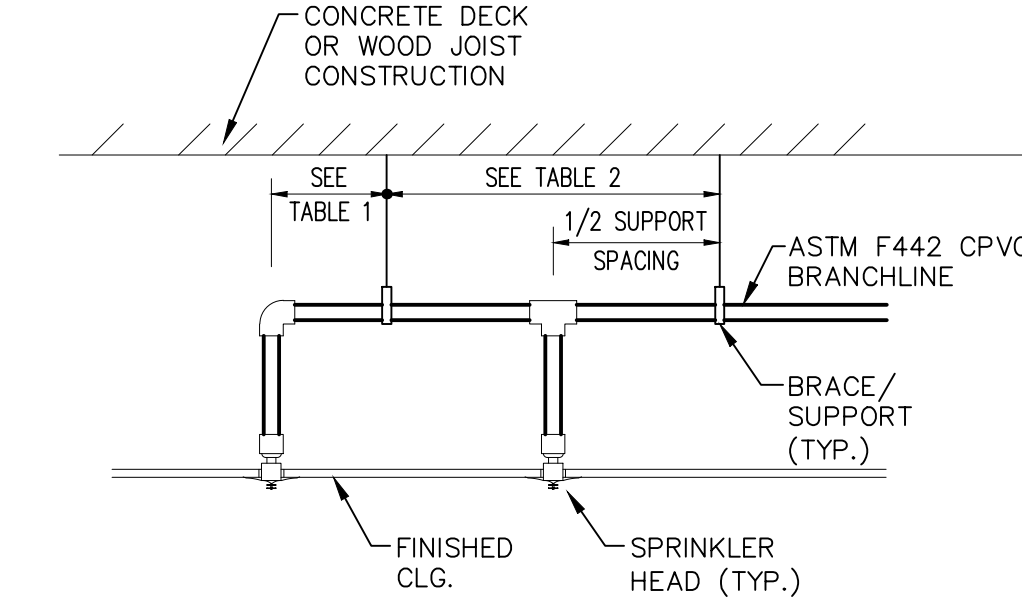
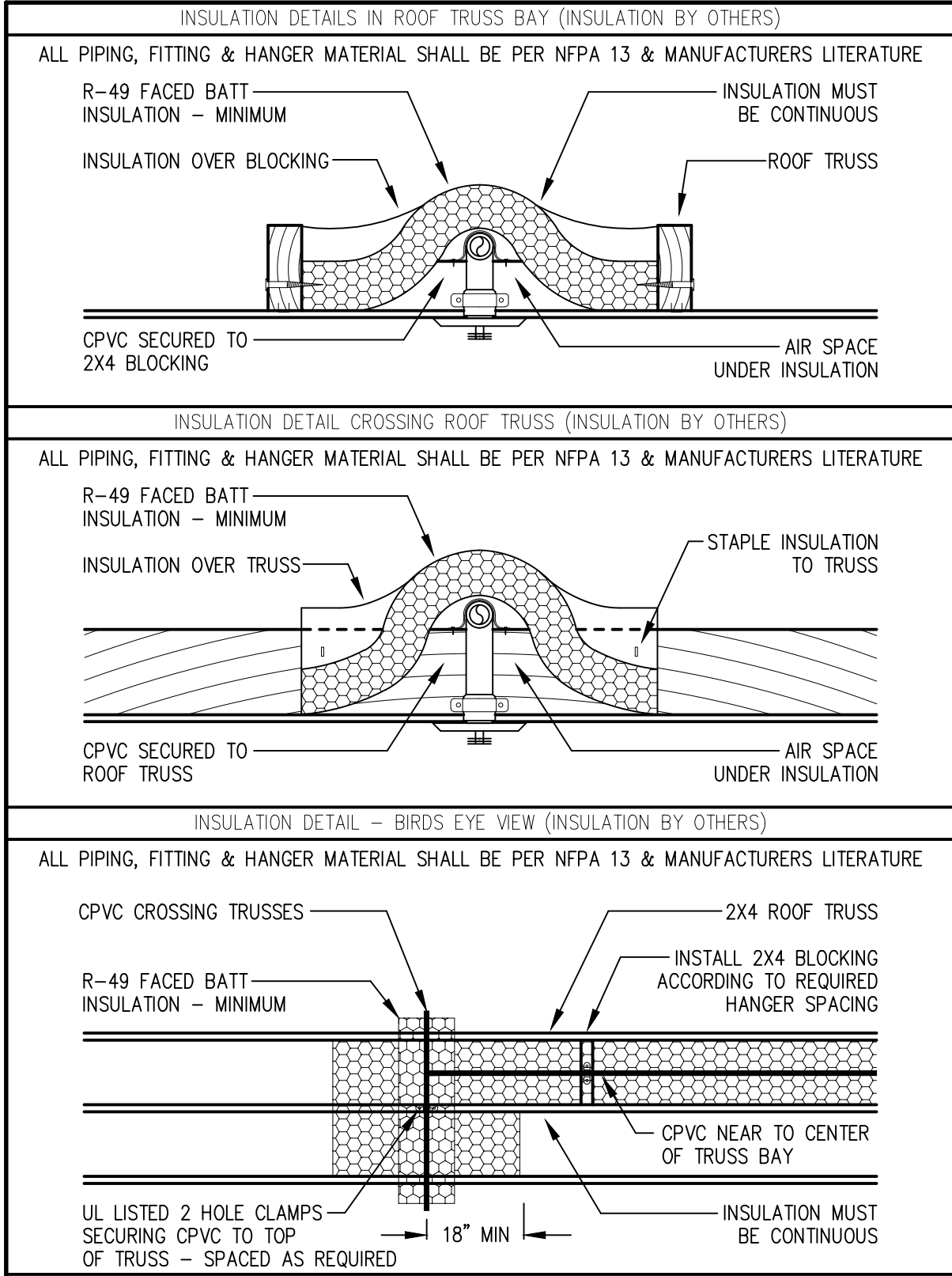
