FIRE PROTECTION

ABBREVIATIONS

A	
AB	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECH ENG
AUTO	AUTOMATIC
B	
BE	BOTTOM ELEVATION
BFG	BELOW FINISHED GRADE
BJ	BETWEEN JOISTS
BLDG	BUILDING
BLW	BELOW
BOT	BOTTOM
C	
CLG	CEILING
CONC	CONCRETE
CONN	CONNECT/CONNECTION
CONST	CONSTRUCT/CONSTRUCTION
COORD	COORDINATE
D	
DEG	DEGREE
DEPT	DEPARTMENT
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DR	DRAIN
DWG	DRAWING
E	
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXP	EXPOSED
F	
F	FAHRENHEIT
FD	FLOOR DRAIN
FHC	FIRE HOSE CABINET
FLEX	FLEXIBLE
FLR	FLOOR
FT	FOOT/FEET
FUT	FUTURE
G	
G	GROUND
GA	GAUGE/GAGE
GAL	GALLON
GALV	GALVANIC or GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRADE
H	
H	HIGH
HC	HEATING (HVAC) CONTRACTOR
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IN OR "	INCH
INT	INTERIOR
INV	INVERT(ER)
L	
LB or LBS	POUND(S)
LF	LINEAR FEET
M	
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
N	
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
O	
OC	ON CENTER
OPNG	OPENING
OS&Y	OPEN SCREW AND YOKE GATE VALVE
P	
PC	PLUMBING CONTRACTOR
PH	PHASE
PLBG	PLUMBING
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE ABSOLUTE
PSIG	POUNDS PER SQUARE GAUGE
R	
RD	ROUND
RF	ROOF
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S	
SHT	SHEET
SPEC	SPECIFICATIONS
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
SUSP	SUSPEND/SUSPENDED
T	
TE	TOP ELEVATION
TEMP	TEMPERATURE
THRU	THROUGH
TJ	THROUGH JOISTS
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
W	
W/	WITH
W/O	WITHOUT
WT	WEIGHT

GENERAL NOTE: NOT ALL ABBREVIATIONS OR TERMS INDICATED ARE USED ON THESE CONTRACT DOCUMENTS.

FLOW TEST DATA

STATIC PRESSURE: 64 PSI

RESIDUAL PRESSURE: 47 PSI

FLOWING: 1000 GALLONS

LOCATION OF FLOW TEST: 12/1/20 BY S.A. COMUNALE ON THE EXISTING FIRE LOOP AROUND BUILDING AT FIRE HYDRANT.

NOTE: SPRINKLER CONTRACTOR TO PERFORM NEW FLOW TEST.

SYMBOLS AND DESIGNATIONS

FLOW DETECTOR SWITCH

INDICATOR VALVE

OS & Y SUPERVISORY SWITCH

OS & Y W/ TAMPER SWITCH & FLOW INDICATOR

——D—— DRAIN

——FPM—— FIRE PROTECTION MAIN PIPING

——FPW—— FIRE PROTECTION - WET PIPE SYSTEM

GRAPHIC SYMBOLS

POINT OF CONNECTION EXISTING SYSTEM

POINT OF DISCONNECTION FROM EXISTING SYSTEM

EQUIPMENT TAG — AHU-2 — EQUIPMENT ABBREVIATION / EQUIPMENT NUMBER

SHEET KEYNOTE (NEW CONSTRUCTION) — 1

DEMOLITION KEYNOTE — 1

REVISION SEQUENCE NUMBER — 1

ROOM TAG (ROOM NO NOT ALWAYS SHOWN) — ROOM NAME / RM #

SECTION/ ELEVATION REFERENCE — VIEW REF / SHEET REF — # / A-XXX

INTERIOR ELEVATION REFERENCE — VIEW REF / SHEET REF — AXXX

DETAIL / CALLOUT REFERENCE — VIEW REF / SHEET REF — #

SYMBOL LEGEND GENERAL NOTES:

A. LEGENDS ARE GENERAL. NOT ALL SYMBOLS AND/OR DESIGNATIONS MAY APPEAR ON THE DRAWINGS.

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE PROTECTION PIPING, EQUIPMENT, DEVICES, AND SPRINKLER HEADS SHOWN ON FIRE PROTECTION DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY TO REPRESENT THE GENERAL SCOPE OF WORK. FINAL FIRE PROTECTION SYSTEM DESIGN AND LAYOUT IS THE SOLE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR. INSTALLATION DRAWINGS SHOWING THE ENTIRE FIRE PROTECTION SYSTEM(S) SHALL BE GENERATED BY THE FIRE PROTECTION CONTRACTOR. DRAWINGS SHALL BE SEALED BY A PENNSYLVANIA REGISTERED ENGINEER IN RESPONSIBLE CHARGE FOR PERMIT APPROVAL TO SERVE AS ENGINEER OF RECORD. (EOR).

B. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO PERFORM AND MEET ALL CODE REQUIRED TESTS, INCLUDING, BUT NOT LIMITED TO, FLOW TEST, DRAIN TEST, AIR SUPPLY TEST, INSPECTOR'S TEST, PRESSURE TEST AND VERIFICATION OF THE FIRE ALARM SYSTEM. SUBMIT ALL INSPECTION REPORTS AND TEST CERTIFICATES TO THE OWNER, O&M MANUAL, AND AS REQUESTED BY AUTHORITY HAVING JURISDICTION.

C. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO COMPLETE AND SUBMIT COPIES OF CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ALL WORK PERFORMED, UPON COMPLETION OF THE WORK, TO THE APPROPRIATE AUTHORITIES, LOCAL FIRE MARSHALL, BUILDING INSPECTOR AND OWNER. PROVIDE A COPY IN THE O&M MANUAL.

D. FIRE PROTECTION WORK PERFORMED ON THIS PROJECT SHALL BE SIZED PER HYDRAULIC CALCULATIONS.

E. FIRE PROTECTION WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 13, ALL APPLICABLE STATE AND LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION TO DELIVER A PENALTY FREE SYSTEM.

F. CONTRACTOR SHALL PROVIDE SPRINKLER COVERAGE IN ACCORDANCE WITH NFPA 13, ALL APPLICABLE STATE AND LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION. THE COVERAGE SHALL ALSO INCLUDE SPRINKLER COVERAGE IN AREAS WHERE OBSTRUCTIONS WITH DUCTWORK REQUIRE ADDITIONAL SPRINKLER HEADS BENEATH THE OBSTRUCTION.

