GENERAL NOTES

1. PIPING FLOOR PLAN IS DIAGRAMMATIC. ALL ABOVE GRADE PIPING SHOWN NEAR A PLUMBING CHASE IS TO BE LOCATED WITHIN THE PLUMBING CHASE, UNLESS OTHERWISE NOTED. OFFSET PIPING AROUND BEAMS, COLUMNS, WALLS, ETC. AS REQUIRED.
2. ALL EXISTING CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. CONTRACTOR IS TO INCLUDE IN HIS BID ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMODATE THE ACTUAL FIELD CONDITIONS.
3. FIELD VERIFY LOCATIONS OF MECHANICAL SYSTEM UNIT OUTSIDE AIR INTAKES. VENT PIPING TERMINATIONS IN ALL CASES ARE TO BE A MINIMUM OF TEN (10) FEET FROM A/C UNIT OUTSIDE AIR INTAKES AND ARE TO BE OFFSET AS REQUIRED. ALL VENT PIPING SUPPORTS, ETC., NECESSARY TO MEET THIS REQUIREMENT ARE TO BE INCLUDED.
4. ALL HORIZONTAL STORM DRAIN PIPING SHALL MAINTAIN A MINIMUM 2% SLOPE TO POINT OF DISPOSAL.
5. ALL CORING AND PENETRATIONS OF ROOFS, WALLS, FOOTINGS, AND/OR FLOORS FOR PIPING ARE TO BE AS SMALL AS POSSIBLE. OVERSIZING OF OPENINGS IS TO BE AVOIDED.
6. WALL PENETRATIONS ARE TO BE COORDINATED WITH ALL OTHER TRADES AND THE DRAWINGS. WALL PENETRATIONS ARE TO BE KEPT AS HIGH AS POSSIBLE AND ARE TO BE MADE IN AREAS WHERE PIPING WILL BE CONCEALED.
7. IF PENETRATIONS IN EXPOSED LOCATIONS ARE UNAVOIDABLE, INSTALL ESCUCTHEON RINGS AT THESE LOCATIONS.
8. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS.

SITE VISIT PRIOR TO BID SUBMISSION

1. VISIT THE SITE OF THE WORK. COMPARE THE EXISTING CONDITIONS WITH THE DRAWINGS AND SPECIFICATIONS AS TO THE CONDITIONS TO WHICH WORK IS TO BE PERFORMED. ASCERTAIN AND CHECK ALL CONDITIONS AND ELEVATIONS AND TAKE ALL MEASUREMENTS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY ADDITIONAL EXPENSES OR CLAIMS DUE TO THE FAILURE OR NEGLECT UNDER THIS SECTION TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS OR SUCH OTHER DIFFICULTIES VISUALLY OBSERVED DURING THE SITE VISIT.
2. ALL EXISTING CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. CONTRACTOR IS TO INCLUDE IN HIS BID ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMMODATE THE ACTUAL FIELD CONDITIONS.

EXISTING UTILITY CONNECTION NOTES

1. PORTIONS OF THE PLUMBING WORK INCLUDE CONNECTING INTO THE EXISTING BUILDING UTILITY PIPING INCLUDING, BUT NOT LIMITED TO, COLD WATER, WASTE AND VENT PIPING.
2. PRIOR TO ANY SHUTDOWN OF THE BUILDING SYSTEMS NOTIFY DISTRICT A MINIMUM OF TWO (2) WEEKS IN ADVANCE TO COORDINATE REQUIRED SYSTEM DOWN TIME AND APPROPRIATE DATE(S). CONTRACTOR IS RESPONSIBLE FOR BRINGING SYSTEMS BACK ON LINE.
3. AFTER ALL NEW WORK IS COMPLETE, THE CAMPUS SYSTEMS ARE TO BE PURGED OF ALL AIR, FLUSHED OF ALL DEBRIS.

