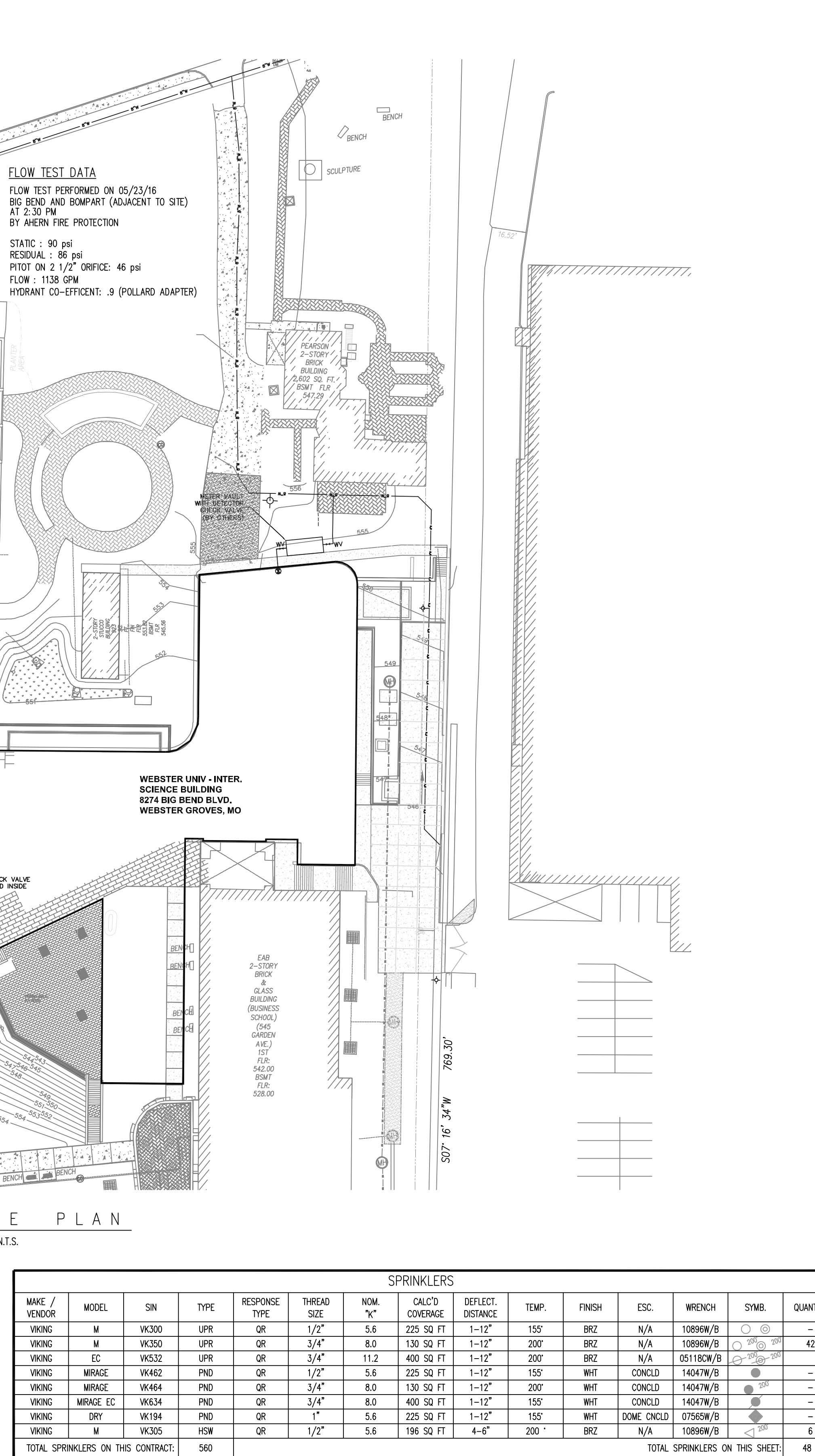
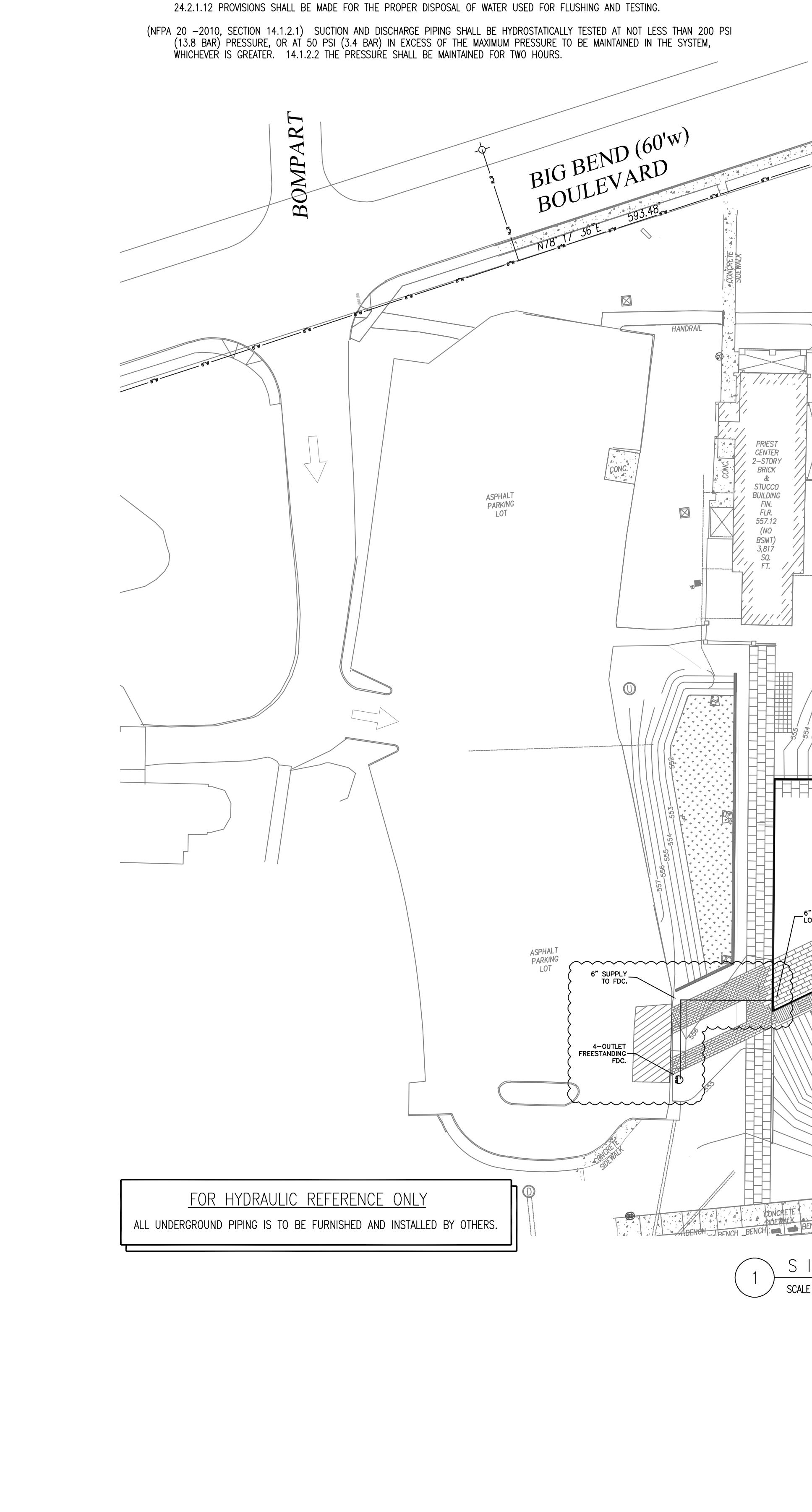
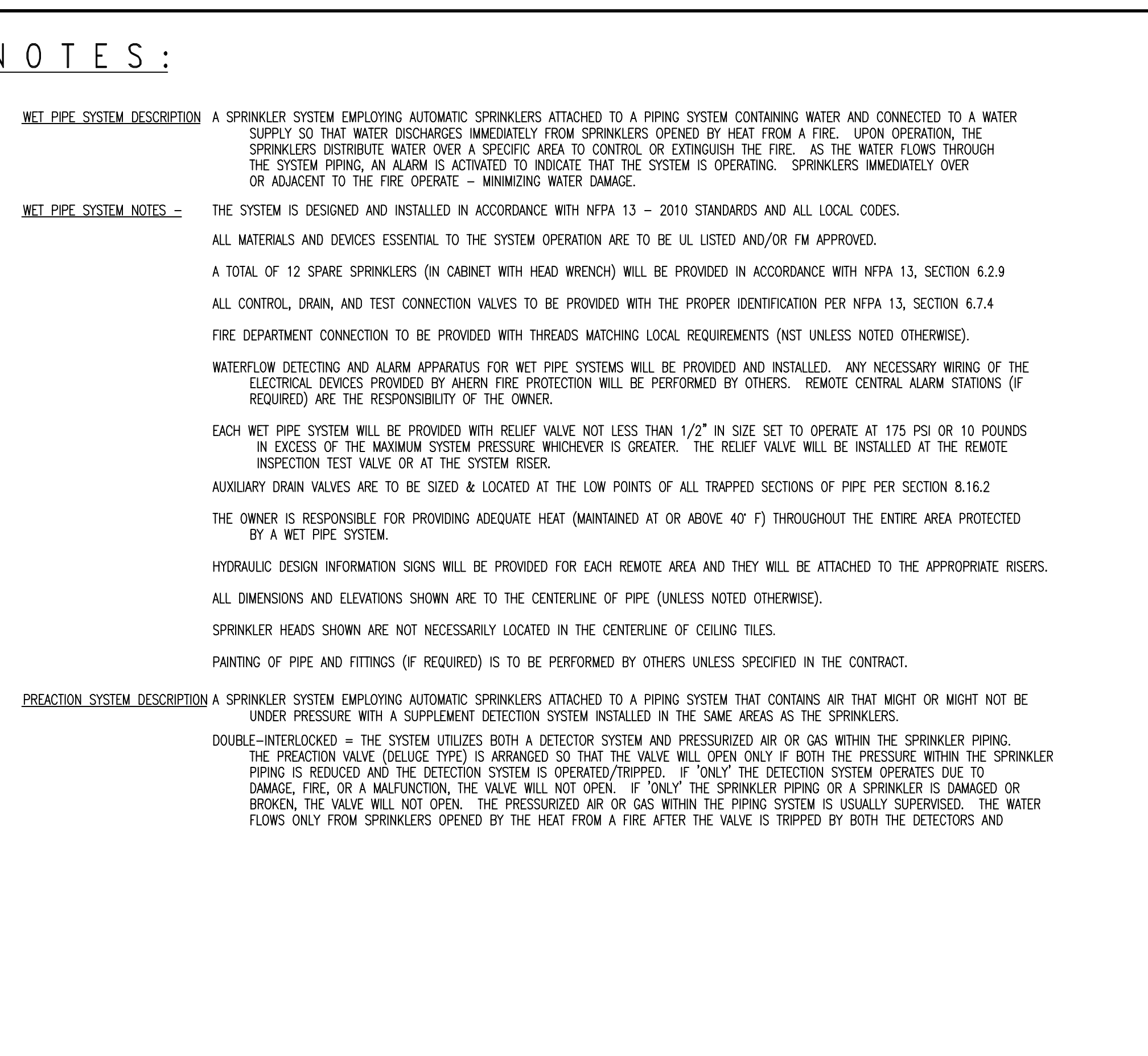
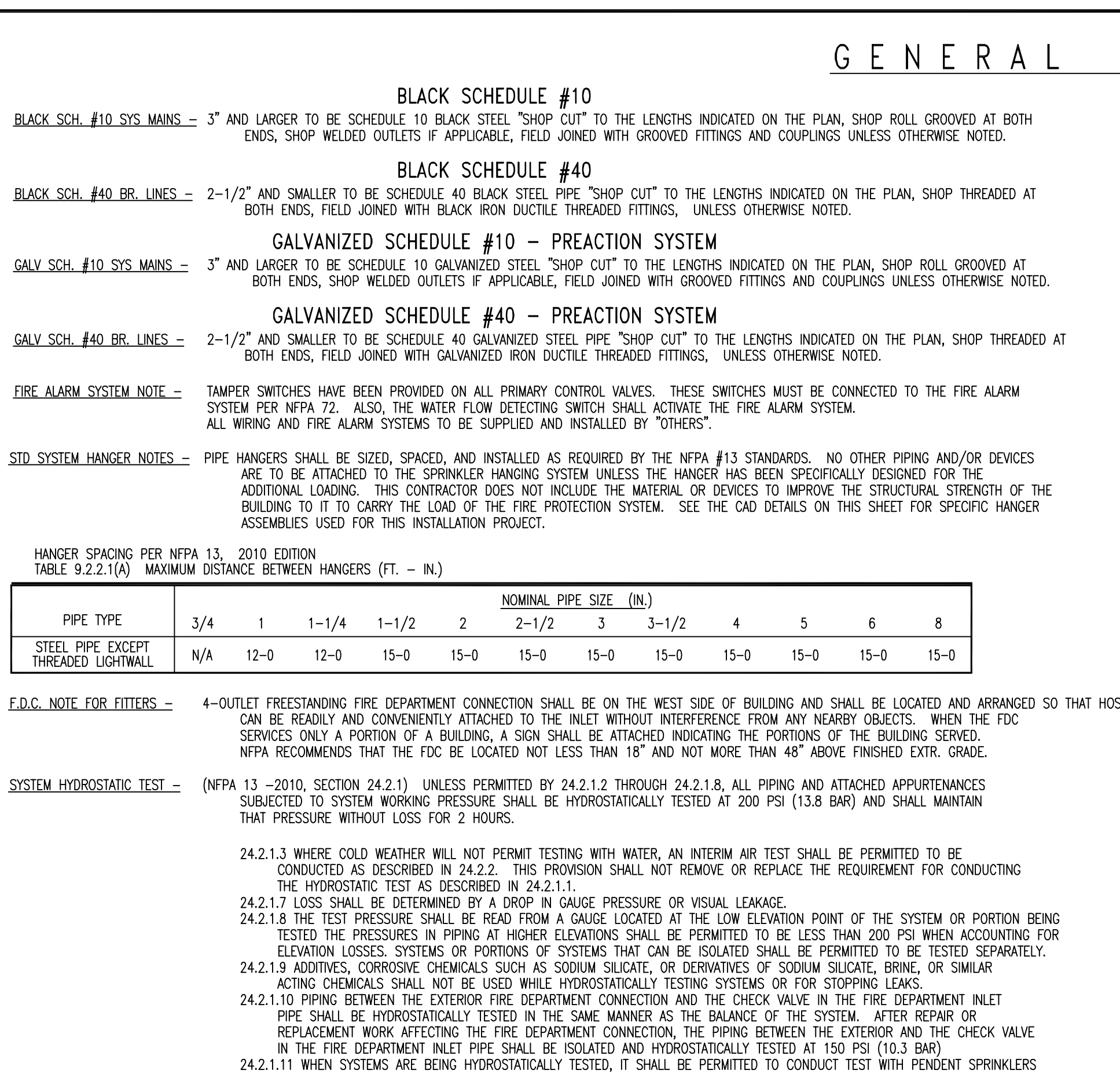
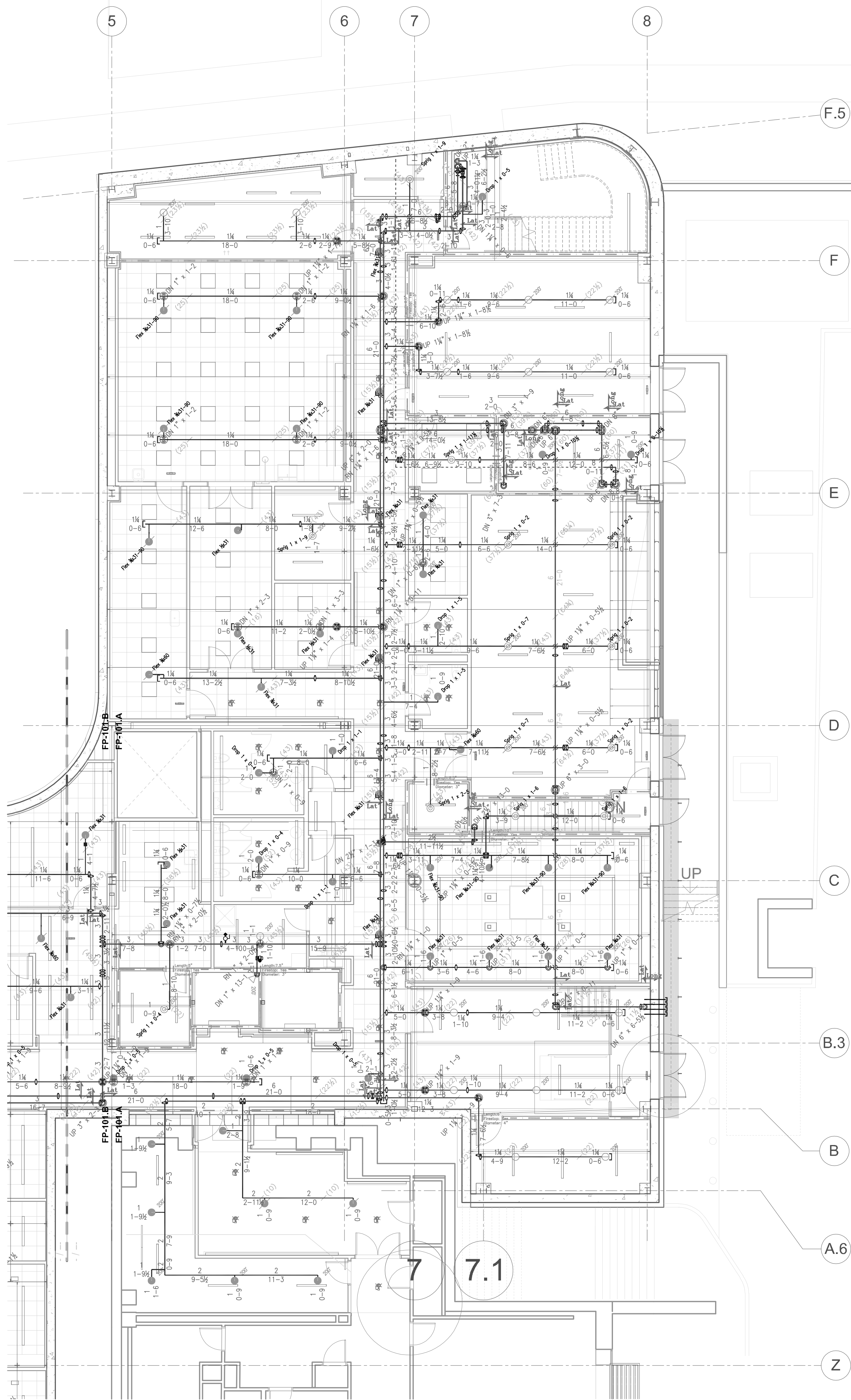
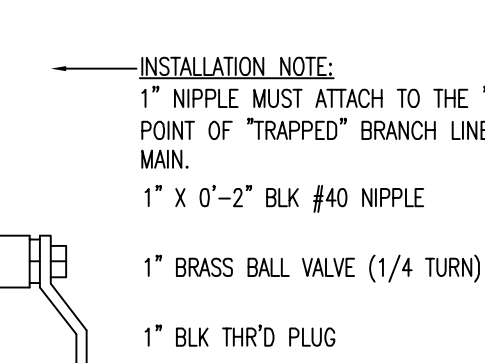
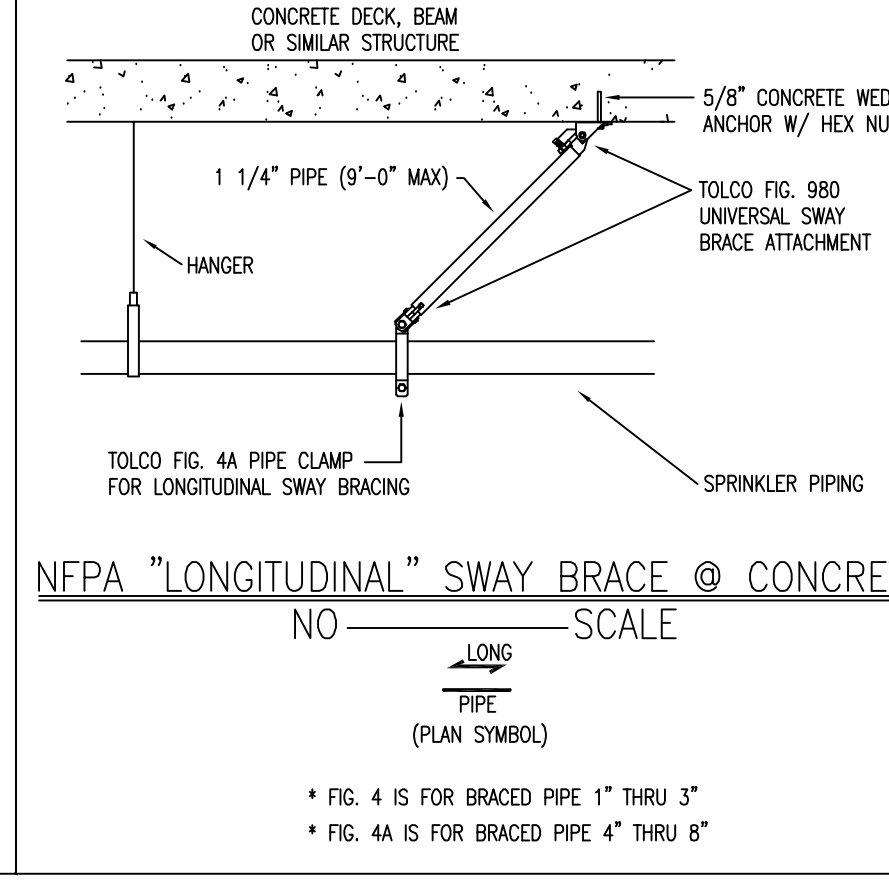
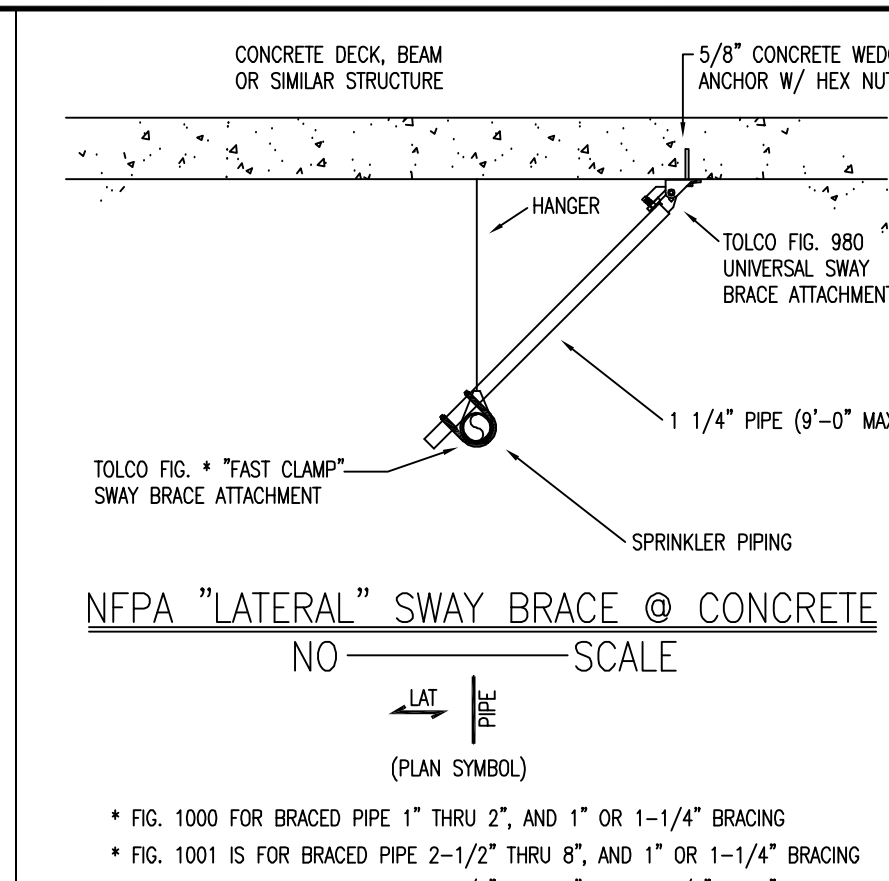
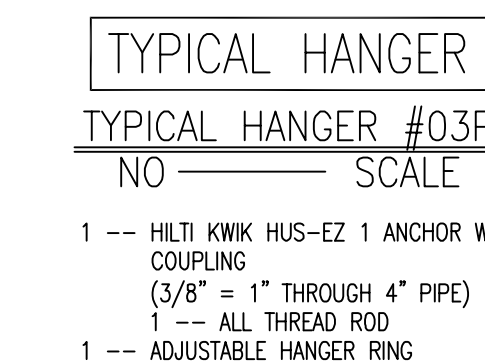
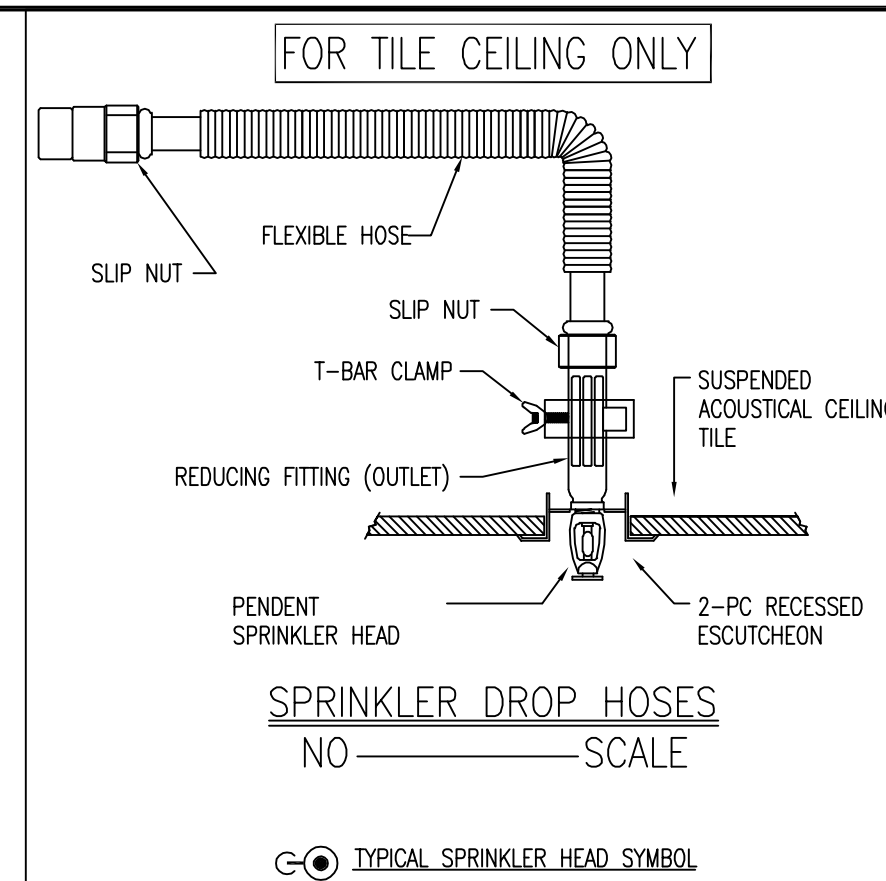




