

PLUMBING SYMBOL LIST

* This is a standard list and not all symbols and abbreviations may be used.

<p>VALVES</p> <p>— — VALVE, GENERAL</p> <p>— — VALVE</p> <p>— — GATE VALVE</p> <p>— — PRESSURE REDUCING VALVE</p> <p>— — MOTORIZED, 2-WAY VALVE</p> <p>— — CHECK VALVE</p> <p>— — QUARTER TURN VALVE</p> <p>— — GLOBE VALVE</p> <p>— — BALANCING VALVE</p> <p>— — MOTORIZED, 3-WAY VALVE</p> <p>FITTINGS</p> <p>—○— PIPE RISE</p> <p>—○— PIPE DROP</p> <p>—○— TEE UP ON PIPE</p> <p>—○— TEE DOWN ON PIPE</p> <p>— — CONTINUATION</p> <p>— — CAP</p> <p>— — UNION</p> <p>— — PIPE BELOW GRADE</p> <p>— — PIPE REMOVED IN DEMOLITION</p> <p>— — CONCENTRIC REDUCER</p> <p>— — ECCENTRIC REDUCER</p> <p>— — FLOW DIRECTION</p> <p>— — HOSE BIBB</p> <p>— — PUMP</p> <p>— — WALL CLEANOUT</p> <p>— — FLOOR CLEANOUT</p> <p>— — CATCH BASIN</p> <p>— — FLOOR DRAIN</p> <p>— — FLOOR SINK</p> <p>— — FT FEET</p> <p>— — GCO GRADE CLEANOUT</p>	<p>⊙ RD ROOF DRAIN</p> <p>⊙ VTR VENT THROUGH ROOF</p> <p>PIPING SYSTEMS</p> <p>— COLD WATER PIPING</p> <p>— HOT WATER PIPING</p> <p>— HOT WATER RETURN PIPING</p> <p>— G GAS PIPING</p> <p>— D CONDENSATE PIPING</p> <p>— AR ACID RESISTANT PIPING</p> <p>— F FIRE PROTECTION PIPING</p> <p>— A COMPRESSED AIR PIPING</p> <p>— WASTE PIPING BELOW GRADE OR FINISHED FLOOR</p> <p>— WASTE PIPING ABOVE GRADE OR FINISHED FLOOR</p> <p>— SD STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR</p> <p>— SD STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR</p> <p>— WASTE VENT PIPING</p> <p>ABBREVIATIONS</p> <p>AD AREA DRAIN</p> <p>AFG ABOVE FINISHED GRADE</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>BFP BACKFLOW PREVENTER</p> <p>BFF BELOW FINISHED FLOOR</p> <p>CD CONDENSATE DRAIN</p> <p>CF CUBIC FOOT</p> <p>CFH CUBIC FEET PER HOUR</p> <p>CL CENTERLINE</p> <p>CLG CEILING</p> <p>CONT. CONTINUATION</p> <p>CV CHECK VALVE</p> <p>CW COLD WATER</p> <p>DIA DIAMETER</p> <p>DN DOWN</p> <p>(E) EXISTING</p> <p>EL ELEVATION</p> <p>ELECT ELECTRICAL</p> <p>FC FLEXIBLE CONNECTOR</p> <p>FPS FEET PER SECOND</p> <p>FS FLOW SWITCH</p>	<p>GAL GALLONS</p> <p>GPH GALLONS PER HOUR</p> <p>GPM GALLONS PER MINUTE</p> <p>HB HOSE BIBB</p> <p>HD HEAD</p> <p>HUD HUB DRAIN</p> <p>HP HORSE POWER</p> <p>HTR HEATER</p> <p>HW HOT WATER</p> <p>HWR HOT WATER RETURN</p> <p>ID INSIDE DIAMETER</p> <p>IE INVERT ELEVATION</p> <p>IN INCHES</p> <p>L LAVATORY</p> <p>LBS. POUNDS</p> <p>MBH THOUSAND BTU'S PER HOUR</p> <p>MIN MINIMUM</p> <p>(N) NEW</p> <p>N/A NOT APPLICABLE</p> <p>NIC NOT IN CONTRACT</p> <p>NO. NUMBER</p> <p>NOP NORMALLY OPEN</p> <p>NTS NOT TO SCALE</p> <p>OD OUTSIDE DIAMETER</p> <p>P PUMP</p> <p>PDI PLUMBING & DRAINAGE INSTITUTE</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>RD ROOF DRAIN</p> <p>REC ROOF CEPTOR</p> <p>RET RETURN</p> <p>RL RAIN WATER LEADER</p> <p>SF SQUARE FEET</p> <p>SOV SHUT OFF VALVE</p> <p>TEMP TEMPERATURE</p> <p>TP TRAP PRIMER PIPING</p> <p>TPV TRAP PRIMER VALVE</p> <p>U URINAL</p> <p>UH UNIT HEATER</p> <p>V VENT</p> <p>VAC VACUUM</p> <p>VTR VENT THRU ROOF</p> <p>W WASTE</p> <p>W/ WITH</p> <p>WC WATER CLOSET</p> <p>WHA WATER HAMMER ARRESTOR</p>
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GENERAL PLUMBING NOTES

- A. REPORT TO ARCHITECT, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER PROVISION OF THIS WORK.
- B. THE SUBMISSION OF BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF WORK. THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE, CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL IN THE BID PROPOSAL INCLUDE ALL LABOR AND MATERIAL REQUIRED TO COMPLETE THE SYSTEM.
- C. CONTRACTOR SHALL COMPLETE THE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE.
- D. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.
- E. PROTECT EXISTING BUILDING STRUCTURES, AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFRESH EXISTING WORK DAMAGED BY WORK UNDER THIS DIVISION TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING AND REFRESHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.
- F. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- G. ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS, OR LACK OF COORDINATION WITH OTHER TRADES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER AND IS SUBJECT TO REVIEW BY THE ARCHITECT.
- H. ALL FLOOR DRAIN TRAPS WILL BE PRIMED TO PROVIDE WATER SEAL FOR PREVENTION OF DRYING AND PREVENTION OF FUMES EXITING UP THROUGH DRAINS.
- I. INSULATE HOT WATER PIPING SUPPLY AND RETURN, INSULATE COLD WATER PIPING LOCATED EXPOSED IN TEMPERED ROOMS, IN CRAWL SPACE OR ATTIC AREA, AND EXPOSED OUTSIDE UNDER OVERHANGS. PIPING EXPOSED TO RAIN SHALL BE INSULATED WITH CLOSED CELL INSULATION. ALUMINUM JACKET INSULATION SHALL BE PAINTED TO MATCH THE SURROUNDING, AS APPROVED PER ARCHITECT IN SUBMITTAL.
- J. FOR PIPES PENETRATING WALL, PROVIDE ESCUTCHEON ALL EXPOSED LOCATIONS.
- K. COORDINATE WITH FLOOR, CEILING AND WALL CONSTRUCTION TRADE TO PROVIDE ACCESS PANEL FOR ALL VALVES AND OTHER EQUIPMENT REQUIRING ACCESS.

GENERAL DEMOLITION NOTES

- A. COORDINATE DEMOLITION, CUTTING PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.
- B. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.
- C. CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOOR TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE WORK FOR EACH TRADE.
- D. VERIFY AND COORDINATE EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE. EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED.

RE WITH ARCHITECT.

GENERAL SEISMIC NOTES

- A. PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO SYSTEM THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. WHERE THEY DO NOT COMPLY WITH THE REQUIREMENT ON DETAIL T/SS.2.
- B. ALL MECHANICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2007 CBC, SECTION 1614A.1.13 AND ASCE 7-05 SECTIONS 13.3, 13.4 & 13.6. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS:
 1. EQUIPMENT WEIGHTING LESS THAN 400 POUNDS SUPPORT DIRECTLY ON THE FLOOR OR ROOF.
 2. FURNITURE REQUIRED TO BE ATTACH IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R.
 3. TEMPORARY OR REMOVABLE EQUIPMENT.
 4. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUPPORT BY VIBRATION ISOLATORS.
 5. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. WHERE THEY DO NOT COMPLY WITH THE REQUIREMENT ON DETAIL T/SS.2.
- C. FIRE PROTECTION PIPING
 1. THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH THE LATEST EDITION OF NFPA 13.
 2. PROVIDE ANCHORAGE DETAILS AND CALCULATIONS OF THE CONNECTION OF SWAY BRACING TO THE STRUCTURE.
 3. DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER TABLE 4-8.4.3.5.2 OF NFPA 13, 1994 EDITION.
 4. WHERE APPLICABLE DETAILS FOR THE SUPPORT AND BRACING MAY BE PER ITEM B ABOVE.
 5. ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHAL AND MECHANICAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- D. CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED FOR PIPING SUPPORTS AND BRACING SHOWING:
 1. LOCATION OF SEISMIC BRACING.
 2. REACTION FORCES TO THE SUPPORTING STRUCTURE.
 3. MANUFACTURER'S DESIGNATION OF SUPPORT DEVICES.
- E. SEISMIC BRACING POINTS SHALL BE SUBMITTED ON CONTRACTOR'S COORDINATED SHOP DRAWINGS.
- F. A COPY OF THE BRACING SYSTEMS INSTALLATION MANUAL SHALL BE ON THE JOB SITE PRIOR TO STARTING THE INSTALLATION OF THE HANGERS AND/OR BRACES. SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.

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BC|A

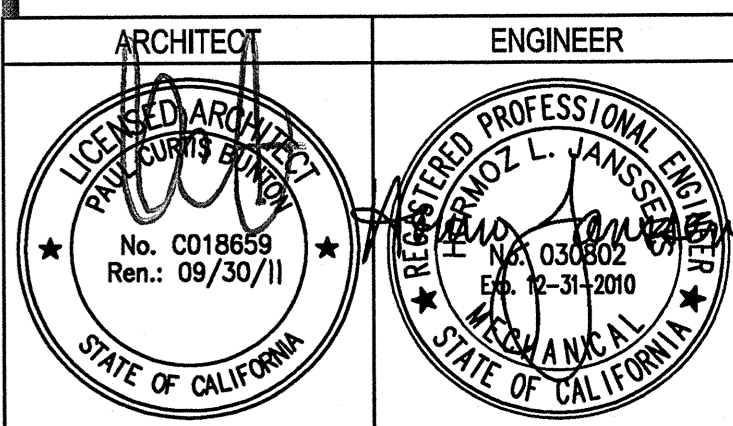
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PROJECT 2007-0731
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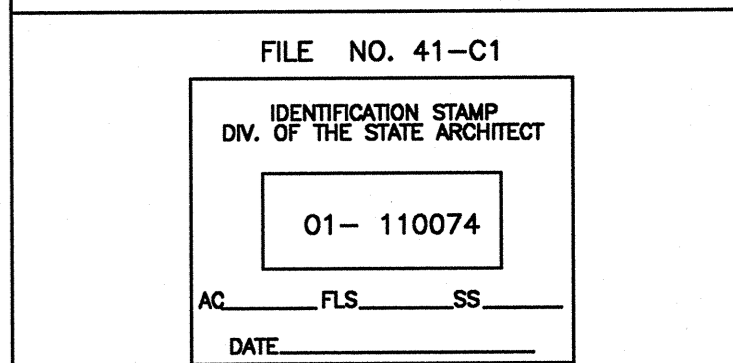
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REMARKS	DATE
ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/09
● DSA BACK CHECK	01/22/09
● BIDDING (RFD #86583)	09/18/09
○ CONSTRUCTION	



BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

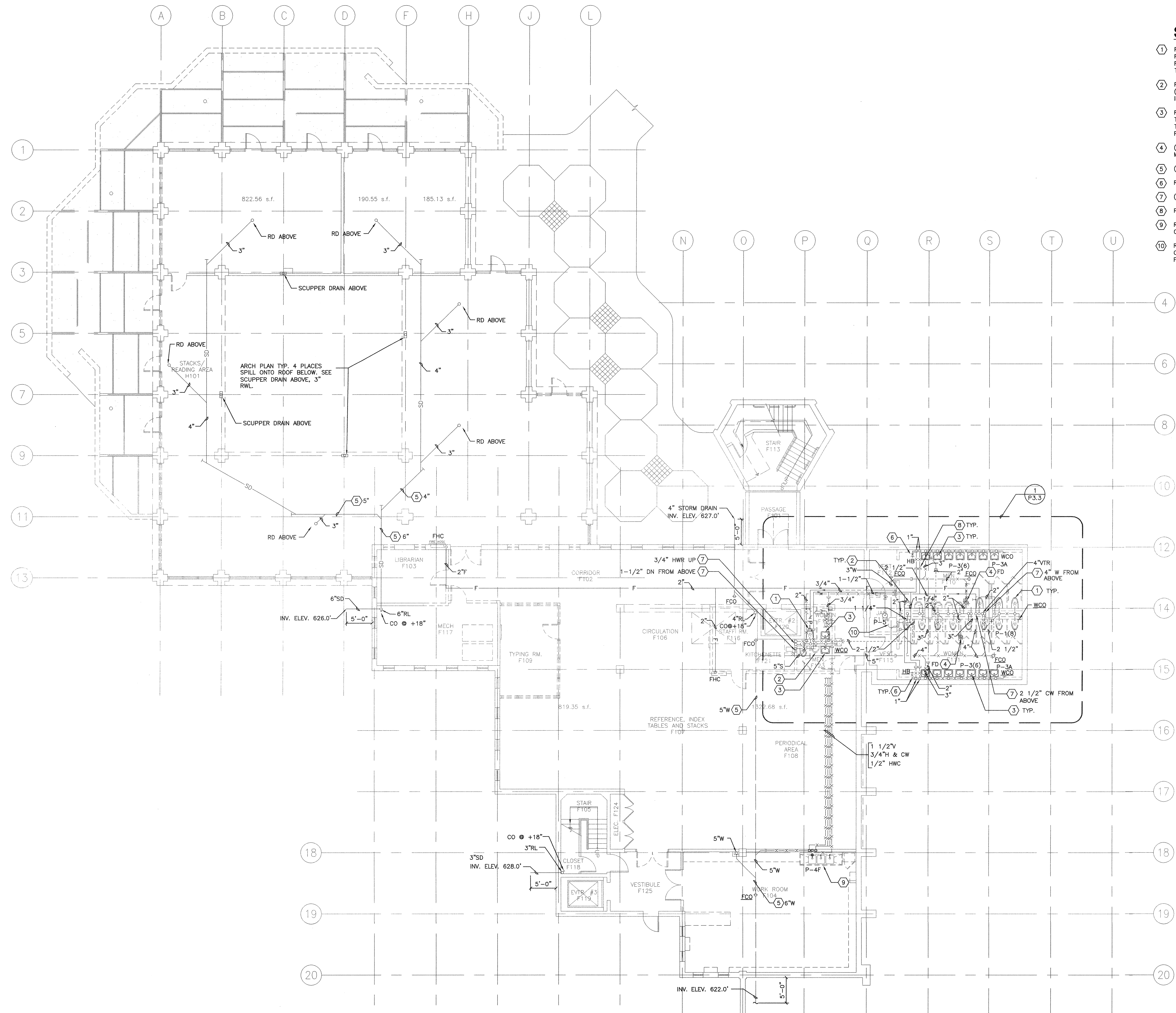
BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

PLUMBING LEGENDS,
NOTES, ABBREVIATIONS
AND DRAWING INDEX

Date 08/29/08
Scale AS NOTED
Project Number 07013

P0.1



SHEET KEYNOTES

- ① REMOVE (E) WALL MOUNTED WATER CLOSET INCLUDING CARRIER, FLUSHMETER VALVE, TOILET SEAT AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- ② REMOVE (E) URINAL INCLUDING STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- ③ REMOVE (E) WALL MOUNTED LAVATORY INCLUDING DRAIN, P-TRAP, SUPPLY TUBING, STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL. PATCH HOLE TO MATCH (E) WALL.
- ④ (E) FD AND RELATED PIPING TO BE REMOVED, PATCH FLOOR SLAB TO MATCH (E) FLOOR SLAB.
- ⑤ (E) PIPING TO REMAIN.
- ⑥ REMOVE (E) HOSE BIBB AND RELATED PIPING.
- ⑦ (E) PIPE RISER TO REMAIN.
- ⑧ PROVIDE CAP ON (E) PIPING.
- ⑨ REMOVE (E) SINK AND ASSOCIATED APPURTENANCES, CAP PIPING AND CONCEALED TO WALL, PATCH HOLE TO MATCH (E) FINISHED FLOOR/WALL.
- ⑩ REMOVE (E) JANITOR SINK INCLUDING STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.



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ENGINEER: [Stamp]

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REVISIONS	DATE

DRAWING STATUS	DATE

FILE NO. 41-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
01-110074
DATE: MAR 19 2009

**BUILDINGS 5 & 6
RENOVATIONS**
San Mateo County Community
College District

DSA BACK-CHECK

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

FIRST FLOOR
DEMOLITION PLAN
PLUMBING

1 FIRST FLOOR DEMOLITION PLAN - PLUMBING
SCALE: 1/8"=1'-0"

Date: 01/22/09
Scale: AS NOTED
Project Number: 07013
Drawing Number: PD1.1

PROJECT 2007-0731
CONTACT Omar Hawit

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ARCHITECT	ENGINEER

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REMARKS	DATE

DATE	DESCRIPTION

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DIV. OF THE STATE ARCHITECT

01-110074

DATE: MAR 19 2009

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

DSA BACK-CHECK

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4200 Farm Hill Boulevard
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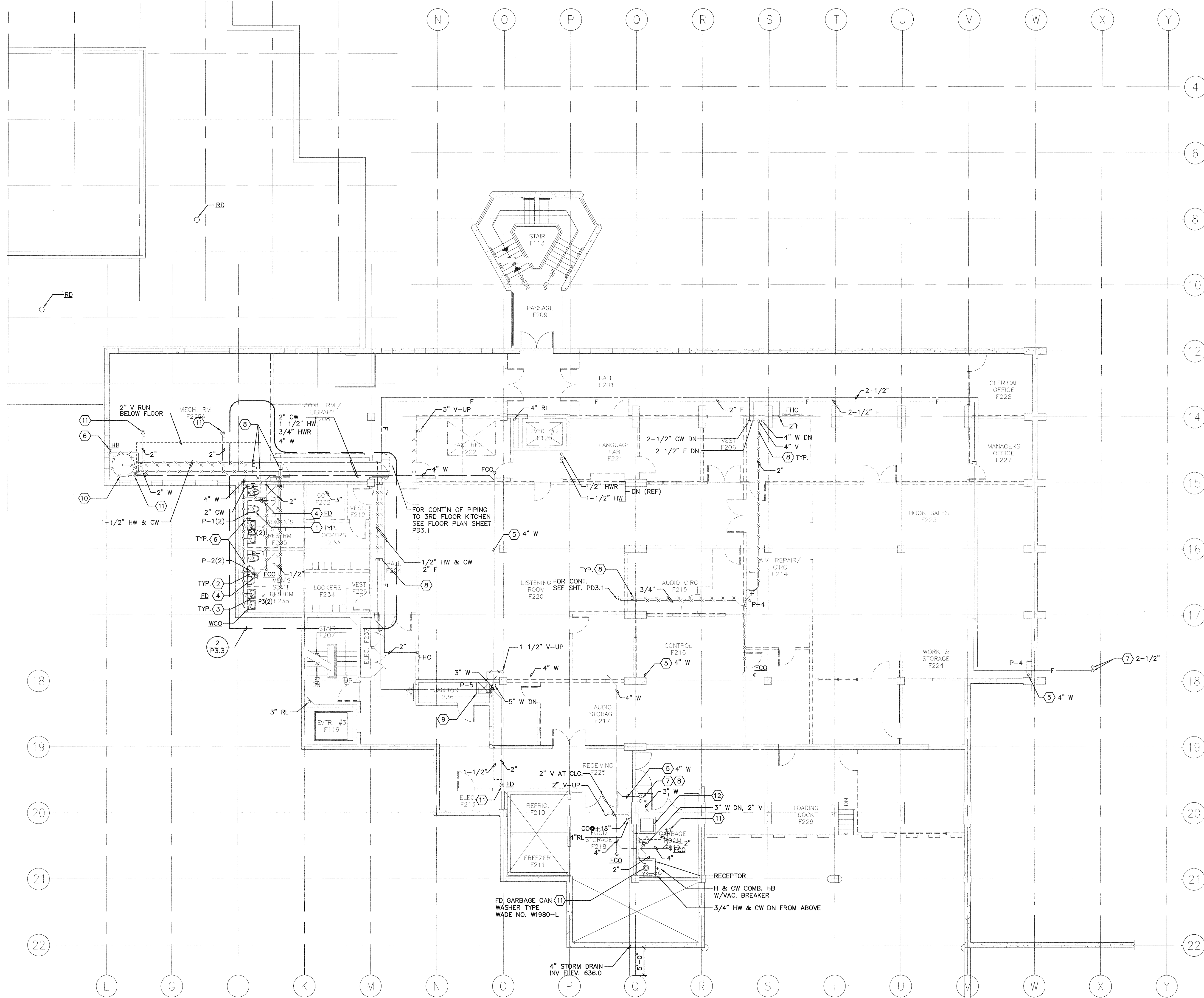
SECOND FLOOR
DEMOLITION PLAN
PLUMBING

Date 01/22/09
Scale AS NOTED
Project Number 07013

Drawing Number
PD1.2

SHEET KEYNOTES

- REMOVE (E) WALL MOUNTED WATER CLOSET INCLUDING CARRIER, FLUSHMETER VALVE, TOILET SEAT AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- REMOVE (E) URINAL INCLUDING STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- REMOVE (E) WALL MOUNTED LAVATORY INCLUDING DRAIN, P-TRAP, SUPPLY TUBING, STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL. PATCH HOLE TO MATCH (E) WALL.
- (E) FD AND RELATED PIPING TO BE REMOVED, PATCH FLOOR SLAB TO MATCH (E) FLOOR SLAB.
- (E) PIPING TO REMAIN.
- REMOVE (E) HOSE BIBB AND RELATED PIPING.
- (E) PIPE RISER TO REMAIN.
- PROVIDE CAP ON (E) PIPING.
- (E) JANITOR SINK TO REMAIN.
- REMOVE (E) HOT WATER GENERATOR, HOT WATER CIRCULATING PUMP AND ASSOCIATED APPURTENANCES.
- (E) FD TO REMAIN.
- REMOVE & DISPOSE (E) GREASE INTERCEPTOR AND RELATED MATERIALS. PATCH FLOOR SLAB TO MATCH (E) FLOOR SLAB.



1 SECOND FLOOR DEMOLITION PLAN - PLUMBING

0 4' 8' 16'

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

PROJECT: 2007-0731
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REGISTERED ARCHITECT
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Ren. 09/30/09

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REVISION HISTORY	DATE

DRAWING STATUS	DATE
<input type="checkbox"/> DISA PLAN CHECK	
<input type="checkbox"/> DISA BACK CHECK	
<input type="checkbox"/> BIDDING (BD #86593)	
<input type="checkbox"/> CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
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01-110074
DATE: MAR 19 2007

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

DSA BACK-CHECK

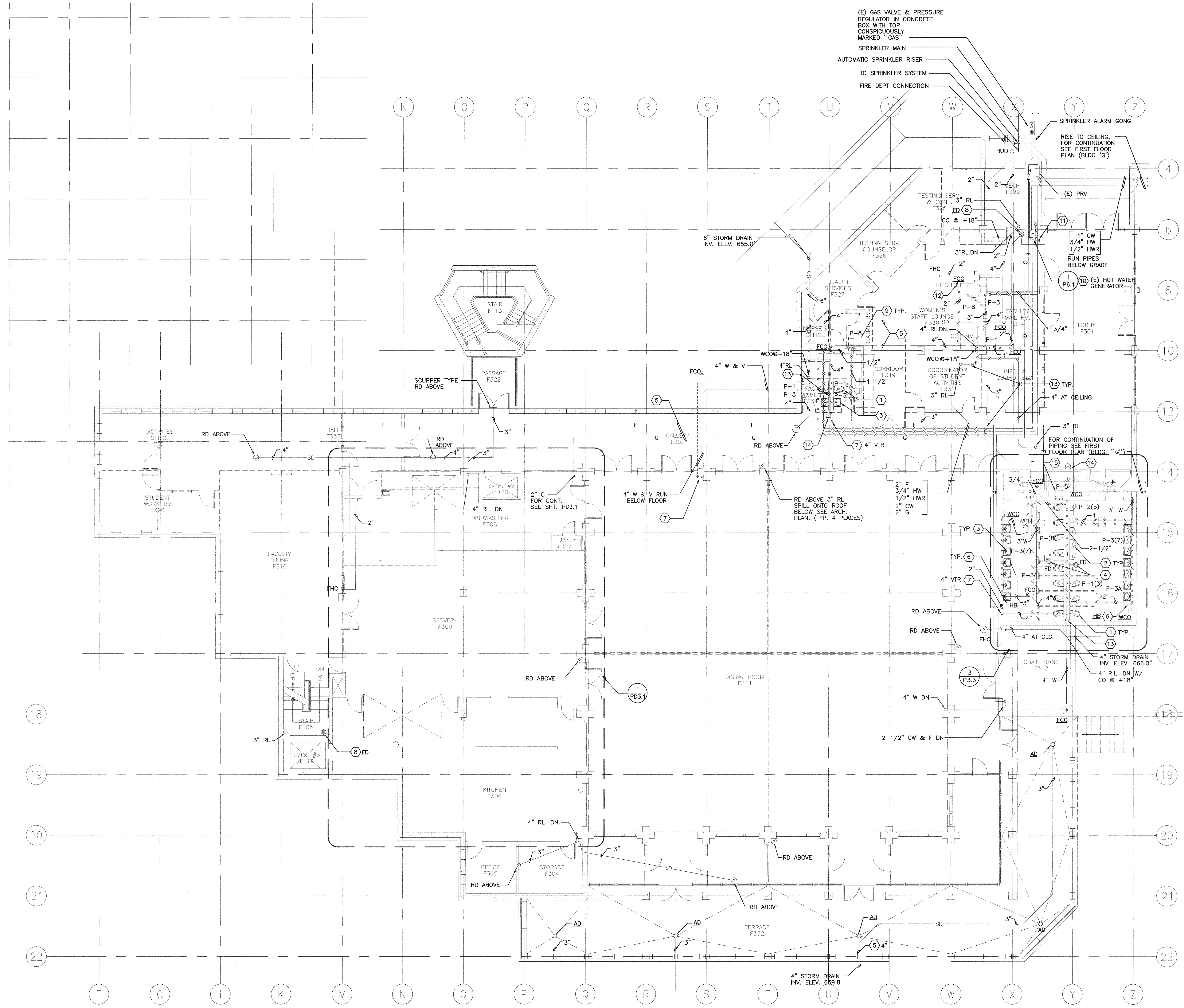
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THIRD FLOOR
DEMOLITION PLAN
PLUMBING

Date	01/22/09	Drawing Number	PD1.3
Scale	AS NOTED	Project Number	07013

SHEET KEYNOTES

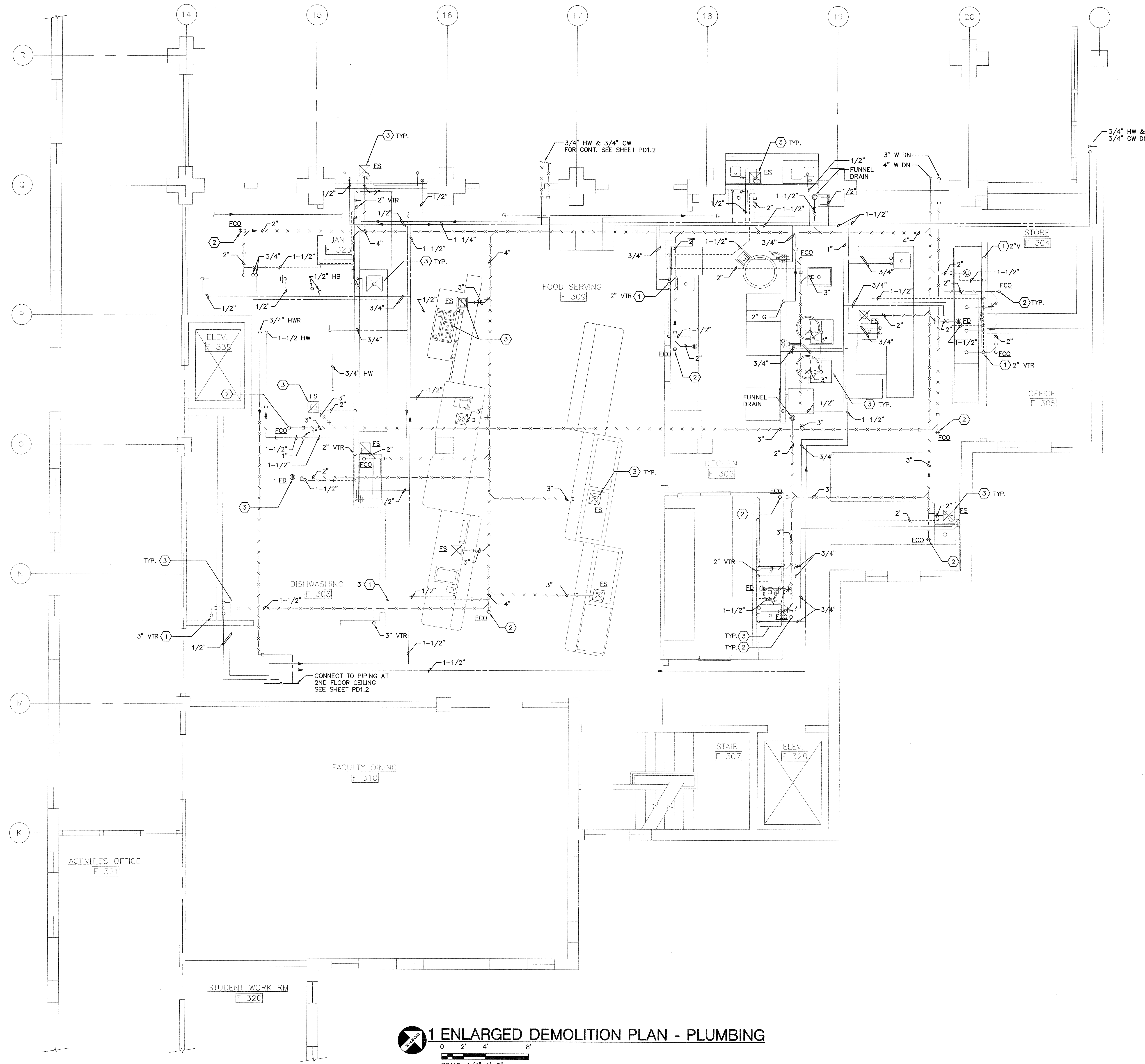
- 1 REMOVE (E) WALL MOUNTED WATER CLOSET INCLUDING CARRIER, FLUSHOMETER VALVE, TOILET SEAT AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- 2 REMOVE (E) URINAL INCLUDING STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL.
- 3 REMOVE (E) WALL MOUNTED LAVATORY INCLUDING DRAIN, P-TRAP, SUPPLY TUBING, STOP VALVES AND RELATED PIPING. CAP (E) WASTE PIPE BELOW THE FLOOR AND CAP VENT PIPE ABOVE THE FLOOR INSIDE THE WALL. PATCH HOLE TO MATCH (E) WALL.
- 4 (E) FD AND RELATED PIPING TO BE REMOVED, PATCH FLOOR SLAB TO MATCH (E) FLOOR SLAB.
- 5 (E) PIPING TO REMAIN.
- 6 REMOVE (E) HOSE BIBB AND RELATED PIPING.
- 7 (E) PIPE RISER TO REMAIN.
- 8 (E) FD TO REMAIN.
- 9 REMOVE (E) KITCHEN UNIT AND ASSOCIATED APPURTENANCES, CAP PIPING AND CONCEALED TO WALL. PATCH HOLE TO MATCH (E) FINISHED FLOOR/WALL.
- 10 REMOVE (E) HOT WATER GENERATOR, HOT WATER CIRCULATING PUMP AND ASSOCIATED APPURTENANCES.
- 11 (E) HOSE BIBB TO REMAIN.
- 12 REMOVE (E) FCO.
- 13 PROVIDE CAP ON (E) PIPING.
- 14 REMOVE (E) DF INCLUDING DRAIN, P-TRAP & PROVIDE CAPS ON (E) CW, W, & V PIPING FOR (N) DF.
- 15 (E) JANITOR SINK TO REMAIN.



1 THIRD FLOOR DEMOLITION PLAN - PLUMBING
SCALE: 1/8"=1'-0"

SHEET KEYNOTES

- (1) (E) PIPING/RISER TO REMAIN.
- (2) (E) FOO TO REMAIN.
- (3) (E) PLUMBING FIXTURE/EQUIPMENT TO REMAIN.



1 ENLARGED DEMOLITION PLAN - PLUMBING
SCALE: 1/4"=1'-0"

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REVISIONS	REMARKS	DATE

DRAWING STATUS:

DSA PLAN CHECK

DSA BACK CHECK

BIDDING (BID #66557)

CONSTRUCTION

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01-110074

AC: [Signature] PLS: [Signature] SS: [Signature]

DATE: MAR 19 2009

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

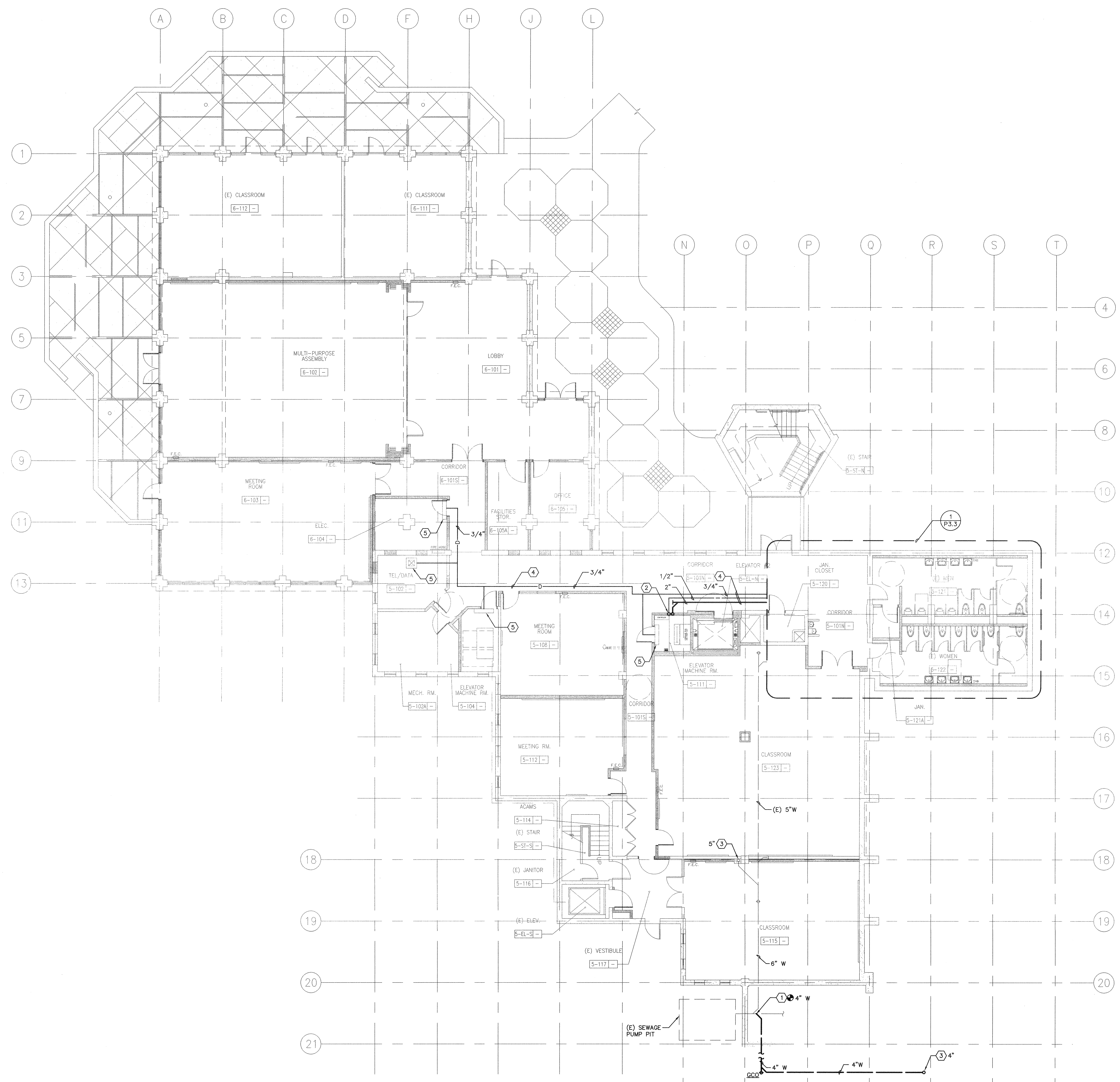
CAÑADA COLLEGE

4200 Farm Hill Boulevard
Redwood City, CA 94061

ENLARGED
DEMOLITION PLAN
PLUMBING

Date: 01/22/09
Scale: AS NOTED
Project Number: 07013

Drawing Number: **PD3.1**



- SHEET KEYNOTES**
- ① POINT OF CONNECTION, (N) WORK TO (E) WORK. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
 - ② 2" W DN FROM ABOVE & 1/2" CW UP.
 - ③ W DN FROM ABOVE.
 - ④ PIPING ABOVE FINISHED CEILING.
 - ⑤ PROVIDE 3/4" CD PIPING & REFER TO MECH. DWG. FOR EXACT LOCATIONS OF FG UNITS.

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

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PROJECT: 2007-0731
 CONTACT: Omar Hawit

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- DRAWING STATUS**
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 - CONSTRUCTION

FILE NO. 41-C1

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 DATE: MAR 19 2008

**BUILDINGS 5 & 6
 RENOVATIONS**
 San Mateo County Community
 College District

DSA BACK-CHECK

CAÑADA COLLEGE
 4200 Farm Hill Boulevard
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PLUMBING PLAN
 FIRST FLOOR

Date: 01/22/09
 Scale: AS NOTED
 Project Number: 07013

Drawing Number: **P2.1**

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STATE OF CALIFORNIA
REGISTERED ARCHITECT
No. C018839
Ren.: 09/30/11

STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
No. 45678
Ren.: 03/31/2010

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REMARKS	DATE
ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
● DSA PLAN CHECK	08/29/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #85593)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

GENERATION STAMP
DIV. OF THE STATE ARCHITECT

01-110074

AC FLS SS

DATE

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

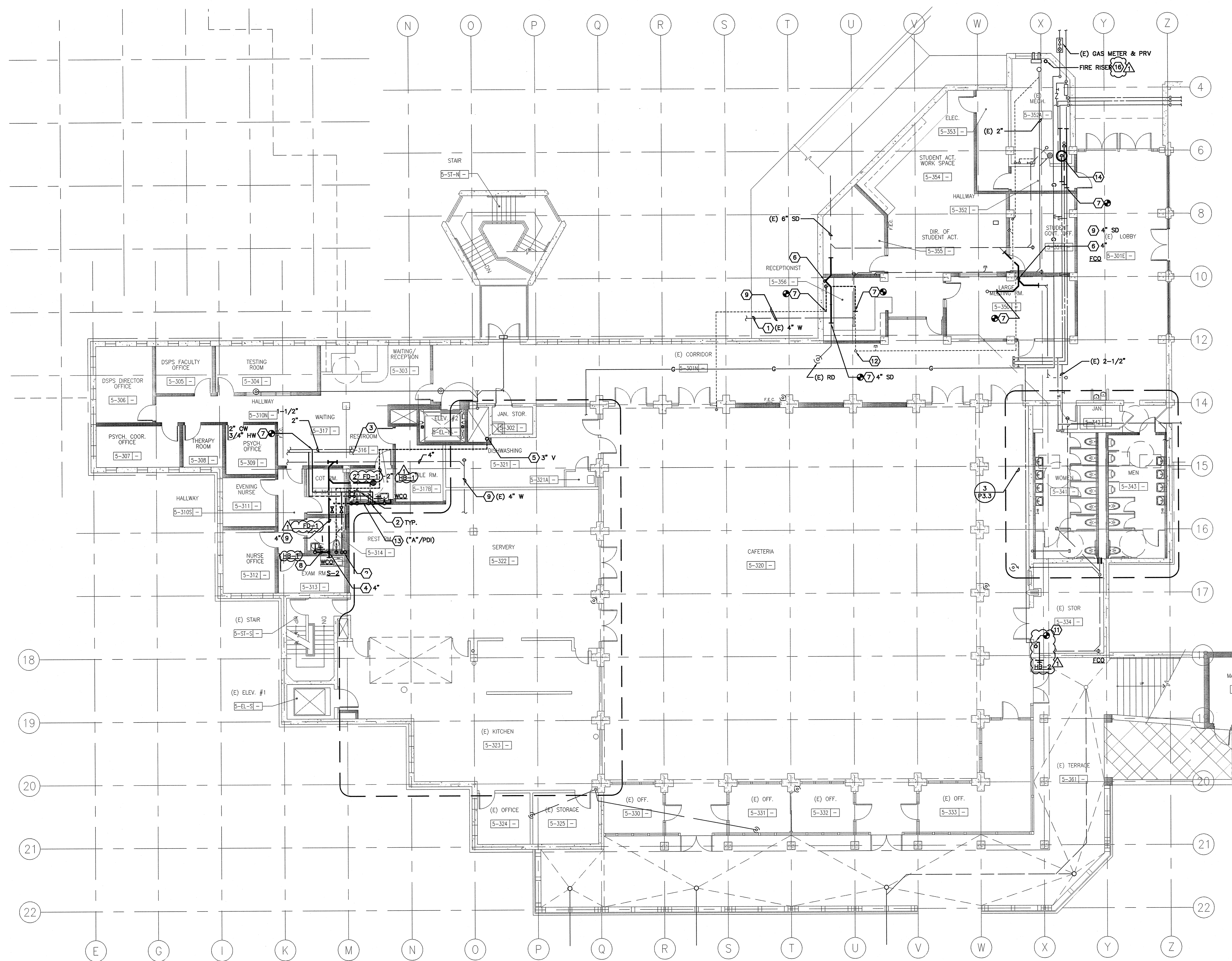
CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

PLUMBING PLAN
THIRD FLOOR

Date 08/29/08 Drawing Number
Scale AS NOTED **P2.3**
Project Number 07013

SHEET KEYNOTES

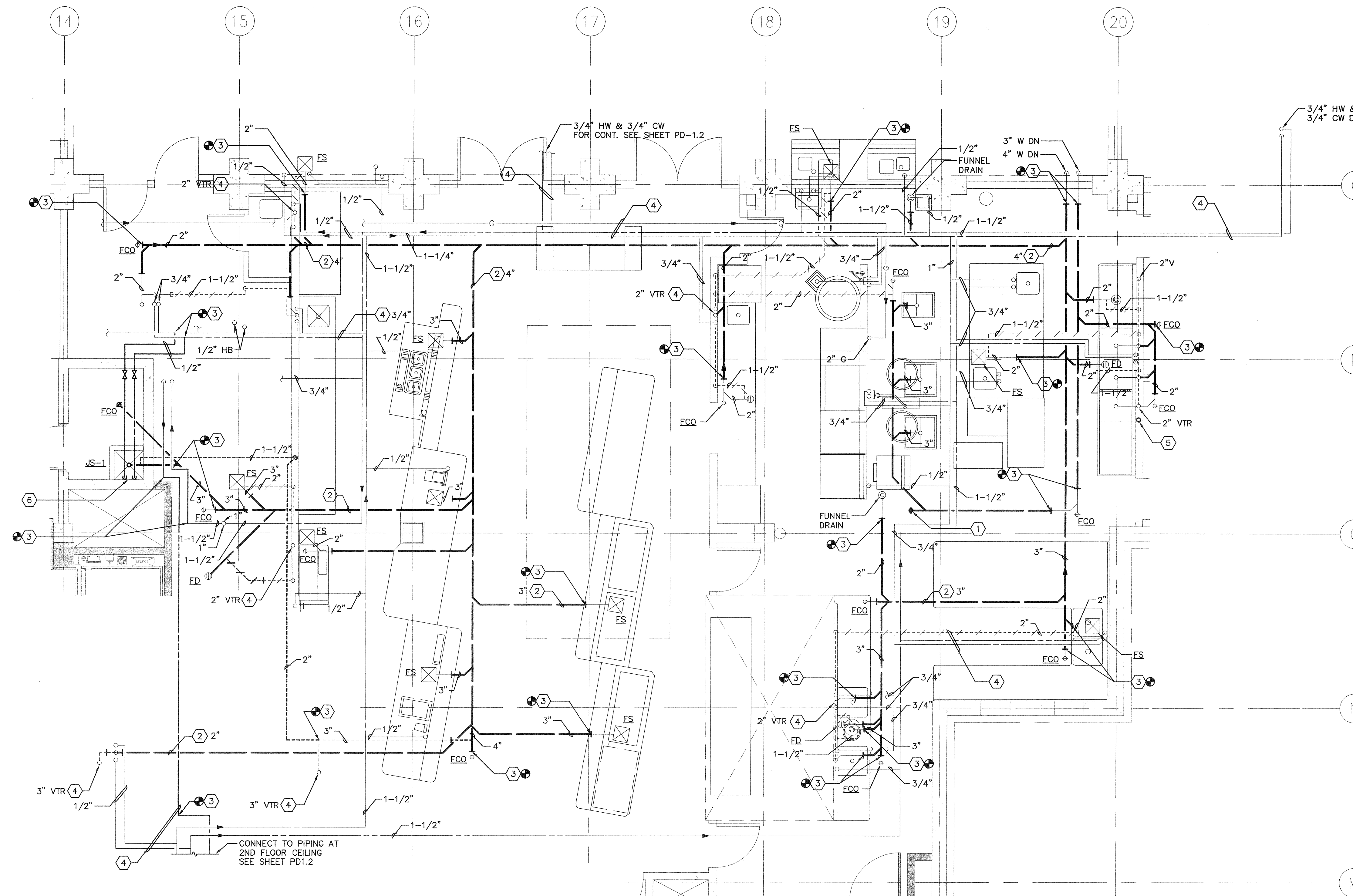
- FOR CONTINUATION, SEE DRAWING PD1.3.
- 1-1/2" CW & 3/4" HW DN.
- REFER TO PD3.1 FOR CONTINUATION.
- W DN TO BELOW FLOOR.
- 3" V UP.
- SD STACK DN W/ WCO.
- POINT OF CONNECTION, (N) WORK TO (E) WORK. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR TO INSTALLING (N) WORK.
- PIPE(S) ABOVE FINISHED FLOOR, INSIDE THE PLUMBING CHASE OR WALL.
- PIPING BELOW FLOOR.
- INSTALL PIPE WITH A MINIMUM SLOPE OF 1%.
- PIPING @ CEILING SPACE INSTALL AS HIGH AS POSSIBLE.
- (E) 4" V STACK.
- PROVIDE WHA (SIZES/PDI STANDARD) W/ AP.
- PROVIDE (N) WH-2.
- 1/2" HW DN & 2" V UP FROM BELOW.
- FIRE WATER RISER SIZE SHALL BE DETERMINED BY CONTRACTOR CALCULATIONS BASED ON RECENT FIRE FLOW DATA.



1 PLUMBING PLAN - THIRD FLOOR
0 4' 8' 16'
SCALE: 1/8"=1'-0"

SHEET KEYNOTES

- ① PROVIDE (N) FCO.
- ② PIPING BELOW FLOOR.
- ③ POINT OF CONNECTION, (N) WORK TO (E) WORK. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- ④ (E) PIPING TO REMAIN.
- ⑤ (N) 3" V UP THRU ROOF.
- ⑥ 1/2" CW & 1/2" HW DN.



1 ENLARGED PLAN - PLUMBING
SCALE: 1/4"=1'-0"

PROJECT 2007-0731
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REMARKS	DATE

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FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01 - 110074

DATE: MAR 19 2008

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

DSA BACK-CHECK

CAÑADA COLLEGE

4200 Farm Hill Boulevard
Redwood City, CA 94061

ENLARGED PLAN
PLUMBING

Date	01/22/09	Drawing Number	P3.2
Scale	AS NOTED		
Project Number	07013		

PROJECT 2007-0731
CONTACT Omar Hawit

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REVISION HISTORY	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING (BID #86593)	
<input type="radio"/> CONSTRUCTION	

FILE NO. 41-C1

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DATE: MAR 19 2009

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

DSA BACK-CHECK

CAÑADA COLLEGE
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Redwood City, CA 94061

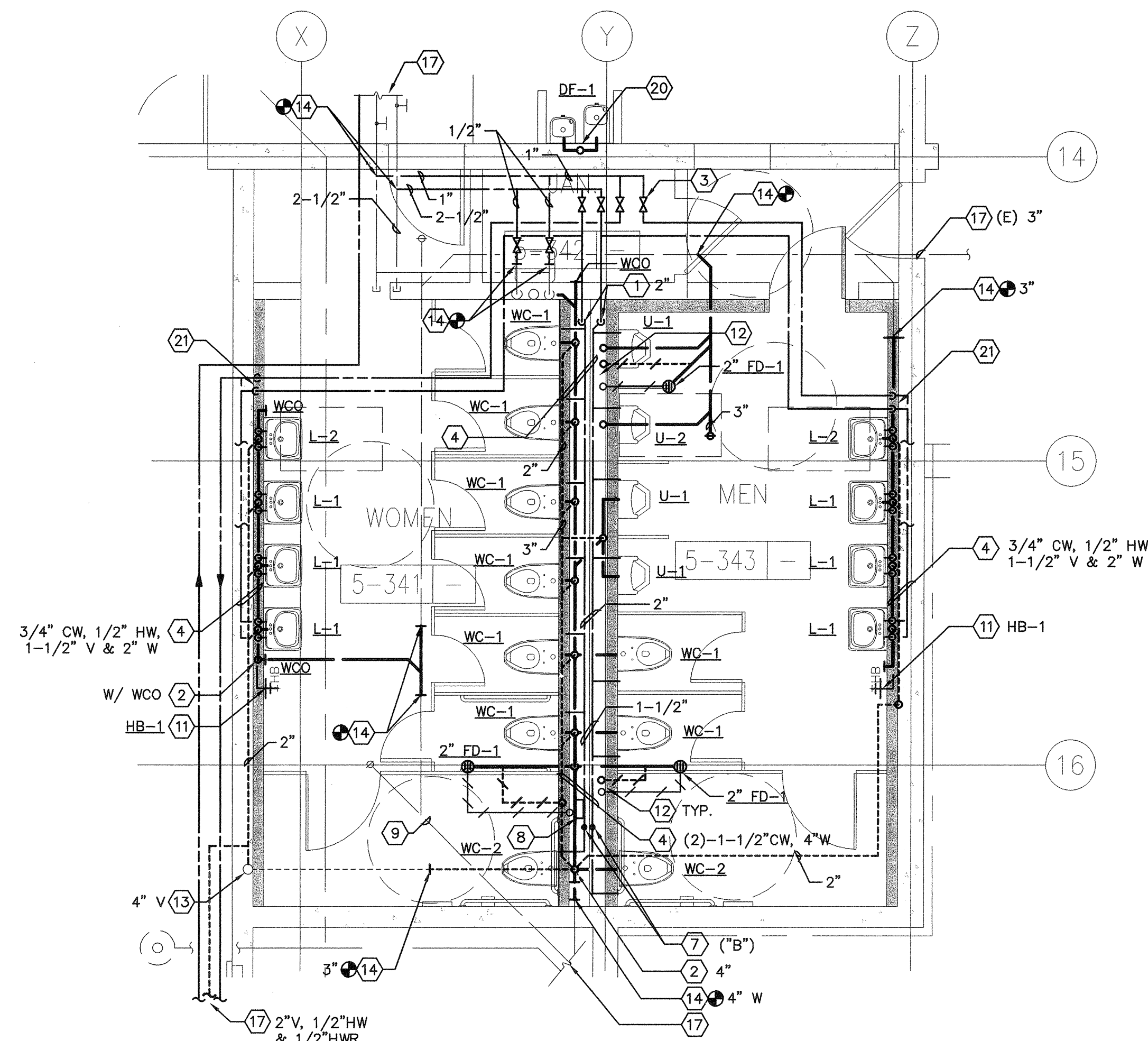
ENLARGED PLAN
PLUMBING

Date 01/22/09
Scale AS NOTED
Project Number 07013

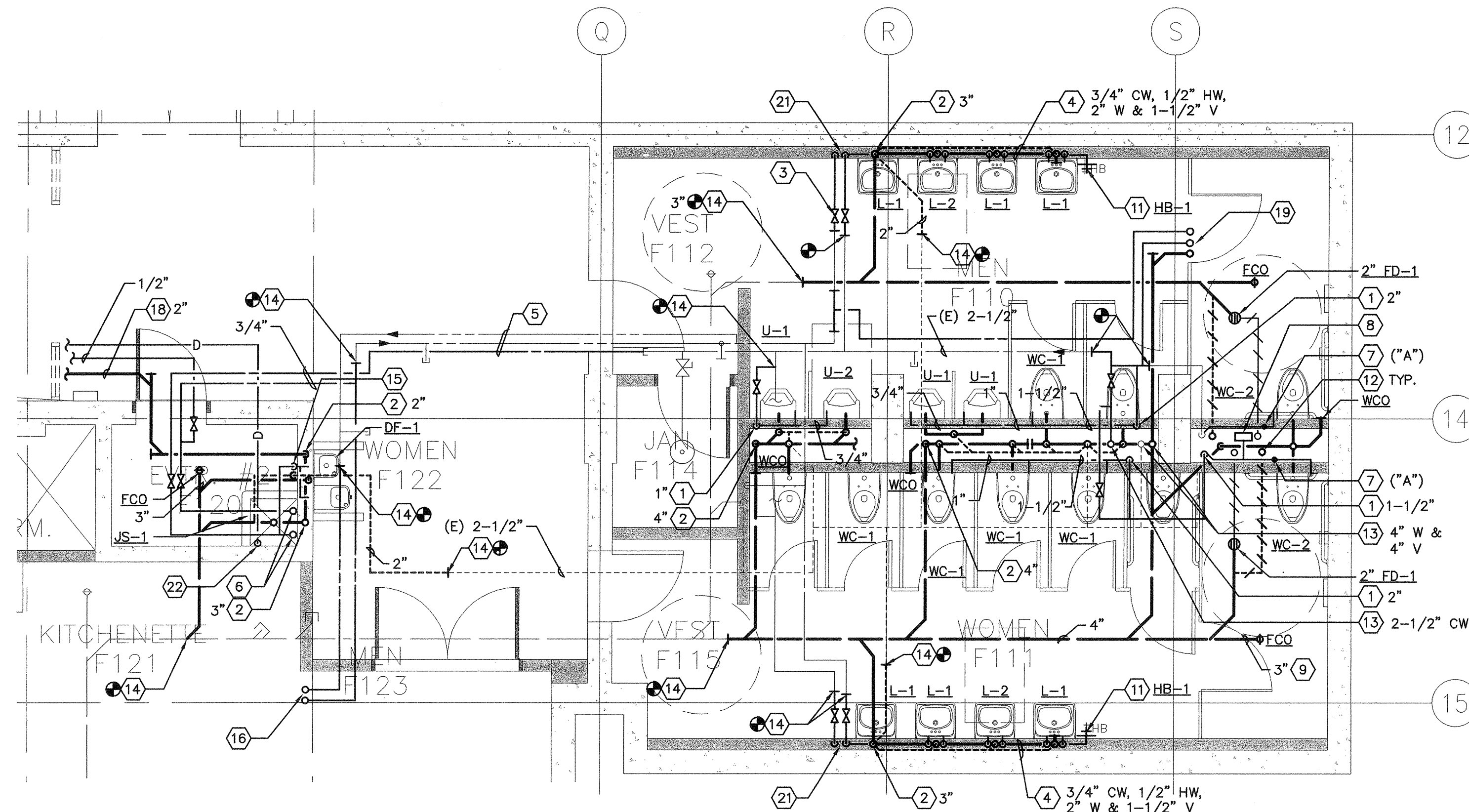
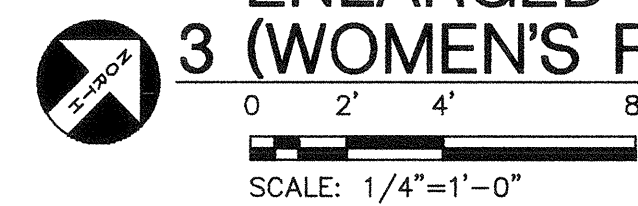
Drawing Number **P3.3**

SHEET KEYNOTES

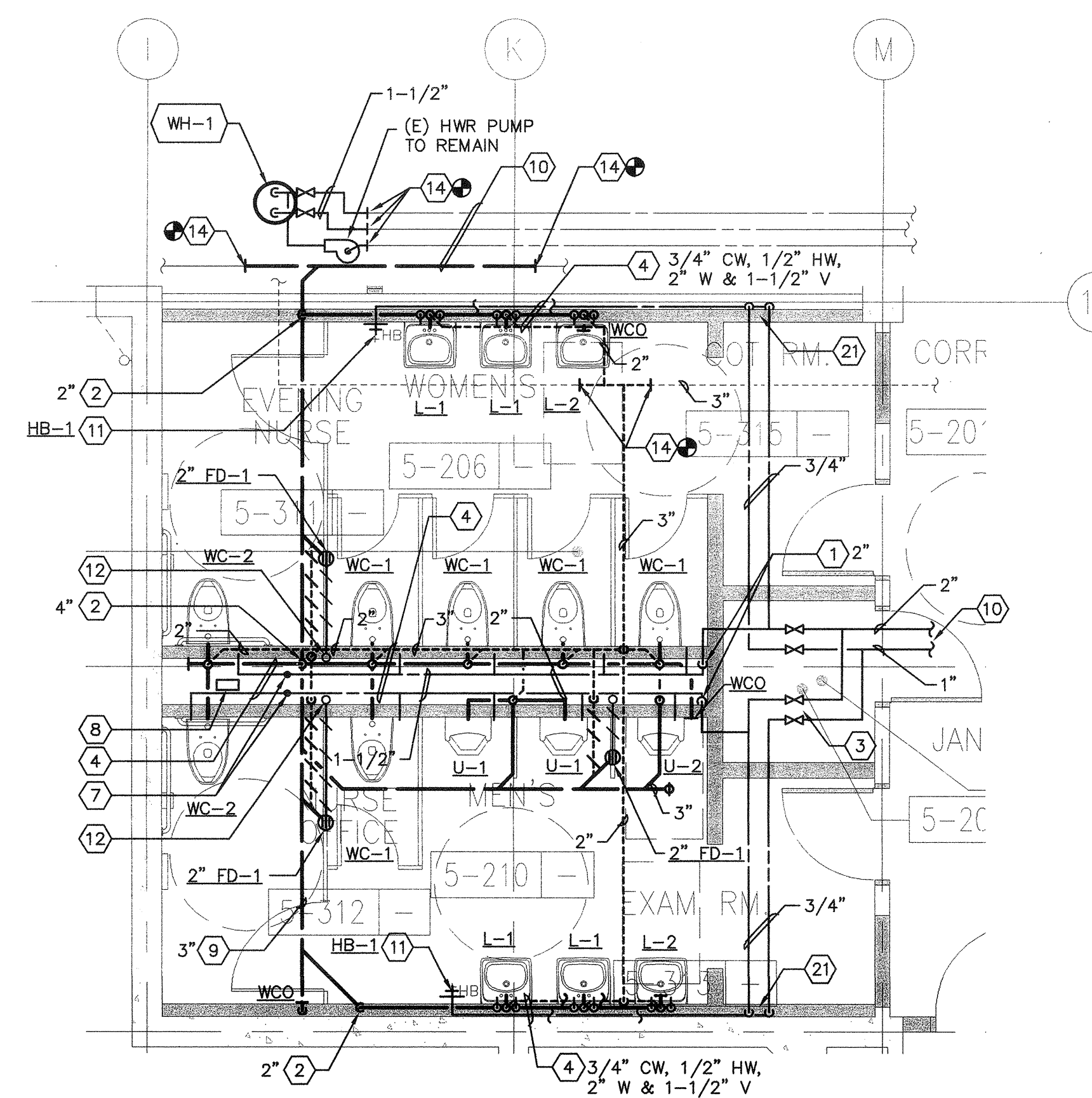
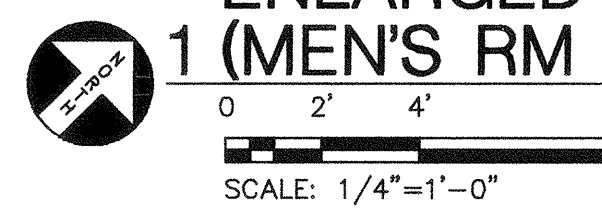
- CW DN.
- W DN.
- LINE SIZE SHUT-OFF VALVES.
- PIPING ABOVE FINISHED FLOOR INSIDE WALL/CHASE.
- PIPING ABOVE FINISHED CEILING.
- 3/4" CW & 3/4" HW UP & DN.
- PROVIDE WHA (SIZE/POI STANDARD) W/ AP.
- PROVIDE 1/2" CW, SOV TO TPV-1 @ +16" AFF FOR FD/FS.
- PIPING BELOW FLOOR.
- REFER TO P.2.2 FOR CONTINUATION.
- INSTALL 3/4" HB @ +18" AFF.
- 1-1/2" V UP & 1/2" TP DN.
- (E) PIPING/RISER TO REMAIN.
- POINT OF CONNECTION, (N) WORK TO (E) WORK. FIELD VERIFY EXACT SIZE AND LOCATION OF (E) WORK PRIOR INSTALLING (N) WORK.
- PROVIDE 1/2" CW W/ SOV TO DF.
- 1-1/2" HW & 3/4" HWR UP & CONNECT TO (E).
- REFER TO P.2.3 FOR CONT.
- INSTALL PIPE WITH A MINIMUM SLOPE OF 2%.
- 1/2" CW & 1/2" HW UP & 2" W DN FROM ABOVE.
- MODIFY FROM (E) PIPING & PROVIDE 1/2" CW W/ SOV, 2" W & 1-1/2" V TO DF.
- 3/4" CW & 3/4" HW DN.
- 3/4" CD PIPING DN & TERMINATE 2" ABOVE JS-1.



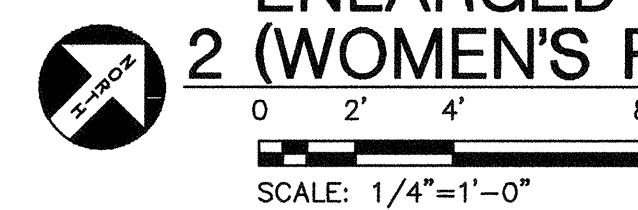
**ENLARGED PARTIAL PLAN
3 (WOMEN'S RM 5-341 & MEN'S RM 5-343)**



**ENLARGED PARTIAL PLAN
1 (MEN'S RM 5-21 & WOMEN'S RM 5-22)**



**ENLARGED PARTIAL PLAN
2 (WOMEN'S RM 5-206 & MEN'S RM 5-210)**



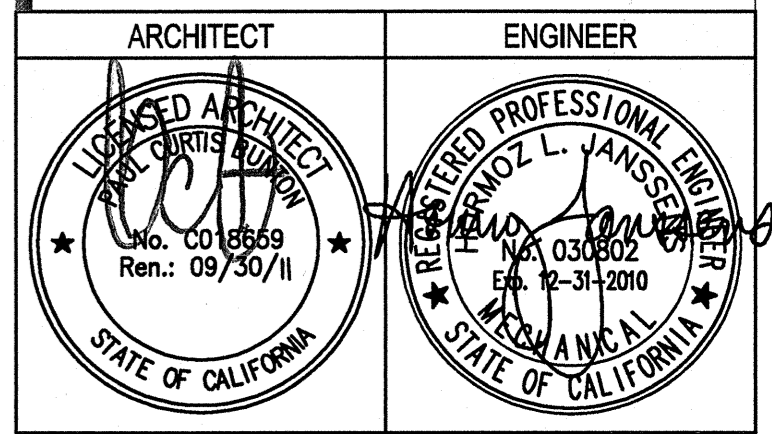
PLUMBING EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	ELECTRICAL
CP-1 W/ (HW-2)	CIRCULATING PUMP: MANUFACTURER BELL & GOSSETT, MODEL NBF-B S/P, 2.0 GPM, 7' OF HEAD	120 V 1 # 1 AMP 60 Hz
WH-1 W/ ET-1	ULTRA SUPERSTOR MODEL SSU-119C WITH INTERNAL DOUBLE WALL HEAT EXCHANGER, 119 GALLONS STORAGE, INPUT 180°F, OUTPUT = 490 GPH AT 140°F OF HOT WATER. 210 LBS.	----
WH-2 W/ ET-2	ULTRA SUPERSTOR MODEL SSU-80DW WITH INTERNAL DOUBLE WALL HEAT EXCHANGER 80 GALLONS STORAGE, INPUT 180°F, OUTPUT = 138 GPH AT 140°F OF HOT WATER. 141 LBS.	----
WHA-1	WATER HAMMER ARRESTER ZURN SHOKTROLS Z1700 SERIES	----
GI-1	GREASE INTERCEPTOR, 1000 GAL. CONCRETE TANK UTILITY VAULT MODEL 4484-GA.	----
BV-1	BALANCING VALVE - NIBCO MODEL - 1/2" FIG. T 1710.	----
ET-1 & ET-2	"AMTROL" - THERM-X-TROL # ST-25V	----
BFP-1	BACKFLOW PREVENTER - "WILKINS" MODEL 950 XLTS 1"	----

PLUMBING FIXTURE SCHEDULE					
SYMBOL	DESCRIPTION	CONNECTION			
		W	V	CW	HW
DF-1 ADA	DRINKING FOUNTAIN: WALL HUNG, STAINLESS STEEL, DUAL HEIGHT, ADA COMPLIANT, FLEXI-GUARD SAFETY BUBBLER, FRONT PUSH BUTTON, SELF-CLOSING VALVE, AUTOMATIC STREAM REGULATION VANDAL-RESISTANT BOTTOM PLATE. HAWS 1119, MOUNTING PLATE 6700.4 FITTINGS: 1-1/2 IN. TAIL PIECE, SCREWDRIVER STOP, TUBING SUPPLY. SUPPORT CARRIER: MODEL 6800.	1-1/2"	1-1/2"	1/2"	----
FD-1	FLOOR DRAIN: CAST IRON BODY WITH ADJUSTABLE ROUND POLISHED NICKEL BRONZE STRAINER. STANDARD SCREWS. TRAP PRIMER CONNECTION. J.R. SMITH 2005-A	2"	1-1/2"	----	----
FD-2	FLOOR DRAIN: CAST IRON BODY WITH ADJUSTABLE ROUND TOP ANTI-FLOOD RIM, NICKEL BRONZE STRAINER HEAD AND RECESSED STRAINER, LOOSE GRATE. STANDARD SCREWS. TRAP PRIMER CONNECTION. J.R. SMITH 2005-F37	2"	1-1/2"	----	----
HB-1	HOSE BIBB: WALL FAUCET, INSIDE USE, WITH E27JKCP INTEGRAL VACUUM BREAKER, POLISHED CHROME, TEE HANDLE, CHICAGO-293-CP	----	----	3/4"	----
JS-1	JANITOR SINK: FLOOR MOUNTED, 28 IN. X 28 IN., CORNER TYPE, ACID-RESISTANT, ENAMELED CAST IRON, [RIM GUARDS.] KOHLER K-6710 "WHITBY" FAUCET: HOSE-END SPOUT TYPE WITH INTEGRAL VACUUM BREAKER, ADJUSTABLE ARMS WITH INTEGRAL STOPS, AND WALL BRACE. CHROME. CHICAGO 897-CP	3"	1-1/2"	1/2"	1/2"
L-1	LAVATORY: WALL HUNG, VITREOUS CHINA, 20-3/4 IN. BY 18-3/4 IN., FRONT OVERFLOW, ANTI-BACKSPASH. KOHLER K-2032 "GREENWICH" WITH 4 IN. CENTER FAUCET HOLES. FITTINGS: 1-1/4 IN. BY 1-1/2 IN. P-TRAP. SUPPLIES AND STOPS. CARRIER: FLOOR MOUNTED WITH CONCEALED ARMS, J.R. SMITH AS APPLICABLE. FAUCET: METERING/SELF-CLOSING TYPE, 4 IN. CENTERS, ADJUSTABLE SLOW CLOSING, TEMPERATURE LIMIT STOP, IN-LINE CHECK/SCREEN ASSEMBLIES, 0.5 GPM AERATOR, GRID STRAINER, CHROME. SYMMONS S-60-1-H WITH POP-UP DRAIN INSTEAD OF GRID STRAINER	1-1/2"	1-1/2"	1/2"	1/2"
L-2 ADA	SAME AS L-1 EXCEPT FOR ADA COMPLIANT & PROVIDE INSULATION KIT TO P-TRAP AND SUPPLIES. SEE SPECIFICATIONS.	1-1/2"	1-1/2"	1/2"	1/2"
REC-1	ROOF CEPTOR, DURA-COATED CAST IRON BODY ZURN MODEL-Z-122	3"	----	----	----
S-1 ADA	SINK: JUST MODEL SL-ADA-2122-A-GR, 18 GAUGE TYPE 304 18-8 STAINLESS 21" FRONT TO BACK X 22" LEFT TO RIGHT X 6" DEPTH, WITH FAUCET AND BUBBLE LEDGE. FAUCET: CHICAGO 786-SWCP, DECK-MOUNTED, WITH GN28 RIGID/SWING GOOSENECK SPOUT, 317 WRIST BLADE	2"	1-1/2"	1/2"	1/2"
S-2 ADA	EXAM SINK: JUST MODEL SL-ADA-2217-A-GR, 18 GAUGE TYPE 304 18-8 STAINLESS STEEL, INSIDE DIMENSION: 16" FRONT-TO-BACK X 14" LEFT TO RIGHT X 6-1/2" DEEP WITH FAUCET AND BUBBLE LEDGE. FAUCET: CHICAGO 626; DECK MOUNTED SINGLE WATER INLET, WITH GN2A GOOSENECK SPOUT WITH LAMINAR FLOW OUTLET; CHICAGO-625-SLO COMBINATION PEDAL VALVE WITH 62BXSLO N/AAD ADJUSTABLE SELF-CLOSING CARTRIDGE. DRAIN: JUST J-35-SSF, STAINLESS STEEL FLAT GRID DRAIN.				
TPV-1	TRAP PRIMER MIFAB TRAP SEAL PRIMER MODEL MR-500 SERIES	----	----	----	----
U-1	URINAL: SIPHON JET, VITREOUS CHINA, WALL MOUNTED, HIGH EFF. URINAL SYSTEM 3/4 IN. TOP SPUD. ZURN Z579B FLUSH VALVE: 0.125 GAL. PER FLUSH, TOP SPUD. (INFRARED SENSOR/BATTERY) CARRIER: FLOOR MOUNTED. J.R. SMITH 0600 SERIES URINAL SUPPORT WITH SUPPORTING STUDS AND BOTTOM BEARING PLATE.	2"	1-1/2"	3/4"	----
U-2	SAME AS U-1 EXCEPT ADA COMPLIANT	2"	1-1/2"	3/4"	----
WC-1	WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT STANDARD. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER, CHURCH 9500C. FLUSH VALVE: 1.6 GAL. PER FLUSH DOWN/1.1 GAL. PER FLUSH UP, TOP SPUD. SLOAN WES-111 (MANUAL OPERATION) CARRIER: J.R. SMITH 0200 SERIES OR EQUAL.	4"	2"	1-1/2"	----
WC-2 ADA	WATER CLOSET: WALL HUNG, SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 IN. TOP SPUD FOR EXPOSED FLUSH VALVE, BOLT CAPS. MOUNTING HEIGHT ADA COMPLIANT. KOHLER K-4330 "KINGSTON" SEAT: OPEN FRONT, COMMERCIAL WEIGHT HEAVY-DUTY PLASTIC, STAINLESS STEEL CHECK HINGE, WHITE, WITHOUT COVER, CHURCH 9500C. FLUSH VALVE: 1.6 GAL. PER FLUSH DOWN/1.1 GAL. PER FLUSH UP, TOP SPUD. SLOAN WES-111 (MANUAL OPERATION) CARRIER: J.R. SMITH 0200 SERIES OR EQUAL.	4"	2"	1-1/2"	----
HB-2	WOODFORD TRIMLINE WALL HYDRANT MODEL B75, CONCEALED BOX TYPE, INTEGRAL ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD, 3/4" FEMALE INLET PIPE THREAD W/ 360 DEGREE INLET ORIENTATION. BRASS WALL BOX, BRASS COVER AND KEY. FITS INSIDE A 4" WALL.			3/4"	

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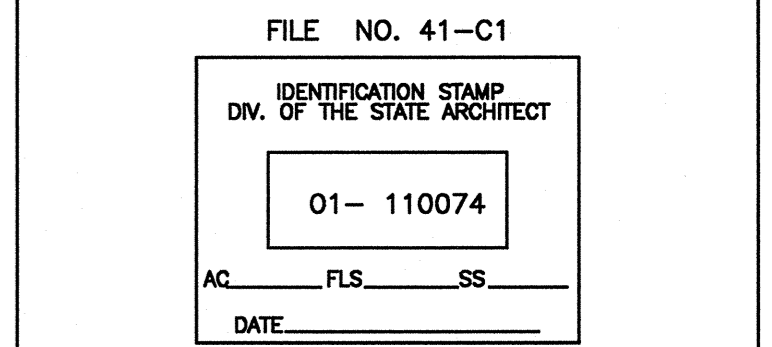
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REVISIONS	DATE
ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
DSA PLAN CHECK	09/29/08
DSA BACK CHECK	01/22/09
BIDDING (BID #86629)	09/18/09
CONSTRUCTION	



**BUILDINGS 5 & 6
RENOVATIONS**
San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

PLUMBING
FIXTURE SCHEDULE

Date 08/28/08
Drawing Number P4.1
Scale AS NOTED
Project Number 07013

PROJECT **2007-0731**
CONTACT **Omar Hawt**

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No. 0018859
Ren. 09/30/09
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
No. 030802
Exp. 12-31-2009
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STATE OF CALIFORNIA

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REVISION HISTORY	REMARKS	DATE

DRAWING STATUS	DATE
<input type="radio"/> DSA PLAN CHECK	
<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING (BID #99593)	
<input type="radio"/> CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01 - 110074

AC 1/20 FLS SS

DATE: **MAR 19 2009**

**BUILDINGS 5 & 6
RENOVATIONS**

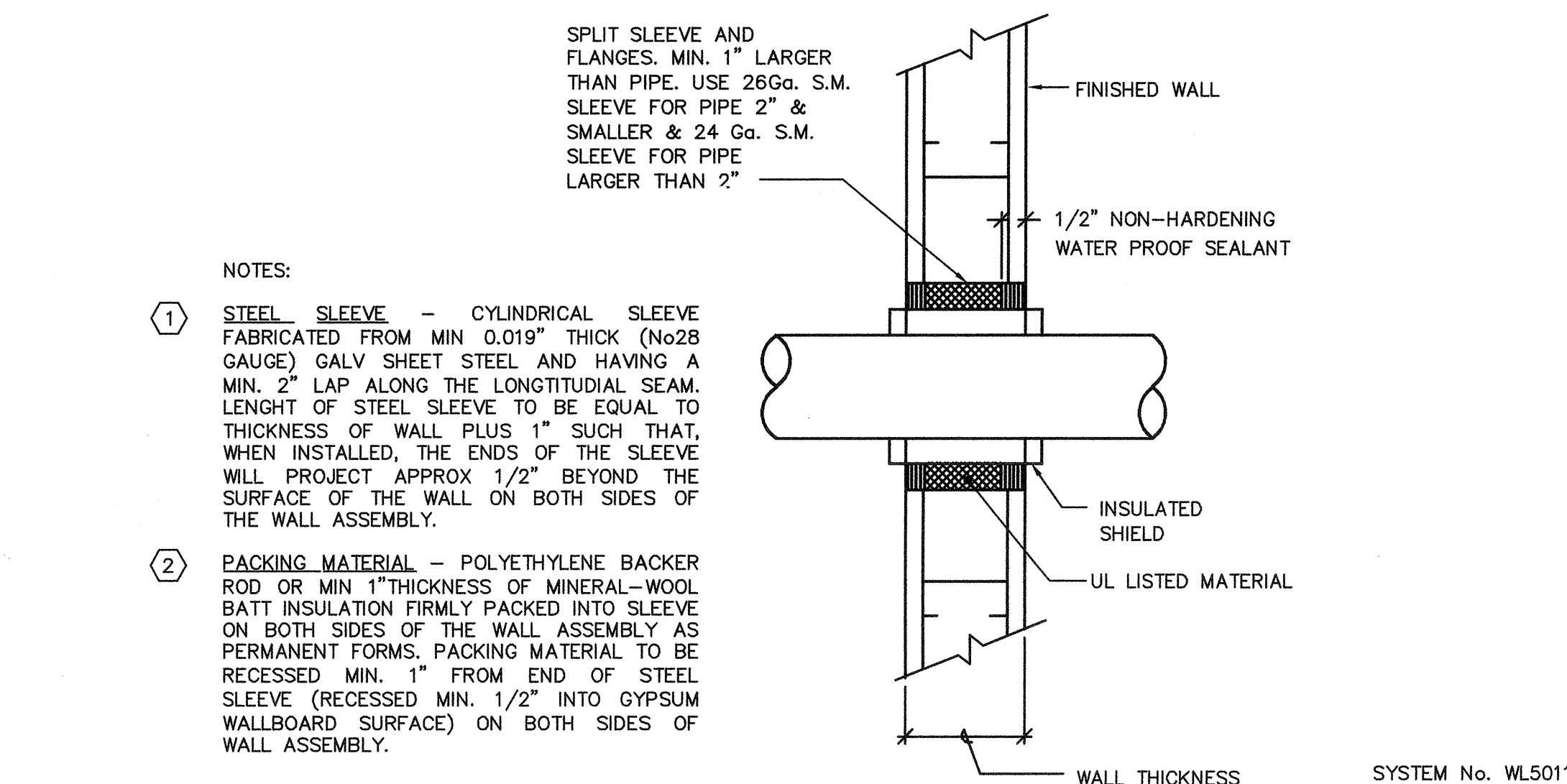
San Mateo County Community
College District

DSA BACK-CHECK

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

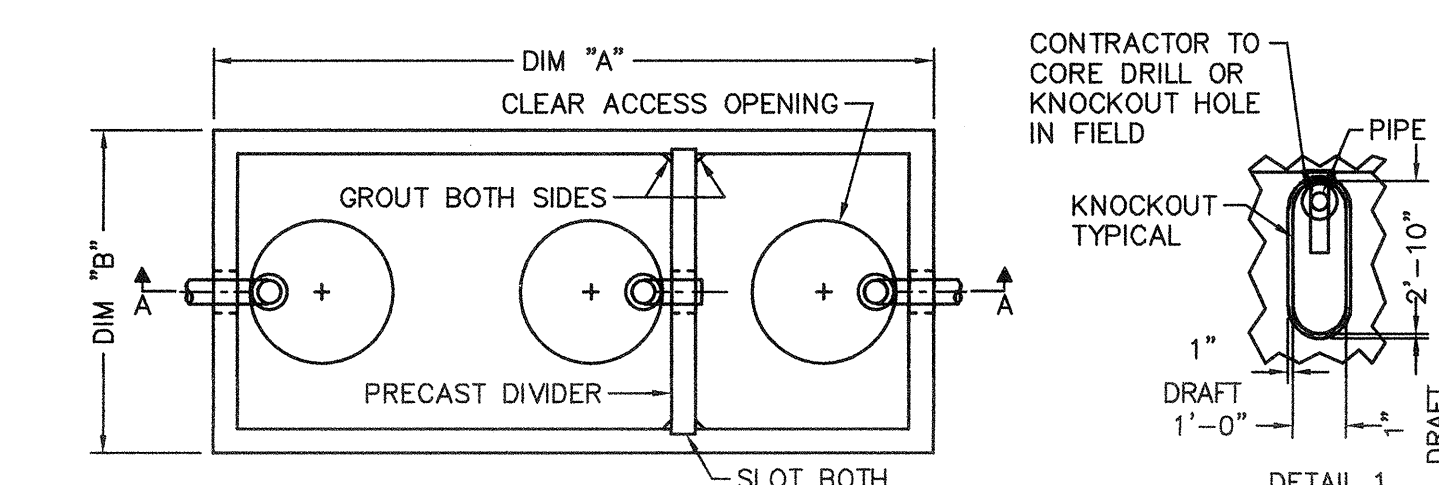
PLUMBING DETAILS

Date **01/22/09** Drawing Number
Scale **AS NOTED** **P6.2**
Project Number **07013**

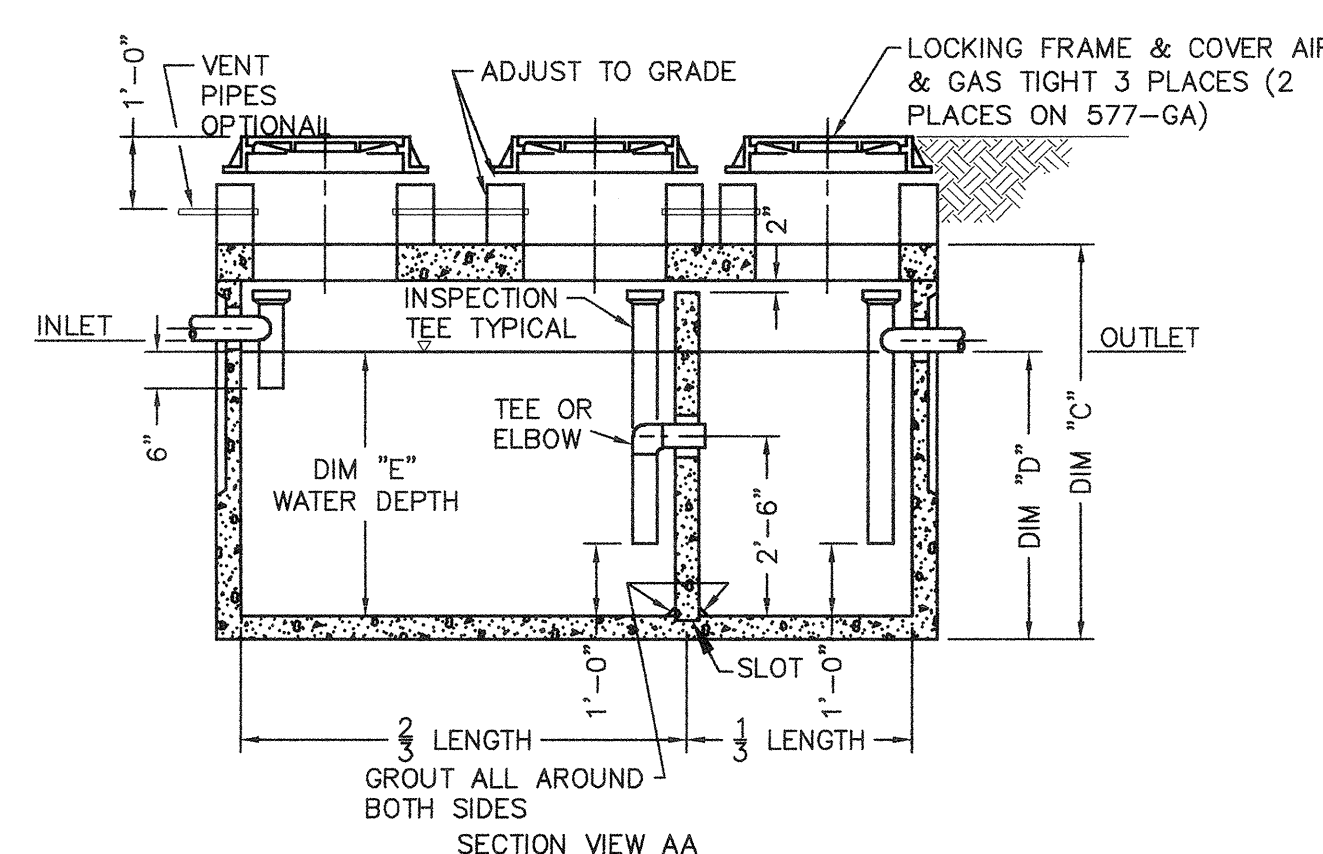


- NOTES:
1. STEEL SLEEVE - CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019\"/>
 2. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR MIN 1\"/>

**TYPICAL PIPE WALL
1 PENETRATION DETAIL (INSULATED PIPE)**
NO SCALE



PLAN VIEW



SECTION VIEW AA

- NOTE:
1. CONTRACTOR TO VERIFY DIMENSIONS FOR INVERTS FROM GRADE TO CENTERLINE. COORDINATE INVERT ELEVATIONS WITH CIVIL ENGINEER.
 2. CONTRACTOR SHALL PROVIDE & INSTALL ALL INTERIOR PIPING IN GREASE INTERCEPTOR.
 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL TO LOCAL OFFICIALS HAVING JURISDICTION PRIOR TO PURCHASE AND INSTALLATION.
 4. CONTRACTOR SHALL FILL INTERCEPTOR WITH CLEAN WATER. ALL PIPING CONNECTIONS AND GRADE RISERS SHALL BE GAS & AIR TIGHT.
 5. MANHOLE STEPS (2 TYP.) SHALL BE INSTALLED AT 30\"/>

- STRUCTURAL NOTES
1. CONCRETE: 28 DAY STRENGTH $f'_c = 4500$ PSI.
 2. REBAR: ASTM A-615 GRADE 60.
 3. MESH: ASTM A-185 GRADE 65.
 4. DESIGN: ACI-318 - 83 BUCKING CODE
ASTM C-857 MIN. STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.
 5. LOADS: H-20 TRUCK WHEEL W/30% IMPACT.
 6. ALL EXTERIOR PIPING SHALL BE CAST IRON.

GALLON CAPACITY	1000
LIV. CO. MODEL NO.	4494-GA
DIM 'A'	9'-0"
DIM 'B'	5'-0"
DIM 'C'	7'-2"
DIM 'D'	4'-2"
WATER DEPTH DIM 'E'	3'-10"

2 GREASE INTERCEPTOR (GI-1)
NO SCALE