EXISTING CONDITION NOTES

1. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. CONTRACTOR SHALL COMPARE THE PLUMBING DRAWINGS WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THE DRAWINGS OF OTHER TRADES BEFORE COMMENCING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES REQUIRING CLARIFICATION OR REVISION. DO NOT SCALE DRAWINGS.
2. ALL EXISTING UTILITIES SHOWN ARE BASED ON FIELD SITE VISITS AND ON THE AVAILABLE ORIGINAL PLUMBING DRAWINGS. ACTUAL LOCATIONS OF UTILITIES MAY VARY FROM THOSE SHOWN ON THESE DRAWINGS.
3. ALL EXISTING CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. CONTRACTOR IS TO INCLUDE IN HIS BID, ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMMODATE THE ACTUAL FIELD CONDITIONS.

PIPING BRACING GUIDELINES

1. PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-05 13.3 AS DEFINED IN ASCE 7-05 SECTIONS 13.6.8, 13.6.7 AND 13.6.5.5 ITEM 6, RESPECTIVELY.
2. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH OPA # SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
3. COPIES OF THE PRE-APPROVAL MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPING SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SEISMIC BRACING NOTES

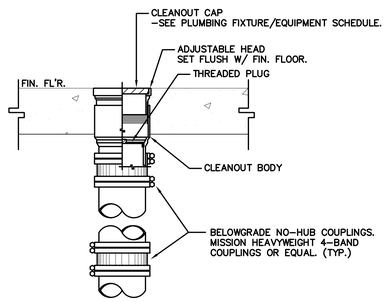
1. ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA.
2. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINE, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE DSA FIELD ENGINEER.
3. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

PLUMBING LEGEND AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
4		SHEET NOTE DESIGNATION
M		ITEM FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR
E		ITEM FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
P		ITEM FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR
1 / P2.1		DETAIL REFERENCE – UPPER NUMBER=DETAIL NUMBER, LOWER NUMBER=SHEET NUMBER
SD	SD	STORM DRAIN PIPING
FCO	FCO	FLOOR CLEANOUT
WCO	WCO	WALL CLEANOUT
		UNION
		CHANGE IN PIPE SIZE
		EXISTING FIXTURES, PIPING OR EQUIPMENT TO REMAIN
		EXISTING FIXTURES, PIPING OR EQUIPMENT TO BE REMOVED
	(E)SD, (E)S, (E)SS	EXISTING STORM DRAIN, SANITARY SOIL OR WASTE PIPING TO REMAIN
	(E)V	EXISTING SANITARY VENT PIPING TO REMAIN
	(E)CW	EXISTING COLD WATER PIPING TO REMAIN

ABBREVIATION	DESCRIPTION
ø	DIAMETER
ø	PHASE
AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
AP	ACCESS PANEL
APPROX.	APPROXIMATE
ARCH.	ARCHITECT, ARCHITECTURAL
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BG	BELOW GRADE
BLDG.	BUILDING
BV	BALL VALVE
CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
℄	CENTERLINE
CI	CAST IRON
CKV	CHECK VALVE
CLG	CEILING
CO	CLEANOUT
COMP.	COMPARTMENT
CONC.	CONCRETE
CONN.	CONNECT, CONNECTION
CONT.	CONTINUATION
CONTR.	CONTRACTOR
CTE	CONNECT TO EXISTING
DEMO	DEMOLITION
DIA.	DIAMETER
DIM.	DIMENSION
DIR.	DIRECT
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
DWGS.	DRAWINGS
(E)	EXISTING
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMBED.	EMBEDMENT
EQ.	EQUAL
EST.	ESTIMATED
EXIST.	EXISTING
FBPC	FURNISHED BY PLUMBING CONTRACTOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF, F.F.	FINISHED FLOOR
F.H.	FLAT HEAD
FIN.	FINISHED
F & I	FURNISHED AND INSTALLED
FU	FIXTURE UNITS
GA.	GAUGE
GC, G.C.	GENERAL CONTRACTOR

