

GENERAL NOTES

1. ALL STEEL PIPE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

PIPE SIZE	SCHEDULE	STEEL PIPE ASTM A-795 OR BETTER		END PREP TYPES ALLOWED	WEIGHT OF WATER/PIPE	SPACING FEET/ALONG
		WALL THICKNESS	INTERNAL DIAMETER			
1	40	0.133	1.049	THREADED, CUT GROOVED, ROLL GROOVED, FLAM END, POLISHED	2.05	0.044
1 1/2	40	0.145	1.610	ROLL GROOVED, POLISHED, FLAM END (FOR BUTT WELDING)	3.602	0.106
3	40	0.216	3.068	ROLL GROOVED, FLAM END (FOR BUTT WELDING)	10.783	0.284

** WALL THICKNESS PER NFPA # 13

2. ALL GROOVED COUPLINGS TO BE RIGID TYPE UNLESS NOTED (|||) WHICH ARE FLEXIBLE.

SCOPE OF WORK

SMITH FIRE SYSTEMS (SFS) WILL MODIFY THE EXISTING SPRINKLER SYSTEM TO ACCOMMODATE THE NEW WALLS AND CEILINGS.

CLARIFICATIONS:

- ALL AREAS PROTECTED BY A WET PIPE SYSTEM MUST BE MAINTAINED AT 40°F IN ORDER TO PREVENT FREEZING.
- SPRINKLER MODIFICATIONS ARE BASED UPON HAVING ADEQUATE PRESSURE AVAILABLE AT THE POINT OF CONNECTION
- MATERIALS INSTALLATION AND DESIGN PER NFPA 13 STANDARDS AS SELECTED BY SFS.
- ROUGH-IN OF NEW SPRINKLER DROPS MUST BE COMPLETED BEFORE NEW WALLS OR CEILINGS ARE INSTALLED.
- SPRINKLERS WILL NOT BE ADJUSTED OR ADDED TO ALIGN SYMMETRICALLY WITH OTHER CEILING ELEMENTS OF EXISTING SPRINKLERS.

EXCLUSIONS:

- SAFE OFF OR A SEPARATE DEMO TRIP IS NOT INCLUDED U.N.O.
- FLOOR MUST BE FREE AND CLEAR OF MECHANISE, STOCK, RACKING, OR CONSTRUCTION MATERIALS TO ALLOW FOR ACCESS TO PIPE AT THE STRUCTURE.
- CUTTING PATCHING OR FIRE CAULKING OF WALLS, CEILINGS, OR FLOORS
- DDH, FM, INSURANCE, OR OTHER OUTSIDE REVIEW REQUIREMENTS, APPROVALS OR FEES
- HEAT TRACE OR INSULATION OF ANY KIND.
- NO WORK HAS BEEN INCLUDED FOR ANY NEW WALLS BUILT TO THE ROOF.
- ANY WORK OUTSIDE THIS TENANT SPACE
- PAINTING OR LABELING OF PIPE
- REPLACEMENT OF PAINTED, DAMAGED, OR CORRODED SPRINKLERS.
- ELECTRICAL OR ALARM WORK OF ANY KIND.
- BACKFLOW INSTALLATION, MODIFICATION, OR CERTIFICATION (IF REQUIRED)
- REPAIRS OR MODIFICATIONS TO THE EXISTING SYSTEM BEYOND THE SCOPE DESCRIBED ABOVE.
- MODIFICATIONS REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRADES
- STRUCTURAL ANALYSIS, SEISMIC INVESTIGATION, OR PE REVIEW U.N.O.
- UNDERGROUND WORK OF ANY KIND.
- FIRE WATCH OR TEMPORARY SPRINKLER PROTECTION DURING CONSTRUCTION.
- COOKING HOOD OR DUCT PROTECTION OF ANY KIND INCLUDING CAPTIVE AIR SYSTEMS.

DESIGN CRITERIA:

PER NFPA 13 2016, THE CITY OF PUYALLUP & NRG SPECIFICATIONS.

EXISTING CRITERIA:
RACK STORAGE - HIGH PILED STORAGE = .495 GPM / 2,000 SQ FT

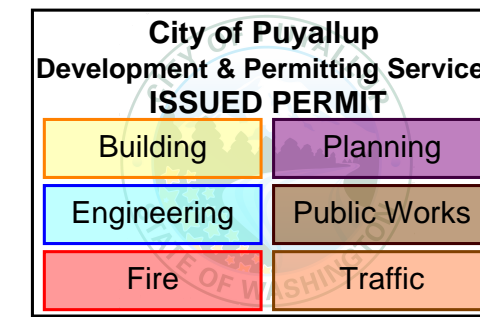
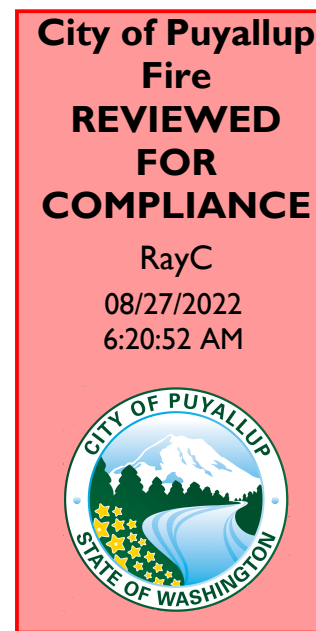
NEW DESIGN CRITERIA:
MISC. ANCILLARY AREAS - ORDINARY HAZARD GROUP II CLASSIFICATION
.20 GPM / 1500 SQ FT

TENANT IMPROVEMENT:

THIS PROJECT IS A TENANT IMPROVEMENT. THIS FACILITY HAS ALREADY BEEN PROTECTED BY A FIRE SPRINKLER SYSTEM. SMITH FIRE SYSTEMS IS ADDING AND/OR RELOCATING SPRINKLER HEADS TO ACCOMMODATE THE NEW TENANT WALL, CEILING, LIGHTING, AND HVAC LAYOUT. ALL WORK WILL BE DONE WITHOUT AFFECTING THE CAPABILITY OF THE EXISTING SYSTEM.

WATER SUPPLY INFORMATION

STATIC	73 PSI
RESIDUAL	70 PSI
FLOWING	1,743 GPM
LOCATION OF TEST	HYDRANT LOCATED AT 39TH AVE SW & 12TH ST SW
DATE OF TEST	8-19-21
DATA SUPPLIED BY	NRG
ELEV. OF FLOW TEST:	SAME AS SITE
* WATER SUPPLY TO BE USED FOR FIRE SPRINKLER DESIGN AT EFFECTIVE POINT.	
STATIC	65.7 PSI
RESIDUAL	62.7 PSI
FLOWING	1,743 GPM
* NOTE RAW FLOW DATA SHALL BE REDUCED BY 10% (7.3 PSI) SAFETY FACTOR PER LOCAL AHJ AND OWNER REQUIREMENTS.	

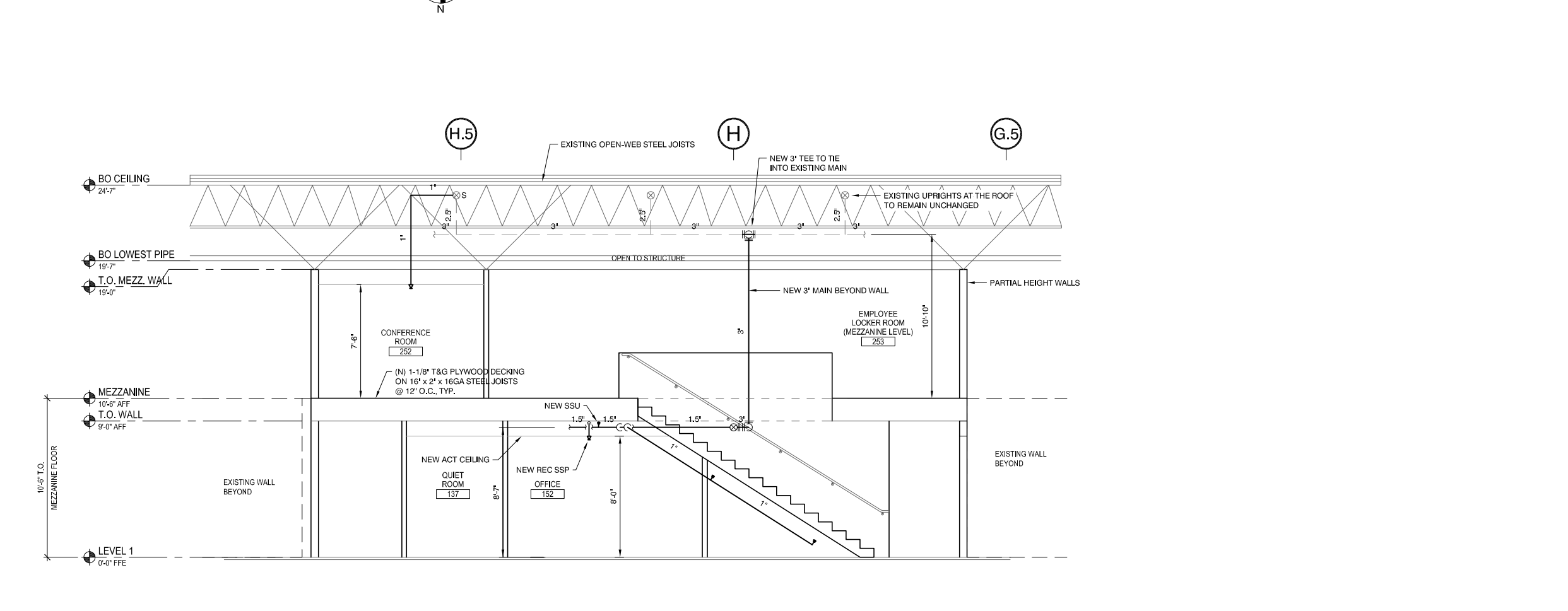
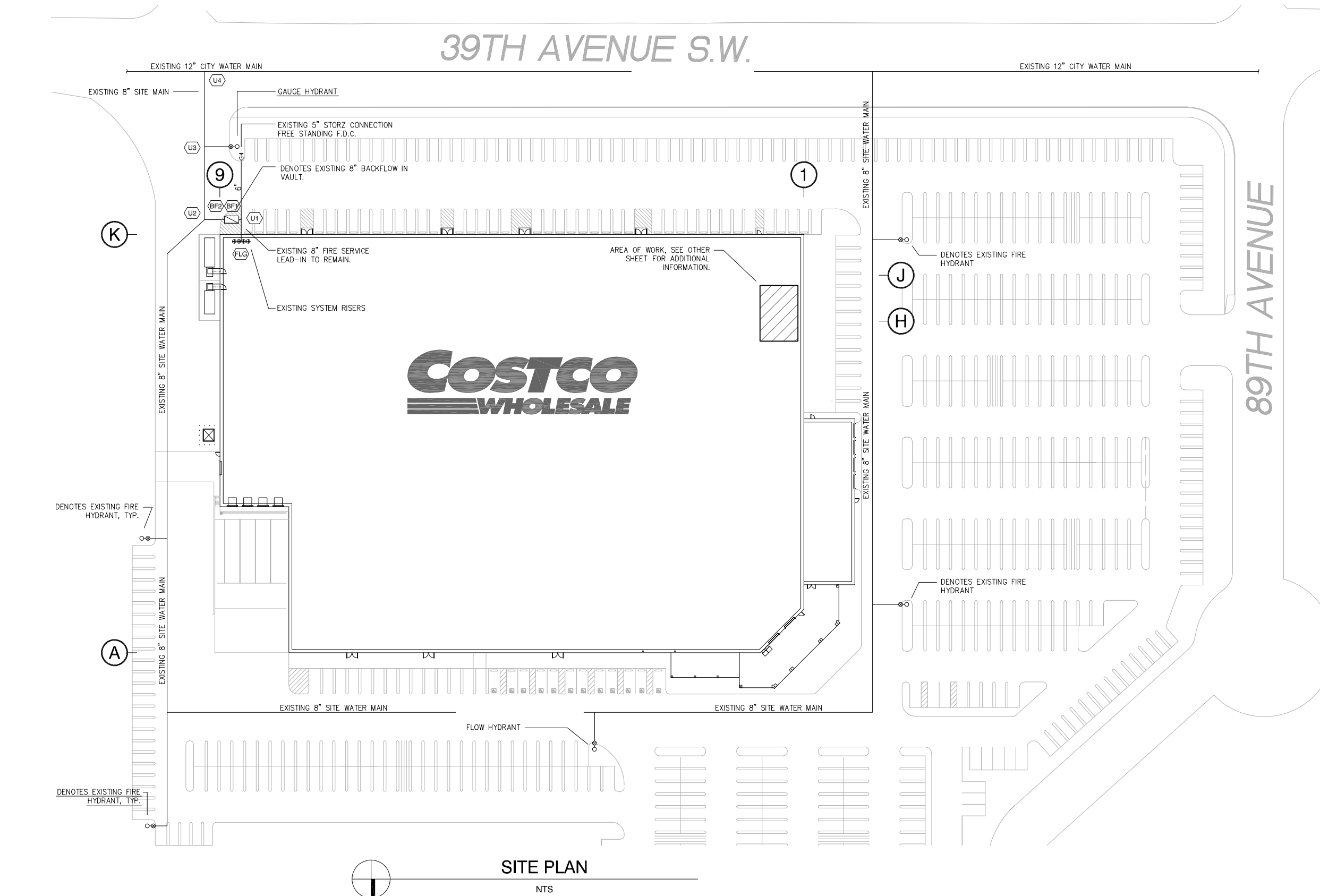


Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

WET SYSTEM NO. 2			
AREA DESCRIPTION	AREA SQ. FOOTAGE	NUMBER OF SPRINKLERS	
LOCKER ROOM	1,223	19	
MEZZANINE	801	4	
TOTAL:	14,436	23	

HYDRAULIC CALCULATION DATA			
ACTUAL DENSITY:	.20 GPM / 1,143.06 SQUARE FEET		
DEMAND AT BASE OF RISER	471.4 GPM AT 40.0 PSI (100 GPM INSIDE HOSE ALLOWANCE)		
DEMAND AT CITY CONNECTION	621.4 GPM AT 52.4 PSI (250 GPM TOTAL HOSE ALLOWANCE)		



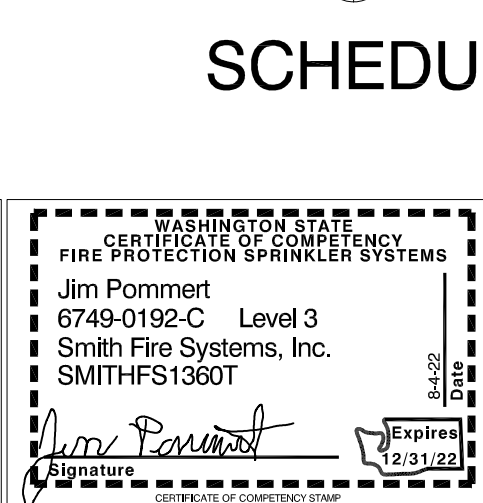
ABBREVIATIONS		SYMBOL LEGEND		PIPE LEGEND	
APR	ABOVE FINISHED FLOOR	(12)	CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES	---	NEW SPRINKLER PIPE
BOB	BOTTOM OF BEAM	+	NEW 1" PLUG	- - - -	EXISTING SPRINKLER PIPE
BOB	BOTTOM OF JOIST	+	NEW 1 1/2" PLUG	- - - -	RELOCATED EXISTING PIPE
BOB	BOTTOM OF TRUSS	+	S	---	NEW FLEXDROP
BOB	BOTTOM OF FLOOR	+	S	---	RELOCATED EXISTING FLEX
BOB	BOTTOM OF SLAB	+	S	---	
FO	FIELD ORDER	MT	NEW MECHANICAL TEE OUTLET	---	
FROM	INSIDE FACE OF WALL	R	RELOCATED EXISTING SPRINKLER	---	
OPW	OUTSIDE FACE OF WALL	P	EXISTING THREADED OUTLET	---	
NO	NO AUTO SPREADS	(E)	EXISTING SYSTEM COMPONENT	---	
UNO	UNLESS NOTED OTHERWISE			---	
N/C	NOT IN CONTACT			---	
THE	THROUGH ONE END			---	
QUE	THROUGH ONE END			---	
TRB	THROUGH BOTH ENDS			---	

