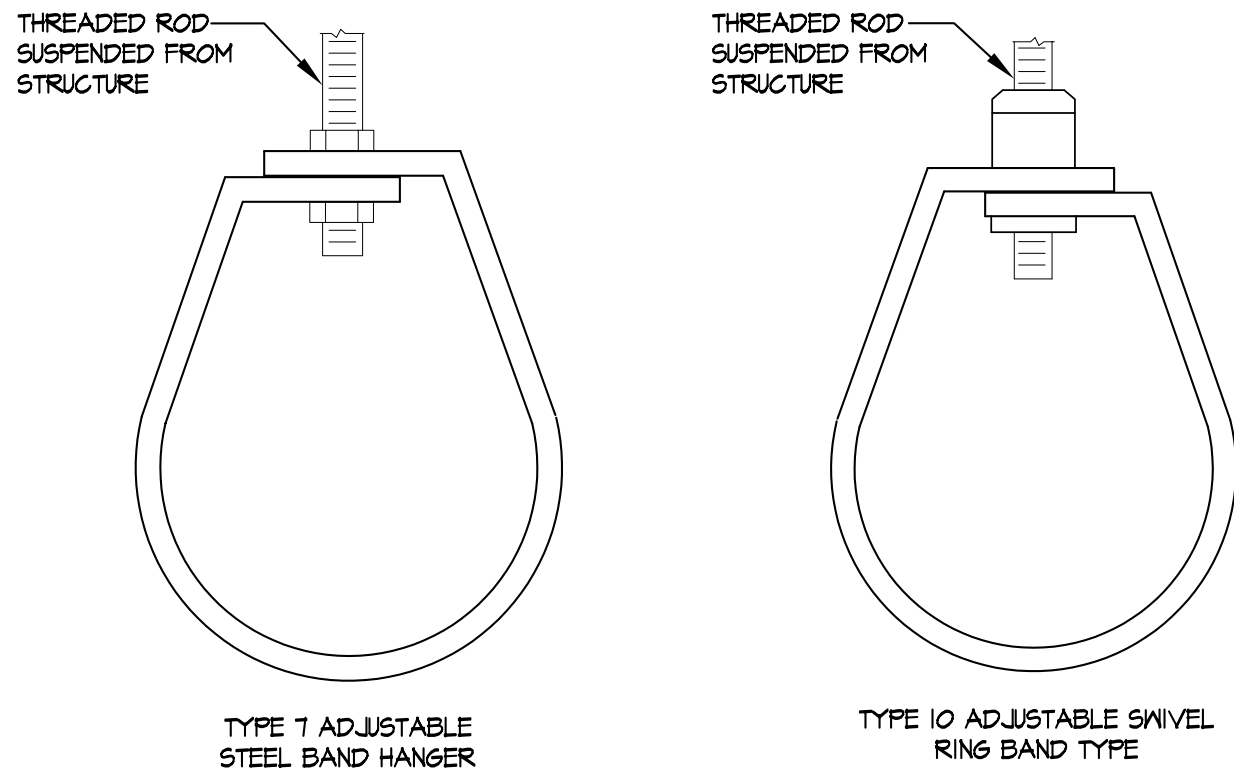


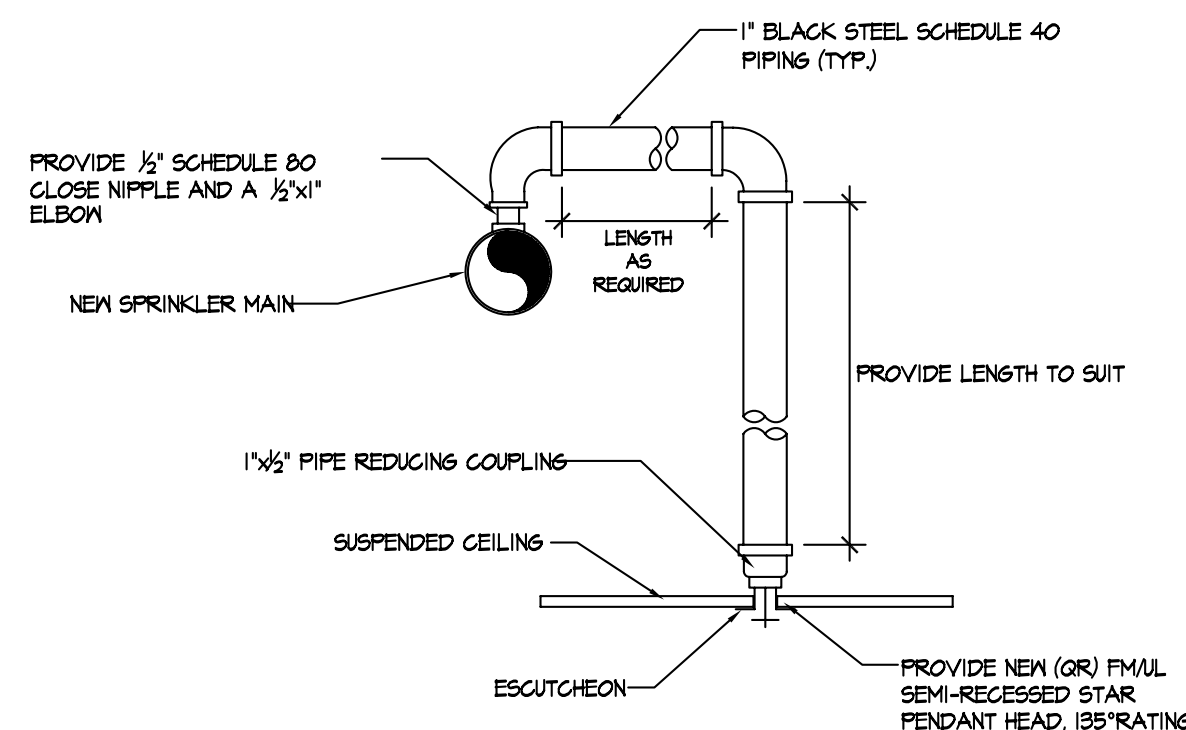
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot

PIPE SIZE	MAX. HANGER SUPPORT SPACING (FT)
	SCH 40
1"	12'-0"
1 1/4"	12'-0"
1 1/2"	15'-0"
2"	15'-0"
2 1/2"	15'-0"
3"	15'-0"
4"	15'-0"