G. PIPING AND SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED TO ALLOW MAXIMUM HEAD CLEARANCES AND ACCESSIBILITY TO PIPING AND SURROUNDING EQUIPMENT.

H. THE ENTIRE SPRINKLER SYSTEM SHALL BE DESIGNED, FURNISHED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION. INCLUDING BUT NOT LIMITED TO, INTERNATIONAL BUILDING CODE; NFPA 13,21,25; NATIONAL ELECTRIC CODE.

I. THE ENTIRE SPRINKLER SYSTEM SHALL USE COMPONENTS THAT ARE UL LISTED, FACTOR MUTUAL TESTED, AND MEETING THE FIRE MARSHALL REQUIREMENTS.

J. DESIGN AND OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION FOR THE FIRE PROTECTION SYSTEM SPECIFIED. PAY FOR ALL REVIEW FEE AND ASSOCIATED PERMITS, EXPENSES, ETC. PREPARE LICENSED ENGINEER'S(P.E.) SEALED AND SIGNED "WORKING PLANS" AND HYDRAULIC CALCULATION AND SUBMIT TO AUTHORITIES HAVING JURISDICTION FOR REVIEW, COMMENT AND APPROVAL.

K. REFER TO EXISTING CONDITIONS, ARCHITECTURAL BUILDING SECTIONS, WALL SECTIONS AND STRUCTURAL DRAWINGS FOR STRUCTURAL STEEL ELEVATIONS AND SPACE AVAILABLE ABOVE THE FINISHED CEILING. PROVIDE ALL APPROPRIATE SUPPORT AND BRACING TO THE BUILDING STRUCTURE AS REQUIRED FOR INSTALLATION OF PIPING WITHIN THE GIVEN CONDITIONS.

L. CONCEAL PIPING, VALVES, AND FITTINGS ABOVE CEILINGS AND IN CHASES WHERE THEY OCCUR, UNLESS NOTED OTHERWISE. FURNISH AND INSTALL ACCESS PANELS FOR ALL VALVES, GAUGES AND SWITCHES CONCEALED WITHIN WALLS OR ABOVE CEILINGS.

M. PROVIDE PIPE SLEEVES THROUGH ALL FIRE RATED WALLS (INCLUDING DRYWALL CONSTRUCTION) FOR INSTALLATION OF FOAM SEALANT. SLEEVES IN FLOORS AND MASONRY WALLS SHALL BE SCHEDULE 40 GALVANIZED STEEL. SLEEVES IN DRYWALL SHALL BE 16 GAGE GALVANIZED STEEL SHEET METAL TURN.

N. ALL EQUIPMENT USED IN CONJUNCTION WITH THIS SYSTEM SHALL BE LISTED IN ACCORDANCE WITH UL AND FACTORY MUTUAL.

O. FIRE PROTECTION CONTRACTOR SHALL NOT INSTALL SPRINKLER PIPING OR HEADS DIRECTLY BELOW EQUIPMENT WHICH REQUIRED SERVICE. ALL COORDINATION SHALL BE COMPLETED ON THE COORDINATION SHOP DRAWINGS FOR FINAL REVIEW BY ENGINEER.

P. PLASTIC PIPING SHALL NOT BE PERMITTED.

Q. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES.

R. FURNISH AND INSTALL REQUIRED QUANTITY OF RISERS, FLOW SWITCHES AND SUPERVISORY VALVES AS NEEDED. ALL SPRINKLER CONTROL VALVES EXCEPT DRAIN VALVES SHALL BE ELECTRONICALLY SUPERVISED AND EQUIPPED WITH SUPERVISORY SWITCHES.

S. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND WIRING FROM ALL FLOW SWITCHES AND SUPERVISORY SWITCHES TO FIRE ALARM PANEL. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS AT THE SWITCHES AND AT THE PANELS.

T. UNLESS NOTED OTHERWISE, SPRINKLER HEADS IN FINISHED CEILINGS SHALL BE ADJUSTABLE, FULLY CONCEALED WITH WHITE COVER PLATE. FOR OTHER AREAS WHERE CEILINGS ARE NOT INSTALLED, SPRINKLER HEADS SHALL BE CHROME-PLATED AND OF APPROPRIATE ORIENTATION (UPRIGHT, PENDENT, SIDEWALL).

U. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL DUCTWORK, RACEWAYS, CABLE TRAYS CONDUITS, STRUCTURAL MEMBERS, PIPING AND ARCHITECTURAL CEILING HEIGHTS AND DESIGN INTENT.

V. COORDINATE SPRINKLER PIPING, EQUIPMENT, HEADS, APPURTENANCES, ETC. WITH THAT OF OTHER TRADES SO THAT SPRINKLER WORK WILL BE INSTALLED IN THE MOST DIRECT MANNER AND SO THAT INTERFERENCE BETWEEN PIPING, DUCTS, EQUIPMENT, AND ARCHITECTURAL OR STRUCTURAL FEATURES WILL BE AVOIDED.

W. SPRINKLER PIPING, EQUIPMENT, HEADS, APPURTENANCES, ETC. INSTALLED WITHOUT REGARD FOR WORK OF OTHER TRADES WILL BE REJECTED IN ANY SITUATION WHERE AN UNDESIRABLE CONDITION OR AN UNFAIR HARDSHIP FOR OTHER TRADES, OR OWNER, RESULTS.

X. SPRINKLER PIPING SYSTEMS INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES AS IT RELATES TO ACCESS AND SERVICEABILITY OF THAT TRADES EQUIPMENT (I.E.: MECHANICAL UNITS, LIGHTS...) ANY SPRINKLER SYSTEM PIPING DETERMINED BY THE ENGINEER TO BE IN CONFLICT WITH OTHER TRADES WILL BE RELOCATED WITH ALL COST TO BE BORNE BY THE FIRE PROTECTION CONTRACTOR.

Y. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION AND THE COORDINATION FOR SYSTEM INSTALLATION, INCLUDING THE AUTOMATIC SPRINKLER SYSTEM, DETECTION SYSTEM, SIGNALING SYSTEM AND INITIAL START-UPS.

Z. PROVIDE OPERATION AND MAINTENANCE MANUALS CONTAINING ALL NECESSARY INSTRUCTIONS AND EMERGENCY PROCEDURES, AND TECHNICAL DATA OF EACH ESSENTIAL COMPONENT OF THE SYSTEM SUCH AS SPRINKLERS, ELECTRICAL DETECTORS, VALVES, CONTROL SYSTEM, WIRING DIAGRAMS, ETC. FURNISH OPERATIONAL, MAINTENANCE, AND EMERGENCY INSTRUCTIONS TO THE RESPONSIBLE DESIGNATED MAINTENANCE STAFF BEFORE ANY PART OF THE SYSTEM IS TURNED OVER TO THE OWNER, AND SUBMIT WRITTEN CONFIRMATION TO THE PROJECT ENGINEER AS TO WHAT INFORMATION WAS GIVEN TO WHOM AND WHEN.