SPRINKLER LEGEND										
SYM	MANUFACTURER	S.A.N.	TYPE	MODEL	OPERATOR	WARRANTY	TEST	TEST	TEST	QUANTITY

REVISIONS		
NO.	DATE	REASON FOR REVISION

BUILDING INFORMATION	
MAINTENANCE CONTACT :	
MAINTENANCE PHONE :	
ALARM COMPANY :	
ALARM PHONE :	
ALARM CODE :	
ALARM PASSWORD :	
FIRE DEPARTMENT :	
FIRE DEPT. PHONE :	

CONTRACT WITH	
FERGUSON CONSTRUCTION	13810 SE EASTGATE WAY SUITE 110 BELLVUE, WA 98005
PROJECT MANAGER :	JOHN BUTTERFIELD
OFFICE PHONE :	425-974-8400
CELL PHONE :	
EMAIL :	JOHN@FERGUSONCONSTRUCTION.COM
SUPERINTENDENT :	
PHONE :	
EMAIL :	



COSTCO PUYALLUP BREAKROOM MEZZANINE	
1201 39TH AVE SW PUYALLUP, WA 98373	
DESIGNER	ISRAEL P.
PROJECT MGR	LANE L.
DATE	8-4-22
SHEET	1 OF 2
JOB NO.	T122062

