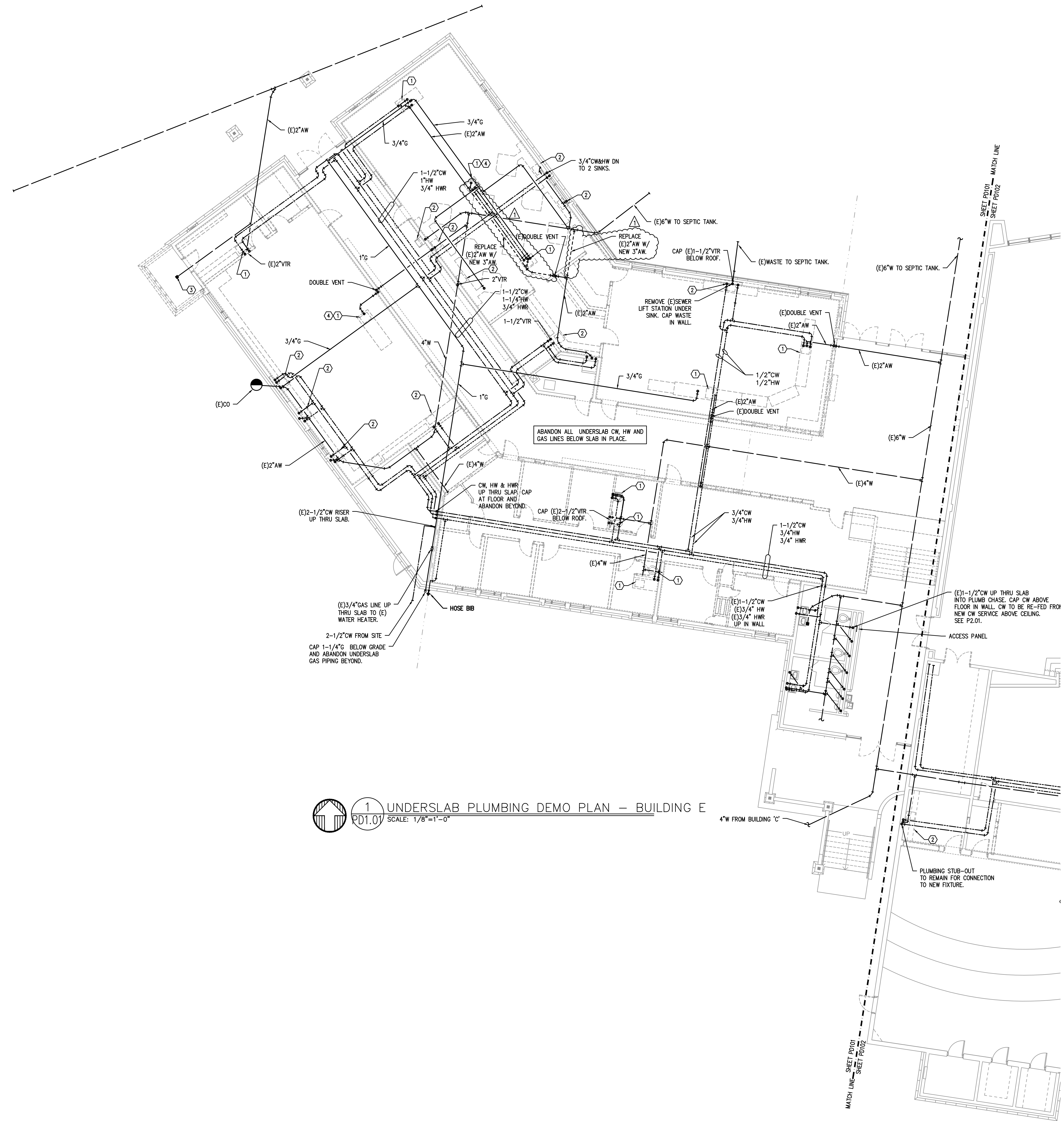


City Of Bend Approval Stamp:

- KEYED NOTES:**
1. REMOVE PLUMBING FIXTURE. CAP WASTE BELOW FLOOR.
 2. REMOVE PLUMBING FIXTURE. CAP WASTE IN WALL.
 3. REMOVE (E)FLOOR DRAIN. PROVIDE NEW CLEAN-OUT AT END OF LINE.
 4. CAP CW, HW AND GAS LINES BELOW FLOOR.

- GENERAL NOTES:**
1. ABANDON ALL UNDERSLAB CW, HW, HWR AND GAS PIPING IN PLACE EXCEPT FOR EXISTING BOYS/GIRLS RESTROOMS. DEMO ALL GALVANIZED DOMESTIC WATER PIPING ABOVE GRADE FOR REPLACEMENT WITH NEW COPPER OR PEX LINES.



1 UNDERSLAB PLUMBING DEMO PLAN – BUILDING E
 PD1.01 SCALE: 1/8"=1'-0"

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

Revision Schedule

BID SET

PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
 1501 NE Neff Road,
 Bend OR 97701

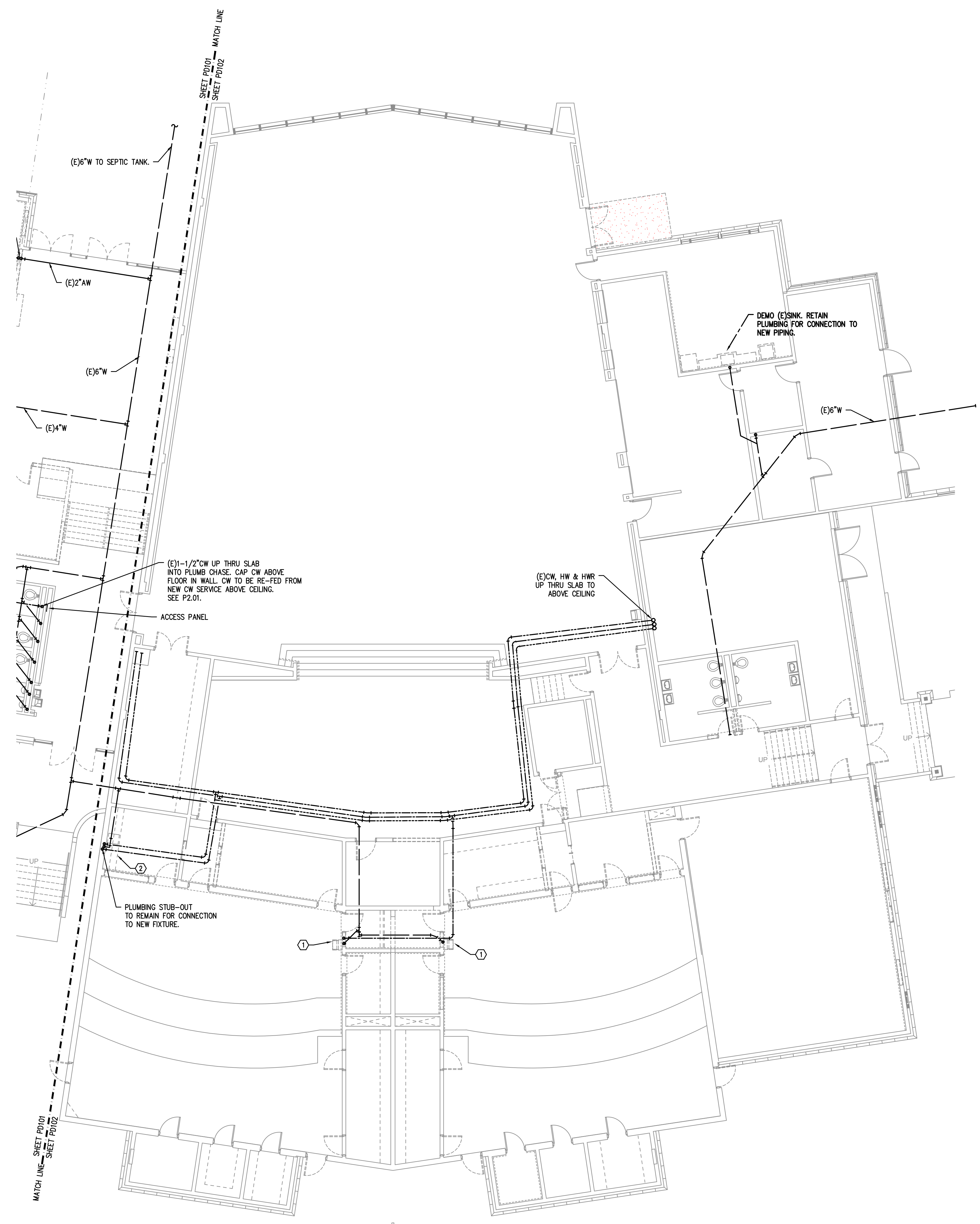
BLRB architects

Drawing Title:
UNDERSLAB PLUMBING DEMO PLAN - BUILDING E

Date: 02.19.2018 Drawn By: TB
 Revised Date: Project No. 17.34B

Stamp: [Professional Engineer Seal for Scott W. Miller, No. 1788, Exp. 31DEC18]
 Sheet No. **PD1.01**

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 Portland, OR 97214
 PHN: (503) 234-0548
 FAX: (503) 234-0677
 CONTACT: TAKAKO BAKER



1 UNDERSLAB PLUMBING DEMO PLAN – BUILDING F
 PD1.02 SCALE: 1/8"=1'-0"

KEYED NOTES:
 1. REMOVE PLUMBING FIXTURE, CAP WASTE BELOW FLOOR.
 2. REMOVE PLUMBING FIXTURE, CAP WASTE IN WALL.

GENERAL NOTES:
 1.

