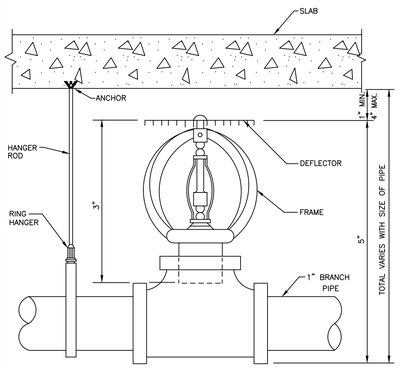
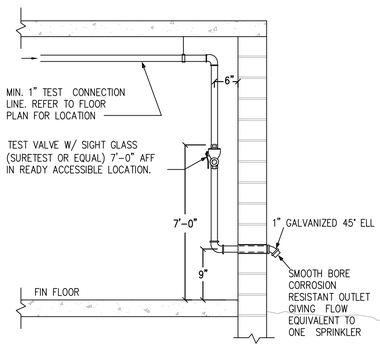


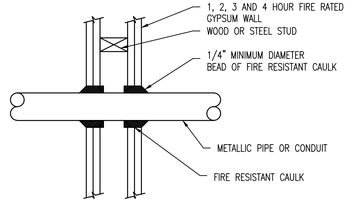
UPRIGHT HEAD DETAIL

NOT TO SCALE



INSPECTOR'S TEST CONNECTION DETAIL

NOT TO SCALE



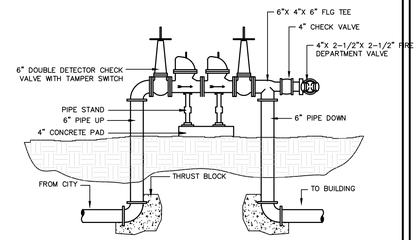
NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" MINIMUM BEAD OF FIRE RESISTANT CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16".

UL SYSTEM # W-L-1001 (F RATINGS - 1, 2, 3 AND 4 HOUR

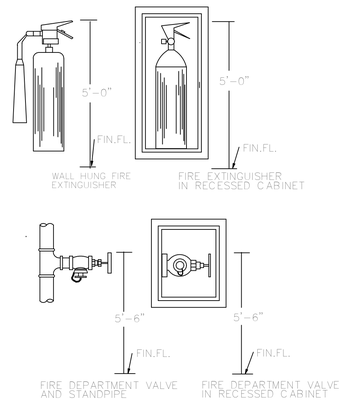
FIRE RATED PIPE PENETRATION DETAIL

NOT TO SCALE



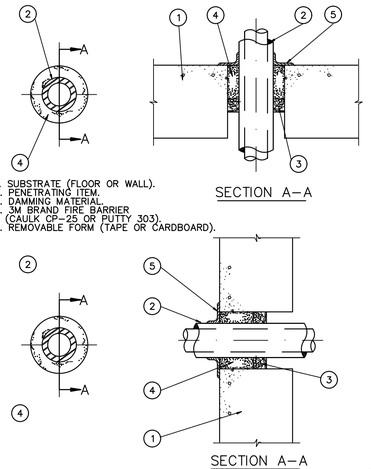
DOUBLE DETECTOR CHECK VALVE DETAIL

NTS DDDHECK



FIRE EQUIPMENT MOUNTING HEIGHTS DETAIL

NOT TO SCALE

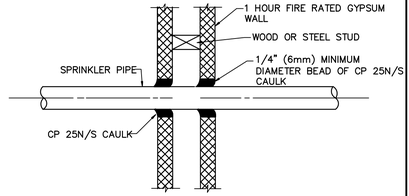


1. SUBSTRATE (FLOOR OR WALL).
2. PENETRATING ITEM.
3. DAMMING MATERIAL.
4. 3M BRAND FIRE BARRIER (CAULK CP-25 OR PUTTY 303).
5. REMOVABLE FORM (TAPE OR CARDBOARD).

FIRE RATED PIPE PENETRATION (2HR) DETAIL

NOT TO SCALE

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH GYPSUM WALL BOARD
(CROSS-SECTIONAL VIEW OF PENETRATION SEAL ASSEMBLY)



NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6 mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT PIPE AT ITS EGREES FROM THE WALL.
3. THE MAXIMUM ANNUAL SPACE IS NOT TO EXCEED 3/16"(5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #147.

