

NORTHWEST SECTION (SHEET#3)

☐ Exceptions Noted

☒ No Exceptions Taken

☐ Revise and Resubmit

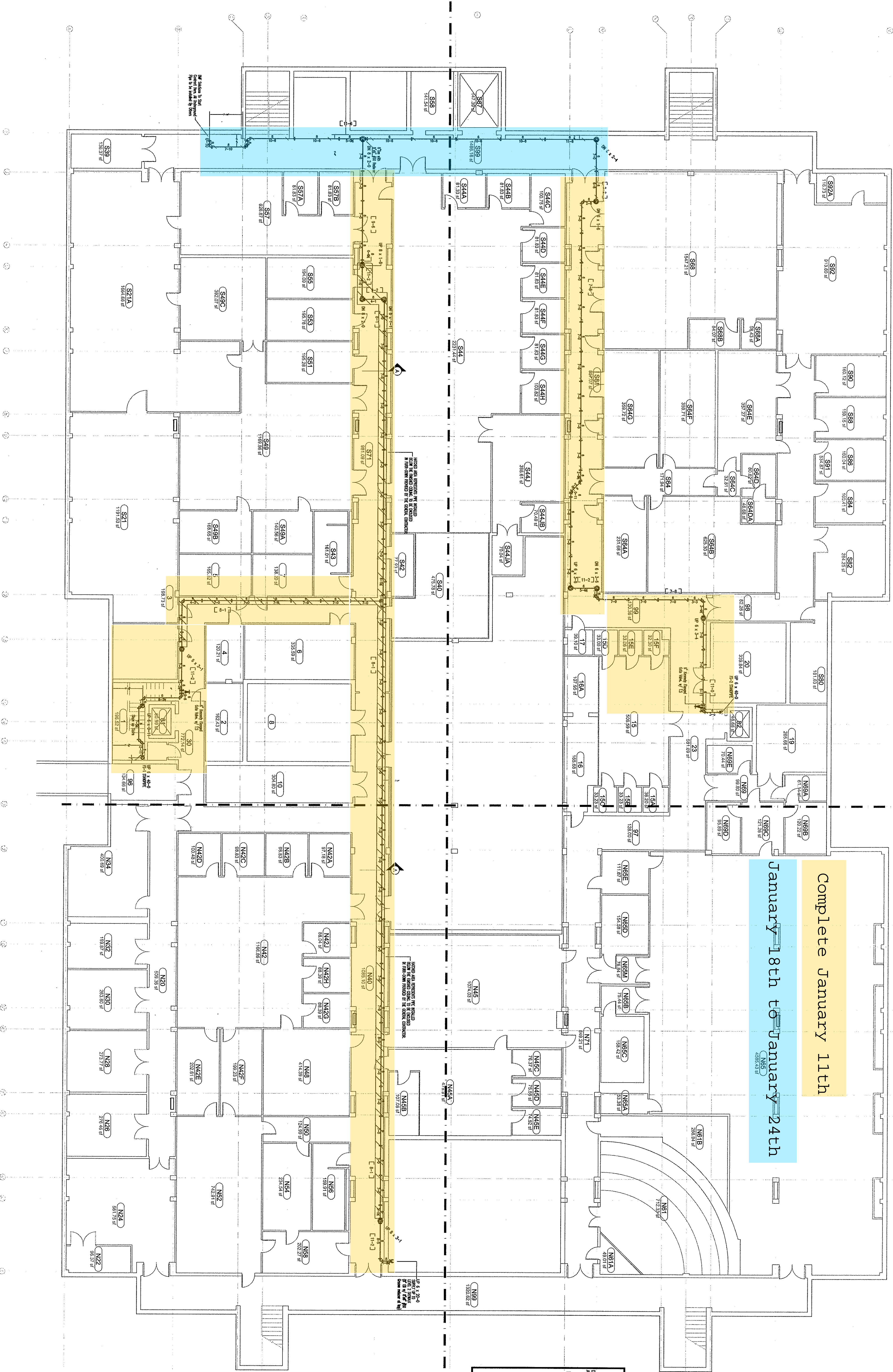
☐ Submit Specified Item

Plans are reviewed for general compliance with design and contract documents. Contractor is responsible for correcting jobsite conditions and coordinating work. Review of submittals does not relieve contractor of the errors or omissions in submittals. All work is subject to final inspection and acceptance.

By: \_\_\_\_\_ Date: 1/27/16

University of Houston Department of Public Safety  
Fire Marshal's Office

NORTHEAST SECTION (SHEET#5)

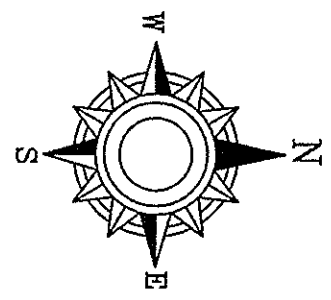


SOUTHWEST SECTION (SHEET#2)

BASEMENT LEVEL STANDPIPE (BLDG 579)  
Scale: 3/32"=1'-0"