City Of Bend Approval Stamp:

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

Revision Schedule

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PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
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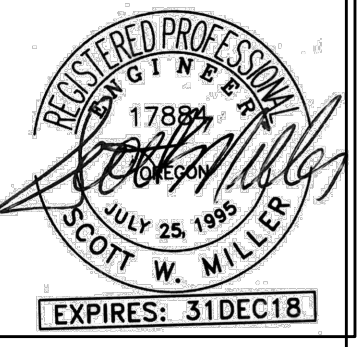
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PLUMBING UNDERSLAB DEMO PLAN - BUILDING F

Date : 02.19.2018 Drawn By : TB
 Revised Date : Project No. 17.34B

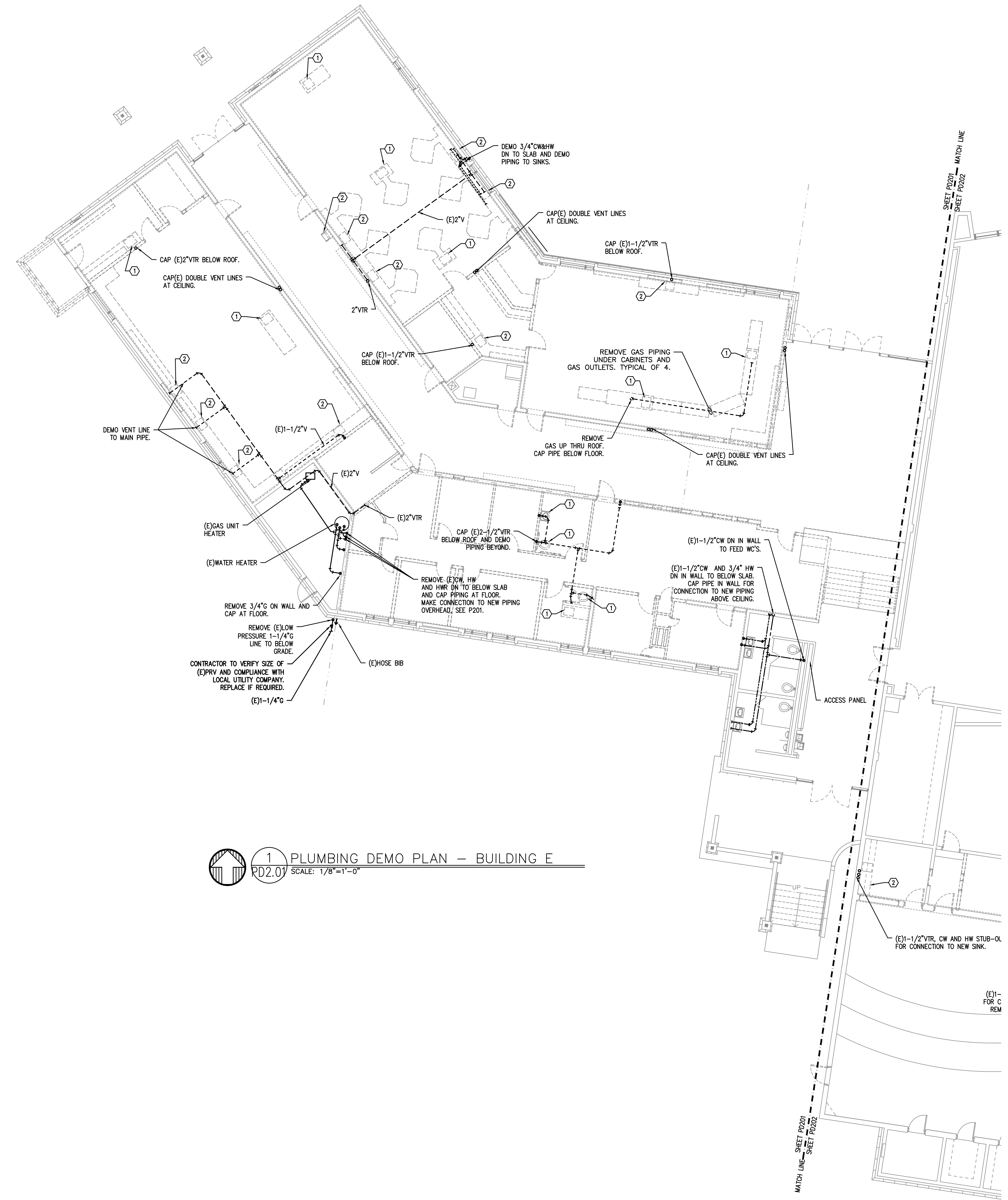
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 INC. WWW.MEIA-ENG.COM
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PD1.02

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- KEYED NOTES:**
1. REMOVE PLUMBING FIXTURE, DEMO CW & HW LINES AND ABANDON PIPES TO BELOW SLAB. ALL PIPING BEYOND TO BE ABANDONED IN PLACE.
 2. REMOVE PLUMBING FIXTURE, DEMO CW&HW PIPE TO WALL, ALL PIPING BEYOND TO BE ABANDONED IN PLACE.

1 PLUMBING DEMO PLAN -- BUILDING E
 PD2.01 SCALE: 1/8"=1'-0"

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

Revision Schedule

BID SET

PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
 1501 NE Neff Road,
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Drawing Title:
PLUMBING DEMO PLAN - BUILDING E

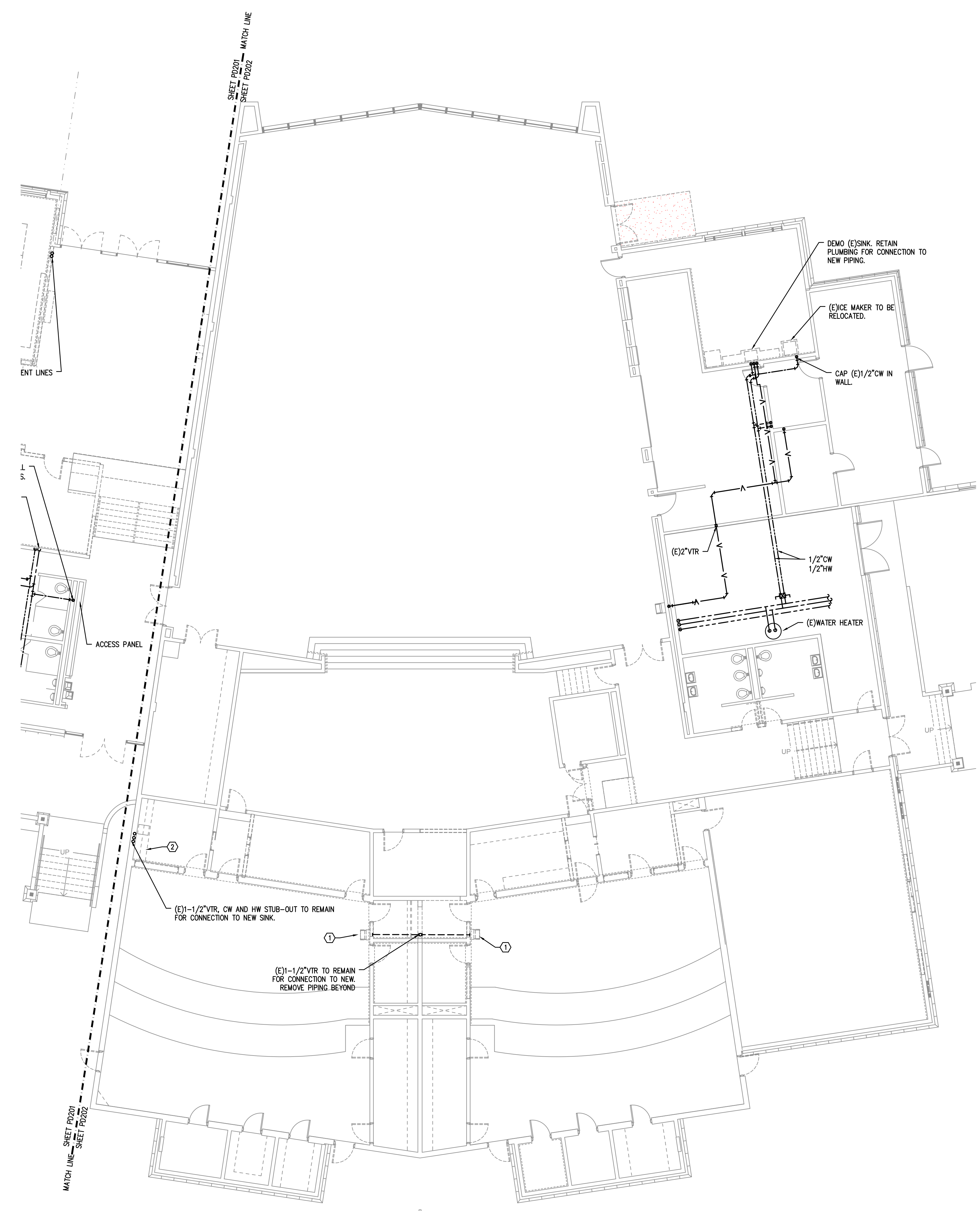
Date: 02.19.2018 Drawn By: TB
 Revised Date: Project No. 17.34B

Stamp: Sheet No. **PD2.01**

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 CONTACT: TAKAKO BAKER

1 2 3 4 5 6

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City Of Bend Approval Stamp:

1. REMOVE PLUMBING FIXTURE, DEMO CW & HW LINES AND ABANDON PIPES TO BELOW SLAB. ALL PIPING BEYOND TO BE ABANDONED IN PLACE.
2. REMOVE PLUMBING FIXTURE, DEMO CW&HW PIPE TO WALL. ALL PIPING BEYOND TO BE ABANDONED IN PLACE.

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

Revision Schedule

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PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
 1501 NE Neff Road,
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Drawing Title:
**PLUMBING DEMO PLAN
 BUILDING F**

