

IF SPRINKLER CONTRACTOR USES PLASTIC PIPING THEN THE FOLLOWING IS APPLICABLE.

NOTE: CONTRACTOR TO INSTALL PLASTIC PIPING AS PER MANUFACTURE'S SPECIFICATIONS INCLUDING EXPANSION LOOP.

O.B.C. SECTION 3.2.5.14 COMBUSTIBLE SPRINKLER PIPING

- COMBUSTIBLE SPRINKLER PIPING SHALL BE USED ONLY FOR WET SYSTEMS IN RESIDENTIAL OCCUPANCIES AND OTHER LIGHT OCCUPANCIES. (SEE APPENDIX A.)
- COMBUSTIBLE SPRINKLER PIPING SHALL MEET THE REQUIREMENTS OF ULC/ORD-199P-M, "COMBUSTIBLE PIPING FOR SPRINKLER SYSTEMS".
- COMBUSTIBLE SPRINKLER PIPING SHALL BE SEPARATED FROM THE AREA SERVED BY THE SPRINKLER SYSTEM AND FROM ANY OTHER FIRE COMPARTMENT BY CEILINGS, WALLS, OR SOFFITS CONSISTING AS A MINIMUM,
 - LATH AND PLASTER,
 - GYPSUM BOARD NOT LESS THAN 9.5 MM (3/8 IN) THICK
 - PLYWOOD NOT LESS THAN 13 MM (1/2 IN) THICK OR
 - A SUSPENDED MEMBRANE CEILING WITH
 - STEEL SUSPENSION GRID, AND
 - LAY-IN PANELS OR TILES HAVING A MASS NOT LESS THAN 1.7 KG/SQUARE METRE (0.35 LB/SQUARE FOOT)
- IF COMBUSTIBLE SPRINKLER PIPING IS LOCATED ABOVE A CEILING, AN OPENING THROUGH THE CEILING THAT IS NOT PROTECTED IN CONFORMANCE WITH SENTENCE (3) SHALL BE LOCATED SO THAT THE DISTANCE BETWEEN THE EDGE OF THE OPENING AND THE NEAREST SPRINKLER IS NOT MORE THAN 300 MM (11 3/4").
- THE PROTECTION REQUIRED BY SENTENCES (3) AND (4) IS PERMITTED TO BE WAIVED WHERE COMBUSTIBLE SPRINKLER PIPING HAS BEEN TESTED IN CONFORMANCE WITH ULC/ORD-C199P-M, "COMBUSTIBLE PIPING FOR SPRINKLER SYSTEMS", AND HAS BEEN SHOWN TO MEET THE REQUIREMENTS IN THAT DOCUMENT WITHOUT ADDITIONAL PROTECTION.

GENERAL NOTES

NOTE 1:
IN BUILDINGS SPRINKLERED IN ACCORDANCE WITH NFPA 13, CLOSETS LESS THAN 12 SQ.FT. IN AREA IN INDIVIDUAL DWELLING UNITS SHALL NOT BE REQUIRED TO BE SPRINKLERED. CLOSETS THAT CONTAIN EQUIPMENT SUCH AS WASHERS, DRYERS, FURNACES, OR WATER HEATERS SHALL BE SPRINKLERED REGARDLESS OF SIZE.
AS PER NFPA-13 (2007) CLAUSE 21.20.19.2.1

NOTE 2:
SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS THAT ARE LOCATED WITHIN DWELLING UNITS, THAT DO NOT EXCEED 95 SQ.FT. IN AREA AND THAT HAVE WALLS AND CEILINGS OF NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS WITH A 15-MINUTE THERMAL BARRIER RATING, INCLUDING THE WALLS AND CEILINGS BEHIND ANY SHOWER ENCLOSURE OR TUB.
AS PER NFPA-13 (2007) CLAUSE 8.15.8.1.1

NOTE 3:
WHERE SIDEWALL SPRINKLER IS INSTALLED AT SOFFIT (BULKHEAD) EXCEEDING MORE THAN 6" IN WIDTH, PENDENT SPRINKLERS SHALL BE INSTALLED UNDER THE SOFFIT (BULKHEAD).

