

- RYSER R2 SYSTEM #2**
 DRY SYSTEM
 TO PARKING GARAGE
 2" DIA. DUCTS
- RYSER R1 SYSTEM #1**
 WET SYSTEM
 2" DIA. DUCTS
- RYSER LEGEND**
- 4" A&S MODEL 200R/B BACKFLOW PREVENTER WITH TAMPERED BUTTERFLY CONTROL VALVES
 - 4" BUTTERFLY CONTROL VALVE WITH TAMPER SWITCH
 - 4" VICTALIC MODEL 747 QUICK RISER
 - POTTER V&F VANE TYPE FLOW SWITCH
 - 8" VICTALIC MODEL 756 QUICK RISER RRY PIPE VALVE WITH TRM 1/6HP, 115/60-1 VOLTS SINGLE PHASE (RISER MOUNTED)
 - CAST AIR COMPRESSOR MODEL L4A-46S-MODXO
 - PIPE STANDS
 - 2" TO MAIN DRAIN EXTERIOR
 - 12 COUNT SPARE HEAD BOX WITH WRENCH
 - 6" ELECTRIC BELL (SEE FIRST FLOOR PLAN)
 - 4" STGZ FIRE DEPARTMENT CONNECTION (SEE FIRST FLOOR PLAN)
 - MAIN DRAIN EXTERIOR DISCHARGE (SEE FIRST FLOOR PLAN)
 - 3" WATER PRESSURE GAUGE

VICTALIC MODEL V2742² RESIDENTIAL CONCEALED PENDENT HEAD CHART FOR VICTALIC MODEL V2742² RESIDENTIAL CONCEALED PENDENT CONCEALED PENDENT K-FACTOR=4.9 SIN # V2742

MAXIMUM SPACING AREA FT. x FT.	MAXIMUM SPACING FT.	MINIMUM SPACING FT.	MINIMUM FLOOR AND RESIDUAL PRESSURE PER SPRINKLER GPM @ PSI RATED AT 155°F
16 x 16	16	8	13 GPM
18 x 18	18	8	17 GPM
20 x 20	20	8	20 GPM