!CAUTION! 50% REDUCED PRINTS

SCHEDULE 40 / DOMESTIC SITE PLAN

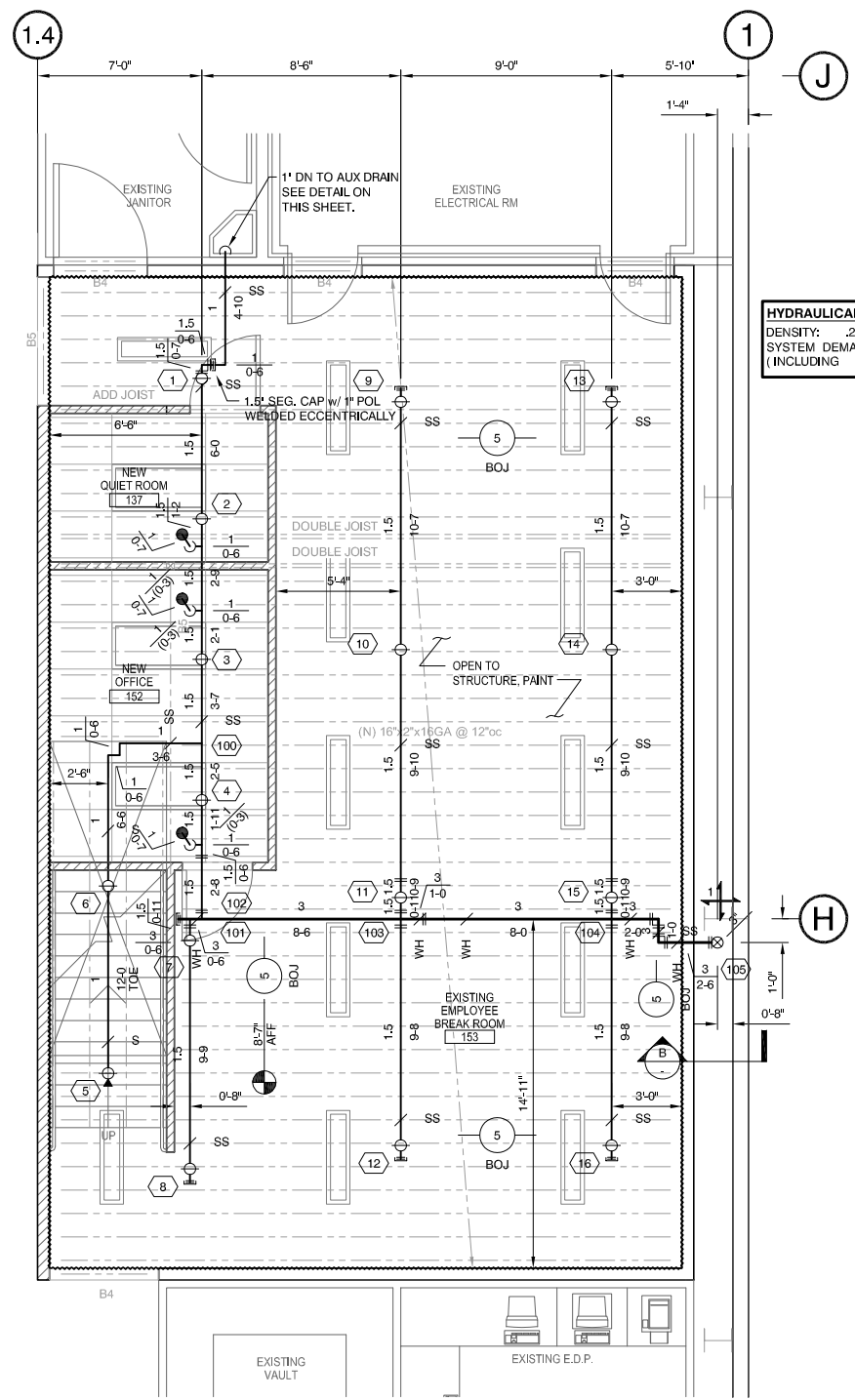


FITTER/LISTER NOTES

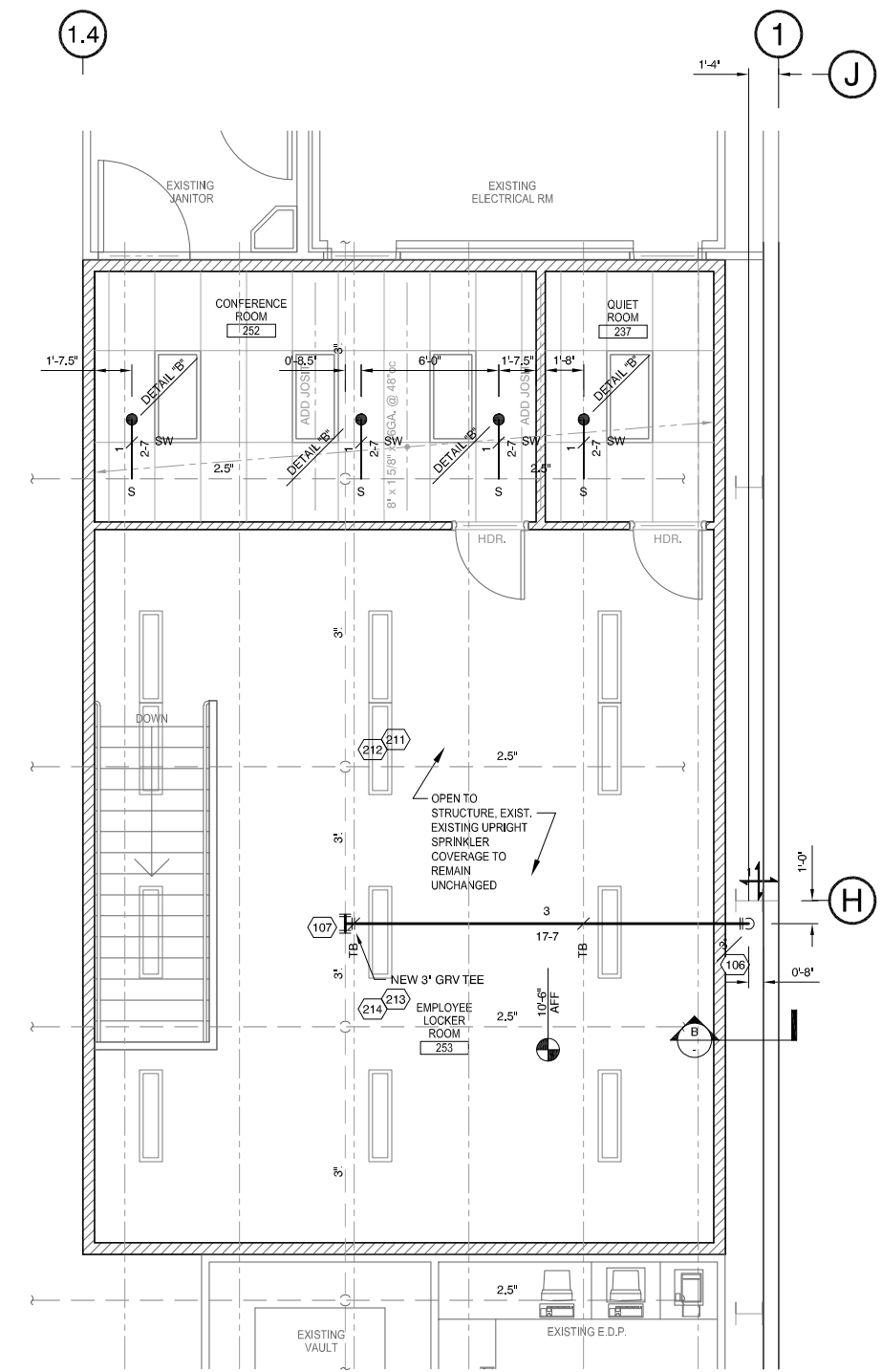
- ALL DROPS ARE TO BE PER DETAIL "A" WITH 1" x 3/4" ADN U.N.O.
- ALL HANGERS ARE TO BE 'SS' U.N.O.
- SEND 30 FT. OF BULK 3/8" ATR FOR CTS HANGER RODS.
- ALL SPRINKLERS TO BE CENTERED IN 2' DIRECTION ONLY OF 2' x 4' TILES EXCLUDING WORK ON OVERTIME OR AFTER HOURS.
- EXCLUDING RELOCATING OR MODIFYING THE EXISTING SPRINKLER SYSTEM TO ACCOMMODATE THE WORK OF OTHER TRADES.
- LATERAL BRACES AND BRANCHLINE RESTRAINT CAN BE OMITTED AS PER NFPA #13, 2016 ED. SECTION 9.3.5.5.10 "THE (LATERAL BRACING) REQUIREMENTS... SHALL NOT APPLY TO PIPES INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6 in. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE."
- SPRINKLER HEADS, VALVES, FITTINGS AND FABRICATION SHALL BE DOMESTIC NORTH AMERICAN MANUFACTURED AS PROVIDED BY VIKING SUPPLY NET AND PER THE NRG SPECIFICATIONS.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