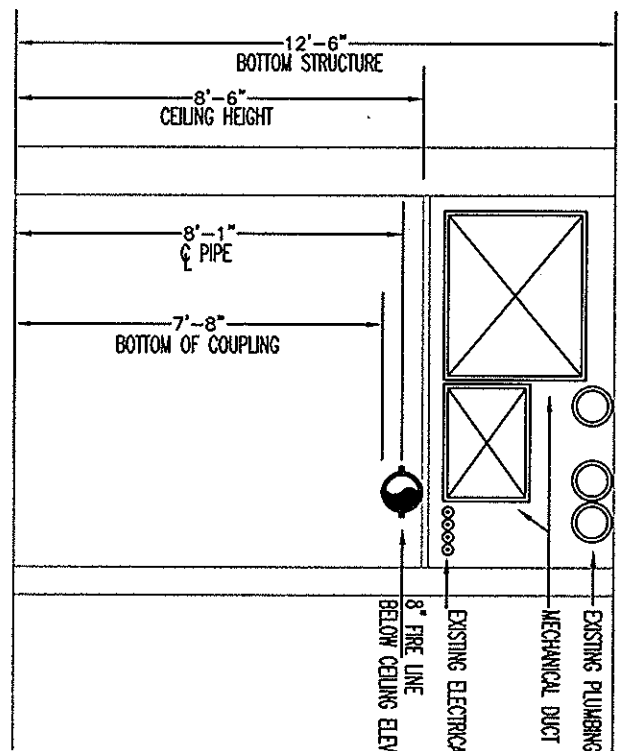
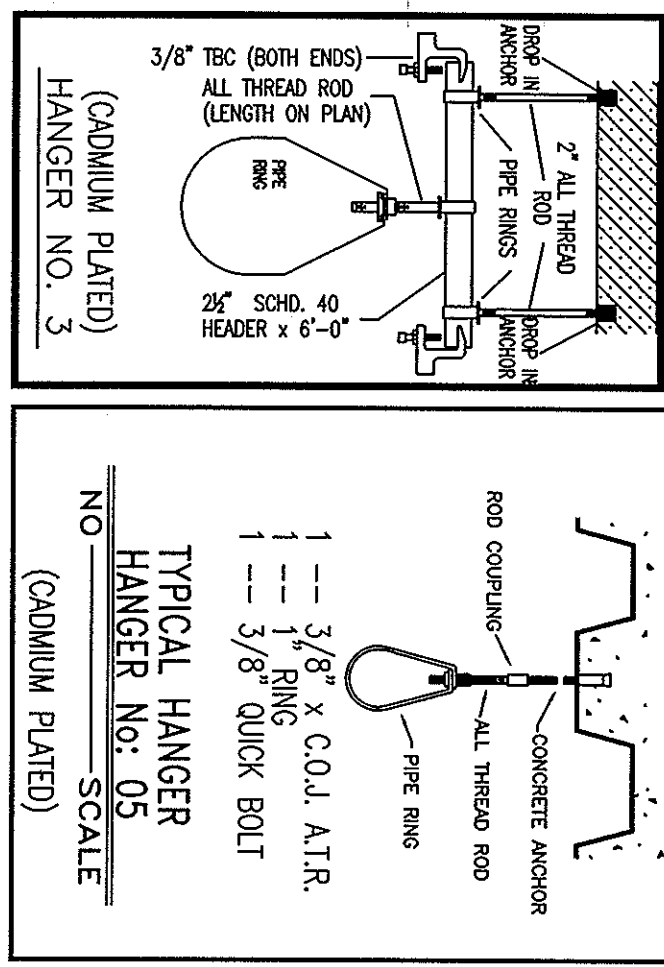
SOUTHEAST SECTION (SHEET#4)

REVISED ROUTING BELOW CEILING  
12-23-2015



GENERAL NOTES

- 1) ALL WORK TO COMPLY WITH NFPA 13 & UL64 FIRE MARSHAL OFF. REGULATIONS. SPECIFICATIONS SECTION 21 12.00 & 21 13.13.
- 2) ALL HANGERS AND DRAINAGE OF PIPING TO BE PER NFPA 13.
- 3) ALL WELDING PERFORMED IN SHOP PER NFPA 13.
- 4) ALL 1" TO 2-1/2" THREADED PIPE TO BE BLACK SCHEDULE 40 A53 A OR B WITH BLACK MALLEABLE CLASS 150 FITTINGS.
- 5) ALL 2-1/2" TO 8" ROLL GROOVED PIPE TO BE BLACK SCHEDULE 40 A53 A OR B AND JOINED WITH VICTALIC FIRELOCK GROOVED FITTINGS.
- 6) ALL DIMENSIONS ARE CENTER TO CENTER DIMENSIONS.
- 7) BUILDING CONSTRUCTION CONCRETE MAX DEFLECTOR DISTANCE FROM ROOF DECK IS 12".
- 8) WET FIRE SPRINKLER SYSTEMS DESIGNED PER NFPA 13, WITH USE OF QUICK RESPONSE HEADS.
- 9) FLOW, PRESSURE SWITCHES & CONTROL VALVES ARE EXISTING AND SHALL BE SUPERVISED AND REPORT TO AN APPROVED LOCAL MONITORING STATION.
- 10) CONCEALED SPRINKLERS TO HAVE WHITE COVER PLATES AND BE INSTALLED IN THE CENTER OF CEILING TILES.
- 11) AUTOMATIC SPRINKLER SYSTEMS TO BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS.
- 12) BWF'S CONTRACT TO START WORK AT 8" FIRE SPRINKLER LINE LOCATED IN NW UTILITY CORRIDOR.
- 13) ALL WALL SLEEVES SCH 40 GALV 0-6" LONG.



I have reviewed these plans and certify that they comply with the adopted NFPA Standards.

B M F SOLUTIONS, LLP  
P.O. BOX 2116  
CYPRESS, TX 77429  
SCR - 0835

RME Signature: *[Signature]*  
Printed RME Name: *Atorkey Proussard*  
Date: *12/27/2015*

☐ SUBMITTAL ☐ OTHER

CONTRACT NAME: University of Houston Fire Pump Relocation 4600 Calhoun Road		SCALE: 3/32"=1'-0"		NO. DATE: BY: REVISIONS-SEE FLAGGED AREA ON PLAN		SPRINKLER MFG. TYCO-FIRE HDS CENTER OF TILE: YES(X) NO ( )	
CONTRACT WITH: Division One		DRAWN BY: SCOTT C		1 12/23/15 SC		REVISED TO AVOID ROUTING IN CLASSROOMS	
DESCRIPTION: Basement STP BLDG 579		CHECKED BY: RB		DATE: 12-13-2015			
		PLANS PREPARED AT: HOUSTON					
		ENGINEERING DEPT. DRAWING NO. 1					
		CONTRACT NUMBER:					



