

- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE:

CLIENT:

The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



SUBJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

[illegible]

DWG INFO :
 ISSUE DATE: 4/11/25
 PROJECT #: 22105
 DRAWN BY: JS
 CHECKED BY: JK

DWG DESCRIPTION :

**AMENITIES BLDG
PLUMBING PLANS**

SHEET #:

P-1

SPRINKLER DESIGN CRITERIA

OCCUPANCY	HAZARD	REMOTE AREA	HOSE STREAM	MAX HEAD COVERAGE	REMARKS
LIGHT HAZARD	0.10 GPM/SF	1500 SF	100 GPM	225 SF/HD	QR RESIDENTIAL SPRINKLERS THROUGHOUT

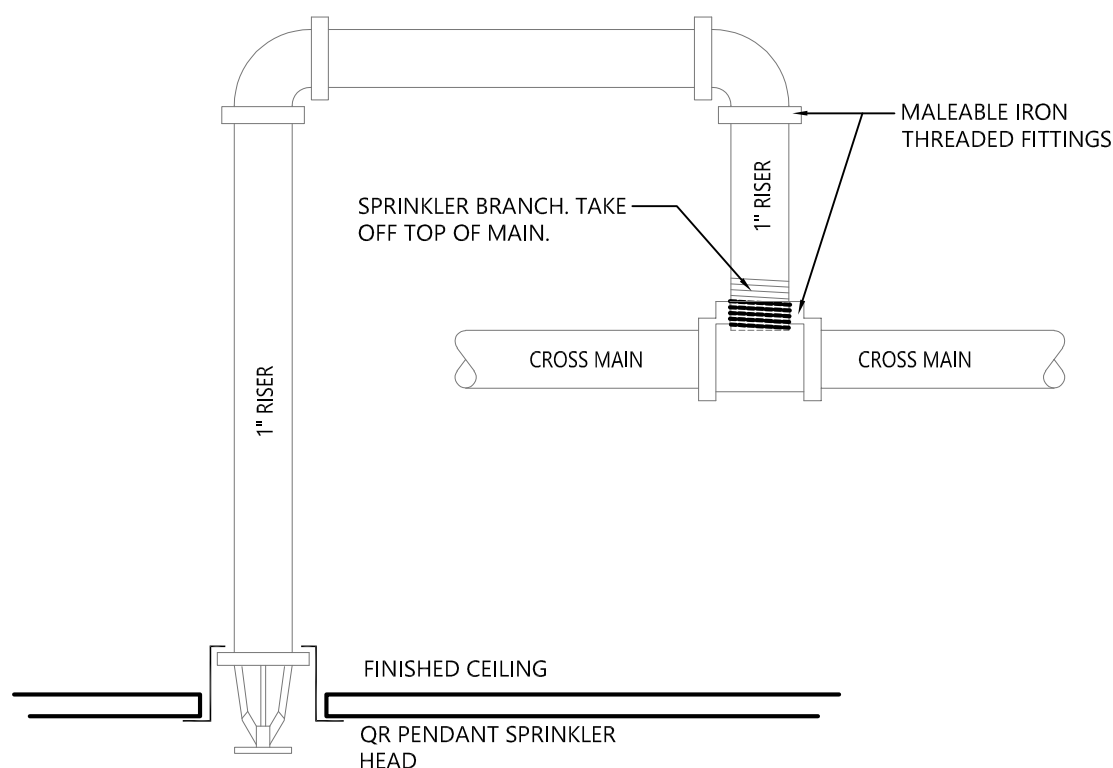
- SPRINKLER CONTRACTOR SHALL VERIFY FINISH OF ESCUTCHEON/FACEPLATE WITH ARCHITECT/OWNER.
- SPRINKLER HEADS SHALL MATCH OWNER STANDARDS.
- ESCUTCHEONS SHALL BE COMPATIBLE WITH MAKE AND MODEL OF HEAD TYPES.
- ESCUTCHEONS SHALL BE INSTALLED TO ACCOUNT/ADJUST FOR CEILING TILE DEFLECTION.