"AS-BUILTS" 08-01—2017										
	08/05/16 FM SCOPE REVIEW									
	10/26/16 POINT SET									
	11/16/16 INSTALLATION SET									
REV	DATE	REVISION DESCRIPTION								
		REVISION HISTORY								
AUTOMATIC SPREADSHEET DESIGN BASED ON THE FOLLOWING NFPA STANDARDS:										
☒ NFPA 13 — 2010 ☐ NFPA 13 R— 2002 ☐ NFPA 13 R— 2002	☐ NFPA 14 — 2003 ☐ NFPA 20 — 2003 ☐ OTHER									
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KEYPLAN										
WEBSTER UNIV - INTER. SCIENCE BUILDING 8274 BIG BEND BLVD. WEBSTER GROVES, MO										
FIRE PROTECTION PLAN - LEVEL 0										
<table style="width: 100%; font-size: x-small;"> <tr> <td style="width: 20%;">DRAWN BY:</td> <td>DANA MITCHELL</td> </tr> <tr> <td>PROJECT WKT:</td> <td>KURT REUTHER</td> </tr> <tr> <td>DATE:</td> <td>07/25/2016</td> </tr> <tr> <td>CONTRACT NO.:</td> <td>461259</td> </tr> </table>			DRAWN BY:	DANA MITCHELL	PROJECT WKT:	KURT REUTHER	DATE:	07/25/2016	CONTRACT NO.:	461259
DRAWN BY:	DANA MITCHELL									
PROJECT WKT:	KURT REUTHER									
DATE:	07/25/2016									
CONTRACT NO.:	461259									
CONSTRUCTION DOCUMENTS										
FP-100.A										