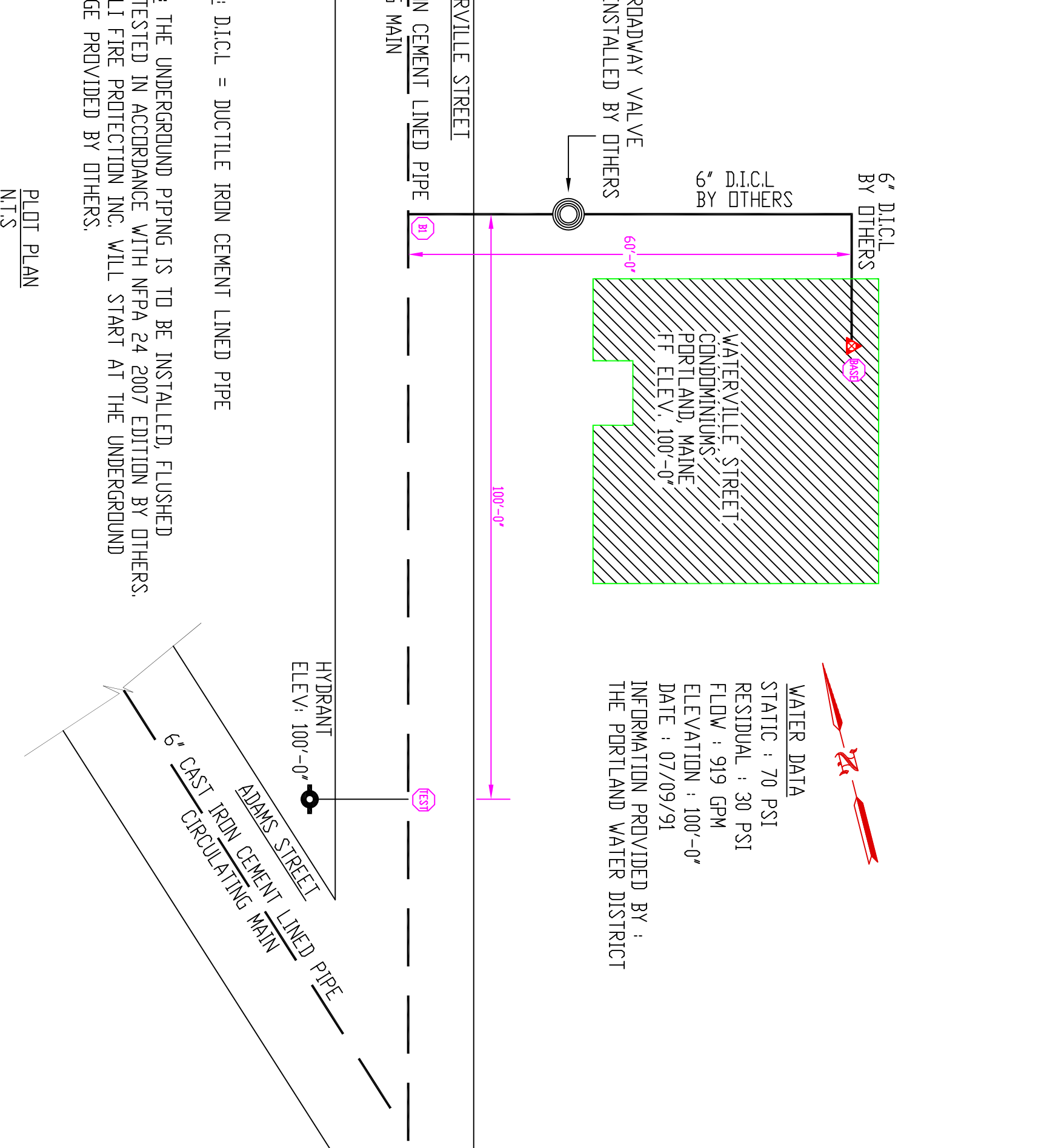
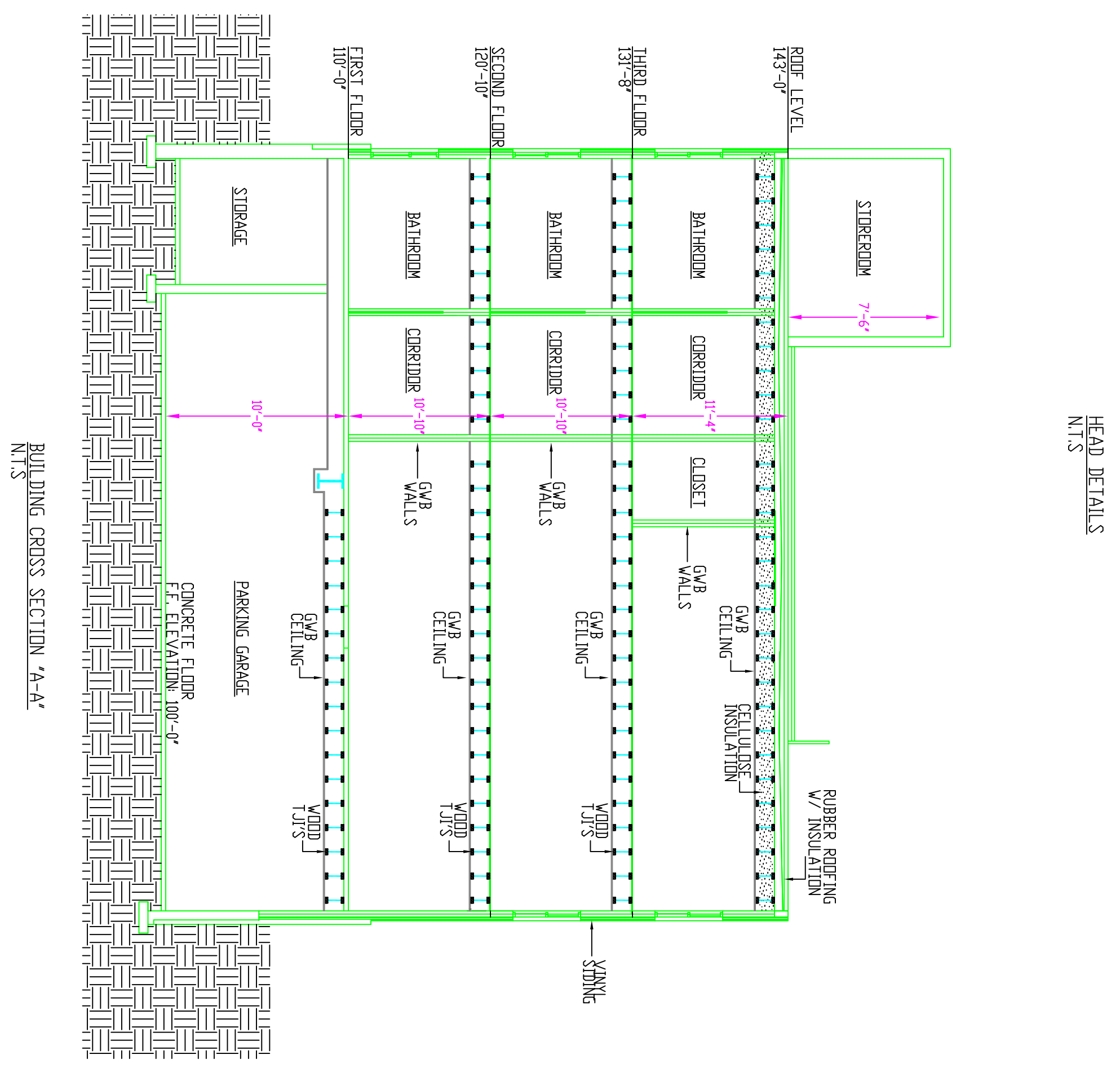