Date :	02.19.2018	Drawn By :	TB
Revised Date :		Project No. :	17.34B

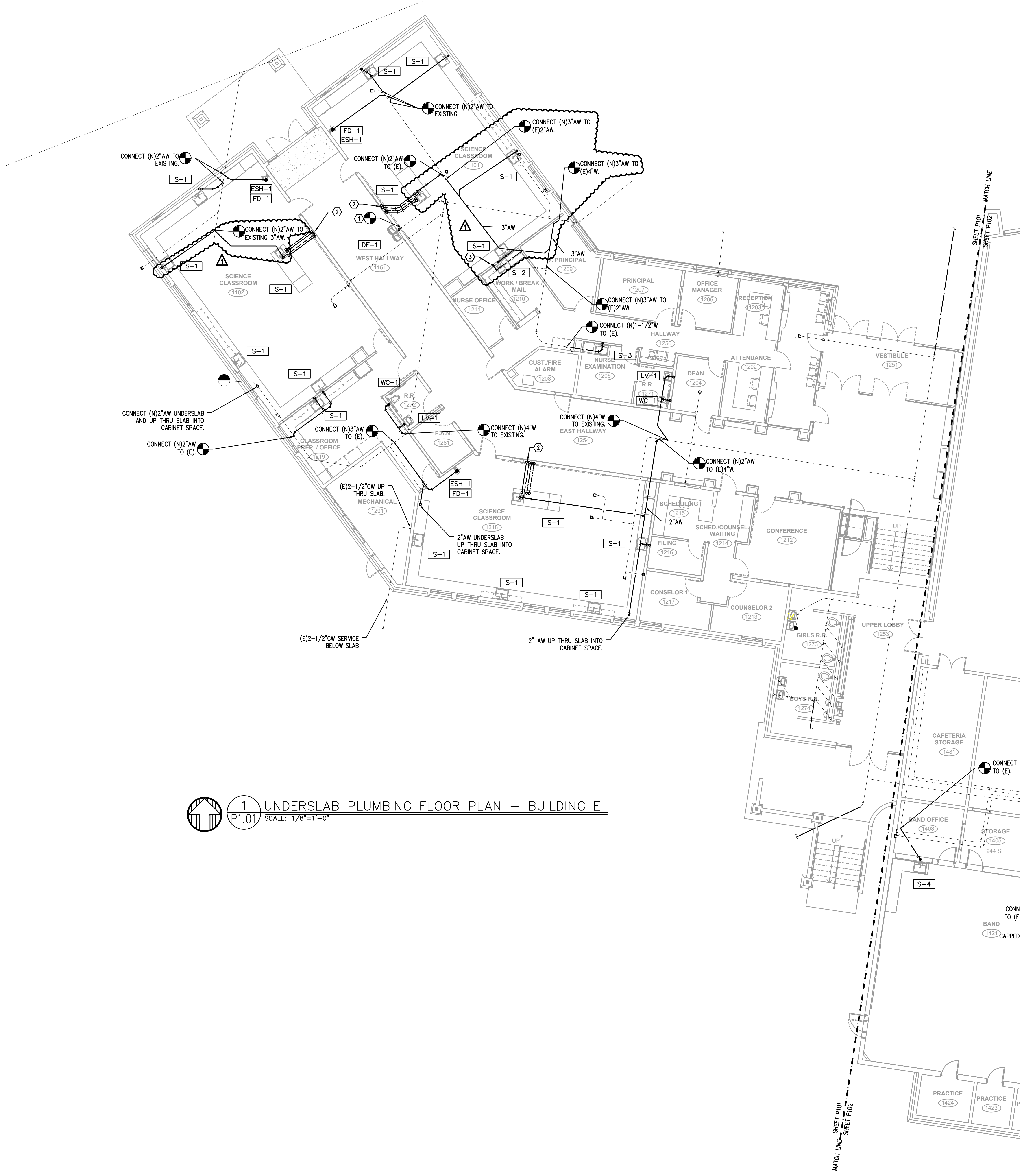
Stamp	Sheet No.
	<p>PD2.02</p>

1 PLUMBING DEMO PLAN - BUILDING F
 RD2.02 SCALE: 1/8"=1'-0"

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 CONTACT: TAKARO BAKER

KEYED NOTES:
 1. CONNECT (E)WASTE TO NEW PLUMBING FIXTURE.
 2. 1/2"CS, 1/2"CWASHW AND 1-1/2"V TO ISLAND PLUMBING FIXTURE UP IN WALL.
 3. 1/2"CW UP IN WALL. DISCHARGE TO TOP OF 3"AW PIPE FOR DILUTION.

City Of Bend Approval Stamp:



1 UNDERSLAB PLUMBING FLOOR PLAN - BUILDING E
 P1.01 SCALE: 1/8"=1'-0"

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

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PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
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Drawing Title:
UNDERSLAB PLUMBING FLOOR PLAN - BUILDING E

Date: 02.19.2018 Drawn By: TB
 Revised Date: Project No. 17.34B

Stamp:

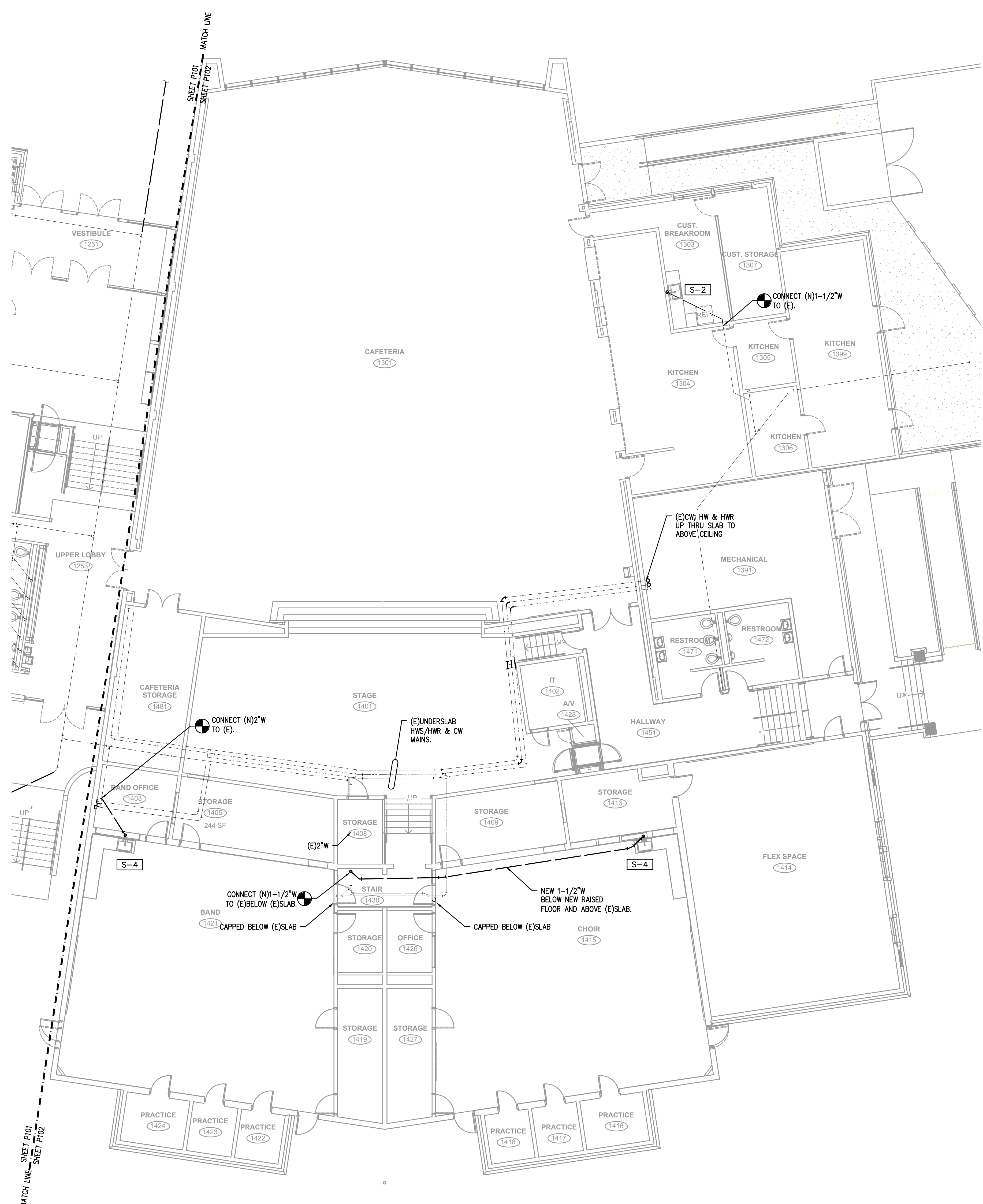
Sheet No. **P1.01**

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City Of Bend Approval Stamp:



1 UNDERSLAB PLUMBING FLOOR PLAN - BUILDING F
 P1.02 SCALE: 1/8"=1'-0"

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

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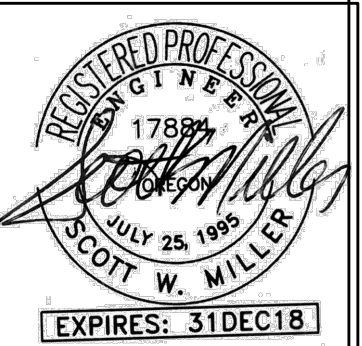
Drawing Title:
UNDERSLAB PLUMBING FLOOR PLAN - BUILDING F

Date: 02.19.2018 Drawn By: TB

Revised Date: Project No. 17.34B

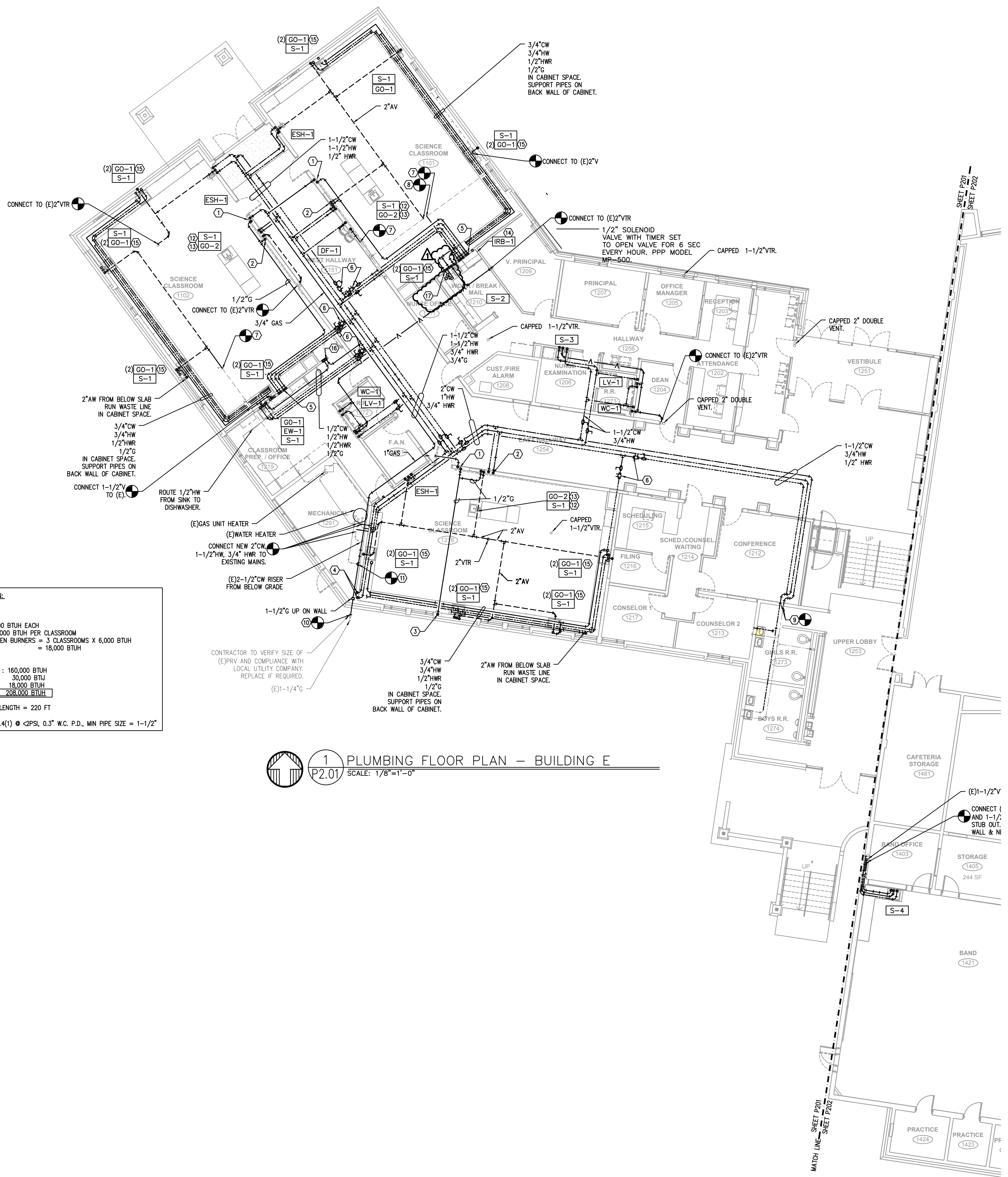
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 Portland, OR 97214
 PHN: (503) 234-0548
 FAX: (503) 234-0677
 WWW.MEDIA-ENG.COM
 CONTACT: TAKAHO BAKER



P1.02

BLRB ARCHITECTS, P.S.



GAS PIPING CALCULATION:

LOAD:
 BUNSEN BURNERS @ 1200 BTUH EACH
 5 PER CLASSROOM = 6,000 BTUH PER CLASSROOM
 TOTAL LOAD FROM BUNSEN BURNERS = 3 CLASSROOMS X 6,000 BTUH = 18,000 BTUH

TOTAL BUILDING LOAD:
 EXISTING WATER HEATER : 160,000 BTUH
 EXISTING UNIT HEATER : 30,000 BTUH
 BUNSEN BURNERS : 18,000 BTUH
TOTAL : 208,000 BTUH

TOTAL DEVELOPED PIPE LENGTH = 220 FT
 PER OMSC TABLE C 402.4(1) @ $2PSI, 0.3'' W.C. P.D., MIN PIPE SIZE = 1-1/2''$

1 PLUMBING FLOOR PLAN - BUILDING E
 P2.01 SCALE: 1/8"=1'-0"

- KEYED NOTES:**
- SCIENCE CLASSROOM EMERGENCY GAS SHUT-OFF. SEE 6/P6.01 FOR DETAIL.
 - 1-1/2"V, 1/2"CW/HW AND 1/2"CG DN IN WALL AND UNDERSLAB TO ISLAND FIXTURE.
 - 3/4"CG DN IN WALL TO CABINET SPACE.
 - 3/4"CW/HW DN IN WALL TO CABINET SPACE.
 - 3/4"CW & HW, 1/2" HWR DN IN WALL TO CABINET SPACE.
 - BALANCE VALVE, SET TO 0.5 GPM.
 - CONNECT (N)1-1/2"AV TO (E).
 - CONNECT (N)2"AV TO (E).
 - CONNECT 1-1/2"CW&3/4 HW TO (E)GALVANIZED PIPING AT WALL.
 - CONNECT (N)1-1/2"CG TO (E)PRV. PIPE THRU EXISTING WALL ABOVE GRADE AND CLOSE TO MECH FLOOR ELEVATION.
 - CONNECT (E)3/4"CG TO NEW 1-1/2"CG.
 - SEE 2/P6.01 FOR ISLAND FIXTURE INSTALLATION DETAIL.
 - SEE 5/P6.03 FOR UNDERSLAB GAS PIPING DETAIL.
 - 1/2" CW TO REFRIGERATOR.
 - PROVIDE (1)GAS OUTLET, GO-1, ON EACH SIDE OF STUDENT SINK. SEE ARCHITECTURAL.
 - 1/2" GAS TO MANUAL SHUT-OFF VALVE. SEE 2/P6.01.
 - 1/2" CW DN IN WALL TO SOLENOID VALVE. INSTALL SOLENOID VALVE UNDER CABINET. SET TIMER TO OPEN VALVE FOR 6 SECS EVERY HOUR. PPP MODEL MP-500.

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

Revision Schedule

BID SET

PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
 1501 NE Neff Road,
 Bend OR 97701

BLRB architects

Drawing Title:
PLUMBING FLOOR PLAN - BUILDING E

Date : 02.19.2018 Drawn By : TB
 Revised Date : Project No. 17.34B
 Stamp Sheet No.

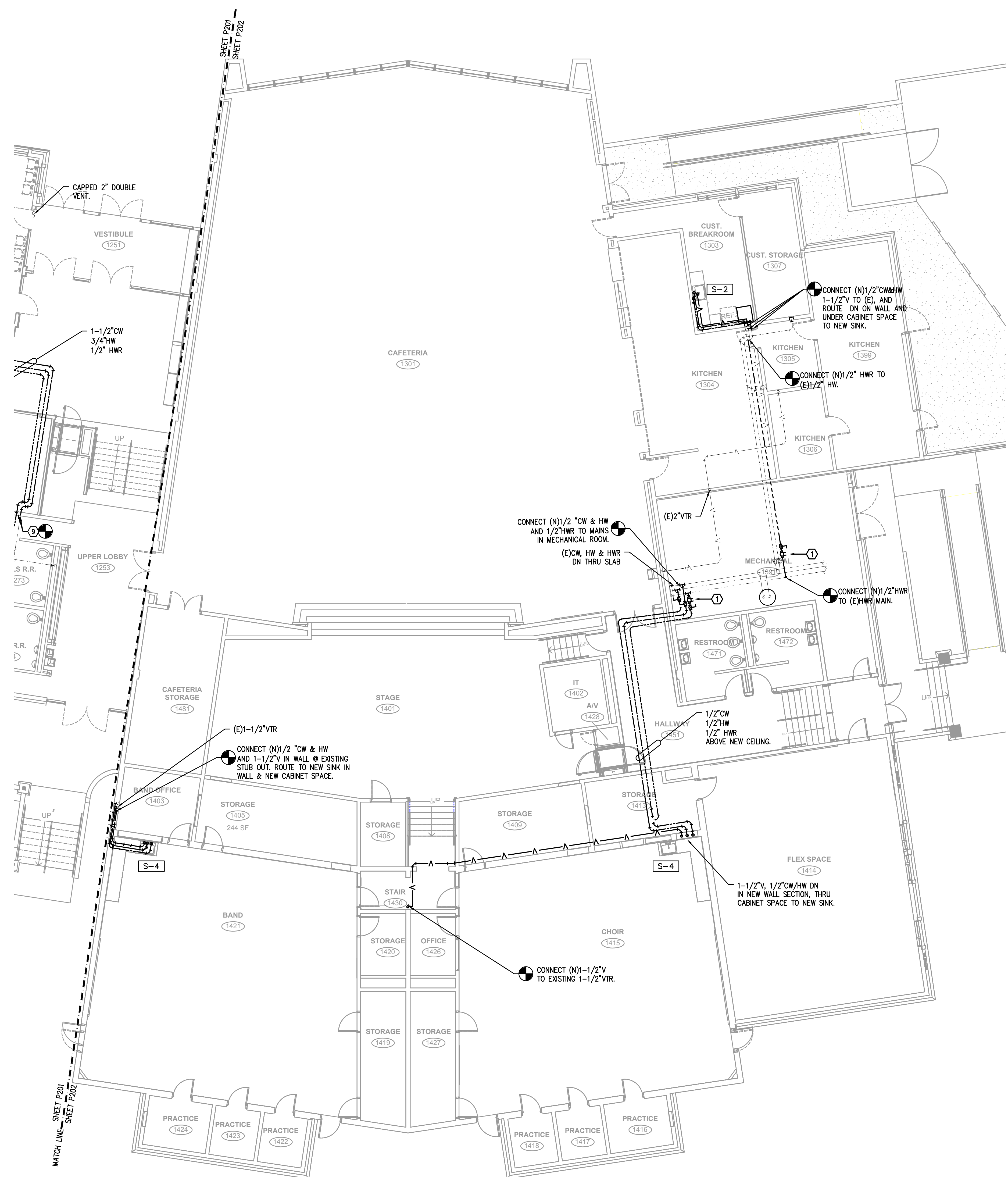
P2.01

EXPIRES: 31DEC18

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 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0549
 FAX: (503) 234-0877
 WWW.MPIA-ENG.COM
 CONTACT: TAKAKO BAKER

KEYED NOTES:
 1. BALANCE VALVE, SET TO 0.5 GPM.

City Of Bend Approval Stamp:



1 PLUMBING FLOOR PLAN - BUILDING F
 SCALE: 1/8"=1'-0"

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

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PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F

1501 NE Neff Road,
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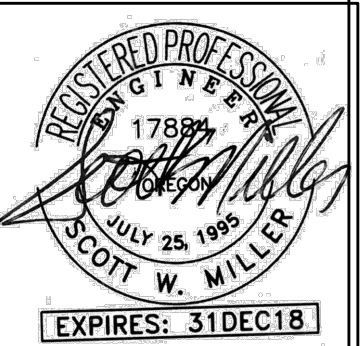
Drawing Title:
**PLUMBING FLOOR PLAN
 BUILDING F**

Date: 02.19.2018 Drawn By: TB

Revised Date: Project No. 17.34B

Stamp Sheet No.

M F A INC.
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 WWW.MFA-ENG.COM
 CONTACT: TAKAHO BAKER



P2.02

PLUMBING LEGEND

AFF	ABOVE FINISHED FLOOR	--- (CW)	COLD WATER
ARCH	.....	ARCHITECTURAL	--- (HW)	HOT WATER
B.G.	.....	BELOW GRADE	--- (HWR)	HOT WATER RECIRC
BTU	.....	BRITISH THERMAL UNIT	--- (HT)	HOT WATER HEAT TRACED
CAP	.....	CAPACITY	--- (W)	BELOW GRADE WASTE
C.I.	.....	CAST IRON	--- (AW)	BELOW GRADE ACID WASTE
COMP.	.....	COMPARTMENT	--- (V)	VENT
CONT.	.....	CONTINUATION	--- AV	(AV) ACID VENT
CU.	.....	CUBIC	--- RD	(RD) RAIN DRAIN
DF	.....	DRINKING FOUNTAIN	--- OD	(OD) OVERFLOW RAIN DRAIN
DI	.....	DIAMETER	--- FDC	(FDC) FIRE DEPARTMENT CONNECTION
DIA	.....	DIA	--- A	(A) COMPRESSED AIR
ELEV.	.....	ELEVATION	--- PHW	(PHW) PROCESS HOT WATER
EWC	.....	ELECTRIC WATER COOLER	--- PCW	(PCW) PROCESS COLD WATER
FD	.....	FLOOR DRAIN	--- VAC	VACUUM
FDC	.....	FIRE DEPARTMENT CONNECTION	--- G	(G) NATURAL GAS
F.F.	.....	FINISH FLOOR	--- F	(F) FIRE WATER
FLG.	.....	FLANGE	--- GW	(GW) GREASE WASTE
FT	.....	FOOT / FEET		
G	.....	GAS		
GA.	.....	GAUGE		
GALV.	.....	GALVANIZED		
GPM	.....	GALLONS PER MINUTE		
G.V.	.....	GATE VALVE		
HP	.....	HORSEPOWER		
HR.	.....	HOUR		
I.E.	.....	INVERT ELEVATION		
KW	.....	KILOWATT		
LAV	.....	LAVATORY		
LBS	.....	POUNDS		
MAX.	.....	MAXIMUM		
MBH	.....	THOUSANDS OF BTUs PER HOUR		
MIN.	.....	MINIMUM		
M.J.	.....	MECHANICAL JOINT		
N.I.M.	.....	NOT IN MECHANICAL		
OS&Y	.....	OUTSIDE STEM & YOKE		
PROT.	.....	PROTECTION		
PRV	.....	PRESSURE REDUCING VALVE		
PSI	.....	POUNDS PER SQUARE INCH		
P/T	.....	PRESSURE / TEMPERATURE		
REQ'D	.....	REQUIRED		
RPBP	.....	REDUCED PRESSURE BACKFLOW PREVENTER		
RPM	.....	REVOLUTIONS PER MINUTE		
TYP.	.....	TYPICAL		
UR	.....	URINAL		
VTR	.....	VENT THROUGH ROOF		
WC	.....	WATER CLOSET		