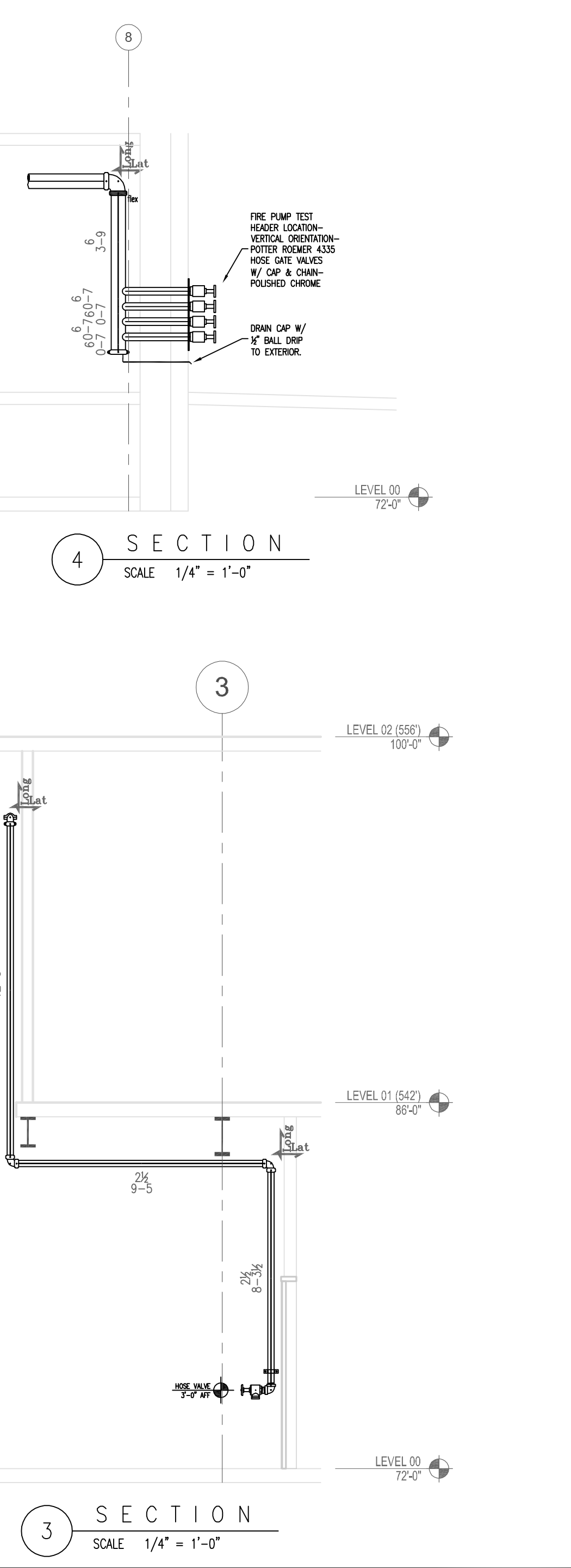
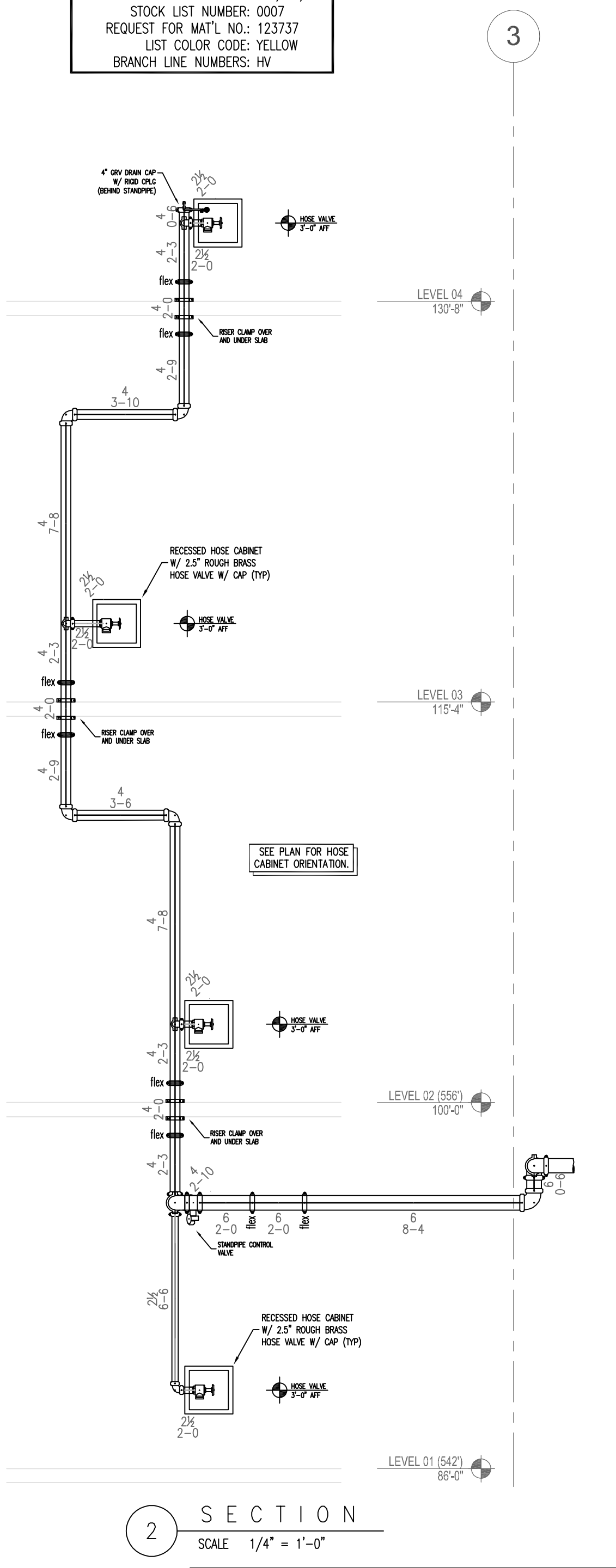
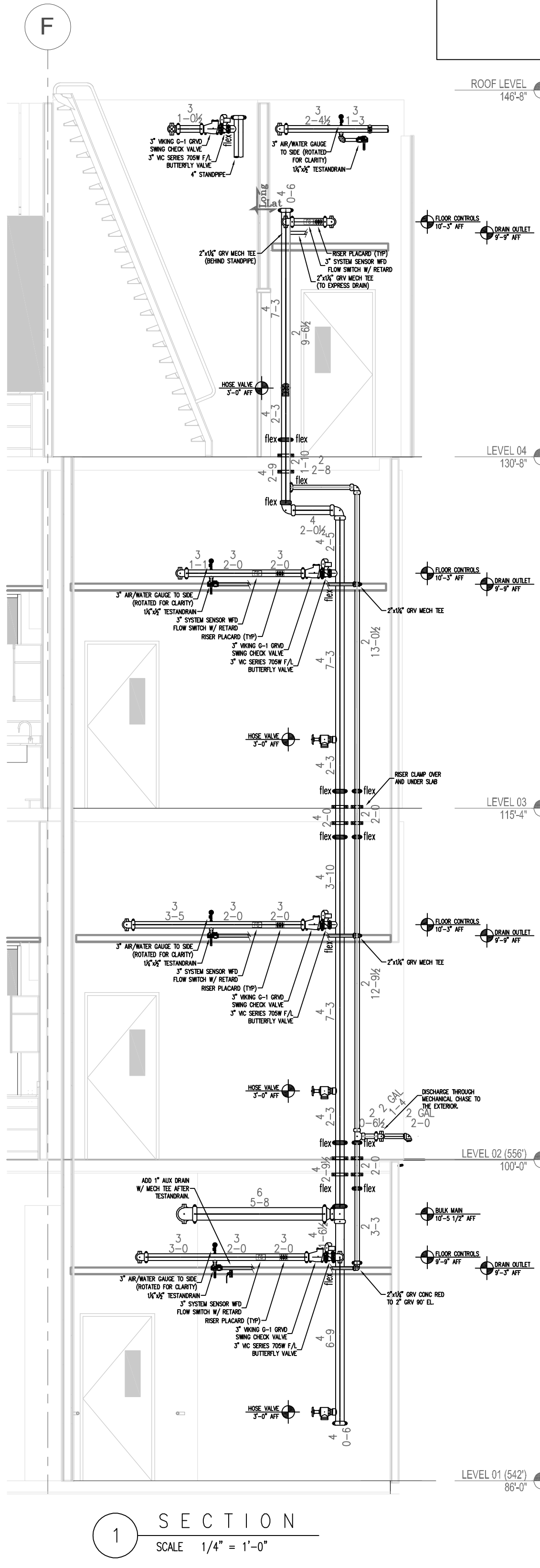


