

FIRE SUPPRESSION EQUIPMENT	
SPRINKLER HEAD - RECESSED PENDENT :	TYCO MODEL TY-FRB (TY-323) QUICK RESPONSE RECESSED PENDENT SPRINKLER HEAD WITH STYLE 15 CHROME RECESSED ESCUTCHEON . SPRINKLER HEAD TO BE CHROME, RATED FOR 155°F, 1/2" NOMINAL ORIFICE AND A K FACTOR OF 5.6 . THE TEMPERATURE RATING SHOWN IS NOMINAL, THE ACTUAL RATING TO BE SELECTED FOR THE APPLICATION OR AS NOTED. PROVIDE WITH MANUFACTURERS WRENCH.
SPRINKLER HEAD - EXPOSED PENDENT AND UPRIGHT:	TYCO MODEL TY-FRB (TY-323 FOR PENDANT AND TY-313 FOR UPRIGHT) QUICK RESPONSE UPRIGHT SPRINKLER HEAD WITH SPRINKLER HEAD TO BE NATURAL BRASS, RATED FOR 155°F, 1/2" NOMINAL ORIFICE AND A K FACTOR OF 5.6 . THE TEMPERATURE RATING SHOWN IS NOMINAL, THE ACTUAL RATING TO BE SELECTED FOR THE APPLICATION OR AS NOTED. INSTALL MANUFACTURERS SPRINKLER CAGE GUARD WHERE THE SPRINKLER HEAD IS WITH SEVEN FEET OF THE FLOOR . PROVIDE WITH MANUFACTURERS WRENCH.
SPRINKLER HEAD - CONCEALED EXTENDED COVERAGE (EC)	TYCO CORPORATION QUICK RESPONSE EXTENDED COVERAGE GLASS BULB ELEMENT SERIES RFI 'ROYAL FLUSH II' (TY3532) CONCEALED CEILING SPRINKLER HEAD, BRONZE FRAME AND BRONZE DEFLECTOR, CLASSIFIED FOR ORDINARY HAZARD WITH 155°F TEMPERATURE RATING, COVER PLATE FINISH TO BE SELECTED BY THE ARCHITECT. THE TEMPERATURE RATING SHOWN IS NOMINAL, THE ACTUAL RATING TO BE SELECTED FOR THE APPLICATION OR AS NOTED. PROVIDE MANUFACTURERS SPRINKLER WRENCH.
SPRINKLER HEAD - CONCEALED	TYCO CORPORATION STANDARD AND QUICK RESPONSE GLASS BULB ELEMENT SERIES RFI 'ROYAL FLUSH II' (TY3531) CONCEALED CEILING SPRINKLER HEAD, BRONZE FRAME AND BRONZE DEFLECTOR, CLASSIFIED FOR ORDINARY HAZARD WITH 155°F TEMPERATURE RATING, COVER PLATE FINISH TO BE SELECTED BY THE ARCHITECT. THE TEMPERATURE RATING SHOWN IS NOMINAL, THE ACTUAL RATING TO BE SELECTED FOR THE APPLICATION OR AS NOTED. PROVIDE MANUFACTURERS SPRINKLER WRENCH .
SPRINKLER HEAD - CONCEALED DRY-PENDANT (DP)	TYCO CORPORATION STANDARD AND QUICK RESPONSE GLASS BULB ELEMENT SERIES RFI 'ROYAL FLUSH II' DS-C (TY3535) DRY-PENDANT CONCEALED CEILING SPRINKLER HEAD, BRONZE FRAME AND BRONZE DEFLECTOR, CLASSIFIED FOR ORDINARY HAZARD WITH 155°F TEMPERATURE RATING, SELECT EXPOSURE LENGTH FOR THE APPLICATION. COVER PLATE FINISH TO BE SELECTED BY THE ARCHITECT. THE TEMPERATURE RATING SHOWN IS NOMINAL, THE ACTUAL RATING TO BE SELECTED FOR THE APPLICATION OR AS NOTED. PROVIDE MANUFACTURERS SPRINKLER WRENCH.