NOTE 4:
RESIDENTIAL SIDEWALL SPRINKLERS SHALL BE PERMITTED TO BE INSTALLED IN THE FACE OF A SOFFIT LOCATED DIRECTLY OVER CABINETS WITHOUT REQUIRING ADDITIONAL SPRINKLERS BELOW THE SOFFIT OR CABINETS WHERE THE SOFFIT DOES NOT PROJECT HORIZONTALLY MORE THAN 12" FROM THE WALL.

NOTE 5:
IF CPVC PIPE IS USED, CONTRACTOR TO PROVIDE "EXPANSION OFFSET LOOP" ON STRAIGHT RUNS EXCEEDING 100 FT IN LENGTH.

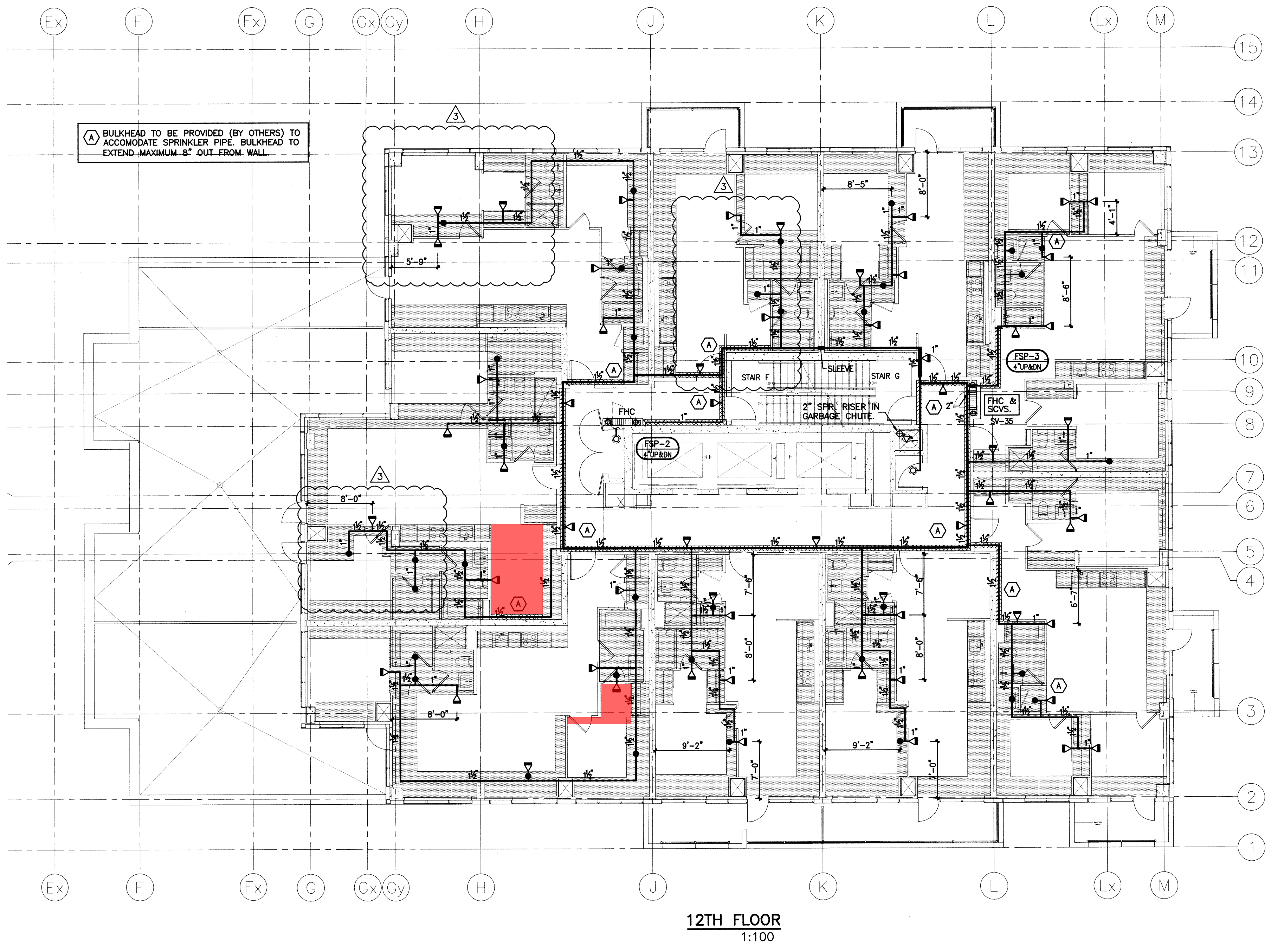
