

ROOM #	ROOM NAME	OCCUPANCY CLASSIFICATION	SYSTEM TYPE
A1	CORRIDOR	LIGHT HAZARD	WET
A2	CORRIDOR	LIGHT HAZARD	WET
A3	CORRIDOR	LIGHT HAZARD	WET
A4	CORRIDOR	LIGHT HAZARD	WET
A5	CORRIDOR	LIGHT HAZARD	WET
A6	PASSAGE	LIGHT HAZARD	WET
7	CORRIDOR	LIGHT HAZARD	WET
A100	VEST	LIGHT HAZARD	WET
A101	REC	LIGHT HAZARD	WET
A101A	WAITING AREA	LIGHT HAZARD	WET
A102	CONF A	LIGHT HAZARD	WET
A103	CONF B	LIGHT HAZARD	WET
A104	LOSI & FND	LIGHT HAZARD	WET
A105	CLOSET	LIGHT HAZARD	WET
A106	GM	LIGHT HAZARD	WET
A107	AL GM	LIGHT HAZARD	WET
A108	HR	LIGHT HAZARD	WET
A109	FINANCE	LIGHT HAZARD	WET
A110	PAYROLL	LIGHT HAZARD	WET
A111	PLANNING	LIGHT HAZARD	WET
A112	WORKSTATIONS	LIGHT HAZARD	WET
A113	IDPHOTO	LIGHT HAZARD	WET
A114	MARKETING	LIGHT HAZARD	WET
A115	TRAIN, OFF. & STORAGE	ORDINARY HAZARD GROUP 1	WET
A116	UNISEX TOILET	LIGHT HAZARD	WET
A117	UNISEX TOILET	LIGHT HAZARD	WET
A118	OPS TRAINING RM	LIGHT HAZARD	WET
A119	MAINT TRAINING RM	LIGHT HAZARD	WET
A120	MOBILITY CENTER	LIGHT HAZARD	WET
A121	MOBILITY OFF	LIGHT HAZARD	WET
A122	FLEX	LIGHT HAZARD	WET
A123	STORAGE	ORDINARY HAZARD GROUP 1	WET
A124	SUPER	LIGHT HAZARD	WET
A125	WORK AREA	LIGHT HAZARD	WET
A126	IT OFFICE	LIGHT HAZARD	WET
A127	IT	LIGHT HAZARD	WET
A128	OPS SUPER	LIGHT HAZARD	WET
A129	SUPER	LIGHT HAZARD	WET
A130	SECURITY	LIGHT HAZARD	WET
A131	VEST	LIGHT HAZARD	WET
A132	M TOIL	LIGHT HAZARD	WET
A132A	VEST	LIGHT HAZARD	WET
A132B	SHWR	LIGHT HAZARD	WET
A133	W TOIL	LIGHT HAZARD	WET
A133A	VEST	LIGHT HAZARD	WET
A133B	SHWR	LIGHT HAZARD	WET
A134	CUSTODIAL	ORDINARY HAZARD GROUP 1	WET
A135	FILE STOR	ORDINARY HAZARD GROUP 1	WET
A136	PARATRANSPORT DISPATCH	LIGHT HAZARD	WET
A137	FIXED ROUTE DISPATCH	LIGHT HAZARD	WET
A138	READY ROOM	LIGHT HAZARD	WET
A139	PAINTRY/BREAK RM	LIGHT HAZARD	WET
A140	LOCKERS	LIGHT HAZARD	WET
A141	VEST	LIGHT HAZARD	WET
A142	EXERCISE	LIGHT HAZARD	WET
M1	CHASSIS WASH	ORDINARY HAZARD GROUP 1	WET
M2	HVAC BAY	ORDINARY HAZARD GROUP 1	WET
M3	TIRE BAY	ORDINARY HAZARD GROUP 1	WET
M4	FLUIDS	ORDINARY HAZARD GROUP 1	WET
M5	REPAIR BAY	ORDINARY HAZARD GROUP 1	WET
M6	REPAIR BAY	ORDINARY HAZARD GROUP 1	WET
M7	REPAIR BAY	ORDINARY HAZARD GROUP 1	WET
M8	INSPECTION BAY	ORDINARY HAZARD GROUP 1	WET
M9	COMMON AISLE	ORDINARY HAZARD GROUP 1	WET
M10	CORRIDOR	LIGHT HAZARD	WET
M11	CORRIDOR	LIGHT HAZARD	WET
M12	CORRIDOR	LIGHT HAZARD	WET
M12A	PASSAGE	LIGHT HAZARD	WET
M13	CORR	LIGHT HAZARD	WET
M14	CORRIDOR	ORDINARY HAZARD GROUP 1	WET
M100	SPEC. TOOLS	ORDINARY HAZARD GROUP 1	WET
M101	TOOL STORAGE 1	ORDINARY HAZARD GROUP 1	WET
M102	TOOL STORAGE 2	ORDINARY HAZARD GROUP 1	WET
M103	TOOL STORAGE 3	ORDINARY HAZARD GROUP 1	WET
M104	M TOIL	LIGHT HAZARD	WET
M104A	MENS LOCKER/SHOWER RM	LIGHT HAZARD	WET
M105	W TOIL	LIGHT HAZARD	WET
M105A	WOMENS LOCKER/SHOWER RM	LIGHT HAZARD	WET
M106	CUSTODIAL	ORDINARY HAZARD GROUP 1	WET
M107	MAINTENANCE BREAK ROOM	LIGHT HAZARD	WET
M108	LIBRARY	LIGHT HAZARD	WET
M109	CONSULTATION	LIGHT HAZARD	WET
M110	SUPERINTENDENT	LIGHT HAZARD	WET
M111	WORKSTATIONS (J)	LIGHT HAZARD	WET
M112	FARE BOX REPAIR	LIGHT HAZARD	WET
M113	COMMON WORK AREA	ORDINARY HAZARD GROUP 1	WET
M113A	USED OIL	ORDINARY HAZARD GROUP 1	WET
M114	RECYCLING	ORDINARY HAZARD GROUP 1	WET
M115	LAUNDRY	ORDINARY HAZARD GROUP 1	WET
M116	MECH. RM	ORDINARY HAZARD GROUP 1	WET
M117	ELEC. RM	ORDINARY HAZARD GROUP 1	WET
M118	LUBE ROOM	ORDINARY HAZARD GROUP 1	WET
M119	PORTABLE ELEC. STOR.	ORDINARY HAZARD GROUP 1	WET
M120	FOUNDATIONS	ORDINARY HAZARD GROUP 1	WET
M121	BATTERY	ORDINARY HAZARD GROUP 1	WET
M122	RECEIVING	EXTRA HAZARD GROUP 2	WET
M123	PARTS STORAGE	EXTRA HAZARD GROUP 2	WET
M123A	PARTS ST. ELEC.	LIGHT HAZARD	WET
M124	TIRE STORAGE	RUBBER TIRE STORAGE	WET
M125	FARE COLLECTION & VAULT	LIGHT HAZARD	WET
M126	SERVICE CONTROL	LIGHT HAZARD	WET
M127	SERVICE STORAGE	ORDINARY HAZARD GROUP 1	WET
M128	VACUUM	ORDINARY HAZARD GROUP 1	WET
M128A	WORK AREA	ORDINARY HAZARD GROUP 1	WET
M129	IT WIRING ROOM	LIGHT HAZARD	WET
M130	CUSTODIAL	ORDINARY HAZARD GROUP 1	WET
M131	TOILET	LIGHT HAZARD	WET
M132	PASSAGE	ORDINARY HAZARD GROUP 1	WET
M133	COMPRESSOR ROOM	ORDINARY HAZARD GROUP 1	WET
M134	MECH. RM	ORDINARY HAZARD GROUP 1	WET
M135	WATER RECYCLING	ORDINARY HAZARD GROUP 1	WET
M135A	FIRE PUMP ROOM	ORDINARY HAZARD GROUP 1	WET
S1	SERVICE LANE	EXTRA HAZARD GROUP 2	WET
S1A	LAISSE	EXTRA HAZARD GROUP 2	WET
S2	WASH LANE	ORDINARY HAZARD GROUP 1	WET
S2A	LAISSE	ORDINARY HAZARD GROUP 1	WET

### FIRE PROTECTION ABBREVIATIONS

AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
EC	ELECTRICAL CONTRACTOR
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FP	FIRE PUMP
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW

### FIRE PROTECTION SYMBOLS - PIPING DESIGNATIONS

	FIRE PROTECTION PIPING (ABOVE GRADE)
	FIRE PROTECTION STANDPIPE PIPING
	FIRE PROTECTION PIPING (BELOW GRADE)
	EXISTING FIRE PROTECTION PIPING
	FIRE PROTECTION DEMOLITION PIPING

### FIRE PROTECTION SYMBOLS - VALVES AND SPECIALTIES

	SHUT-OFF VALVE (GATE, BALL, ETC.)
	BALANCING VALVE (X INDICATES GPM)
	TWO-WAY AUTOMATIC CONTROL VALVE
	THREE-WAY AUTOMATIC CONTROL VALVE
	CHECK VALVE
	STRAINER
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	LOCKING VALVE
	TRIPLE DUTY VALVE
	BRANCH CONNECTION - BOTTOM
	BRANCH CONNECTION - TOP
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	CAP
	DIRECTION OF FLOW
	UPRIGHT SPRINKLER HEAD
	DRY UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	DRY PENDENT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	DRY CONCEALED SPRINKLER HEAD
	SIDE WALL SPRINKLER HEAD
	DRY TYPE SIDE WALL SPRINKLER HEAD
	SPRINKLER HEAD EXISTING TO REMAIN
	SPRINKLER HEAD TO BE REMOVED
	FLOW SWITCH
	BACKFLOW PREVENTER (BFP)
	FIRE DEPARTMENT CONNECTION
	FIRE HOSE CABINET
	OS&Y VALVE
	POINT OF CONNECTION
	POINT OF DISCONNECTION

### GENERAL NOTES

- THIS LEGEND SHEET IS FOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
- THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
- DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
- INSTALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
- ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF FIRE PROTECTION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF SURFACES SHALL MATCH THE ADJACENT MATERIALS.
- PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
- ALL PIPE SIZES SHOWN ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS.
- ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
- COMPLY WITH THE 2009 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC) WITH CITY OF LYNCHBURG AMENDMENTS, NFPA 13 AND OTHER APPLICABLE CODES.
- COORDINATE CONNECTION OF SUPERVISORY SWITCHES, FLOW SWITCHES, AND OTHER SIMILAR DEVICES TO THE FIRE ALARM SYSTEM.
- COORDINATE LOCATION OF SPRINKLER HEADS WITH THE REFLECTED CEILING PLAN.

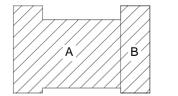


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### KEY PLAN

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Revised: \_\_\_\_\_  
Drawn: \_\_\_\_\_  
Checked: \_\_\_\_\_  
Date: \_\_\_\_\_

### FIRE PROTECTION SYMBOLS, NOTES AND ABBREVIATIONS

DATE: 09/24/2014  
SCALE: AS NOTED  
DWG. NO.: 444505  
DWG. TITLE: \_\_\_\_\_

DWG. NO.: FP001



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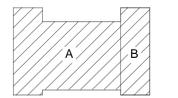
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TRUE 0

NOTES:  
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2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.  
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.  
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

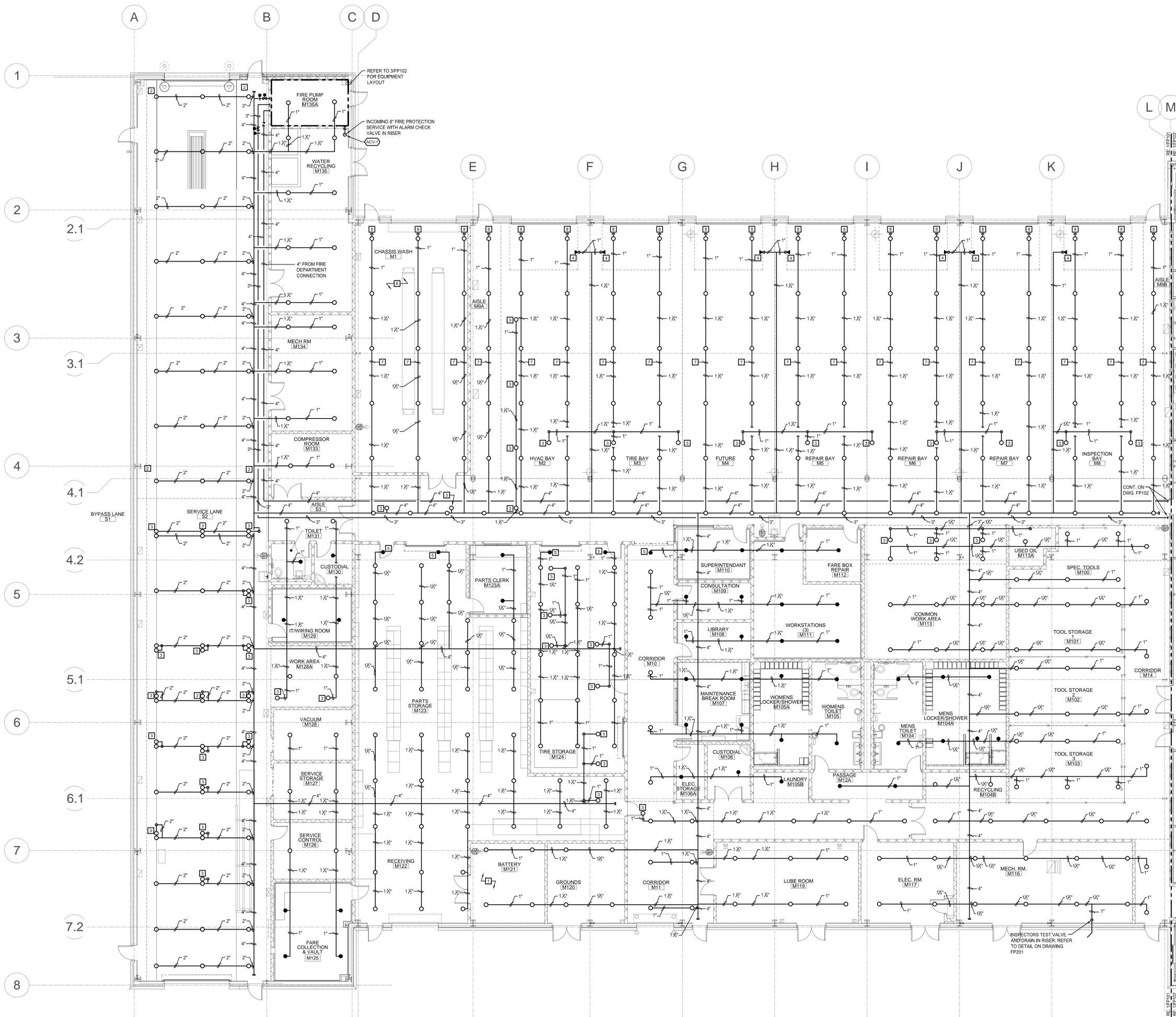


DATE: 09/24/2014  
SCALE: AS NOTED  
DWG. NO.: CBC  
PROJECT NO.: 444005

FIRE PROTECTION  
PARTIAL FIRST FLOOR PLAN  
AREA A

DATE: 09/24/2014  
SCALE: AS NOTED  
DWG. NO.: CBC  
PROJECT NO.: 444005

FP101



1 PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA A  
SCALE: 1/8" = 1'-0"

- CONSTRUCTION NOTES:**
- SPRINKLER HEADS LOCATED IN BATTERY ROOM SHALL BE A NON-CORROSIVE TYPE WITH A WAX COATING.
  - ALL PIPING LOCATED IN THE WASH BAY AREA BETWEEN COLUMN LINE 1 AND COLUMN LINE 4 SHALL BE SCHEDULE 40 GALVANIZED STEEL. ALL SPRINKLER HEADS IN THIS AREA SHALL BE BRASS.
  - LOCATE SPRINKLER HEAD TIGHT TO UNDERSIDE OF DUCT. PROVIDE PIPING AND OFFSET AS REQUIRED TO EXTEND DOWN BELOW DUCT. COORDINATE WITH HVAC COORDINATION DRAWINGS FOR FINAL DUCT SIZE AND LOCATION. SPRINKLER SYSTEM SHALL PROVIDE THE MINIMUM DENSITY PER CLASSIFICATION AREA AS INDICATED ON DRAWING FP001.
  - PROVIDE AN EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD WITH A MINIMUM THROW OF 16 FEET. INSTALL HEAD 4 INCHES BELOW GARAGE DOOR TRACK TO PROVIDE COVERAGE BELOW DOOR.
  - PENDENT HEAD LOCATED IN SOFFIT BELOW. ROUTE PIPING TIGHT TO WALL AND CONCEALED WHERE POSSIBLE DOWN TO SOFFIT AS REQUIRED.
  - ALL PIPING LOCATED IN THE CHASSIS WASH BAY AREA SHALL BE SCHEDULE 40 GALVANIZED STEEL. ALL SPRINKLER HEADS IN THIS AREA SHALL BE BRASS.
  - PIPING SHALL BE ROUTED PARALLEL TO THE ROOF AND FOLLOW THE DOWNWARD PITCH.
  - PROVIDE BALL VALVE WITH HOSE CONNECTION AT BOTTOM OF BRANCH LINE TO ALLOW THE SYSTEM TO BE DRAINED.



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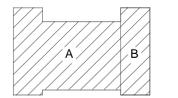
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KEY PLAN

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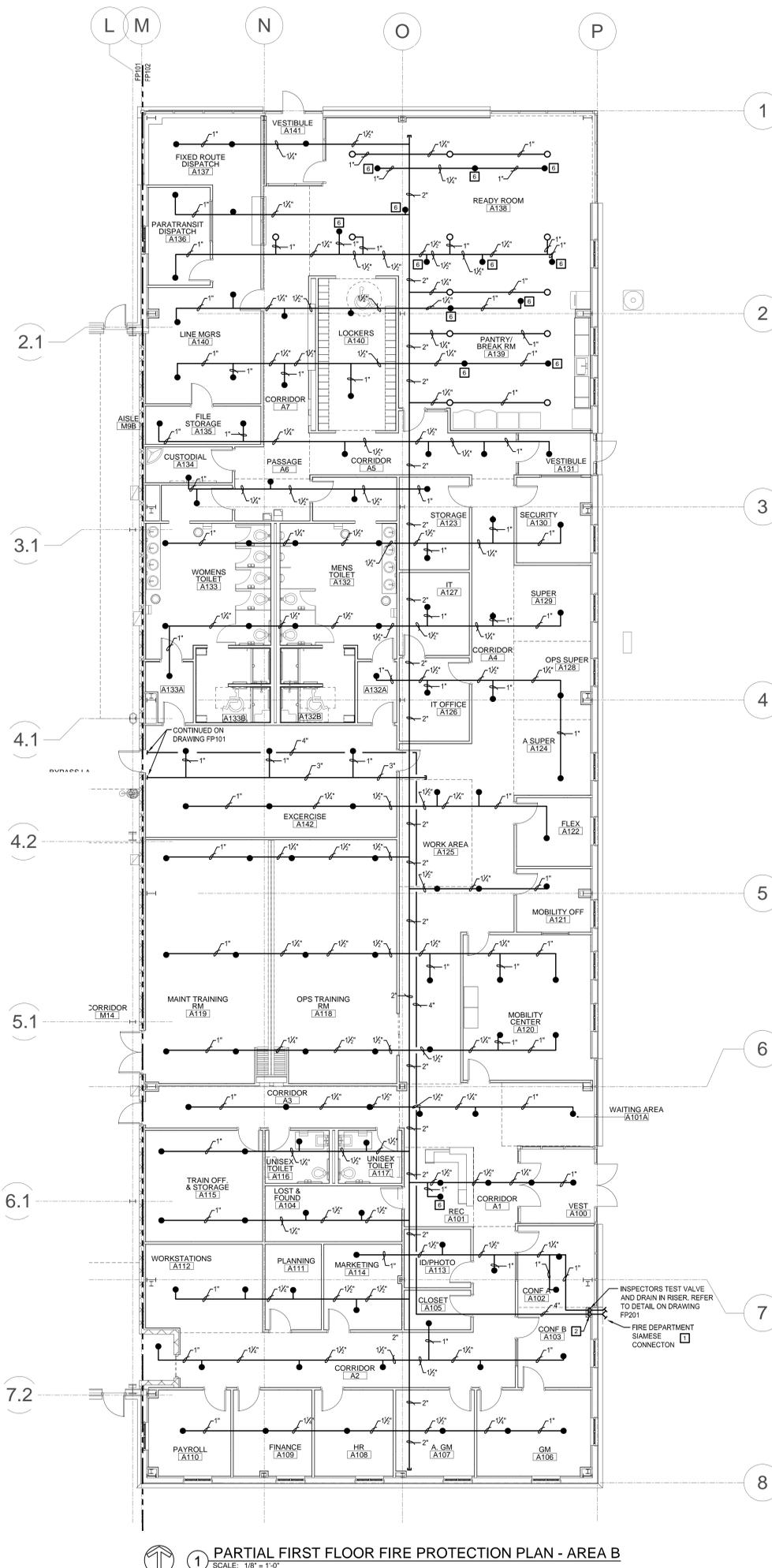
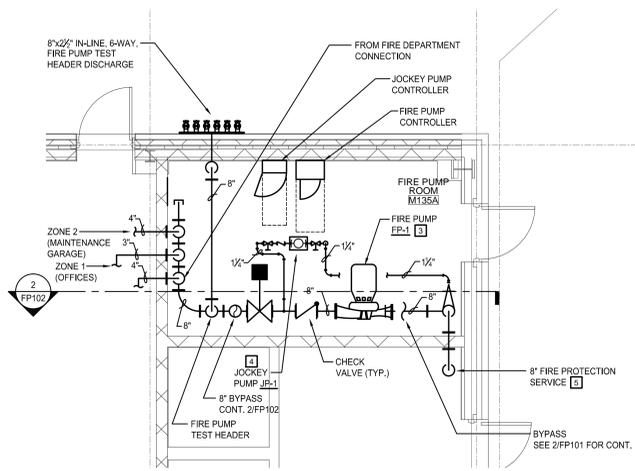
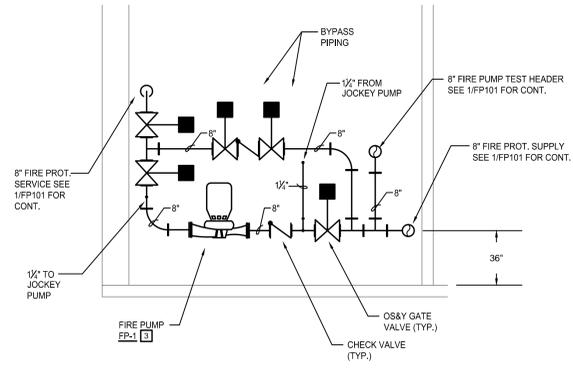
Revised: \_\_\_\_\_  
Date: \_\_\_\_\_  
Scale: \_\_\_\_\_  
DWG. TITLE: \_\_\_\_\_

FIRE PROTECTION  
PARTIAL FIRST FLOOR PLAN  
AREA B

DATE: 09/24/2014  
SCALE: AS NOTED  
DWG: CBC  
DWG. NO.: 444505

444505

FP102



- CONSTRUCTION NOTES:
1. FLUSH MOUNTED FIRE DEPARTMENT SIAMESE CONNECTION. REFER TO DETAIL ON DRAWING FP201.
  2. ROUTE FIRE DEPARTMENT CONNECTION PIPING INTO BUILDING AND UP IN CHASE AS SHOWN TO ABOVE CEILING. ROUTE INSPECTORS TEST DRAIN PIPING IN SAME CHASE AND PROVIDE AN ACCESS PANEL WITH INSPECTORS TEST VALVE AND DRAIN LOCATED DIRECTLY BEHIND IT. REFER TO DETAIL ON FP201.
  3. PROVIDE INLINE FIRE PUMP WITH THE CENTERLINE OF THE INLET AND OUTLET LOCATED 36" ABOVE FINISHED FLOOR. REFER TO SCHEDULE ON DRAWING FP201 FOR ADDITIONAL INFORMATION.
  4. PROVIDE JOCKEY PUMP WITH THE CENTERLINE OF THE INLET AND OUTLET LOCATED 36" ABOVE FINISHED FLOOR. REFER TO SCHEDULE ON DRAWING FP201 FOR ADDITIONAL INFORMATION.
  5. PROVIDE ALARM CHECK VALVE IN FIRE PROTECTION SERVICE RISER. REFER TO DETAIL ON DRAWING FP201.
  6. PROVIDE PENDENT SPRINKLER HEAD IN SUSPENDED CLOUD CEILING BELOW. PROVIDE PIPING AND SUPPORTS AS REQUIRED TO SUSPEND HEAD AT A LOWER ELEVATION.

DATE PLOTTED: 09/24/2014 10:41:11 AM



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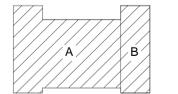
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TRUE TO SCALE  
KEY PLAN

NOTE:  
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Revision: \_\_\_\_\_  
Date: \_\_\_\_\_  
Scale: \_\_\_\_\_  
Title: \_\_\_\_\_

FIRE PROTECTION  
DETAILS AND SCHEDULES

DATE: 09/24/2014  
SCALE: AS NOTED  
DRAWN: CBC  
CHECK: CRL  
PROJECT NO: 444205  
SHEET NO:

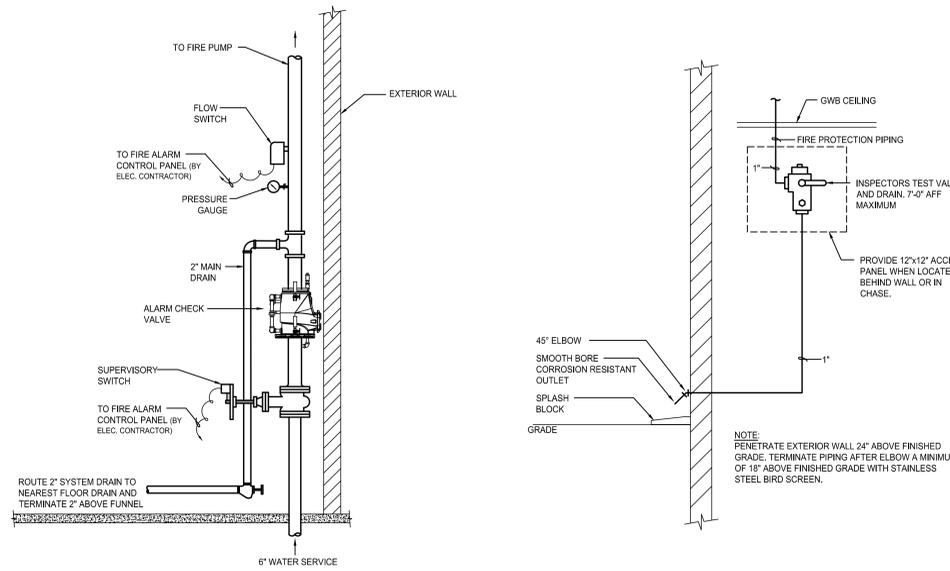
FP201

FIRE PUMP SCHEDULE													
PLAN DESIGNATION	MANUFACTURER MODEL NO.	PUMP DRIVER	LOCATION	DESCRIPTION	ARRANGEMENT	SERVICE	FLOW RATE (GPM)	PRESSURE (PSI)	ROTATION	ELECTRICAL DATA			NOTES
										MOTOR HP	MOTOR RPM	VOLTS/ PHASE	
FP-1	AC FIRE PUMPS MODEL 1580-8x8x13.5F	ELECTRIC MOTOR DRIVEN	FIRE PUMP ROOM M135A	FIRE PUMP	VERTICAL INLINE	SPRINKLER SYSTEM	1500	70	CLOCKWISE	100	1775	460/3	1
JP-1	AC FIRE PUMPS 3SV6FC4F20	ELECTRIC MOTOR DRIVEN	FIRE PUMP ROOM M135A	JOCKEY PUMP	VERTICAL	SPRINKLER SYSTEM	15	78	CLOCKWISE	1	3500	460/3	2

NOTES:  
1. PROVIDE INTEGRAL DISCONNECT, FIRE PUMP CONTROLLER WITH FULL SERVICE-SOFT START AND AUTOMATIC TRANSFER SWITCH. EATON MODEL FT-90 OR APPROVED EQUAL.  
2. PROVIDE ACROSS THE LINE JOCKEY PUMP CONTROLLER WITH RUNNING PERIOD TIMER, INTEGRAL 120V TRANSFORMER, DUAL SETTING PRESSURE SWITCH AND DISCONNECT SWITCH WITH SAFETY DOOR INTERLOCK. EATON XTJP SERIES OR APPROVED EQUAL.

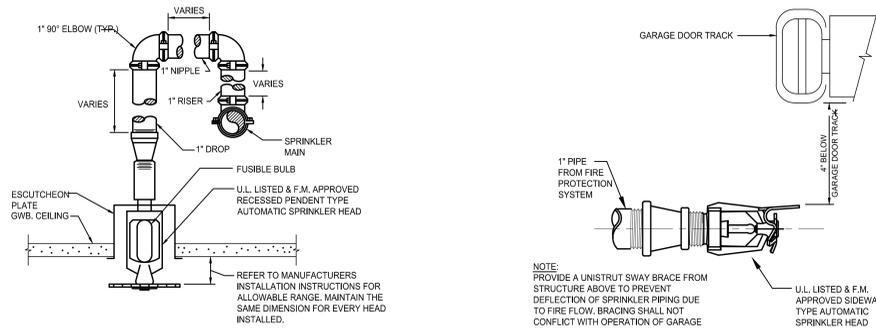
FIRE PROTECTION EQUIPMENT SCHEDULE				
PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	DESCRIPTION	NOTES
ACV-1	VIKING MODEL J-1	WATER RECYCLING ROOM M135	ALARM CHECK VALVE WITH VERTICAL TRIM	1

NOTES:  
1. PROVIDE 8" VALVE WITH BRASS TRIM.



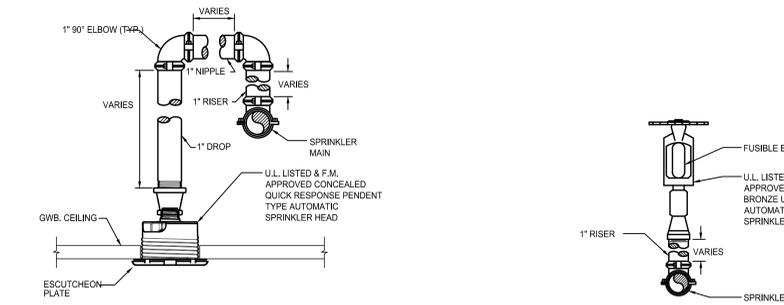
1 TYPICAL ALARM CHECK WATER SERVICE DETAIL  
SCALE: NOT TO SCALE

2 INSPECTOR'S TEST DRAIN DETAIL  
SCALE: NOT TO SCALE



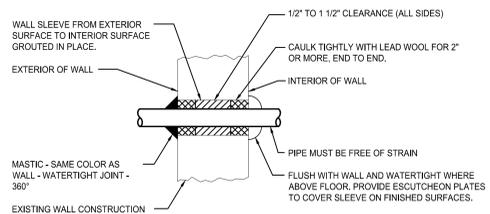
3 TYPICAL SEMI-RECESSED PENDENT SPRINKLER RISER DETAIL  
SCALE: NOT TO SCALE

4 TYPICAL SIDEWALL SPRINKLER PROTECTION BELOW GARAGE DOOR DETAIL  
SCALE: NOT TO SCALE

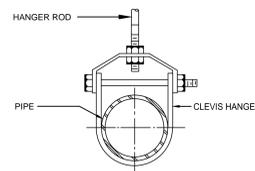


5 TYPICAL CONCEALED PENDENT SPRINKLER RISER DETAIL  
SCALE: NOT TO SCALE

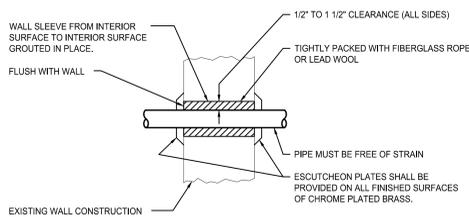
6 TYPICAL UPRIGHT SPRINKLER RISER DETAIL  
SCALE: NOT TO SCALE



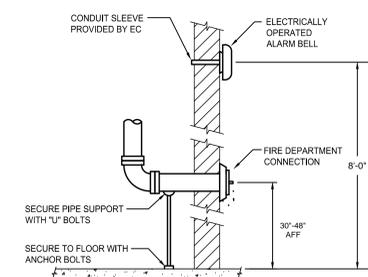
7 PIPE SLEEVE THROUGH EXTERIOR WALL-ABOVE GRADE  
SCALE: NOT TO SCALE



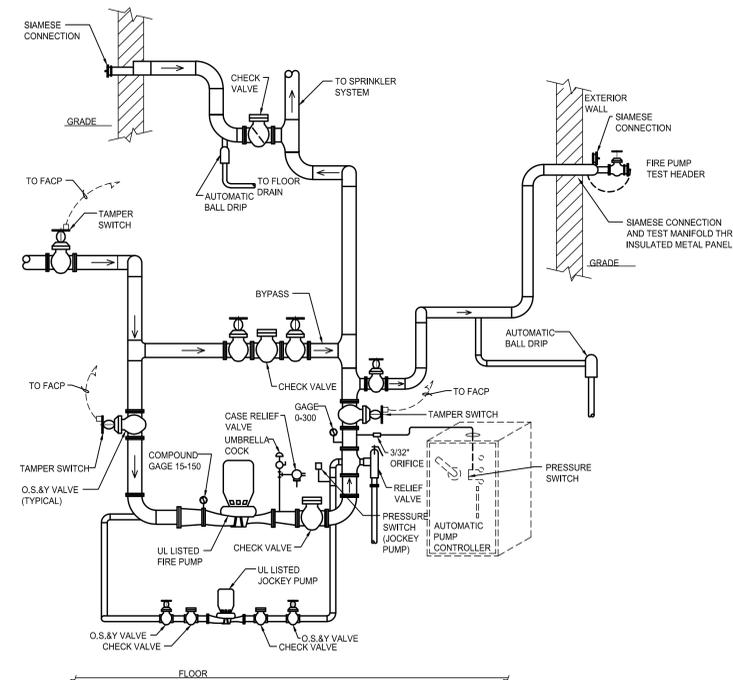
9 TYPICAL PIPE SUPPORT DETAIL  
SCALE: NOT TO SCALE



8 PIPE SLEEVE THROUGH INTERIOR WALL-ABOVE GRADE  
SCALE: NOT TO SCALE



10 FIRE DEPARTMENT CONNECTION DETAIL  
SCALE: NOT TO SCALE



11 FIRE & JOCKEY PUMP PIPING SCHEMATIC  
SCALE: NOT TO SCALE