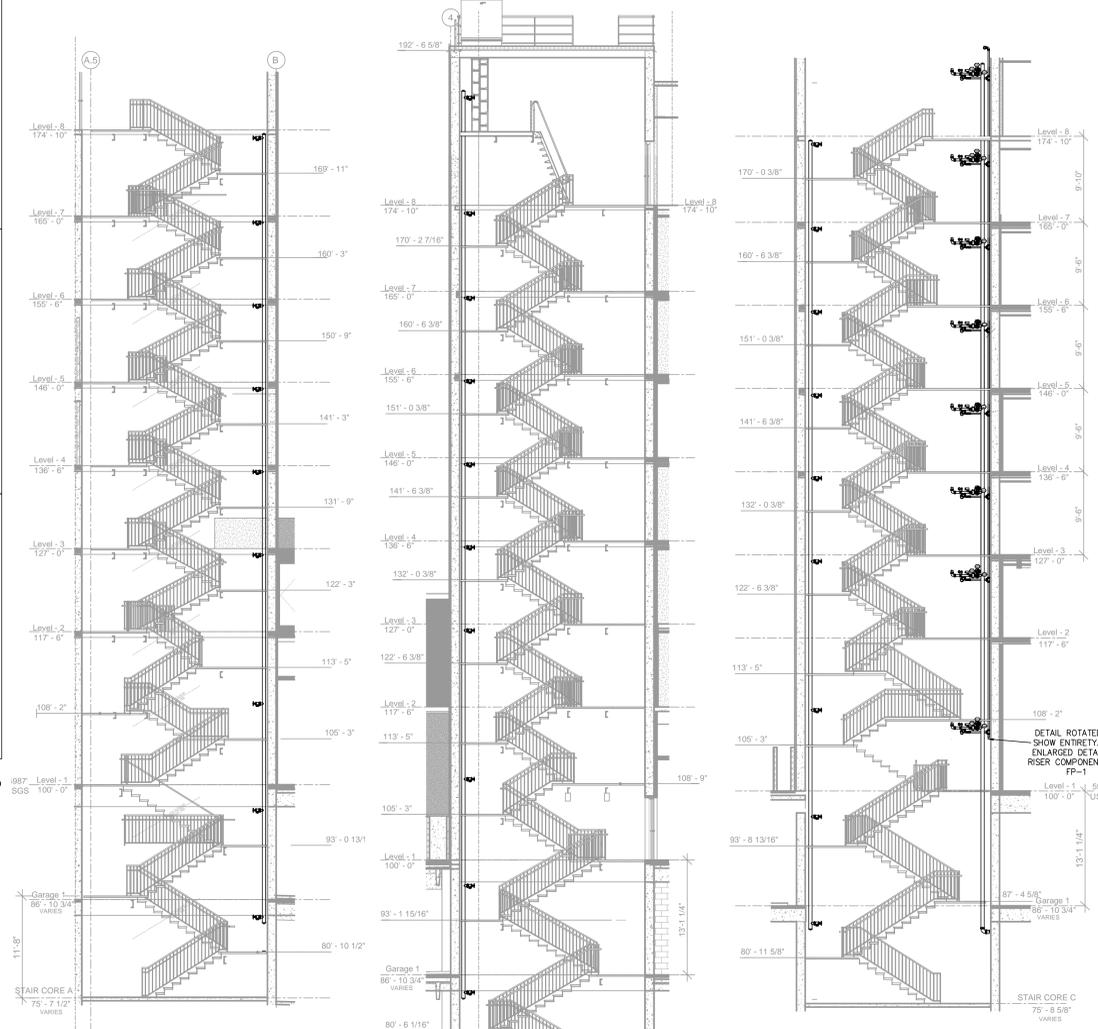


GENERAL NOTES

- INTERNATIONAL BUILDING CODE (2009)
 - OCCUPANCY: MIXED USES (NON-SEPERATED) R-1, A-2, A-3, B, F-1, S-1, S-2
 - TYPE OF CONSTRUCTION: I-B
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
 - G2 LOWER LEVEL = 42,300 S.F.
 - G1 FLOOR = 31,950 S.F.
 - 1ST FLOOR = 31,950 S.F.
 - 2ND FLOOR = 31,600 S.F.
 - 3RD FLOOR = 23,850 S.F.
 - 4TH FLOOR = 23,850 S.F.
 - 5TH FLOOR = 23,850 S.F.
 - 6TH FLOOR = 23,850 S.F.
 - 7TH FLOOR = 23,850 S.F.
 - 8TH FLOOR = 18,325 S.F.
 - TOTAL = 288,725 S.F.
 - TOTAL BUILDING OCCUPANCY: 3,590
- INSTALLATION STANDARDS:
 - SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA 13(2019), MARIOTT DESIGN STANDARDS, AND COLORADO SPRINGS AUTOMATIC FIRE SPRINKLER SYSTEMS STANDARDS
 - BUILDING CODE INFORMATION PROVIDED BY OTHERS
- SPRINKLER PIPE TYPES:
 - BRANCH LINES TO BE BLAZEMASTER CPVC PIPING WITH CEMENTED FITTINGS
 - 1" THROUGH 2" MAIN & BRANCH LINES TO BE BLAZEMASTER CPVC PIPING WITH CEMENTED FITTINGS
 - 1" BRANCH LINES TO BE MEGA THREAD PIPING WITH THREADED FITTINGS
 - COMMERCIAL PENDENTS TO BE INSTALLED ON FLEX DROPS
 - 1" THROUGH 6" MAIN & BRANCH LINES TO BE MEGA FLOW PIPING WITH STANDARD GROOVED FITTINGS
 - 1" BRANCH LINES TO BE MEGA THREAD PIPING WITH THREADED FITTINGS
 - 1" THROUGH 6" MAIN & BRANCH LINES TO BE MEGA FLOW PIPING WITH STANDARD GROOVED FITTINGS
 - *SEE PIPE LEGEND ON FP-2 FOR INTERNAL DIAMETERS OF ALL PIPE TYPES
- DESIGN CRITERIA
 - COMMON PLACES SUCH AS LOBBY AREAS, RESTROOMS, FITNESS ROOM, OFFICES AND BREAKROOMS DESIGNED TO LIGHT HAZARD
 - RESIDENTIAL HOTEL ROOMS AND THE CORRIDORS LEADING TO THEM DESIGNED TO RESIDENTIAL SPRINKLER STANDARDS
 - PARKING GARAGES, LAUNDRY, HOUSEKEEPING, STORAGE, MECHANICAL ROOMS AND COMMERCIAL KITCHEN AREAS DESIGNED TO ORDINARY HAZARD GROUP 1
 - SERVICE 128 & FIRE TENANT SHELL SPACES DESIGNED TO ORDINARY HAZARD GROUP 2
 - DIESEL GENERATOR AREA DESIGNED TO EXTRA HAZARD GROUP 2
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 19.3.3.2.3
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - COVERAGE NOT REQUIRED IN DWELLING UNIT BATHROOMS LESS THAN 55 S.F. PER 9.2.4.1.1 AND CLOSETS LESS THAN 24 S.F. PER 9.2.4.2
