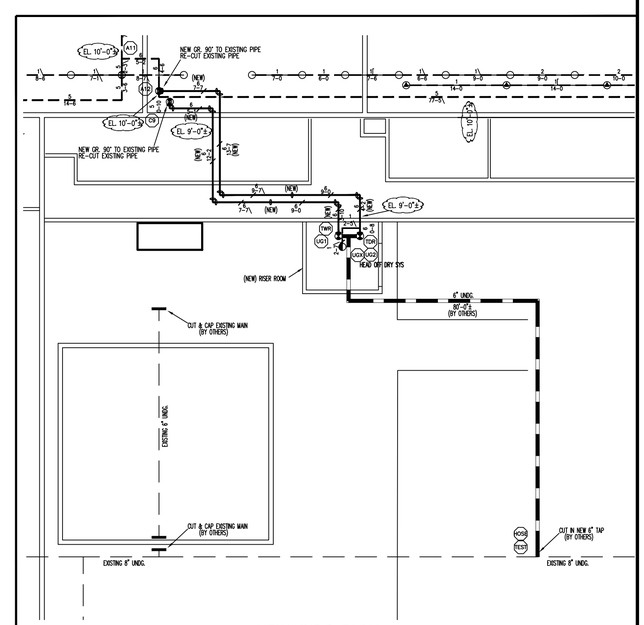
EXISTING PIPE

NEW PIPE



NEW RISER ROOM RISER DETAIL

SCALE: 1" = 1'-0"



NEW UNDG. PLAN

DESIGN CRITERIA:

CURRENT SYSTEM ANALYSIS PLAN
PER NFPA-13, 2016 EDITION, LIGHT HAZARD:
0.10 GPM/SQ. FT. FOR 1950 SQ. FT. + 100 GPM FOR HOSES.

MECH. / ELEC. / JANITOR ROOMS:
SPACED PER NFPA-13, 2016 EDITION, ORDINARY HAZARD

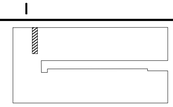
PIPE TYPE:

NEW PIPING:
ALL PIPING TO BE BLACK SCHED 40

EXISTING PIPING:
ALL PIPING IS BLACK SCHED 40

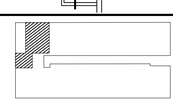
CONSTRUCTION:

EXISTING STEEL BEAM, JOIST CONSTRUCTION



WET SYSTEM KEY PLAN:

NO SCALE



DRY SYSTEM KEY PLAN:

NO SCALE

AS RECORDED

Date Mar 18th, 2024

OKLAHOMA FIRE PROTECTION
405-613-1414
INSTALLATION INSPECTIONS SERVICE MAINTENANCE REPAIRS

PO BOX 8129
MOORE, OK. 73153
PH: (405) 613-1414
FAX: (405) 635-9721
LICENSE. #440649

NICET CERTIFIED
Brian Skalla
NICET IV 102668

General Notes

- Oklahoma Fire Protection shall install a complete fire sprinkler system per UFC 3-600-01, 2016 / N.F.P.A 13 2016 ED. / A.H.J.
- All existing systems are hydraulically calculated.
- All fittings to be 125 lbs. class.
- All materials shall be listed and approved for fire protection use.
- All underground work is provided and installed by others.

6. The F.D.C. is to be within 100'-0" of a fire hydrant.
8. All hangers to be spaced per NFPA-13.
9. All heads with 30° of diffusers to be Intermediate temperature.
10. All elevations are noted on the section and plan view this sheet.
11. All ceiling heights, pendent head locations and room names are noted on the reflected ceiling plan this sheet.

Symbols

Symbol	Description
○	Hydraulic Reference Points
[18 mg] / ⊥	Elev. Below Top of Steel
[8+3] / EL	Elev. Above Finished Floor
+ (TOS 20-0)	Elev. of Top of Steel
⟨⟩	Ceiling Height
—/—	Denotes Hanger Location
o	Rise up or down

Number of Sprinklers

Total This Sheet: 1					Total This Job: 1
Sym.	Quant.	SIN #	Temp.	KF	Description
◎	–	–	–	5.6	EXISTING RECESSED CHROME PENDENT (WET SYSTEM)
○	–	–	–	5.6	EXISTING BRASS UPRIGHT
Ⓐ	–	–	–	5.6	EXISTING RECESSED CHROME PENDENT (DRY SYSTEM)
◐	1	V3402	200°	8.0	(NEW) TL-QR" QR, BRASS UPRIGHT
◀	11	RA1435	155°	5.6	"TYFB 56" QR, BRASS HOR. SIDEWALL