AUTOMATIC SPRINKLER SYSTEM PLAN
SCALE 1/8" = 1'-0"



STOCKLIST NOTES

PRELIST NUMBER: 1
SYSTEM MAIN LETTERS: STA,STB,XD
STOCK LIST NUMBER: 0007
REQUEST FOR MATL. NO.: 123737
LIST COLOR CODE: YELLOW
BRANCH LINE NUMBERS: HV

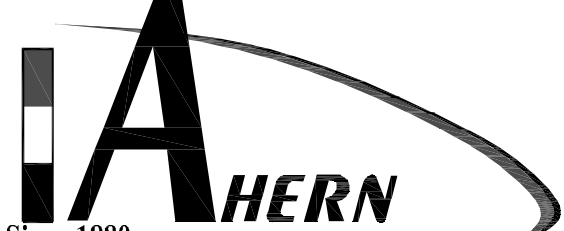


SPRINKLERS													
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "X"	CALC'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.
Viking	M	WK300	UPR	QR	1/2"	5.6	225 SQ FT	1-12"	155	BRZ	N/A	1089SW/B	○
Viking	M	WK350	UPR	QR	3/4"	8.0	130 SQ FT	1-12"	200	BRZ	N/A	1089SW/B	○
Viking	EC	WK332	UPR	QR	3/4"	11.2	400 SQ FT	1-12"	200	BRZ	N/A	05118SW/B	○
Viking	MIRAGE	WK462	PND	QR	1/2"	5.6	225 SQ FT	1-12"	155	WHI	CONCLD	14047W/B	○
Viking	MIRAGE	WK464	PND	QR	3/4"	8.0	130 SQ FT	1-12"	200	WHI	CONCLD	14047W/B	○
Viking	MIRAGE EC	WK634	PND	QR	3/4"	8.0	400 SQ FT	1-12"	155	WHI	CONCLD	14047W/B	○
Viking	DRY	WK194	PND	QR	1"	5.6	225 SQ FT	1-12"	155	WHI	DOME CNCLD	0756SW/B	○
Viking	M	WK305	HSW	QR	1/2"	5.6	196 SQ FT	4-6"	200	BRZ	N/A	1089SW/B	○
TOTAL SPRINKLERS ON THIS CONTRACT:													560
TOTAL SPRINKLERS ON THIS SHEET:													80

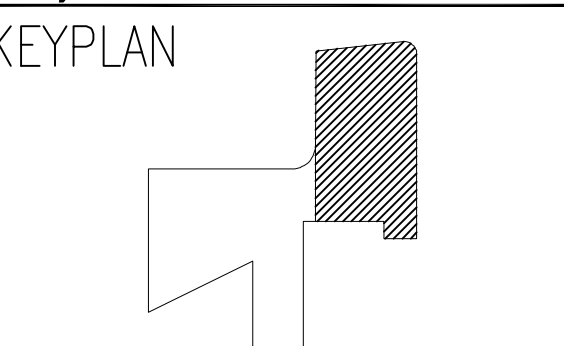
"AS-BUILTS"
08-01-2017

REV	DATE	REVISION DESCRIPTION
1	08/05/16	FW SCOPE REVIEW
2	10/26/16	PERMIT SET
3	12/2/16	INSTALLATION SET
4	12/2/16	HANGER REVISION
5	1/3/17	INSTALLATION - STANDOFFS
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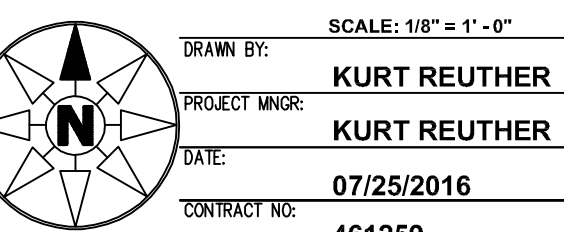


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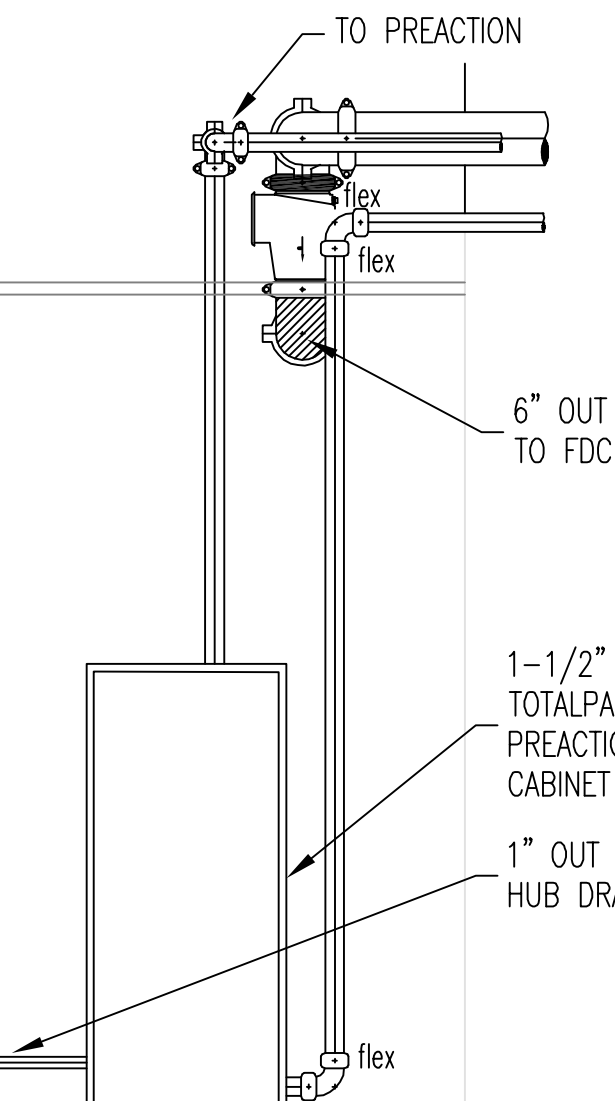


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8274 BIG BEND BLVD.
WEBSTER GROVES, MO