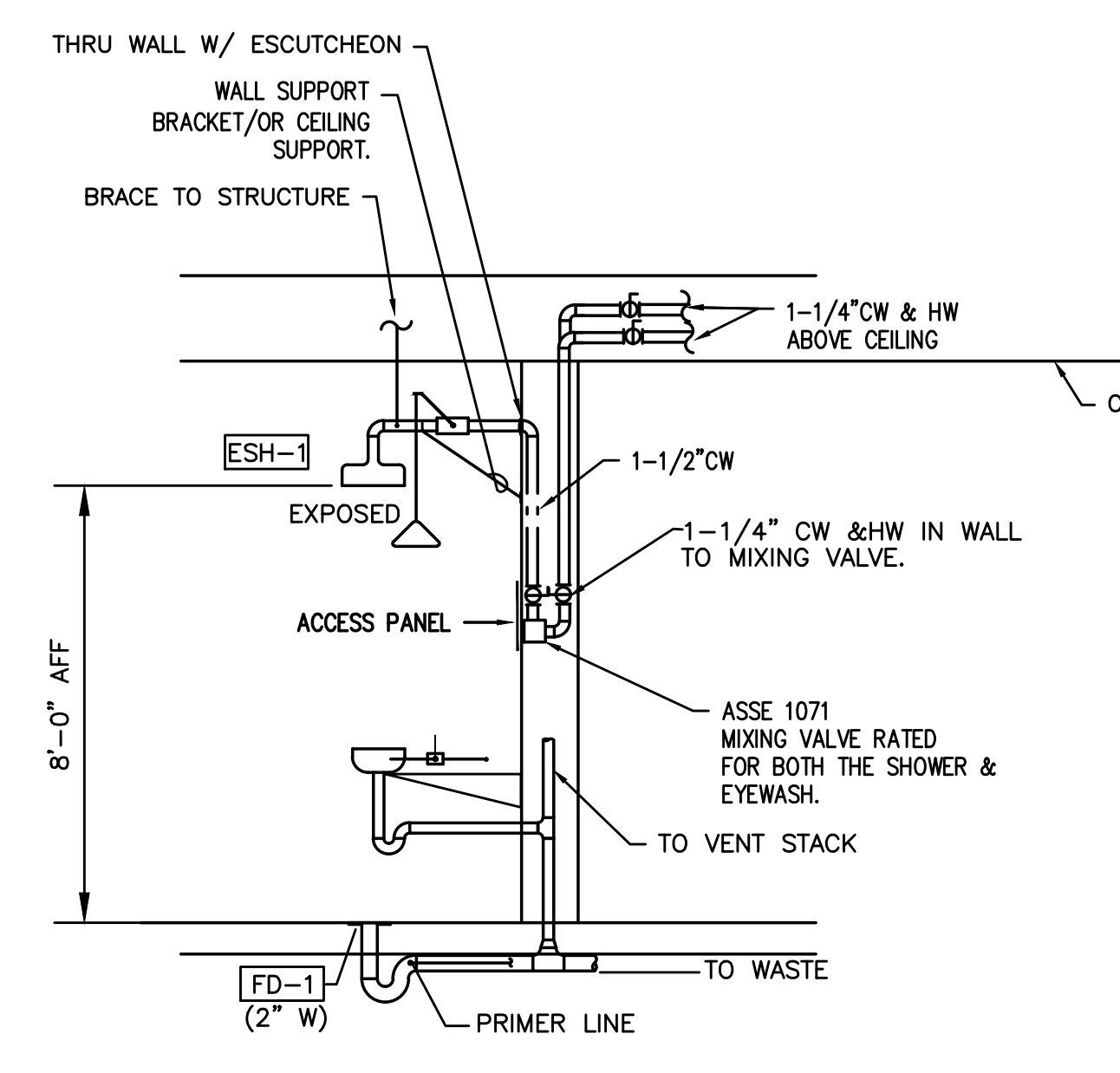
△	.....	PRESSURE/TEMP RELIEF VALVE
∩	.....	BUTTERFLY VALVE
⊕	.....	GAS PRESSURE REGULATING VALVE
⊕ OR ⊖	.....	TOP CONNECTION
⊖ OR ⊕	.....	BOTTOM CONNECTION
⊕	.....	PIPE TURNED UP, PIPE TURNED DOWN
⊕	.....	GATE VALVE
⊕ OR ⊖	.....	BALL VALVE
⊕	.....	BALANCING VALVE
⊕	.....	CHECK VALVE
⊕	.....	UNION
⊕	.....	DOUBLE CHECK ASSEMBLY

⊕	.....	EQUIPMENT MARK NUMBER
XXX	.....	FIXTURE MARK
(E)	.....	EXISTING
#	.....	NOTE
⊕	.....	CONNECT TO EXISTING
⊕	.....	CAP
⊕	.....	TEE
⊕	.....	ELBOW
⊕	.....	CLEANOUT

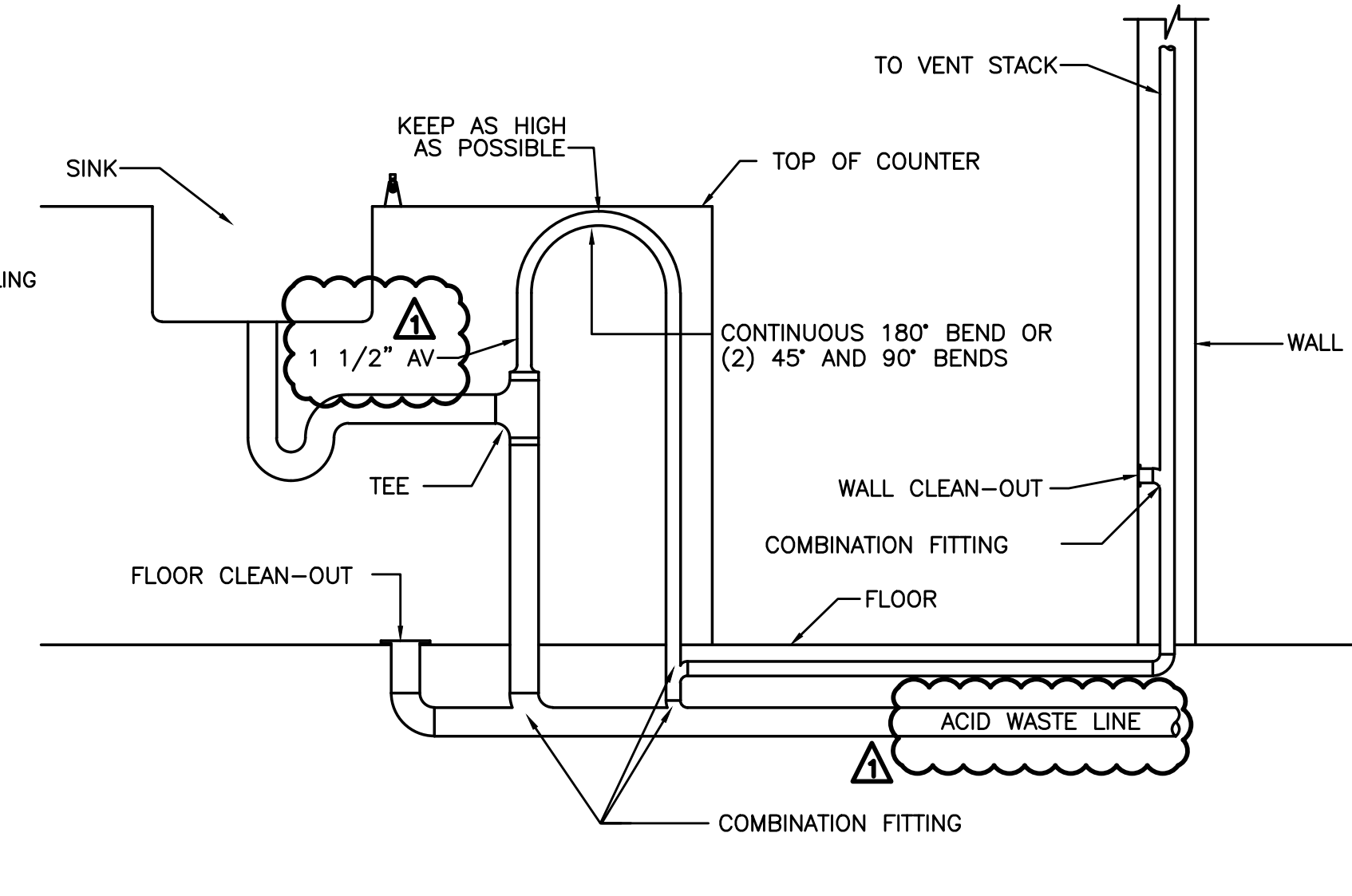
PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	W	V	CW	HW	REMARKS
ESH-1	EMERGENCY SHOWER AND EYE WASH	2"	V.L.	1-1/4"	1-1/4"	SEE SPECS, SEE 1/P6.01
EW-1	EMERGENCY EYE WASH			1/2"	1/2"	SEE SPECS
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNT, SEE SPECS.
S-1	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SCIENCE CLASSROOM SINK
S-2	SINK	1-1/2"	1-1/2"	1/2"	1/2"	BREAKROOM
S-3	SINK	1-1/2"	1-1/2"	1/2"	1/2"	NURSE
S-4	SINK	1-1/2"	1-1/2"	1/2"	1/2"	BAND/CHOIR ROOM
IRB-1	ICE/FRIDGE BOX			1/2"		GUY GRAY BIM 875 OR EQUAL
GO-1	GAS OUTLET					1/2", DECK MOUNTED
WC-1	WATER CLOSET	3"	2"	1"		WALL MOUNT, FLUSH VALVE, ADA
FD-1	FLOOR DRAIN	2"	V.L.			J.R. SMITH 2005A (ROUND) OR EQUAL APPROVED.
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"		DUAL HEIGHT, WITH BOTTLER FILTER