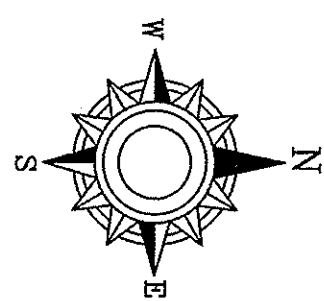
13602 JARVIS ROAD CYPRESS, TX 77429  
PHONE 832-220-1500 FAX 832-220-1504  
THE TOTAL FIRE PROTECTION SOURCE  
TEXAS SCR #0835 HUB# 45033





## **LEVEL 2 STANDPIPE (BLDG 581)**

**Scale: 3/16"=1'-0"**

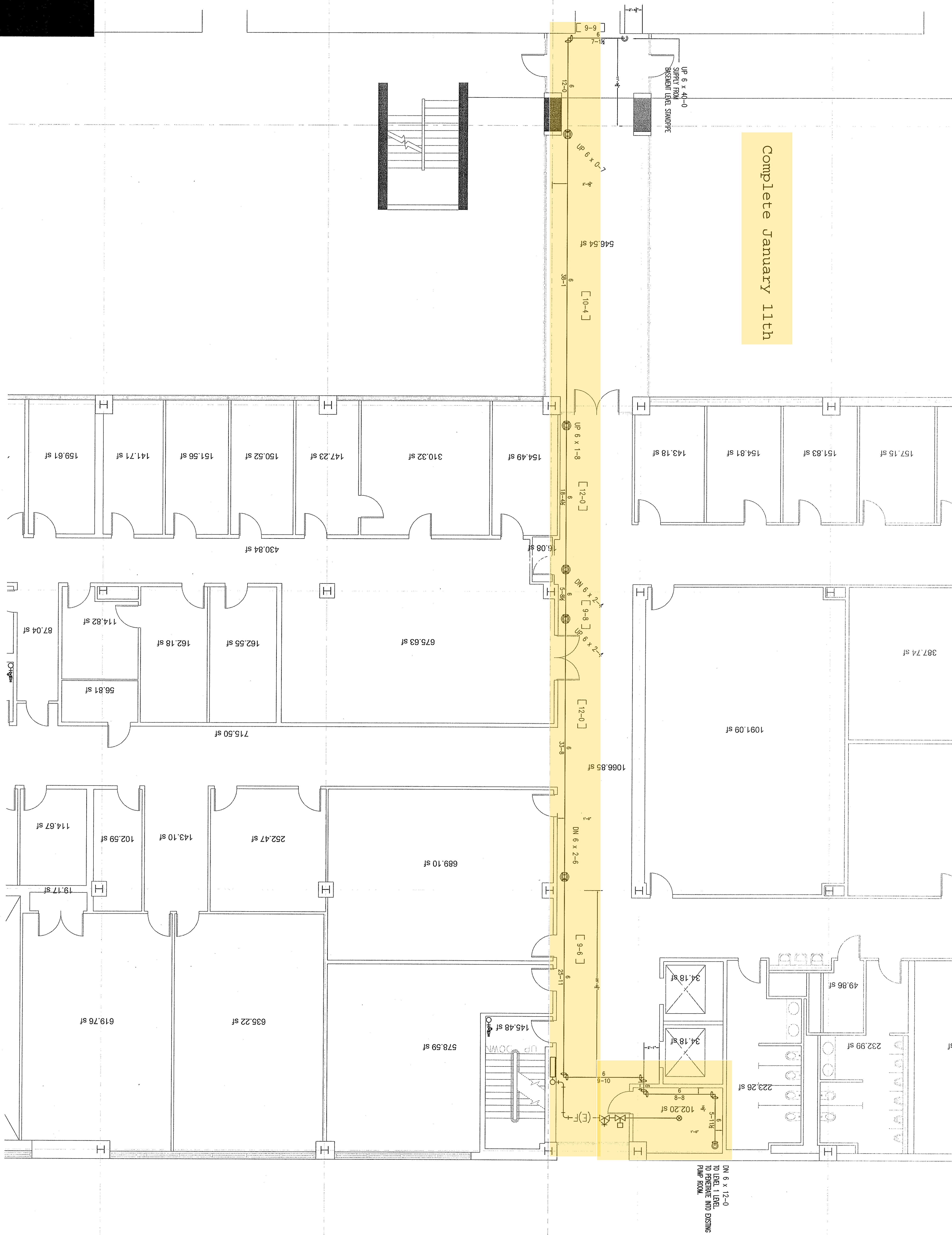


**REVISED ROUTING BELOW CEILING**  
**12-23-2015**


I have reviewed these plans and certify that they comply with the adopted NFPA Standards.

**B M F SOLUTIONS, LLP**  
P O BOX 2116  
CYPRESS, TEXAS 77410-2116  
832-220-1500  
SCR - 0835

NAME Signature: *Mark Byars*  
Printed NAME Name: Alton Rhy Broussard  
RME-0023-G Date: 12/26/2004  
☒ AS-BUILT ☒ SUBMITTAL ☐ OTHER