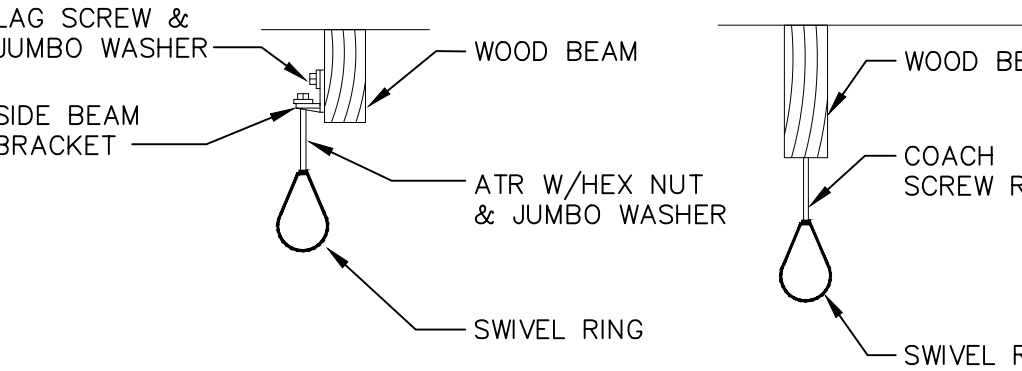