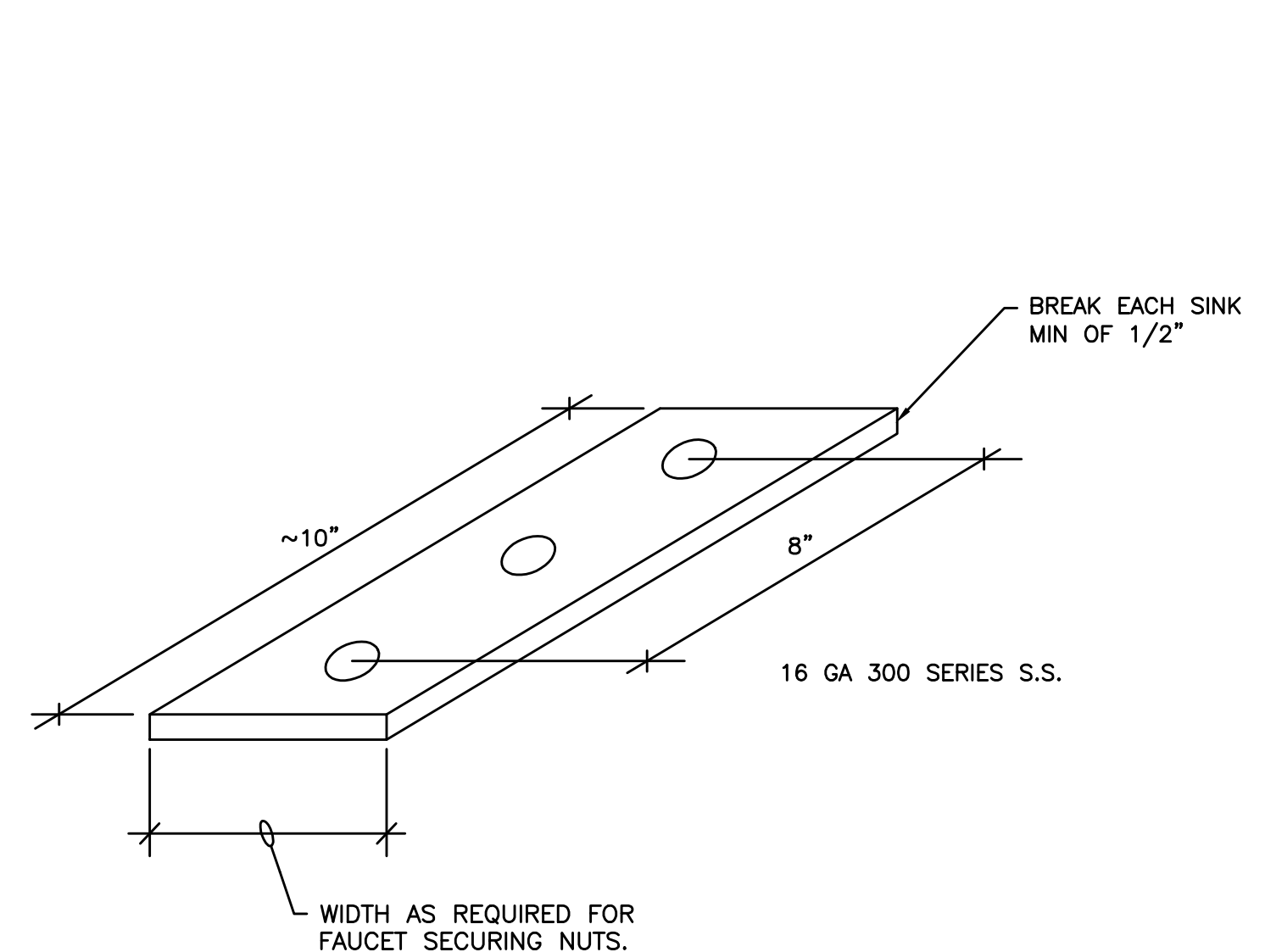
* PROVIDE W/ WALL CLEAN-OUT BELOW EACH SINK



