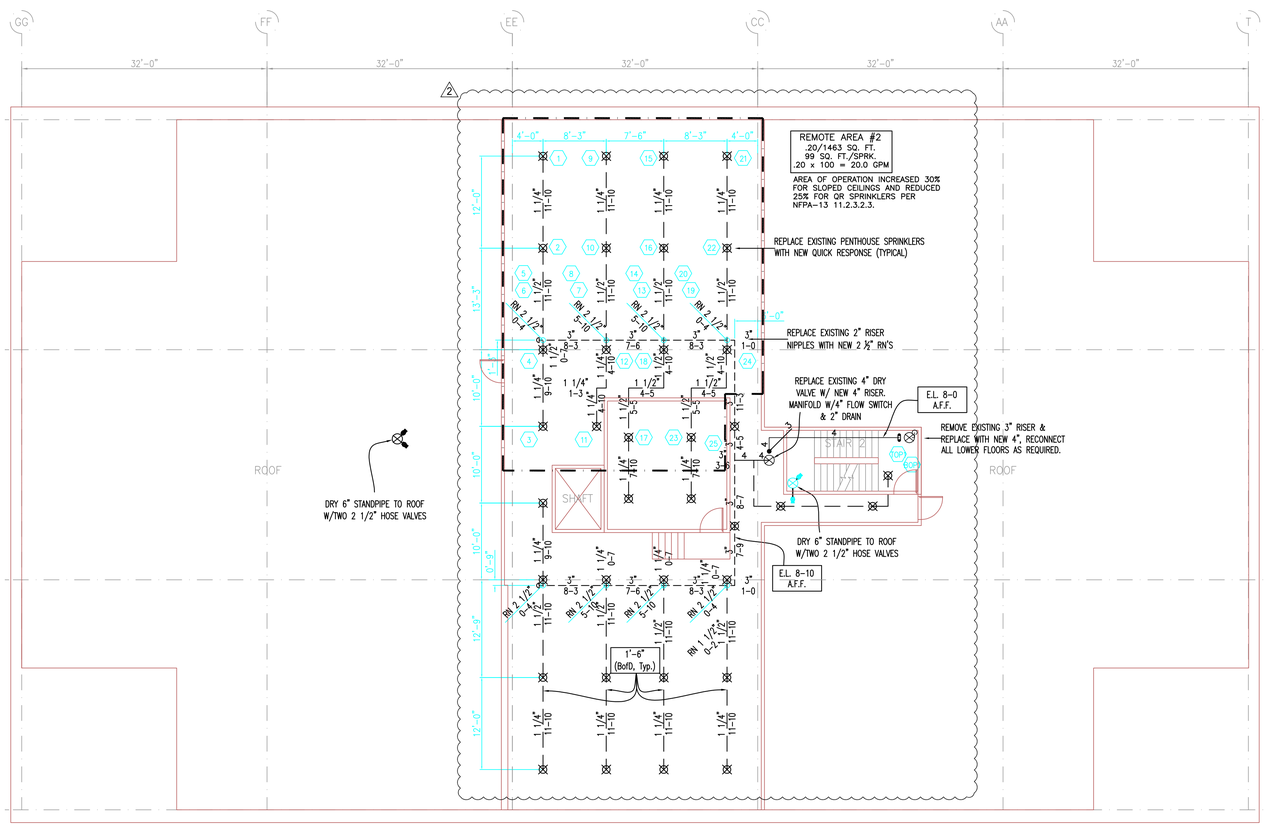


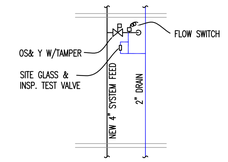

## FIRE SPRINKLER HEAD LEGEND

| | SYMBOL | THREAD | MAKE | MODEL | SIN# | STYLE | ORIFICE | FINISH | TEMP. | K-FACTOR | QUANTITY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING | ● | 1/2" | - | - | - | - | 1/2" | - | 212° | - | 98 |
| | ⊠ | 1/2" | TYCO | TY-FRB | TY3131 | UPRIGHT | 1/2" | BRASS | 200° | 5.6 | 36 |
| EXISTING | ○ | 1/2" | - | - | - | - | 1/2" | - | 200° | 5.6 | 2 |
| | | | | | | | | | | | |
| | | | | | | | | | TOTAL SPRINKLERS SHOWN ON THIS SHEET | | 134 |
| | | | | | | | | | TOTAL SPRINKLERS REQUIRED FOR THIS PROJECT | | |

## NOTE:

SCOPE OF WORK INCLUDES:

THE EXISTING SYSTEM LOCATED AT THE PENTHOUSE LEVEL IS CURRENTLY A DRY PIPE SYSTEM. McKINSTRY HAS BEEN CONTRACTED TO TO REMOVE THE EXISTING DRY PIPE VALVE AND COMPRESSOR AND REPLACE IT WITH A NEW WET PIPE VALVE. THE OWNER WILL SUPPLY A NEW HEATER WITHIN THE PENTHOUSE LEVEL AS PER THE REQUIREMENTS SET FORTH BY NFPA 13.