INSPECTOR AT ON PLAN

GRAPHIC SCALE: 0 8 16

Contract No.	21-596
Drawn By	B&K
Scale	1/8" = 1'-0"
Date	9-20-2023
Approval By	AHJ

Revisions:	Date:
ADDED HANGER LOCATIONS / DETAILS	1-31-2024

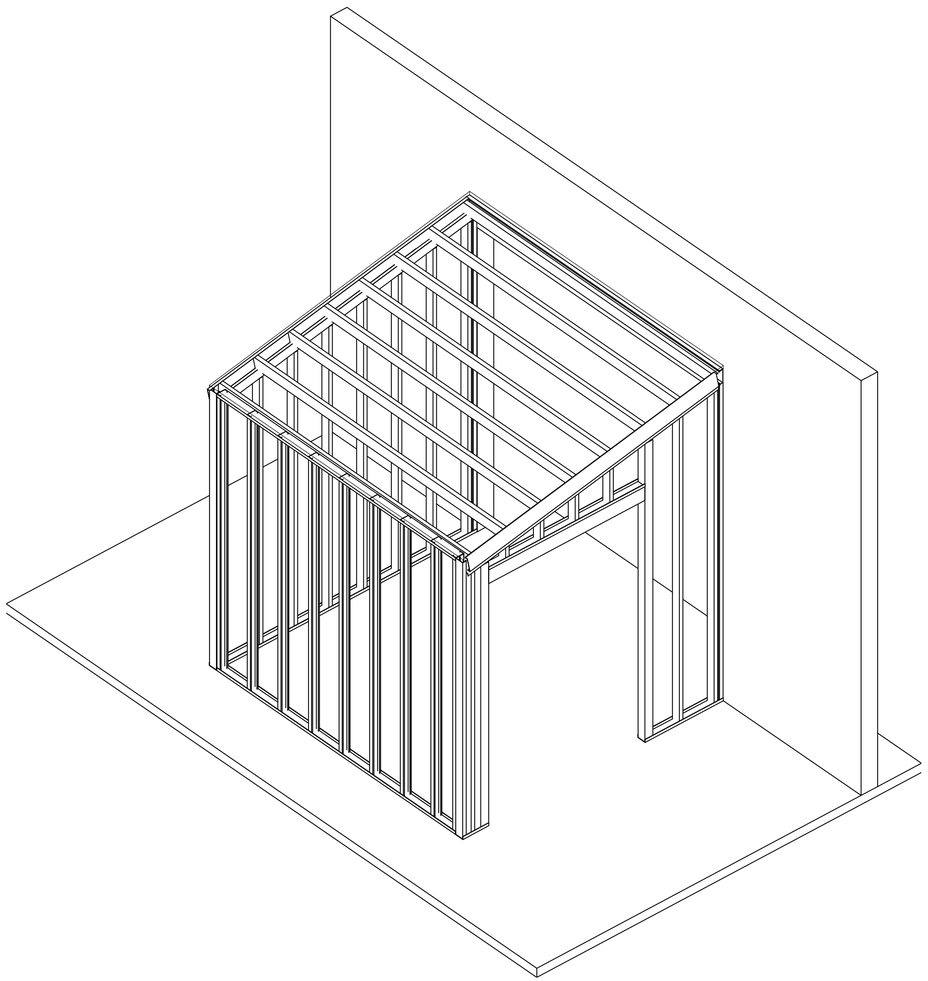
Job:
TAFB – BLDG. 1 (WWYK160073)
REPAIR FIRE RISER (SE CORNER)
RISERS #16 & #17
TINKER AIR FORCE BASE, OK

Contractor:
NATIVE STAR GROUP
2350 S. MIDWEST BLVD.
MIDWEST CUTY, OK 73110

SHEET 1 OF 1

Fire Riser Building

Tinker Airforce Base,
Oklahoma City, OK 73145



CFMF Design Loads:

Codes:
2016 International Building Code
ASCE7-16 Minimum Design Loads for Buildings
2016 AISI Cold Form Framing Standards

Wall Stud Deflection Criteria:
All Walls: L/360
(0.42 x wind load is used for deflection calculations
per IBC Table 1604.3 footnote f.)