FIRE PROTECTION PLAN - LEVEL 1 - AREA A



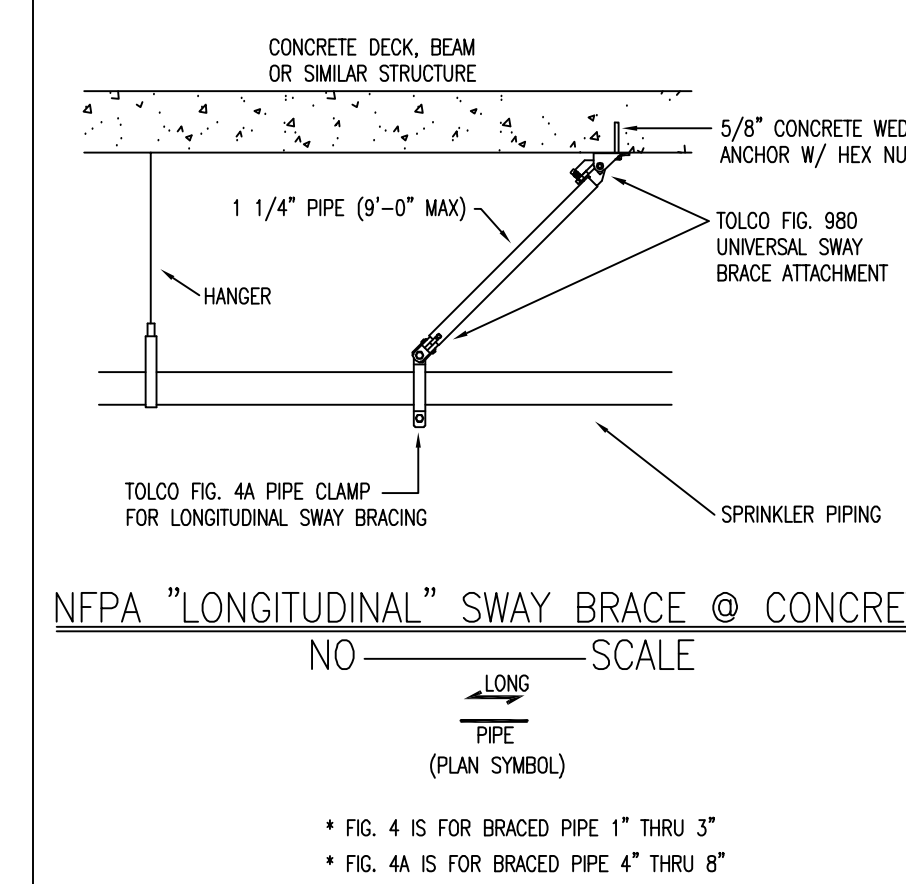
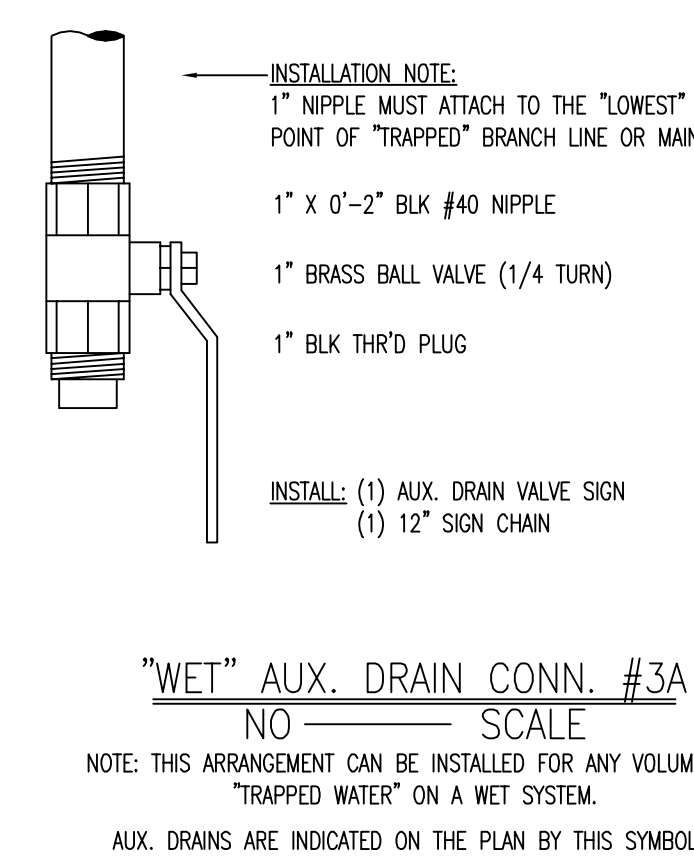
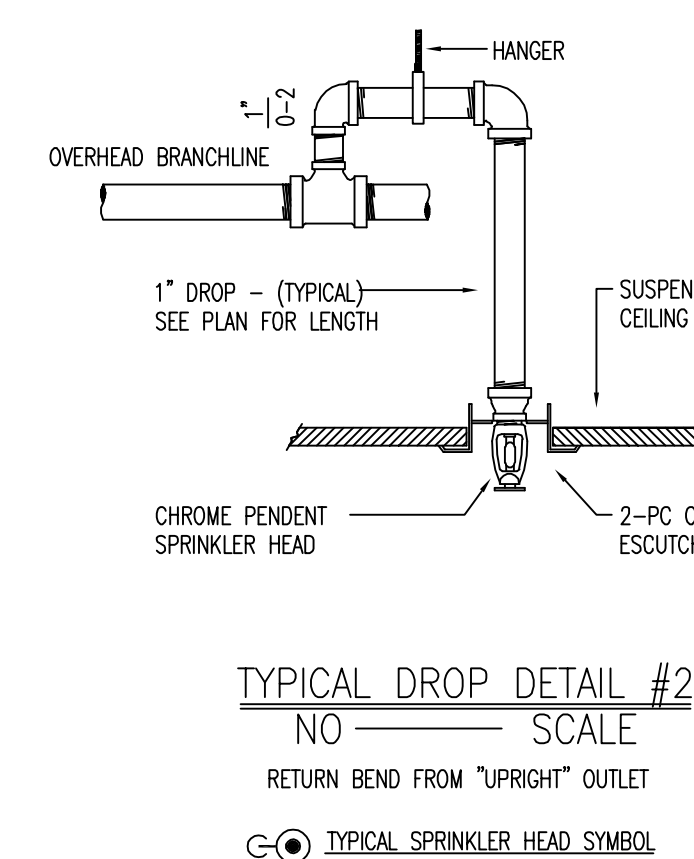
CONSTRUCTION DOCUMENTS
FP-101.A

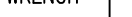


AUTOMATIC SPRINKLER SYSTEM PLAN
SCALE 1/8" = 1'-0"

SPRINKLERS														
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TIME	THREAD SIZE	NOM. V.Y.	CALCD COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.	QUANTITY
WIKING	M	W3030	UPR	QR	1/2"	5.6	225 SQ FT	1'-12"	155°	BRZ	N/A	10869W		3
WIKING	M	W4550	UPR	QR	3/4"	8.0	130 SQ FT	1'-12"	200°	BRZ	N/A	10868W		3
WIKING	EC	W6323	UPR	QR	3/4"	8.0	130 SQ FT	1'-12"	155°	BRZ	N/A	10869W		3
WIKING	MIRAGE	W4644	PND	QR	1/2"	5.6	225 SQ FT	1'-12"	155°	WHT	CONCLD	10474W		4
WIKING	MIRAGE	W4644	PND	QR	3/4"	8.0	130 SQ FT	1'-12"	200°	WHT	CONCLD	10474W		4
WIKING	MIRAGE	EC	W4644	PND	QR	3/4"	8.0	450 SQ FT	1'-12"	155°	WHT	CONCLD	10474W	4
WIKING	DRY	W1134	PND	QR	1"	5.6	225 SQ FT	1'-12"	155°	WHT	DONE	CONCLD	07369W	1
WIKING	M	W3035	HSW	HSW	1/2"	5.6	196 SQ FT	4'-6"	200°	BRZ	N/A	10869W		1
TOTAL SPRINKLERS ON THIS SHEET: 560														84
TOTAL SPRINKLERS ON THIS SHEET: 84														

FP-101.B



SPRINKLERS														
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TIME	THREAD SIZE	NOM. "K"	OMC/D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.	QUANT.
VIKING	M	VK300	UPR	GR	1/2"	5.6	225 SQ FT	1-1/2"	155°	BRZ	N/A	1089N/8		3
VIKING	M	VK360	UPR	GR	3/4"	8.0	130 SQ FT	1-1/2"	200°	BRZ	N/A	1089N/8		3
VIKING	EC	VK632	UPR	GR	3/4"	11.2	245 SQ FT	1-1/2"	200°	WHIT	CONCLD	14047N/8		13
VIKING	MIRAGE	VK462	PND	GR	3/4"	5.6	225 SQ FT	1-1/2"	155°	WHIT	CONCLD	14047N/8		3
VIKING	MIRAGE	VK464	PND	GR	3/4"	8.0	130 SQ FT	1-1/2"	200°	WHIT	CONCLD	14047N/8		3
VIKING	MIRAGE EC	VK634	PND	GR	3/4"	8.0	400 SQ FT	1-1/2"	155°	WHIT	CONCLD	14047N/8		33
RELIABLE VIKING	CS-56 DRY	BA114	PND	GR	1/2"	5.6	225 SQ FT	1-1/2"	155°	WHIT	CONCLD	1089N/8		3
VIKING	M	VK305	HSW	GR	1/2"	5.6	198 SQ FT	4-6"	200°	BRZ	N/A	1089N/8		3
TOTAL SPRINKLERS ON THIS SHEET: 560														
TOTAL SPRINKLERS ON THIS SHEET: 71														

"AS-BUILTS"
08-01-2017

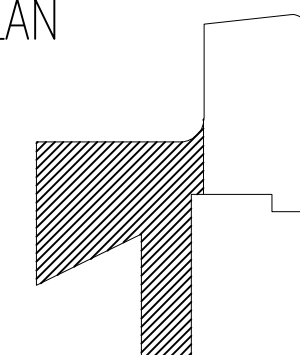
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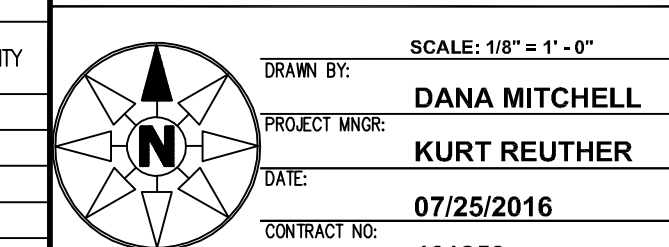
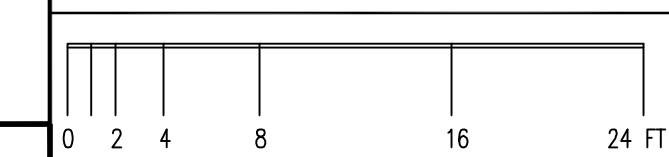
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CONTRACTORS
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KEYPLAN