## SPRINKLER KEY

- ● EXISTING 212° PENDENT SPRINKLER
- ○ EXISTING 212° UPRIGHT SPRINKLER
- ◁ EXISTING 212° DRY SIDEWALL SPRINKLER
- d EXISTING SPRINKLER PIPE CAP
- c EXISTING RISE
- o EXISTING RISER NIPPLE
- — — — EXISTING SPRINKLER PIPING

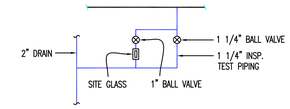
* SEE SPRINKLER LEGEND FOR SPECIFIC SPRINKLER TYPES *

## FLOOR RISER DETAIL

TYP, U.N.O. SCALE: NTS

ELEVATIONS:
FF: 135.0
BOD: VARIES
SLOPE: 8:12"

6 FP-LP Penthouse Level
SCALE: 1/8"=1'-0"




## INSP. TEST DETAIL

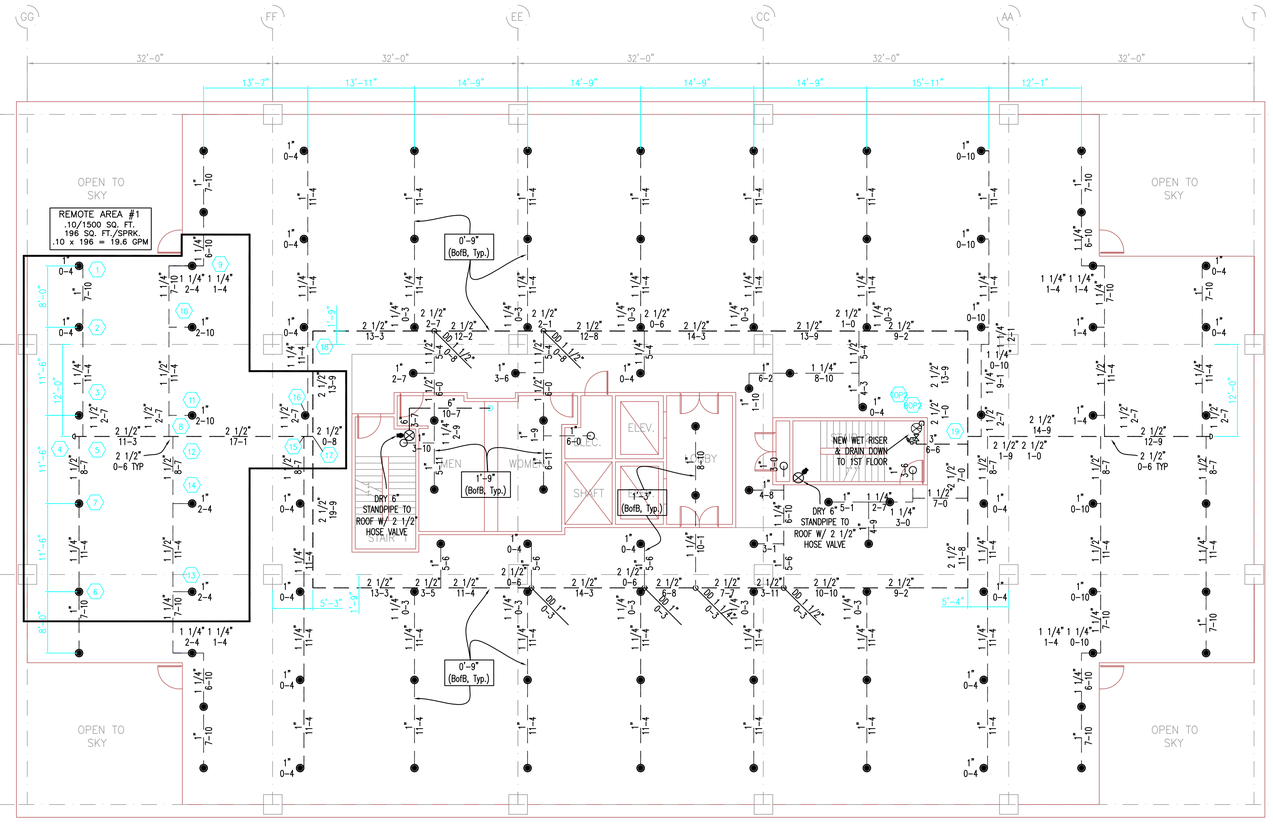
SCALE: NTS

## CALCULATION DESIGN INFORMATION

| | |
|---|---|
| AREA | AREA#1 |
| OCCUPANCY | PENTHOUSE |
| HAZARD | ORD.-HAZARD-GROUP-2 |
| DENSITY | .20-GPM/SQ.-FT. |
| AREA OF OPERATION | 1,463-SQ.FT. |
| AREA PER HEAD | 99/SQ.-FT. |
| HOSE WATER ALLOWANCE | |
| INSIDE 0 | OUTSIDE 250 |