GENERAL PROJECT NOTES:

- MOUNT SPRINKLERS WITHIN CENTER OF A.C.T.
- SPRINKLERS SHALL BE A MINIMUM 4" FROM WALLS/OBSTRUCTION.
- SPRINKLERS SHALL BE INSTALLED A MINIMUM OF 6'-0" APART.
- SOFFITS ARE TO BE SPRINKLED, UNLESS ARE APPLICABLE TO EXEMPTION PER NFPA 8.6.5.1.2.
- PROVIDE ADDITIONAL FIRE SPRINKLERS, AS MAY BE DIRECTED BY FIRE MARSHALL, AT NO ADDITIONAL COST TO OWNER.
- PROVIDE UPRIGHT HEADS WITHIN OPEN CEILINGS.
- PROVIDE SEMI RECESSED HEADS WITHIN A.C.T. CEILINGS.
- PROVIDE CONCEALED HEADS WITHIN GYPSUM CEILINGS.
- COORDINATE SPRINKLERS WITH LIGHTING/RCP, MECHANICAL, AND ALL OTHERS TRADES WITHIN PLANE OF CEILING.

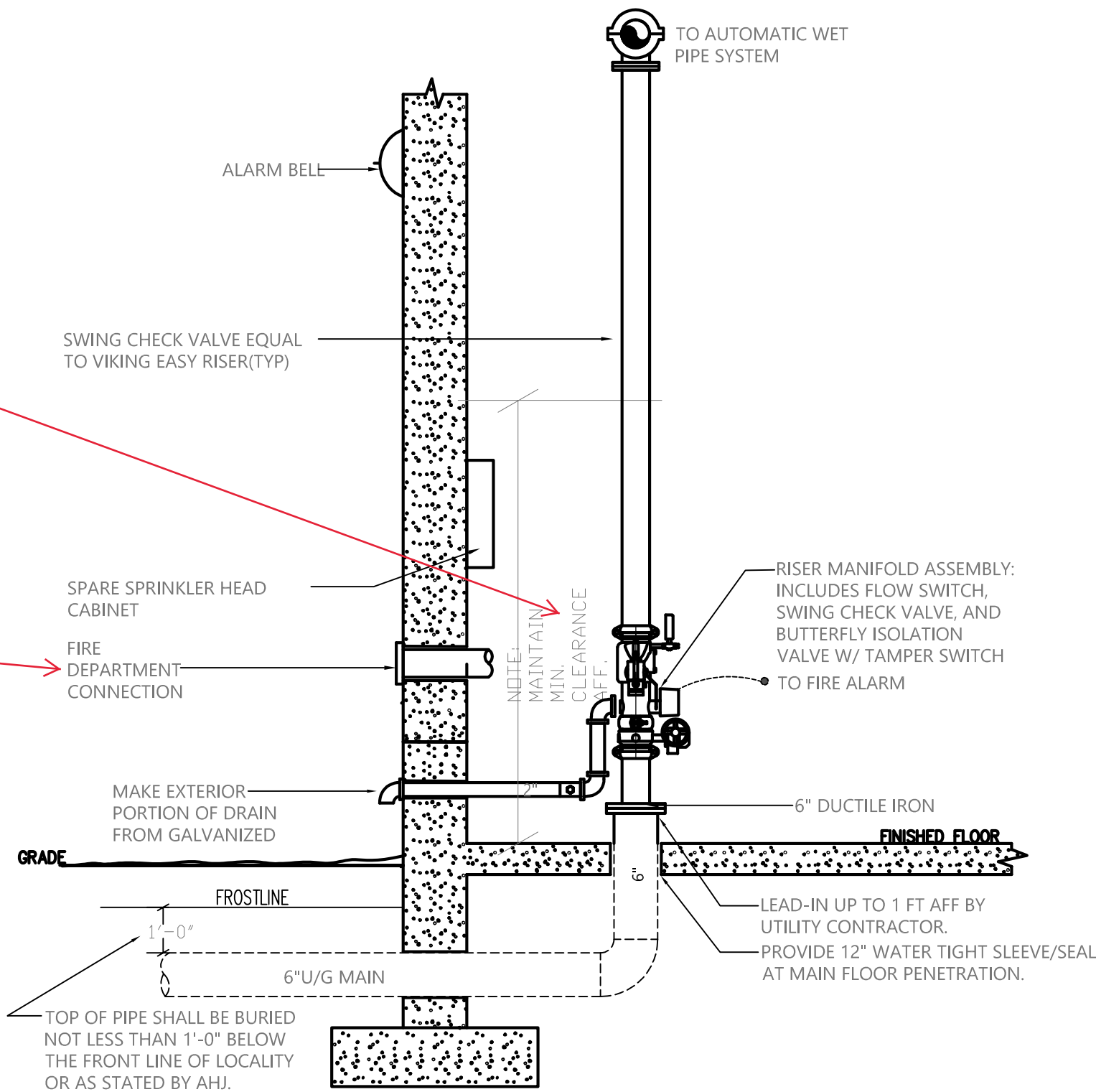
Scope of Work:

PROJECT CONSISTS OF INSTALLING NEW WET SPRINKLER SYSTEM THROUGHOUT ALL APARTMENT BUILDINGS ON SITE.



Does this have an RPZ on the fire line?

we are running to a yard mounted remove FDC right? We need to show in this detail like that. It would be a 6-inch line size right?



DEFERRED SUBMISSION

THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS WITHIN THE WILDE ENGINEERING DOCUMENT SET ARE PERFORMANCE BASED AND INTENDED TO CONVEY SCOPE OF THE WORK. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE LOCAL AHJ SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT, INCLUDING FINAL HEAD LOCATIONS AND MAIN/LEADER PIPING SIZING. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THESE DOCUMENTS SEALED BY A LICENSED FIRE PROTECTION ENGINEER.

FIRE PROTECTION SPECIFICATIONS

- FIRE PROTECTION CONTRACTOR TO PROVIDE DESIGN AND INSTALLATION FOR NEW FIRE SPRINKLER SYSTEMS FOR NEW APARTMENTS BUILDINGS. FIRE PROTECTION SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND DESIGNED. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL NECESSARY EQUIPMENT INCLUDING PIPE, FITTINGS, VALVES AND ACCESSORIES. FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS, DESIGN OF SPRINKLER SYSTEMS, TESTING, MATERIAL AND LABOR FOR COMPLETE FIRE PROTECTION SYSTEM.
- SPRINKLER SYSTEMS SHALL BE DESIGNED TO MEET STANDARDS OF NFPA 13R 2013ED. THE DESIGN SHALL ALSO MEET THE REQUIREMENTS OF THE OWNER'S INSURANCE COMPANY AND THE LOCAL AUTHORITY HAVING JURISDICTIONS.
- SUBCONTRACTOR SHALL PROVIDE COPIES OF DESIGN CALCULATIONS, DRAWINGS AND ALL SUBMITTAL DATA TO ALL AUTHORITY HAVING JURISDICTIONS, OWNER'S INSURANCE COMPANY AND ARCHITECT. FIRE PROTECTION CONTRACTOR TO PROVIDE COPIES OF MATERIAL DATA AND TEST CERTIFICATES FOR ABOVE GROUND PIPING STARTING AT 1'-0" ABOVE FINISHED FLOOR AT LEAD IN LOCATIONS TO AUTHORITY HAVING JURISDICTION, OWNER AND ENGINEER OF RECORD AS RECORD OF COMPLETION.
- OPERATION AND MAINTENANCE MANUALS TO BE PROVIDED TO THE OWNER BY THE FIRE PROTECTION CONTRACTOR.
- FIRE PROTECTION CONTRACTOR TO PROVIDE TRAINING FOR OWNER TO FAMILIARIZE THEMSELVES WITH BASIC FUNCTION OF THE FIRE SPRINKLER SYSTEMS, LOCATION OF RISER, MAINTENANCE REQUIREMENTS PER NFPA 25, EMERGENCY CONTACTS AND SHUT OFF VALVE LOCATIONS.
- ALL PIPE INSIDE THE UNITS WILL BE FIRE RATED CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE ASME B1.20.1, ASTM F441. ALL FITTINGS WILL BE CHLORINATED POLYVINYL CHLORIDE ASTM F439. THESE FITTINGS AND PIPE WILL BE JOINED BY SOLVENT CEMENT FOR ASTM F493. ALL CPVC PIPE AND CPVC FITTINGS TO BE UL/FM LISTED AND APPROVED.
- GATE VALVES WILL BE MADE OF AN IRON BODY, BRONZE TRIM, RISING OUTSIDE SCREW AND YOKE WITH SOLID WEDGE UL/FM LISTED AND APPROVED.
- SPRINKLER HEADS: PROVIDE 155" QUICK RESPONSE RESIDENTIAL SPRINKLERS IN THE PENDENT POSITION WITHIN THE UNITS ON THE LOWER FLOORS AND SIDEWALL SPRINKLERS ON THE TOP FLOOR OF ALL BUILDINGS. PROVIDE 155" DRY SIDEWALL SPRINKLERS IN ALL BREEZEWAYS IN ALL BUILDING TYPES.
- FIRE PROTECTION CONTRACTOR TO INSTALL PIPING IN ACCORDANCE WITH NFPA 13R 2013 ED. SEAL PIPING AND SLEEVE PENETRATIONS TO ACHIEVE FIRE RESISTANCE TO FIRE SEPARATION AS REQUIRED.