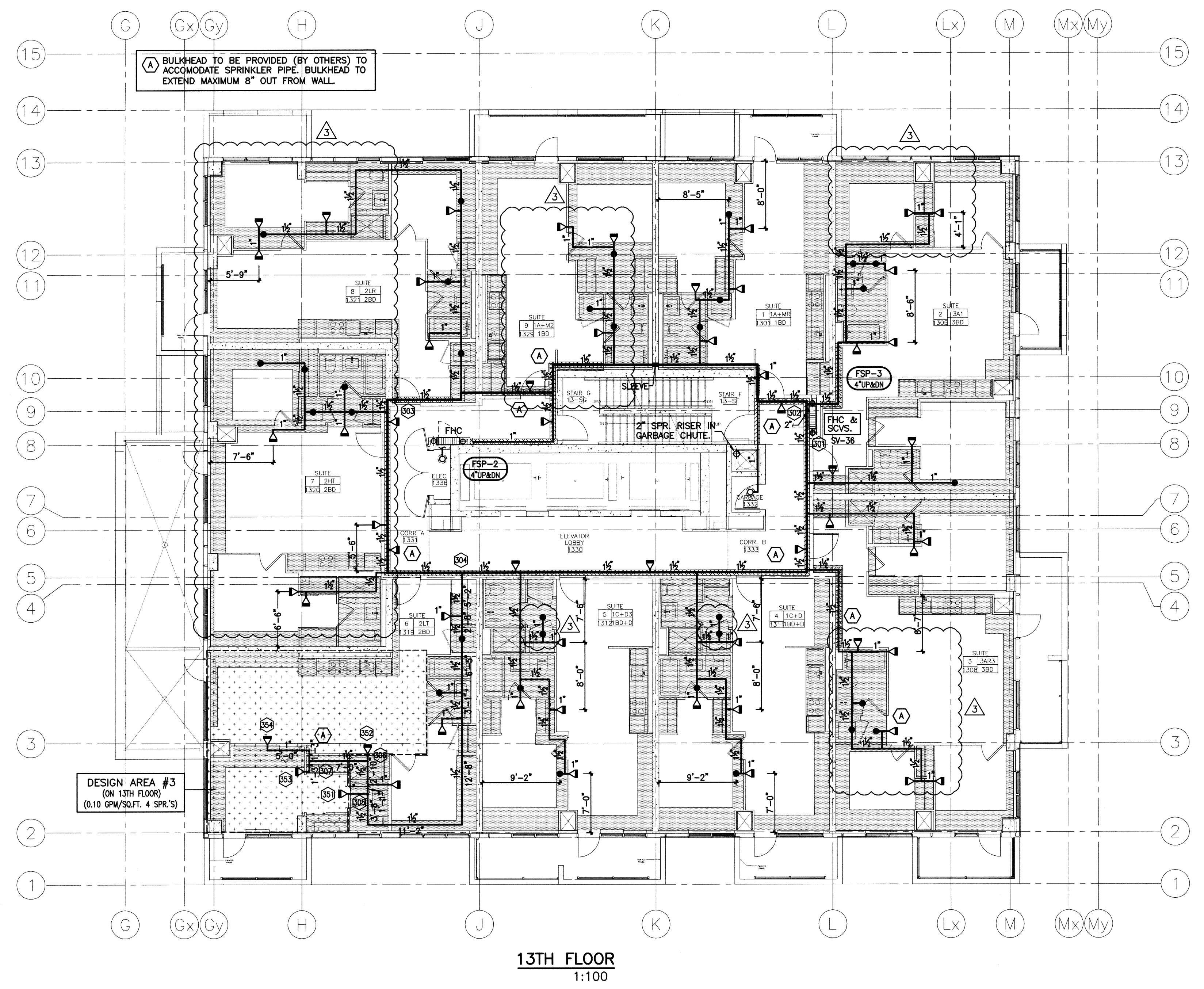
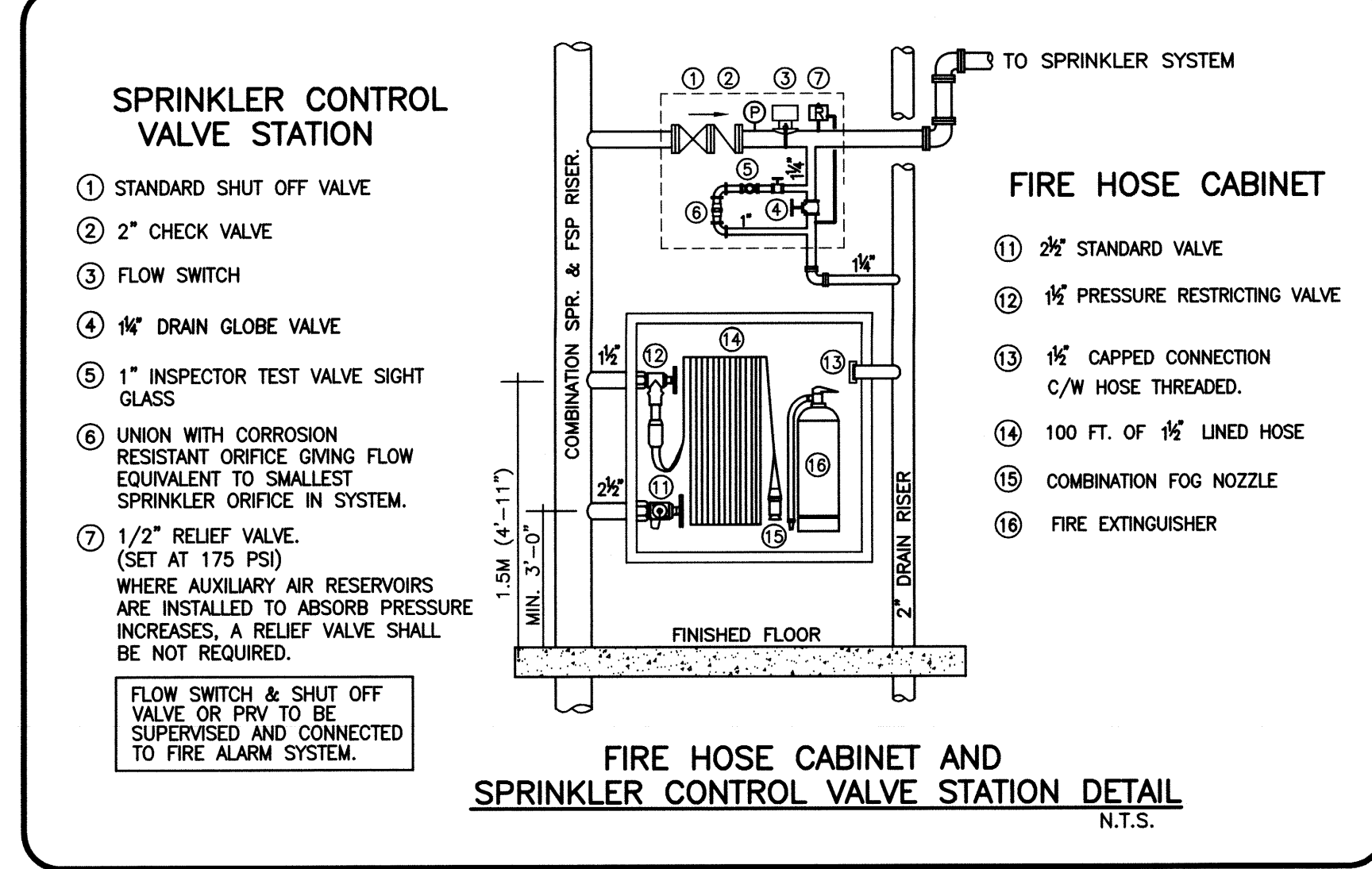
NOTE 6:
ANY FIRE STOPPING, ACOUSTIC SEALANT AND MATERIALS USED IN THIS PROJECT WHICH COME IN CONTACT WITH CPVC SPRINKLER PIPING IS TO BE COMPATIBLE WITH CPVC PIPING.