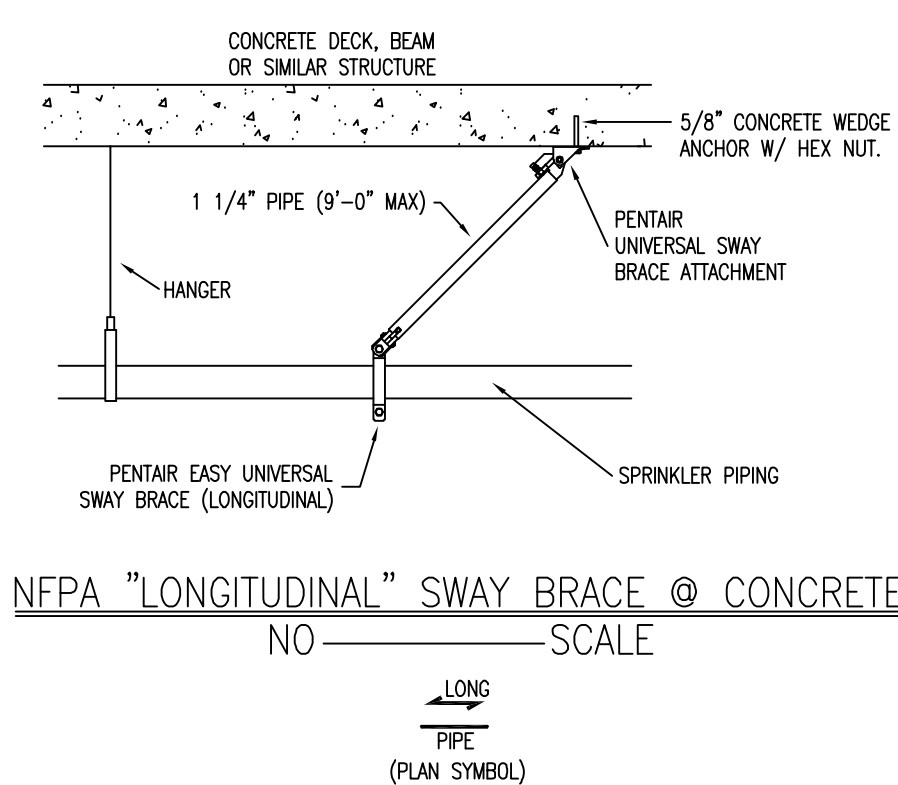
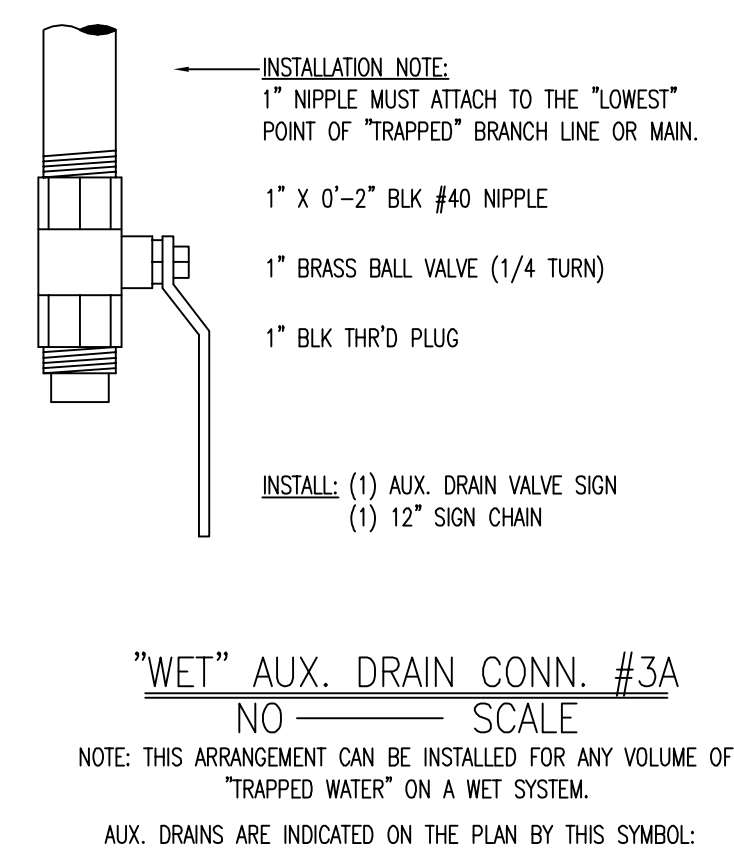
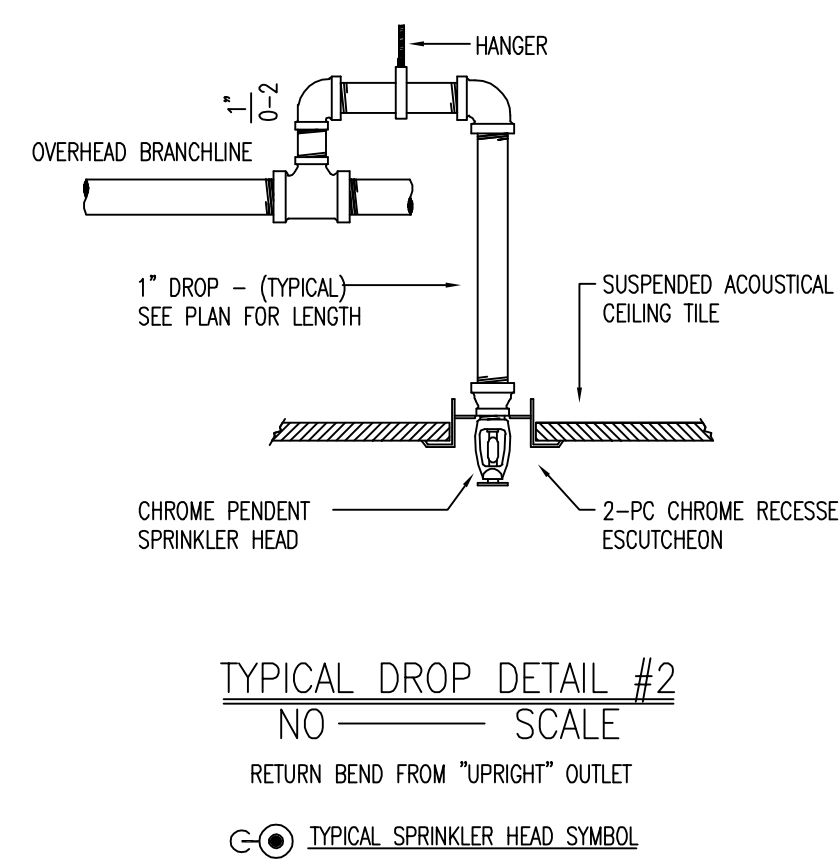


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8274 BIG BEND BLVD.
WEBSTER GROVES, MO

**FIRE PROTECTION
PLAN - LEVEL 2 -
AREA B**

46125
CONSTRUCTION DOCUMENTS

FP-102.B

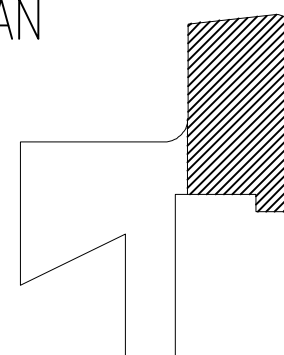
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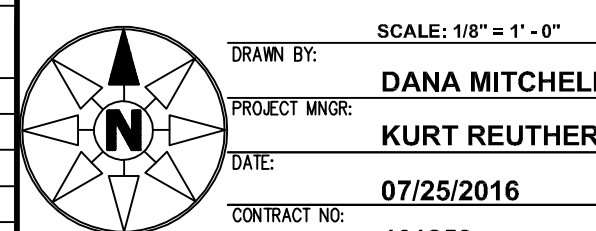
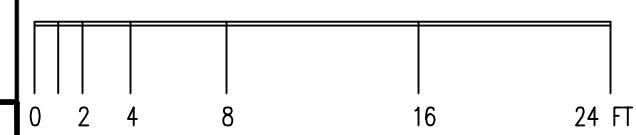
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CONTRACTORS
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KEYPLAN



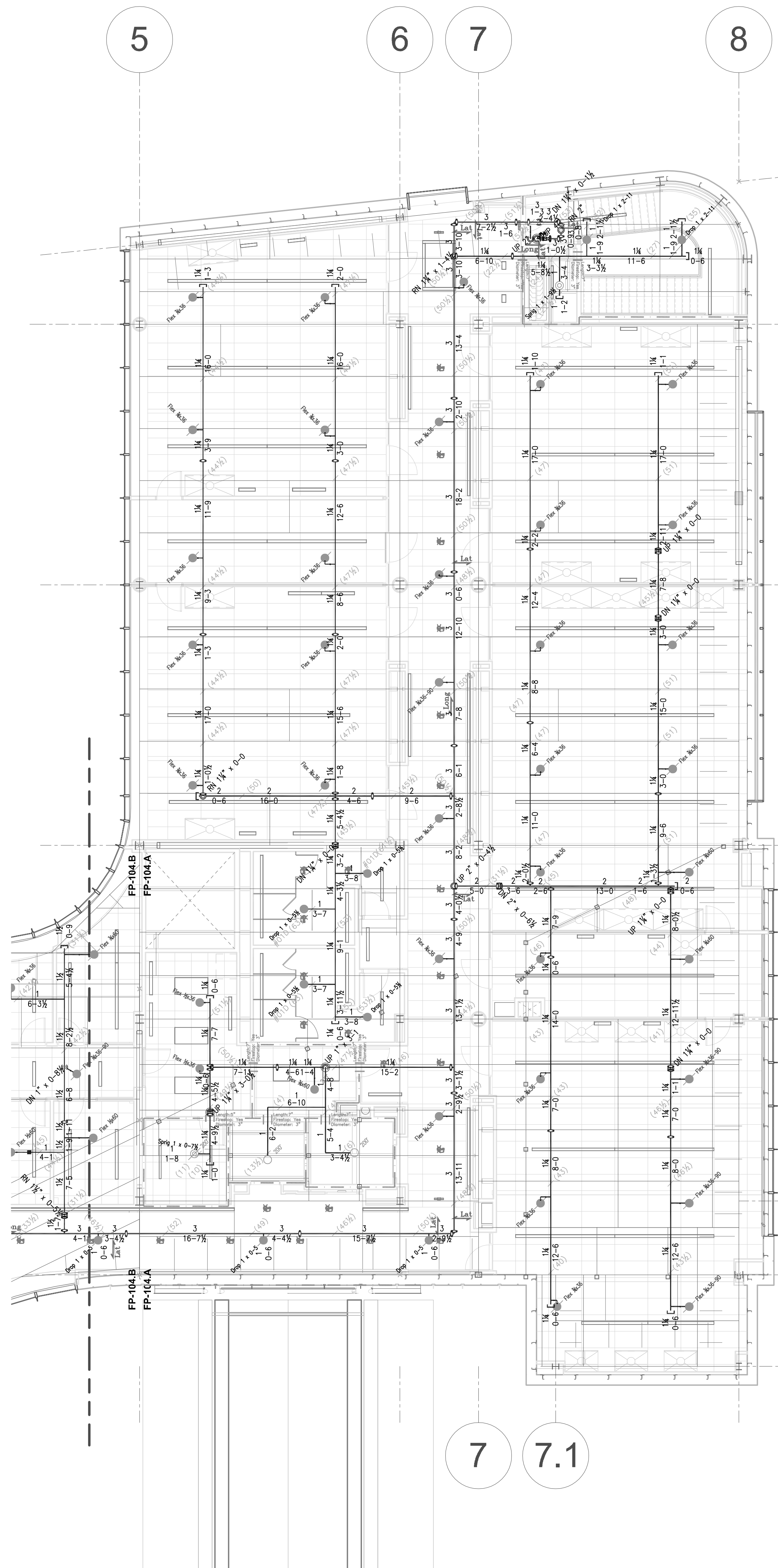
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SCIENCE BUILDING
8274 BIG BEND BLVD.
WEBSTER GROVES, MO