AA. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO VERIFY FIELD MEASUREMENTS, FIELD CONDITIONS AND MATERIAL SHOP DRAWINGS PRIOR TO ORDERING AND INSTALLING THESE SYSTEMS.

AB. HEADS SHOWN ON DRAWINGS ARE FOR CONCEPT ONLY. PROVIDE QUANTITY AND SPACING AS REQUIRED.

AC. SHOULD THE DRAWINGS DISAGREE WITH ONE ANOTHER, OR WITH THE SPECIFICATIONS, THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR MATERIALS SHALL BE PERFORMED OR PROVIDED. THE CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO EQUIPMENT CONNECTED TO THE INSTALLED SYSTEM INCLUDING COMPONENTS PROVIDED BY OTHERS.

AD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE PROJECT PHASING AND FOR PROVIDING A COMPLETELY OPERABLE SYSTEM AT THE COMPLETION OF EACH PHASE. IF REQUIRED SERVICES TO A SYSTEM ARE NOT AVAILABLE DURING A PHASE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY UTILITIES UNTIL PERMANENT SERVICES ARE AVAILABLE.

AE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL SYSTEM PERFORMANCE TESTING, START-UP, DEMONSTRATION AND TRAINING WITH THE OWNER. FINAL OFFICIAL COPIES OF TESTING CERTIFICATES COMPLETE WITH PROPER WITNESS VALIDATION SHALL BE RETURNED TO THE OWNER AS PART OF THE FINAL OPERATION AND MAINTENANCE MANUALS SUBMITTAL.

AF. AT THE END OF EACH PHASE AND AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETELY OPERATABLE SYSTEM. THE COMPLETED SYSTEM SHALL COMPLY WITH REQUIRED PERFORMANCE TESTING AND FULL FUNCTIONALITY AS INTENDED.

AG. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE PROJECT PHASING AND FOR PROVIDING A COMPLETELY OPERABLE SYSETM AT THE COMPLETION OF EACH PHASE. IF REQUIRED SERVICES TO A SYSTEM ARE NOT AVAILABLE DURING A PHASE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY UTILITIES UNTIL PERMANENT SERVICES ARE AVAILABLE.

PIPING AND FITTING ASSEMBLY SCHEDULE

DESIGNATION	SYSTEM NAME	SYSTEM TEMP RANGE	PRESSURE RANGE	MATERIAL	CONNECTION TYPE	INSULATION MATERIAL	INSULATION THICKNESS Ø<1"	1"<Ø<2"	2"<Ø<4"	4"<Ø<8"	COVERING	COVERING COLOR	IDENTIFICATION PRIMARY COLOR	IDENTIFICATION SECONDARY COLOR	IDENTIFICATION TEXT
——D——	DRAIN	LESS THAN 99 DEGREES GREATER THAN 100 DEGREES	0-20 PSI 0-20 PSI	CPL, GST CPL, GST	SLD, GLU, NPT SLD, NPT	ELM, FBG FBG	½" ½"	1" 1"	1" 1"	1" 1"	EXP: ALM, SST CCL: FSK EXP: ALM, SST CCL: FSK	EXP: BLACK - NOTE 7 EXP: BLACK - NOTE 7	GREEN GREEN	WHITE WHITE	DRAIN DRAIN
——FPM——	FIRE PROTECTION MAIN	LESS THAN 100 DEGREES	0-150 PSI	BELOW GRADE: DI PER NFPA 13, NO PLASTIC	PER NFPA 13	NONE	--	--	--	--	NONE	EXP: BLACK - NOTE 7; APPLY TO PIPE	RED	WHITE	SPRINKLER MAIN
——FPW——	FIRE PROTECTION - WET PIPE SYSTEM	LESS THAN 100 DEGREES	0-150 PSI	PER NFPA 13, NO PLASTIC	PER NFPA 13	NONE	--	--	--	--	NONE	EXP: BLACK - NOTE 7; APPLY TO PIPE	RED	WHITE	SPRINKLER - WET

NOTES:

1. ALL PIPING SYSTEM TYPES MAY NOT BE USED ON THESE CONTRACT DOCUMENTS.
2. FOR HEAT TRACED SYSTEMS, INCLUDE IDENTIFICATIONS FOR BOTH HEAT TRACING AND SYSTEM DESIGNATION.
3. WHERE PLASTIC PIPING IS USED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPATIBILITY OF THE INSTALLED PIPING SYSTEM WITH THE BUILDING'S HVAC SYSTEM. WHERE PLENUM RATED MATERIALS ARE REQUIRED BY ANY FEDERAL, STATE, OR MUNICIPAL AUTHORITY'S CONSTRUCTION CODES, PLASTIC PIPING SHALL BE COVERED IN ITS ENTIRETY BY AN APPROVED FIRE RETARDANT INSULATING MATERIAL. FIRE RETARDANT INSULATING SYSTEMS SHALL BE CERTIFIED TO MEET ASTM E-84 AND UL 723 STANDARDS FOR FLAME SPREAD AND SMOKE GENERATION. FIRE RETARDANT INSULATING SYSTEMS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
4. LABEL PIPING EVERY 25', AT EACH CONNECTION TO A TEE, AND AT FLOOR PENETRATIONS.
5. COVERING COLOR APPLIES TO EXPOSED INTERIOR PIPING ONLY.
6. ALL INSULATION SHALL HAVE A COVERING. DO NOT PAINT INSULATION DIRECTLY.
7. VERIFY FINAL COVERING COLOR WITH OWNER ON A ROOM-BY-ROOM BASIS PRIOR TO ORDERING COVERINGS.