Design Loads
Roof Dead Load: 15psf
Balanced Roof Snow Load: 7psf + Drift

Design Wind Load
Ultimate Wind Speed: 109 mph
Exposure Type: B
Risk Category: II

Design Component and Cladding Wind Pressures (Ult.):

Eff. Area=50SF	Walls	Parapets
Zone 4:	18psf	36psf
Zone 5:	20psf	40psf

Notes: 1/3 span used as minimum effective area per ASCE7
Corner zone = area within 4ft of a corner

AS RECORDED
Date Mar 18th, 2024

Drawing List

Sheet Number	Sheet Name
CF0.1	Title Page
CF1.0	Floor Plan & Elevations
CF2.0	Typical Details
CF2.2	Typical Details
CF3.0	Sections & Opening Details

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HALL Construction Inc.

Fire Riser Building
Tinker Airforce Base,
Oklahoma City, OK 73145

DATE	DESCRIPTION
12-07-2023	FOR APPROVAL

SEAL:

FOR APPROVAL NOT FOR CONSTRUCTION

TITLE: Title Page

DATE PLOTTED: 3/19/2024 8:07:20 AM
DRAFTER: PM CHECKER: BG ENGINEER: PM/HK

FILE NUMBER : 23866

DRAWING NUMBER : CF0.1

GENERAL SHEET NOTES:

1. HILTI X-U CONCRETE MIN. EMBEDMENT: 1.00" MIN., U.N.O.
2. HILTI X-U STEEL MIN. EMBEDMENT:
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   STEEL THICKNESS ≥ 3/4": 3/8"
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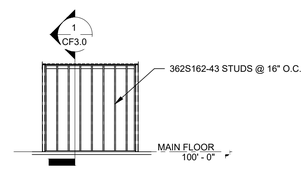
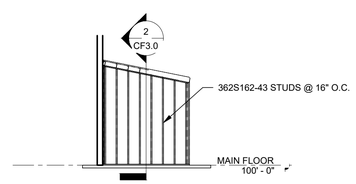
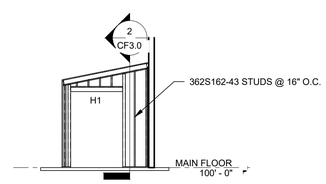


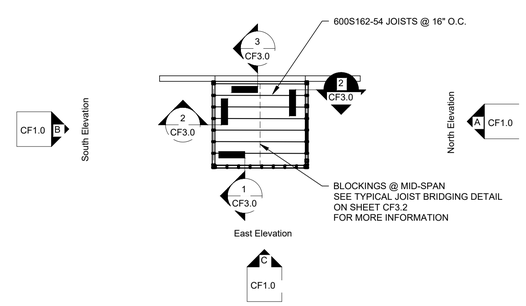
C CF1.0 CF1.0 East Elevation
SCALE: 1/8" = 1'-0"



B CF1.0 CF1.0 South Elevation
SCALE: 1/8" = 1'-0"



A CF1.0 CF1.0 North Elevation
SCALE: 1/8" = 1'-0"



N Floor Plan
SCALE: 1/8" = 1'-0"

AS RECORDED
Date Mar 18th, 2024

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Fire Riser Building

Tinker Airforce Base,
Oklahoma City, OK 73145

DATE	DESCRIPTION
12-07-2023	FOR APPROVAL

SEAL:

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TITLE: Floor Plan & Elevations

DATE PLOTTED: 3/19/2024 8:07:21 AM
DRAFTER: PM CHECKER: BG ENGINEER: PM/HK

FILE NUMBER : 23866

DRAWING NUMBER : CF1.0

GENERAL SHEET NOTES:

1. HILTI X-U CONCRETE MIN. EMBEDMENT: 1.00" MIN., U.N.O.
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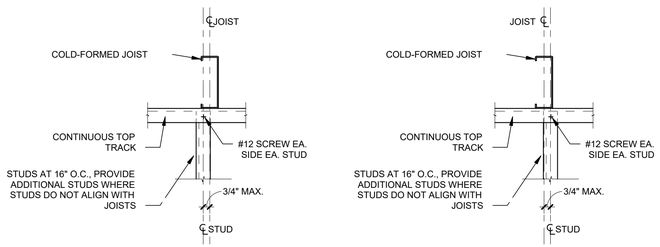
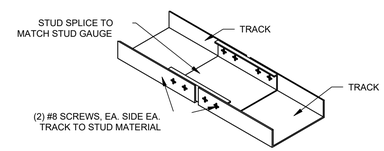


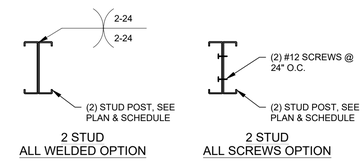
Joist Bearing Tolerances

SCALE: N.T.S.