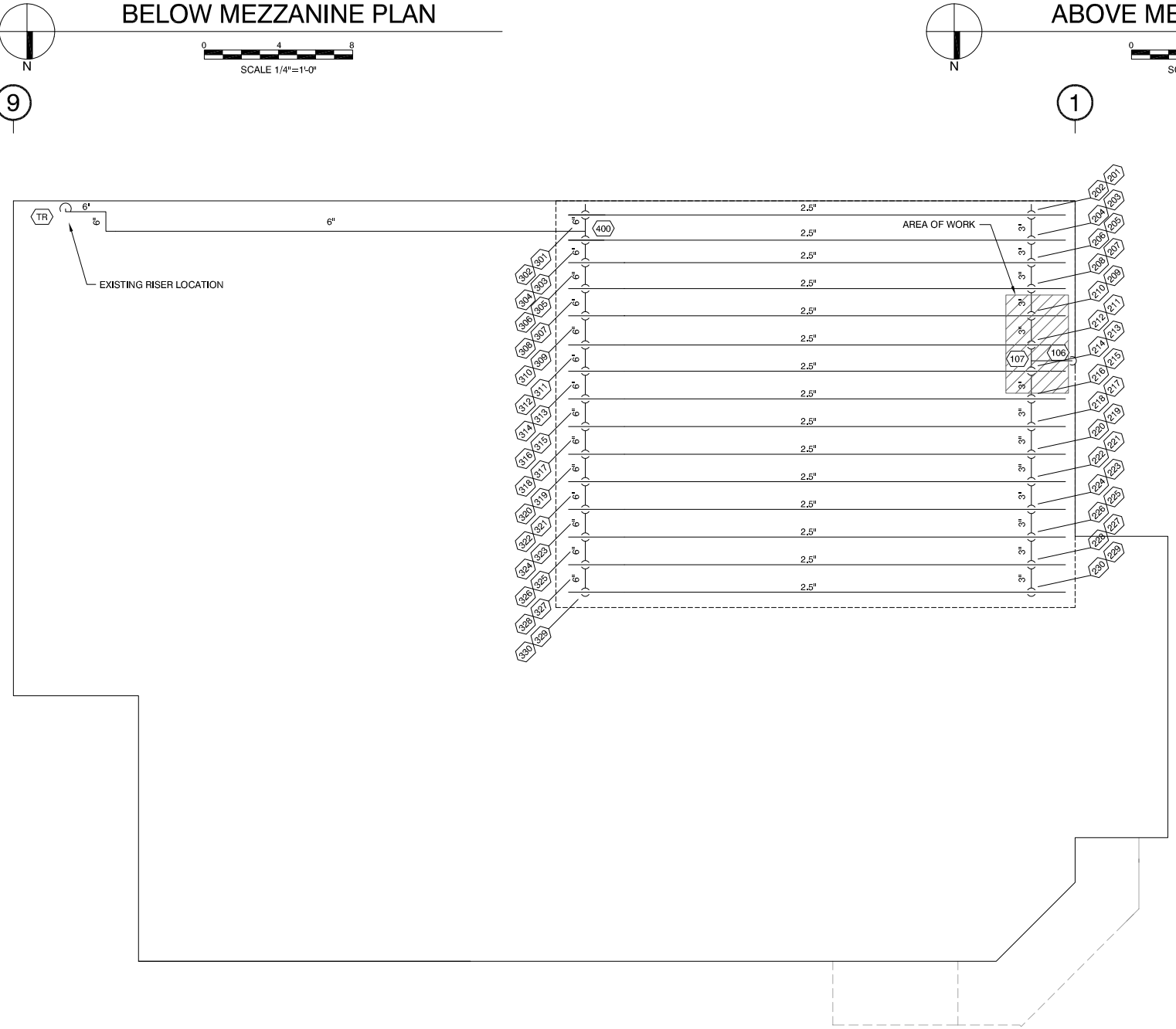
Building	Planning
Engineering	Public Works
Fire	Traffic



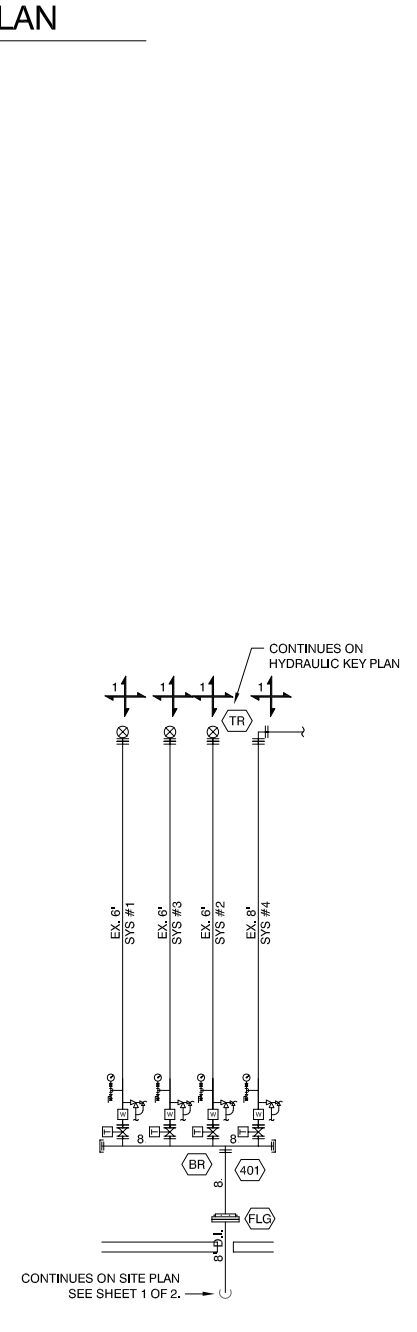
BELOW MEZZANINE PLAN
SCALE 1/4"=1'-0"



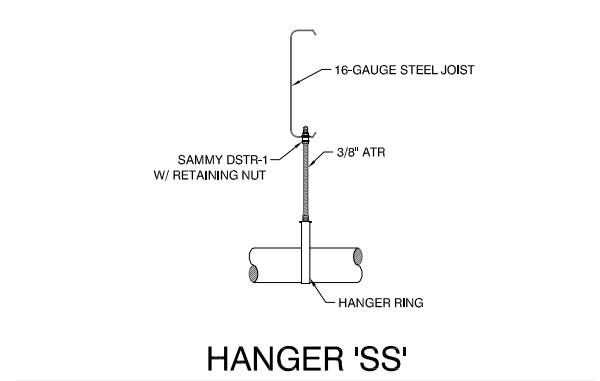
ABOVE MEZZANINE PLAN
SCALE 1/4"=1'-0"



