

# **STANDARD DRAWINGS**

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## **SECONDARY**

2001 BACKFLOW PREVENTION DEVICE IRRIGATION CONNECTION  
2002 SECONDARY WATER LATERAL LAYOUT  
2005 VALVE BOX INSTALLATION  
2006 DIRECT BEARING THRUST BLOCKS TIE DOWN RESTRAINTS  
2007 TIE DOWN THRUST RESTRAINTS  
2008 WASHOUT VALVE ASSEMBLY  
2010 SECONDARY WATER AIR VACUUM RELEASE VALVE  
2011 SECONDARY RESIDENTIAL INSTALLATION  
2012 SECONDARY WATER SERVICE CONNECTION  
2014 PRESSURE IRRIGATION CANAL GATE AND WEIR BOX  
2015 PRESSURE IRRIGATION CANAL GATE AND WEIR BOX  
2016 DRAIN VALVE DETAIL  
2017 COVER COLLAR  
2020 IRRIGATION SLIDE GATE DETAIL  
2021 HEADWALL DETAIL  
2022 HEADWALL DETAIL  
2023 SILT TRAP BOX DETAIL  
2024 SECONDARY WATER METER BOX

## **STORM DRAIN**

SD-1 MANHOLE COVERS  
SD-2 MANHOLE COVERS 2  
SD-3 STORM DRAIN MARKERS  
SD-4 STORM DRAIN MARKER ANCHORS  
4010 DRY WELL  
4015 RIPRAP APRON

## **STREETS**

3010 TRENCH CROSS SECTION TERMINOLOGY & STANDARD SIZES  
3012 ROAD WIDENING  
S-1 ROAD WIDTHS AND BORDER AREAS  
S-2 SINGLE FAMILY REAR AND SIDE PARK STRIPS ON COLLECTOR STREETS  
S-3 SIGN POSTS  
SN 10B SLIP BASE SIGN BASE (B3) INSTALLATION  
DT-01 CURB EXTENSION  
3020 SIGNAGE FOR GABRAGE ROUTES  
SHUR-FLEX DRIVEABLE DELINEATOR  
SHUR-FLEX SURFACE MOUNT BASE

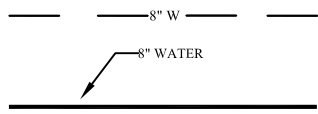
## **STREETLIGHT**

SL-1 STANDARD UTILITY TRENCH  
SL-2 ELECTRICAL BOX LID  
SL-3 STEELIGHT PEDESTALS  
TSG 007077 CATEGORY 1a STREETLIGHT  
TSG 002636 CATEGORY 1b STREETLIGHT  
TSG 003175 CATEGORY 2 STREETLIGHT  
TSG 007220 CATEGORY 3 STREETLIGHT  
TSG 003314 CATEGORY 4 STREETLIGHT  
SP-6224-GLV CABLE RETAINER ASSEMBLY FOR 4" FOUNDATIN ANCHOR  
SP-6200-GLV CABLE RETAINER ASSEMBLY FOR 6" FOUNDATIN ANCHOR  
SP-6205-GLV CABLE RETAINER ASSEMBLY FOR 8" FOUNDATIN ANCHOR

SP-6358-GLV TUBE ASSEMBLY FOR 6" CABLE RETAINER  
PB-5520 DOOR ASSEMBLY TB1-17 TRANSFORMER BASE  
PB-5526 DOOR ASSEMBLY TB1-20 TRANSFORMER BASE

# WATER





EXISTING WATER

PROPOSED WATER



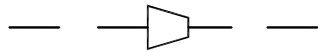
VALVE



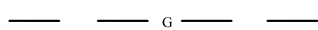
FIRE HYDRANT



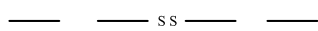
PRESSURE REGULATING VALVE



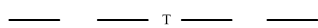
REDUCER/ENLARGER



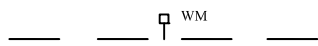
GAS LINE



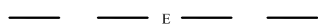
SEWER LINE



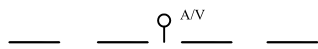
TELEPHONE LINE



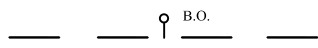
WATER METER



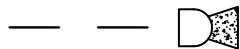
ELECTRIC LINE



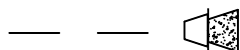
AIR AND VACUUM VALVE



BLOW-OFF



END CAP



PLUG



THRUST BLOCK

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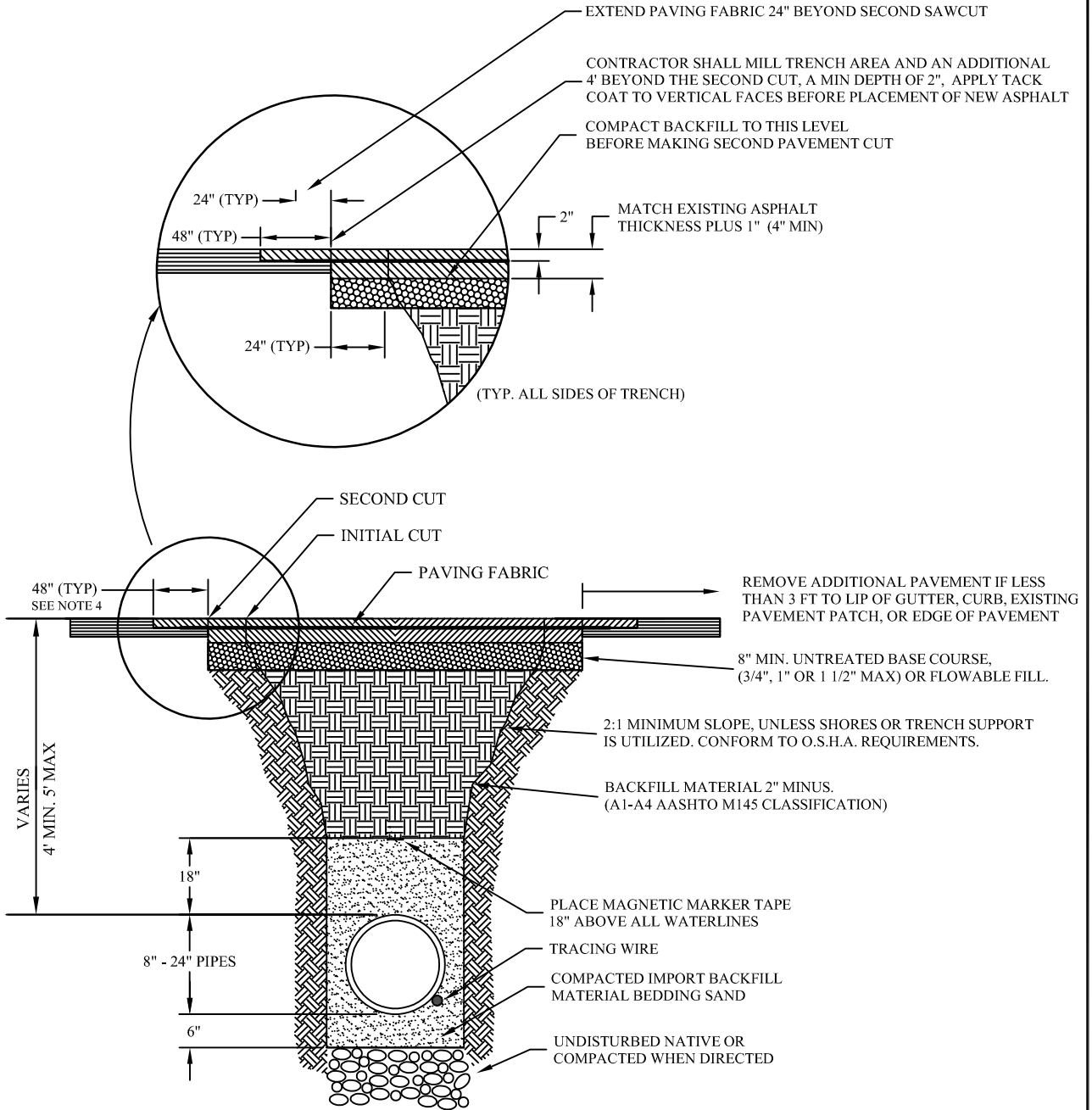


SOUTH JORDAN CITY

			DRAWN: KS
			DATE 1/06
DATE	REVISIONS	BY	

STANDARD SYMBOLS

STANDARD  
DRAWING  
**3005**



**NOTES:**

1. NO SAW CUTS TO END UP IN THE WHEEL PATH
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 4 FT BEYOND THE SECOND CUT OR AS DIRECT BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PAVING FABRIC PER APWA STANDARD ROADWAY PAVEMENT GEOTEXTILE, NON-WOVEN
4. IF THE OCI RATING OF THE ROAD IS BETWEEN 80 AND 100, THE 48" WILL BE INCREASED TO FULL WIDTH OF ROAD, OR AS DETERMINED BY THE CITY ENGINEER OR DESIGNEE.

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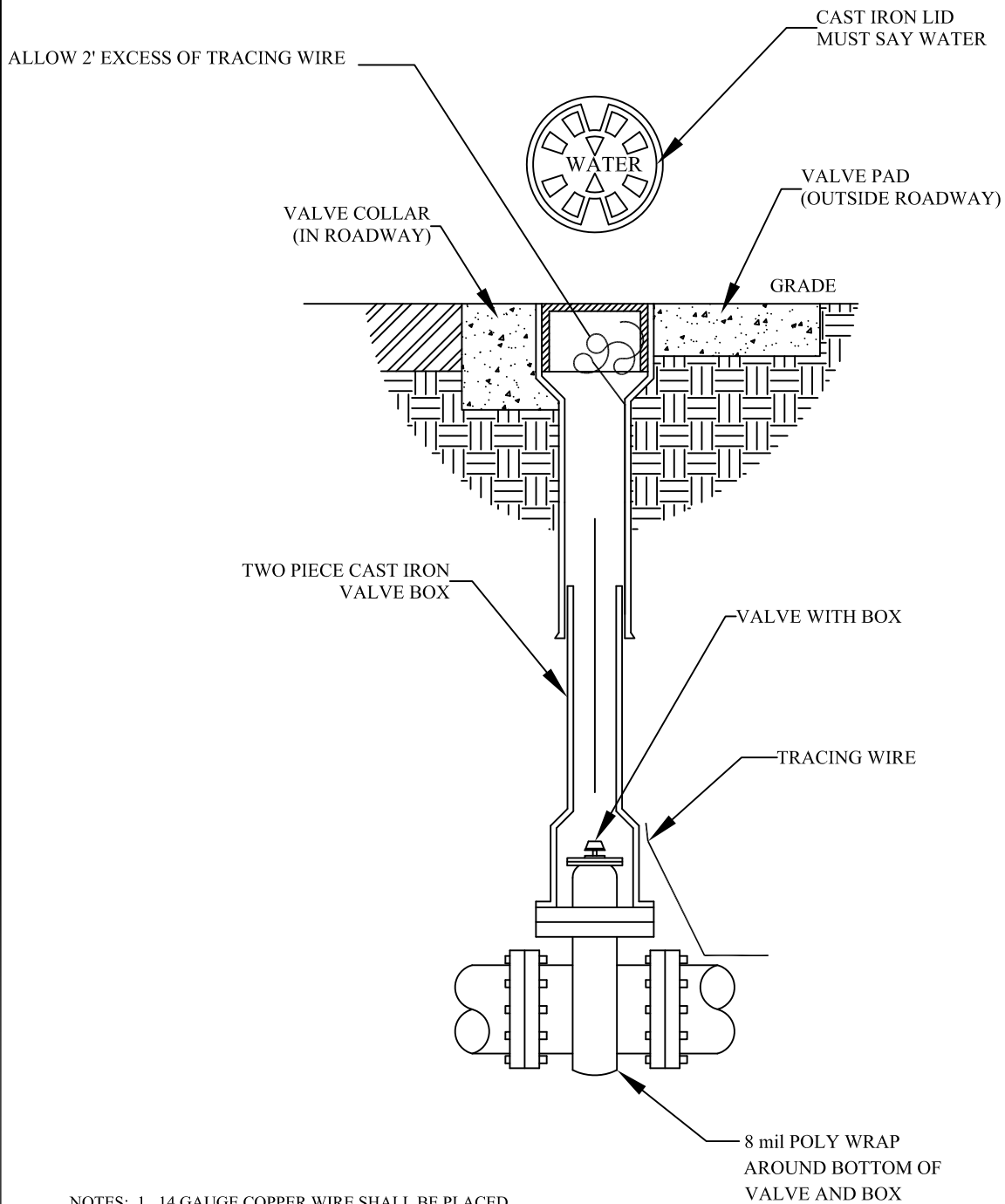


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			DATE
			1/06

**TRENCH CROSS SECTION  
TERMINOLOGY & STANDARD SIZES**

STANDARD  
DRAWING  
**3010**



- NOTES: 1. 14 GAUGE COPPER WIRE SHALL BE PLACED OUTSIDE OF BOTTOM OF BOX AND INSIDE TOP OF BOX
2. VALVE OPERATING NUTS SHALL BE WITHIN 3' TO THE FINISHED SURFACE. EXTENTIONS STEMS WITH ROCK SHIELDS SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.

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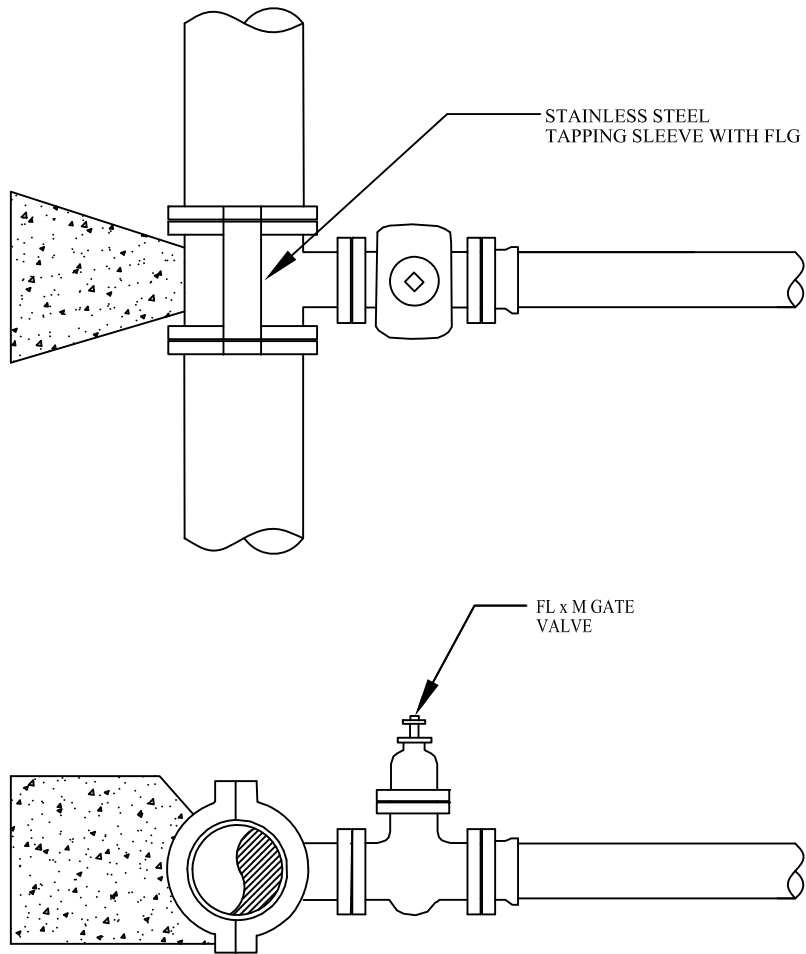


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**VALVE BOX INSTALLATION**

STANDARD  
DRAWING  
**3040**



NOTES:

1. REFER TO SECTION 3.3.8 'MAIN LINE VALVES' FOR TAPPING SLEEVE AND VALVE REQUIREMENTS, AND SECTION 3.7.9 'HOT TAPPING' FOR INSTALLATION INSTRUCTIONS INTERSECTIONS MAY BE OMITTED.
2. SEE SECTION 3.3.4 'MAIN LINE FITTING' AND SECTION 3.7.11 'INSTALLATION OF VALVES AND FITTINGS' FOR INSTALLATION AND WRAPPING FOR BOLTED CONNECTIONS THRUST BLOCK DETAILS.

RECOMMENDED MATERIALS - STAINLESS STEEL TAPPING SLEEVE WITH FLG  
 MANUFACTURER TO BE AWWA APPROVED.

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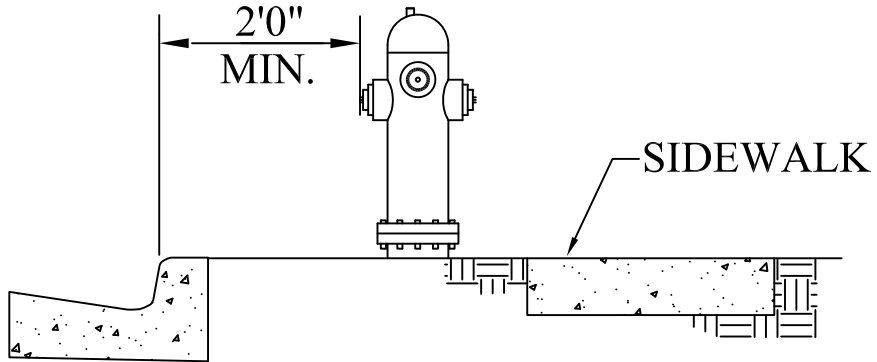
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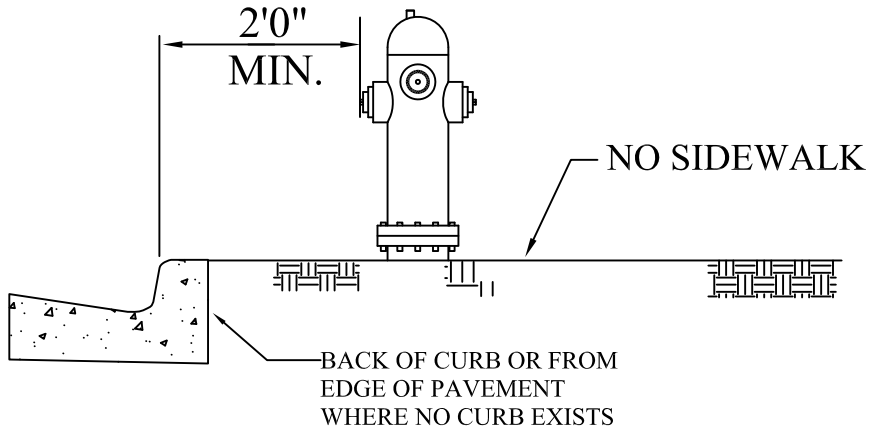
**MECHANICAL JOINT  
 TAPPING SLEEVE**

STANDARD  
 DRAWING  
**3045**

### CASE 1



### CASE 2



**NOTES:**

1. ABOVE GROUND UTILITIES SHALL BE LOCATED ON PROPERTY LINES SEPERATING LOTS.

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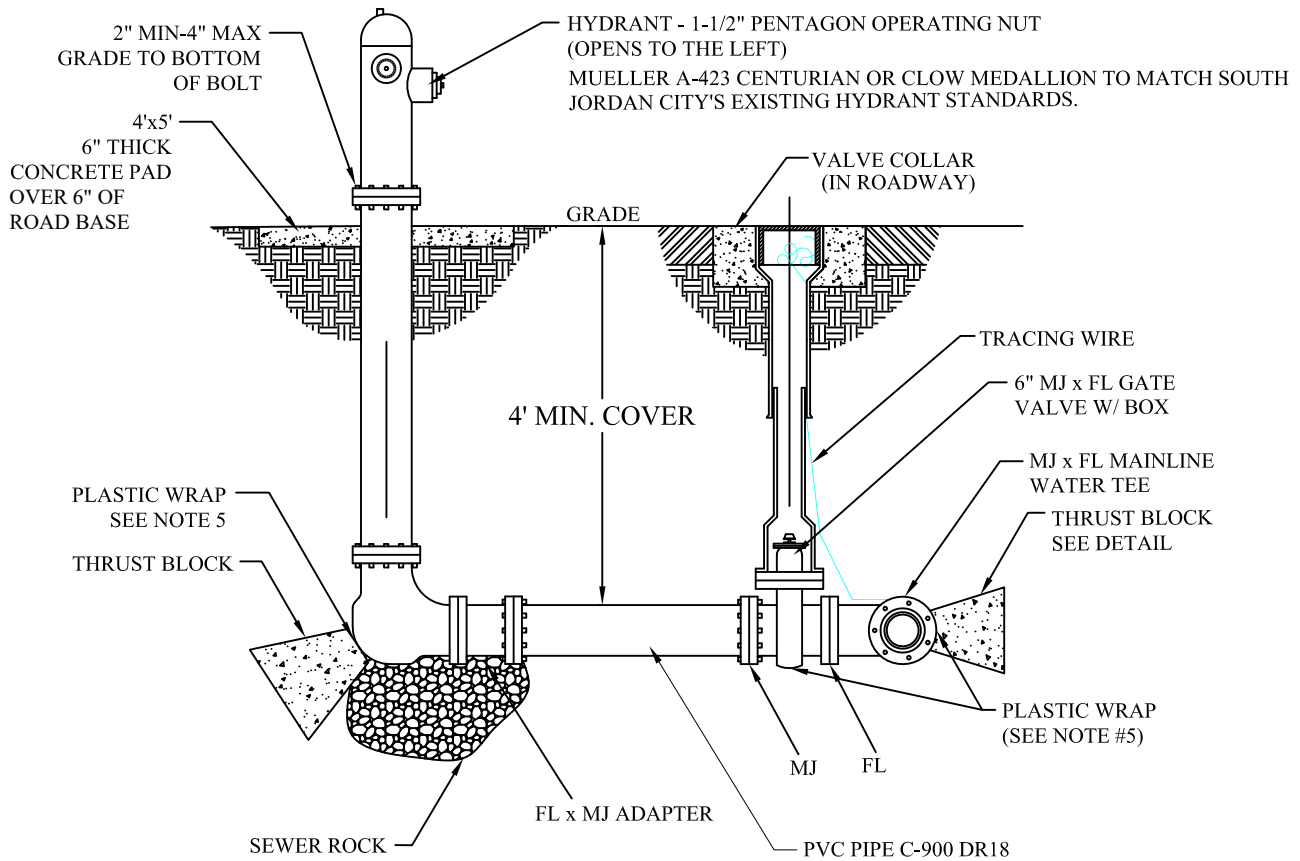