BLAZEMASTER MAXIMUM SUPPORT SPACING DETAIL



PIPE HANGER DETAILS

NO SCALE

TABLE 1 MAXIMUM SUPPORT SPACING DISTANCE END LINE SPRINKLER HEAD DROP ELBOW			
PIPE SIZE INCHES	SYSTEM PRESSURE		
	< 100 PSI	> 100 PSI	
3/4"	9"	6"	
1"	12"	9"	
1 1/4"	16"	12"	
1 1/2"-3"	24"	12"	

TABLE 2 MAXIMUM SUPPORT SPACING DISTANCE INLINE SPRINKLER HEAD DROP TEE			
PIPE SIZE INCHES	SYSTEM PRESSURE		
	< 100 PSI	> 100 PSI	
3/4"	4'	3'	
1"	5'	4'	
1 1/4"	6'	5'	
1 1/2"-3"	7'	7'	

PIPE HANGER NOTES:

MAXIMUM DISTANCE OF HANGERS:

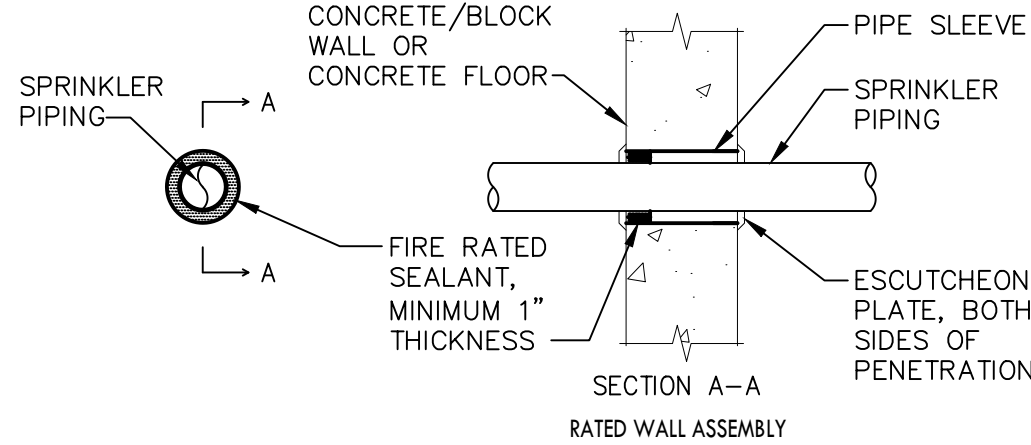
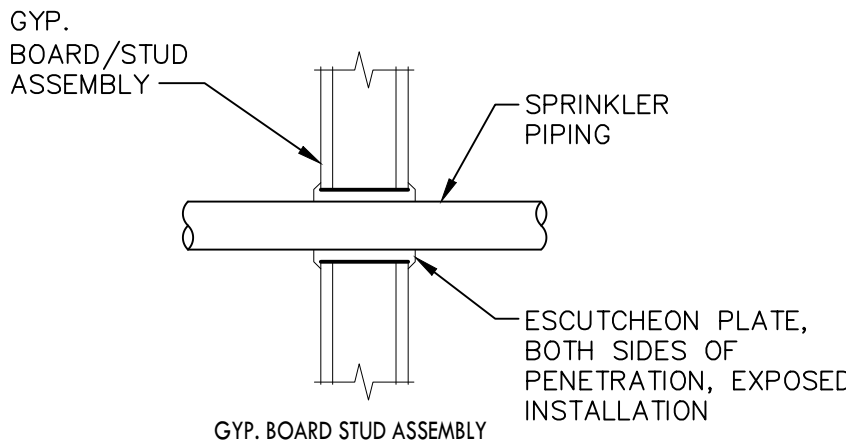
FOR ALL STEEL PIPE 1" - 1 1/4" = 12'-0" O/C
FOR ALL OTHER SIZES = 15'-0" O/C

THE UNSUPPORTED LENGTH FROM THE LAST SPKL:

FOR 1" PIPE NOT MORE THAN 36"
FOR 1 1/4" PIPE NOT MORE THAN 48"
FOR 1 1/2" + LARGER PIPE NOT MORE THAN 60"

HANGER ROD SIZES:

PIPE UP TO AND INCLUDING 4" - 3/8" ATR
6" AND 8" PIPE - 1/2" ATR



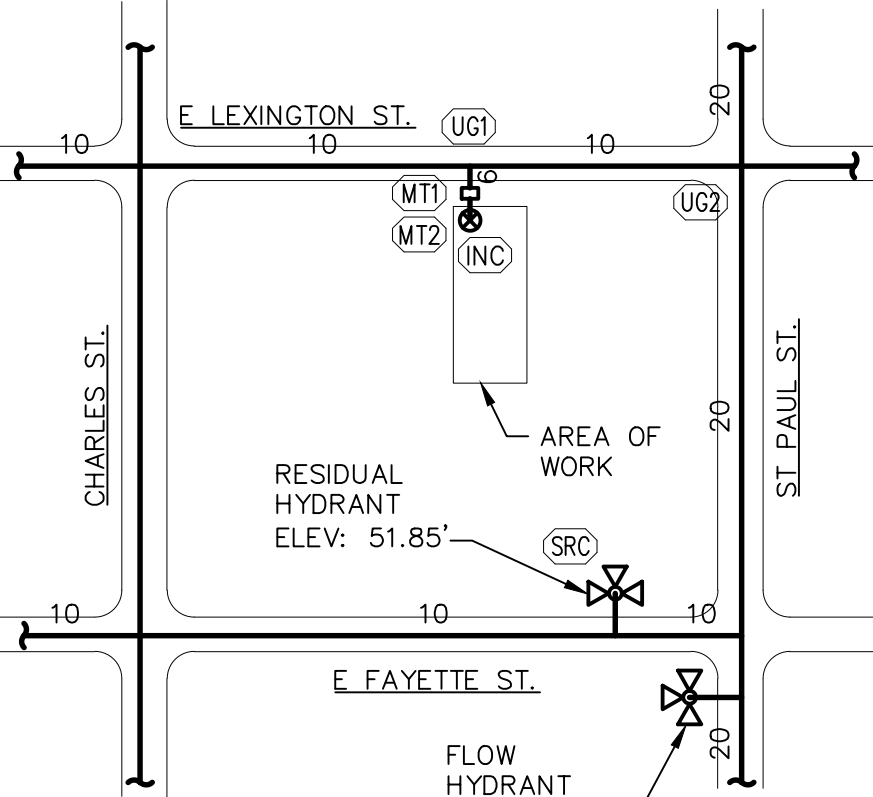
WALL PENETRATION DETAILS

NO SCALE

NOTE: CONCEALED SLEEVES IN WALLS SHALL EXTEND .375 INCHES THROUGH EACH WALL SURFACE. SLEEVES PASSING THROUGH FLOORS SHALL EXTEND .375 INCHES ABOVE TOP OF FINISHED FLOOR. ALL SLEEVES SHALL BE FINISHED NEAT AND LEVEL

WATERFLOW TEST INFO:

STATIC: 66 PSI
RESIDUAL: 62 PSI
FLOW: 1146 GPM
DATE: 05-06-22
BY: DPW
LOCATION: HYDRANT (SRC)

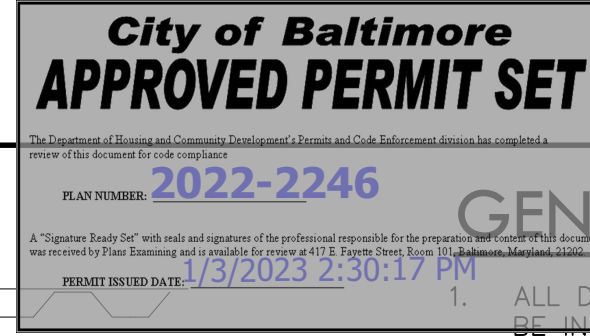


SITE PLAN

NO SCALE

BUILDING CROSS SECTION

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



GENERAL NOTES:

- ALL DESIGN, MATERIAL, FABRICATION, INSTALLATION, & TESTING TO BE IN ACCORDANCE WITH NFPA 13, 2016 ED. & THE LOCAL AUTHORITY HAVING JURISDICTION.
- PIPE DIMENSIONS ARE CENTER TO CENTER LENGTHS.
- THIS CONTRACTORS WORK IS THE INSTALLATION OF A NEW WET PIPE SPRINKLER SYSTEM FOR THE ENTIRE BUILDING. THE BASEMENT SHALL BE ORDINARY HAZARD GR I OCCUPANCY, AND THE REMAINDER OF THE BUILDING IS LIGHT HAZARD.
- THIS CONTRACTORS WORK SHALL BEGIN ON THE SPRINKLER SYSTEM SIDE OF THE BACKFLOW.
- ALL CORE-DRILLING ALONG WITH SEALING OF PENETRATIONS IS TO BE DONE BY THE GENERAL CONTRACTOR. WHERE PENETRATIONS ARE MADE IN FIRE-RATED WALLS, THE SEALANT USED SHALL HAVE A FIRE-RATING MATCHING THAT OF THE PENETRATED WALL.
- THE SPRINKLER SYSTEM HAS BEEN HYDRAULICALLY DESIGNED BASED ON .10 GPM/sf OVER THE MOST REMOTE 900sf AREA FOR LIGHT HAZARD AREAS. THE SPRINKLER SYSTEM HAS BEEN HYDRAULICALLY DESIGNED BASED ON .15 GPM/sf OVER THE MOST REMOTE 900sf AREA FOR ORDINARY HAZARD GROUP I AREAS (40% REDUCTION FOR < 10' HIGH CEILING).
- SPRINKLER SPACING FOR SPRINKLERS IN LIGHT HAZARD AREAS SHALL NOT EXCEED 168sqft. SPRINKLER SPACING FOR SPRINKLERS IN BASEMENT SHALL NOT EXCEED 130sqft.
- PIPE LOCATED IN ATTIC SHALL BE INSULATED PER NFPA 13. INSULATION SHALL HAVE A MINIMUM RATING AS REQUIRED BY NFPA 13. INSULATION SHALL BE PROVIDED AND INSTALLED BY OTHERS.
- A 200 PSI (2 HOUR) HYDROSTATIC TEST SHALL BE PERFORMED FOR THE WET SYSTEM UPON COMPLETION OF INSTALLATION.
- ALL WALLS ARE FULL HEIGHT TO DECK, UNO.
- SPRINKLER SYSTEM SHALL BE MONITORED BY A FIRE ALARM CONTROL PANEL, ALARM, SUPERVISORY, AND TROUBLE SIGNALS SHALL BE SUPERVISED BY OTHERS.
- PROPER SIGNAGE SHALL BE PROVIDED ON ALL NECESSARY SPRINKLER COMPONENTS.
- PIPING AND FITTINGS:
ALL PIPE SHALL BE 1", UNO.