FIRE PROTECTION CRITERIA

- NEW CONSTRUCTION IS 7 MULTI STORY APARTMENT BUILDINGS VARYING IN SIZE WITH A NEW WET SPRINKLER SYSTEM DESIGNED PER NFPA-13R 2013 ED. CPVC SPRINKLER PIPE WILL BE RAN WITHIN THE TRUSSES BETWEEN FLOORS WITH THE SPRINKLER HEADS BEING FED FROM THIS PIPE. THE SITE IS LOCATED IN HENDERSONVILLE, NC.
- FIRE SPRINKLER ACCEPTANCE TESTING SHALL BE PROVIDED PER NFPA-13R 2013 ED.
- SPRINKLER SYSTEM FOR THE BUILDING SHALL BE WET PIPE SPRINKLER SYSTEM, DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13R 2013 ED.
- THESE APARTMENT BUILDINGS WILL BE DESIGNED FOR LH OCCUPANCY PER NFPA-13R 2013ED. SPRINKLERS WILL BE RESIDENTIAL SPRINKLERS WITH SPRINKLER SPACING PER SPRINKLER SPECIFICATION SHEETS USED IN DESIGN. FIRE PROTECTION CONTRACTOR WILL BE A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM AND WILL BE RESPONSIBLE FOR PROVIDING HYDRAULIC CALCULATIONS FOR THE FIRE SPRINKLER SYSTEM.
- STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS FOR THE FIRE PROTECTION SYSTEM INCLUDING LIVE AND DEAD LOADS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. CPVC PIPE WILL BE LOCATED WITH A WALL CAVITY IN THE UNIT. ALL PENETRATIONS THRU STRUCTURAL MEMBERS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER PRIOR TO CORING OR SUPPORTING TO ENSURE PROPER WEIGHT DISTRIBUTION AND TO AVOID WEAKENED STRUCTURE. ALL FIRE PROTECTION PIPING PENETRATIONS SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED CAULK.
- FIRE PROTECTION CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING SEISMIC BRACING OF THE FIRE PROTECTION MAIN PIPING AND BRANCH LINE PIPE WILL BE SUPPLIED IF APPLICABLE.
- SPRINKLERS IN BATHROOMS 55 SQFT AND SMALLER ARE PERMITTED TO BE OMITTED PER NFPA 13R 2013ED SECTION 6.6.2. SPRINKLERS IN CLOTHES CLOSETS, LINEN CLOSETS AND PANTRIES ARE PERMITTED TO BE OMITTED PER NFPA 13-R 2013ED. SECTION 6.6.3. SPRINKLERS ARE PERMITTED TO BE OMITTED IN CLOSETS ON BALCONIES PER NFPA 13-R 2013 ED. SECTION 6.6.7
- PENDENT SPRINKLERS SHALL BE LOCATE AT LEAST 3FT FROM CEILING FANS AND LIGHT FIXTURES PER NFPA 13R-2013 ED. SECTION 6.4.6.3.4.1. SIDEWALL SPRINKLERS SHALL BE LOCATED AT LEAST 5FT FROM CEILING FANS AND LIGHT FIXTURES PER NFPA 13R-2013 ED. SECTION 6.4.6.3.5.1