**SOUTH JORDAN CITY**

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**LOCATION OF  
FIRE HYDRANTS**

STANDARD  
DRAWING  
**3050**



**NOTES:**

1. INSPECTION: PRIOR TO BACKFILLING, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. HYDRANT: DRY BARREL PER AWWA C502.
  - A. PROVIDE AT LEAST 1 CUBIC YARD OF SEWER ROCK AROUND DRAIN HOLE AT BASE OF HYDRANT. PLACE TAR PAPER OR PLASTIC OVER SEWER ROCK TO PREVENT SILTING.
  - B. PAINT FIRE HYDRANT RED PER SOUTH JORDAN CITY'S REQUIREMENTS.
  - C. APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 mil THICK POLYETHYLENE SHEET AND TAPE WRAP.
  - D. ALL HYDRANTS NOT IN SERVICE SHALL BE BAGGED UNTIL WATER IS AVAILABLE
4. THRUST BLOCKS: REQUIRED FOR ALL CONNECTIONS INCLUDING FLANGED OR WELDED PIPE SYSTEMS.
5. PLASTIC WRAP: PRIOR TO POURING CONCRETE, APPLY POLY-FM GREASE AND WRAP PIPE SYSTEM AND FITTINGS WITH 8 mil THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM AND FITTINGS.
6. PLACE FOUR (4) PROTECTIVE BOLLARDS AROUND HYDRANT IF DIRECTED BY SOUTH JORDAN CITY.

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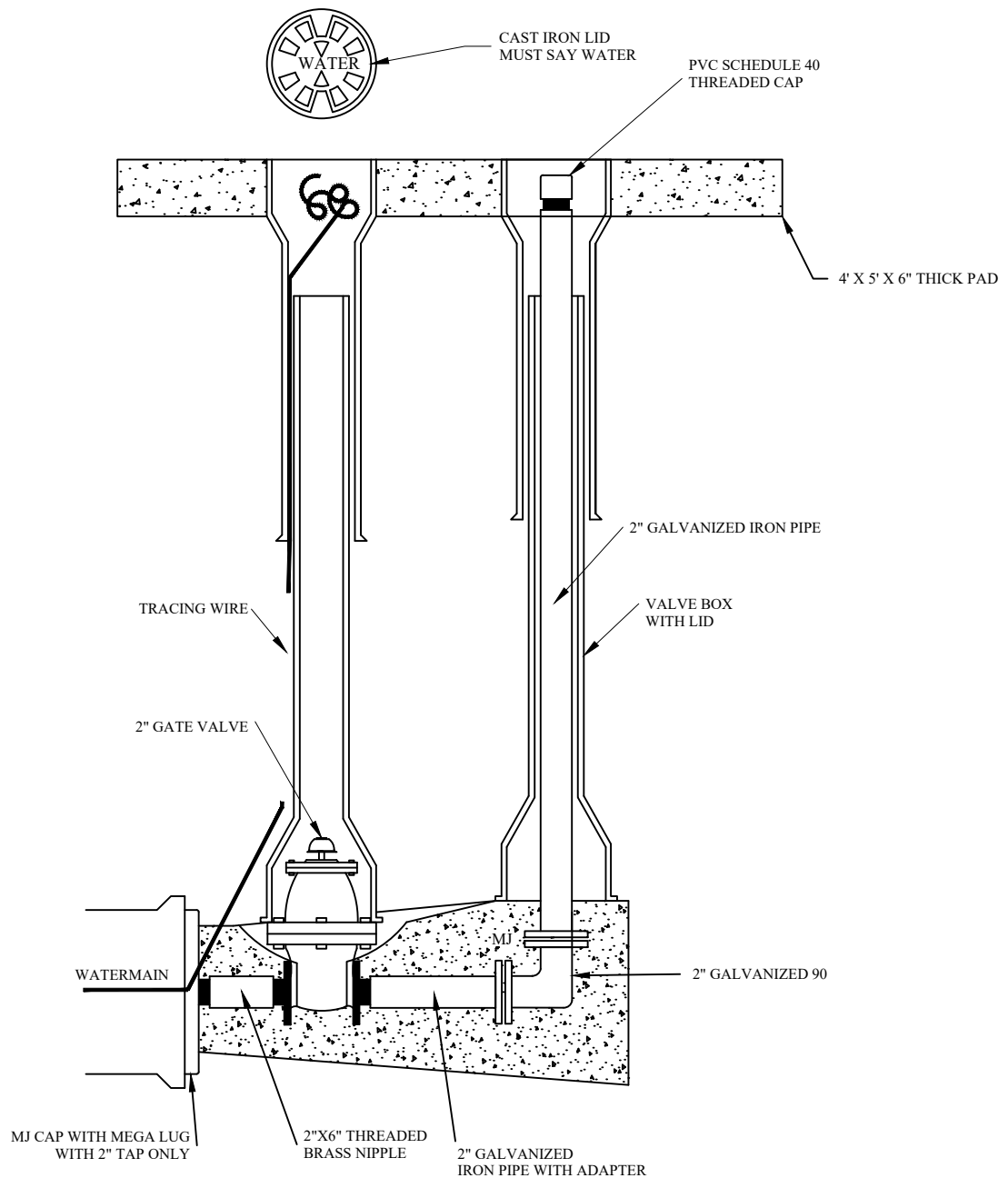
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**FIRE HYDRANT INSTALLATION  
WITH MAIN IN THE ROADWAY**

STANDARD  
DRAWING  
**3055**





**NOTES:**

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY CITY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL. THRUST BLOCK MUST MEET APWA.
4. TAPE: APPLY TAPE WRAP TO THE EXTERIOR OF ALL GALVANIZED PIPE PER AWWA C209
5. SPECIAL DESIGN: WATERMAINS 12" AND LARGER WILL REQUIRE SPECIAL WASHOUT ASSEMBLY DESIGN.
6. DRAINAGE: AFTER INSTALLATION OF WASHOUT VALVE ASSEMBLY, VERIFY THE WASHOUT VALVE RISER DRAINS TO GRAVEL.
7. WRAP ALL FOOTINGS PRIOR TO PLACEMENT OF THRUST BLOCKING

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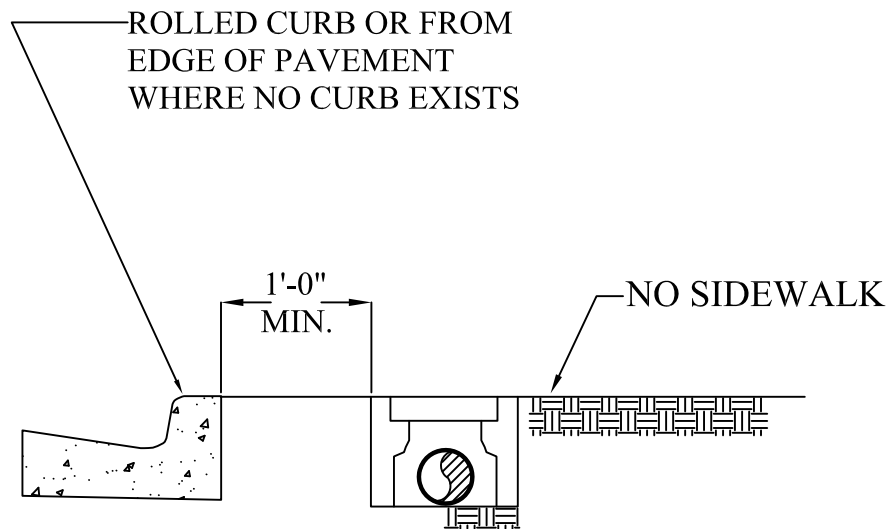
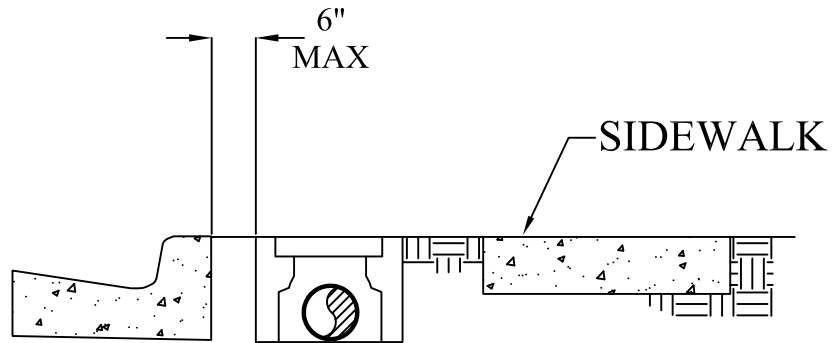
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DRAWN:  
  
DATE

**WASHOUT VALVE ASSEMBLY**

STANDARD  
DRAWING  
**3060**



NOTES:

1. METER BOXES SHALL BE LOCATED WITHIN 6" FROM THE BACK OF CURB. LONGITUDINAL AXIS PERPENDICULAR TO AND DIRECTLY BEHIND CURB.
2. METER BOXES SHALL NOT BE LOCATED IN DRIVEWAYS
3. COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLIES SHALL BE LOCATED BEHIND THE SIDEWALK BUT WITHIN THE PUBLIC SERVICES EASEMENTS (PSE)
4. NO CONCRETE SHALL BE INSTALLED WITHIN 2' OF THE WATER METER.

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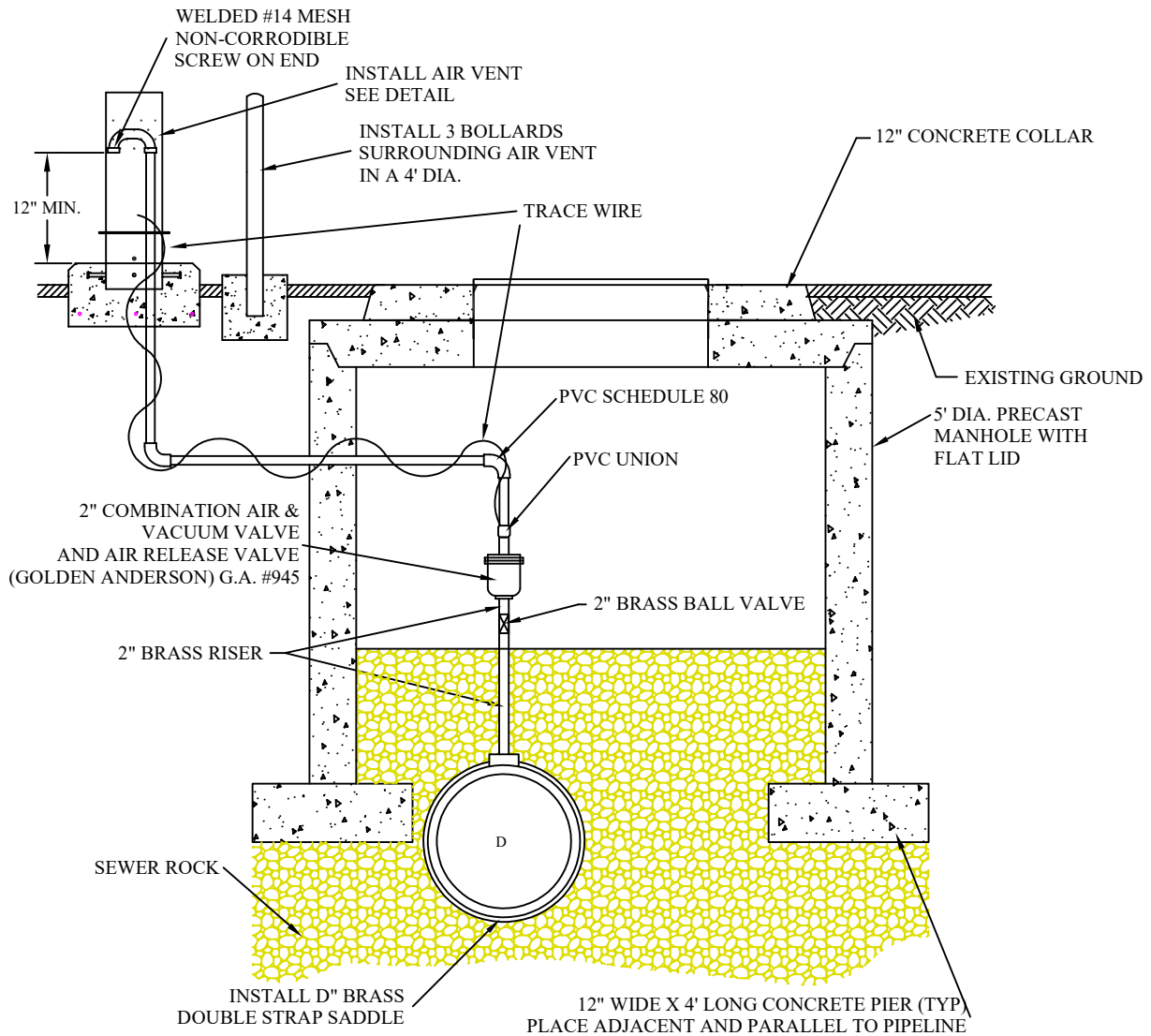


SOUTH JORDAN CITY

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WATER METER LOCATION

STANDARD  
DRAWING  
**3065**



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE ASSEMBLY, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 4,000. APPLY A SEALING/CURING COMPOUND PER SPECIFICATIONS.
4. SMALL FITTINGS: PROVIDE BRASS FITTINGS AND NIPPLES IF NOT SPECIFIED OTHERWISE. DO NOT USE GALVANIZED MATERIALS BELOW DIELECTRIC UNION.

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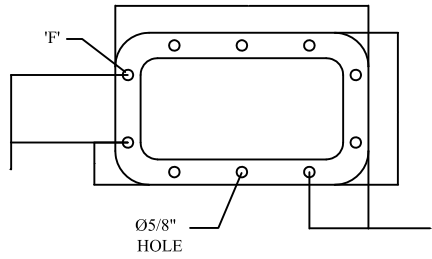


**SOUTH JORDAN CITY**

**COMBINATION AIR VACUUM  
VALVE ASSEMBLY**

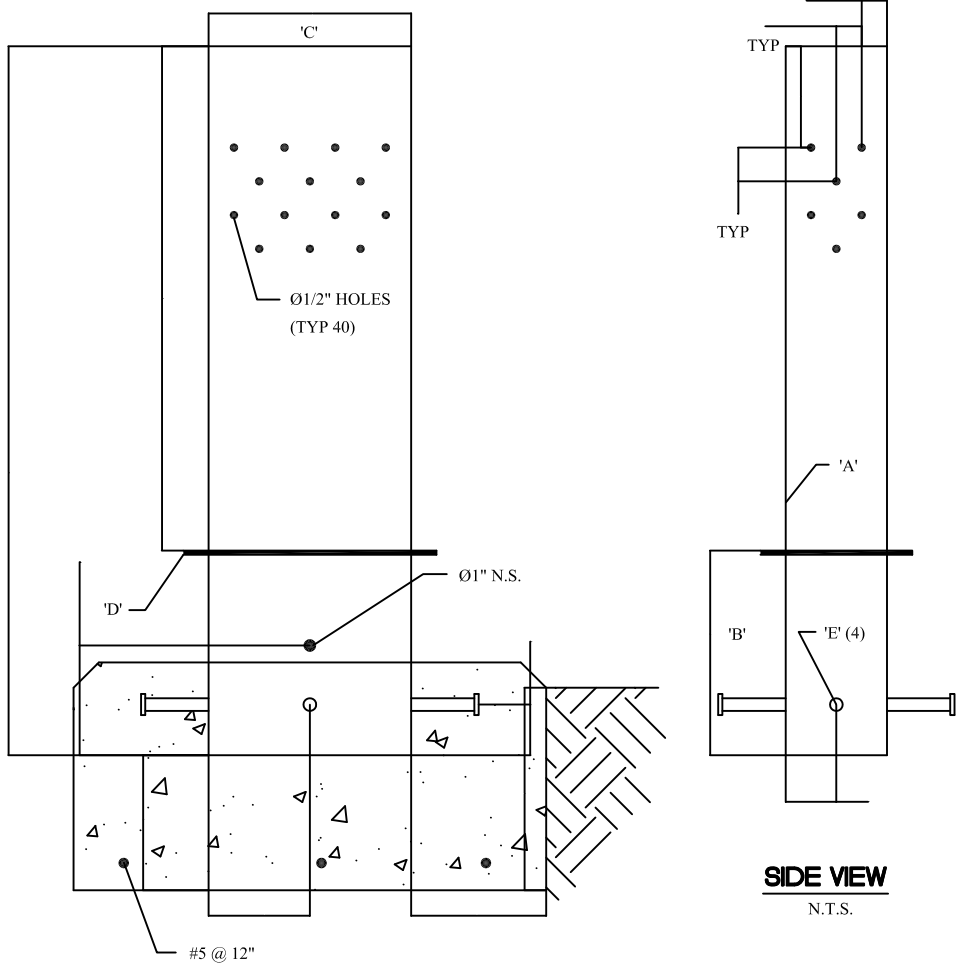
STANDARD  
DRAWING  
**3070**

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PARTS LIST		
ITEM	QTY	DESCRIPTION
A	1	TS 12" x 6" x 1/4" x 2'-6"
B	1	TS 12" x 6" x 1/4" x 12"
C	1	1/4" PL - 6" x 1'-0"
D	2	1/4" PL - 9" x 1'-3"
E	4	Ø3/4" x 4" H.S.A.
F	10	Ø1/2" x 3" BREAKAWAY BOLTS

**FLANGE DETAIL**  
ITEMS REMOVED FOR CLARITY, N.T.S.



**SIDE VIEW**  
N.T.S.

NOTES:

1. OPEN TO AIR-PLACE A NO. 14 MESH NON-CORRODIBLE SCREEN OVER THE OPEN END OF P.V.C. PIPE. ATTACH W/S.S. HOSE CLAMP.
2. HOT DIPPED GALVANIZED STEEL STAND PIPE FOR AIR VENT.
3. 1 1/2" MIN. CHAMFER ALL AROUND CONCRETE BASE.