Typical Track Splice Detail

SCALE: N.T.S.



Double Stud Connection Detail

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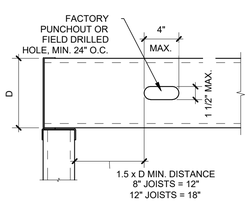


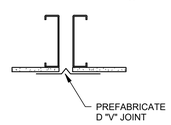
Joist Punchout Requirements

SCALE: N.T.S.

GYPSUM BOARD CONTROL JOINT NOTES (PER ASTM C840)

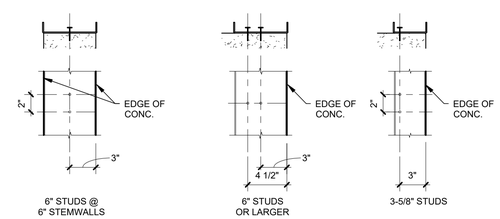
PROVIDE CONTROL JOINTS AS REQ'D. BELOW:
WALLS: MAX. 30'-0" O.C.
CEILING: MAX. 50'-0" O.C. WITH PERIMETER RELIEF
MAX. 50'-0" O.C. WITHOUT PERIMETER RELIEF

PROVIDE DOUBLE FRAMING MEMBERS @ JOINTS, TYP.



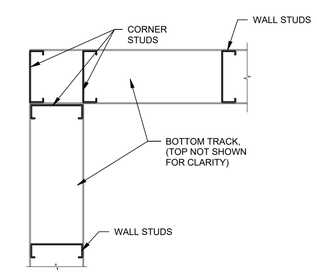
Gypsum Board Control Joint

SCALE: N.T.S.



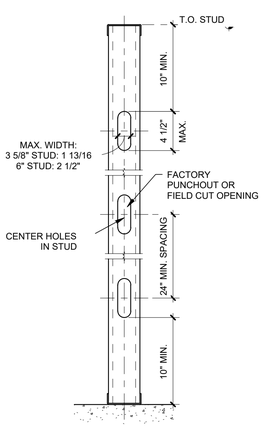
Minimum Edge Distances

SCALE: N.T.S.



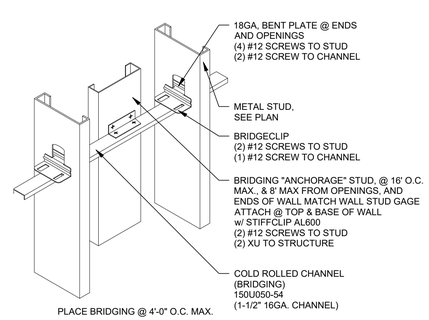
Typical Corner Framing Detail

SCALE: N.T.S.



Bearing Stud Punchout Requirements

SCALE: N.T.S.



Bearing Wall Channel Bridging Detail

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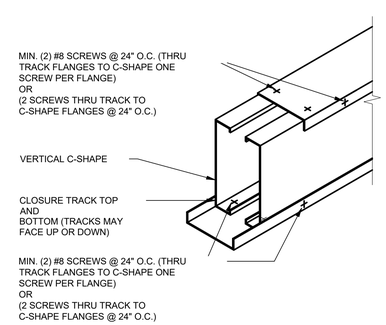
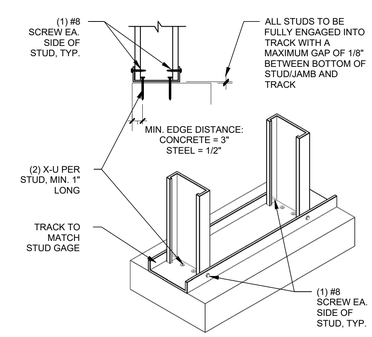


Typical Header Assembly

SCALE: N.T.S.



NOTE:
SEAT ALL STUDS TIGHT TO TRACK WITH A MAXIMUM GAP OF 1/8" BETWEEN EITHER THE TOP or BOTTOM OF STUD/JAMB AND TRACK

Typical Stud to Track Connection Detail

SCALE: N.T.S.