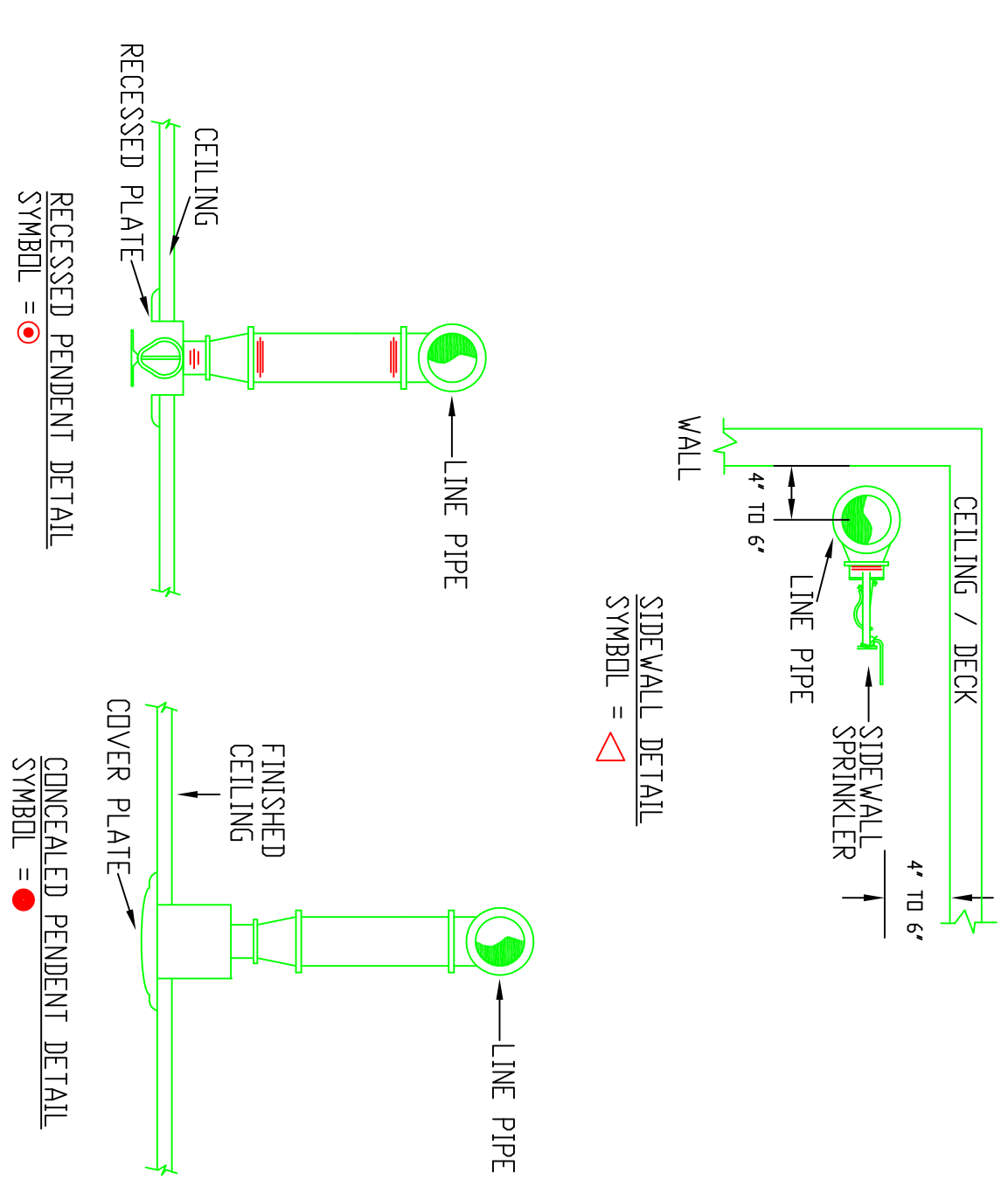
INSTALLED UNDER SMOOTH FLAT HORIZONTAL AND BEAMED CEILING UP TO 2/12 PITCH