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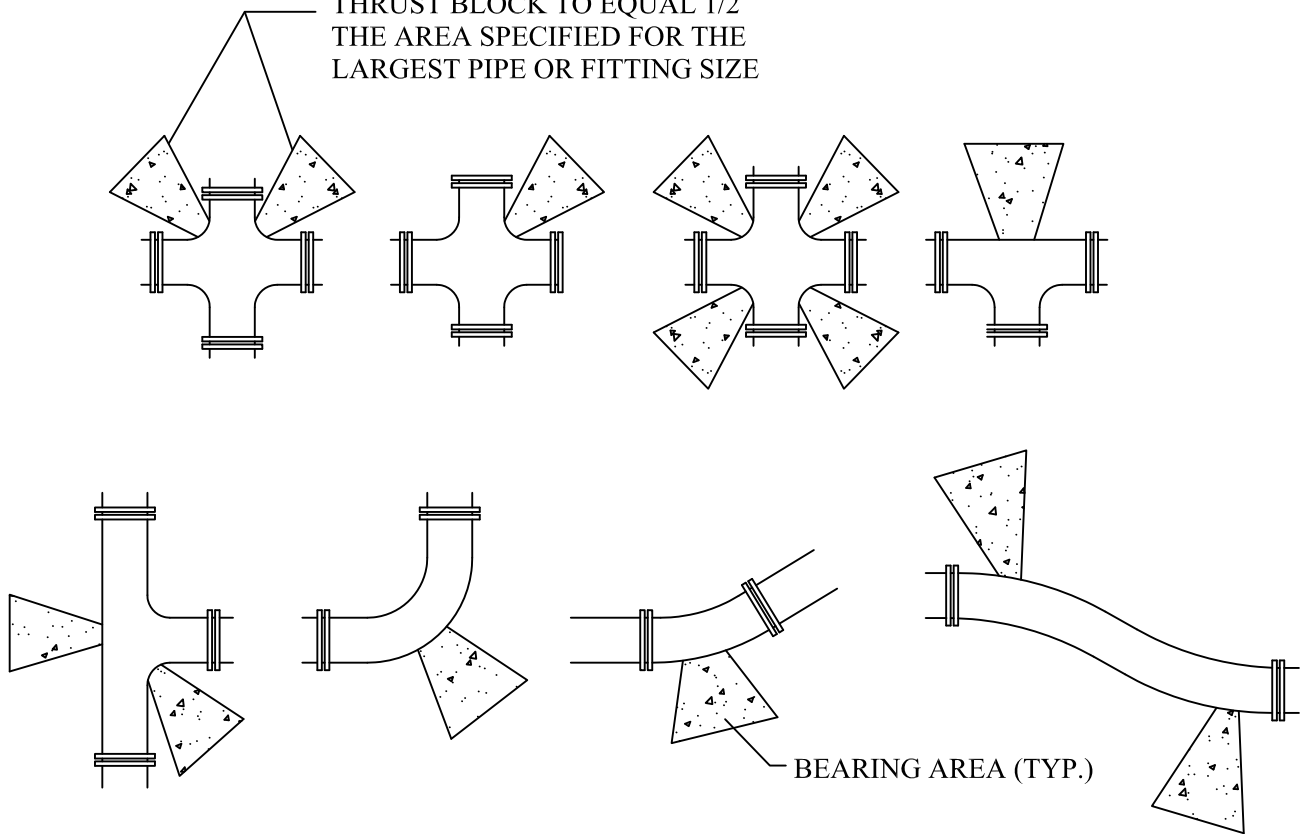
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**AIR VENT DETAIL**

STANDARD  
DRAWING  
**3075**

THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
6. SPECIAL CONSTRUCTION REQUIREMENTS:
  - A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
  - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
  - C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
  - D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
  - E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
  - F. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO PRESSURIZING THE WATER LINE.
7. MEGALUGS REQUIRED ON ALL FITTINGS

MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

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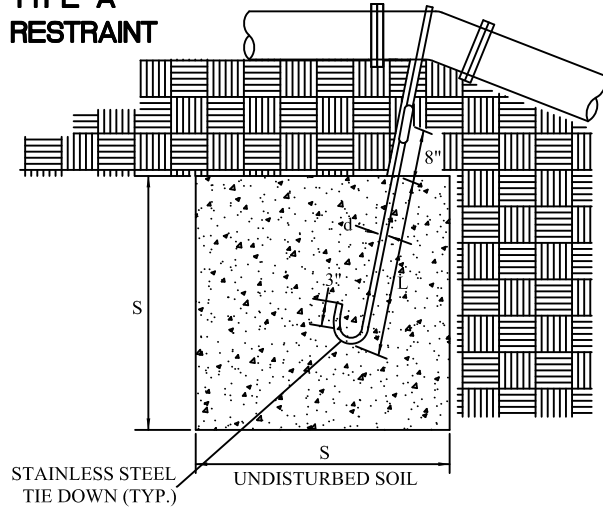
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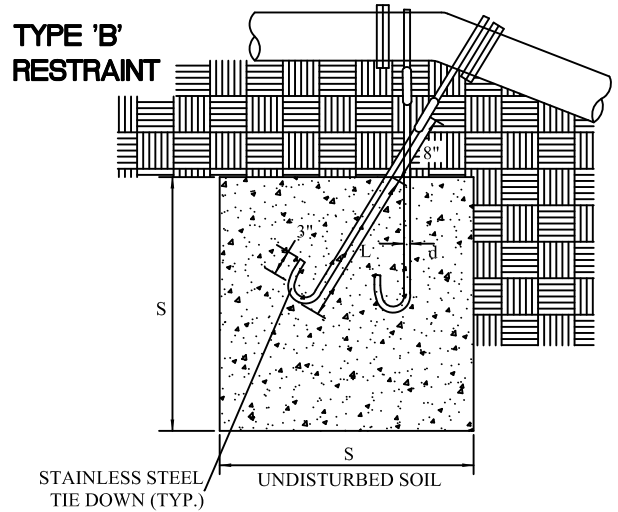
**DIRECT BEARING  
THRUST BLOCKS**

STANDARD  
DRAWING  
**3080**

**TYPE 'A' RESTRAINT**



**TYPE 'B' RESTRAINT**



**TYPE 'A' RESTRAINT**

FOR 11 1/4°-22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	3/4"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	4.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

**TYPE 'B' RESTRAINT**

FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. Y. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	
20"	45°	26.52	8.95	3/4"	4.0
				3/4"	
24"	45°	37.82	10.07	3/4"	4.0
				3/4"	
30"	45°	58.26	11.63	3/4"	4.0
				3/4"	

PREPARED BY: \_\_\_\_\_

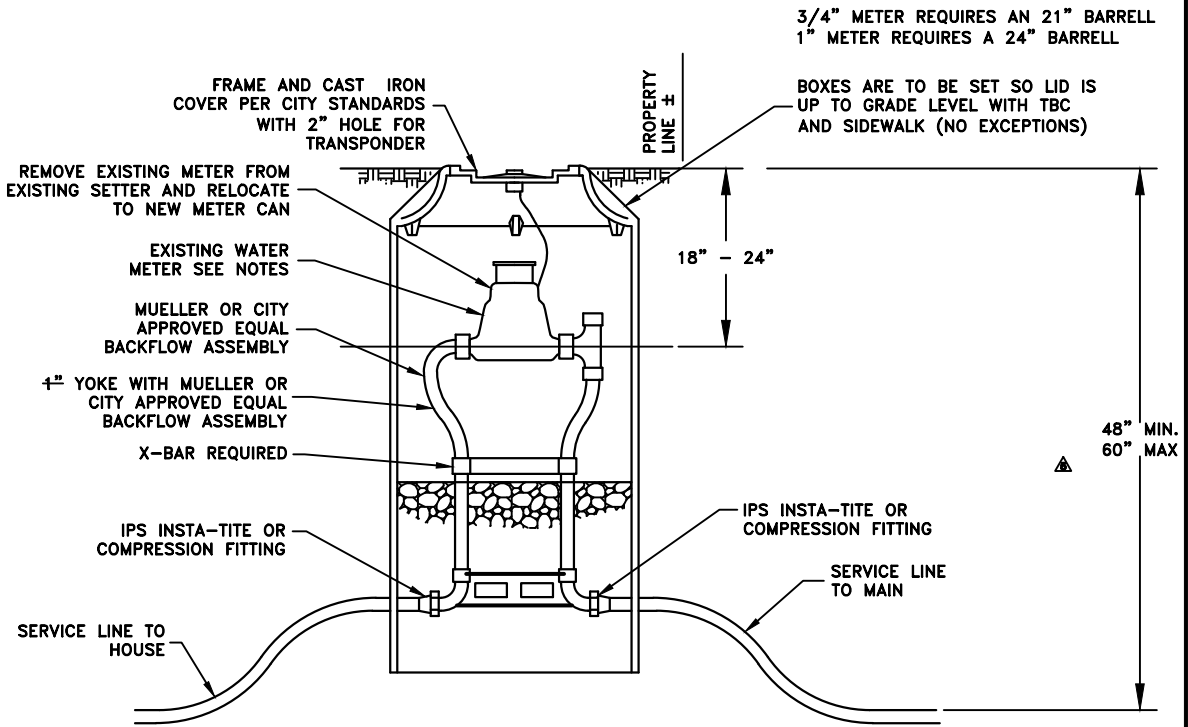


**SOUTH JORDAN CITY**

**TIE DOWN THRUST RESTRAINTS**

STANDARD DRAWING  
**3085**

			DRAWN:
			DATE:
DATE	REVISIONS	BY	



3/4" METER REQUIRES AN 21" BARRELL  
 1" METER REQUIRES A 24" BARRELL

BOXES ARE TO BE SET SO LID IS UP TO GRADE LEVEL WITH TBC AND SIDEWALK (NO EXCEPTIONS)

18" - 24"

48" MIN.  
 60" MAX

5/8 x 3/4" SETTER FORD VBHC72-21WR-MM-33NL  
 1" SETTER FORD VBHC74-21WRT-MM-44NL  
 1" x 3/4" SETTER MUELLER B2434R-6AN

**METER SERVICE**  
 N.T.S.

COMPRESSION FITTINGS ARE EITHER:  
 FORD QUICK JOINTS OR  
 MUELLER 110 COMPRESSION

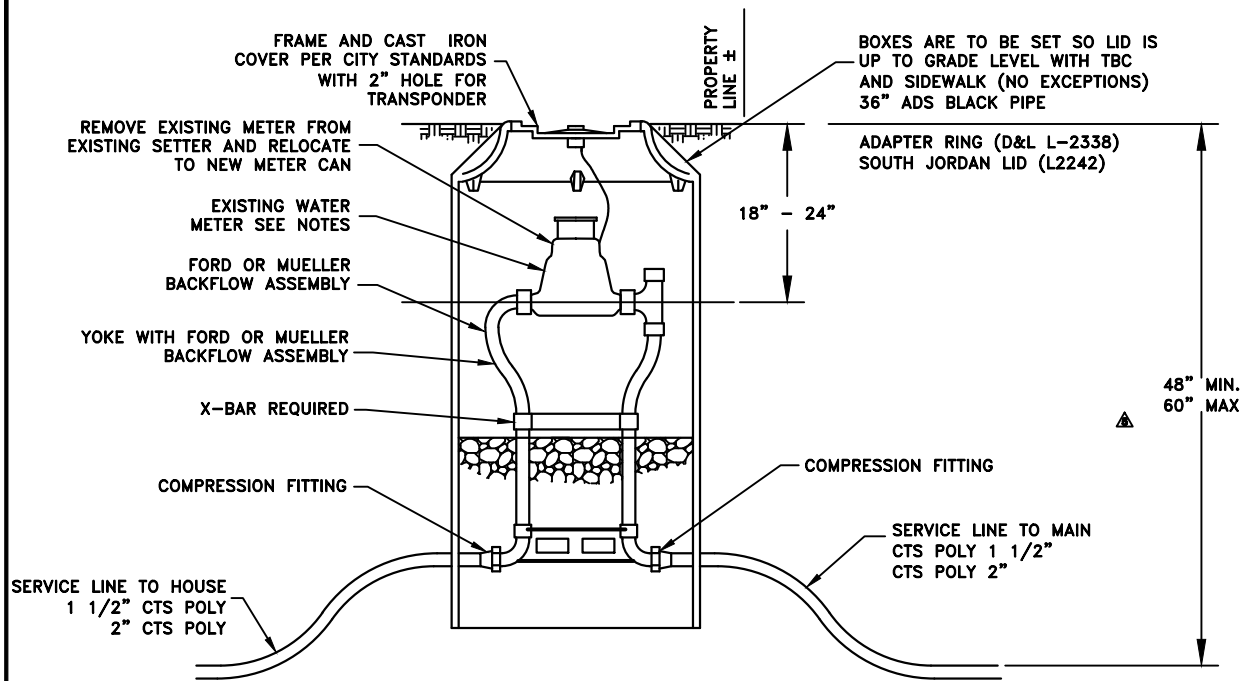
NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
3. PLACEMENT:
  - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
  - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
  - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

PREPARED BY: \_\_\_\_\_



SOUTH JORDAN CITY			
	DRAWN:		
	DATE:		3090
	BY:	3/4" AND 1" METER SERVICE	
			STANDARD DRAWING



(DUAL CHECK F/ SETTERS)  
(BALL ANGLE METER STOPS)

COMPRESSION FITTINGS ARE EITHER:  
FORD QUICK JOINTS OR  
MUELLER 110 COMPRESSION

**METER SERVICE**  
N.T.S.

SETTER LESS BY-PASS AND NON LEADED  
FORD 1 1/2" VBHH76-18-1166NL  
FORD 2" VBHH77-18-1177NL  
MUELLER 2" B2422-2N  
MUELLER 1 1/2" B2422-2N

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
3. PLACEMENT:
  - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
  - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
  - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

PREPARED BY: \_\_\_\_\_

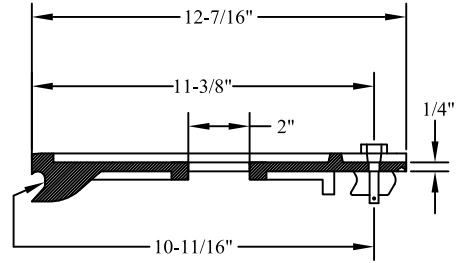
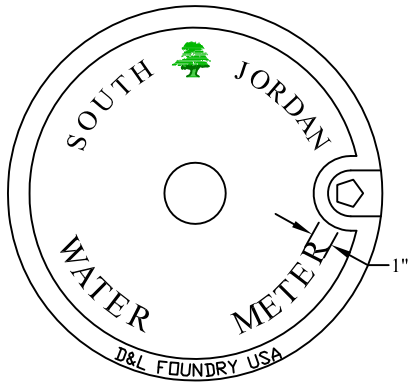


**SOUTH JORDAN CITY**

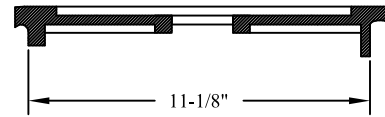
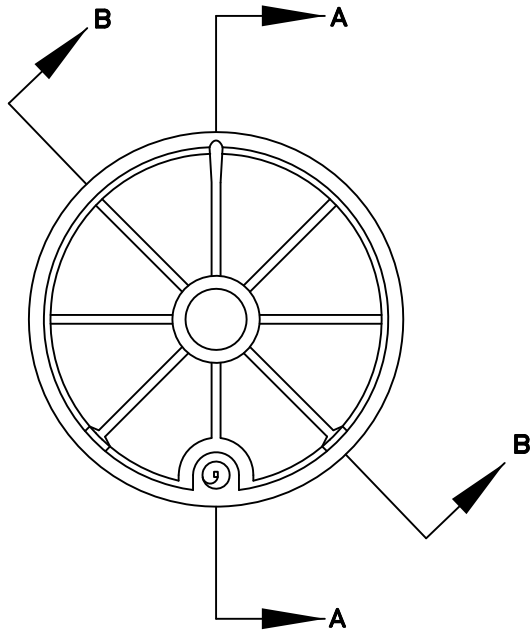
		DRAWN:
		DATE
		BY

**1 1/2" AND 2" METER SERVICE**

STANDARD  
DRAWING  
**3091**



**SECTION A-A**



**SECTION B-B**

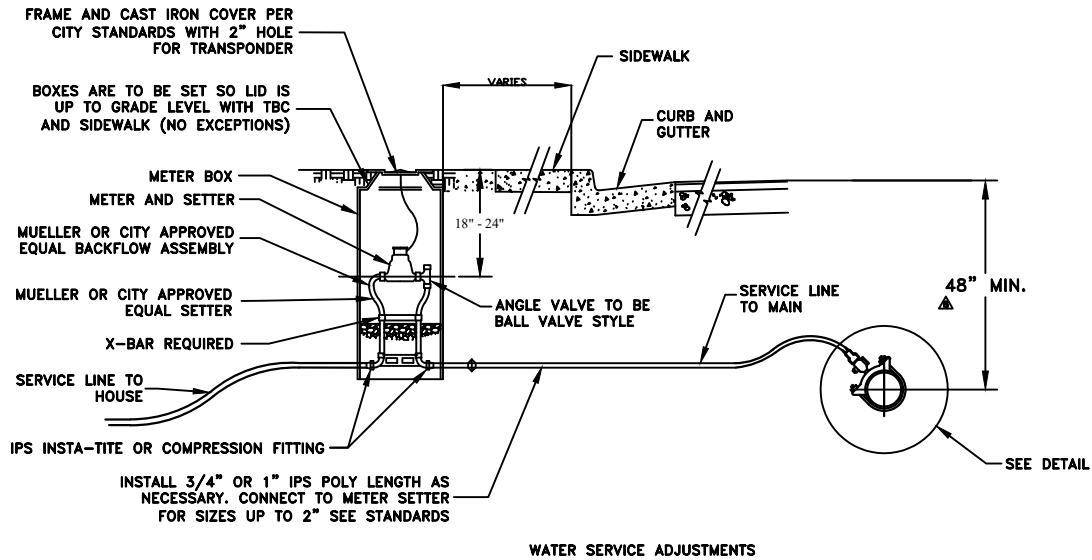
D&L FOUNDRY & SUPPLY  
 MODEL #L-2240-14  
 13 LBS.

WATER METER COVER  
 N.T.S.

PREPARED BY: \_\_\_\_\_



<b>SOUTH JORDAN CITY</b>			
		DRAWN:	<b>METER SERVICE</b>
		DATE:	
		BY:	
			STANDARD DRAWING <b>3092</b>

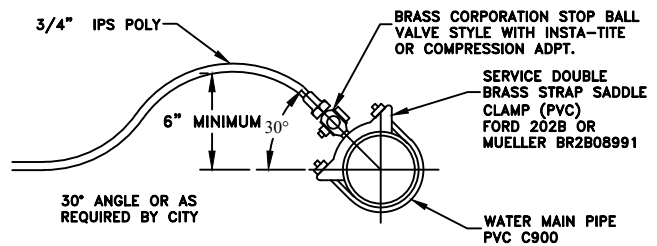


- NOTES:**
1. FITTINGS – PROVIDE BRASS FITTINGS AND NIPPLES ON ALL SERVICE LINE CONNECTIONS. DO NOT USE GALVANIZED MATERIALS
  2. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
  3. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
  4. PLACEMENT:
    - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
    - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
    - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

**TYPICAL CULINARY WATER SERVICE CONNECTION**  
N.T.S.

**NOTES:**

1. INSPECTION – PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY SOUTH JORDAN WATER DEPARTMENT
  2. BACKFILL – INSTALL AND COMPACT ALL BACKFILL MATERIAL PER CITY STANDARD
  3. TAPPING – PLACE TAPS A MINIMUM OF 36" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 36" OF END OF ANY PIPE.
- TAPE – TEFLON TAPE OR PIPE DOPE IS REQUIRED ON ALL TAPS