SPRINKLER HEAD - CONCEALED DRY-PENDANT (DPEC)	TYCO CORPORATION QUICK RESPONSE, EXTENDED COVERAGE GLASS BULB ELEMENT SERIES RFI 'ROYAL FLUSH II' DS-ECC (TY3539) DRY-PENDANT CONCEALED CEILING SPRINKLER HEAD, BRONZE FRAME AND BRONZE DEFLECTOR, CLASSIFIED FOR ORDINARY HAZARD WITH 155°F TEMPERATURE RATING, SELECT EXPOSURE LENGTH FOR THE APPLICATION. COVER PLATE FINISH TO BE SELECTED BY THE ARCHITECT. THE TEMPERATURE RATING SHOWN IS NOMINAL, THE ACTUAL RATING TO BE SELECTED FOR THE APPLICATION OR AS NOTED. PROVIDE MANUFACTURERS SPRINKLER WRENCH.
PRE-ACTION DOUBLE INTER-LOCK PACKAGE	TYCO FIRE PROTECTION PRODUCT MODEL DV-5 RED-E CABINET INTEGRATED PRE-ACTION FIRE PROTECTION PACKAGE. ASSEMBLY TO BE COMPLETELY SELF-CONTAINED WITHIN MANUFACTURERS CABINET. SIZING AND SELECTION OF THE PRE-ACTION SYSTEM IS CONSIDERED A FUNCTION OF THE DELEGATED DESIGN SUBMITTAL. REFER TO SPECIFICATION SECTION 21316 - 'DRY-PIPE SPRINKLER SYSTEMS'. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR FOR POWER AND ALARM REQUIREMENTS.
DOUBLE CHECK DETECTOR BACKFLOW PREVENTER: FBP-1	WATTS SERIES 709DCDA -OSY DOUBLE CHECK DETECTOR ASSEMBLY; EPOXY COATED CAST IRON WITH BRONZE SEATS AND BRONZE DISC HOLDER, STAINLESS STEEL TRIM, RUBBER CHECK VALVE DISCS AND BRONZE TEST COCKS. ULFM OUTSIDE SCREW AND YOKE RESILIENT SEATED GATE VALVES. 175 PSI MAXIMUM WORKING PRESSURE. COORDINATE METER SELECTION WITH LOCAL UTILITY. IF UTILITY DOES NOT REQUIRE METER, PROVIDE MANUFACTURERS GPM METER.
FIRE DEPARTMENT CONNECTION: FDC -1	ELKHART BRASS CO., INC. MODEL15-4W FREE STANDING INLET CONNECTION. 6.0 INCH NPT OUTLET WITH (4) 2.5 INCH NHT INLETS, SNOOT CLAPPER STYLE, ESCUTCHEON TO READ STANDPIPE AND AUTO SPKR. 4-WAY BODY TO BE ROUGH CHROME, WITH THE BALANCE OF PARTS POLISHED CHROME, ASSEMBLY TO BE COMPLETE WITH PLUGS AND CHAINS. COORDINATE EXACT LOCATION WITH THE ARCHITECT AND CIVIL ENGINEER PRIOR TO INSTALLATION. PROVIDE WITH TWO 4" ROUND STEEL PIPE CONCRETE BOLLARDS ON EITHER SIDE OF FDC. FDC TO SET IN POURED CONCRETE BASE FLUSH WITH GRADE.
FIRE HOSE VALVE : FHV	ELKHART BRASS INDUSTRIAL ANGLE VALVE MODEL UR-25-2.5 - CAST BRASS FINISH. INLET TO BE 2-1/2" WITH 2-1/2" MALE FIRE HOSE OUTLET. ASSEMBLY TO BE COMPLETE WITH CAP AND CHAIN. VALVE TO BE RATED FOR 300 PSI, UL LISTED AND FM APPROVED.