ALL CONCEALED PIPING IN LIGHT HAZARD AREAS SHALL BE CPVC

ALL EXPOSED PIPING SHALL BE BLACK STEEL

ALL PIPING IN ORDINARY HAZARD AREAS SHALL BE BLACK STEEL

ALL CPVC PIPE SHALL BE GLUED WITH GLUED CPVC FITTINGS WITH THREADED FITTINGS.

ALL BLACK STEEL PIPE 2" AND SMALL SHALL BE SCH 40 WITH THREADED FITTINGS.

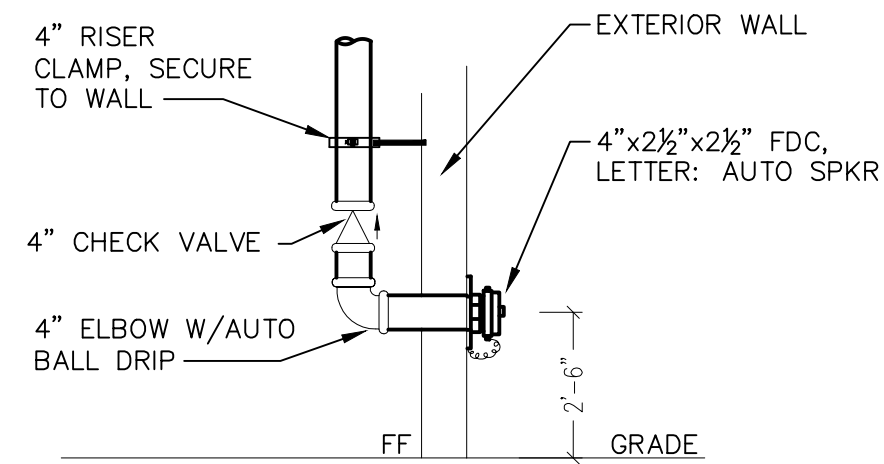
ALL BLACK STEEL PIPE 2 1/2" AND LARGER SHALL BE SCH 10 WITH GROOVED FITTINGS.

ABBREVIATIONS:

ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
ED	EDITION
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
GYP	GYPSUM
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
O/C	ON CENTER
OR	QUICK RESPONSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
ZCA	ZONE CONTROL ASSEMBLY

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	RISE IN PIPE
	DROP IN PIPE
	SPRINKLER BRANCHLINE
	SPRINKLER MAIN
	OS&Y GATE VALVE W/ VALVE TAMPER SUPERVISORY SWITCH
	CHECK VALVE
	HYDRAULIC NODE
	FINISHED FLOOR TO CENTERLINE OF PIPE