**FIRE PROTECTION
PLAN - LEVEL 3 -
AREA A**

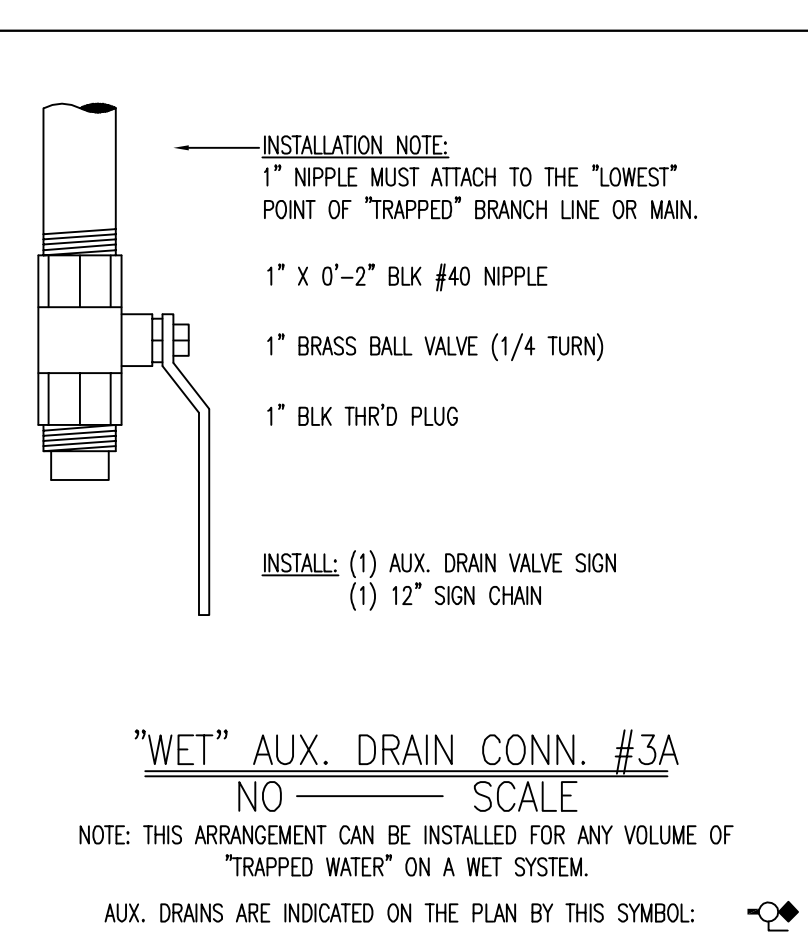
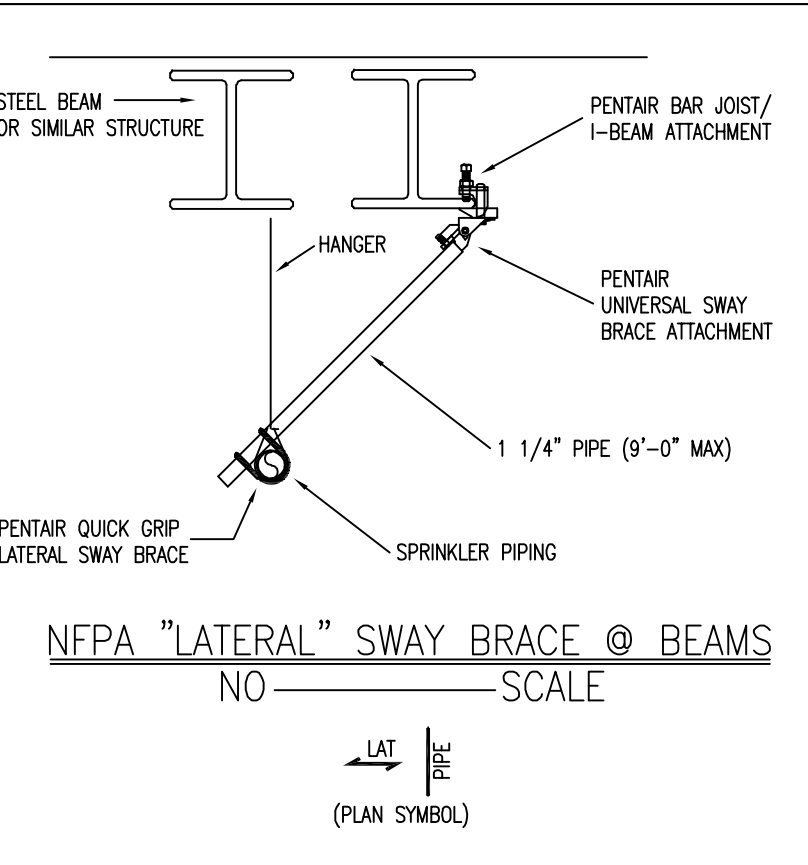
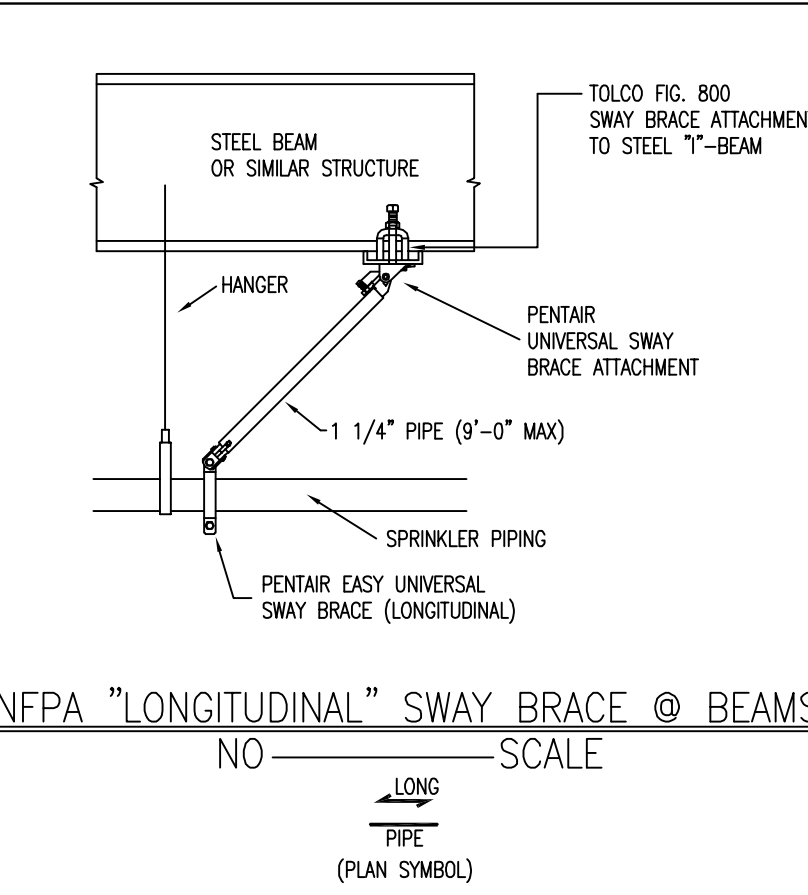
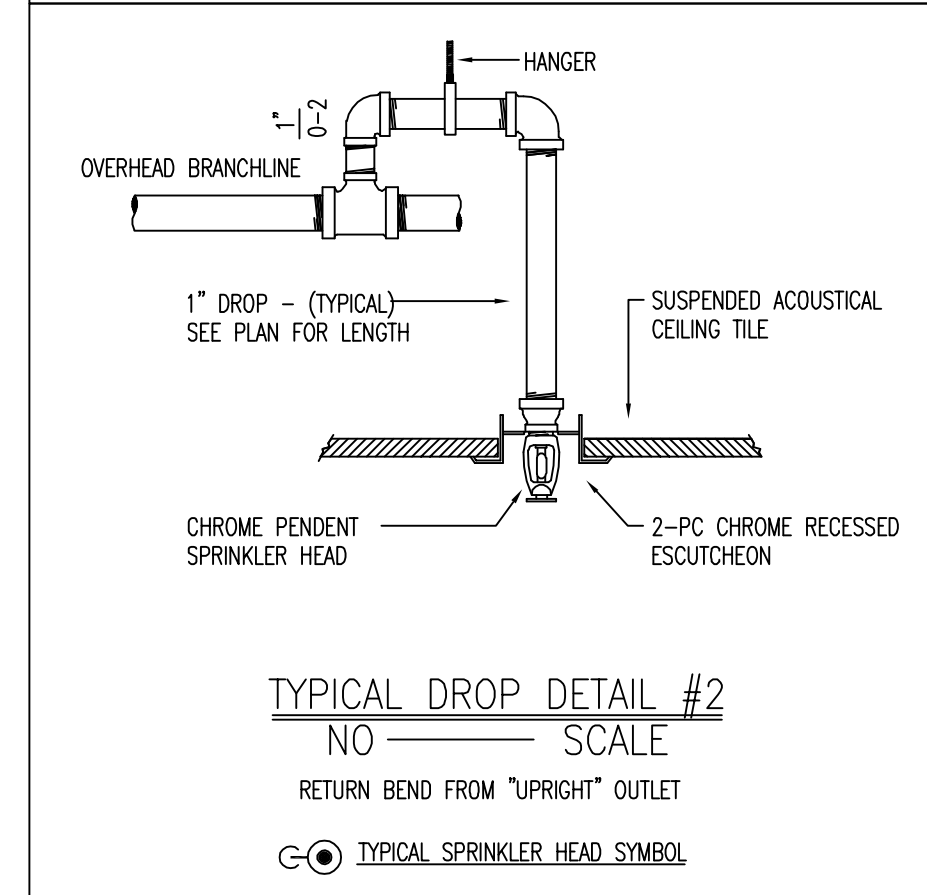
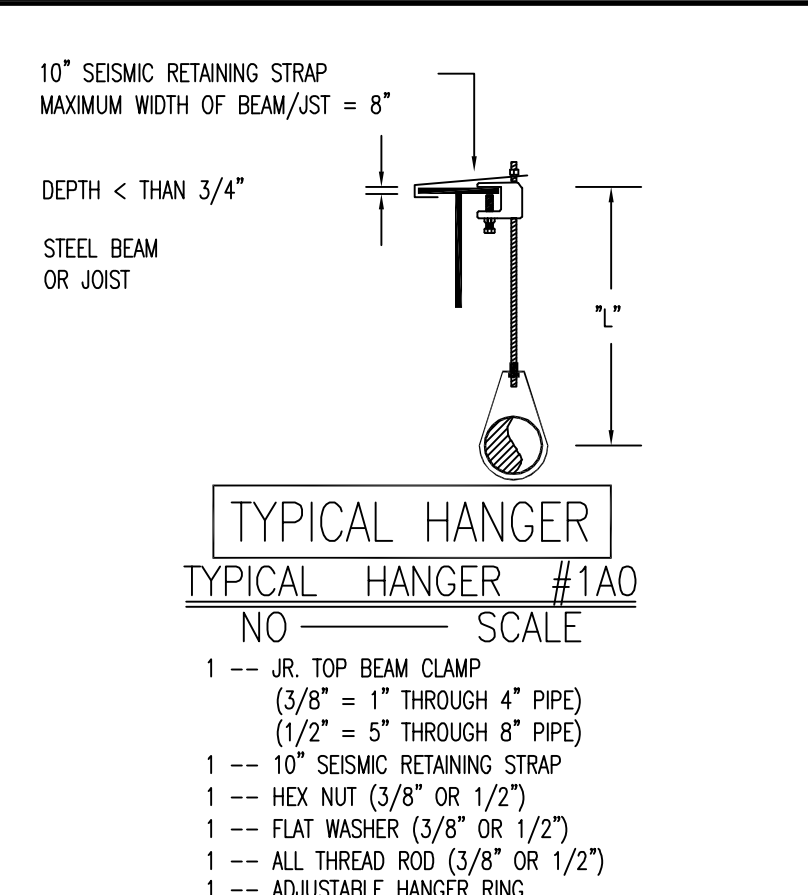
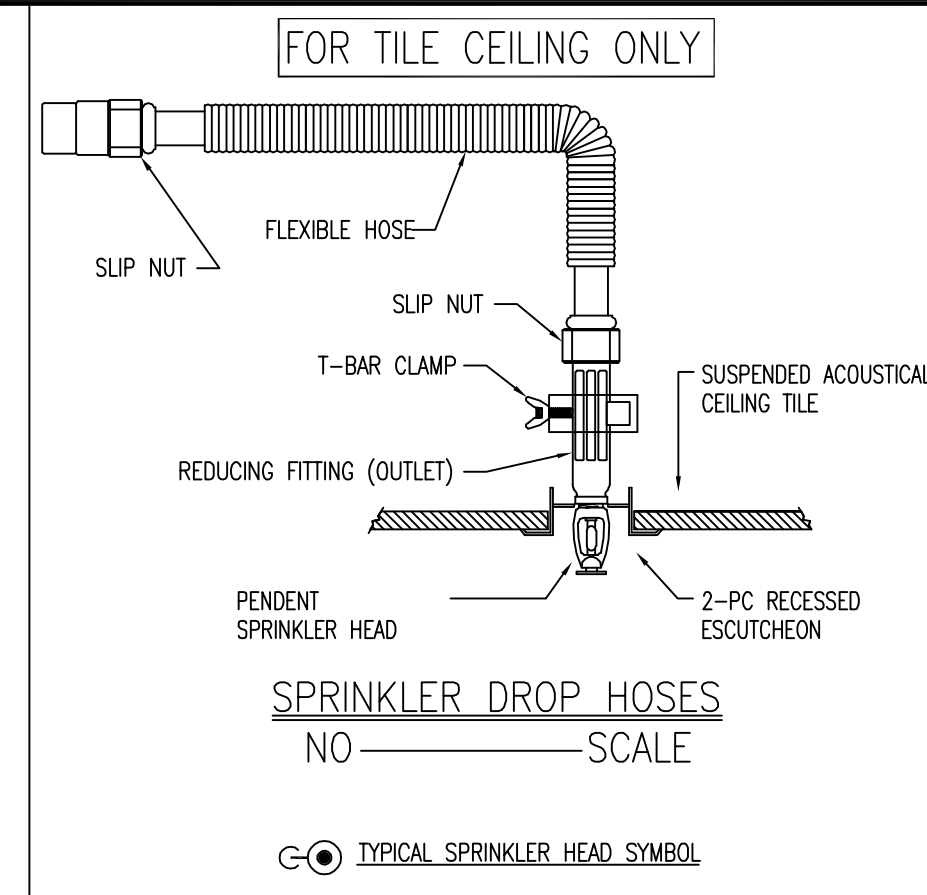