Fire Riser Building

Tinker Airforce Base,
Oklahoma City, OK 73145

DATE	DESCRIPTION
12-07-2023	FOR APPROVAL

SEAL:

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TITLE: Typical Details

DATE PLOTTED: 3/19/2024 8:07:22 AM
DRAFTER: PM CHECKER: BG ENGINEER: PM/HK

FILE NUMBER : 23866

DRAWING NUMBER : CF2.0

GENERAL SHEET NOTES:

1. HILTI X-U CONCRETE MIN. EMBEDMENT: 1.00" MIN., U.N.O.
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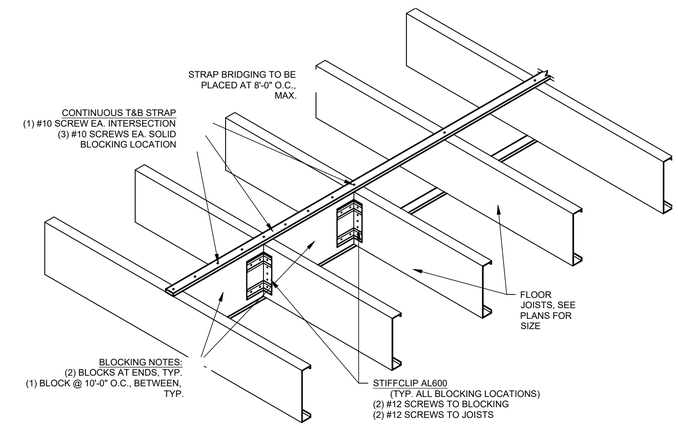
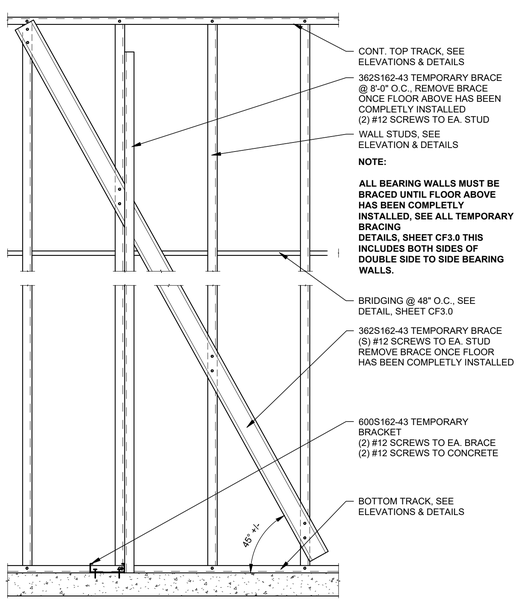


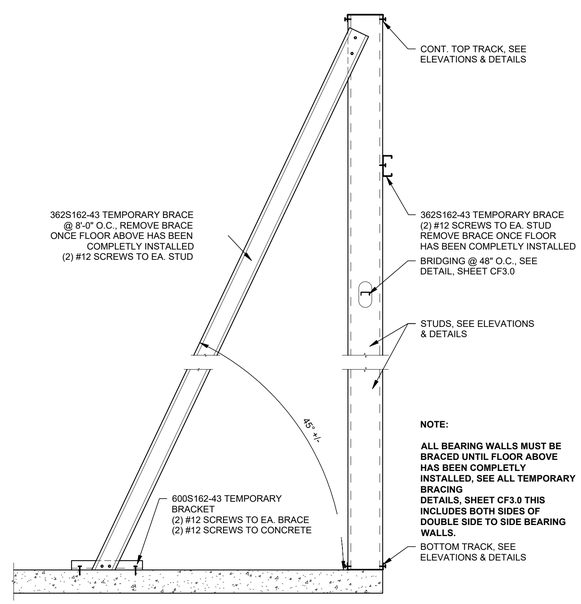
Typical Joist Bridging Detail

SCALE: N.T.S.