FIRE HOSE VALVE CABINET : FVC	LARSEN'S VALVE CABINET MODEL VCALL818-RT TRIM-LESS CABINET WITH ALUMINUM SOLID DOOR, INSIDE BOX DIMENSIONS 18"x18"x8" DEEP. CABINET TO HAVE INTERIOR CAPACITY TO HOSE ONE 2-1/2" FIRE DEPARTMENT VALVE WITH CAP AND CHAIN. VERIFY AND COORDINATE PLACEMENT AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
FIRE PUMP TEST HEADER : FPH-1	ELKHART BRASS CO., INC. MODEL 784-P FLUSH 4-WAY OUTLET BUILDING CONNECTION. 6.0 INCH NPT OUTLET WITH (4) 2.5 INCH NHT INLETS, INDIVIDUAL DROP CLAPPER. ESCUTCHEON TO READ PUMP TEST CONNECTION. ASSEMBLY TO BE POLISHED CHROME COMPLETE WITH PLUGS AND CHAINS. COORDINATE LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
FIRE PUMP : FP-1	REFER TO SPECIFICATION SECTION 213113 - 'ELECTRICAL-DRIVE, CENTRIFUGAL FIRE PUMPS'. SIZING AND SELECTION OF THE FIRE PUMP IS CONSIDERED A FUNCTION OF THE DELEGATED DESIGN SUBMITTAL. THE FIRE PUMP AND THE FIRE PUMP CONTROLLER ARE TO BE DESIGNED AND PURCHASED TOGETHER, AND OPERATE AS A COMPLETE PACKAGE. REFER TO SPECIFICATION SECTION 213900 - 'CONTROLLERS FOR FIRE-PUMP DRIVERS'.
PRESSURE MAINTENANCE PUMP : JP-1	REFER TO SPECIFICATION SECTION 213400 - 'PRESSURE MAINTENANCE PUMPS'. SIZING AND SELECTION OF THE PRESSURE MAINTENANCE PUMP IS CONSIDERED A FUNCTION OF THE DELEGATED DESIGN SUBMITTAL. THE PRESSURE MAINTENANCE PUMP AND THE PUMP CONTROLLER ARE TO BE DESIGNED AND PURCHASED TOGETHER, AND OPERATE AS A COMPLETE PACKAGE. REFER TO SPECIFICATION SECTION 213900 - 'CONTROLLERS FOR FIRE-PUMP DRIVERS'.
CONTRACTOR NOTES:	
1. MANUFACTURER AND MODEL NUMBERS LISTED ARE BASIS OF DESIGN. EQUIPMENT AND COMPONENTS OF COMPARABLE QUALITY, DESIGN AND FUNCTION MAY BE CONSIDERED AS AN APPROVED EQUAL, IN ACCORDANCE WITH THE SPECIFICATIONS.	
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROUGH-IN AND INSTALLATION REQUIREMENTS.	
3. ALL PRODUCT SHALL BE FM APPROVED AND UL LISTED. VERIFY EXACT REQUIREMENTS PRIOR TO ORDERING, ROUGH-IN AND INSTALLATION.	
4. REFER TO THE PROJECT MANUAL DIVISION 21 FOR ADDITIONAL REQUIREMENTS, DETAILS, ITEMS AND COMPONENTS AS PART OF THIS SCOPE.	

FIRE SERVICE BACKFLOW PREVENTER SCHEDULE													
PLAN MARK	MANUFACTURER	SERIES	MODEL NUMBER	LOCATION	USE	TYPE/STYLE	SIZE	SHUT-OFF/SERVICE VALVES	MAXIMUM WORKING PRESSURE, PSI	WATER PIPING CONNECTIONS, INCHES		SHIPPING WEIGHT, LBS.	REMARKS
										INLET	OUTLET		
FBP-1	WATTS REGULATOR	709	709-OSY	FIRE PUMP RM.	FIRE SERVICE	DCVA	8"	OS&V	175	FLANGED	FLANGED	1201	NOTE 1
NOTES: 1. SET ON FIELD OR SHOP FABRICATED STEEL SUPPORT RACK, SECURED TO FLOOR.													



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SCHEDULES - FIRE PROTECTION

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