

- KEY NOTES:**
- GATE VALVES 3" AND LARGER FLANGED ENDS WITH 2" NUT
 - DILUO 3" BETWEEN VALVE BOX
 - VALVE BOX WITH BOLT TO DOWN.
 - TOP OF MULCH.
 - 6" DIAMETER SCH. 40 PVC PIPE WHEELS.
 - PEA GRAVEL.
 - LAYER OF CLEAN PEA GRAVEL
 - COMMON BRICK; 4" MINIMUM
 - SCH. 80 PVC FLANGES TYP. (2) PLACES
 - CONCRETE STABILIZER WITH #4 REBAR REINFORCEMENT FOR VALVES 4" OR LARGER ONLY
 - SQUARE OPERATING NUT

B1 GATE VALVE
NOT TO SCALE

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE TYPE. THE LENGTHS LISTED SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & SPECIFICATIONS. AS AN EXAMPLE, IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS YOU WILL SEE THE DISTANCE WITHIN 1" OF THE 90° MAINLINE DIRECTIONAL CHANGE

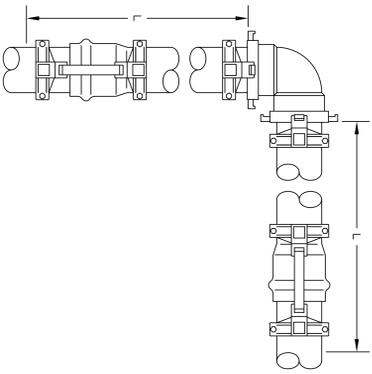
PIPE SIZE	BENDS			REDUCERS			BLIND SERV. B.
	1"*	22"	45"†	1 STEP	2 STEP	3 STEP	
2.5"	1'	1'	2'	—	—	—	1.9'
3"	1'	1'	2'	—	—	—	6"
3.5"	1'	1'	2'	—	—	—	1.9'
4"	1'	1'	2'	—	—	—	3.0'
4.5"	1'	1'	2'	—	—	—	1.9'
5"	1'	1'	2'	—	—	—	1.9'
5.5"	1'	1'	2'	—	—	—	1.9'
6"	1'	1'	2'	—	—	—	1.9'
6.5"	1'	1'	2'	—	—	—	1.9'
7"	1'	1'	2'	—	—	—	1.9'
7.5"	1'	1'	2'	—	—	—	1.9'
8"	1'	1'	2'	—	—	—	1.9'
8.5"	1'	1'	2'	—	—	—	1.9'
9"	1'	1'	2'	—	—	—	1.9'
9.5"	1'	1'	2'	—	—	—	1.9'
10"	1'	1'	2'	—	—	—	1.9'
10.5"	1'	1'	2'	—	—	—	1.9'
11"	1'	1'	2'	—	—	—	1.9'
11.5"	1'	1'	2'	—	—	—	1.9'
12"	1'	1'	2'	—	—	—	1.9'

INSTALLATION CHART

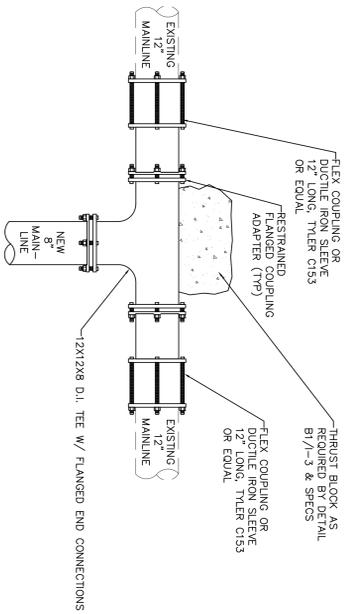
REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE AND TORQUE FOR EACH PIPE SIZE AND BEND. REFER TO THE NUMBER OF BOLTS, SIZE AND TORQUE FOR EACH PIPE SIZE AND BEND. REFER TO THE NUMBER OF BOLTS, SIZE AND TORQUE FOR EACH PIPE SIZE AND BEND.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT.-LBS.
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
3.5"	2	3/8" x 2.5"	20
4"	2	3/8" x 2.5"	20
4.5"	2	3/8" x 2.5"	20
5"	2	3/8" x 2.5"	20
5.5"	2	3/8" x 2.5"	20
6"	2	3/8" x 2.5"	20
6.5"	2	3/8" x 2.5"	20
7"	2	3/8" x 2.5"	20
7.5"	2	3/8" x 2.5"	20
8"	2	3/8" x 2.5"	20
8.5"	2	3/8" x 2.5"	20
9"	2	3/8" x 2.5"	20
9.5"	2	3/8" x 2.5"	20
10"	2	3/8" x 2.5"	20
10.5"	2	3/8" x 2.5"	20
11"	2	3/8" x 2.5"	20
11.5"	2	3/8" x 2.5"	20
12"	2	3/8" x 2.5"	20

