

WATER SYSTEM NOTES

- ALL WATER WORKS SHALL BE IN ACCORDANCE WITH THE LATEST SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT STANDARD PLANS AND SPECIFICATIONS, AND SHALL BE SUBJECT TO INSPECTION BY THE DEPARTMENT.
- FIRE WATER SYSTEM SHALL ALSO BE COORDINATED WITH AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST CITY OF SAN BRUNO FIRE DEPARTMENT STANDARD PLANS AND SPECIFICATIONS, AND SHALL BE SUBJECT TO INSPECTION BY THE DEPARTMENT.
- WATER TIE-IN WILL BE FROM THE EXISTING 10 ON-SITE WATER MAIN LOCATED TO THE WEST OF BUILDING 4 ON COLLEGE LOOP ROAD. HOT TAPS TO EXISTING 12" WATER MAIN SHALL BE PERFORMED BY CONTRACTOR.
- WATER METER:
• CONTRACTOR TO INSTALL WM (DOMESTIC), FURNISHED BY DISTRICT. WM SHALL BE PURCHASED FROM AND SIZES DETERMINED BY THE CITY OF SAN MATEO.
- BACK FLOW PREVENTION DEVICES:
• CONTRACTOR SHALL PROVIDE AND INSTALL REDUCED PRESSURE BFPs FOR THE DOMESTIC & IRRIGATION WATER SERVICES; AND DOUBLE DETECTOR CHECK ASSEMBLY WITH BY-PASS WATER METER FOR THE FIRE WATER SERVICE, FROM THE CURRENT USC APPROVED LIST (WWW.USC.EDU/DEPT/FCOHR/LIST.HTML) OR AS SPECIFIED BELOW:
a. FW - 8 FEBCO 80670 DCDA
• SEE DETAIL 1 ON C-902 FOR PCC MAINTENANCE PADS INFORMATION.
• CONTRACTOR TO COORDINATE WITH OWNER FOR WATER SHUT-DOWN AND SHALL NOT HAVE (E) FACILITY SHUT DOWN FOR MORE THAN 4 HOURS.
- FIRE HYDRANT (FH) AND FIRE DEPARTMENT CONNECTION (FDC)
• CONTRACTOR SHALL PROVIDE AND INSTALL 1" FH ASSEMBLIES AND FDC, AS SHOWN ON PLAN.
• FH BLUE REFLECTORS TO BE INSTALLED PARALLEL TO THE FHS.
- SIZES OF WATER SERVICES:
• DOMESTIC WATER 4
• COMBINED (DOMESTIC & IRRIGATION) 10
• FIRE WATER 8
• FIRE SPRINKLER 8
• IRRIGATION 6
- CONTRACTOR TO COORDINATE ALL (N) IRRIGATION SYSTEM WORK WITH THE LANDSCAPE DRAWINGS AND THE RECONNECTION OF (E) IRRIGATION SYSTEM WITH SKYLINE COLLEGE DISTRICT.
- MIN COVER FOR PIPE INSTALLATION:
• DW/IRR 3 FT
• FW 5 FT
- PIPE MATERIALS:
• UNDERGROUND:
DW & FW: ASTM D1784, AWWA C900, CLASS 200 (DR14) PVC PRESSURE PIPE
IRR: ASTM D1785, SCHEDULE 40 PVC PRESSURE PIPE
HWS&R: ASTM A53, CLASS 150 SCHEDULE 40 STEEL PIPE WITH ASTM C502, TYPE II, CALSS 1 RIGID INSULATION ENCASED IN 60 MIL MINIMUM PVC PIPE.
• ABOVE GROUND:
DUCTILE IRON PIPE, ANSI/AWWA STANDARD C104
- PROVIDE AND INSTALL ALL VALVES AND APPURTENANCES FROM TIE-IN TO 5' OUTSIDE OF BUILDING.
- INSTALL THRUST BLOCKS FOR UNDERGROUND PIPING AND MECHANICAL JOINTS FOR ABOVE GROUND INSTALLATION AND AS NECESSARY.
- ALL PIPING AND THRUST BLOCKING SHALL BE INSPECTED BY FIRE AUTHORITY HAVING JURISDICTION PRIOR TO BEING COVERED.
- TESTING:
• ALL NEW UNDERGROUND WATER PIPES SHALL BE INSTALLED AND PRESSURE TESTED PER NFPA 24. WATER TEST SHALL INCLUDE 2 HOURS @ 200 PSI AND IRRIGATION TEST SHALL INCLUDE 2 HOURS @ 120 PSI. WITNESSED BY THE INSPECTOR OF RECORD.
• HYDRANTS AND UNDERGROUND PIPING SHALL BE FLUSHED PER TABLE 9-1-1 (NFPA 24) TO PRODUCE A VELOCITY OF 10 FPS IN PIPES. WITNESSED BY THE INSPECTOR OF RECORD.
• ALL WATER LINES SHALL BE STERILIZED BY CHLORINATION IN ACCORDANCE WITH AWWA STANDARD C651-86 DISINFECTING WATER MAINS AND AS SPECIFIED BY THE SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT.