NOTE 7:
SPRINKLERS TO BE A MINIMUM 3'-0" FROM EDGE OF ALL SURFACE MOUNTED LIGHT FIXTURE.

SPRINKLER LAYOUT BASED ON BULKHEADS BEING MAXIMUM 12" DEEP. ADDITIONAL SIDEWALL SPRINKLERS MAY BE REQUIRED IF BULKHEAD DEPTH EXCEEDS 12".

PROTECTION AREA PER RESIDENTIAL CONCEALED PENDENT SPRINKLER SHALL NOT EXCEED 300 SQ.FT. MAX. SPACING IS 20 FT. PROTECTION AREA PER RESIDENTIAL CONCEALED SIDEWALL SPRINKLER SHALL NOT EXCEED 256 SQ.FT. (16 FT. X 16 FT.)

CONTRACTOR SHALL COORDINATE WITH LIGHTING, DIFFUSER & INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION OF SPRINKLER SYSTEM.



| REVISIONS | DATE |
|---|--------------|
| 1. ISSUED FOR REVIEW & PERMIT. | JULY 30 2014 |
| 2. RE-ISSUED FOR PERMIT. | AUG. 15 2014 |
| 3. REVISED LAYOUT AS PER TEEPLE ARCHITECTS COMMENTS DATED IN JUNIOR. 2015 | JUN. 08 2015 |

NOTES

--- THIS DRAWING ASSOCIATED CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF THE DESIGNER AND MUST BE RETURNED AT THE COMPLETION OF THE WORK OR UPON REQUEST.

--- THE SPRINKLER SYSTEM IS TO BE INSTALLED AS PER N.F.P.A. STANDARDS 13 AND O.B.C. STANDARDS.

--- CONTRACTOR TO PROVIDE FOR OFFSETS IN BRANCH LINES AND MAINS WHERE REQUIRED.

--- ALL MATERIALS TO BE U.L.C. LISTED AND APPROVED BY LOCAL AUTHORITIES.

--- UNDRERUNNING WATERMAN TO BE INSTALLED ACCORDING TO LOCAL CODES AND INSURANCE CO. REQUIREMENTS.

--- CONTRACTOR TO VISIT SITE TO DETERMINE EXACT LOCATION AND ELEVATION OF MAINS (IF AVAILABLE) AS NOTED ON DRAWINGS. ANY MAJOR DISCREPANCIES TO BE REPORTED TO THE DESIGNER PRIOR TO FABRICATION AND INSTALLATION.

--- ALL INTERIOR GRID BRANCH LINE MEASUREMENTS ARE GIVEN AS CENTER LINE TO CENTER LINE DIMENSIONS. (C/C TO C/C)

--- ALL OTHER BRANCH LINE MEASUREMENTS ARE GIVEN AS CENTER LINE TO CENTER LINE (C/C TO C/C) OR CENTER LINE TO FACE (C/C TO FACE) DIMENSIONS. (THIS WALL PIPE) DIMENSIONS IN INCHES FROM CENTER LINE OF PIPE TO UNDERSIDE OF CEILING.

--- RN DENOTES RISER NIPPLE ON DENOTES DOWN.

--- ALL SUPERVISED VALVES (LOW PRESSURE) SWITCHES AND LOW PRESSURE MONITORING SWITCHES TO BE CONNECTED TO FIRE ALARM SYSTEM (AS IS REQUIRED).

