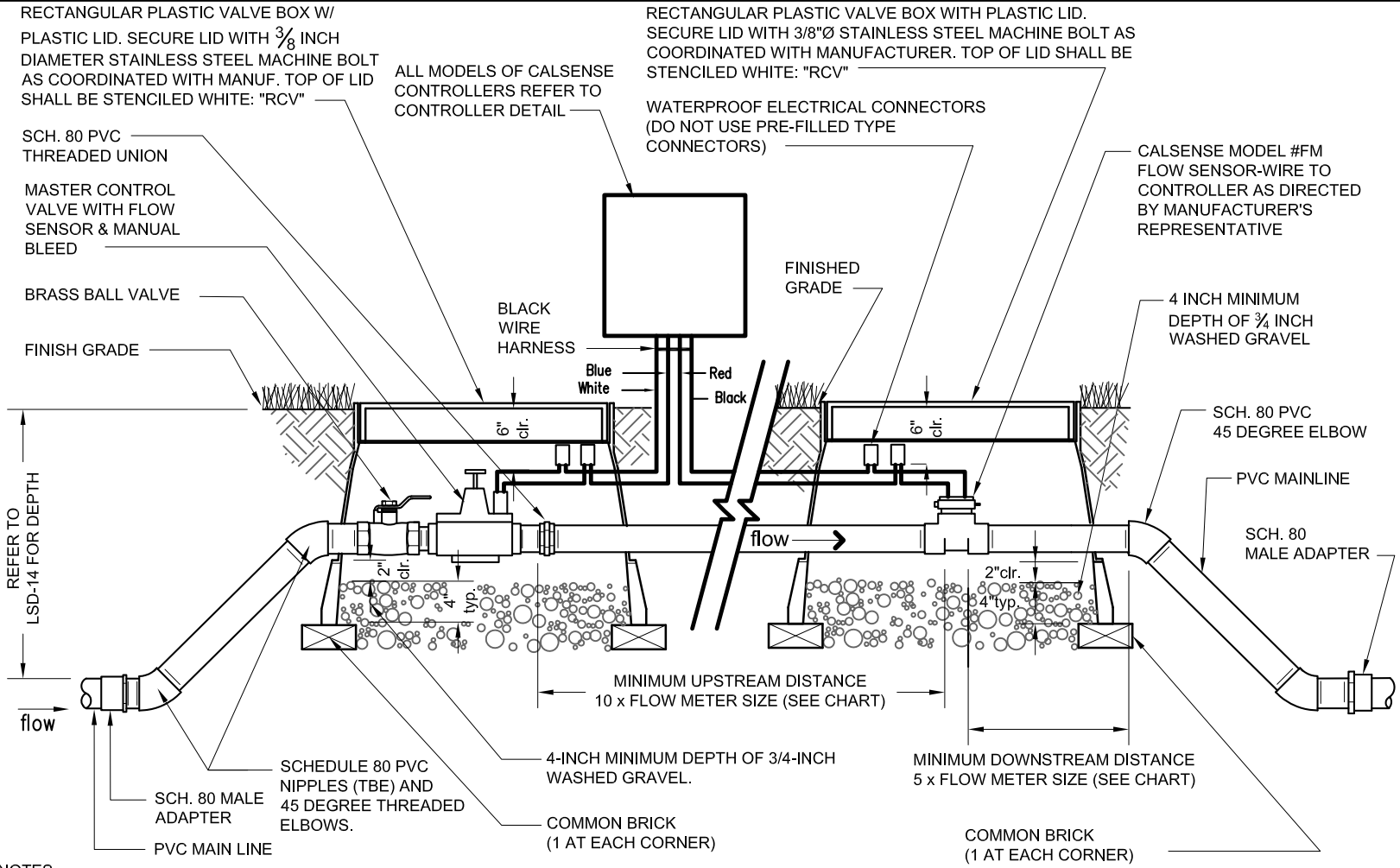


FILE NO.	LSD-24.DWG	SCALE	3/4" = 1'-0"	DRAWN	AK/MM	CHECKED	RER	DATE	NOV. 2005	DWG NO.	LSD-24	1 of 1
REVISIONS	APPR	REVISED	DATE	CITY OF FREMONT STANDARD DETAILS CITY STANDARD IRRIGATION MASTER VALVE AND FLOW SENSOR								
	General Revision	General Revision	07/31/22									
	General Revision	General Revision	08/20/19									
DATE APPROVED BY CITY COUNCIL		12/13/11		CITY ENGINEER <i>Maria Ruyter</i>								
RESOLUTION NO.		2006-31										



NOTES:

- DISTANCE BETWEEN MASTER CONTROL VALVE AND FLOW SENSOR, FLOW SENSOR AND FIRST DOWNSTREAM ELBOW SHALL BE PER MANUFACTURER'S RECOMMENDATIONS
- ALL BOXES SHALL BE CARSON 1324 OR APPROVED EQUAL.
- REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS
- EXPOSE THE EXISTING IRRIGATION MAIN LINE:
FOR 3" OR SMALLER, REMOVE A SHORT SECTION OF THE MAIN LINE AND INSTALL A NORMALLY OPEN MASTER VALVE. REFER TO PIPE SIZING CHART FOR MINIMUM LENGTH TO ACCOMMODATE A CALSENSE TEE-TYPE MODEL FM FLOW SENSOR. EXPOSE 48" BEYOND FLOW SENOR TO VERIFY THAT NO CONNECTIONS EXIST ON THE MAIN LINE.

FOR 4", REMOVE A SHORT SECTION OF 4" MAIN LINE AND INSTALL A 4" NORMALLY OPEN MASTER VALVE. AT 40" DOWN THE MAIN LINE FROM THE MASTER VALVE INSTALL A ROMAC STRAP SADDLE (MODEL 101S). CUT A HOLE IN THE WALL OF THE PIPE TO ACCOMMODATE A CALSENSE MODEL FMBX FLOW SENSOR. EXPOSE 48" BEYOND FLOW SENOR TO VERIFY THAT NO CONNECTIONS EXIST ON THE 4" MAIN LINE.

FOR 6", REMOVE A SHORT SECTION OF 6" MAIN LINE AND INSTALL A 4" NORMALLY OPEN MASTER VALVE. AT 60" DOWN THE MAIN LINE FROM THE MASTER VALVE INSTALL A ROMAC 4"x2" SINGLE STRAP SADDLE (MODEL 101N). CUT A HOLE IN THE WALL OF THE PIPE TO ACCOMMODATE A CALSENSE MODEL FMBX FLOW SENSOR. EXPOSE 48" BEYOND FLOW SENOR TO VERIFY THAT NO CONNECTIONS EXIST ON THE 6" MAIN LINE.

PIPE SIZING CHART		
FLOW METER SIZE	UPSTREAM LENGTH (10x)	DOWNSTREAM LENGTH (5x)
1"	10"	5"
1.25"	12.5"	6.25"
1.5"	15"	7.5"
2"	20"	10"
3"	30"	15"
4"	40"	20"
6"	60"	30"