1 Pipe Hanger Details

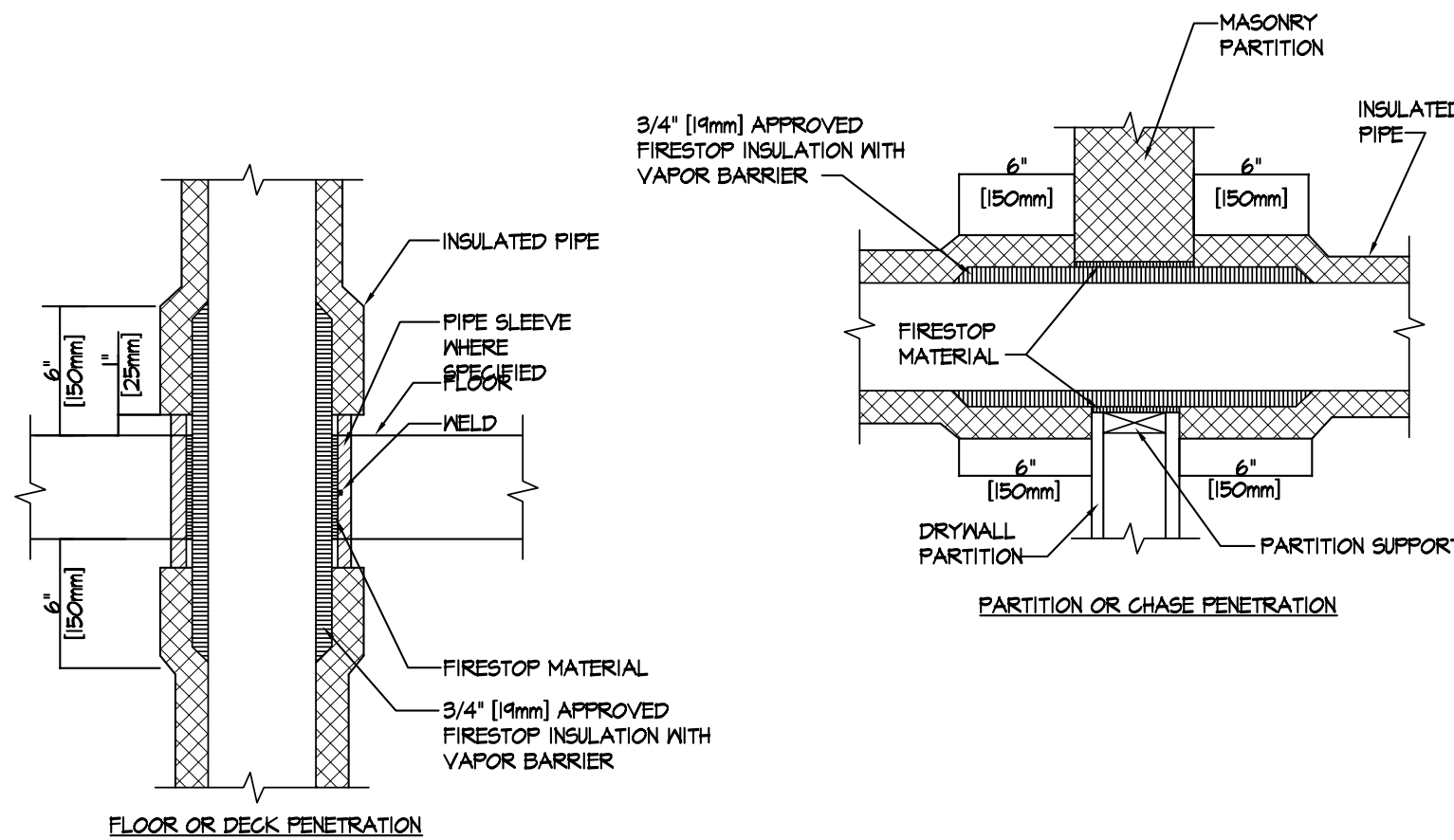
Not To Scale



- NOTES:
- ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24".
 - ALL NEW PENDENT HEADS SHALL BE FM APPROVED, SEMI-RECESSED, QUICK RESPONSE TYPE.