CONTRACT NAME: University of Houston Fire Pump Relocation 4600 Calhoun Road		SCALE: 3/32"=1'-0"		NO. DATE: BY: REVISIONS--SEE FLAGGED AREA ON PLAN 1 12/23/15 SC REVISED TO AVOID ROUTING IN CLASSROOMS		SPRINKLER LEGEND		SPRINKLER MFG. TYCO-FIRE HDS CENTER OF TILE: YES(X) NO ( )		BUILDING & SYSTEM LEGEND															
DRAWN BY: SCOTT C		CHECKED BY: RB		DATE: 12-13-2015				QTY.		<table><tr><th>Symbol</th><th>Description</th></tr><tr><td></td><td>Hydraulic Reference Points</td></tr><tr><td>( 44 )</td><td>Length of Hanger Rod</td></tr><tr><td>[ 8-6 ]</td><td>Elev. Above Finished Floor</td></tr><tr><td>+ (70S 20-0)</td><td>Elev. of Top of Steel</td></tr><tr><td></td><td>Ceiling Height</td></tr><tr><td></td><td>Denotes Hanger Location</td></tr></table>		Symbol	Description		Hydraulic Reference Points	( 44 )	Length of Hanger Rod	[ 8-6 ]	Elev. Above Finished Floor	+ (70S 20-0)	Elev. of Top of Steel		Ceiling Height		Denotes Hanger Location
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+ (70S 20-0)	Elev. of Top of Steel																								
	Ceiling Height																								
	Denotes Hanger Location																								
CONTRACT WITH: Division One																									
DESCRIPTION: LEVEL2 STP BLDG 581		SHEET: 6		PLANS PREPARED AT: HOUSTON		DRAWING OR ANY PART THEREOF SHALL BE MADE WITHOUT WRITTEN CONSENT OF BMF. CONTAINED SHALL BE TREATED AS SECRET, AND CONFIDENTIAL-NO REPRODUCTION OF THIS THAT THE SAME BE RETURNED TO BMF UPON REQUEST; ALL INFORMATION HEREIN IS THE PROPERTY OF BMF SOLUTIONS, LLP, AND IS LOANED UPON EXPRESS CONDITION THE DRAWING AND THE INFORMATION AND DESIGN APPLICATION HEREIN CONTAINED SPRINKLER SYSTEMS, FOR DRY PIPE, DELUGE AND OTHER TYPES OF VALVES CONTROLLING WATER SUPPLIES TO PROVIDE HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS AND IN ENCLOSURES IN BUILDINGS SUBJECT TO FREQUENT CONDITIONS. IT IS THE OWNERS RESPONSIBILITY TO		TOTAL ?																	
OF: 6		ENGINEERING DEPT. DRAWING NO. 1		CONTRACT NUMBER:																					



BMF

SOLUTIONS LLP

13602 JARVIS ROAD CYPRESS, TX 77429

PHONE 832-220-1500 FAX 832-220-1504

THE TOTAL FIRE PROTECTION SOURCE

TEXAS SCR #0835 HUB# 45033



**100% CD**  
**JULY 31, 2015**



07-31-2016

University of Houston

UNIVERSITY of  
**HOUSTON**

Multi-Disciplinary Research  
and Engineering Building  
Fire Pump Space  
Houston, TX