--- CONTRACTOR TO VISIT SITE TO DETERMINE EXACT LOCATION AND ELEVATION OF MAINS (IF AVAILABLE) AS NOTED ON DRAWINGS. ANY MAJOR DISCREPANCIES TO BE REPORTED TO THE DESIGNER PRIOR TO FABRICATION AND INSTALLATION.

OWNER (OR OTHERS) TO PROVIDE ADEQUATE HEAT IN ALL AREAS OF BUILDING SUBJECT TO FREEZING THAT ARE PROTECTED BY A WET TYPE SPRINKLER SYSTEM.

ALL GLASS BUILD TYPE SPRINKLERS TO BE OF RECENT ISSUE. MANUFACTURE DATE OF AT LEAST YEAR 2013.

| S/R=STANDARD RESPONSE Q/R=QUICK RESPONSE C/W GUARD | DESCRIPTION | QUANTITY |
|--|---|----------|
| 1 | 1/2" 155F STANDARD COVERAGE CONCEALED PENDENT (K=5.6) Q/R | 00 |
| 2 | 1/2" 155F STANDARD COVERAGE UPRIGHT (K=5.6) Q/R | 00 |
| 3 | 1/2" 155F RESIDENTIAL CONCEALED PENDENT (K=4.4) | 00 |
| 4 | 1/2" 155F RESIDENTIAL CONCEALED SIDEWALL (K=4.0) | 00 |
| 5 | FIRE HOSE RACK - 100 FT OF 1/2" LINED HOSE C/W COMBINATION FOG NOZZLE | 00 |

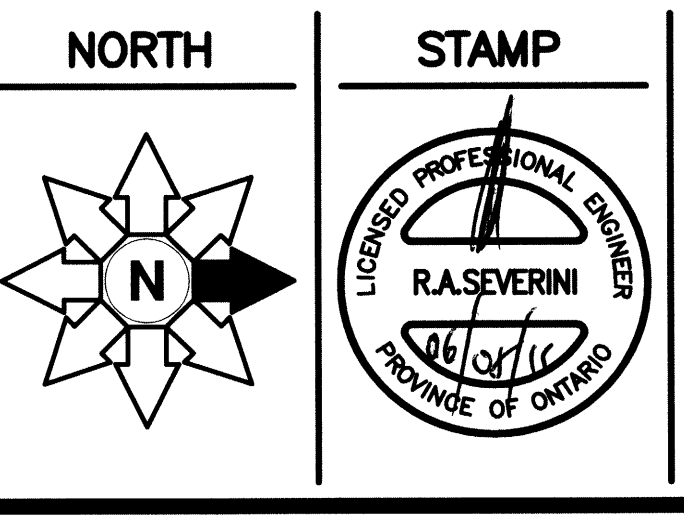
DESIGN CRITERIA

DESIGNED FOR RESIDENTIAL SPRINKLERS AS PER NFPA 13 SECTION 11.3.1 (2010 ED.).

DESIGN AREA TO INCLUDE THE FOUR ADJACENT SPRINKLERS THAT PRODUCE THE GREATEST HYDRAULIC DEMAND.

THE REQUIRED DISCHARGE FROM EACH SPRINKLER SHALL BE THE GREATER OF THE FOLLOWING:

- MIN. FLOW RATES INDICATED IN SPR. LISTING.
- MIN. 0.10 GPM/SQ.FT. OVER DESIGN AREA.



PROJECT

SQ ALEXANDRA PARK
BLOCK 11
38 CAMERON ST. TORONTO

DWG TITLE

12TH & 13TH FLOOR
SPRINKLER & STANDPIPE SYSTEM

| DATE | SCALE | DWN BY | ISSUED FOR REVISION NO. | PROJECT NO. | DWG NO. |
|-----------|-------|--------|-------------------------|-------------|---------|
| JULY 2014 | 1:100 | H.W. | | 14-10224 | SP-15 |
| | | | | | OF 16 |