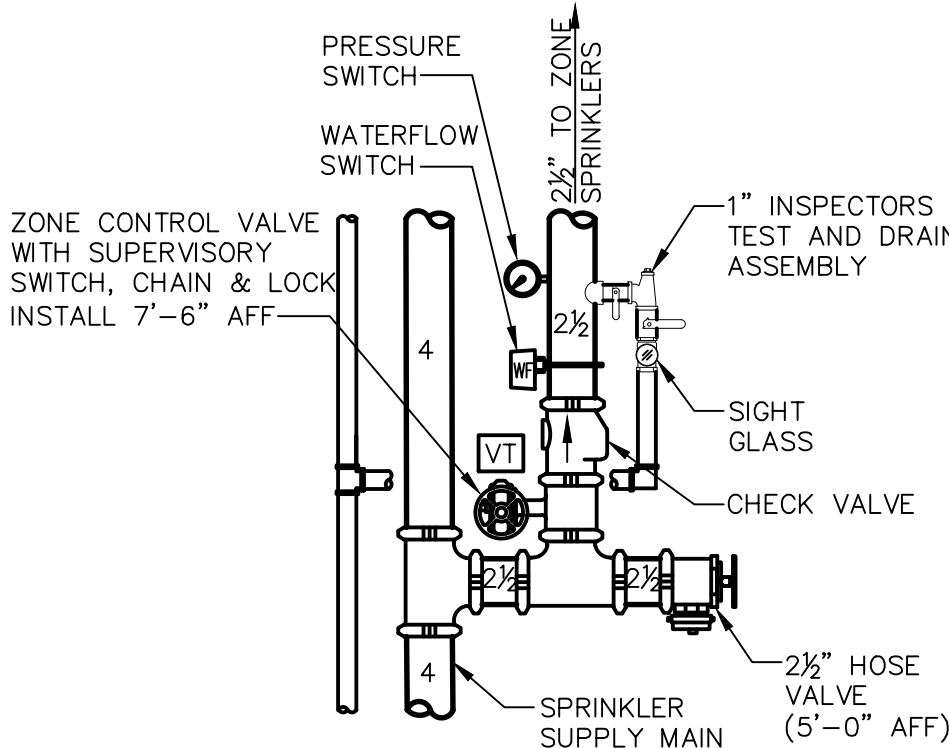


FIRE DEPARTMENT CONNECTION DETAIL

NO SCALE

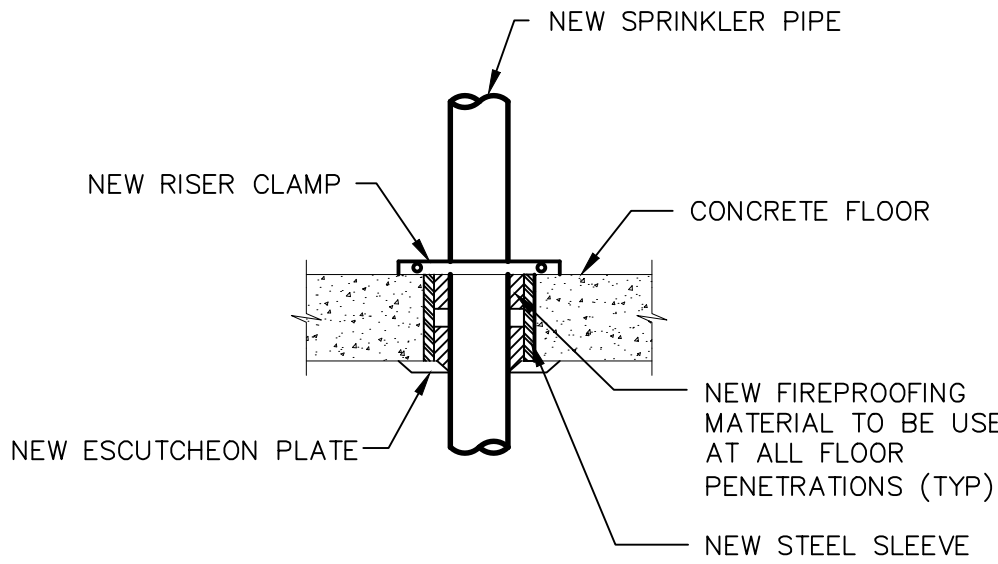
SPRINKLER SYSTEM RISER DETAIL

NOTE: BASEMENT IS A 4" ZONE CONTROL ASSEMBLY. ALL ZONE OTHER CONTROL ASSEMBLIES SHALL BE 2 1/2"



TYPICAL ZONE CONTROL ASSEMBLY DETAIL

NO SCALE



FLOOR/CEILING PIPE PENETRATION DETAIL

NO SCALE

NOTES:

- TYP AT ALL FIRE RATED FLOOR PENETRATIONS.
- ALL SLEEVES USING FIRE STOPPING MATERIAL SHALL BE SEALED TO EQUAL OR EXCEED A 2 HOUR FIRE RATING.