SCALE:  
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ISSUE: 7/31/2015

ISSUED FOR PRICING 90%	6/29/15
ISSUED FOR CONSTRUCTION 100%	7/31/15

**KEY PLAN (NTS)**

**SHEET TITLE:**

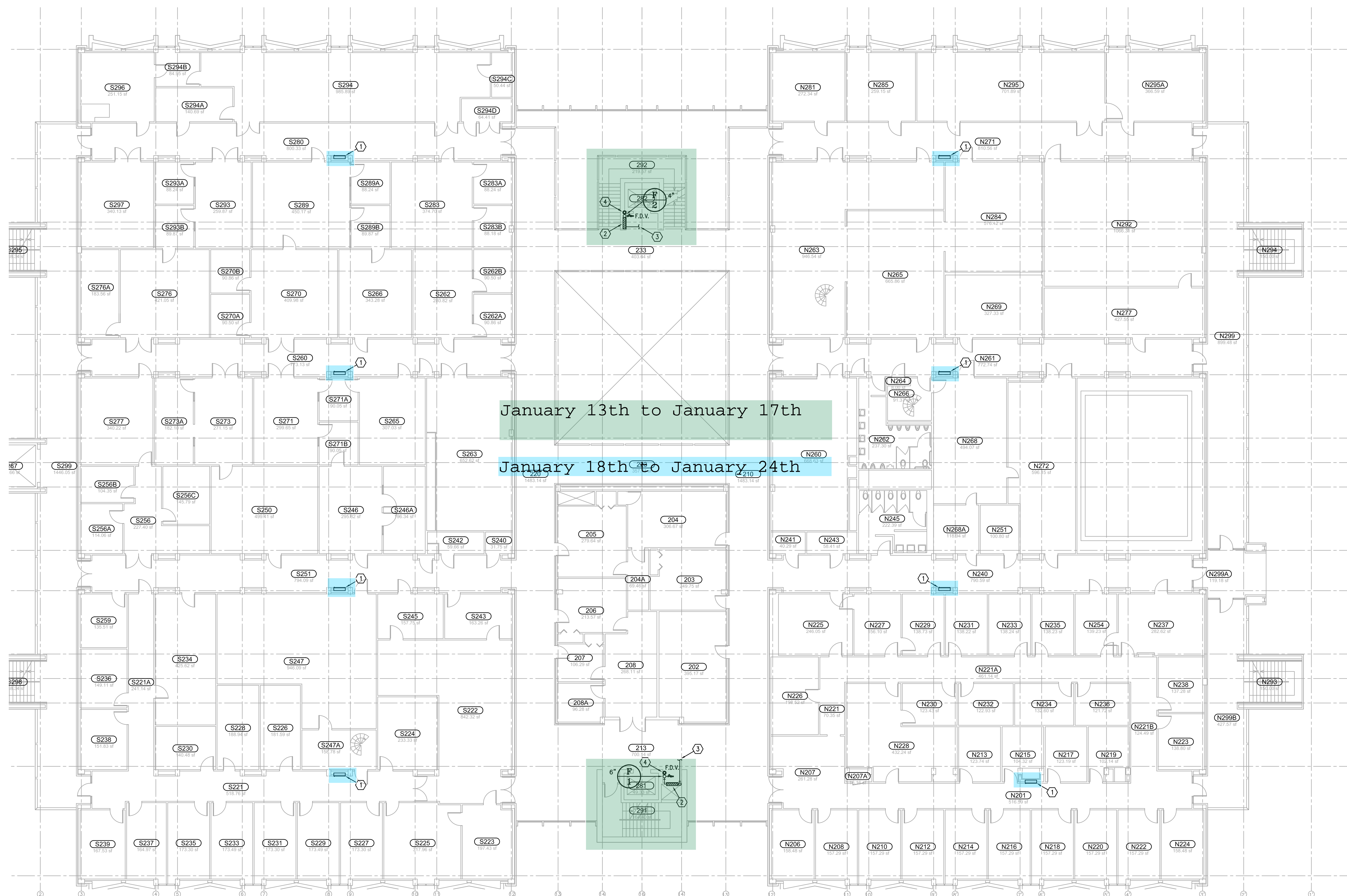
BLDG 579  
LEVEL 1 PLUMBING  
PLAN

P102

SHW Project: 4413.025.00 / 214000175



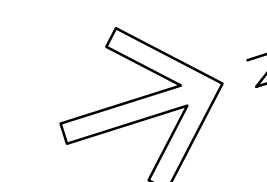




ALL NEW FIRE LINES SHALL BE INSTALLED ABOVE CEILING WHERE POSSIBLE. COORDINATE WITH EXISTING CONDITIONS AND VERIFY ROUTING WITH USER PRIOR TO INSTALLATION.

- ① EXISTING FIRE HOSE CABINET WITH 2-1/2" VALVE; CONTRACTOR SHALL REPLACE EXISTING 2-1/2" VALVE WITH NEW PRESSURE REGULATING TYPE VALVE.
- ② RECESSED SPRINKLER FLOOR CONTROL VALVE ASSEMBLY.
- ③ SPRINKLER SUPPLY LINE; SIZED AND ROUTED BY SPRINKLER CONTRACTOR.
- ④ NEW 3" TEST DRAIN RISER.

## 1 LEVEL 2 PLUMBING PLAN





100% CD  
JULY 31, 2015



University of Houston

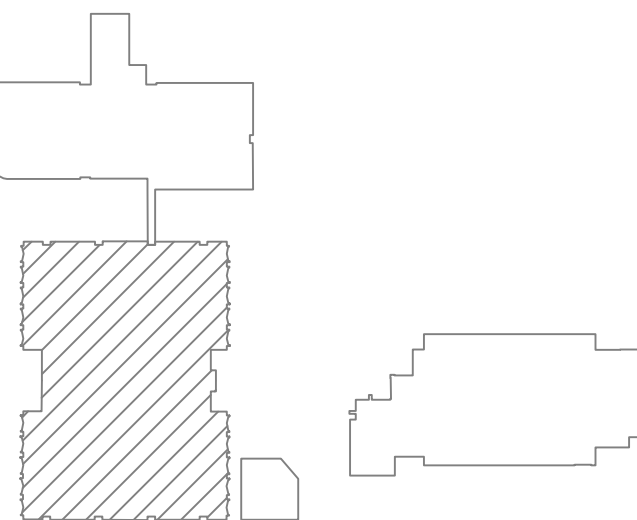


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SCALE:  
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ISSUED FOR CONSTRUCTION 100% 7/31/15



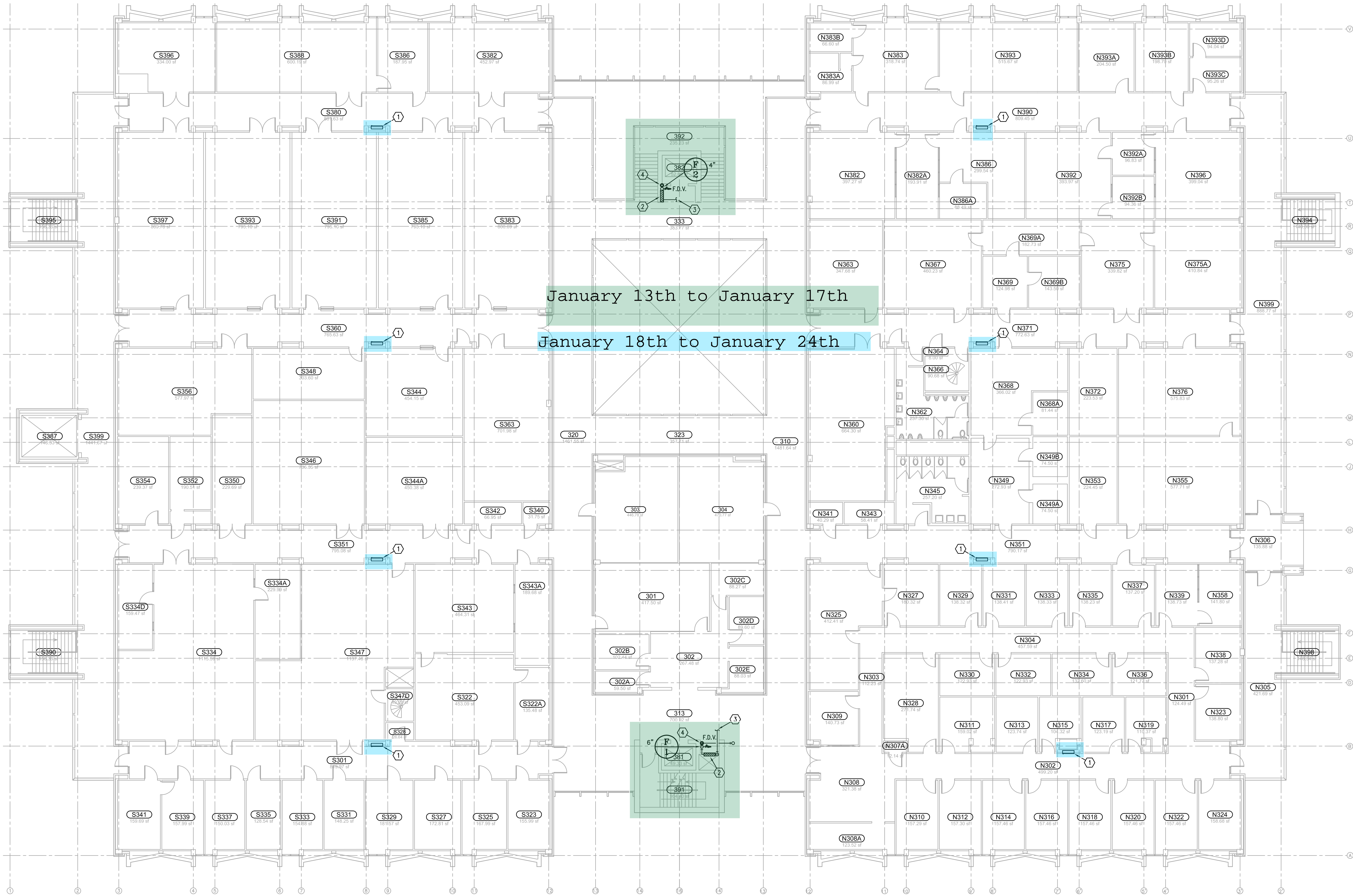
KEY PLAN (NTS)