CONSTRUCTION DOCUMENT

SPRINKLERS														
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "K"	CAL'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMB.	QUANTITY
VINGIR	M	VK300	UPR	QR	1/2"	5.6	225 SQ FT	1-12"	155°	BRZ	N/A	10896W/8		-
VINGIR	M	VK350	UPR	QR	3/4"	8.0	130 SQ FT	1-12"	200°	BRZ	N/A	10896W/8		-
VINGIR	EC	VK350	PND	QR	3/4"	8.0	130 SQ FT	1-12"	155°	WHIT	CONCLD	10467W/8		11
VINGIR	MIRAGE	VK462	PND	QR	1/2"	5.6	225 SQ FT	1-12"	155°	WHIT	CONCLD	10467W/8		11
VINGIR	MIRAGE	VK464	PND	QR	3/4"	8.0	130 SQ FT	1-12"	200°	WHIT	CONCLD	10467W/8		33
VINGIR	MIRAGE EC	VK464	PND	QR	3/4"	8.0	130 SQ FT	1-12"	155°	WHIT	CONCLD	10467W/8		33
VINGIR	EC	VK194	PND	QR	1/2"	5.6	225 SQ FT	1-12"	155°	WHIT	CONCLD	07056W/8		33
VINGIR	EC	VK534	PND	QR	3/4"	11.2	100 SQ FT	1-12"	200 °	CHR	E-1	05138W/8		33
TOTAL SPRINKLERS ON THIS CONTRACT:													560	
TOTAL SPRINKLERS ON THIS SHEET:													50	



AUTOMATIC SPRINKLER SYSTEM PLAN
SCALE 1/8" = 1'-0"



SPRINKLERS											
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TYPE	THREAD SIZE	NOM. "K"	CALC'D COVERAGE	DEFLECT. DISTANCE	TEMP.	FINISH	ESC.
VIKING	M	VK300	UPR	QR	1/2"	5.6	225 SQ FT	1-12"	155	BRZ	N/A
VIKING	M	VK350	UPR	QR	3/4"	8.0	130 SQ FT	1-12"	200	BRZ	N/A
VIKING	EC	VK532	UPR	QR	3/4"	11.2	400 SQ FT	1-12"	200	BRZ	N/A
VIKING	MIRAGE	VK462	PND	QR	1/2"	5.6	225 SQ FT	1-12"	155	WHI	CONCLD
VIKING	MIRAGE	VK464	PND	QR	3/4"	8.0	130 SQ FT	1-12"	200	WHI	CONCLD
VIKING	MIRAGE EC	VK634	PND	QR	3/4"	8.0	400 SQ FT	1-12"	155	WHI	CONCLD
VIKING	DRY	VK194	PND	QR	1"	5.6	225 SQ FT	1-12"	155	WHI	DOME CNCLD
VIKING	M	VK305	HSW	QR	1/2"	5.6	196 SQ FT	4-6"	200	BRZ	N/A
TOTAL SPRINKLERS ON THIS CONTRACT:										560	

"AS-BUILTS"

08-01-2017

REV	DATE	REVISION DESCRIPTION
1	08/05/16	FM SCOPE REVIEW
2	10/26/16	PERMIT SET
3	12/29/16	INSTALLATION SET
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REVISION HISTORY

AUTOMATIC SPRINKLER DESIGN BASED ON THE FOLLOWING NFPA STANDARDS:

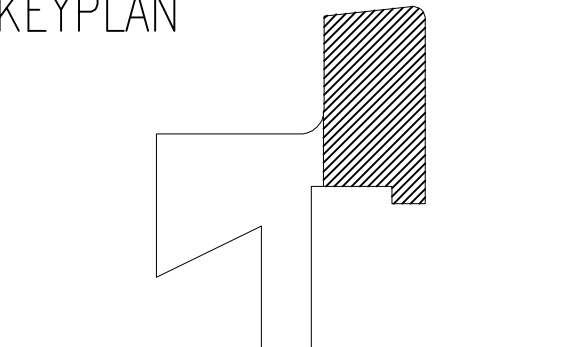
■ NFPA 13—2010	□ NFPA 14—2003
□ NFPA 13 D—2002	□ NFPA 20—2003
□ NFPA 13 R—2002	□ OTHER

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KEYPLAN

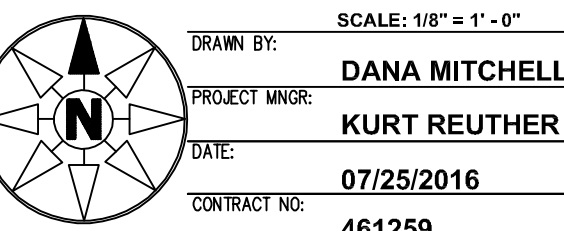


WEBSTER UNIV - INTER. SCIENCE BUILDING
8274 BIG BEND BLVD.
WEBSTER GROVES, MO

FIRE PROTECTION PLAN - LEVEL 4 - AREA A



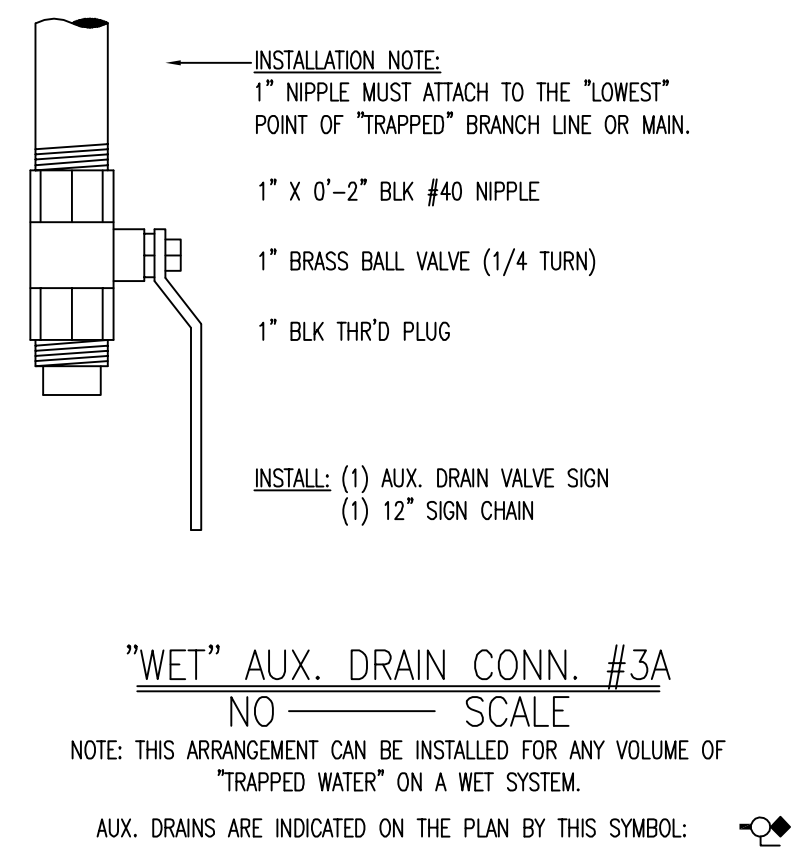
SCALE: 1/8" = 1'-0"



DRAWN BY: **DANA MITCHELL**
PROJECT MANAGER: **KURT REUTHER**
DATE: **07/25/2016**
CONTRACT NO: **461259**

CONSTRUCTION DOCUMENTS

FP-104.A



SPRINKLERS														
MAKE / VENDOR	MODEL	SIN	TYPE	RESPONSE TIME	THREAD SIZE	NOM "K"	CALCD COVERAGE	DEFLECT DISTANCE	TEMP.	FINISH	ESC.	WRENCH	SYMBOL	QUANTITY
Viking M	VK300	UPR	QR	1/2"	5.6	225 SQ FT	1-12"	155'	BRZ	N/A	10896W/8"			
Viking M	VK350	UPR	QR	3/4"	8.0	130 SQ FT	1-12"	200'	BRZ	N/A	10896W/8"			
Viking EC	VK450	UPR	QR	3/4"	8.0	130 SQ FT	1-12"	200'	WHI	CONCLD	10474W/8"			
Viking MIRAGE	VK464	PND	QR	1/2"	5.6	225 SQ FT	1-12"	155'	WHI	CONCLD	10474W/8"		27	
Viking MIRAGE	VK464	PND	QR	3/4"	8.0	130 SQ FT	1-12"	200'	WHI	CONCLD	10474W/8"			
Viking MIRAGE EC	VK454	PND	QR	3/4"	8.0	40 SQ FT	1-12"	155'	WHI	CONCLD	10474W/8"		18	
Viking EC	VK184	PND	QR	1"	5.6	225 SQ FT	1-12"	155'	WHI	DOME CNCLD	0755W/8"			
Viking M	VK305	HSW	QR	1/2"	5.6	196 SQ FT	4-6"	200'	BRZ	N/A	10896W/8"		2	
TOTAL SPRINKLERS ON THIS CONTRACT:													560	
TOTAL SPRINKLERS ON THIS SHEET:													48	

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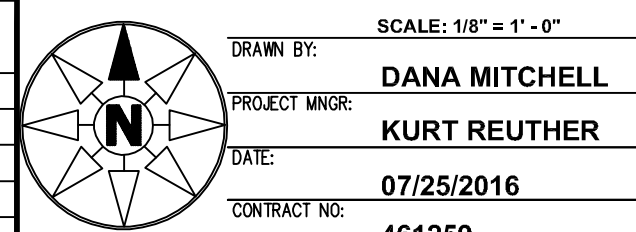
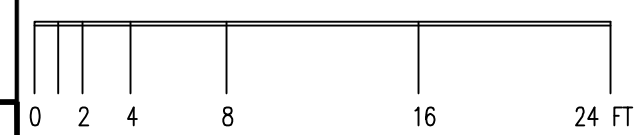


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KEYPLAN

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**FIRE PROTECTION
PLAN - LEVEL 4 -
AREA B**



FP-104.B