FIRE RATED PIPE PENETRATION (1HR) DETAIL

NOT TO SCALE

HANGER SPAN SCHEDULE

STEEL PIPE

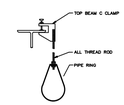
DIA., IN.	SPAN, FT-IN	DIA., IN.	SPAN, FT-IN
1	7'-(2.1)	4	14'-(4.3)
1 1/2	9'-(2.1)	5	16'-(4.9)
2	10'-(3.1)	6	17'-(5.2)
2 1/2	11'-(3.4)	8	19'-(5.8)
3	12'-(3.7)	10	22'-(6.7)

COPPER TUBING

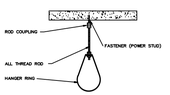
NOMINAL DIA., IN.	SPAN, FT-IN	NOMINAL DIA., IN.	SPAN, FT-IN
1/2	5'-(1.5)	2	9'-(2.7)
3/4	6'-(1.8)	2 1/2	10'-(3.1)
1	6'-(1.8)	3	10'-(3.1)
1 1/4	7'-(2.1)	3 1/2	11'-(3.4)
1 1/2	8'-(2.4)	4	12'-(3.7)

HANGER ROD SCHEDULE

PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 6"	5/8" DIA.
2 1/2 " TO 3"	1/2"	6" THRU 12"	7/8" DIA.
		14" THRU 16"	1" DIA.



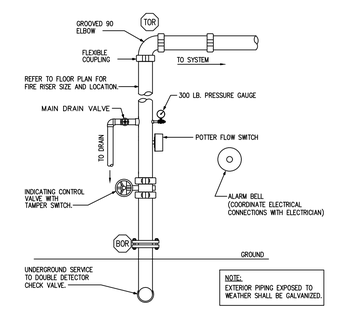
FOR STEEL BAR JOIST



FOR CONCRETE CEILING

SPRINKLER PIPE HANGING DETAILS

NOT TO SCALE



NOTE:
EXTERIOR PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED.

FIRE RISER DETAIL

NOT TO SCALE

THIS DOCUMENT CONTAINS CONFIDENTIAL MATERIAL AND TRADE SECRET INFORMATION BELONGING EXCLUSIVELY TO WILLIAMSON DACAR ASSOCIATES, INC. ANY UNAUTHORIZED USE, DISCLOSURE, DISSEMINATION OR DUPLICATION OF ANY OF THE INFORMATION CONTAINED HEREIN MAY RESULT IN LIABILITY UNDER APPLICABLE LAWS.

WILLIAMSON DACAR ASSOCIATES
Architecture Planning Engineering
ARCHITECTURE / ENGINEERING / PLANNING
15500 LAGO DEL SOL BLVD, SUITE 106
CLEARWATER, FL 33760
PH (727) 725-0951 www.williamsondacar.com

Architect: AA 0002541
Engineering: EB 0006884

project CAINE ENGINEERING INCORPORATED
RESPONSIVE ENGINEERING
MECHANICAL ELECTRICAL PLUMBING/FIRE PROTECTION
1845 EAST BERRY BLVD. SUITE 204
WASHINGTON, PENNSYLVANIA 15301
P 724.747.8888 F 724.747.8924
www.projectcaine.com
#PE066888A01, CA#3551

ROBERT B. CAINE LICENSE No. 37637 STATE OF FLORIDA PROFESSIONAL ENGINEER

WELLINGTON GREEN PARCEL 'F'
PHASE II RETAIL 'H' MODIFICATION
2545 SOUTH STATE ROAD 7
WELLINGTON, FLORIDA 33444

Revisions of Drawings

No.	Date	Revisions

Issues of Drawings

No.	Date	Issues
1	06.15.16	100% CD - PERMIT SET

Phase:
Checked:
Drawn: BDL

Drawing Title
FIRE PROTECTION DETAILS

WDA Proj. No.: 1526-01
Owner Proj. No.:
Scale: AS NOTED

Sheet No.
FP-7.1
No. of Sheets: