DATE 09/12/2024

COBURN AND ASSOCIATES

CA JOB NUMBER 2390

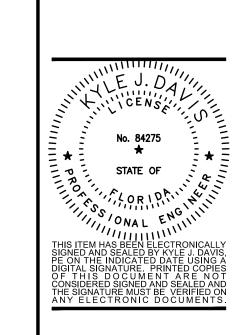
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2338 FP001

FIRE PROTECTION COMPLIANCE NOTES	FIRE SPRINKLER LEGEND	FIRE PROTECTION SYMBO	DL LEGEND	FIRE PROT	ECTION ABBREVIATIONS
BUILDING DESIGN:	SYMBOL ORF TEMP RESPONSE K-FACTOR FINISH MODEL STYLE PLATE MFG.	SYMBOL	DESCRIPTION	SYMBOL DESCRIPTION	SYMBOL DESCRIPTION
3365 SQUARE FOOT SINGLE STORY FIRE DEPARTMENT ADMINISTRATION BUILDING WITH DORMITORIES, A DAY ROOM, BREAK ROOM, OFFICE SPACE. AND STORAGE.	1/2" 155° QUICK 5.62 CHROME F1FR CONCEALED WHITE RELIABLE 1/2" 155° QUICK 5.5 CHROME F4FR CONCEALED WHITE RELIABLE		-OS&Y VALVE	AHJ — AUTHORITY HAVING JURISDICTION ANSI — AMERICAN NATIONAL STANDARDS	GPM —GALLONS PER MINUTE INSTITUTE KW —KILOWATT
SCOPE OF WORK:	□ 1/2" 155° QUICK 5.6 WHITE WS PENDANT WHITE TYCO □ 1/2" 155° QUICK 5.62 BRASS F1FR UPRIGHT NONE RELIABLE □ 1/2" 155° QUICK 5.62 BRASS F1FR UPRIGHT HD/GD RELIABLE		-GATE VALVE	ASTM — AMERICAN STANDARDS TESTING M DIA (Ø) — DIAMETER	INT INLOWATE
PROVIDE A FULLY AUTOMATIC WET SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 (2019). ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE. SPRINKLER CONTRACTOR SHALL USE EXTRAPOLATED FLOW DATA WHEN PERFORMING HYDRAULIC CALCULATIONS. THE POINT OF SERVICE AND WATER SUPPLY FOR THE FIRE SUPPRESSION SYSTEM OF THIS BUILDING SHALL BE SUPPLIED BY THE SITE FIRE	1/2" 155° QUICK 5.62 CHROME F1FR HOR. SIDEWALL WHITE RELIABLE 1/2" 155° QUICK 8.0 CHROME F1FR EXT COV HOR SW WHITE RELIABLE	————	-BALL VALVE	DP —DRY PENDENT DS —DRY SIDE WALL	NP -NOT APPLICABLE NFPA -NATIONAL FIRE PROTECTION ASSOCIATION
MAIN. REFER TO CIVIL SITE PLAN FOR CONTINUATION.	FLORIDA ADMINSTRATIVE CODE 61G15-32		-ALARM CHECK VALVE	ELEV —ELEVATION F —DEGREES FAHRENHEIT	NTS -NOT TO SCALE P -PUMP
FLOW TEST: LOCATION: DATE: TESTED BY:	1. THESE DRAWINGS HAVE BEEN PROVIDED IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE 61G15-32. THE PURPOSE OF THESE DRAWINGS IS TO MEET THE INTENT FOR THE MINIMUM ENGINEERING DRAWINGS IN ACCORDANCE WITH FAC 61G15-30. IN ADDITION, THE FIRE PROTECTION ENGINEERING DOCUMENTS ARE PROVIDED TO SET FORTH THE OVERALL DESIGN REQUIREMENTS AND PROVIDE SUFFICIENT DIRECTION FOR THE CONTRACTOR TO PROVIDE LAYOUT DOCUMENTS THAT MEET THE REQUIREMENTS OF FAC 61G15-32 AND NFPA 13		-PRESSURE REGULATING VALVE	FDC —FIRE DEPARTMENT CONNECTION FDV —FIRE DEPARTMENT VALVE	PH —PHASE PSI —POUNDS PER SQUARE INCH
STATIC PRESSURE: RESIDUAL PRESSURE: FLOW:	WORKING PLANS. 2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS THAT INCLUDE LAYOUT DRAWINGS, HYDRAULIC CALCULATIONS, DETAILS ON LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, SPRINKLER HEADS, SIZING OF PIPE, AND HANGER LOCATIONS. THESE DOCUMENTS SHALL ALSO SERVE AS A GUIDE FOR PROCUREMENT AND INSTALLATION OF THE FIRE PROTECTION SYSTEM.		-BUTTERFLY VALVE	FM —FACTORY MUTUAL FP —FIRE PROTECTION	PS —PRESSURE SWITCH QR —QUICK RESPONSE
	3. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NO INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE FIRE PROTECTION BE PROVIDED WITH ALL THE NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS THAT HAVE BEEN COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS PROVIDED IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRE FOR A COMPLETE FIRE PROTECTION SYSTEM, IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS,		-FLOW SWITCH	FS —FLOW SWITCH FT —FEET	RM —ROOM RPM —REVOLUTIONS PER MINUTE
QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL INTERIOR FIRE PROTECTION COMPONENTS: ALL NEW INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND/OR FM APPROVED.	LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. THE SPRINKLER CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS. 4. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE LAYOUT OF THE SYSTEM TO GIVE FULL CONSIDERATION TO BLIND SPACES, PIPING,	⇔	-FIRE DEPARTMENT CONNECTION	GAL —GALLON(S) GALV —GALVANIZED	SF —SQUARE FEET SPEC —SPECIFICATIONS
ACCEPTANCE TEST CRITERIA: FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA 13 (2019) AND SHALL COMPLY WITH THE LOCAL FIRE MARSHAL AND ALL	STRUCTURAL ELEMENTS, ELECTRICAL EQUIPMENT, DUCTWORK, AND OTHER CONSTRUCTION UTILITIES AND EQUIPMENT. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN WITH THE CEILING AND CEILING GRID (WHERE PROVIDED), LIGHTS, AND AIR DISTRIBUTION DEVICES. 5. DESIGN ENGINEER NO CONTROL OVER THE WATER SUPPLIES QUALITY, OR AVAILABILITY, AND CANNOT GUARANTEE THAT THE FLOW TEST RESULTS WILL REMAIN VALID FOR ANY LENGTH OF TIME. 6. SCOPE OF FIRE PROTECTION DRAWINGS STARTS WITH ENTRANCE INTO BUILDING. ANY PIPING OR UTILITIES SHOWN ON SITE ARE FOR		-FIRE PROTECTION RISER	GPM —GALLONS PER MINUTE HR —HOUR	SR —STANDARD RESPONSE STD —STANDARD
AUTHORITIES HAVING JURISDICTION. THE ACCEPTANCE TESTING OF THE FIRE SPRINKLER SYSTEM AND IT'S COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THESE (2) FORMS. NFPA 13 (2019), CHAPTER 24 (FIG 24.1) CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING. REFER TO NFPA 13 (2019) AND CHAPTER 24 FOR SYSTEM ACCEPTANCE AND CHAPTER 26 FOR INSPECTION TESTING AND MAINTENANCE.	REFERENCE ONLY. 7. THE BACKFLOW PREVENTER AND METERING SPECIFICATIONS SHALL MEET OR EXCEED REQUIREMENTS OF THE LOCAL WATER PURVEYOR. THE BACKFLOW PREVENTER SHALL BE LISTED FOR FIRE PROTECTION USE. 8. WITH EXCEPTION TO THE POINT OF ENTRY INTO THE BUILDING, THE ENTIRE FIRE PROTECTION SYSTEM SHALL BE LOCATED ABOVE GRADE		-PIPE TURNING DOWN	HYD —HYDRANT HZ —HERTZ	TEMP — TEMPERATURE TS — TAMPER SWITCH
A. CHAPTER 24, SYSTEM ACCEPTANCE. B. 24.1 APPROVAL OF SPRINKLER SYSTEMS C. 24.2 ACCEPTANCE REQUIREMENTS D. 24.3 CIRCULATING LOOP	WITHIN THE BUILDING. 9. ALL MATERIAL AND DEVICES SHALL BE UL LISTED. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION. THE FIRE SPRINKLER SYSTEM CONTROL VALVES AND WATER FLOW SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM AND MONITORED BY A UL LISTED MONITORING SYSTEM.		-PIPE TURNING UP	IE —INVERT ELEVATION ID —INTERIOR DIAMETER	TYP -TYPICAL UL -UNDERWRITER'S LABORATORY
E. 24.4 INSTRUCTION F. 24.5 HYDRAULIC DESIGN INFORMATION SIGNS	10. THE FIRE PROTECTION SYSTEM FOR THIS PROJECT SHALL BE IN FULL ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE CHAPTER 61G-15-30 AS IT PERTAINS TO A "DELEGATED ENGINEER". THE FIRE PROTECTION CONTRACTOR SHALL PROCURE THE SERVICES OF A FLORIDA REGISTERED ENGINEER WHO WILL ACT AS THE DELEGATED ENGINEER FOR THE FIRE PROTECTION SYSTEM DESIGN BASED ON THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. THE DELEGATED ENGINEER WILL BECOME THE "ENGINEER OF RECORD" FOR		-TAMPER SWITCH	IN —INCHES IPS —INTERNATIONAL PIPE STANDARD	V/PH -VOLTS/PHASE W/ -WITH
APPLICABLE NFPA STANDARDS TO BE APPLIED: A. FLORIDA BUILDING CODE – 2023 B. FLORIDA FIRE PREVENTION CODE – 2023	THIS PORTION OF THE FIRE PROTECTION SYSTEM OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER SHALL CONFORM TO ALL REQUIREMENTS SET FORTH IN THE FLORIDA ADMINISTRATIVE CODE 64G15—30.006 "DELEGATED ENGINEER'S RESPONSIBILITY". ALL FINAL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER.		-DEMO TO		
C. NFPA 13 - 2019 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS D. NFPA 14 - 2019 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS E. NFPA 24 - 2019 - STANDARD FOR INSTALLATION OF FIRE SERVICE MAINS. F. NFPA 25 - 2020 - INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEM G. NFPA 101 - 2021 - LIFE SAFETY CODE	FIRE PROTECTION GENERAL NOTES		-CONNECT TO		
CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA TYPE:	1. FIRE PROTECTION SYSTEM SHALL COMPLY WITH NFPA 13 (2019), NFPA 25 (2020), APPLICABLE STATE & LOCAL CODES, AND LOCAL AHJ REQUIREMENTS FOR INSTALLATION OF SPRINKLER SYSTEMS, INSPECTION, TESTING, AND MAINTENANCE. 2. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER AND STATE FIRE MARSHALL AND SHALL BE APPROVED PRIOR TO INSTALLATION. THE ENGINEER OF RECORD SHALL HAVE THE RIGHT TO REJECT ANY SUBMITTALS. 3. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND	FP 1	-FIRE PROTECTION RISER DESIGNATION		
LIGHT HAZARD: RESIDENTIAL, LOBBY, CORRIDORS, MEETING ROOMS, OFFICES, BREAK AREA, AND RESTROOMS. ORDINARY HAZARD GROUP 1: STORAGE ROOMS, MECHANICAL ROOMS, ELECTRICAL ROOMS, JANITOR CLOSETS.	STRUCTURAL ENGINEER. 4. FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER EXISTING TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS TO AVOID OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.	XXX	-REVISION REFERENCE		
DESIGN APPROACH: SPRINKLER SYSTEM SHALL EXTEND INTO ALL AREAS IN ACCORDANCE WITH NFPA 13 LIGHT HAZARD CLASSIFICATION OR AS NOTED. LISTED AND APPROVED SIDEWALL (5.6 K-FACTOR) AND PENDENT (5.6 K-FACTOR) SPRINKLER HEADS TO BE PROVIDED. UPRIGHT (5.6 K-FACTOR)	5. FIRE STOP ALL PENETRATIONS OF FIRE/SMOKE WALLS, CEILINGS, FLOORS, ROOFS, ETC. FLASH AND COUNTERFLASH ROOF PENETRATIONS. 6. PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON—ACCESSIBLE CEILINGS AND CHASES. 7. SPRINKLER HEADS SHALL BE COORDINATED WITH LOCATION OF ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, AND STRUCTURAL SYSTEMS. 8. INDICATE CENTER TO CENTER TO CENTER TO ADDITIONAL PROPERTY.	XXX XXX	-SHEET NOTE CALLOUT		
HEADS TO BE PROVIDED WHERE NOTED ON DRAWINGS. LIGHT HAZARD:	SCHEDULE OF WALL THICKNESS, AND METHOD OF JOINING ON SHOP DRAWINGS. 9. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA 13. 10. ALL HANGERS ON 4" PIPE AND LARGER SHALL BE CLEVIS—TYPE HANGERS. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADE. POWDER DRIVEN STUDS SHALL NOT BE USED. 11. ALL GROOVED AND SCREWED FITTINGS SHALL BE UL/FM APPROVED AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR				
SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM, STEEL SUPPLY PIPING TO NEW QUICK RESPONSE PENDENT OR UPRIGHT HEADS. K-FACTOR: 5.6 (EXTENDED COVERAGE SPRINKLER HEADS ARE ACCEPTABLE)	TO INSTALLATION. THE ENGINEER OF RECORD RESERVES THE RIGHT TO DISAPPROVE ANY FITTING. ALL SCREWED PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH ASTM A120 AND SHALL BE JOINED BY SCREWED JOINS IN ACCORDANCE WITH ANSI B2.1. ALL GROOVED PIPING 2-1/2" OR LARGER SHALL BE SCHEDULE 10 BLACK STEEL. 12. WELD-O-LETS SHALL BE TWO SIZES SMALLER THAN CROSS MAIN. NO LENGTH OF CROSS MAIN SHALL BE GREATER THAN 10'-0". ALL				
<u>DENSITY:</u> 0.10 GPM/SQ.FT. <u>AREA OF OPERATION:</u> 900 SQ.FT. MINIMUM AND 1500 SQ.FT. MAX (DESIGN AREA REDUCTION MAY ON BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13 (2016).	SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED ABSOLUTELY RUST-FREE. 13. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13. 14. ALL VALVES FOR FIRE SERVICE SHALL BE UL LISTED AND FM APPROVED. VALVES SHALL BE RATED FOR 175 PSI WORKING PRESSURE. 15. SPRINKLER COVERAGE SHALL COMPLY WITH MINIMUM NFPA 13 REQUIREMENTS. SPRINKLER LOCATIONS WITH RESPECT TO OBSTRUCTIONS				
HEAD TEMPERATURE RATING: 155°F SPACING: 225 SQ.FT. MAX PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.	SHALL COMPLY WITH NFPA 13, CHAPTER 8, OR THE APPROPRIATE CHAPTER BASED ON SPRINKLER TYPE. 16. IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS, OTHER ENGINEERING DISCIPLINES, THE ARCHITECTURAL PLANS, AND/OR FIELD CONDITIONS PRIOR TO FINAL BID OR FINAL PERMITTING. 17. IN CASE OF DISPUTE OR DOUBLES TO THE INTENT OF THE DRAWINGS, OBTAIN ARCHITECT / ENGINEER WRITTEN CLARIFICATIONS BEFORE				
HOSE ALLOWANCE: 100 GPM	PROCEEDING WITH BID OR CONSTRUCTION. 18. PRIOR TO SUBMISSION PROPOSAL OR BID, CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT, THE AMOUNT OF SPACE AVAILABLE FOR PIPING AND EQUIPMENT, AND THE SCOPE OF THE SITE WORK. 19. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY, AND AFTER ASSEMBLY THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN.			FP001 GENERAL NOT	SHEET INDEX TES, LEGEND, & SHEET INDEX - FIRE PROTECTION
ORDINARY HAZARD GROUP 1: SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM, STEEL SUPPLY PIPING TO NEW QUICK RESPONSE PENDENT OR UPRIGHT HEADS. K—FACTOR: 5.6, 8.0, 11.2, OR 14.0 (EXTENDED COVERAGE SPRINKLER HEADS ARE ACCEPTABLE)	20. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE EXISTING CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS. 21. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4'-0" OR WIDER. 22. PROVIDE HAZARD COVERAGE FOR FUNCTIONS FOR EACH AREA. 23. INDICATE THE LOCATION AND SIZE OF BLIND SPACES AND CLOSETS. 24. INDICATE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM(S). 25. ALL PENDENT SPRINKLERS SHALL BE CENTER OF TILE, UNLESS MAXIMUM DISTANCES FROM WALLS OR BETWEEN HEADS IS EXCEEDED OR				TON FLOOR PLAN
<u>DENSITY:</u> 0.15 GPM/SQ.FT. <u>AREA OF OPERATION:</u> 900 SQ.FT. MINIMUM AND 1500 SQ.FT. MAX (DESIGN AREA REDUCTION MAY ON BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13 (2016).	UNLESS EXPLICITLY SHOWN DIFFERENT ON DRAWINGS. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING GRID MEMBERS, CEILING HEIGHT CHANGES, OR ANY OTHER VERTICAL INTERSECTION SURFACE. 26. FIRE PROTECTION CONTRACTOR SHALL ASSIST IN PREPARATION OF COORDINATION DRAWINGS FOR ALL LEVELS WHICH SHOW ALL THE ENGINEERING DISCIPLINES & FIRE PROTECTION PIPING. THESE DRAWINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ANY				
HEAD TEMPERATURE RATING: 155°F SPACING: 130 SQ.FT. MAX PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE. HOSE ALLOWANCE: 250 GPM	INSTALLATION. 27. FIRE SPRINKLER PIPING SHALL NOT TRAVEL OVER THE TOPS OF ELECTRICAL PANELBOARDS. 28. PROVIDE TEFLON COATING FOR ALL SPRINKLERS IN ANY CORROSIVE AREA. 29. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS IN EACH AREA / SPACE. 30. ALL EXPOSED PIPING SHALL BE PAINTED RED. 31. ALL MATERIALS, WHERE APPLICABLE, SHALL BE U.L. LISTED OR FACTORY MUTUAL APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS IN ACCORDANCE WITH NFPA 13. MINIMUM HYDROSTATIC TEST				
	PRESSURE HALL BE 200 PSI. 32. FLEXIBLE SPRINKLER CONNECTIONS SHALL NOT BE PERMITTED. 33. THE SMALL ROOM RULE SHALL BE ACCEPTABLE FOR PLACEMENT OF SPRINKLERS PER NFPA 13-2019, 8.6.3.2.4. 34. UPON SPRINKLER SYSTEM IMPAIRMENT, NFPA 25-2020, 15.5.2 SHALL BE FOLLOWED DURING SPRINKLER SYSTEM DOWNTIME.				

igg(6igg) provide fire sprinkler head at bottom of elevator pit.

 $\langle 7 \rangle$ fire department connection.



Date

FLOOR PLAN - PROTECTION

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