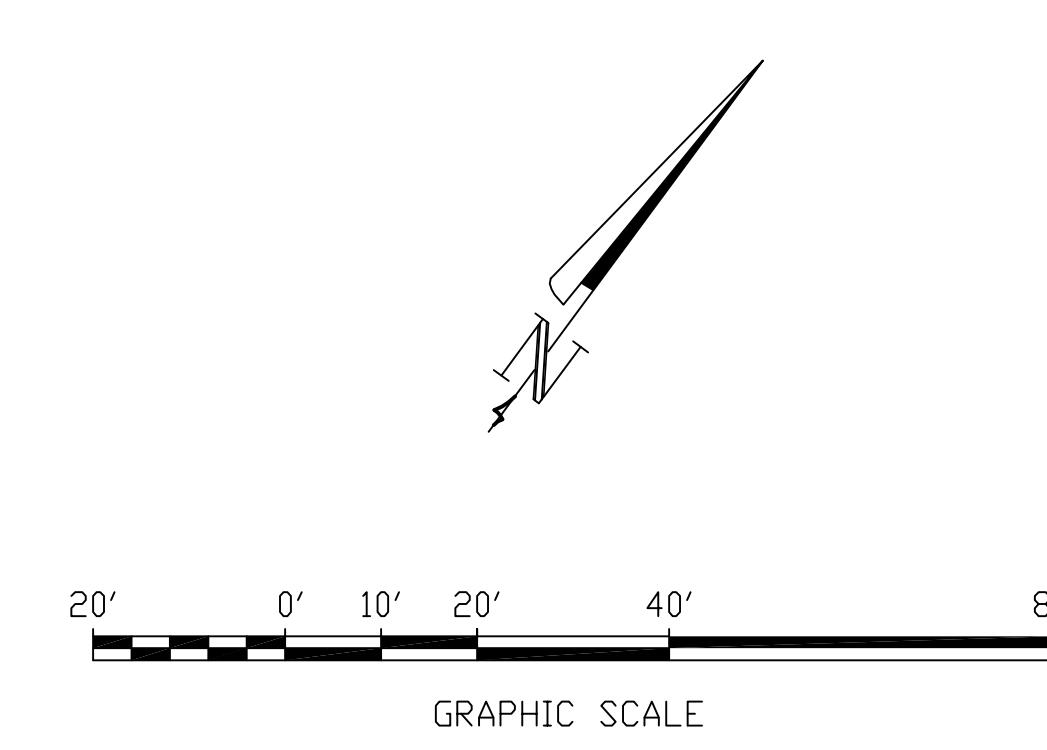
WATER STRUCTURE CALLOUT

STRUCTURE ID	NORTHING	EASTING	TYPE	DETAIL
DCDA 101	2,058,202.3442	5,991,947.5881	FEBCO 876V	(C-907)
DCDA 201	2,058,043.5738	5,992,320.9387	FEBCO 876V	(C-907)

STRUCTURE ID	NORTHING	EASTING	TYPE	DETAIL
FH 101	2,058,286.3408	5,992,095.3763	CLOW MODEL 960 SERIES	(C-907)
FH 201	2,058,092.9625	5,992,136.2577	CLOW MODEL 960 SERIES	(C-907)

STRUCTURE ID	NORTHING	EASTING	TYPE	DETAIL
FDC 101	2,058,234.1764	5,992,080.4688	CROCKER 2-WAY	(C-907)
FDC 201	2,058,048.2826	5,992,320.5943	CROCKER 2-WAY	(C-907)

REFERENCE



WATER DISTRIBUTION NOTES

1 RECONNECT TO (E) SERVICE OR MAIN. EXACT TIE-IN LOCATION AND INVERT V.I.F.

LEGEND & ABBREVIATION

ABBR.	SYMBOL	DESCRIPTION	DETAIL
(E) FH		EXISTING FIRE HYDRANT	-
(N) FH		NEW FIRE HYDRANT	(4) (C-907)
(N) FDC		NEW FIRE DEPARTMENT CONNECTION	(3) (C-907)
CV		CHECK VALVE	-
GV		GATE VALVE	(7) (C-907)
TB		THRUST BLOCK	(5) (C-907)
BFP		BACKFLOW PREVENTOR & PCC MAINTENANCE PAD	(1) (C-907)
WM		WATER METER	-
W		COMBINED WATER PIPE	-
DW		DOMESTIC WATER PIPE	(2) (C-902)
FW		FIRE WATER PIPE	-
IRR		IRRIGATION PIPE	-
----		REMOVE PIPE	-
HWR		HOT WATER RETURN PIPE	-
HWS		HOT WATER SUPPLY PIPE	-

* SMCCCD - SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