COMPRESSION FITTINGS ARE EITHER:  
FORD QUICK JOINTS OR  
MUELLER 110 COMPRESSION

**SERVICE TAPS**  
N.T.S.

PREPARED BY: \_\_\_\_\_

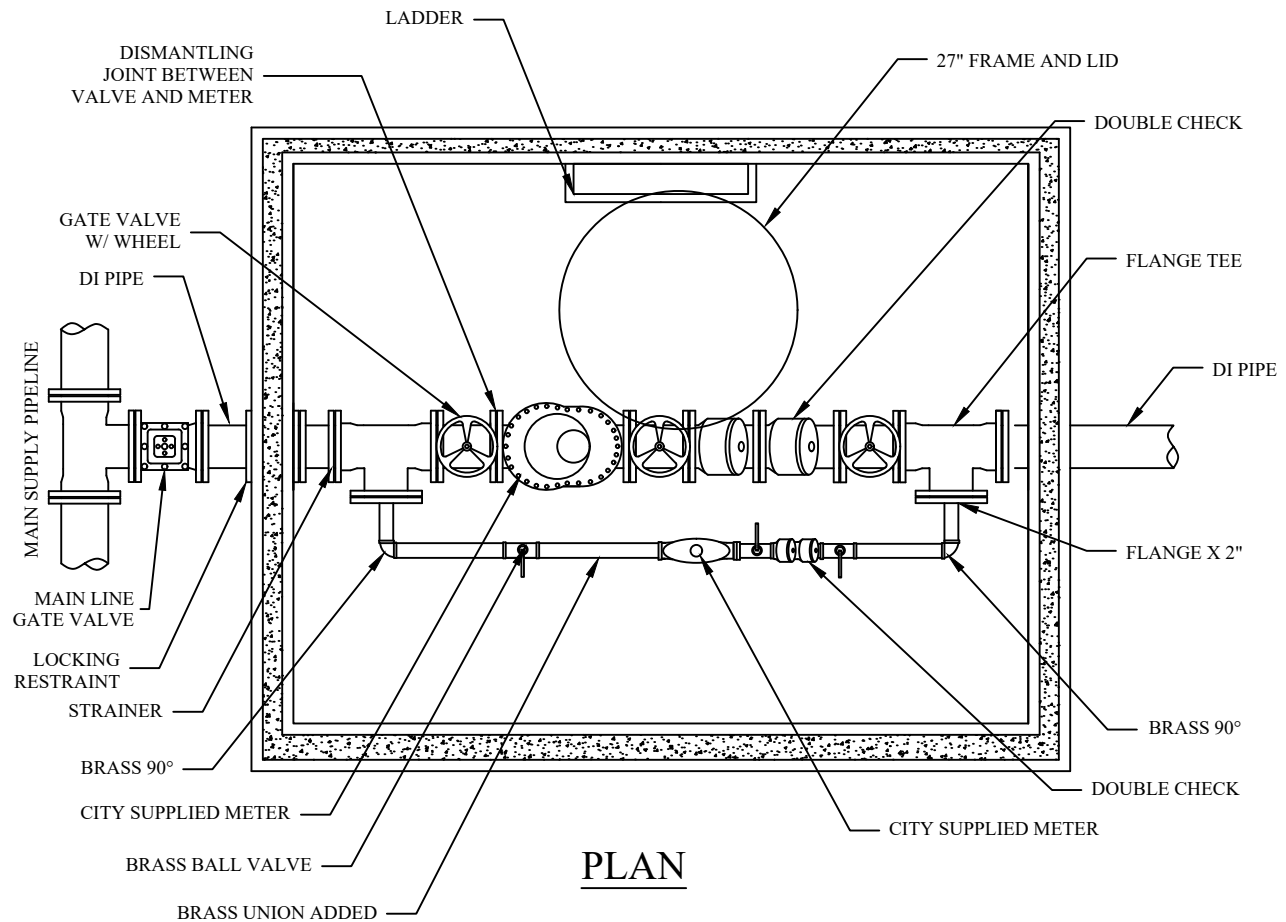


**SOUTH JORDAN CITY**

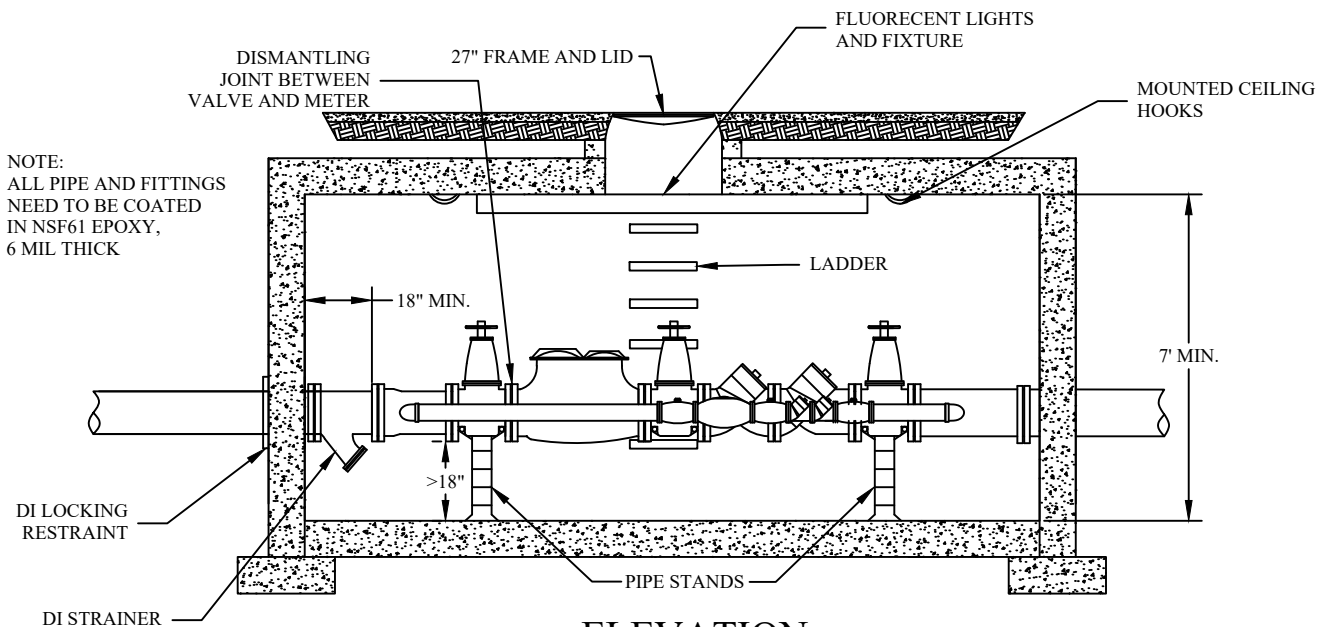
			DRAWN:
			DATE
DATE	REVISIONS	BY	

**3/4" - 2" WATER METER PLAN  
SERVICE INSTALLATION**

STANDARD  
DRAWING  
**3095**



**PLAN**



**ELEVATION**

NOTE:  
ALL PIPE AND FITTINGS  
NEED TO BE COATED  
IN NSF61 EPOXY,  
6 MIL THICK



PREPARED BY: \_\_\_\_\_

**SOUTH JORDAN CITY**

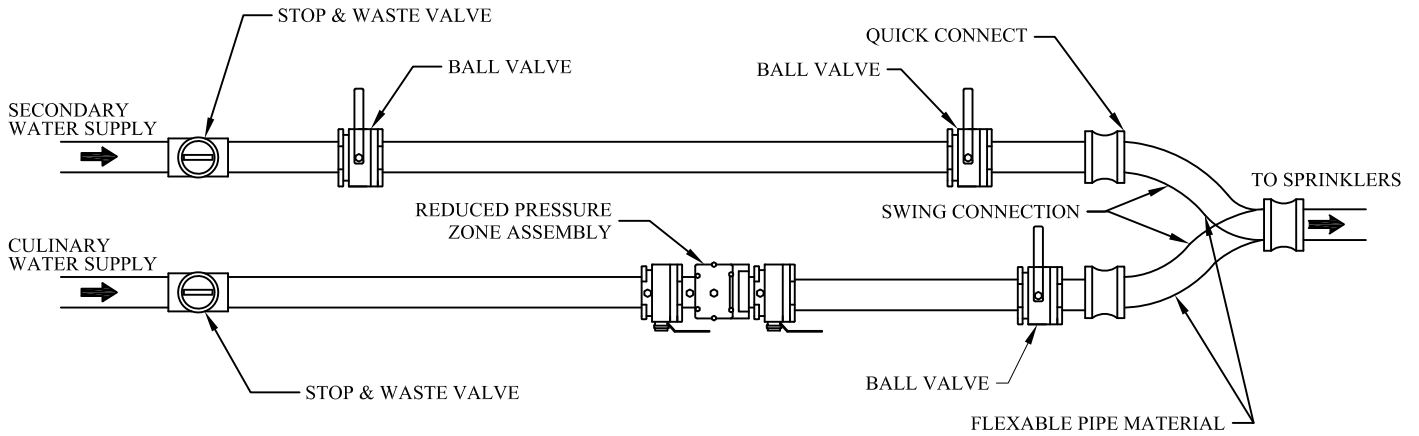
DATE	REVISIONS	BY

DRAWN:  
**AP**  
 DATE:  
**10/08**

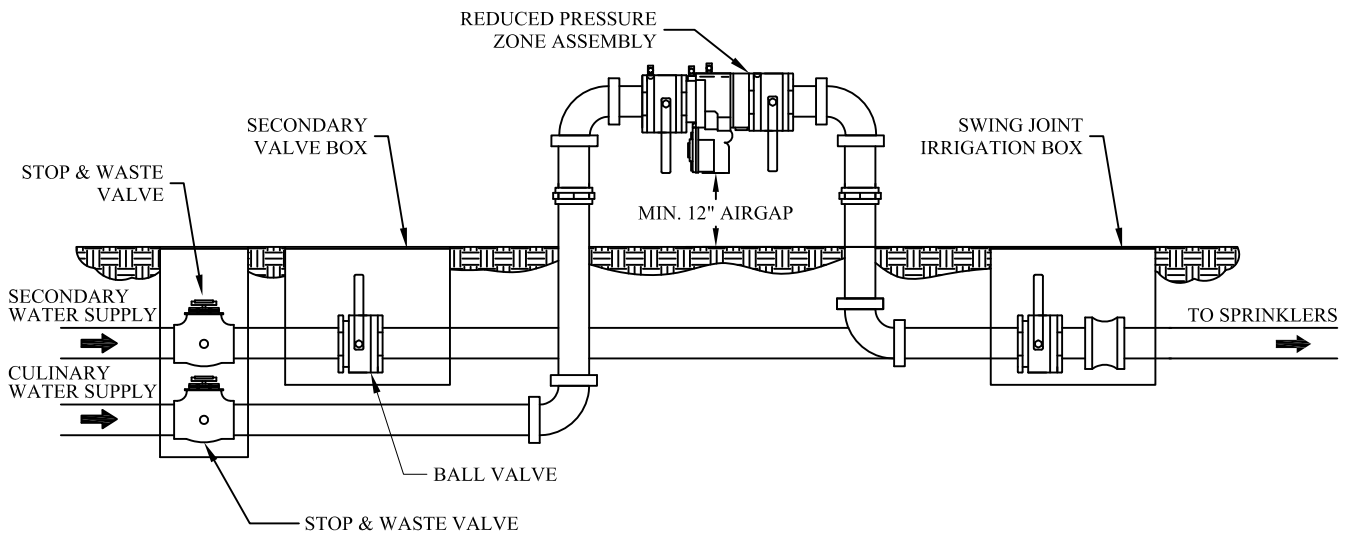
**3"- 8" WATER VAULT DETAIL**

STANDARD  
 DRAWING  
**3100**





**PLAN VIEW**  
NOT TO SCALE



**PROFILE VIEW**  
NOT TO SCALE

NOTES:

1. THE SWING CONNECTION IS INSTALLED SO THAT EITHER THE SECONDARY IRRIGATION WATER OR THE CULINARY WATER IS CONNECTED AND FEEDING THE SPRINKLER SYSTEM AT THE ONE TIME, NEVER BOTH.
2. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" FROM WALL, FENCE OR OTHER OBSTACLE.
3. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" ABOVE GRADE (NOT ALLOWED IN A PIT BELOW GRADE).
4. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN ON AN ANNUAL BASIS.



**SOUTH JORDAN CITY**

			DRAWN: <b>KS</b>
			DATE: <b>2/06</b>
DATE	REVISIONS	BY	

**BACKFLOW PREVENTION DEVICE  
IRRIGATION CONNECTION**

STANDARD  
DRAWING  
**2001**

**A-1180**

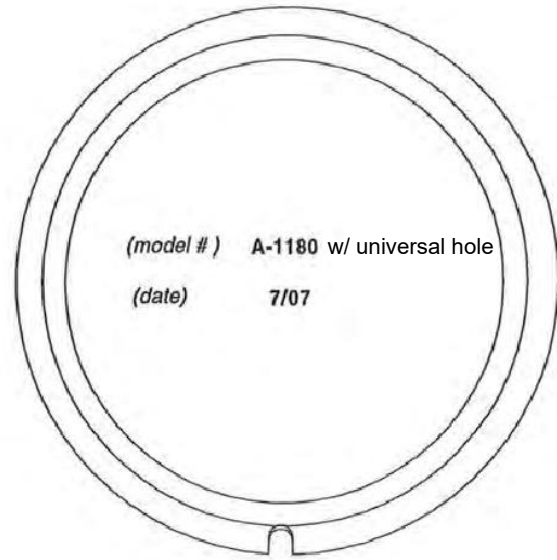
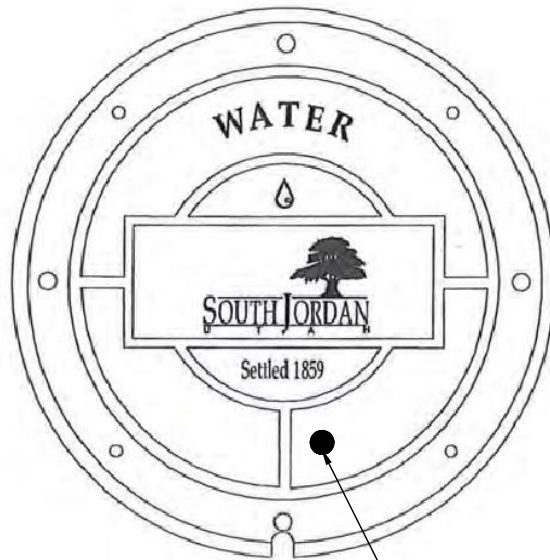
with universal hole



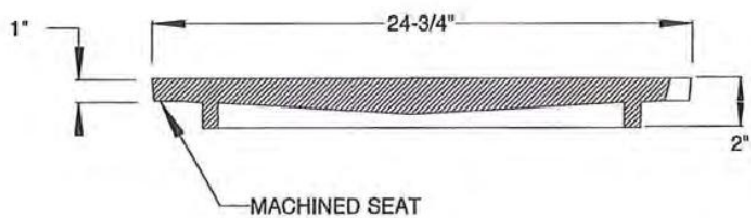
**SOUTH JORDAN**  
U T A H

# Water Manhole Cover

(Platen-bottom cover)

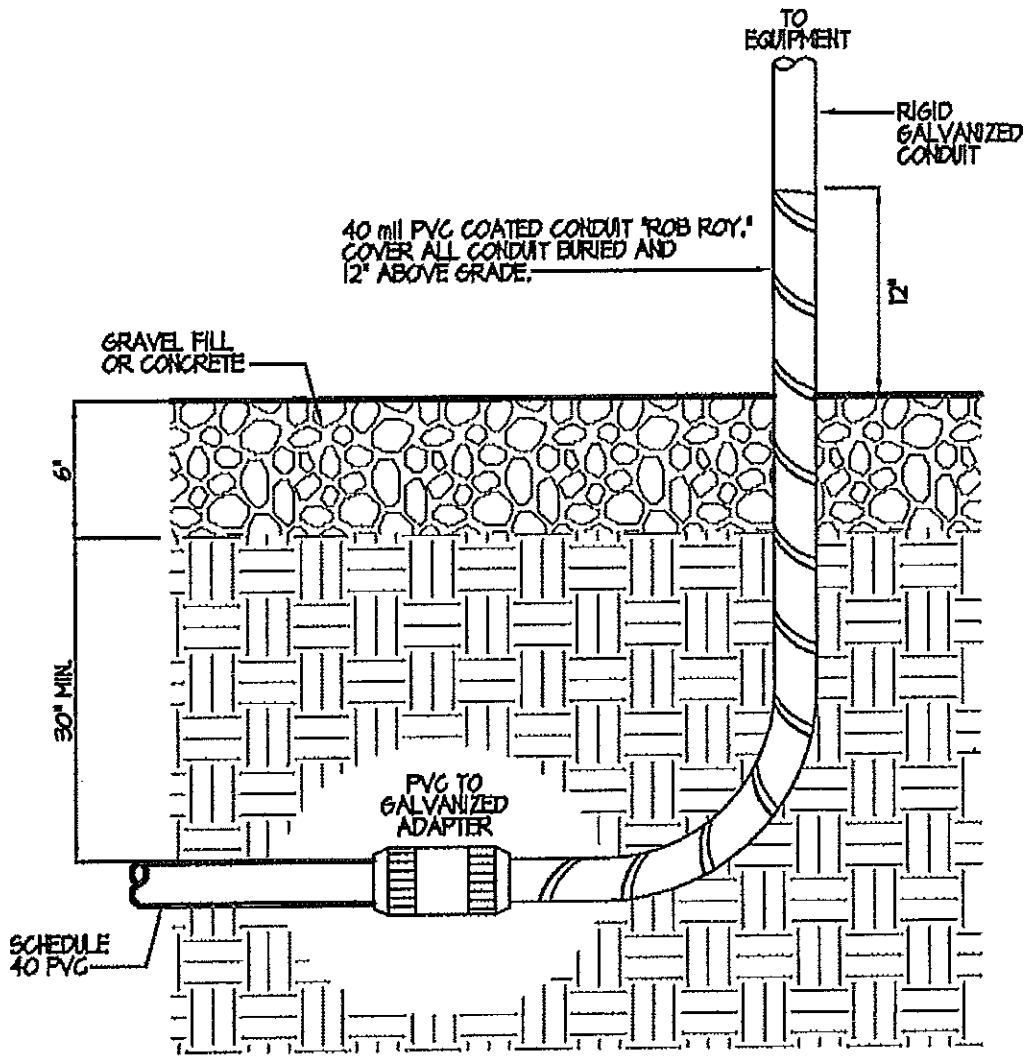


UNIVERSAL HOLE



COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

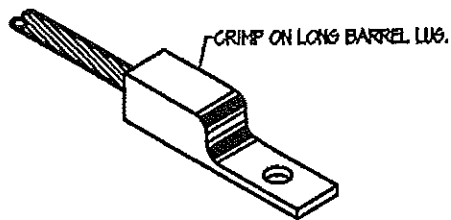
<b>CAST IRON conforms to</b> ASTM A-48-93 Class 35B Meets H-20 Wheel Loading	<b>D&amp;L model No. A-1180</b> Made in Moses Lake, WA, USA <small>with universal hole</small>	<b>D&amp;L Foundry &amp; Supply</b> CA Sales: (707) 557-4525 Fax: (707) 557-4655 UT Sales: (801) 785-5015 Fax: (801) 785-0835 WA Sales: (509) 765-7952 Fax: (509) 765-8124
Designation: <b>A-1180</b>	Date: <b>July 2007</b>	Prepared by: <i>Jesse Walker</i> D&L Foundry & Supply Inc. (not to scale)



CONDUIT TERMINATION UNDER EQUIPMENT

SCALE: NONE

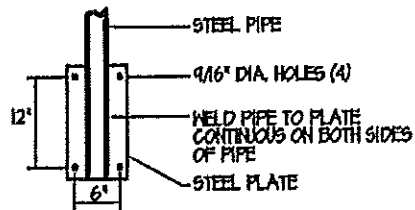
8  
E-2



BONDING LUG

SCALE: NONE

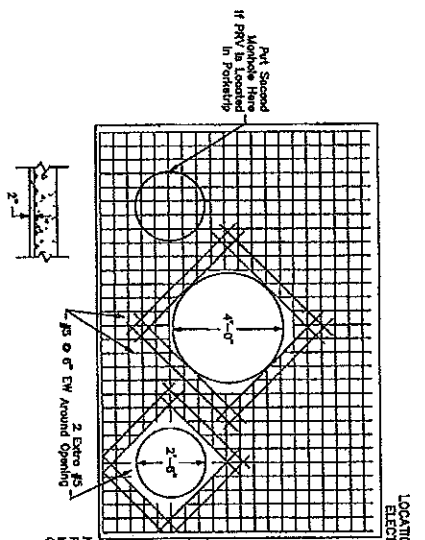
4  
E-2



MAST ANCHOR DETAIL

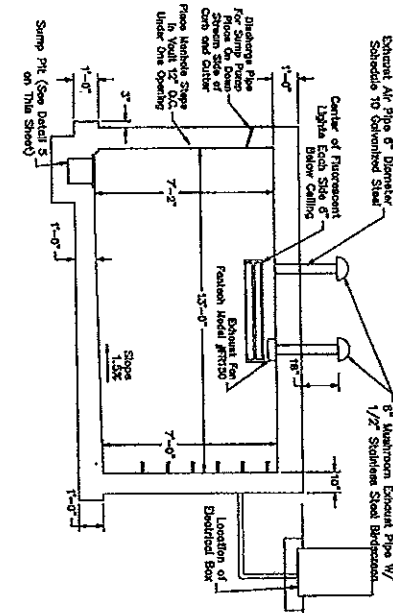
SCALE: NONE

1  
E-2

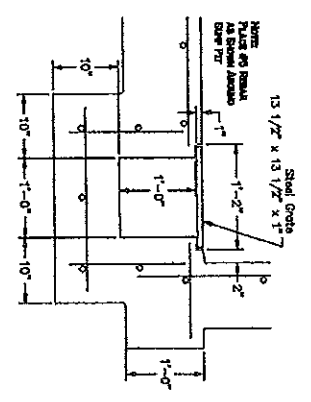


1 REBAR TOP SLAB (ROADWAY)  
Not to Scale

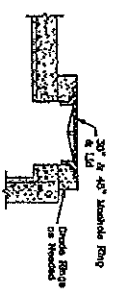
NOTE: If PRV is in Parapet Use Two 2'-6" Bars @ 6" EW Around Opposite Corners.