2 Pipe Hanger Details

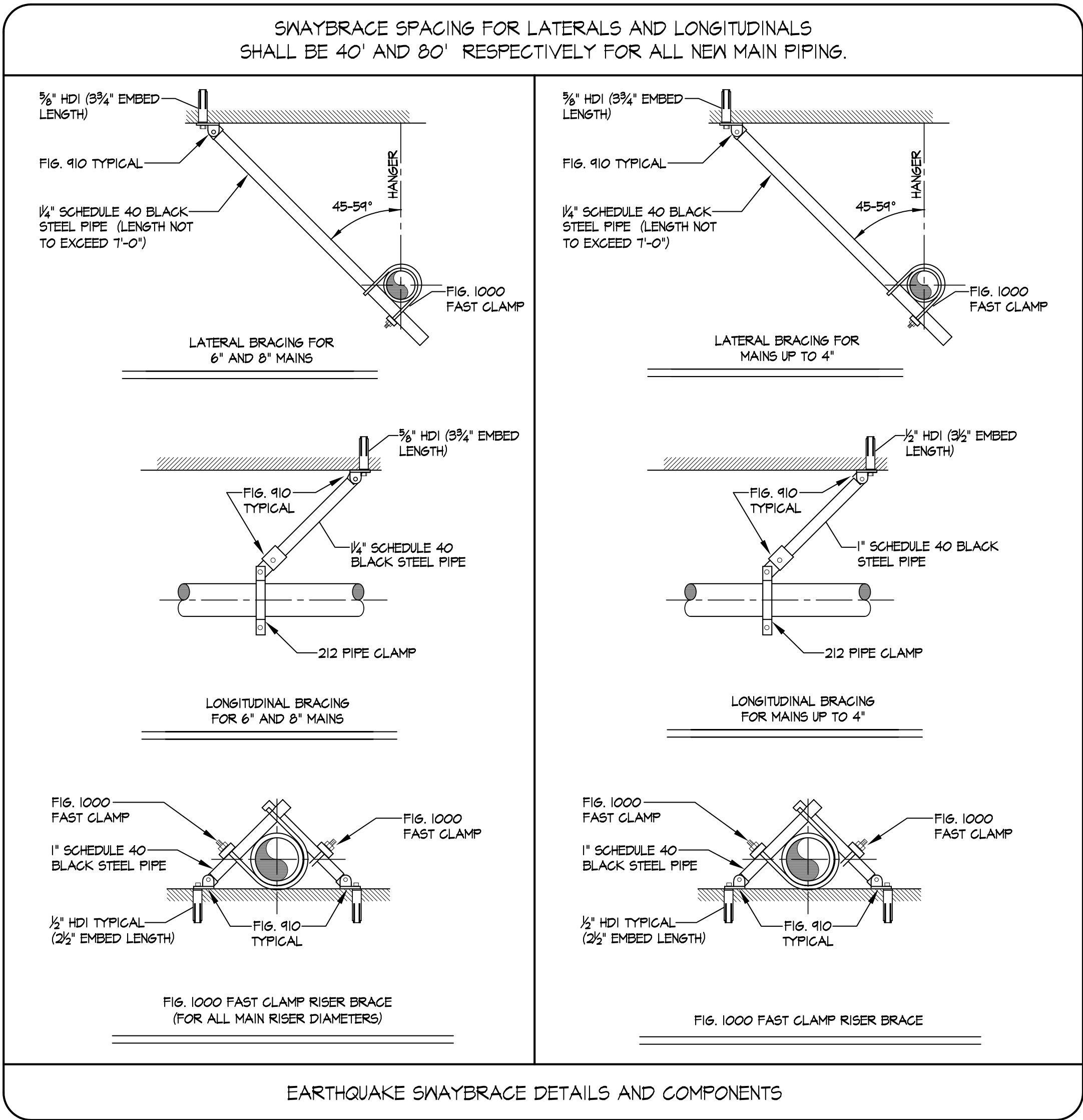
Not To Scale



3 Pipe Penetration of Smoke/Fire Barriers

Not To Scale

- NOTE:
- APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 01 84 00, FIRE STOPPING SYSTEMS. PENETRATION MUST BE SEALED TO PROVIDE A 2-HOUR RATING.



SWAYBRACE LOAD CALCULATIONS						
PIPE SIZE	BRACE SIZE	BRACE SPACING		ASSIGNED LOAD (lbs.) MULTIPLYING FACTOR = .8	NFPA #13 TABLE 4-6.4.3.5.3 BRACE TYPE	ATTACHMENT TYPE IV MAX. LOAD VALUE (lbs.)
		LAT	LONG			
8"	1 1/2" SCH. 40	30'-0"	60'-0"	2196	TYPE 'B'	3/8" BOLT = 2897
6"	1 1/4" SCH. 40	40'-0"	80'-0"	2088	TYPE 'B'	3/8" BOLT = 2897
4"	1" SCH. 40	40'-0"	80'-0"	1942	TYPE 'B'	1/2" BOLT = 1782
3"	1" SCH. 40	40'-0"	80'-0"	1804	TYPE 'B'	1/2" BOLT = 1782
2 1/2"	1" SCH. 40	40'-0"	80'-0"	1256	TYPE 'B'	1/2" BOLT = 1782

3 Seismic Pipe Bracing Details

Not To Scale

100% SET/ISSUE	07-14-2011