SHEET TITLE:

BLDG 579  
LEVEL 3 PLUMBING  
PLAN

P104

SHW Project: 4413.025.00 / 214000175



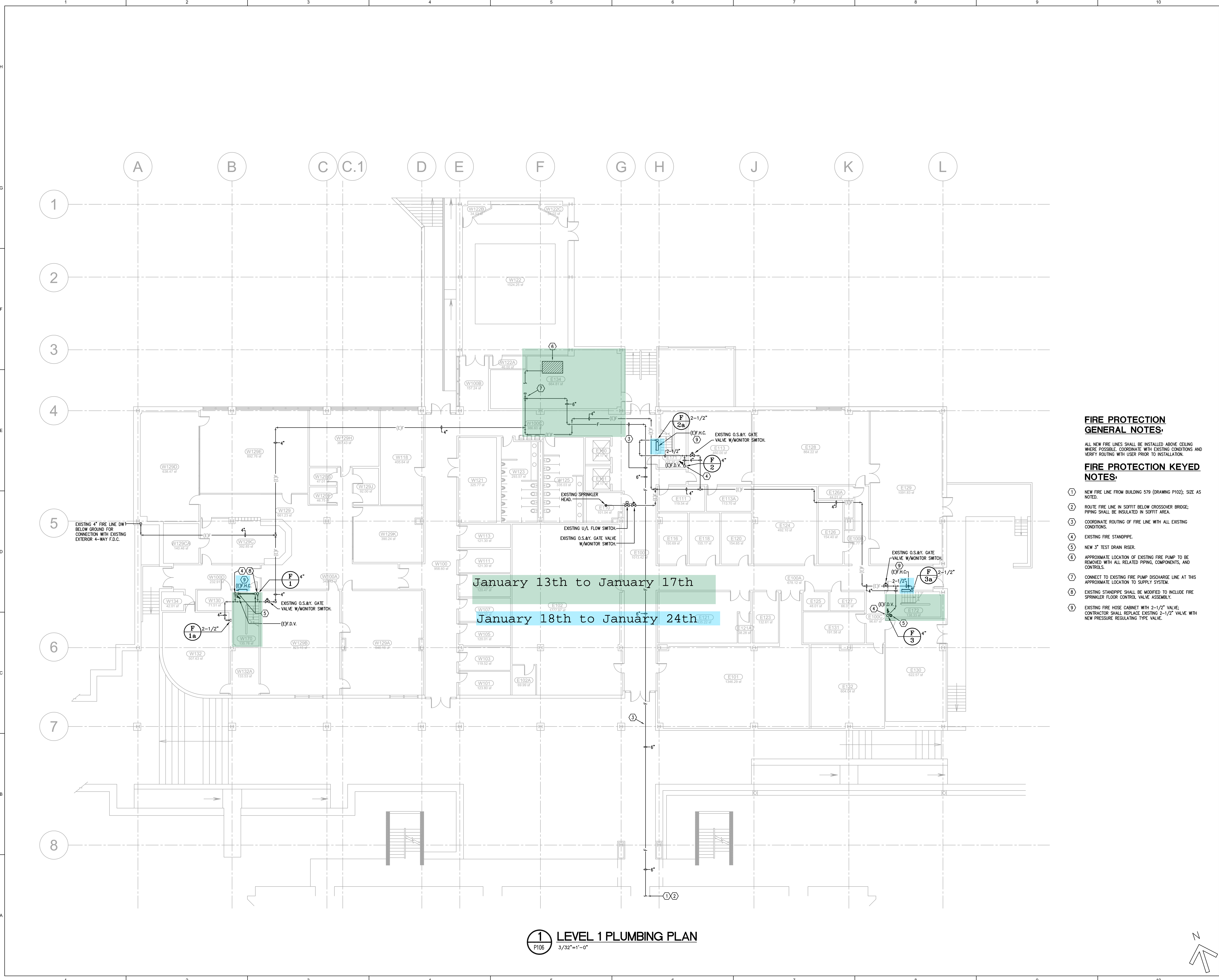
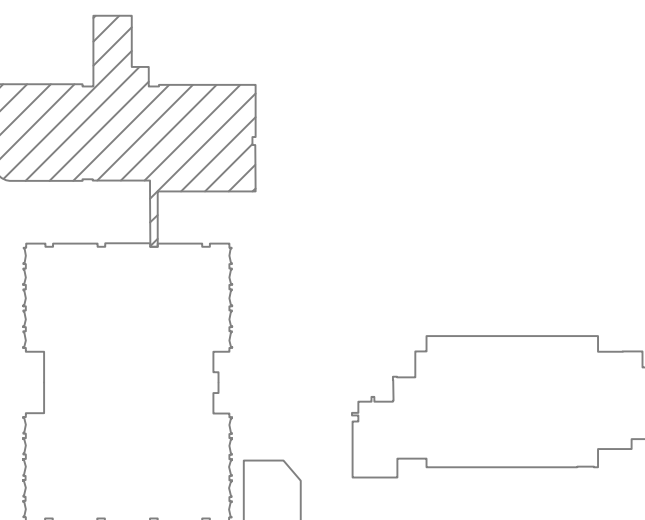
**FIRE PROTECTION  
GENERAL NOTES:**

ALL NEW FIRE LINES SHALL BE INSTALLED ABOVE CEILING  
WHERE POSSIBLE. COORDINATE WITH EXISTING CONDITIONS AND  
VERIFY ROUTING WITH USER PRIOR TO INSTALLATION.