 - COVERAGE NOT REQUIRED IN CONCEALED SPACES OF NONCOMBUSTIBLE AND LIMITED-COMBUSTIBLE CONSTRUCTION HAVING LIMITED ACCESS AND NOT PERMITTING OCCUPANCY OR STORAGE OF COMBUSTIBLES PER 9.2.1.2
 - RESIDENTIAL SPRINKLERS USED IN HALLWAYS OF FLOORS WITH DWELLING UNITS PER 12.1.1
 - ELEVATORS ARE TRACTION TYPE WITH NONCOMBUSTIBLE BELTS, HOISTWAY COVERAGE NOT REQUIRED PER 9.3.6.3
 - ALL NET SYSTEM PIPING IN UNHEATED SPACE OF LOWER G1 LEVEL WILL BE HEAT TRACED.
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2019) - SEE PLAN FOR HANGER DETAIL AND SPACING REQUIREMENTS
 - STEEL PIPE BRANCH LINES AND ARMOVERS SUPPLYING PENDENT SPRINKLERS, WHERE THE GREATER OF EITHER THE MAX STATIC OR FLOWING PRESSURE EXCEEDS 100 PSI SHALL NOT HAVE AN UNSUPPORTED LENGTH GREATER THAN 12IN BETWEEN THE END PENDENT SPRINKLER AND THE LAST HANGER ON THE PIPELINE PER 17.4.3.4.4
 - CPVC BRANCH LINES AND ARMOVERS SUPPLYING PENDENT SPRINKLERS WHERE THE GREATER OF EITHER THE MAX STATIC OR FLOWING PRESSURE EXCEEDS 100 PSI SHALL BE SUPPORTED BY A ONE POINT VERTICAL RESTRAINT AT A MAXIMUM DISTANCE OF 9IN FROM A TEE OR ELBOW FOR 1" PIPE OR 12IN FOR 1/2"-3" PIPE OR BY A TWO-POINT VERTICAL RESTRAINT AT A MAXIMUM DISTANCE OF 4FT FOR 1" PIPE, 5FT FOR 1/2", OR 7FT FOR 1/2"-3" PIPE PER THE INSTALLATION AND TECHNICAL HANDBOOK OF BLAZEMASTER PRODUCTS.
 - DRY SYSTEM PIPE SIZES:
 - SPRINKLER MAINS TO BE 1/2" PER 10 FEET
 - SPRINKLER BRANCH LINES TO BE 1/2" PER 10 FEET
 - DRY SYSTEM CAPACITY:
 - 4.11.1. G2 ZONE: 1265 GAL
 - 4.11.2. G1 ZONE: 1072 GAL
 - 4.11.3. SERVICE 128: 44.4 GAL
- SYMBOLS USED ON DRAWINGS:
 - PIPE ELEVATION A.F.F
 - ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
 - HYDRAULIC CALCULATION JUNCTION POINT
 - 10'-0" CEILING HEIGHT
 - HANGER LOCATION
- SCOPE OF WORK:
 - 2 ZONE DRY SYSTEM FOR LOWER GARAGE LEVELS AND A WET SYSTEM, W/ A SMALL DRY SYSTEM FOR SERVICE AREA 128, ZONED PER FLOOR FOR 8 OCCUPIED LEVELS WITH MANUAL STANDPIPES ON THE INTERMEDIATE LANDINGS IN EACH STAIR CORE.
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2019)