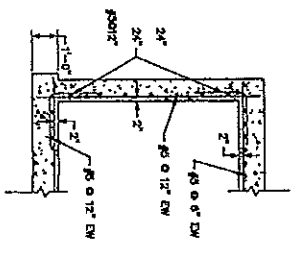
6 PRV VAULT FRONT SECTION  
Not to Scale



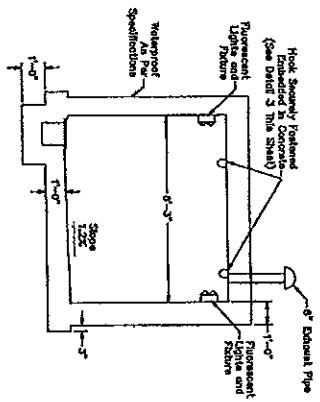
A-1 SUMP SECTION  
Not to Scale



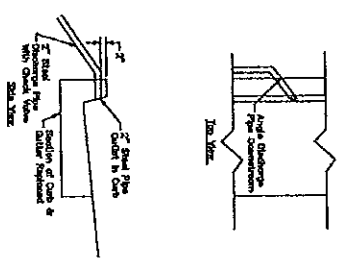
8 VAULT ACCESS  
Not to Scale



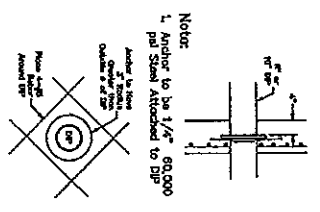
2 REBAR IN WALL  
Not to Scale



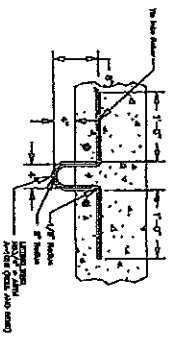
9 PRV VAULT END SECTION  
Not to Scale



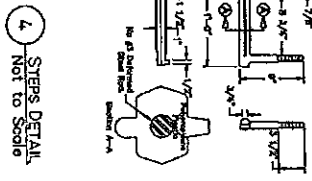
7 SUMP PUMP DISCHARGE  
To Curb & Gutter  
Not to Scale



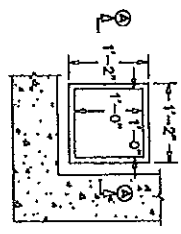
10 WALL ANCHOR DETAIL  
Not to Scale



3 HOOK  
Not to Scale

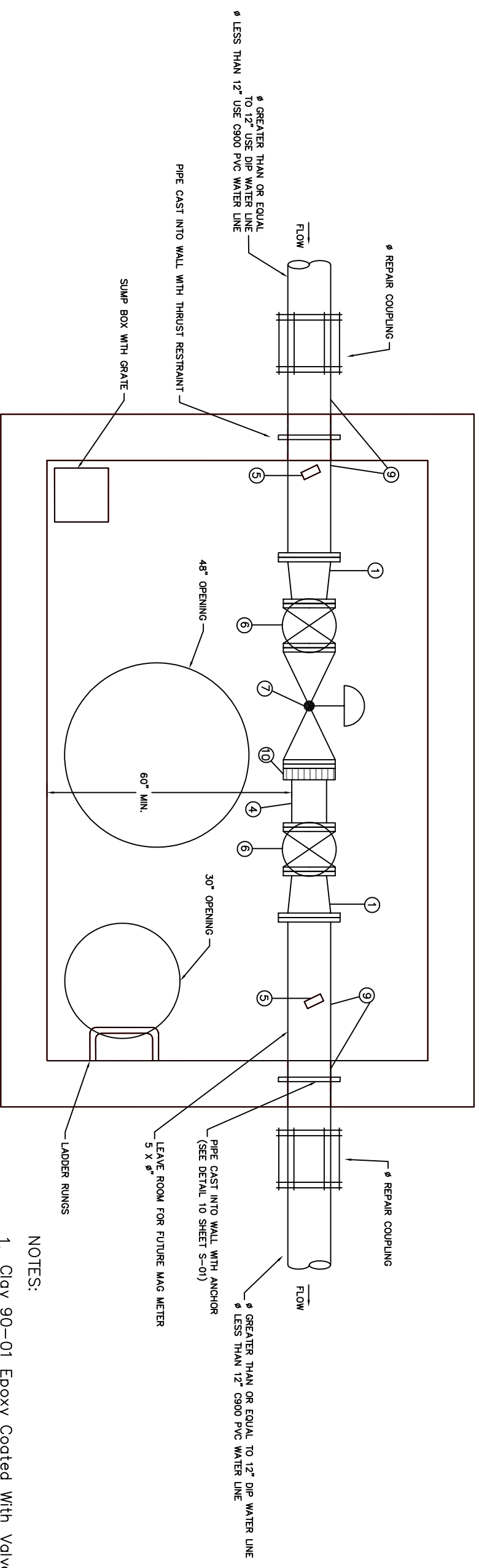


4 STEPS DETAIL  
Not to Scale



5 SUMP TOP VIEW  
Not to Scale

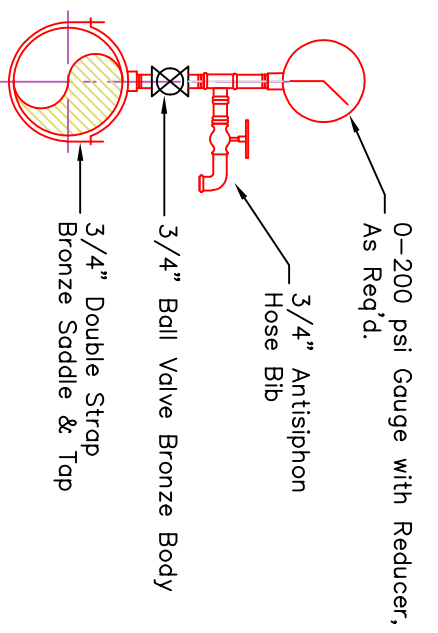
		<b>SOUTH JORDAN CITY</b> <b>PRV VAULT DETAILS</b>	
SIZE	10" OR SMALLER	DWG. NO.	
SCALE		SHEET	1/3
REV			



Top View


## PRESSURE REDUCING VALVE INSTALLATION

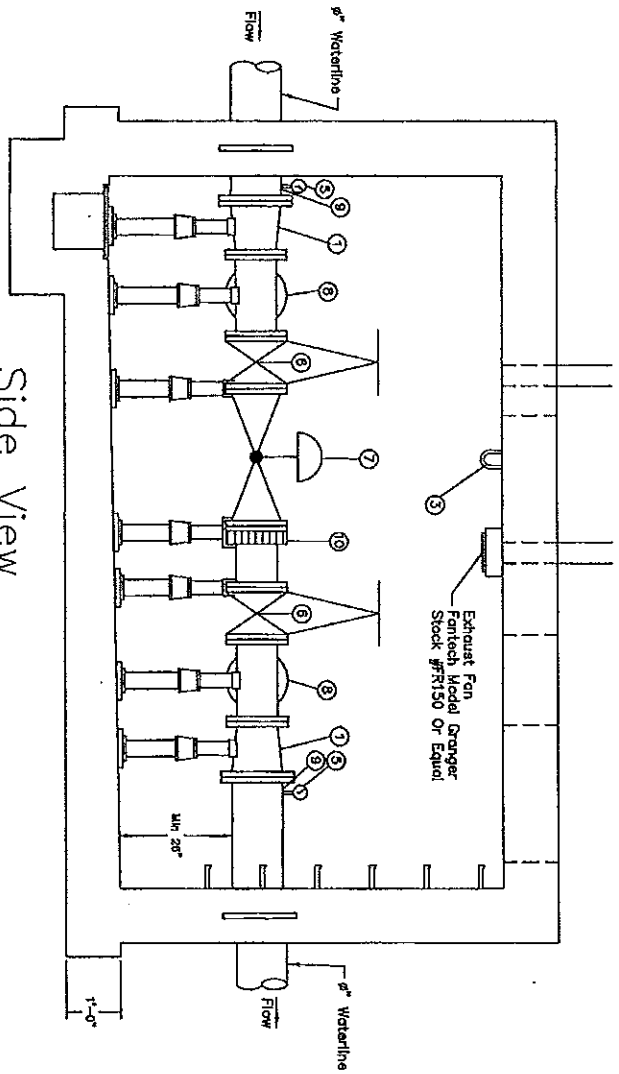
- NOTES:
1. Clay 90-01 Epoxy Coated With Valve Position Indicator X 101.
  2. Pipe or PRV Stands are Required Under All PRV's, All Tees and All Reducers. Also in Locations Shown. Stands Shall Be "Standon Pipe Supports" or an Approved Equal. (See Detail on Sheet DT-06)
  3. Pressure Gage Shall Be McDaniel or Approved Equal.
  4. All pipe and fittings need to be coated in NSF1 epoxy, 6 mil thick.



- 1  $\phi$ " x 8" DI Reducer & Stand for PRV
- 2 8" Epoxy Coated Steel Spool, fig x fig
- 3 0-200 psi Liquid Filled Pressure Gage (See Detail 11)
- 4 8" Gate Valve w/ handwheel & Stand, fig x fig
- 5 8" Pressure Reducing Valves & Stands (See Notes)
- 6  $\phi$ " DI Pipe, fig x PE
- 7 Flange Adapter Coupling

II PRESSURE GAUGE ASSEMBLY  
Not to Scale

 <p><b>SOUTH JORDAN CITY</b></p> <p>1600 Towne Center Drive / South Jordan, UT 84095 Telephone: (801) 254-3742 / Fax: (801) 253-5235</p>		<b>PRV VAULT DETAILS</b>		
		SIZE <b>10" OR SMALLER</b>	DWG NO.	SCALE
				REV

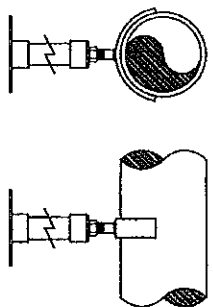


Side View  
PRESSURE REDUCING VALVE INSTALLATION

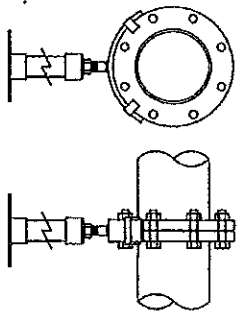
- ① 6" x 8" DI Reducer & Stands for PRV #15
- ③ Hook (2 typ.) One Over PRV (See Detail 3 on Sheet S-01)
- ④ 8" Epoxy Coated Steel Spool, fig x fig
- ⑤ 0-200 psi Liquid Filled Pressure Gage (see Detail 11)
- ⑥ 8" Gate Valve w/ handwheel & Stand, fig x fig
- ⑦ 8" Pressure Reducing Valves & Stands (See Notes)
- ⑧ 8" DI Tee & Stand, fig x fig x fig
- ⑨ 8" DI Pipe, fig x PE For PRV
- ⑩ Flange Adapter Coupling

NOTES:


- 1. Clay 90-01 Epoxy Coated With Valve Position Indicator X 101.
- 2. Place Standon Model S92 Pipe Saddle Supports or Approved Equal Under all Tees.
- 3. Place Standon Model S96 or S89 Flange Saddle Supports or Approved Equal Under all PRV's.
- 4. Place Standon Model S86 Flanged Saddle Supports or Approved Equal Under all Valves.
- 5. Pressure Gage Shall Be McDaniel or Approved Equal.
- 6. See Sheet S-01 for Location of Exhaust Fan and Lights.

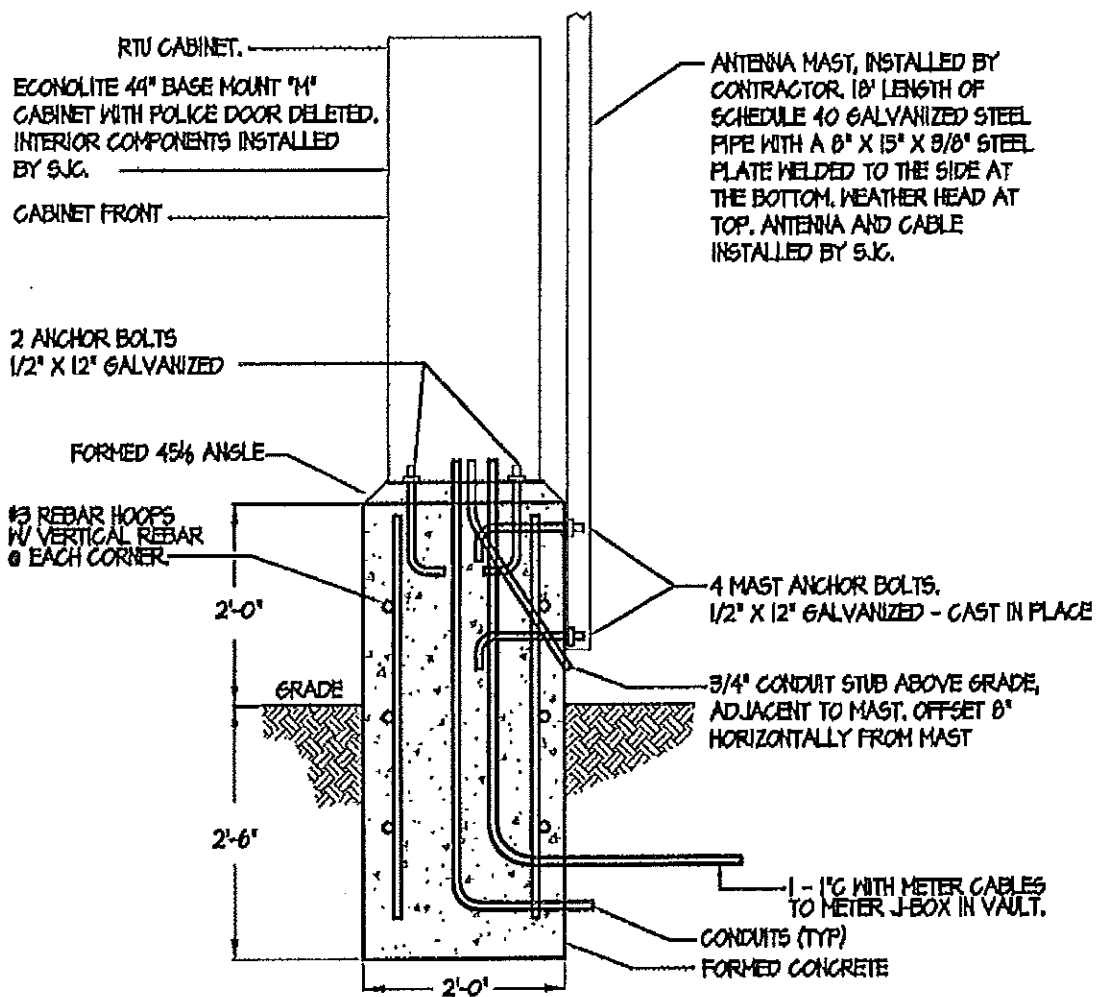


12 STANDON MODEL S92  
PIPE SUPPORT DETAIL  
Not to Scale



13 STANDON MODEL S96  
FLANGE SADDLE SUPPORT DETAIL  
Not to Scale

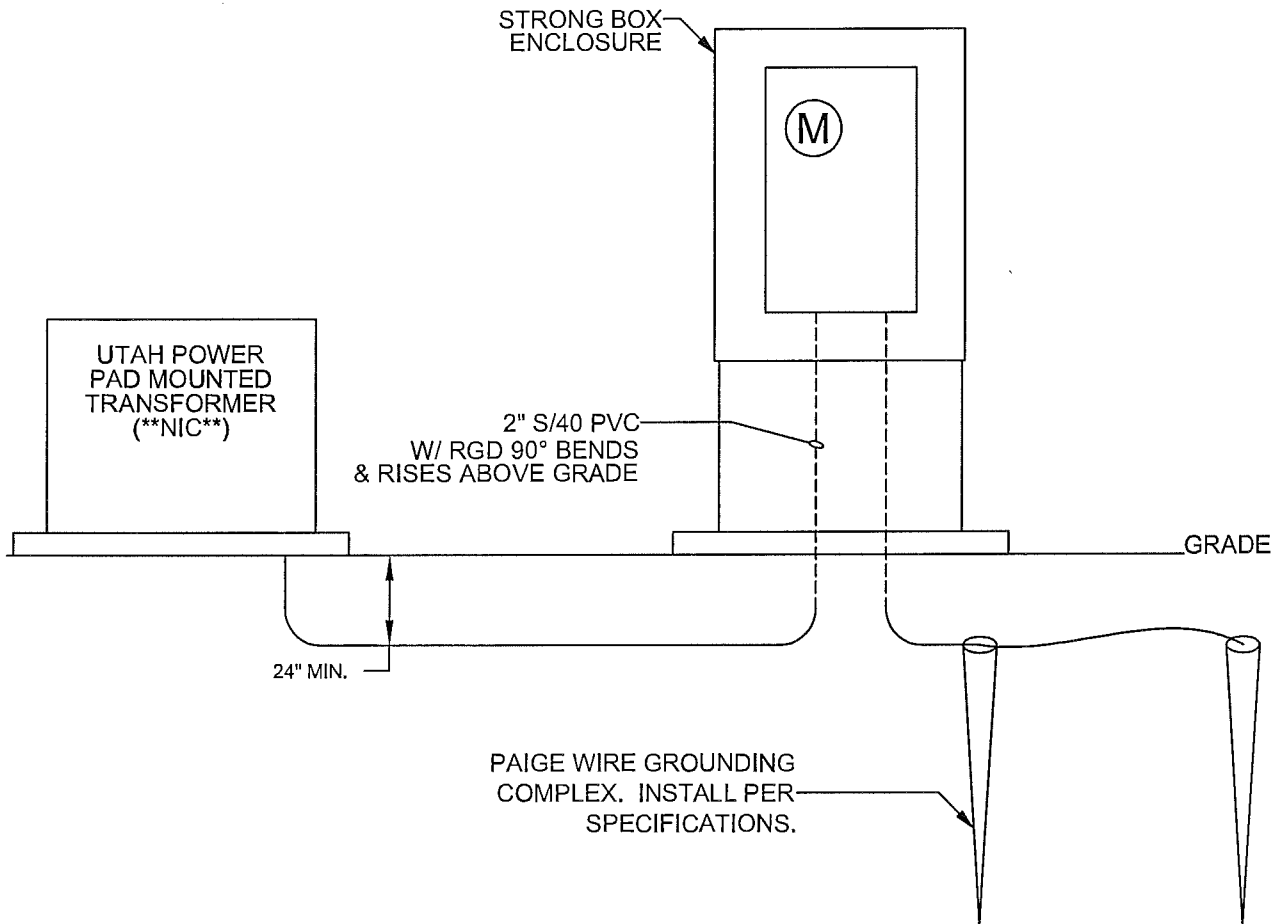
 <b>SOUTH JORDAN</b> <small>City of South Jordan, Utah</small>		<b>SOUTH JORDAN CITY</b> <b>PRV VAULT DETAILS</b>	
SIZE	DWG. NO.	REV.	
0" OR SMALLER			
SCALE		SHEET	3/3



### SJC RTU PEDESTAL ELEVATION

SCALE: NONE

# **LANDSCAPE AND IRRIGATION**



IRRIGATION DETAIL IRR-01  
 LINE DRAWING TRANSFORMER  
 ENCLOSURE

version: 01, revision: 00, date: 8/2006

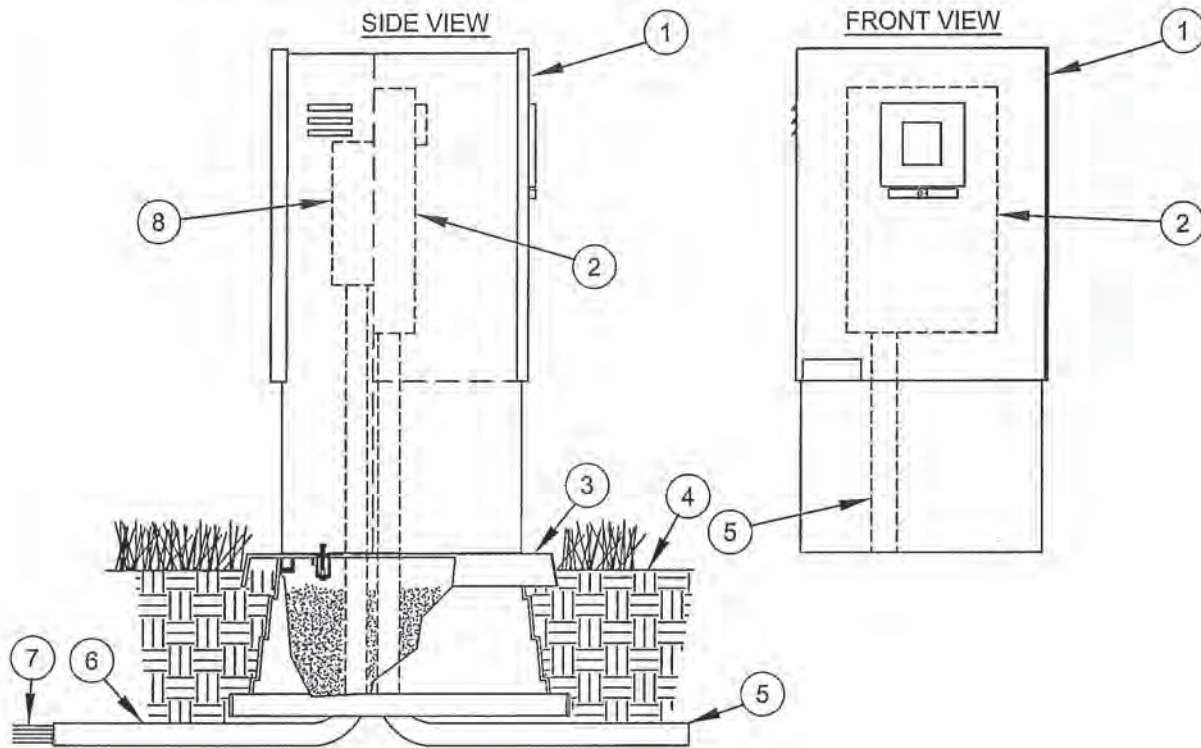


DALE WINCHESTER &  
 ASSOCIATES  
 2215 East Pincrest Lane  
 Sandy UT 84092  
 801 571-6060