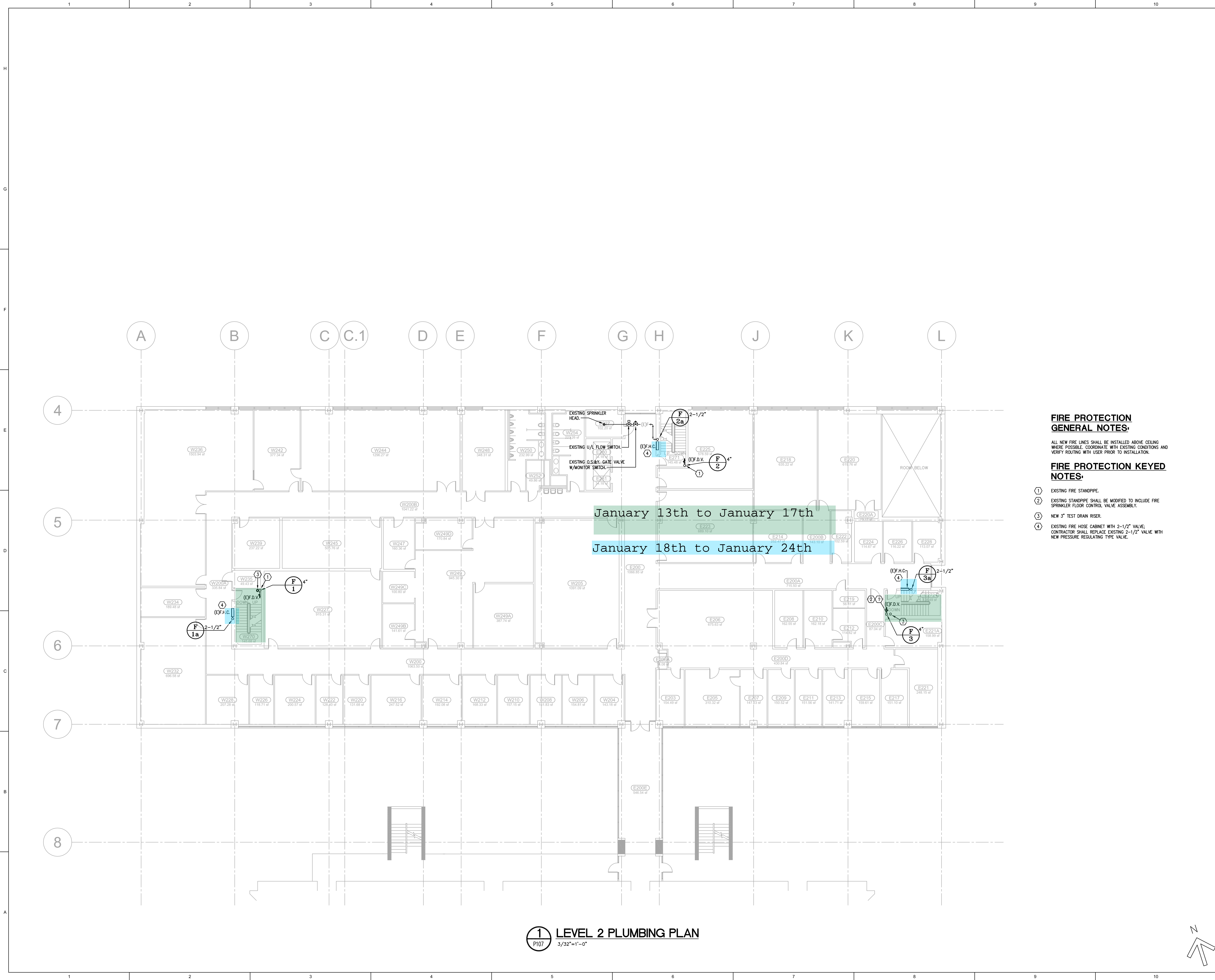
**FIRE PROTECTION KEYED  
NOTES:**

- EXISTING FIRE HOSE CABINET WITH 2-1/2" VALVE;  
CONTRACTOR SHALL REPLACE EXISTING 2-1/2" VALVE WITH  
NEW PRESSURE REGULATING TYPE VALVE.
- RECESSED SPRINKLER FLOOR CONTROL VALVE ASSEMBLY.
- SPRINKLER SUPPLY LINE, SIZED AND ROUTED BY SPRINKLER  
CONTRACTOR.
- NEW 3" TEST DRAIN RISER.





1 LEVEL 1 PLUMBING PLAN  
3/32"=1'-0"



20 EAST GREENWAY PLAZA  
SUITE 200  
HOUSTON, TEXAS 77046  
P 713.548.5700  
F 713.548.5701

DBR ENGINEERING CONSULTANTS  
TBPCE FIRM REGISTRATION NO. 2234  
3990 Richmond Avenue  
South Building, Suite 300  
Houston, Texas 77042  
713.914.0880 p  
713.914.0886 f

CS	--	BM/RF	PV
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100% CD  
JULY 31, 2015