<p>RELIABLE F1FR SERIES PENDENT SPRINKLER F1FR56 5.6K</p> <p>TYPICAL COMMERCIAL PEND DETAIL</p> <p>MAX DISTANCE OFF WALL: 7'-6" MAX DISTANCE BETWEEN HEADS: 15'-0" MAX DISTANCE FROM DECK: 1'-0" MAX COVERAGES LIGHT HAZARD: 225 S.F. ORDINARY HAZARD: 130 S.F.</p> <p>SYMBOLS ON PLAN: [Symbol]</p>	<p>RELIABLE F1-RES SERIES PENDENT SPRINKLER F1 RES 4.9K</p> <p>TYPICAL RES SIDEWALL DETAIL</p> <p>MAX DISTANCE OFF WALL: 7'-6" MAX DISTANCE BETWEEN HEADS: 15'-0" DISTANCE FROM CEILING: 0'-4" - 0'-6" MAX COVERAGES LIGHT HAZARD: 225 S.F. ORDINARY HAZARD: 130 S.F.</p> <p>SYMBOLS ON PLAN: [Symbol]</p>
<p>RELIABLE F1FR SERIES UPRIGHT SPRINKLER F1FR56 5.6K</p> <p>TYPICAL COMM UPRIGHT DETAIL</p> <p>MAX DISTANCE OFF WALL: 7'-6" MAX DISTANCE BETWEEN HEADS: 15'-0" MAX DISTANCE FROM DECK: 1'-0" MAX COVERAGES LIGHT HAZARD: 225 S.F. ORDINARY HAZARD: 130 S.F.</p> <p>SYMBOLS ON PLAN: [Symbol]</p>	<p>RELIABLE F3OR56 SERIES OR DRY PENDENT 5.6K</p> <p>TYP. COMMERCIAL DRY PEND DETAIL</p> <p>MAX DISTANCE OFF WALL: 7'-6" MAX DISTANCE BETWEEN HEADS: 15'-0" MAX DISTANCE FROM DECK: 1'-0" MAX COVERAGES LIGHT HAZARD: 225 S.F. ORDINARY HAZARD: 130 S.F.</p> <p>SYMBOLS ON PLAN: [Symbol]</p>
<p>RELIABLE F1-RES SERIES PENDENT SPRINKLER F1 RES 4.9K</p> <p>TYPICAL RES PEND DETAIL</p> <p>MAX DISTANCE OFF WALL: 7'-6" MAX DISTANCE BETWEEN HEADS: 15'-0" MAX DISTANCE FROM CEILING: 0'-4" - 0'-6" MAX COVERAGES LIGHT HAZARD: 225 S.F. ORDINARY HAZARD: 130 S.F.</p> <p>SYMBOLS ON PLAN: [Symbol]</p>	<p>RELIABLE GL112 SERIES PENDENT SPRINKLER 11.2K</p> <p>TYP. COMM DRY SIDEWALL DETAIL</p> <p>MAX DISTANCE OFF WALL: 5" MAX DISTANCE BETWEEN HEADS: 10'-0" MAX ROOM WIDTH: 14'-0" MAX COVERAGES ORDINARY HAZARD: 100 S.F. MIN DISTANCE FROM CEILING: 4"</p> <p>SYMBOLS ON PLAN: [Symbol]</p>