100% SET/ISSUE	06-13-2011
100% SET/ISSUED FOR REVIEW	05-27-2011
REVISED 30% SUBMISSION	03-04-2011
REVISED SIGN OFF	02-24-2011
30% REVIEW SET	11-11-2010
SCHEME 1, 2 AND 3	09-11-2010
EXISTING CONDITIONS	09-01-2010
Revisions:	Date

CONSULTANTS:

LJM ENGINEERING GROUP

439 Route 46 East
Rockaway, New Jersey 07866

Phone: (973) 586-3004 Fax: (973) 586-3009
E-Mail: office@ljmengineering.com Job No. 10092



ARCHITECT:

Lothrop associates^{LLP} architects

200 SUMMIT LAKE DRIVE, VALHALLA, NEW YORK 914-741-1115

Drawing Title
**THIRD FLOOR - EAST
SPRINKLER NOTES & DETAILS**

Approved: Project Director

Project Title
**RADIOLOGY - CT
AT BROOKLYN CAMPUS
NEW YORK HARBOR
HEALTH CARE SYSTEM**

Location
BROOKLYN, NY

L/A PROJECT # 1284-00
Date 11-11-2010

Checked
LJM

Drawn
BW

Project Number
630A4-COI-103

Building Number
1

Drawing Number
10-25-34

FX 201

Dwg. 21 of 45

**Facilities
Management
Services**