SPRINKLER LEGEND

MIN DIST.	K-FACTOR	SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	SIZE	TEMP.	COLOR	ESCH.	TOTAL
6'-0"	5.6	●	QR PENDENT	SENJU (SS4451)	1/2	155	WHITE	WHITE	181
6'-0"	5.6	○	QR UPRIGHT	TYCO (TY313)	1/2	155	BRASS	-	41
6'-0"	5.6	<	QR SIDEWALL	TYCO (TY3331)	1/2	155	WHITE	WHITE	6

GRAPHIC SCALE



1/8" = 1'-0"

11 E LEXINGTON ST.

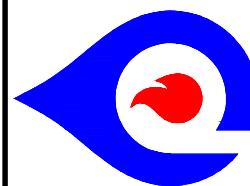
BALTIMORE, MD 21202

DRAWN BY: KCT

DATE: 05/30/22

SCALE: AS NOTED

Sheet 1 of 2



PLATINUM SPRINKLER, LLC
2514 GREENE RD.
BALTIMORE, MD 21203

MD SPRINKLER CONTRACTOR - MSC-429

Approval:

Christopher N. Burns, CET
Nict Level III
Cert. No: 111865

FP-1



SCALE: $\frac{1}{8}" = 1'-0"$

FILE: Standpipe Calc.sdf	
HYDRAULIC SUMMARY	
H.J.: BALTIMORE CITY	
DESIGN DATA AREA 1	
PIPE DEPT:	1500GPM@150PSI
HAZARD:	STANDPIPE CALC
HOSE VALVE SIZE:	2 1/2"
COMMAND AT SOURCE	
FLOW:	506.2 GPM
PRESSURE:	161.5 PSI
OUTSIDE HOSE:	0.0. GPM
AVAILABLE AT SOURCE	
FLOW:	506.2 GPM
PRESSURE:	208.8 PSI
SAFETY:	47.3 PSI (22%)



SCALE: $\frac{1}{8}" = 1'-0"$



SCALE: $\frac{1}{8}" = 1'-0"$



SCALE: $\frac{1}{8}" = 1'-0"$



SCALE: $\frac{1}{8}" = 1'-0"$



SCALE: $\frac{1}{8}" = 1'-0"$

[illegible]

FILE: Remote Area B.sdf

HYDRAULIC SUMMARY

H.J.: BALTIMORE CITY

DESIGN DATA AREA 1

ENSITY:	15gpm/sqft
HAZARD:	ORDINARY GR I
PACING:	130sqft

DEMAND AT SOURCE

LOW:	493.2 GPM
RESSURE:	49.4 PSI
UTSIDE HOSE:	250.0 GPM

AVAILABLE AT SOURCE

LOW:	493.2 GPM
RESSURE:	65.2 PSI
AFETY:	15.8 PSI (24%)

SHEET TOTAL	228
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DRAWN BY: KCT	DATE: 05/30/22
SCALE: AS NOTED	Sheet 2 of 2

Owner Information:		Contract		Symbols	
		Exclusions	System	Symbol	Description
—		WIRING	☒ WET	⊙	Hydraulic Reference Points
—		PANTING	☒ DRY	*---	Elev. Below Top of Steel
—	Contract with:	PATCHING	☒ PRE-ACT	+---	Elev. Above Finished Floor
—		CUTTING	☒ DELUGE	⊗	Ceiling Height
—		BF PREVENT	☒ FOAM	o	Rise Up
	Revision Notes	DETECTORS	☒ CO2	•	Drop Down
Number	Revision	ACCESS PANELS	☒ FM 200	⊞	Coupling
1	ORIGINAL SUBMITTAL	CORE DRILLING	☒ EXPOSURE	⊗	System Riser
	Date:				
	01/19/21				

PLATINUM SPRINKLER, LLC
2514 GREENE RD.
BALDWIN, MD 21013
MD SPRINKLER CONTRACTOR – MSC-429

Approval:
Christopher N. Burns, CET Nicet Level III Cert. No.: 111865

FP-2