### SYSTEM DEMAND

| | |
|---|---|
| PSI | 73.8 |
| GPM | 360.3 |
| PSI AVAILABLE | 78.9 |
| GPM AVAILABLE | 360.3 |




## CALCULATION DESIGN INFORMATION

| | |
|---|---|
| AREA | AREA#2 |
| OCCUPANCY | 5TH/FL.-OFFICE |
| HAZARD | LIGHT/HAZARD |
| DENSITY | .10-GPM/SQ.FT. |
| AREA OF OPERATION | 1,500-SQ.FT. |
| AREA PER HEAD | 196/SQ.FT. |
| HOSE WATER ALLOWANCE | |
| INSIDE 0 | OUTSIDE 100 |

### SYSTEM DEMAND

| | |
|---|---|
| PSI | 74.3 |
| GPM | 239.8 |
| PSI AVAILABLE | 84.1 |
| GPM AVAILABLE | 239.8 |

Must Remain On Site

ELEVATIONS:

| | |
|---|---|
| FF: | 122.5 |
| BOB: | 122.0 |
| BOU: | 120.0 |
| DR CLG: | 92.5 |
| CLG MAIN: | 91.5 |
| CLG SL: | 92.5 |

5 FP-L5 Level 5
SCALE: 1/8"=1'-0"

## NOTE:

SCOPE OF WORK INCLUDES:

McKINSTRY SHALL REMOVE EXISTING FIRE PUMP UNIT AND EXISTING 3-INCH RISER THAT FEEDS THE COMBINED FIRE SPRINKLER SYSTEM. McKINSTRY SHALL INSTALL A NEW 4-INCH RISER AND RE-CONNECT ALL SECTIONAL CONTROL VALVES LOCATED AT EACH LEVEL. THE EXISTING WATER SUPPLY IS CAPABLE OF SUPPLYING ALL FLOORS WITH ADEQUATE FIRE PROTECTION, AS PER NFPA 13 AND THE CITY OF KIRKLAND FIRE DEPARTMENT. HYDRAULIC CALCULATIONS HAVE BEEN PROVIDED AS A MEAN OF PROVING THAT THE CITY WATER SUPPLY IS SUFFICIENT AND A RELIABLE SOURCE FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM(s) FOR THIS BUILDING. THESE DRAWINGS (AS-BUILTS) HAVE BEEN PROVIDED TO INDICATE THE SCOPE OF WORK REQUIRED FOR PERMIT AND INSTALLATION OF THE NEW RISER.

KIRKLAND FIRE Lt. Chappell 04/26/2016 ΜΟΛΩΝ ΛΑΒΕ


McKinstry FIRE PROTECTION

SEATTLE:
5005 3RD AVE SOUTH
SEATTLE, WA. 98124
(206) 762 - 3311

PORTLAND:
16790 NE MASON STREET, SUITE 100
PORTLAND, OR 97230
(503) 331 - 0234
LICENSE # MCKINCL942DW
LICENSE # 172811


PROJECT:

# KIRKLAND PARKPLACE
## BUILDING "D"

6TH & CENTRAL
KIRKLAND, WA
98033

REGISTRATION:

WASHINGTON STATE
CERTIFICATE OF COMPENTENCY
FIRE PROTECTION SPRINKLER SYSTEMS
J. Scott Spitzer, Sr.
5763-1094-C Level 3
McKinstry Company, L.L.C.
MCKINCL942DW
Jon Scott Spitzer
Signature
Expires 12/31/16

REVISIONS:

| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | 1-13-16 | PERMIT SET |
| 2 | 1-22-16 | PERMIT SET REVISION |

McKINSTRY DIVISION:

FIRE PROTECTION

DESIGNED BY: GM
DRAWN BY: TW
CHECKED BY: SS
JOB NUMBER: 105854-001
DATE: 3-7-2016
SCALE: 1/8" = 1'-0"

SHEET TITLE:

KIRKLAND PARKPLACE LEVEL 5 & PENTHOUSE

SHEET NUMBER:

SPRINKLER PLAN FP-L5, LPENT