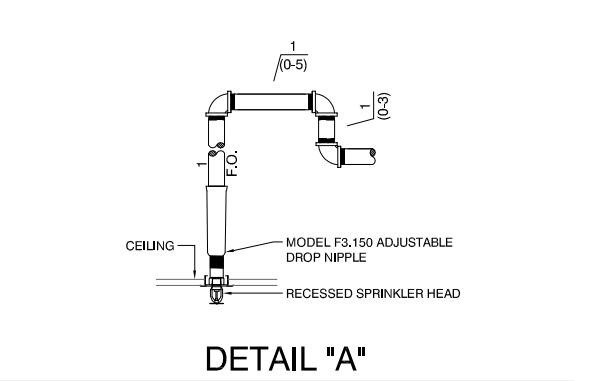
HYDRAULIC KEY PLAN
NTS



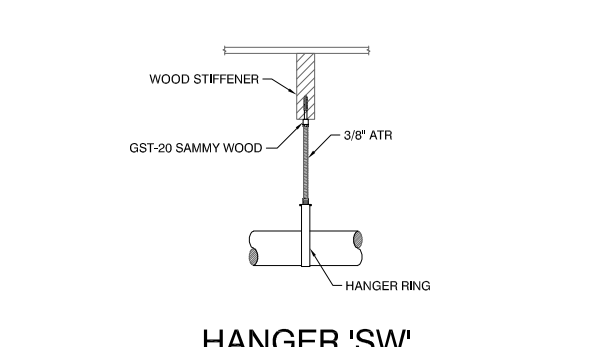
EXISTING RISER
FACING SOUTH
NTS



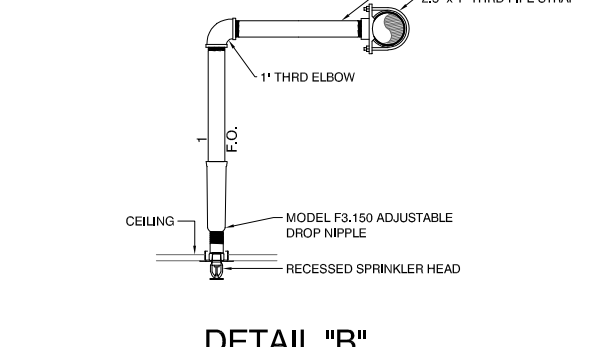
HANGER 'SS'



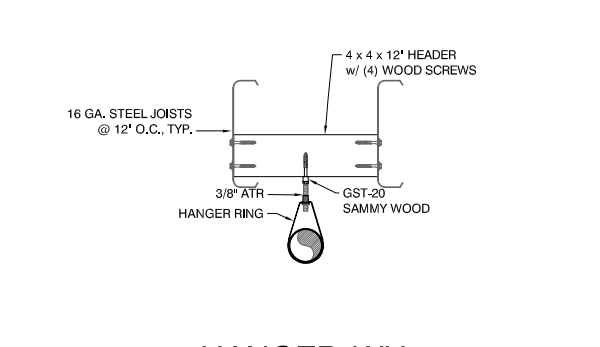
DETAIL "A"



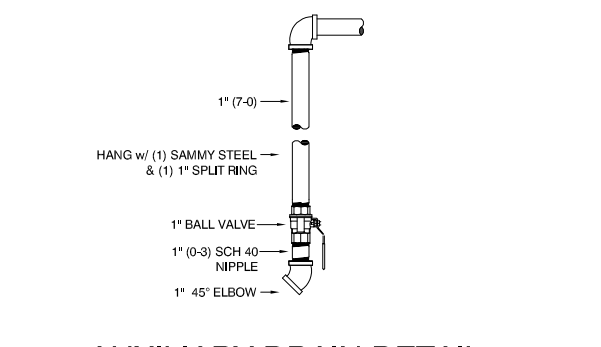
HANGER 'SW'



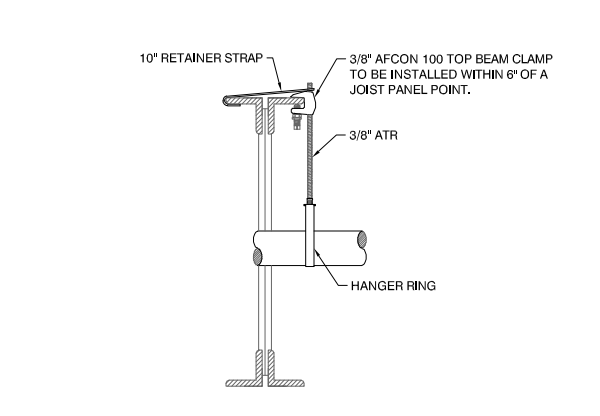
DETAIL "B"