MAXIMUM SPACING AREA FT. x FT.	MINIMUM SPACING FT.	MINIMUM FLOOR AND RESIDUAL PRESSURE PER SPRINKLER GPM @ PSI RATED AT 155°F
16 x 16	16	7.0 PSI
18 x 18	18	12.0 PSI
20 x 20	20	16.7 PSI

SPRINKLER HEAD SCHEDULE

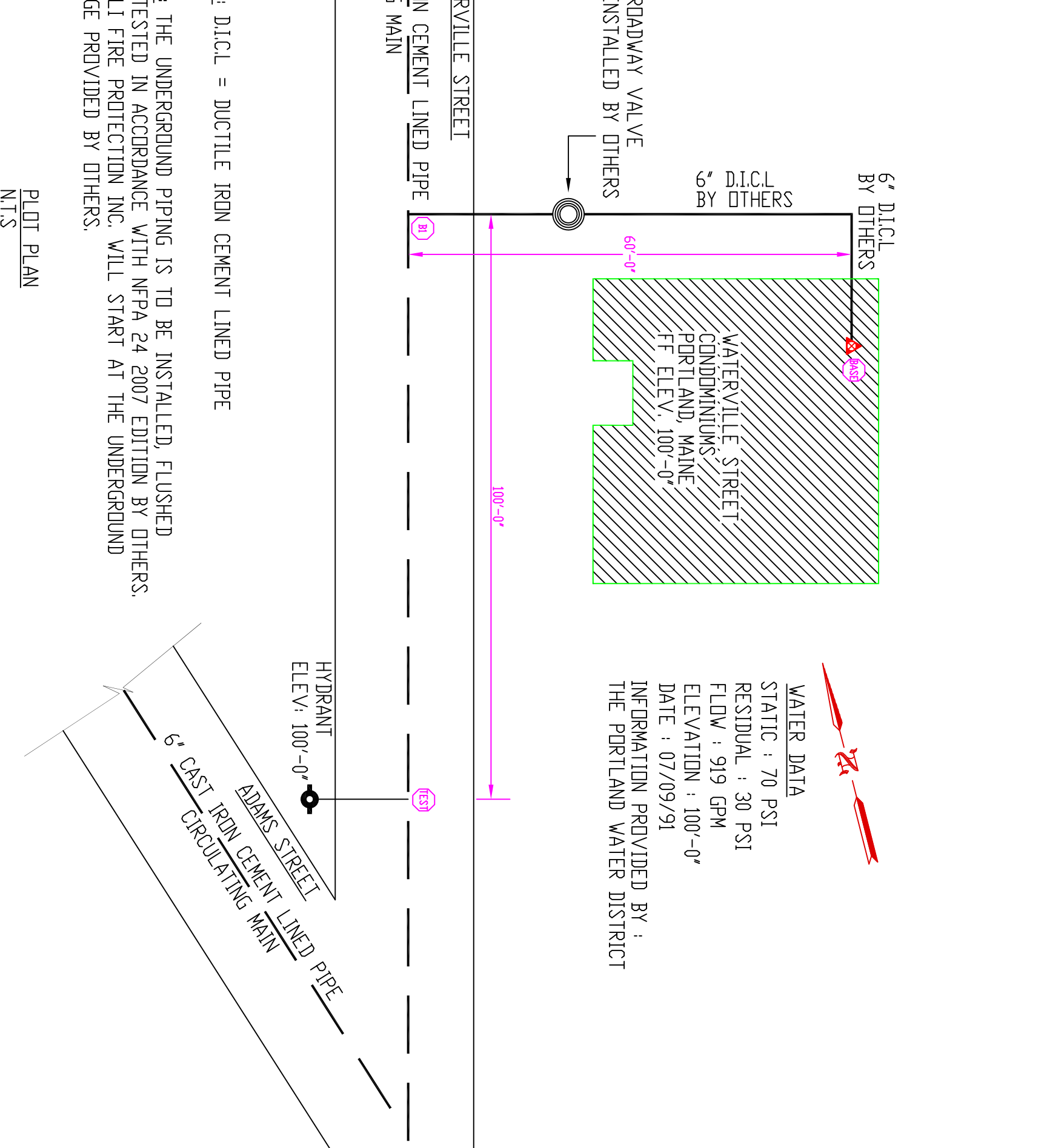