ABBREVIATION	DESCRIPTION
GCO	GRADE CLEANOUT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
HB	HOSE BIBB
HT.	HEIGHT
IE, I.E.	INVERT ELEVATION
IFC	IN FURRED CEILING
IND.	INDIRECT
INV	INVERT
LBS., #	POUNDS
MAX.	MAXIMUM
MECH.	MECHANICAL
MFG.	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM
(N)	NEW
OC	ON CENTER
OPER.	OPERABLE
PC, P.C.	PLUMBING CONTRACTOR
PLMB.	PLUMBING
P.O.C.	POINT OF CONNECTION
PRESS.	PRESSURE
PSI, PSI.	POUNDS PER SQUARE INCH
P/T	PRESSURE/TEMPERATURE
REF.	REFERENCE
REQD.	REQUIRED
REV.	REVISION
RHWS	ROUND HEAD WOOD SCREWS
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SCH 40, 80	SCHEDULE 40 OR 80 PIPE
SD	STORM DRAIN
SED	SEE ELECTRICAL DRAWINGS
S.F., SF	SQUARE FEET
SM	SHEET METAL
SMD	SEE MECHANICAL DRAWINGS
SOV	SHUT-OFF VALVE
SS	STAINLESS STEEL
SS	SANITARY SEWER
SSD	SEE STRUCTURAL DRAWINGS
SSMH	SANITARY SEWER MANHOLE
TP	TRAP PRIMER
T&P	TEMPERATURE AND PRESSURE
TPC	TRAP PRIMER CONNECTION
TYP, TYP.	TYPICAL
UNO	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WC	WATER COLUMN (PRESS.)
WCO	WALL CLEANOUT
WH	WATER HEATER
WOG	WATER OIL GAS
WT.	WEIGHT

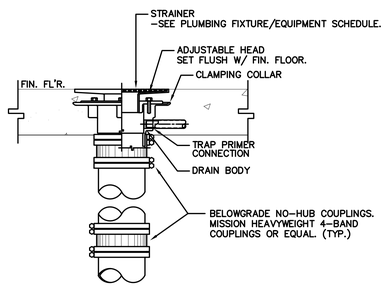


FLUSH FLOOR CLEANOUT DETAIL — 2 / P0.1

NO SCALE

NOTES:

1. AT LOCATIONS WHERE CLEANOUT OCCURS MIDWAY IN PIPING RUN, INSTALL TWO-WAY CLEANOUT FITTING IN PIPING RUN BELOW.
2. PROVIDE UNDERDECK CLAMP AND ROOF SUMP RECEIVER AT DECK LOCATIONS.



FLOOR DRAIN DETAIL — 1 / P0.1

NO SCALE

NOTES:

1. AT LOCATIONS WHERE CLEANOUT OCCURS MIDWAY IN PIPING RUN, INSTALL TWO-WAY CLEANOUT FITTING IN PIPING RUN BELOW.
2. PROVIDE UNDERDECK CLAMP AND ROOF SUMP RECEIVER AT DECK LOCATIONS.

PLUMBING FIXTURE/EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	SD	V	CW	SPECIFICATIONS AND REMARKS
FD	FLOOR DRAIN	3"	–	–	ZURN ZN-415-P-VP NICKEL BRONZE FLOOR DRAIN WITH INTEGRAL MEMBRANE CLAMP AND ADJUSTABLE COLLAR. PROVIDE VANDALPROOF SECURED TOP. 6" DIA., "TYPE B" STRAINER. VERIFY THAT MOUNTING ARRANGEMENT MEETS THE REQUIREMENTS OF THE FLOOR IN WHICH IT IS TO BE INSTALLED.SEE PLUMBING DETAILS FOR REQUIREMENTS.
FCO	FLOOR CLEANOUT	LINE SIZE 4" MAX.	–	–	ZURN ZN-1400-BP-KC NICKEL BRONZE CLEANOUT WITH BRONZE PLUG, ANCHOR FLANGE AND CLAMPING COLLAR TO SECURE BUILDING WATERPROOF MEMBRANE. SEE PLUMBING DETAILS FOR REQUIREMENTS.

PLUMBING LIST OF DRAWINGS

noll & tam
architects and planners
729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01- 111618
AC _____ FLS _____ SS _____
DATE

CALIFORNIA STATE FIRE MARSHAL APPROVED

APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

REVIEWED BY: _____ DATE: _____

CAÑADA COLLEGE

Electrical Infrastructure Replacement Project

4200 Farm Hill Blvd
Redwood City, CA 94061

RECORD SET

SHEET TITLE

PLUMBING LEGEND AND NOTES

REVISIONS

NO.	DATE	DESCRIPTION

DATE June 15, 2012
DRAWN VT/AL
CHECKED MW
SCALE NO SCALE
JOB NO. 2921.01

SHEET NUMBER

P0.1