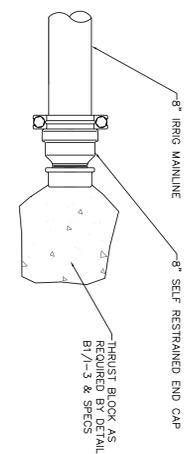
D1 JOINT RESTRAINT CHART
NOT TO SCALE



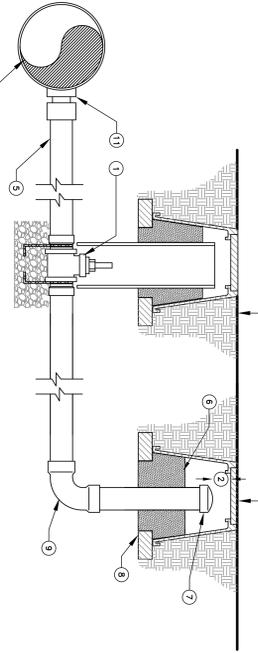
NOTE: MECHANICAL JOINT RESTRAINTS ARE TO BE USED FOR ALL JOINTS. JOINT RESTRAINTS ARE TO BE USED FOR ALL JOINTS. JOINT RESTRAINTS ARE TO BE USED FOR ALL JOINTS.



B3 POINT OF CONNECTION/CUT-IN TEE
NOT TO SCALE



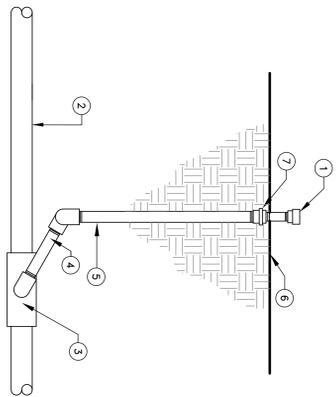
B5 MAINLINE END CAP
NOT TO SCALE



KEY NOTES:

- 2" GATE VALVE - PER DETAIL B1
- DILUO 3" BETWEEN VALVE BOX
- 10" DIAMETER PLASTIC ROUND
- VALVE BOX WITH BOLT TO DOWN.
- TOP OF MULCH.
- 6" DIAMETER SCH. 40 PVC PIPE
- PEA GRAVEL
- CAP - UNINCLUDED
- COMMON BRICK; 4" MINIMUM
- SCH. 80 ELBOW
- MAINLINE
- 2" CURB STOP OR SADDLE TAP

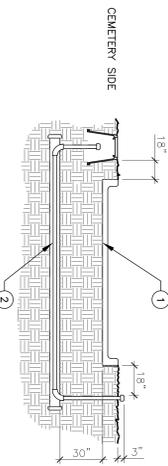
D4 BLOW OFF VALVE ASSEMBLY
NOT TO SCALE



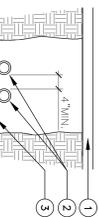
F1 SHRUB BUBBLER
NOT TO SCALE

KEY NOTES:

- RUBBER HEAD, INSTALL 4" ABOVE FINISH GRADE WITH TREE OR SHRUB ROOT BALL PLACED ON HIGH SIDE OF
- LATERAL LINE
- LATERAL LINE FITTING WITH THREADED
- FACTORY-FABRICATED 3 PLANE PVC SWING JOINT, 150 PSI MIN. RATING
- SCHEDULE 80 PVC NIPPLE
- FINISH GRADE
- PVC CHECK VALVE



F3 SLEEVES
NOT TO SCALE



KEY NOTES:

- PAVING
- (2) 4" SLEEVES W/CAP, UNINCLUDED
- TRENCH

- NOTE:**
- EXTEND ONE SLEEVE ON CEMETERY SIDE
 - VERTICALLY INTO TOP OF VALVE BOX
 - VERTICALLY TO 5" ABOVE GRADE. CEMETERY
 - ALL PVC IRRIGATION SLEEVING SHALL BE
 - ALL JOINTS SHALL BE SOLVENT WELDED
 - MECHANICALLY TAMP BACKFILL TO 95%

CONSULTANTS:

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CONSTRUCTION DOCUMENTS

Drawing Title	Project Title	Project Number	Building Number	Drawing Number
IRRIGATION DETAILS	SAN JOAQUIN VALLEY NATIONAL CEMETERY NATIONAL CEMETERY PRE-PLACED CURBS IN SECTION 21	9130M012		1-4
Approved Project Director	Location	Date	Checked	Drawn
	SAN JOAQUIN VALLEY NATIONAL CEMETERY SANTA NEILA CALIFORNIA	09/28/2015	MS	RAW