FIRE PROTECTION GENERAL NOTES

- ALL WORK TO BE PERFORMED BY A FIRE PROTECTION CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA AND IS CAPABLE OF HANDLING THE WORK OF THE SIZE AND SCOPE INDICATED ON THE PLANS. ALL WORK SHALL BE PERFORMED BY OTHERS. ALL WORK SHALL BE NEAT AND PROFESSIONAL, AND SHALL MEET ALL SAFETY REQUIREMENTS SPECIFIED BY CODE OR RECOMMENDED MANUFACTURER.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. CLEARANCES SHALL BE MAINTAINED AND EQUIPMENT SHALL BE INSTALLED TO ALLOW FOR EASE OF SERVICE.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODES AND WITH REQUIREMENTS OF ALL LOCAL AUTHORITY HAVING JURISDICTIONS.
- THE FIRE PROTECTION CONTRACTOR SHALL WARRANTY ALL OF THEIR WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS, STARTING AT THE DATE WHEN THE SYSTEM IS DETERMINED TO BE PUT INTO SERVICE AND COMPLETE. IF DURING THE WARRANTY PERIOD ANY PORTION OF THE SYSTEM(S) IS FOUND TO BE DEFECTIVE, THE FIRE PROTECTION CONTRACTOR SHALL REPAIR OR REPLACE THAT PORTION OF THE SYSTEM IN A TIMELY MANNER AND AT NO EXPENSE TO THE OWNER. THIS WARRANTY SHALL BE IN ADDITION TO ANY MANUFACTURER'S WARRANTY.
- THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SET OF NFPA SHOP DRAWINGS SHOWING THE PIPE ROUTES, HANGER LOCATIONS AND PLACEMENT OF SPRINKLERS. THESE DRAWINGS SHALL INDICATE REMOTE AREAS AND DENSITIES ALONG WITH SPACING OF THE SPRINKLER HEADS WITHIN THE BUILDING. THE DRAWINGS SHALL CROSS REFERENCE NODES AND PIPES USED TO PREPARE HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS SHALL BE PERFORMED AND BASED ON THE PREPARED DRAWINGS BY THE FIRE PROTECTION CONTRACTOR. THE HYDRAULIC CALCULATIONS SHALL PROVE THE WATER PRESSURES AND FLOWS AT THE SITE ARE SUFFICIENT TO MEET SPRINKLER REQUIREMENTS.
- PIPE AND EQUIPMENT SUPPORTS AND HANGERS SHALL MEET LOCAL SEISMIC REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE AND NFPA STANDARDS. SEISMIC CALCULATIONS SHALL BE PERFORMED TO DETERMINE THE TYPE OF SEISMIC BRACES AND RESTRAINTS THAT SHALL BE USED FOR THE SPRINKLER SYSTEM IF APPLICABLE.
- REFER TO PLUMBING PLANS FOR RISER ROOM LOCATIONS AND BUILDING LAYOUTS



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FIRE
PROTECTION
COVER SHEET

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FP-0