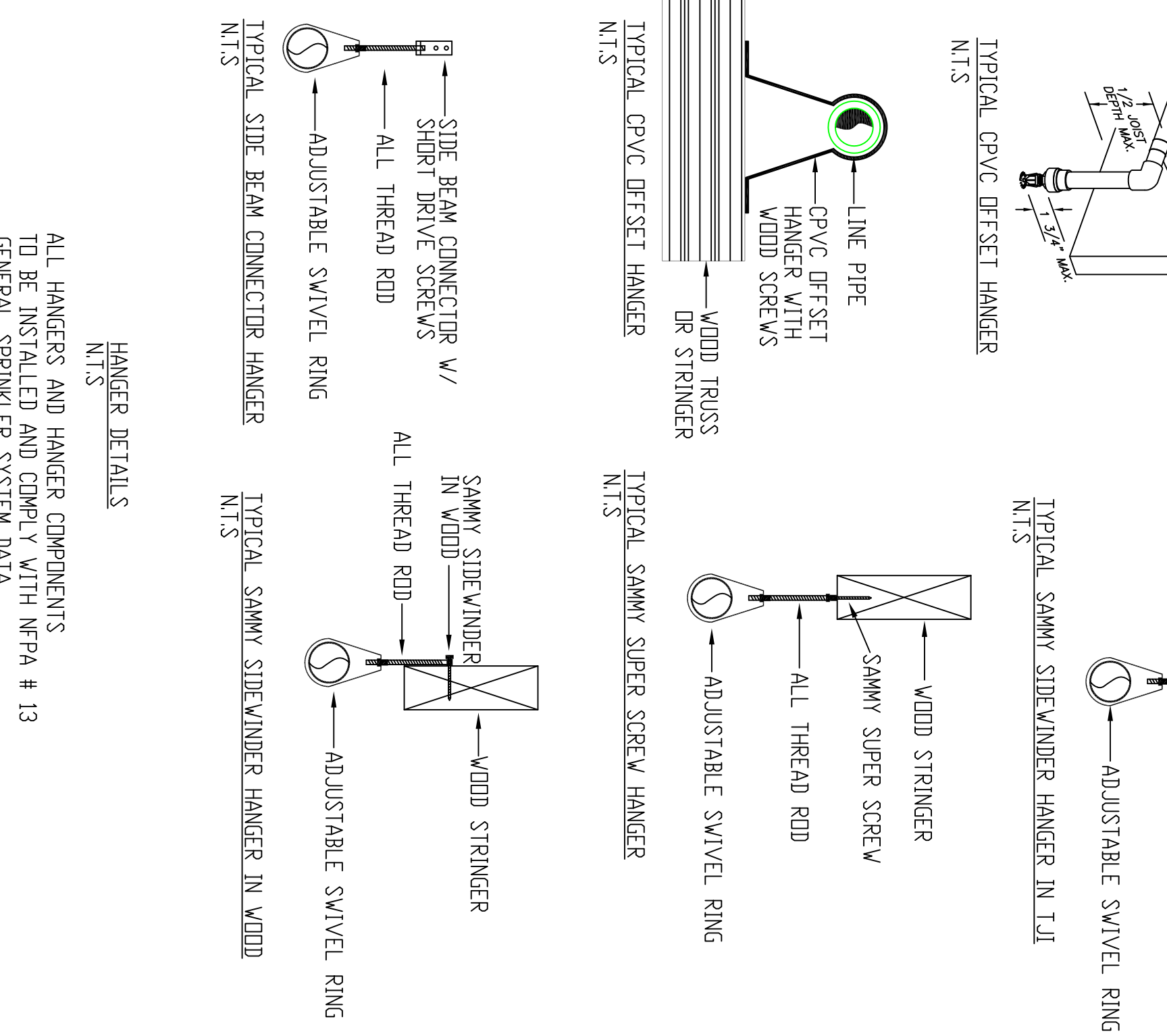
SPRINKLER TYPE	SYMBOL	TEMPERATURE RATING (°F)	NOMINAL ORIFICE SIZE	QUANTITY THIS DWG.	MANUFACTURER & MODEL
BRASS	○	155°	1/2"	21	VICTALIC V2704
CONCEALED PENDING	●	155°	7/16"	55	VICTALIC V2742
WHITE SIDEWALL	△	155°	1/2"	1	VICTALIC V2710