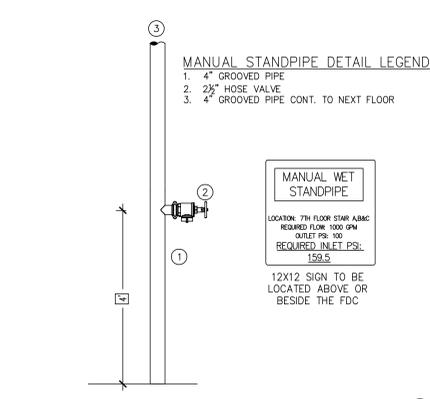
FIREWALL LEGEND



A STAIR CORE A SECTION
SCALE: 1/8" = 1'-0"

B STAIR CORE B SECTION
SCALE: 1/8" = 1'-0"

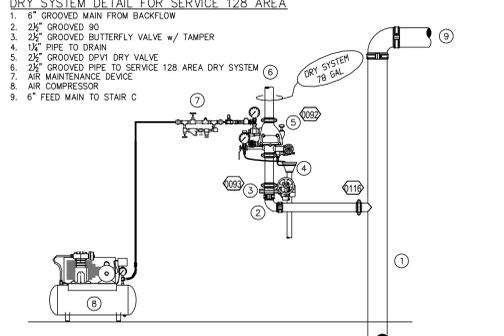
C STAIR CORE C SECTION
SCALE: 1/8" = 1'-0"



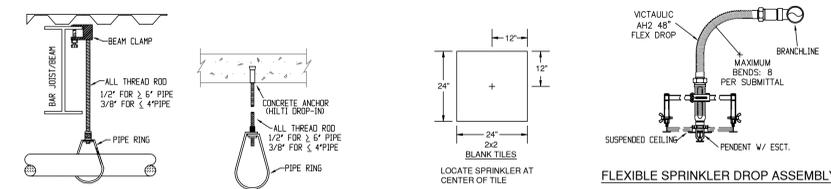
3 MANUAL STANDPIPE DETAIL
SCALE: 1/2" = 1'-0"

SPRINKLER LEGEND

SYM	QTY	POSITION	FINISH	TYPE	K	RPY	SIN	HPFS	MODEL #	ESCUITCHER/HEAD BOX (QTY MIN)
2	2	UPR-SPRIG	BRASS	286	5.60	1/2"	RA1425	RELIABL	F1FR56	2
417	1	PEND	CHROME	200	5.60	1/2"	RA1414	RELIABL	F1FR56	SEMI-RECESSED 2
24	1	UPR	BRASS	200	5.60	1/2"	RA1425	RELIABL	F1FR56	2
5	1	PEND	CHROME	286	5.60	1/2"	RA1414	RELIABL	F1FR56	SEMI-RECESSED 2
5	1	SIDE	CHROME	200	5.60	1/2"	RA1425	RELIABL	F1FR56	SEMI-RECESSED 2
860	1	UPR-SPRIG	BRASS	200	5.60	1/2"	RA1425	RELIABL	F1FR56	2
17	1	PEND	WHITE POLY	200	5.60	1/2"	RA1414	RELIABL	F1FR56	SEMI-RECESSED 2
752	1	PEND	WHITE	175	4.90	1/2"	RA3516	RELIABL	F1 RES	SEMI-RECESSED 2
466	1	SIDE	WHITE	175	4.40	1/2"	RA3531	RELIABL	F1 RES	SEMI-RECESSED 2
12	1	PEND	CHROME	200	5.60	1"	R5734	RELIABL	F3OR	SEMI-RECESSED 2
17	1	PEND	CHROME	218	11.20	3/4"	R2616	RELIABL	GL112	SEMI-RECESSED 2
4	1	SIDE	CHROME	200	5.60	1"	R5734	RELIABL	F3OR	2
2573		TOTAL								