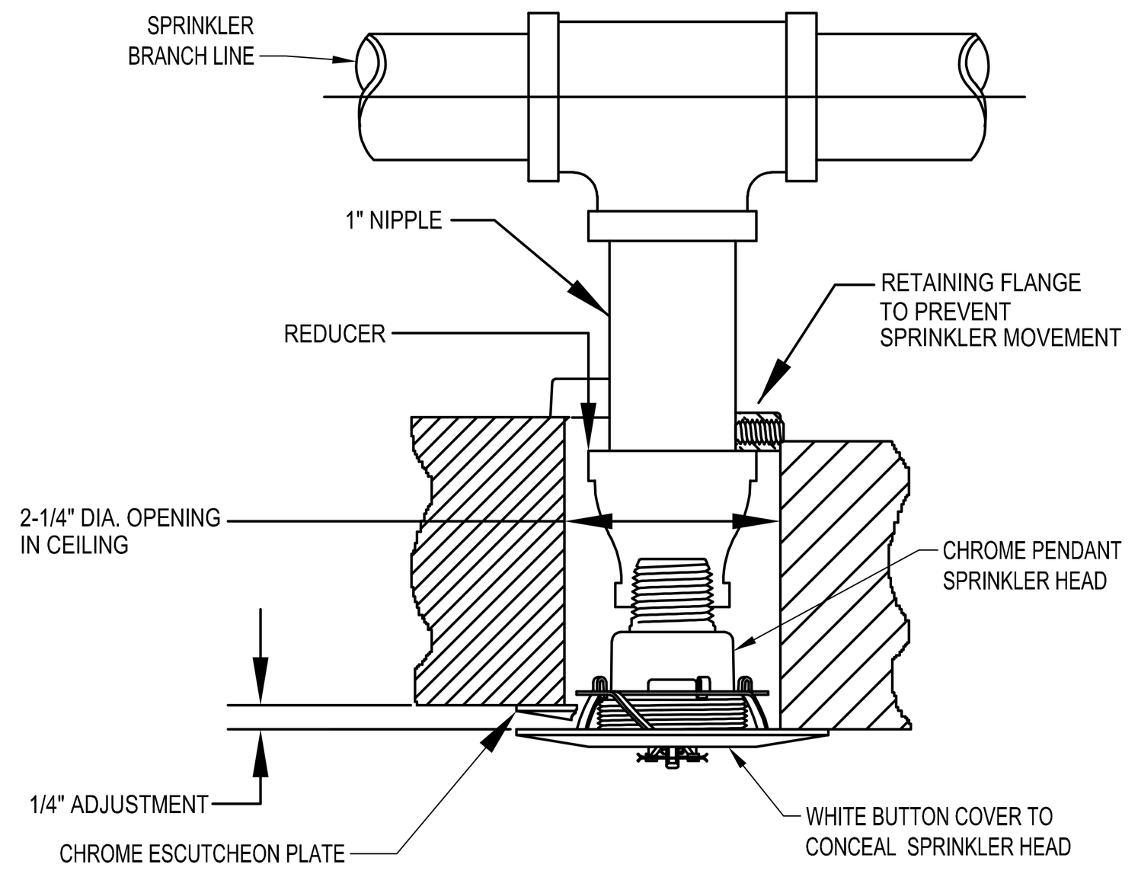
ABG	ABOVE GROUND
ALM	ALUMINUM
AQT	AQUATHERM
ASJ	ALL SERVICE JACKET
ASK	WHITE KRAFT FIBER PAPER
BEG	BELOW GROUND
BRZ	BRAZED
BST	BLACK STEEL PIPE
CCL	CONCEALED
CIS	CAST IRON SERVICE WEIGHT
CLG	CELLULAR GLASS
CPD	COPPER TYPE DWV
CPK	COPPER TYPE K
CPL	COPPER TYPE L
CPM	COPPER TYPE M
CSL	CALCIUM SILICATE
CTL	COPPER TUBING TYPE L
DI	DUCTILE IRON
ELM	ELASTOMERIC
EPC	EPOXY COATED
EXP	EXPOSED
FBG	FIBERGLASS
FLG	FLANGED
FSK	FOIL BACK KRAFT FIBER PAPER
FW	FUSION WELDED
GLU	GLUED
GRV	GROOVED
GSK	RUBBER GASKETS
GST	GALVANIZED STEEL
MIW	MINERAL WOOL
NHB	NO HUB FITTINGS
NPT	THREADED
PSN	PUSH ON
PRP	PRO PRESS
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SBS	SEAMLESS BLACK STEEL PIPE, SCH. 80
SLD	SOLDERED
SST	STAINLESS STEEL
WLD	WELDED

FIRE PROTECTION EQUIPMENT SCHEDULE

TAG	DESCRIPTION	ELECTRICAL POWER	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	BASIS OF DESIGN MFR	BASIS OF DESIGN SERIES	NOTES
RSR-101	VALVE RISER PACK, TEST, DRAIN, PRESSURE GAUGE, AND FLOW SWITCHES	--	24 V	1	VIKING	EASYPAC	CONNECT TO EXISTING FIRE PROTECTION SERVICE ENTRANCE AS INDICATED IN DETAIL

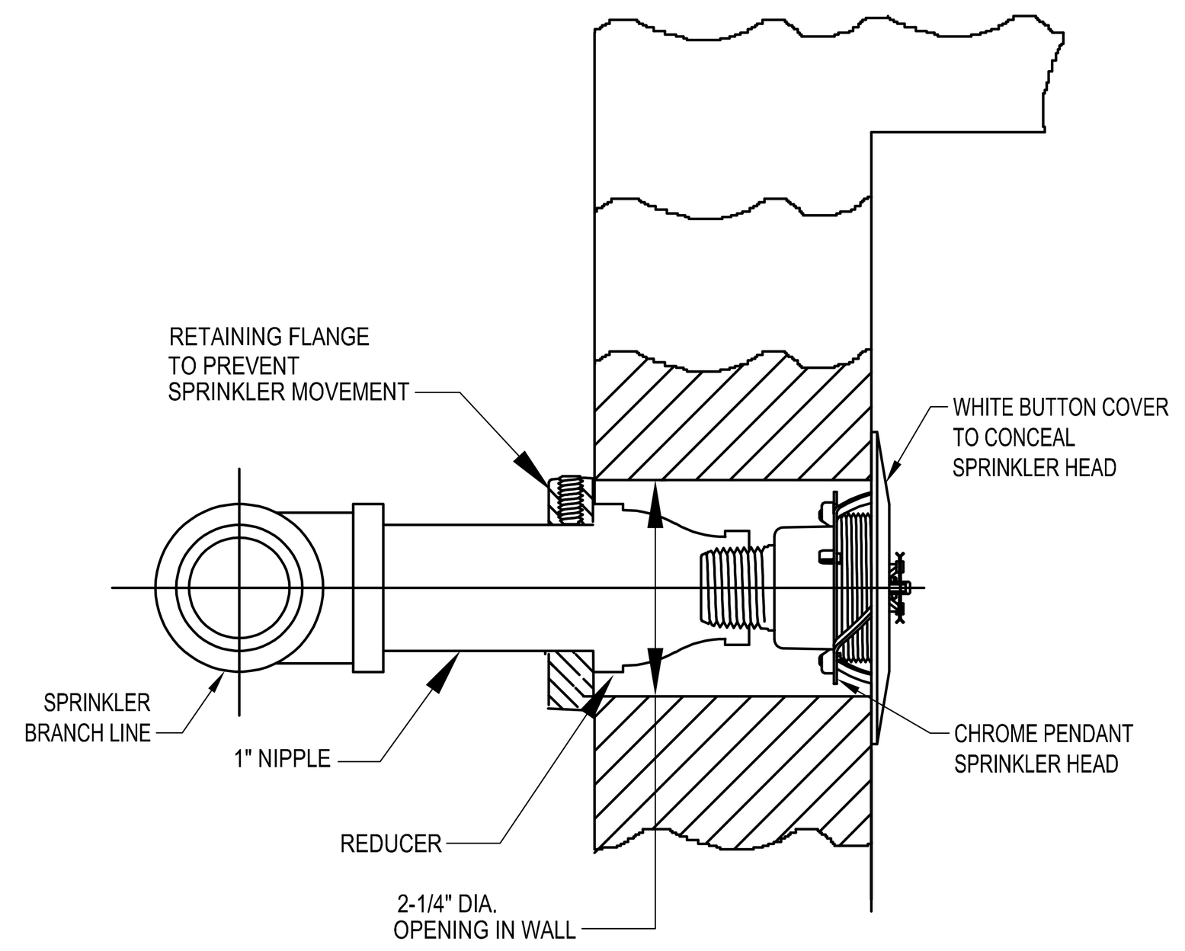
NOTES:

1. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.



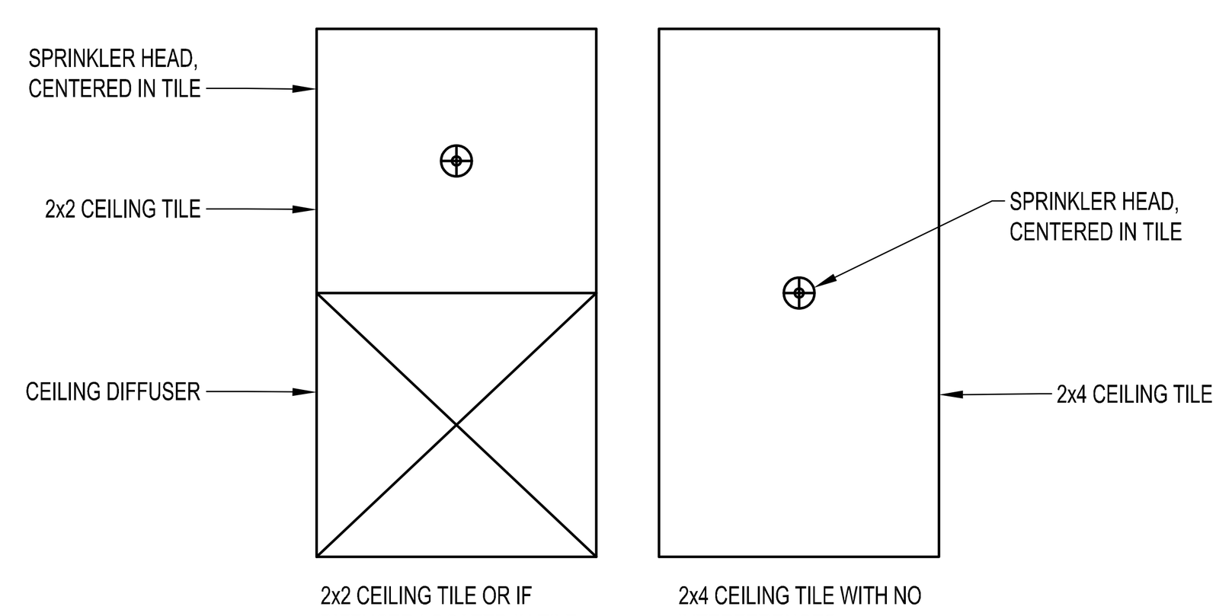
1 INSTITUTIONAL QUICK RESPONSE FLUSH PENDENT SPRINKLER - TYP

NOT TO SCALE



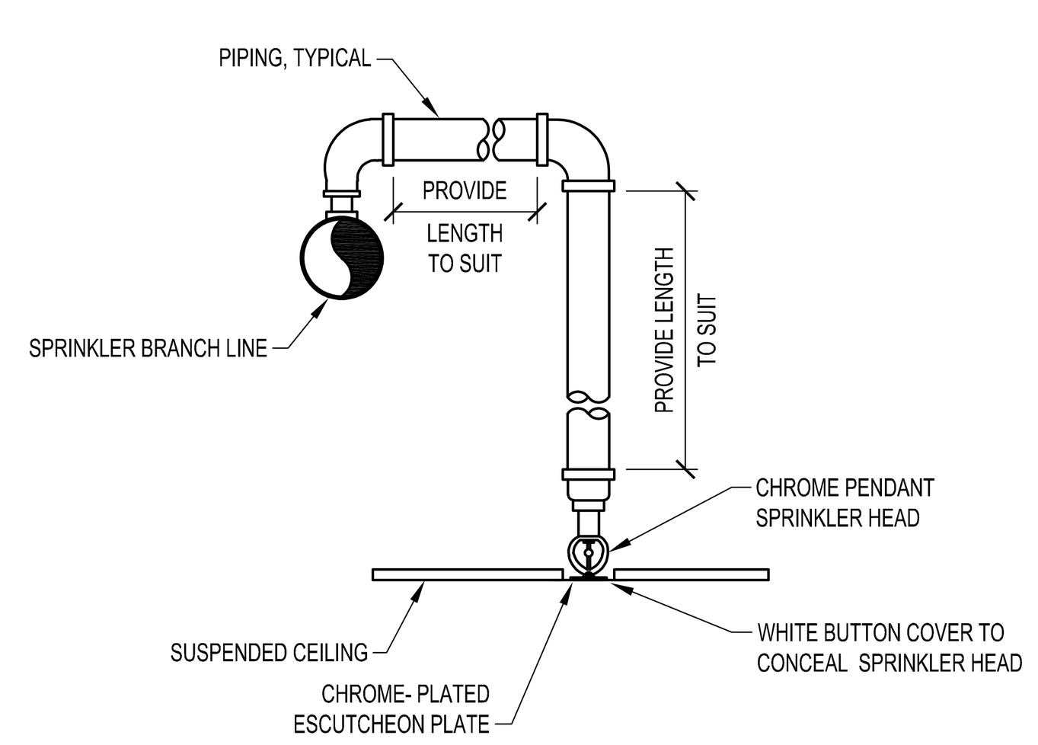
2 INSTITUTIONAL QUICK RESPONSE SIDEWALL SPRINKLER - TYP

NOT TO SCALE



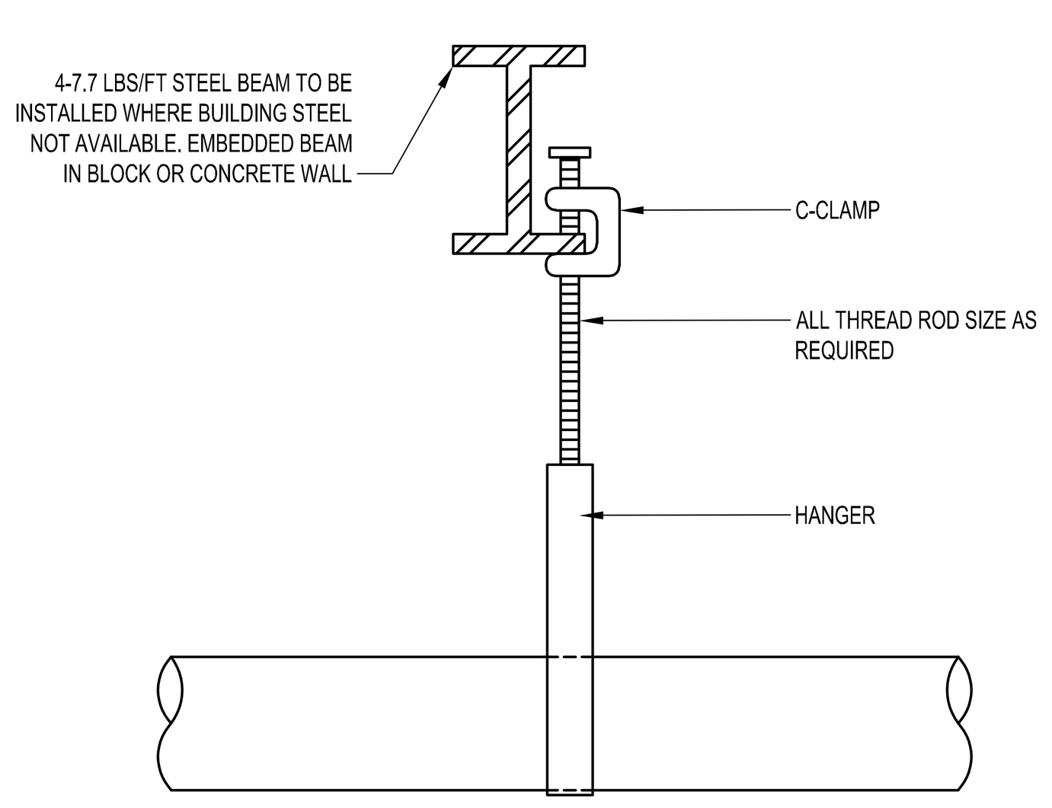
3 SPRINKLER HEAD LOCATION DETAIL - TYP

NOT TO SCALE



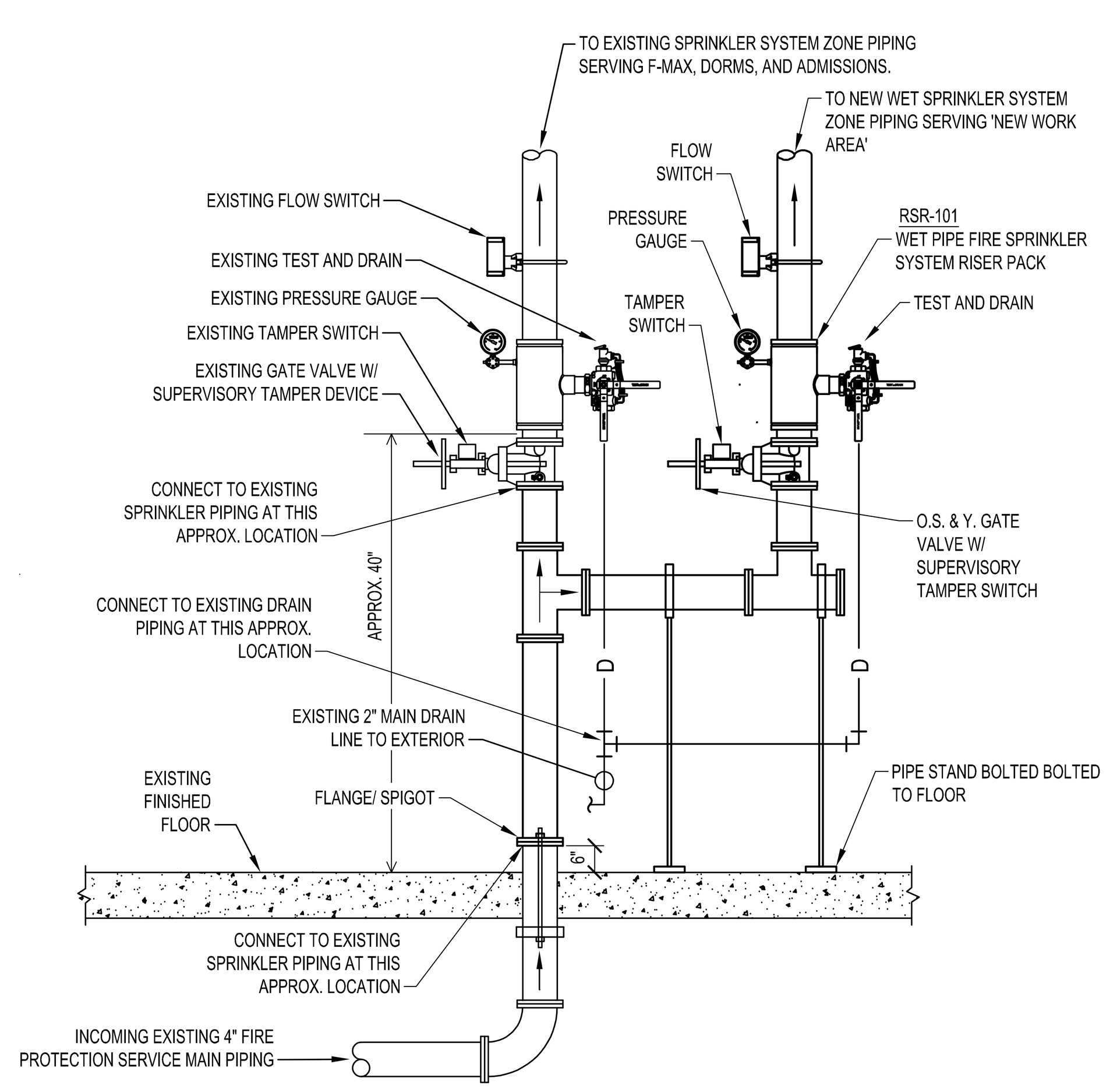
4 CONCEALED SPRINKLER HEAD DROP - TYP

NOT TO SCALE



5 PIPE HANGER AND SUPPORT - TYP

NOT TO SCALE

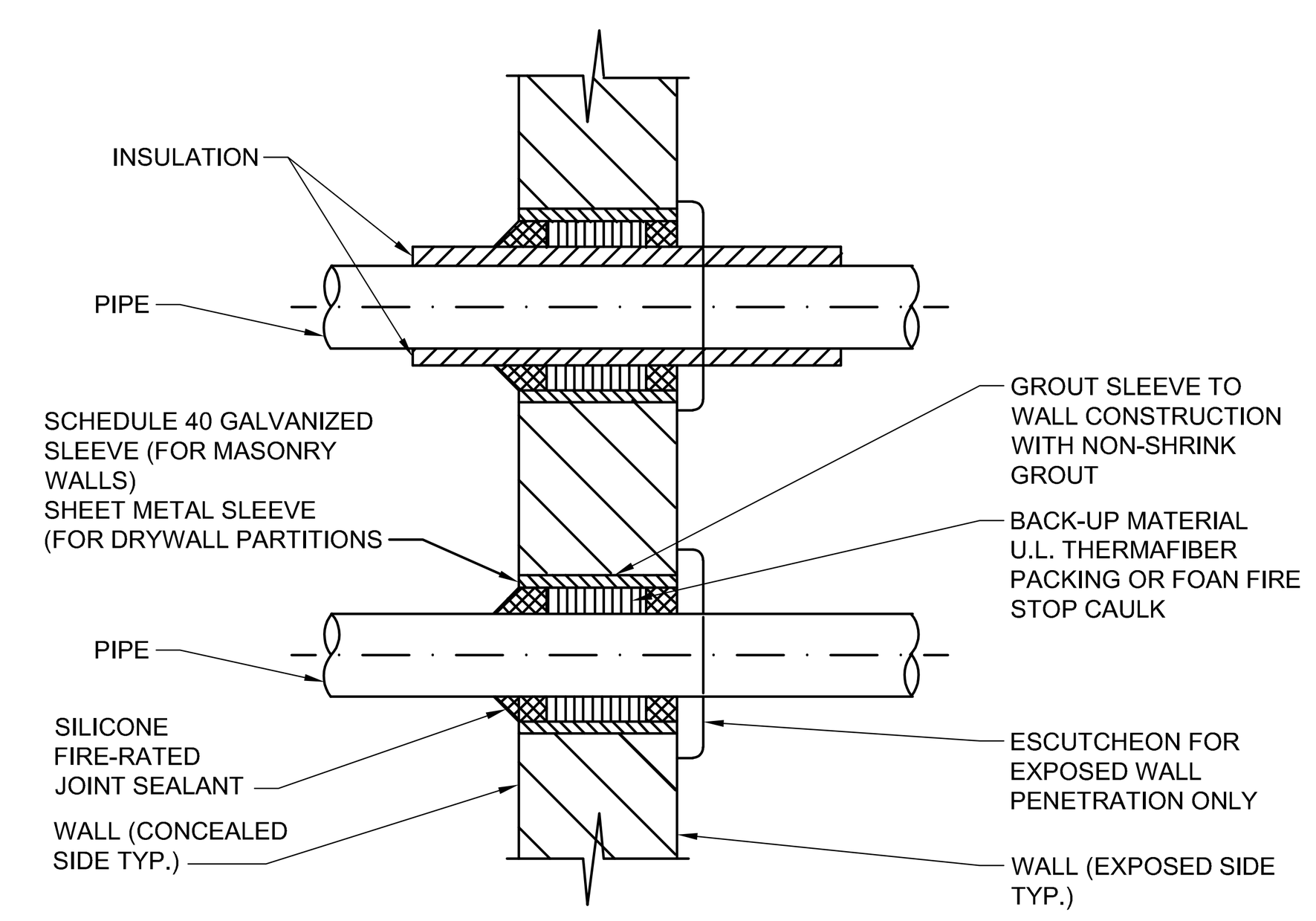


GENERAL NOTE:

1. FLOW AND TAMPER SWITCH DEVICES FURNISHED BY ELECTRICAL CONTRACTOR. SPRINKLER CONTRACTOR SHALL INSTALL. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL WIRING SWITCHES TO FIRE ALARM PANEL
2. EXISTING RISER PACK SERVING F-MAX, DORMS, AND ADMISSIONS IS INSTALLED AT APPROX. 40" FROM BOTTOM OF RISER PACK TO FINISHED FLOOR.
3. INSTALL NEW RISER PACK A SIMILAR MOUNTING HEIGHT AS EXISTING.
4. COORDINATE LOCATION OF NEW RISER PACK WITH OTHERS AND OWNER.
5. EXISTING FLANGE/SPIGOT IS LOCATED AT APPROX. 24". PROVIDE NEW FLANGE/SPIGOT AT MINIMAL 6" ABOVE FINISHED FLOOR. CONNECT TO EXISTING MECHANICAL JOINT THREADED ROD WITH NEW BOLT.

6 WATER SERVICE ENTRANCE AND RISER

NOT TO SCALE

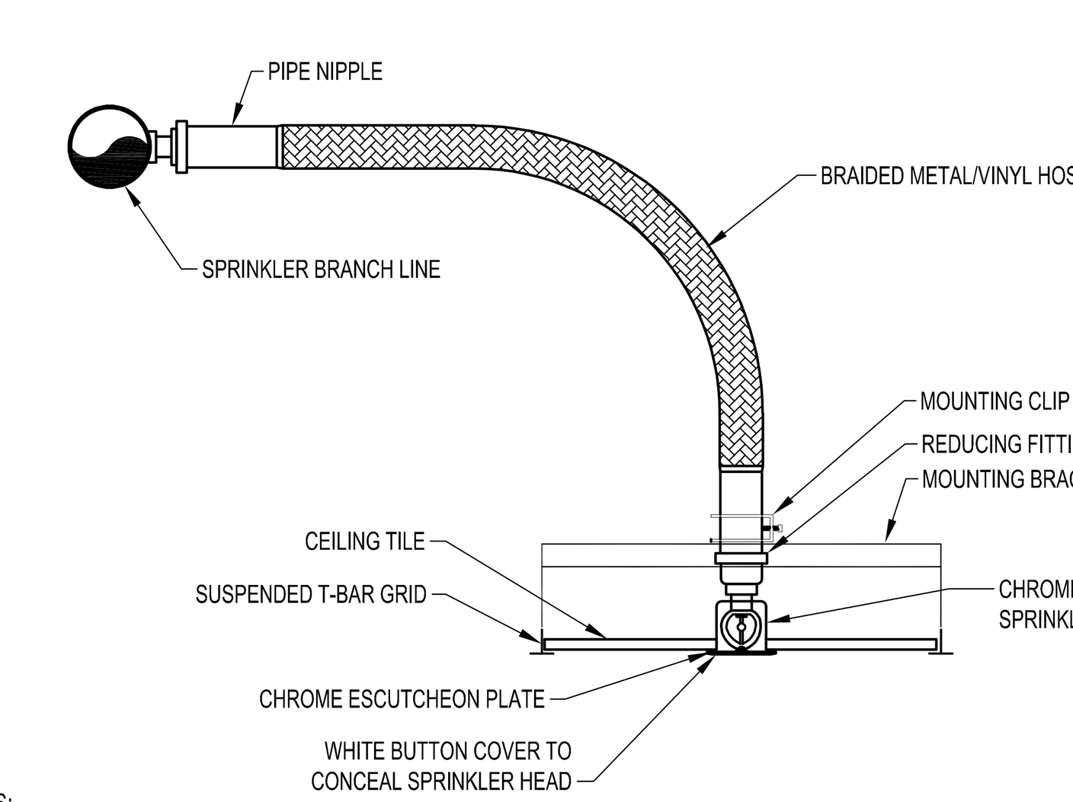


NOTES:

1. AT THE CONTRACTORS' OPTION A U.L. LISTED/APPROVED FIRE STOP PIPE SLEEVE ASSEMBLY MAY BE SUBMITTED FOR APPROVAL.
2. COORDINATE MOUNTING AND INSTALLATION LOCATIONS WITH OTHERS.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL FIRE-RATED WALLS AND RATINGS.
4. PROVIDE PIPE SEALANT RATED FOR FIRE-RATED WALL PENETRATION.
5. USE SIMILAR INSTALLATION FOR FIRE-RATED FLOOR PENETRATION.

7 PIPE SLEEVE THRU FIRE-RATED WALL - TYP

NOT TO SCALE



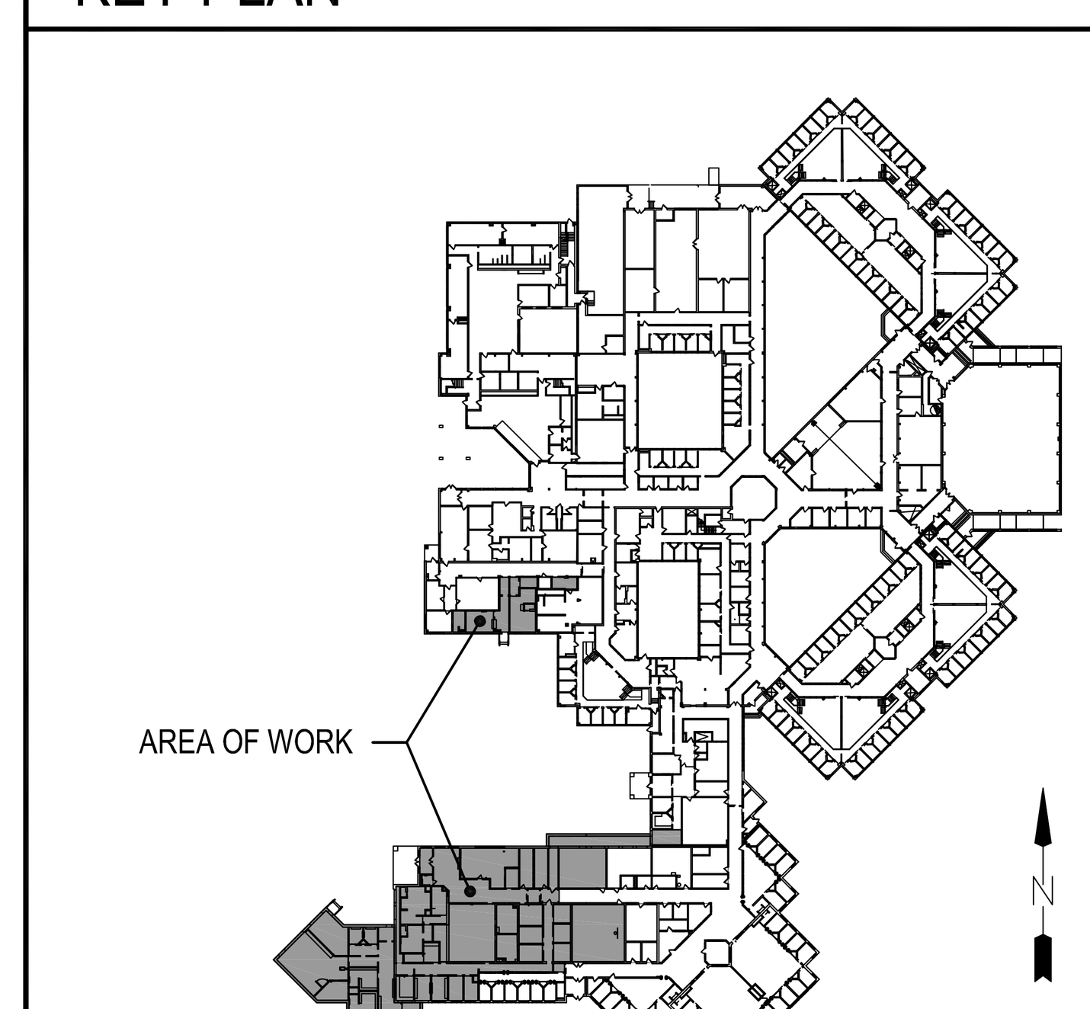
NOTES:

1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.

8 CONCEALED FLEXIBLE SPRINKLER HEAD DROP - TYP

NOT TO SCALE

KEY PLAN



ISSUED FOR BID

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REVISIONS MARK	ISSUED DATE	DESCRIPTION

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