- GENERAL SPRINKLER SYSTEM DATA**
- BUILDING GENERAL CONTRACTOR: WRIGHT RYAN CONSTRUCTION
 - BUILDING ADDRESS: 29 WATERVILLE STREET PORTLAND, MAINE
 - CONSTRUCTION: WOOD STRUCTURE
 - AREA PROTECTED BY SPRINKLER SYSTEM: THE TOTAL AREA PROTECTED FOR THE SYSTEM IS 7040' SQ. FT.
 - MAXIMUM SPRINKLER HEAD SPACING: 16' x 16'
 - MAXIMUM SQUARE FOOTAGE PER SPRINKLER HEAD: 256 SQ. FT.
 - SPRINKLER SYSTEM DESIGNER: CKD
 - SPRINKLER DESIGN CHECKED BY: CKD NICEET LEVEL III CERT # 091641 RMS # 406
 - MAINE STATE CONTRACTORS LICENSE # 309



GENERAL NOTES:

- THE SPRINKLER SYSTEM INSTALLATION SHALL COMPLY WITH THE NFPA 13R STANDARD 2007 EDITION.
- EXPOSED SPRINKLER SYSTEM PIPING IS TO BE STEEL PIPE 1" TO 2" STEEL PIPE IS TO BE BEAR SCHEDULE 40 JOINED WITH THREADED MALEABLE IRON FITTINGS. 2" TO 4" BEAR SCHEDULE 40 JOINED WITH THREADED MALEABLE IRON FITTINGS. GOOD MECHANICAL COUPLINGS AND FITTINGS.
- DRY SYSTEM PIPING WILL BE STEEL GALVANIZED PIPING. CONCEALED WET SPRINKLER SYSTEM PIPING IS TO BE CPVC SPRINKLER SYSTEM PIPE JOINED WITH CPVC FITTINGS AND CPVC CEMENT.
- THE OWNER IS TO PROVIDE SUFFICIENT HEAT THROUGHOUT THE ENTIRE BUILDING TO PREVENT THE SPRINKLER SYSTEM PIPING AND COMPONENTS FROM FREEZING (MINIMUM 40°F) WITH THE EXCEPTION OF THE PARKING GARAGE WHICH WILL BE PROTECTED WITH A DRY SYSTEM.
- THE DRY SYSTEM SHALL BE PITCHED PER NFPA 13 SECTION 8.16.2.3.1 BRANCH LINES SHALL BE PITCHED AT LEAST 1/8" (ONCH) PER 10' (FEET) MAINS SHALL BE PITCHED AT LEAST 1/8" (ONCH) PER 10' (FEET)
- OCCUPANCY DESCRIPTION AND CLASSIFICATION:
 COMMON AREAS / LIGHT HAZARD
 DWELLING UNITS / RESIDENTIAL LIGHT HAZARD
 PARKING GARAGE / BROWARD HAZARD GROUP 1
 PIPE SUPPORTS
- A. ALL HANGERS MUST BE AN APPROVED TYPE BY NFPA 13. NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.
- B. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A METAL AND VIBRATION-LIKE MANNER. VERTICAL RISERS SHALL BE USE OF WIRE OR STRAP METAL HANGER TO SUPPORT PIPES WILL NOT BE PERMITTED. HANGING PIPES FROM OTHER PIPES WILL NOT BE PERMITTED. PIPING SHALL BE CAREFULLY COORDINATED BEFORE INSTALLATION WITH OTHER SYSTEMS AND EQUIPMENT IN CHASES AND MINIMUM DISTANCE BETWEEN PIPE SUPPORTS:
 * 12'-0" FOR 1 1/4" DIAMETER PIPE AND SMALLER
 * 15'-0" FOR 1 1/2" DIAMETER PIPE AND LARGER
- SCOPE OF WORK
- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK MATERIALS AND LABOR REQUIRED TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- B. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR *APPROVED EQUAL* BY THE ENGINEER OR ARCHITECT.
- PERMITS
- A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES ASSOCIATED WITH THE STATE FIRE MARSHALS OFFICE.
- TESTS
- A. ACCEPTANCE AND HYDROSTATIC TESTS TO BE PERFORMED IN ACCORDANCE WITH SECTION 6.3.2 OF THE NFPA 13R STANDARD



DENALI
 FIRE PROTECTION, INC.
 DESIGN INSTALLATION SERVICE
 78 ROLLER RINK ROAD
 OXFORD, MAINE 04270
 (207) 539-4266 FAX (207) 539-8544

1" = 1'-0"

General Notes

- All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.
- All Dimensions Shown are Center to Center.
- High Temperature Heads are to be Field Located Where Required.
- All Pipe and Hangers are to be Installed per NFPA #13.
- Hangers are to be UL Listed and P.M. Approved.

Symbol	Description	Number of Sprinklers	
		Total This Sheet	Total This Job
○	Hydraulic Reference Points		
●	Row Below Top of Steel		
△	Row Above Finished Floor		
+	Row of Top of Steel		
○	Center Height		
○	Indicates Hanger Location		
	Row up or down		

Printing Title: PFP-1 DETAILS

Contract No: B20-10

Drawn By: QJD

Scale: AS NOTED

Date: 07/29/10

Approval By: SPW/PPD

Job: 29 WATERVILLE STREET
 29 WATERVILLE STREET
 PORTLAND, MAINE

Contractor: DENALI FIRE PROTECTION, INC.
 78 ROLLER RINK ROAD
 OXFORD, MAINE 04270