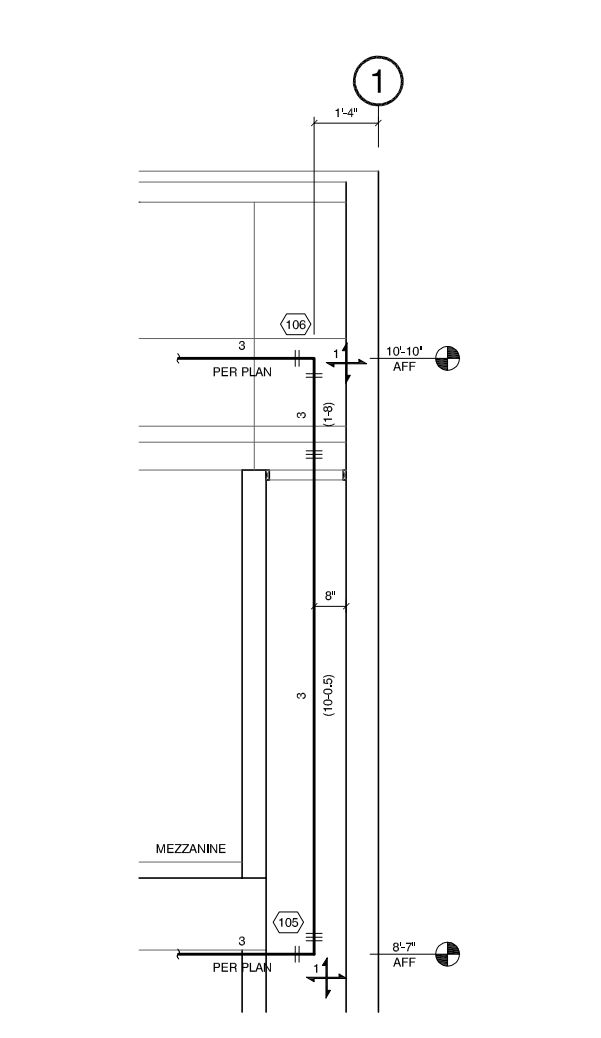
HANGER 'WH'



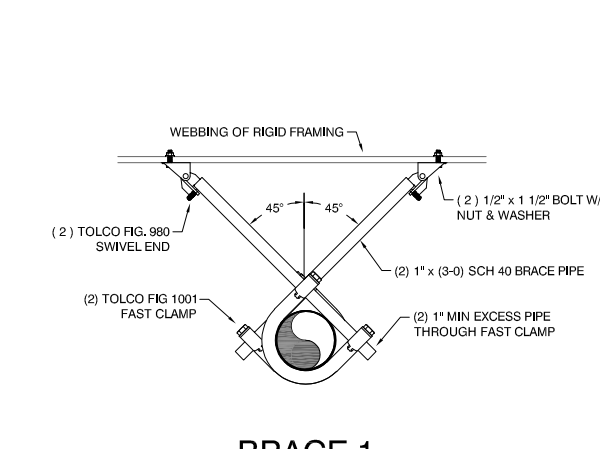
AUXILIARY DRAIN DETAIL



HANGER 'TB'



SECTION B
FACING NORTH
SCALE 1/2"=1'-0"



BRACE 1

ABBREVIATIONS	SYMBOL LEGEND	SYMBOL LEGEND	PIPE LEGEND
APR	ABOVE FINISHED FLOOR	NEW 1" PLUG	NEW SPRINKLER PIPE
BOB	BOTTOM OF BEAM	NEW 1 1/2" PLUG	EXISTING SPRINKLER PIPE
BOJ	BOTTOM OF JOIST	NEW STRAP OUTLET	RELOCATED EXISTING PIPE
BOF	BOTTOM OF FLOOR	NEW MECHANICAL TEE OUTLET	NEW FLEXDROP
BOE	BOTTOM OF EXISTING	RELOCATED EXISTING SPRINKLER	RELOCATED EXISTING FLEX
CTE	CENTRELINE OF TUBES	EXISTING THREADED OUTLET	
FO	FIELD OPERATOR	EXISTING SYSTEM COMPONENT	
FRW	FIELD OPERATOR		
IFW	INSIDE FACE OF WALL		
OPW	OUTSIDE FACE OF WALL		
NS	NO. AUTO SPRINKLER		
UNC	UNLESS NOTED OTHERWISE		
HTC	NOT IN CONTACT		
TR	THREAD ONE END		
TR2	THREAD BOTH ENDS		

SPRINKLER LEGEND											
SYM	MANUFACTURER	S.A.N.	TYPE	MODEL	OPERATING PRESSURE	WATER TEST	FRIST TEST	TEMP. RATED	QUANTITY		
UNCHANGED	SSP	CHR	CHR	5.6K	1/2"	150'	-	-	-		
UNCHANGED	SSU	BRZ	BRZ	5.6K	1/2"	150'	-	-	-		
NEW	VIKING	VK3021	SSP REC	VK3021	WHT	NP-1	5.6K	1/2"	150'	-	7
NEW	VIKING	VK1001	SSU	VK1001	BRZ	-	5.6K	1/2"	200'	-	16
TOTAL NEW									23		

REVISIONS	
NO.	DATE
1	12/31/22

CONTRACT WITH
FERGUSON CONSTRUCTION
13810 SE EASTGATE WAY SUITE 110
BELLVUE, WA 98005

PROJECT MANAGER: JOHN BUTTERFIELD
OFFICE PHONE: 425-974-8400
CELL PHONE: [REDACTED]
EMAIL: JOHN@FERGUSONCONSTRUCTION.COM

SUPERINTENDENT: [REDACTED]
PHONE: [REDACTED]
EMAIL: [REDACTED]

WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE PROTECTION SPRINKLER SYSTEMS

Jim Pommert
6749-0192-C Level 3
Smith Fire Systems, Inc.
SMITHFS1360T

Signature: *Jim Pommert*
Date: 12/31/22

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
Bus: (253) 926-1880 FAX: (253) 926-2350

COSTCO PUYALLUP
BREAKROOM MEZZANINE
1201 39TH AVE SW
PUYALLUP, WA 98373

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
ISRAEL P.	LANE L.	8-4-22	2 OF 2	T122062

!CAUTION! 50% REDUCED PRINTS

SCHEDULE 40 / DOMESTIC SPRINKLER PLAN & DETAILS