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Houston, TX

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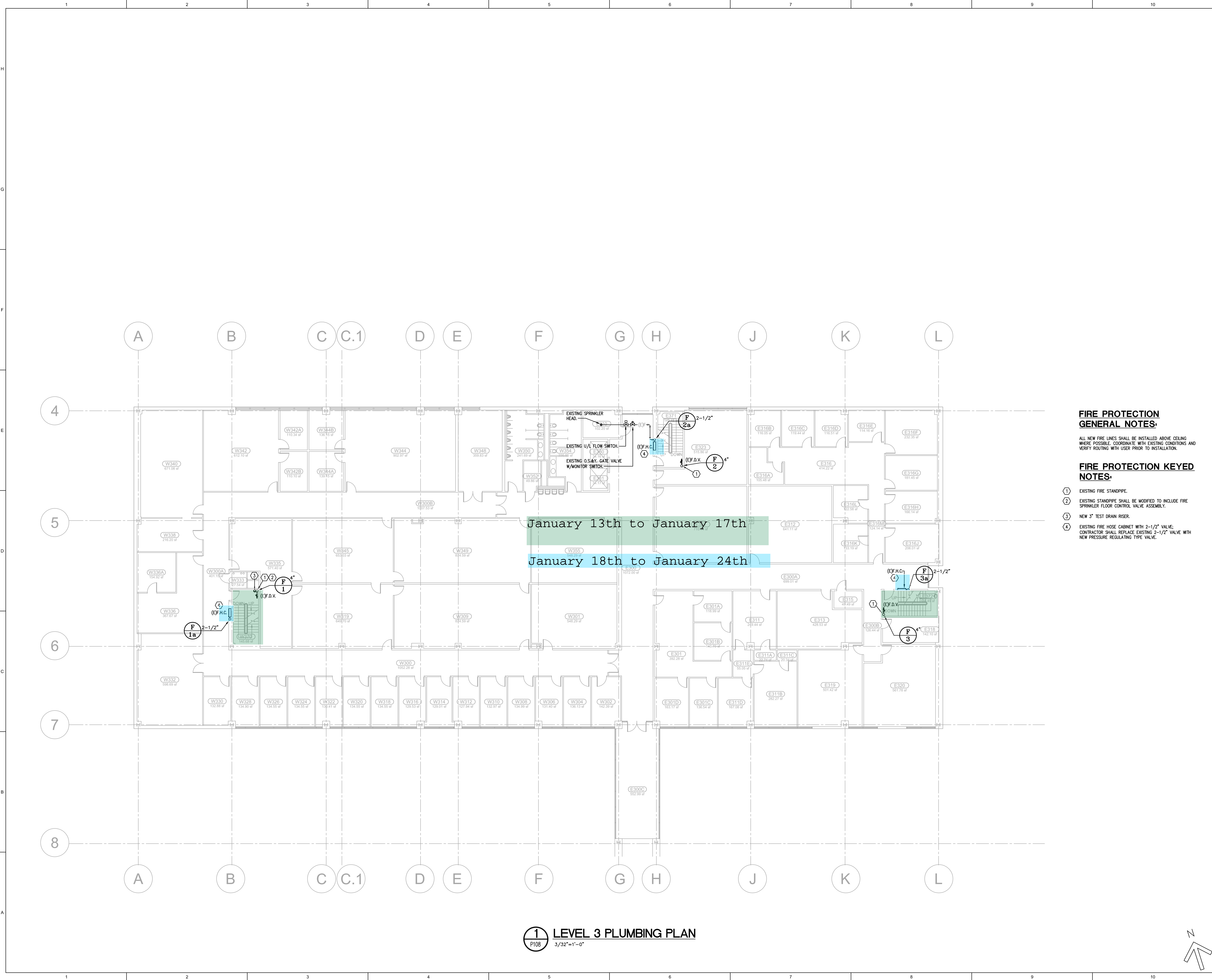
SHEET TITLE:


BLDG 581  
LEVEL 2 PLUMBING  
PLAN

P107

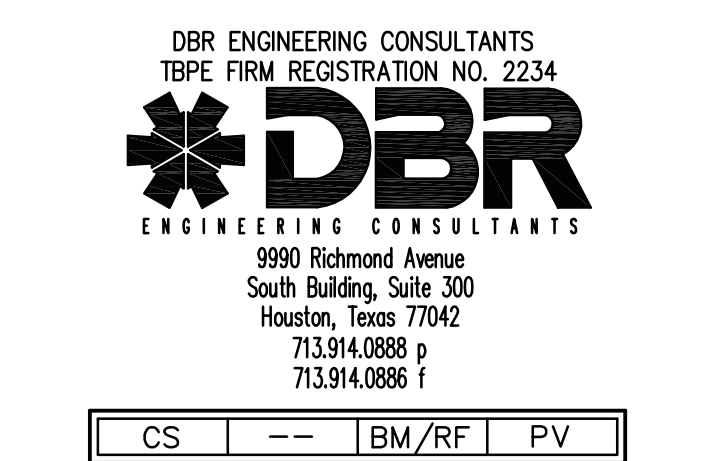
SHW Project: 4413.025.00 / 214000175








20 EAST GREENWAY PLAZA  
SUITE 200  
HOUSTON, TEXAS 77046  
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9950 Richmond Avenue  
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713.914.0888 p  
713.914.0888 f


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100% CD  
JULY 31, 2015



07-31-2015

University of Houston

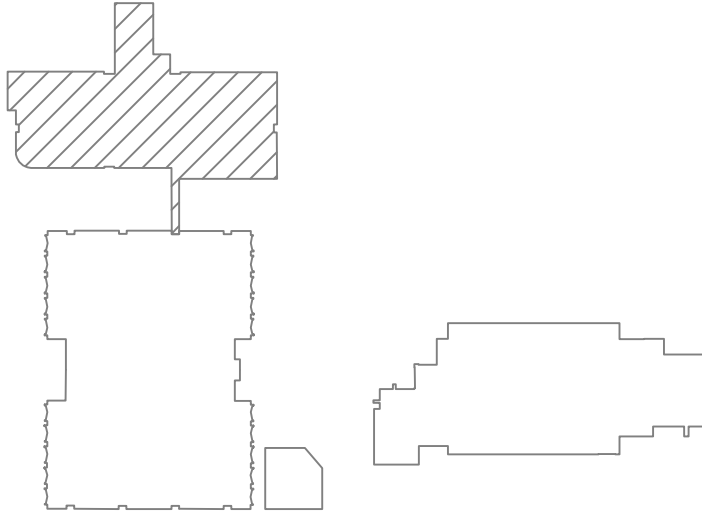


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KEY PLAN (NTS)

SHEET TITLE:

BLDG 581  
LEVEL 3 PLUMBING  
PLAN

P108

SHW Project: 4413.025.00 / 214000175