SOUTH JORDAN CITY  
 PARKS DEPARTMENT  
 1600 West Towne Center Drive  
 South Jordan, Utah 84095  
 (801) 254-3742



SOUTH JORDAN



**LEGEND**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. STRONG BOX BRAND METERED CONTROLLER ENCLOSURE, MODEL SB-24DSS/240V</li> <li>2. METER/PANEL COMBINATION SQUARE D MODEL SC1624M</li> <li>3. STRONG BOX BRAND QUICK PAD, MODEL QP-24</li> <li>4. FINISH GRADE.</li> </ul> | <ul style="list-style-type: none"> <li>5. CONDUIT FOR LINE FEED INTO METER/PANEL COMBO. EXTEND INTO UP&amp;L TRANSFORMER</li> <li>6. PVC LONG SWEEP ELL - USE ONE SWEEP ELL PER CONTROLLER.</li> <li>7. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES.</li> <li>8. AUTOMATIC CONTROLLER.</li> </ul> |
|--|---|

**IRRIGATION DETAIL IRR-02  
STRONG BOX COMBO METER  
ENCLOSURE**

version: 01, revision: 00, date: 8/2006

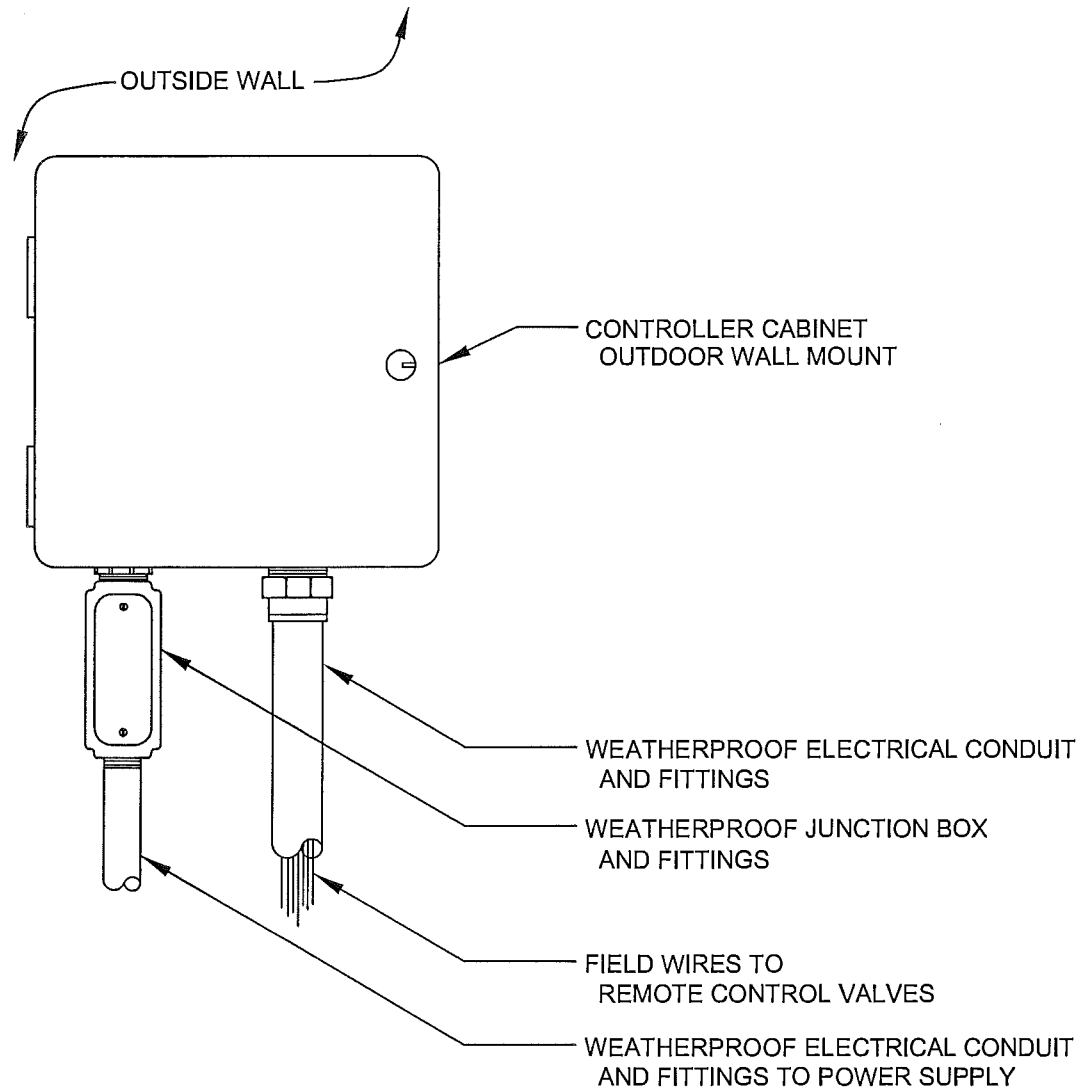


DALE WINCHESTER &  
ASSOCIATES  
2215 East Pincrest Lane  
Sandy UT 84092  
801 571-6060

SOUTH JORDAN CITY  
PARKS DEPARTMENT  
1600 West Towne Center Drive  
South Jordan, Utah 84095  
(801) 254-3742



SOUTH JORDAN



**\*\*NOTE\*\*** PVC SHALL NOT BE USED IN WIRING CONNECTIONS OR CONDUIT

## IRRIGATION DETAIL IRR-03 LINE DRAWING TRANSFORMER ENCLOSURE

version: 01, revision: 00, date: 8/2006

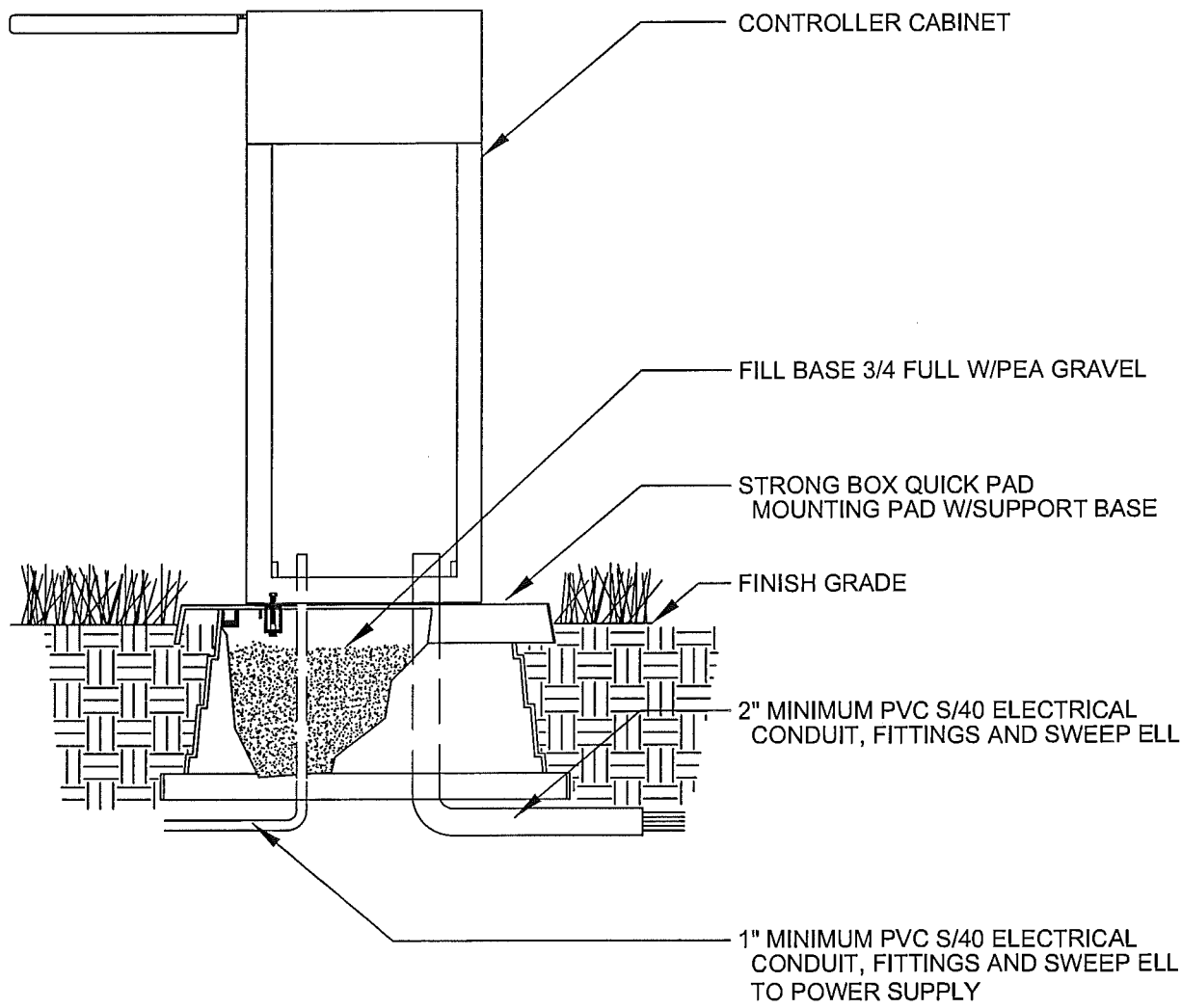


DALE WINCHESTER &  
ASSOCIATES  
2215 East Pincrest Lane  
Sandy UT 84092  
801 571-6060

SOUTH JORDAN CITY  
PARKS DEPARTMENT  
1600 West Towne Center Drive  
South Jordan, Utah 84095  
(801) 254-3742



SOUTH JORDAN



NOTE: INSTALL PAIGE WIRE GROUNDING GRID PER MFG. REQUIREMENTS

# IRRIGATION DETAIL IRR-04 PEDESTAL MOUNT CONTROLLER

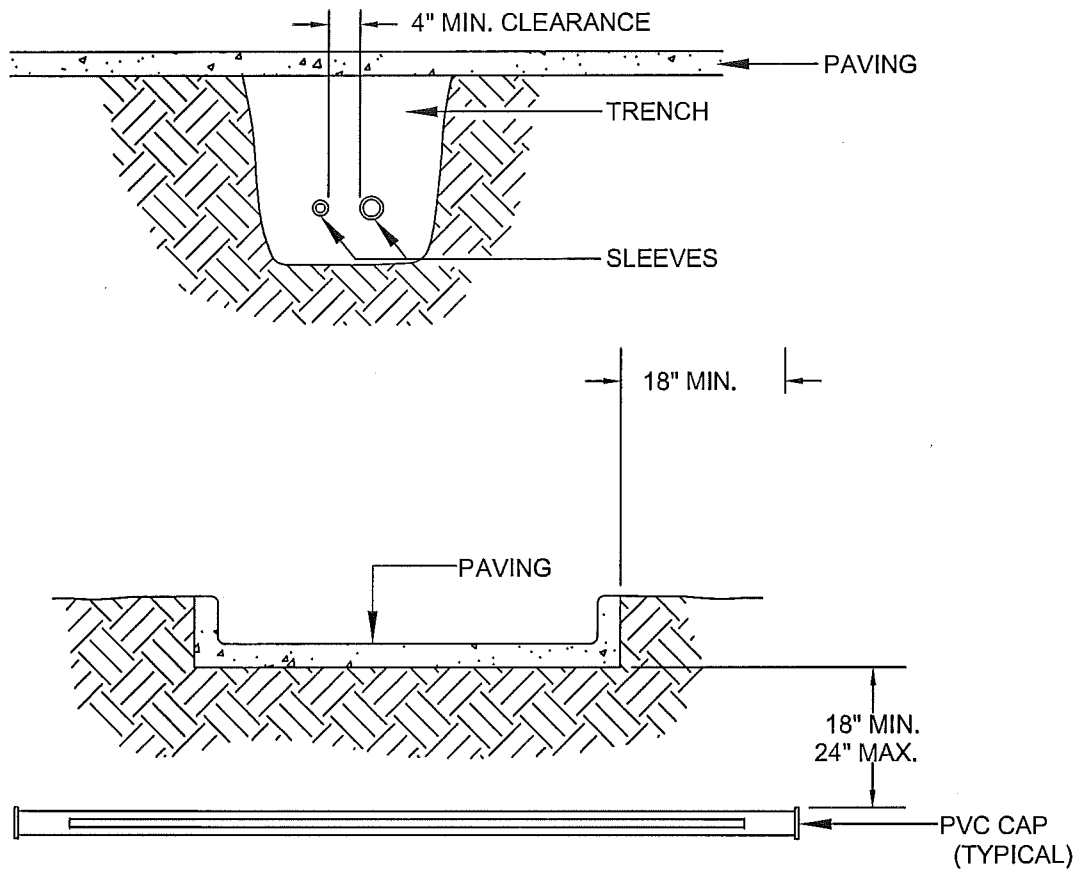
version: 01, revision: 00, date: 8/2006



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NOTES:

1. SLEEVES UNDER ROADS TO BE DUCTILE IRON IF CODE DIRECTS, OTHERWISE PVC.
2. ALL JOINTS ( EXCEPT DUCTILE IRON) TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, PLACE THEM PARALLEL IN TRENCH.  
DO NOT PLACE ON TOP OF EACH OTHER.
4. MECHANICALLY TAMP TO 95% PROCTOR.

## IRRIGATION DETAIL IRR-05 SLEEVING

version: 01, revision: 00, date: 8/2006

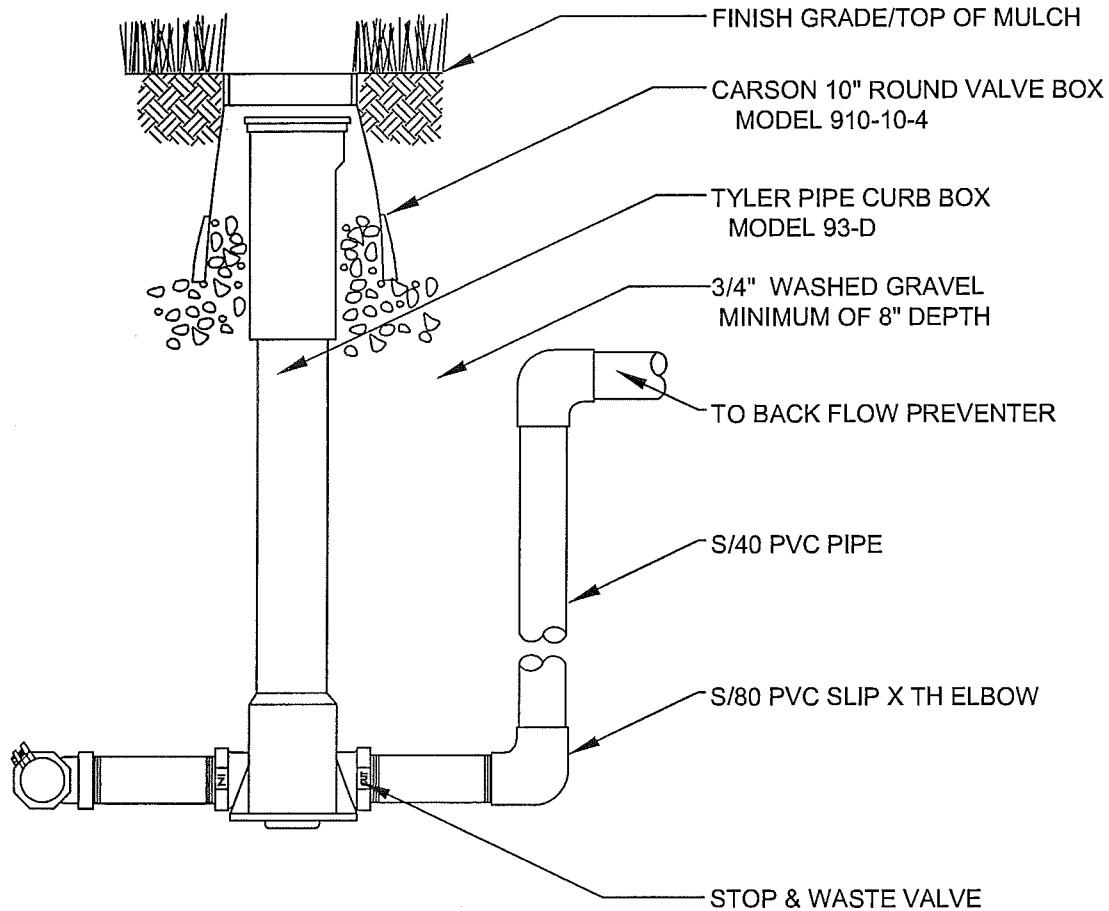


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1. USE MUELLER ORISEAL MODEL H-102-88 VALVE WITH THREADED TOP. HARD PIPE TO SURFACE WITH PIPE AND FITTINGS AS NEEDED.
2. USE USE PACK JOINT TEE, SADDLE, OR PACK JOINT F. A. TO CONNECT ON TO SUPPLY LINE USE MINIMUM 6" BRASS NIPPLES ON EITHER SIDE OF STOP & WASTE VALVE

## IRRIGATION DETAIL IRR-06 STOP & WASTE VALVE

version: 01, revision: 00, date: 8/2006

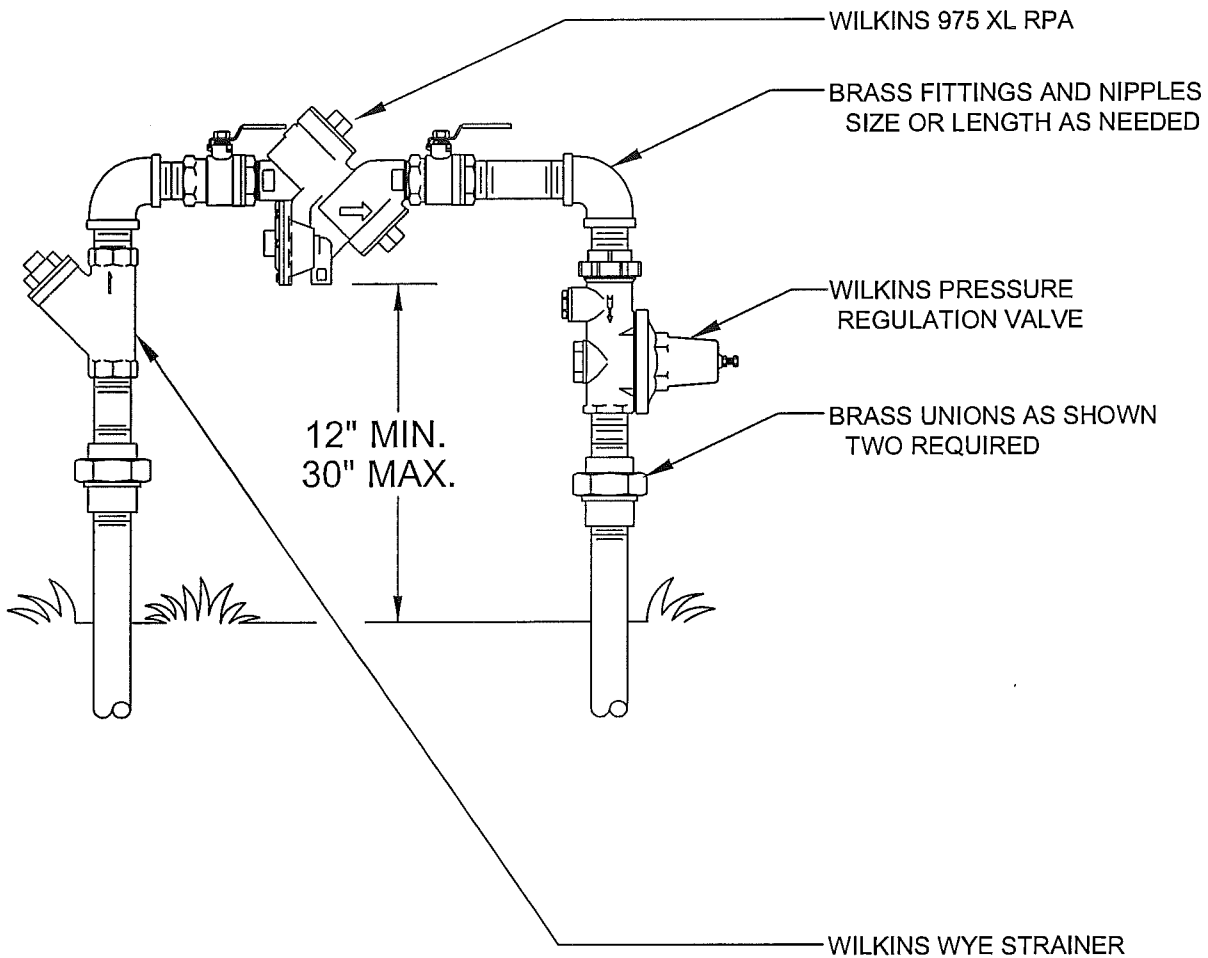


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1. LOCATE BACKFLOW DEVICE IN INCONSPICUOUS AREA IF POSSIBLE.
2. ALL PIPE, FITTINGS AND COMPONENTS SHALL BE BRASS.