1 EMERGENCY SHOWER/EYE WASH DETAIL
SCALE: DETAIL

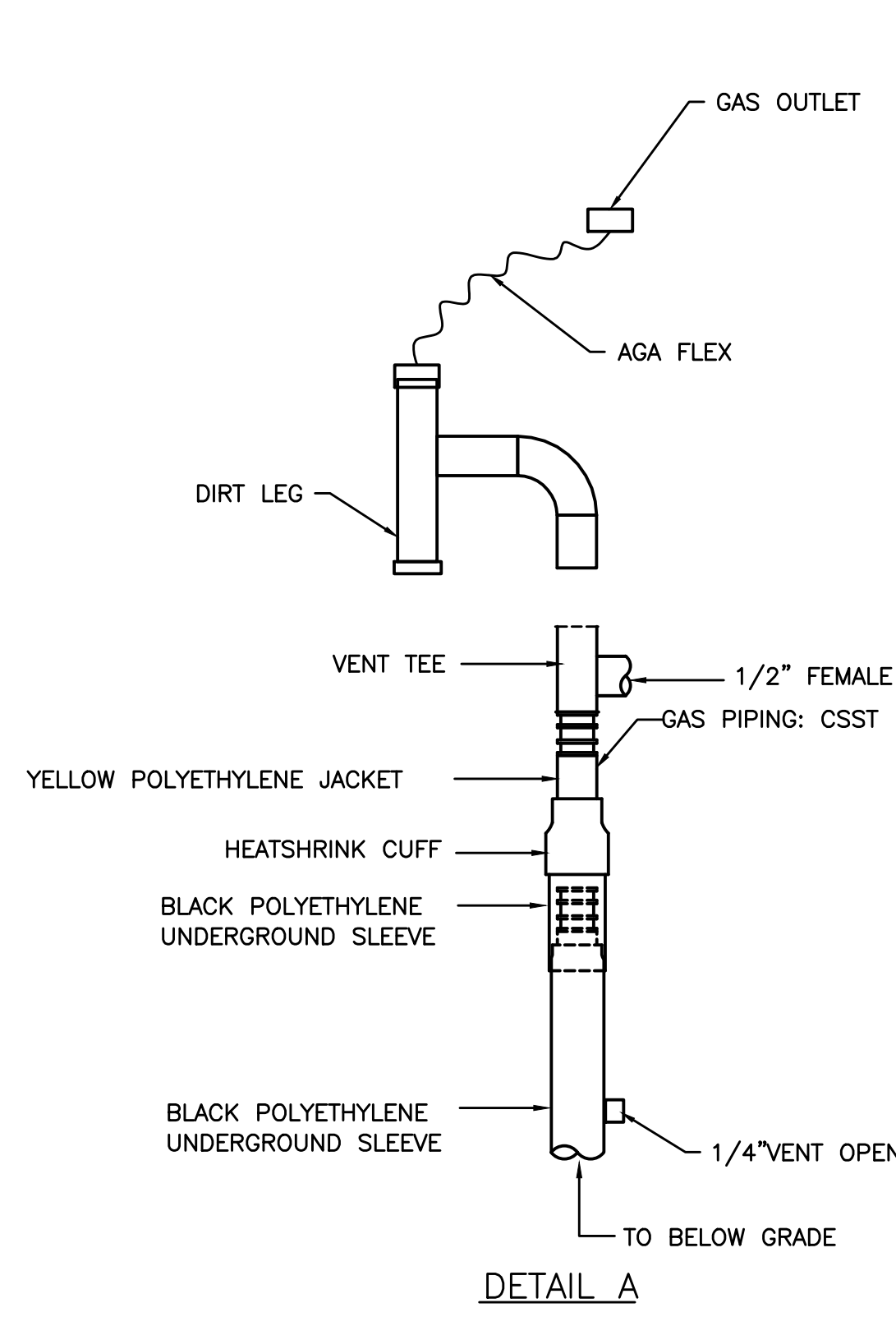


2 ISLAND SINK
SCALE: DETAIL

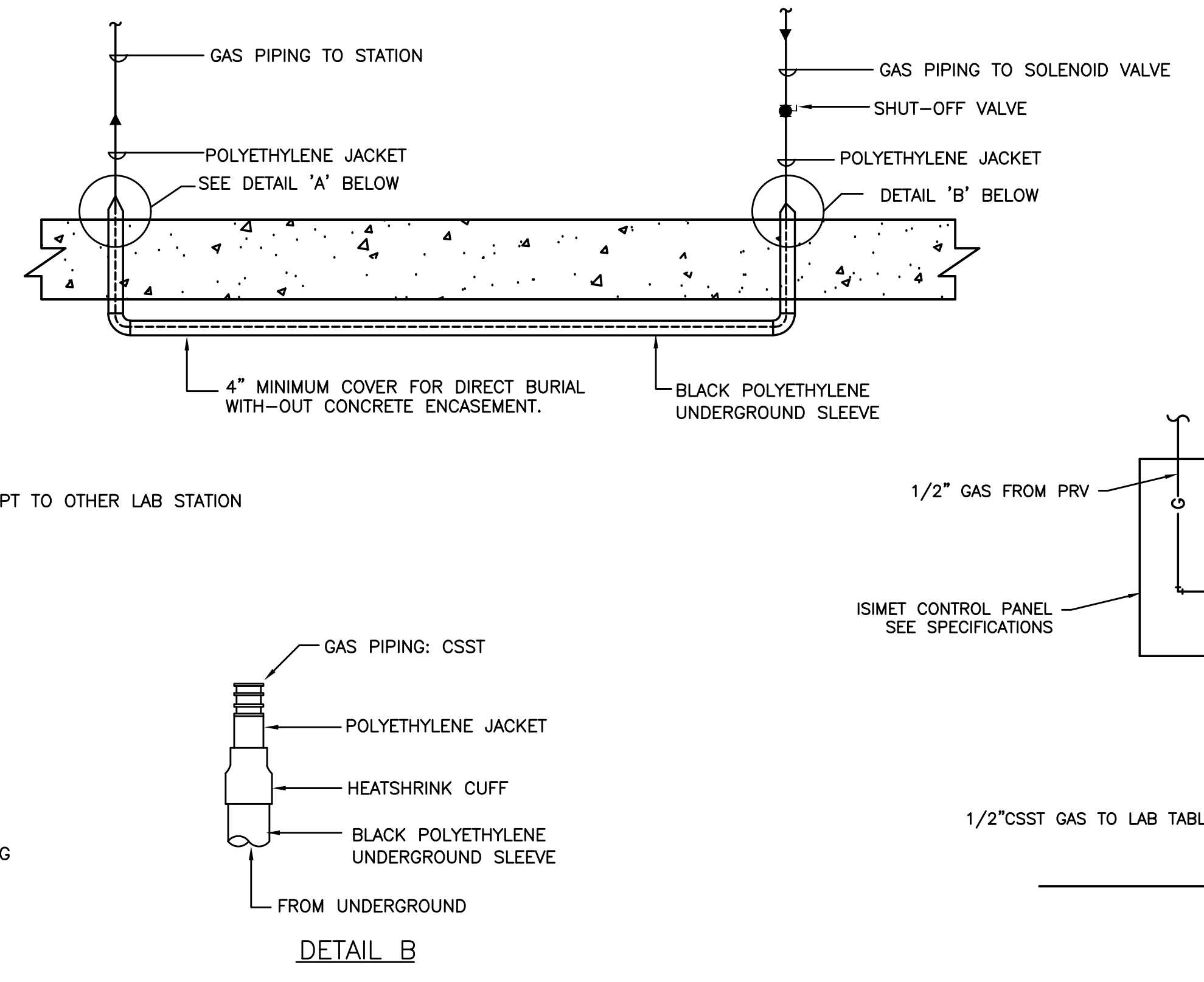


3 SINK REINFORCEMENT
SCALE: DETAIL

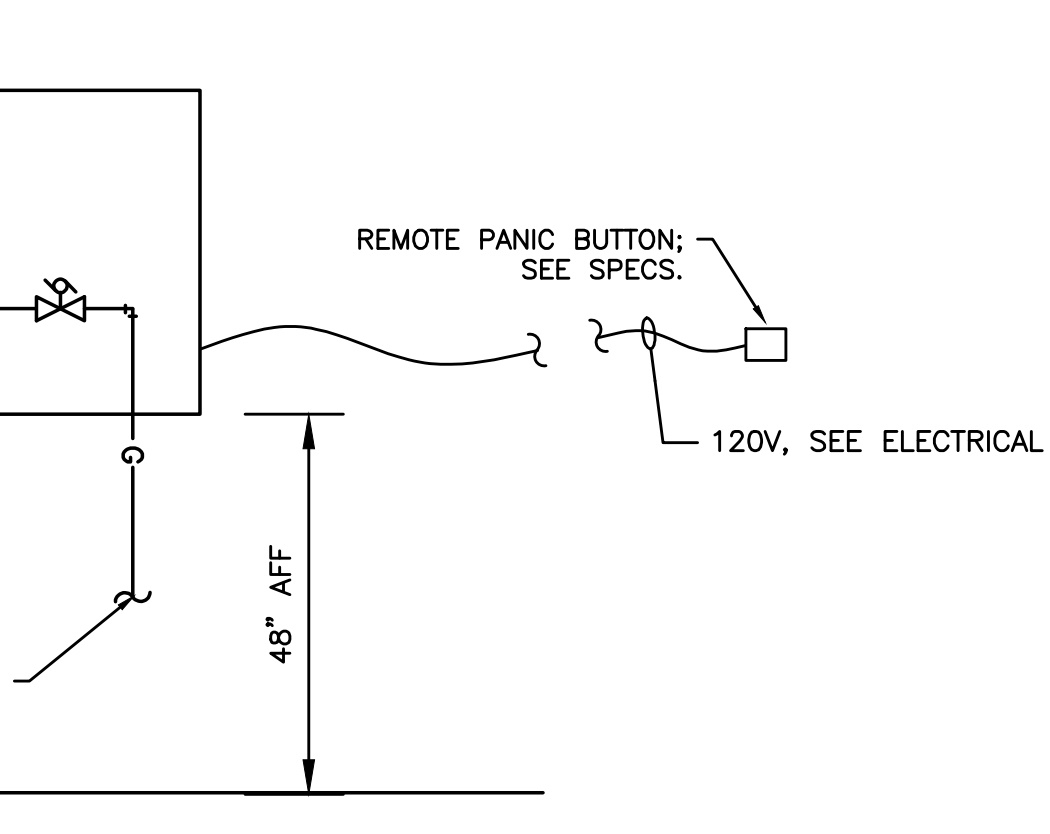
City Of Bend Approval Stamp:



5 GAS PIPING UNDERGROUND
NOT TO SCALE



6 LAB GAS AUTO SHUT-OFF VALVE
SCALE: DETAIL



7 LAB GAS MANUAL SHUT-OFF VALVE
SCALE: DETAIL

#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

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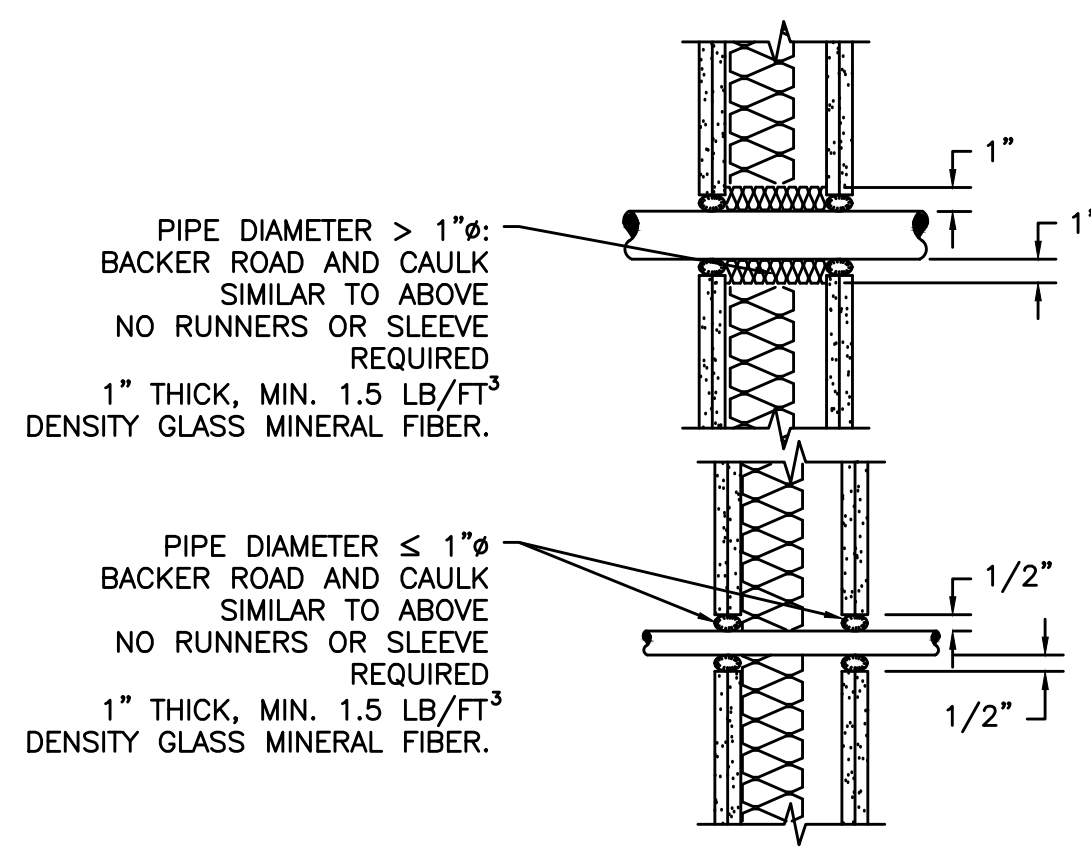
PILOT BUTTE MIDDLE SCHOOL - BLDGS E&F
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BLRB architects

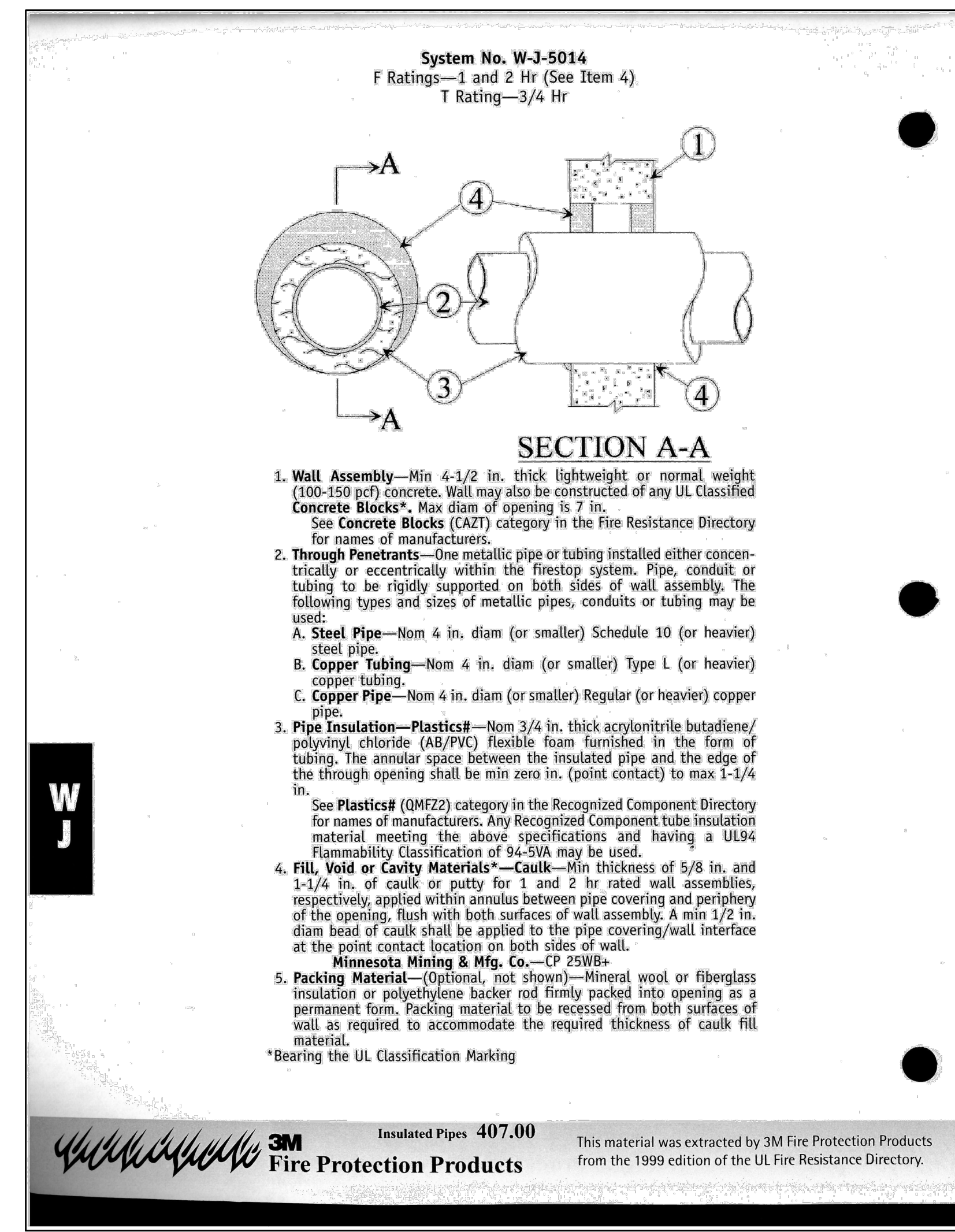
Drawing Title:
PLUMBING LEGEND AND SCHEDULES