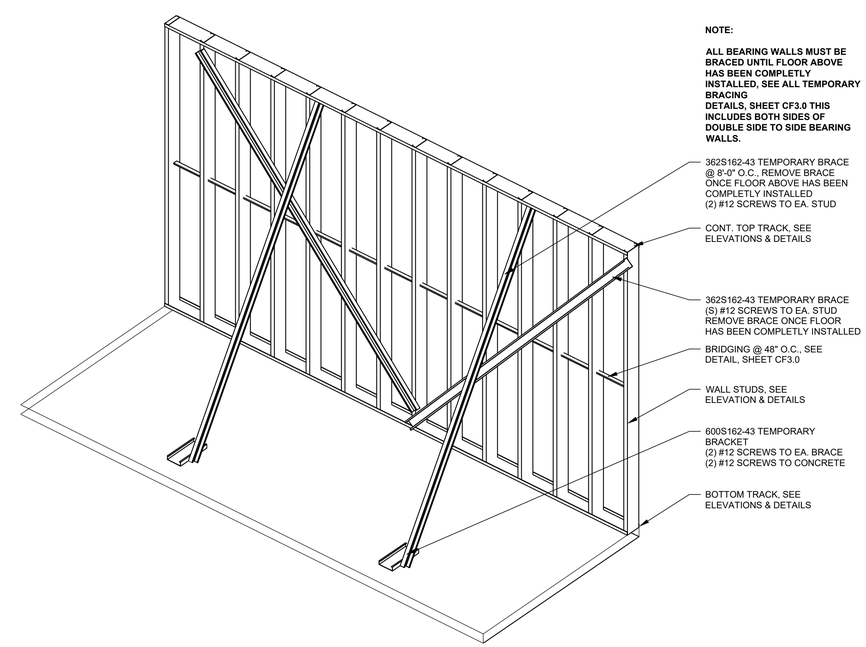
Temporary Bracing Side Detail

SCALE: N.T.S.



Temporary Bracing Detail

SCALE: N.T.S.



Temporary Bracing Isometric

SCALE: N.T.S.

AS RECORDED
Date Mar 18th, 2024

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Fire Riser Building

Tinker Airforce Base,
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DATE	DESCRIPTION
12-07-2023	FOR APPROVAL

SEAL:

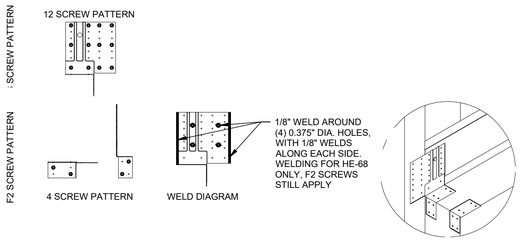
FOR APPROVAL NOT FOR CONSTRUCTION

TITLE: Typical Details

DATE PLOTTED: 3/19/2024 8:07:24 AM
DRAFTER: Author CKER: Checker EER: Designer

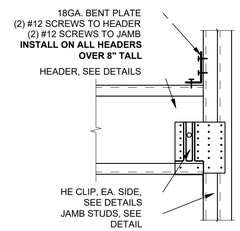
FILE NUMBER : 23866

DRAWING NUMBER : CF2.2



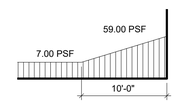
HE Screw Patterns

SCALE: N.T.S.



Header Stability Clip

SCALE: N.T.S.



Snow Drift Load

SCALE: N.T.S.

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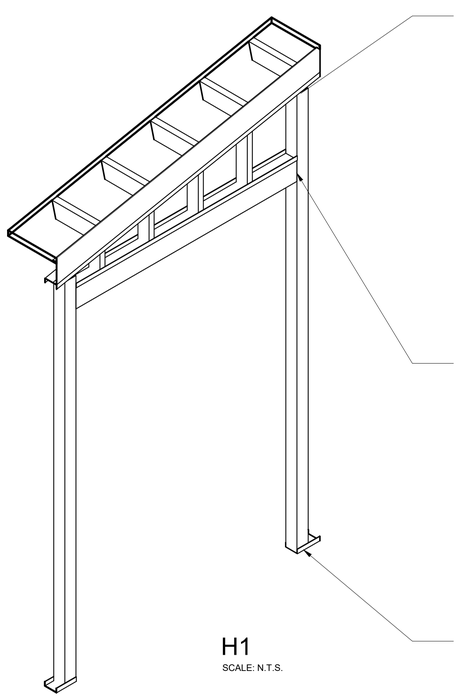
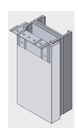
LEAVE TEMPORARY BRACING IN PLACE FOR ALL LOAD BEARING STUD WALLS UNTIL ALL SHEATHING IS BUILT SEE TEMPORARY BRACING DETAILS ON SHEET CF2.2

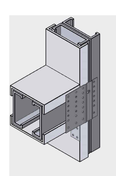


H1

SCALE: N.T.S.