## IRRIGATION DETAIL IRR-07 BACKFLOW RPA

version: 01, revision: 00, date: 8/2006

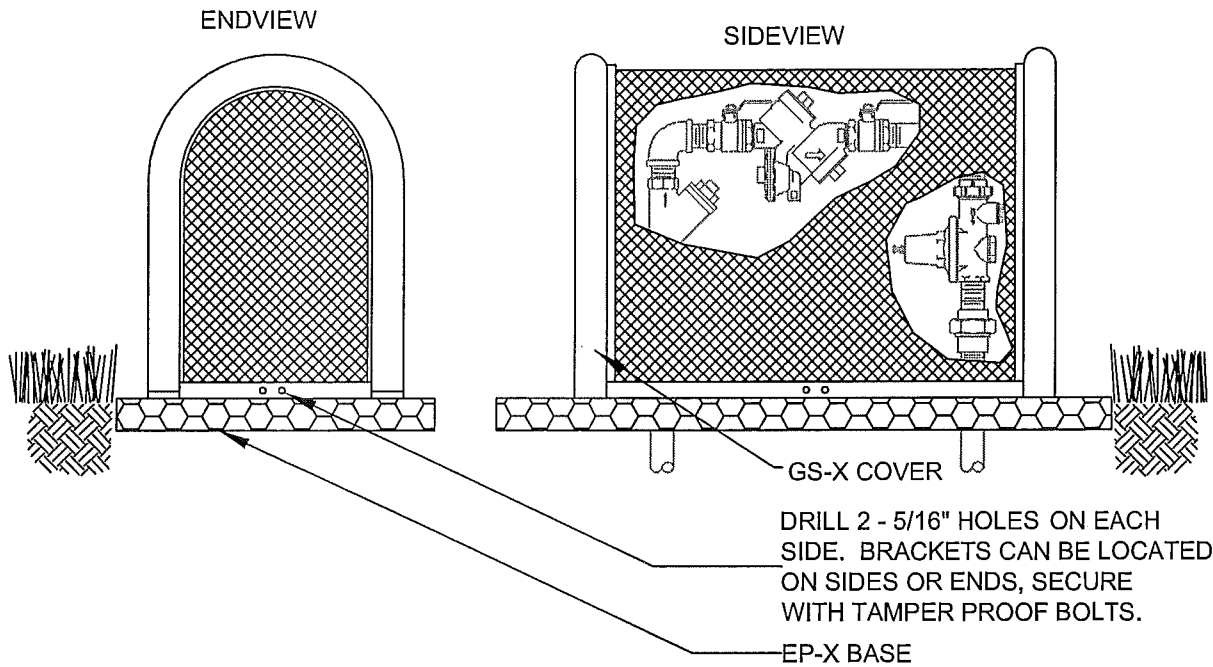


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1. USE BPGI BRAND 'GUARDSHACK', MODEL GS-X, WITH FOREST GREEN POWDER COATING. INSTALL TO MANUFACTURERS RECOMMENDATION.
2. USE BPGI BRAND 'ENCPAD' EP-X, PLASTIC BASE WITH 'PADLOK' ANCHOR HARDWARE. INSTALL TO MANUFACTURERS RECOMMENDATION.

## IRRIGATION DETAIL IRR-08 BACKFLOW COVER

version: 01, revision: 00, date: 8/2006



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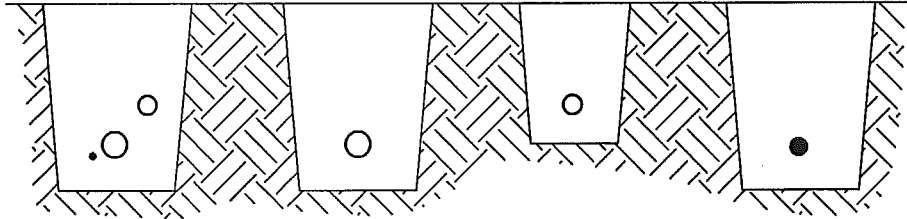
## SECTION VIEW

MAIN, LATERAL,  
AND WIRING  
SAME TRENCH

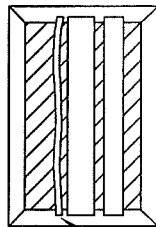
MAIN ONLY

LATERAL ONLY

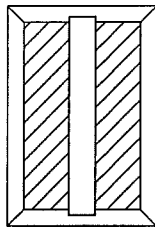
WIRING ONLY  
IN CONDUIT



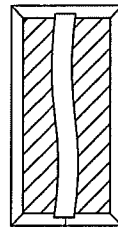
## PLAN VIEW



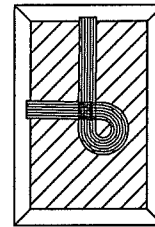
RUN WIRING BENEATH  
AND BESIDE MAINLINE.  
TAPE AND BUNDLE AT  
10' INTERVALS.



ALL SOLVENT WELD  
PLASTIC PIPING TO  
BE SNAKED IN  
TRENCH AS SHOWN.



WIRE W/O CONDUIT



TIE A 24" LOOP IN  
ALL WIRING AT CHANGES  
OF DIRECTION. UNTIE AFTER ALL  
CONNECTIONS ARE MADE.

**NOTES:**

1. SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE WITHIN.
2. SLEEVING SIZES 2" THROUGH 4" SHALL BE S/40 SOLVENT WELD.  
6" AND ABOVE SHALL BE CL 200 GASKETED.
3. PIPE AND WIRE SHALL BE PLACED IN SEPARATE SLEEVES.
4. MAIN LINE SHALL HAVE 18" MIN. COVER, LATERAL LINE SHALL HAVE 12" MIN. COVER.

# IRRIGATION DETAIL IRR-09 PIPE & WIRE TRENCH

version: 01, revision: 00, date: 8/2006

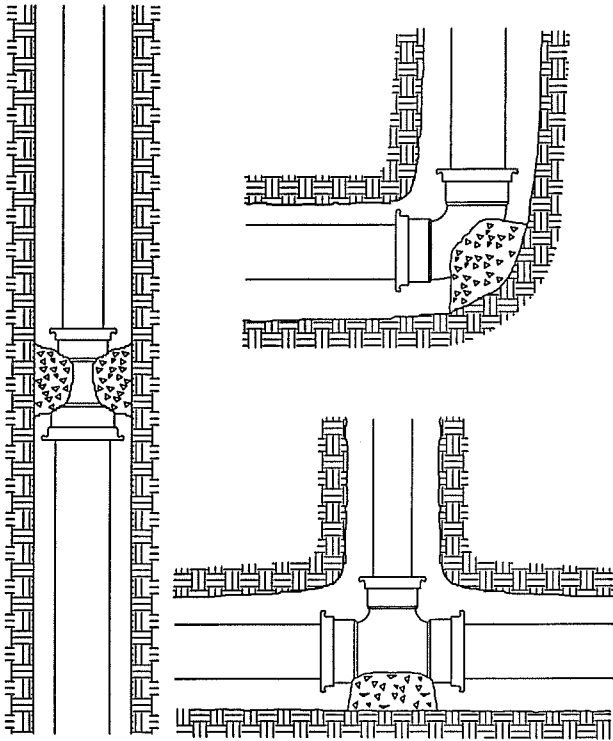


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**TABLE 1**

SIZE	TEES PLUGS	90° BEND	45° BEND	22.5° BEND
2"	363	513	259	141
2 1/2"	531	751	379	207
3"	788	1,114	562	307
4"	1,302	1,841	928	508
6"	2,822	3,990	2,012	1,101
8"	4,783	6,763	3,410	1,865
10"	7,430	10,506	5,297	2,898
12"	10,452	14,778	7,452	4,076

FOR REDUCERS, SUBTRACT SMALL OPENING PLUG THRUST FROM LARGE OPENING PLUG THRUST TO CALCULATE THRUST / 100.

**TABLE 2**

SOIL TYPE	SAFE BEARING LOAD LBS PER SQ FT*
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL CEMENTED W/CLAY	4,000
HARD PAN	10,000

\*THE ABOVE BEARING LOAD DATA WAS PROVIDED BY HARCO MFG. WHEN IN DOUBT, THE CONTRACTOR SHALL CONTACT A SOILS ENGINEER AND CONTRACT FOR A SOILS BEARING, OR OTHER NECESSARY TESTS.

**NOTES:**

1. PROVIDE THRUST BLOCKS AT ALL CHANGES IN SIZE OR DIRECTION. BENDS, REDUCERS, PLUGS AND THE OPPOSITE SIDE OF TEE BRANCHES ALL REQUIRE THRUST BLOCKS.
2. THE SIZE OF THE THRUST BLOCK IS DETERMINED BY THE WORKING PRESSURE, THE SIZE AND TYPE OF FITTING, AND SOIL CONDITIONS AT THE JOB SITE. TO CALCULATE THE AREA OF CONTACT WITH THE SOIL, FOLLOW THESE STEPS:  
CALCULATE THE THRUST BY SELECTING THRUST / 100 BY SIZE AND TYPE OF FITTING FROM TABLE #1 AND MULTIPLYING THRUST / 100 BY SYSTEM PRESSURE / BY 100.
3. DIVIDE THE TOTAL THRUST BY BEARING CAPACITY OF THE SOIL IN EXCAVATION, (FROM TABLE #2 TO DETERMINE THE AREA IN SQUARE FEET OF THRUST BLOCK REQUIRED TO BE IN CONTACT WITH THE UNDISTURBED SOIL.

# IRRIGATION DETAIL IRR-10 THRUST BLOCKING

version: 01, revision: 00, date: 8/2006

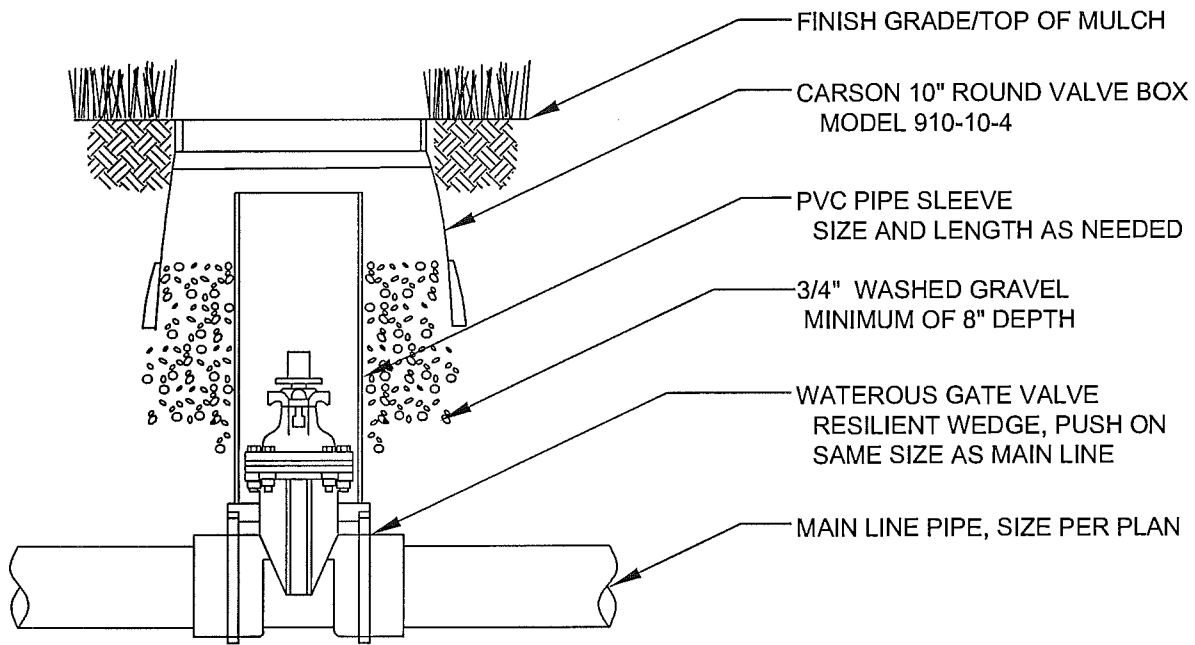


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NOTES:

1. TO BE USED ON MAIN LINE PIPE 3" AND LARGER.
2. VALVE SHALL HAVE 2" SQUARE OPERATING NUT.

## IRRIGATION DETAIL IRR-11 LARGE GATE VALVE

version: 01, revision: 00, date: 8/2006

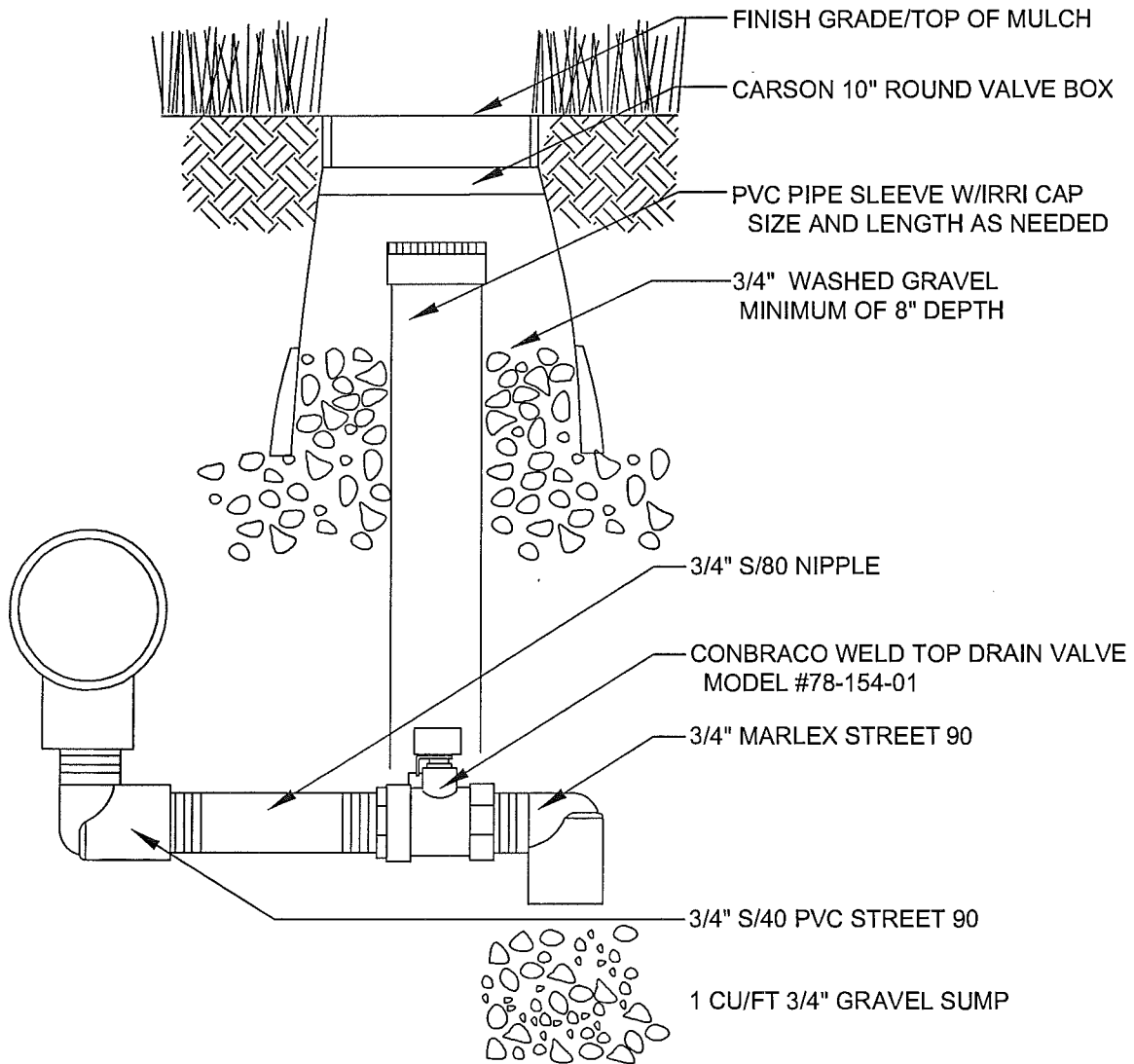


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## IRRIGATION DETAIL IRR-12 MANUAL DRAIN