2 SERVICE 128 DRY SYSTEM RISER DETAIL
SCALE: 1/2" = 1'-0"



HANGER DETAILS

INSTALLATION DETAILS

STEEL PIPE EXCEPT THREADED LIGHTWALL THREADED LIGHTWALL STEEL PIPE COPPER TUBE BLAZEMASTER CPVC	NOMINAL PIPE SIZE (IN.)										
	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	
MAXIMUM DISTANCE BETWEEN HANGERS (FT.-IN.)	12-0	12-0	12-0	12-0	12-0	12-0	12-0	12-0	12-0	12-0	12-0
NFPA 13 HANGER SPACING	5-6	6-0	6-6	7-0	8-0	9-0	10-0	10-0	NA	NA	NA

Colorado Springs Utilities
It's how we're all connected

Water Planning and Design

FAX
2 Pages with Map

Fire Flow Calculations

Date of Calculation	7/13/2020
WO#	
Project Location	402 S Tejon
Requester Name	
FAX#	
Phone#	
Pressure Zone: Overflow Elevation	Lowline: 6225
Map Sheet	H-35

Maximum pressure = (Overflow Elevation - Hydrant Elevation) / 2.31

Hydrant	Elevation	Flow, theoretical (gpm)	Static Pressure at Max Day Demand (psi)
81-A	5984	2800	101
67-A	5988	2300	100 (THIS HYDRANT USED FOR HYDRAULIC CALCULATIONS)
80-A	5984	2800	101
66-A	5988	2300	99

Per Colorado Springs Fire Department, the calculations provided are acceptable up to 1 year from above date.

Comments:
** Colorado Springs Rules and Regulations require that second and subsequent fire flow requests for the same address within a 12 month period are supplied with a minimum \$50.00 fee for existing infrastructure and \$200.00 fee for multiple runs for proposed infrastructure.

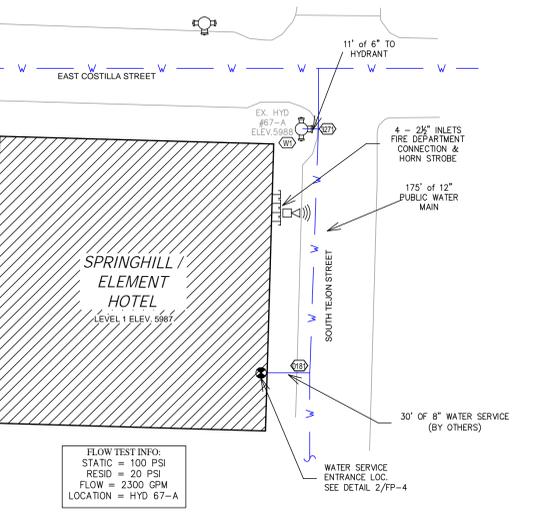
Distribution: Doreen Withee - Fire Prevention - without map

Meg Tucker
Colorado Springs Utilities
mtucker@csu.org
719-668-4064 (phone)

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VICINITY MAP
N.T.S.



FLOW TEST INFO:
STATIC = 100 PSI
RESID = 20 PSI
FLOW = 2300 GPM
LOCATION = HYD 67-A

* WATER STUDY CALCULATION INFORMATION PROVIDED BY COLORADO SPRINGS UTILITIES ON 7/13/20

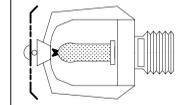
SITE PLAN
SCALE: 1" = 50'-0"

CSFD PLAN REVIEW NUMBER 2018-1571

REVISIONS	DATE	DESCRIPTION

SPRINKLER LEGEND

SEE MASTER PROJECT SPRINKLER LEGEND ON FP-1



SPRINGHILL / ELEMENT HOTEL
402 S. TEJON ST. & 155 E. COSTILLA ST.
COLORADO SPRINGS, CO 80903

FIRE SPRINKLER PLAN

PERMIT NO.	
CONTRACT NO.	5645
APPROVAL	
DRAWN BY	
SUBMITTED	4-20-21
PLOTTED	