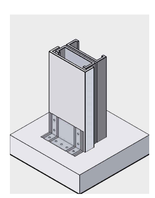


STIFFCLIP AL362
(2) #12 SCREWS TO JAMB
(2) #12 SCREWS TO CONT. TOP TRACK
BEND ONCE TO MATCH SLOPE



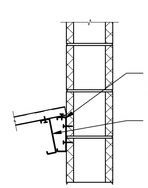
BOX HEADER:
(2) 600S162-54 + (2) 362T125-43

STIFFCLIP HE-43, 50 KSI
(4) #10 F2 SCREWS
(12) #10 F3 SCREWS



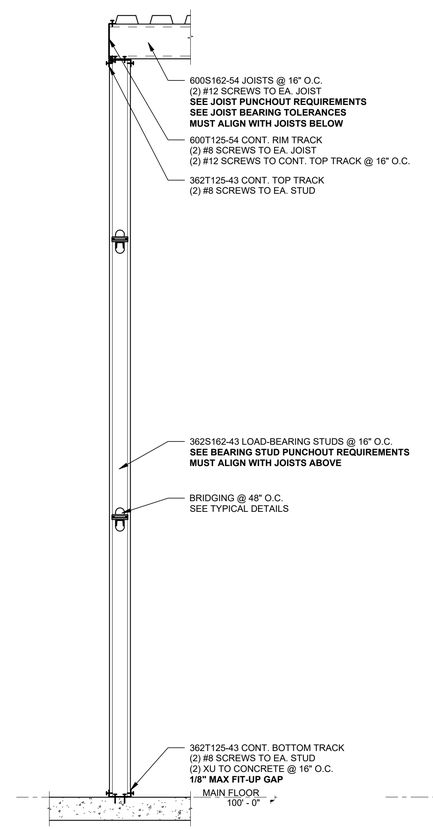
JAMB:
(2) 362S162-43
(1) 362T125-43

STIFFCLIP AL362
(2) #12 SCREWS TO JAMB
(2) XU TO CONCRETE



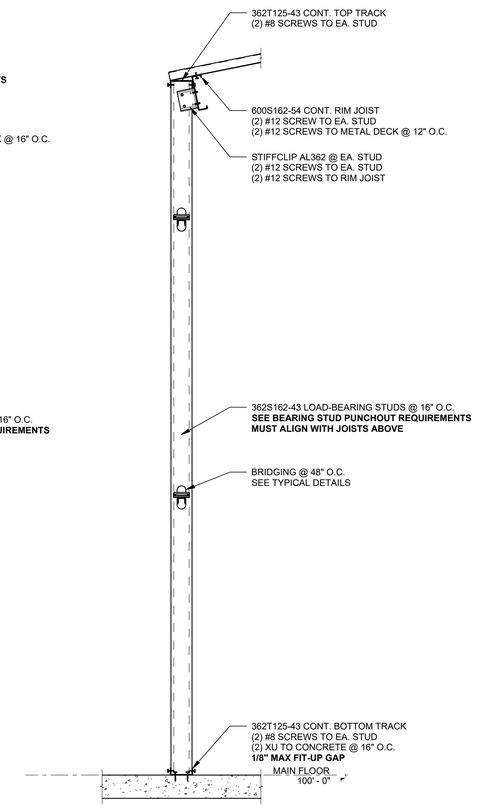
3 CF3.0 CF1.0 Section @ Building Connection

SCALE: 1" = 1'-0"



2 CF3.0 CF1.0 Section @ North/South Wall

SCALE: 1" = 1'-0"



1 CF3.0 CF1.0 Section @ East Wall

SCALE: 1" = 1'-0"

AS RECORDED

Date Mar 18th, 2024

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STRUCTURAL ENGINEERING & DETAILING
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HALL Construction Inc.

Fire Riser Building

Tinker Airforce Base,
Oklahoma City, OK 73145

DATE	DESCRIPTION
12-07-2023	FOR APPROVAL

SEAL:

FOR APPROVAL NOT FOR CONSTRUCTION

TITLE: Sections & Opening Details

DATE PLOTTED: 3/19/2024 8:07:25 AM

DRAFTER: PM CHECKER: BG ENGINEER: PM/HK

FILE NUMBER : 23866

DRAWING NUMBER : CF3.0