Date: 02.19.2018 Drawn By: TB
Revised Date: Project No. 17.34B
Stamp: Sheet No.
P6.01

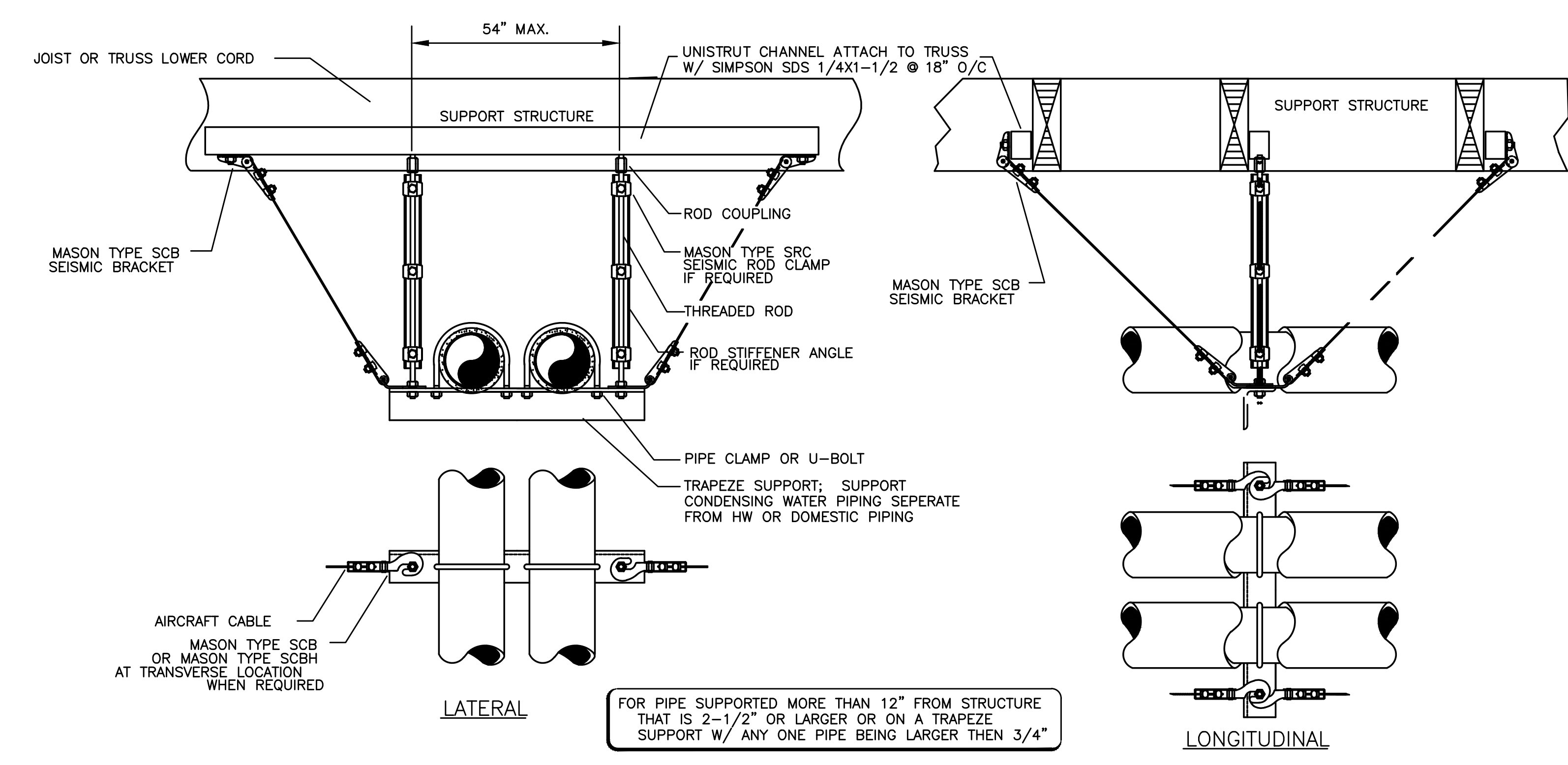
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1 PIPE/CONDUIT PENETRATION DRYWALL CONSTRUCTION TO BE APPLIED TO WALLS WITH STC ≥ 49
SEE ARCHITECTURAL DRAWINGS FOR ACOUSTICALLY IMPORTANT WALLS (WALL TYPES). SEAL PENETRATIONS IN THOSE WALLS PER THESE DETAILS



2 PIPE PENETRATION — RATED WALL
SCALE: DETAIL

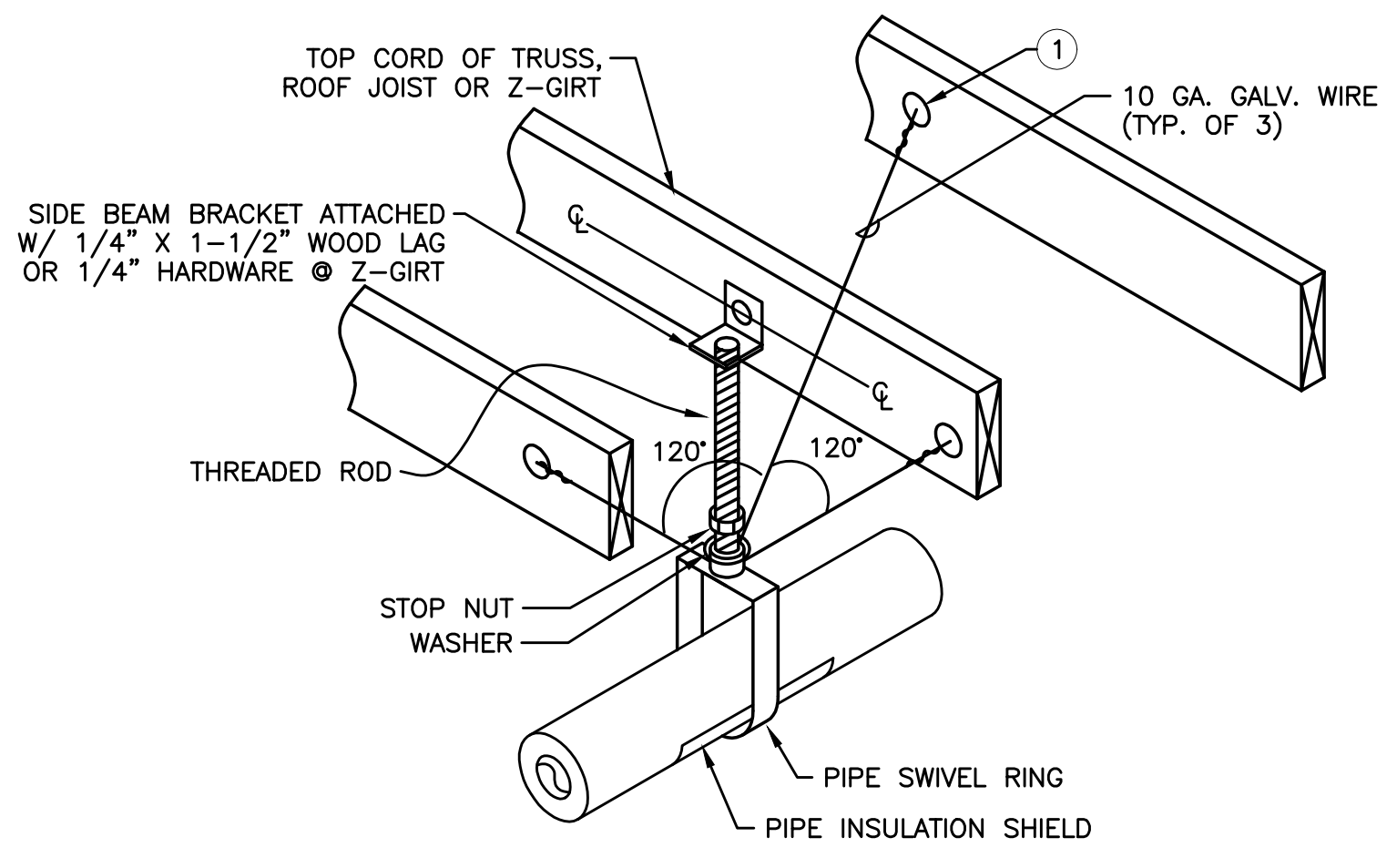
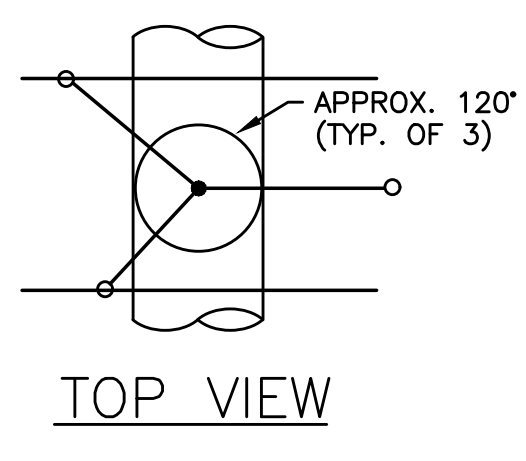


3 SEISMIC PIPE SUPPORT
SCALE: DETAIL

2/P6.02 NOTES

- 1-1/4" GALV. THREADED EYE BOLT @ CENTER OF WOOD MEMBER (TYP. OF 3). FOR Z-GIRT USE MACHINE THREAD EYE BOLT W/ JAMB NUT & 1/4" WASHER @ EACH SIDE OF GIRT

* — MAXIMUM HANGER SPACING SHALL BE AS FOLLOWS:
1-1/4" AND SMALLER PIPE 7' SPAN
1-1/2" PIPE 9' SPAN



4 NON-SEISMIC PIPE SUPPORT
SCALE: DETAIL

Revision Schedule		
#	Date	Description
1	2/19/18	DISTRICT REVIEW COMMENTS

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PLUMBING DETAILS

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P6.02

EXPIRES: 31DEC18