version: 01, revision: 00, date: 8/2006

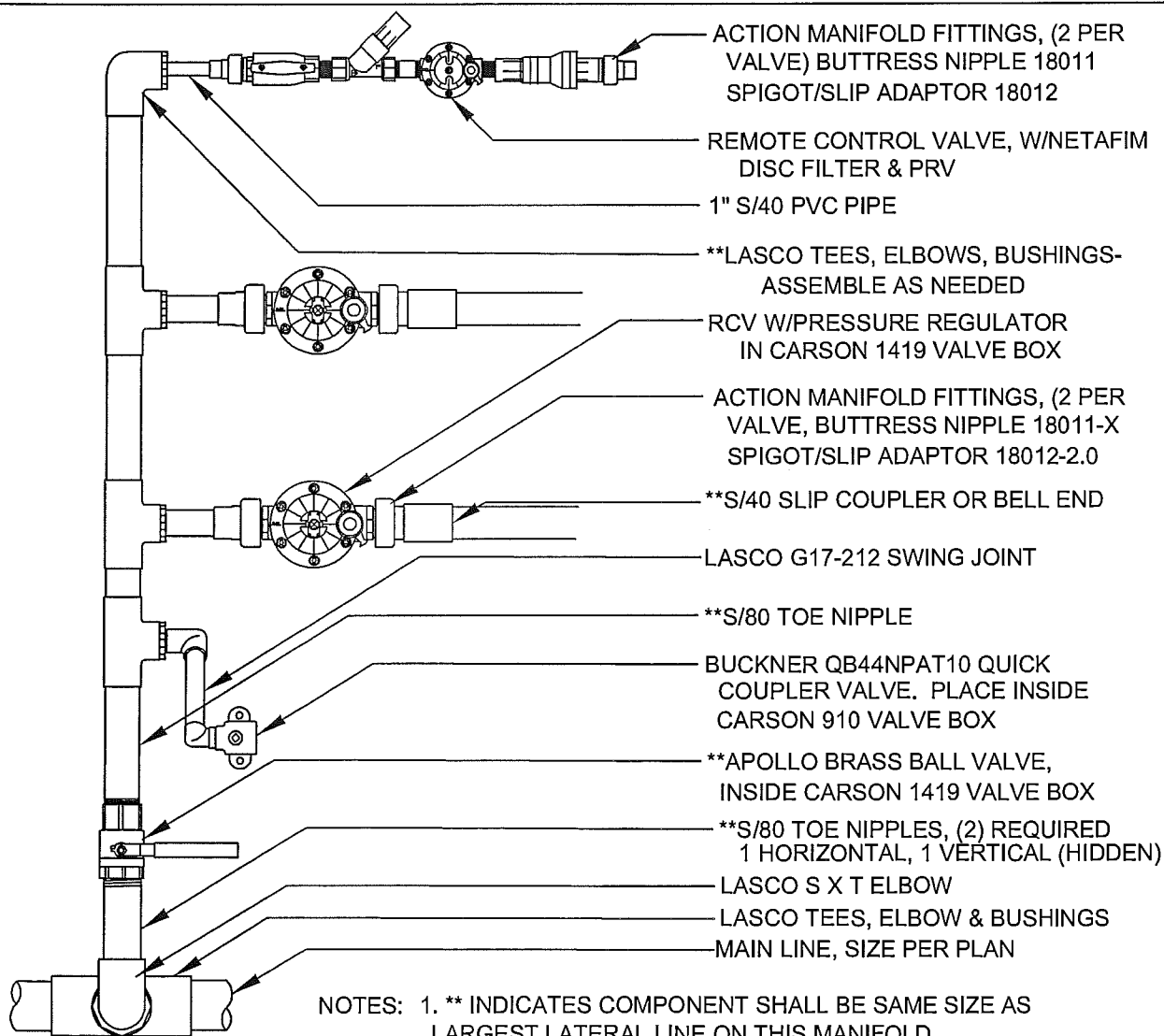


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## IRRIGATION DETAIL IRR-13 CONTROL VALVE MANIFOLD SCH-80

version: 01, revision: 00, date: 8/2006

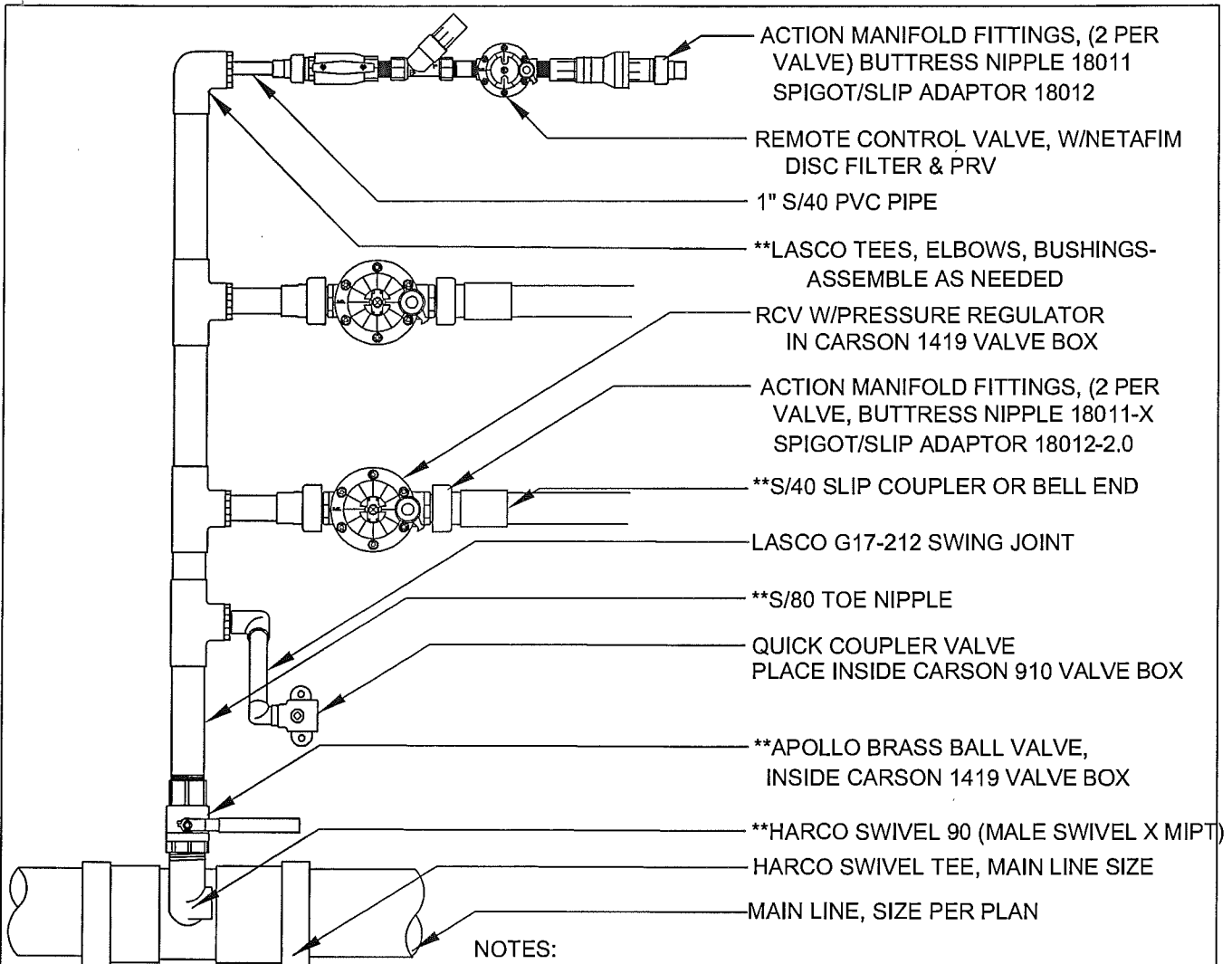


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- NOTES:
1. \*\* INDICATES COMPONENT SHALL BE SAME SIZE AS LARGEST LATERAL LINE ON THIS MANIFOLD.
  2. DOWNSTREAM OF BALL VALVE: MANIFOLD FITTINGS SHALL BE S/80, PVC PIPE SHALL BE S/40.

## IRRIGATION DETAIL IRR-14 CONTROL VALVE MANIFOLD HARCO

version: 01, revision: 00, date: 8/2006

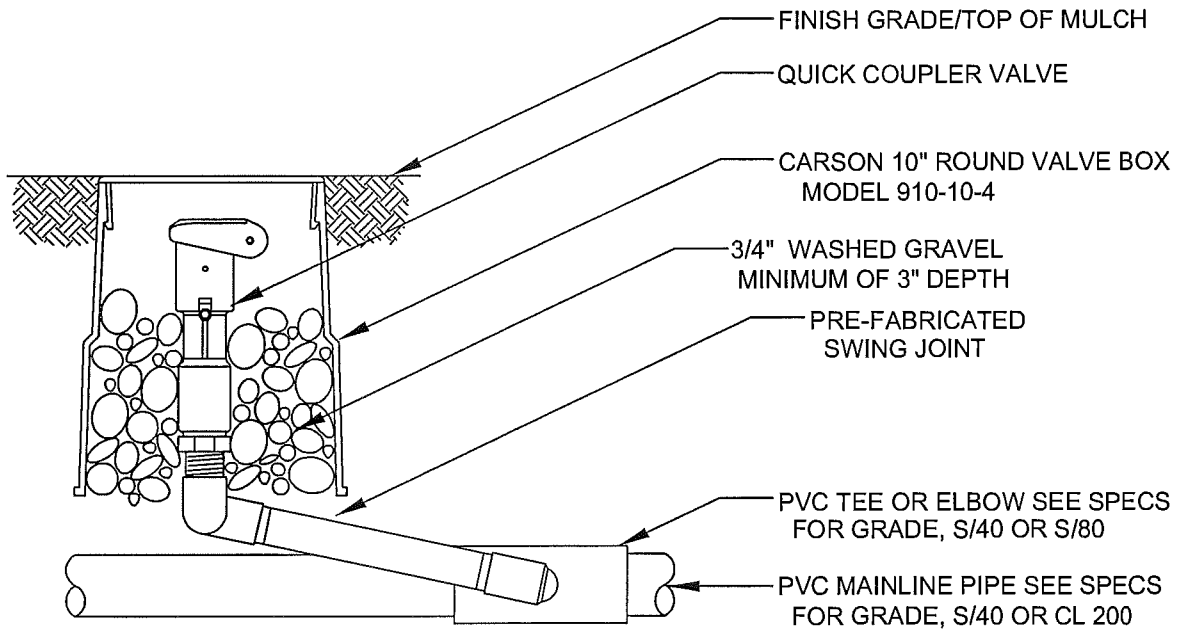


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NOTES:

1. ACME O-RING SEALED THREADS ARE TO BE FINGER TIGHTENED AND THEN BACKED OFF ONE FULL ROTATION PRIOR TO INSTALLATION.
2. SWING JOINT LAY ARM SHALL BE INSTALLED AT ANGLE, BETWEEN 30 AND 45 DEGREES TO THE MAIN LINE PIPE.
3. SWING JOINT SHALL BE PRE-FABRICATED LASCO MODEL G17S-212

## IRRIGATION DETAIL IRR-15 QUICK COUPLER VALVE

version: 01, revision: 00, date: 8/2006

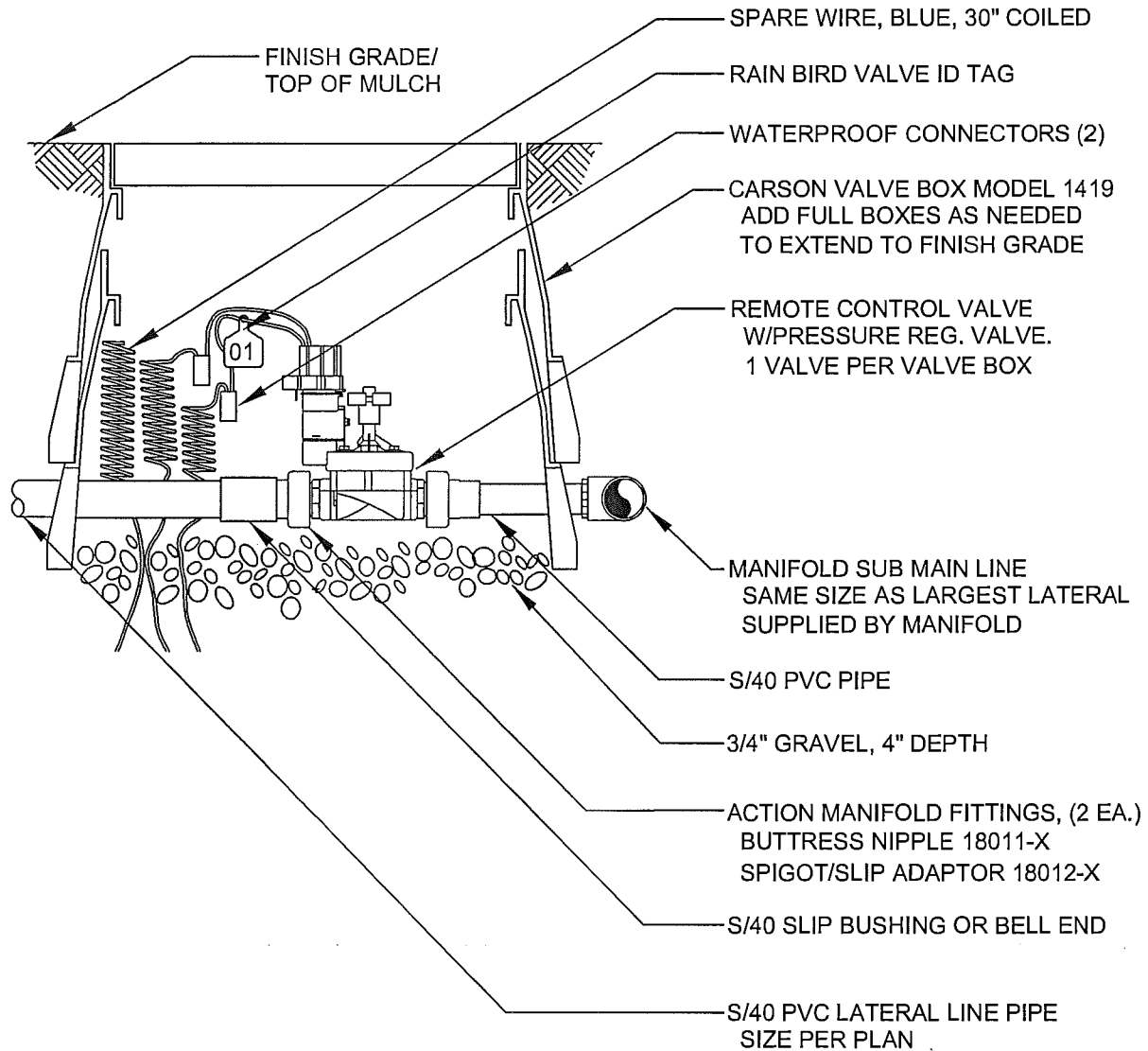


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# IRRIGATION DETAIL IRR-16 REMOTE CONTROL VALVE

version: 01, revision: 00, date: 8/2006

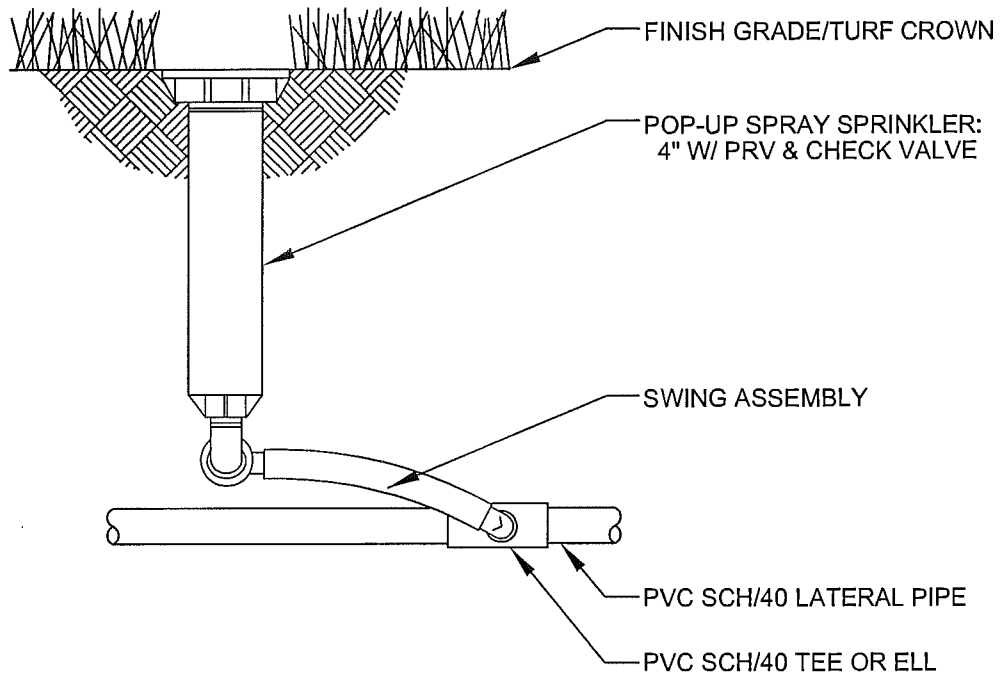


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**NOTES:**

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

## IRRIGATION DETAIL IRR-17 4" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

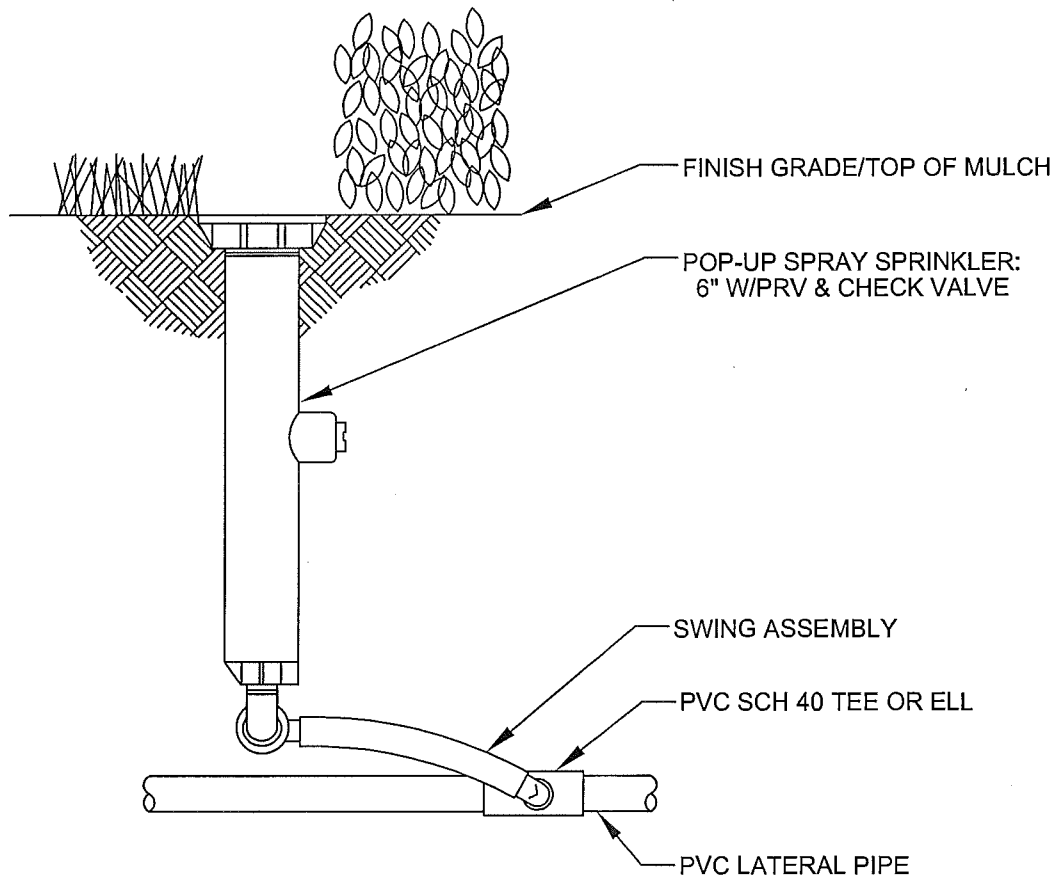


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

## IRRIGATION DETAIL IRR-18 6" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

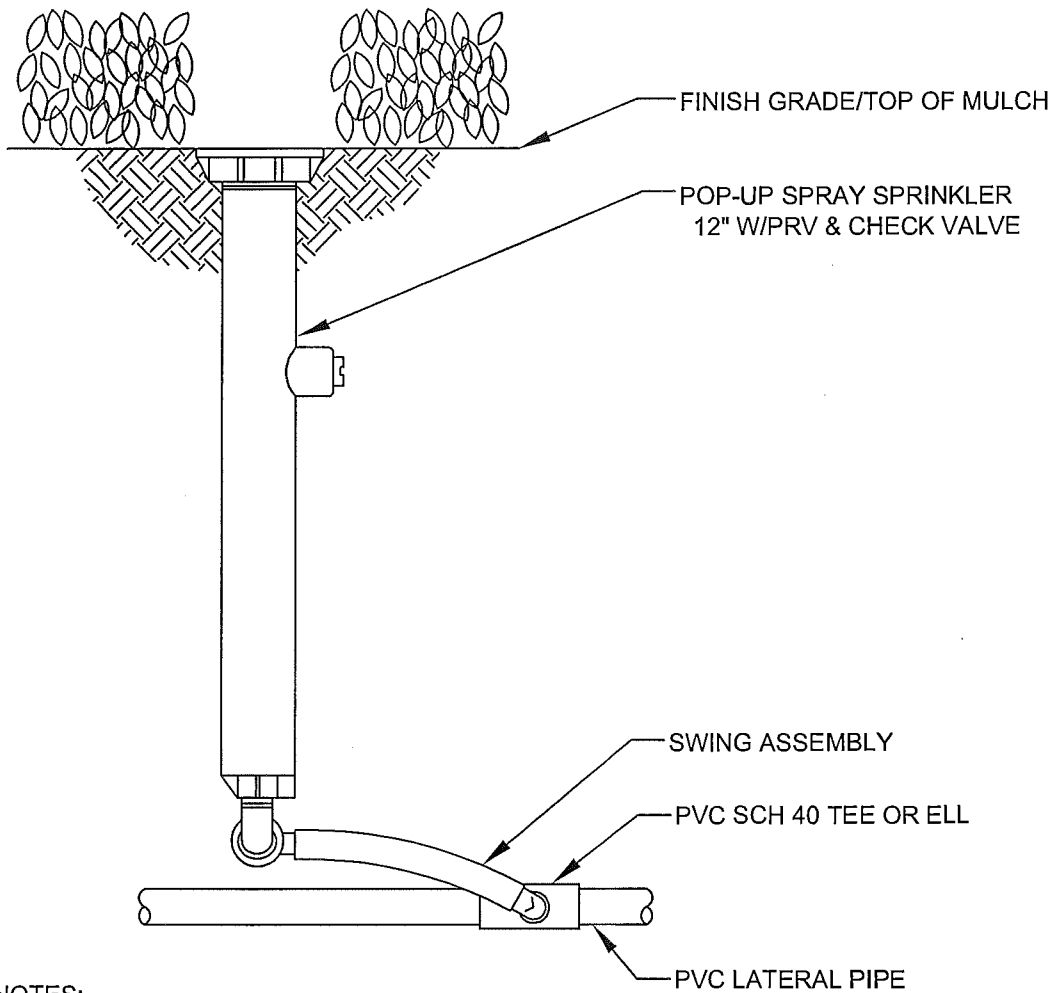


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

## IRRIGATION DETAIL IRR-19 12" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

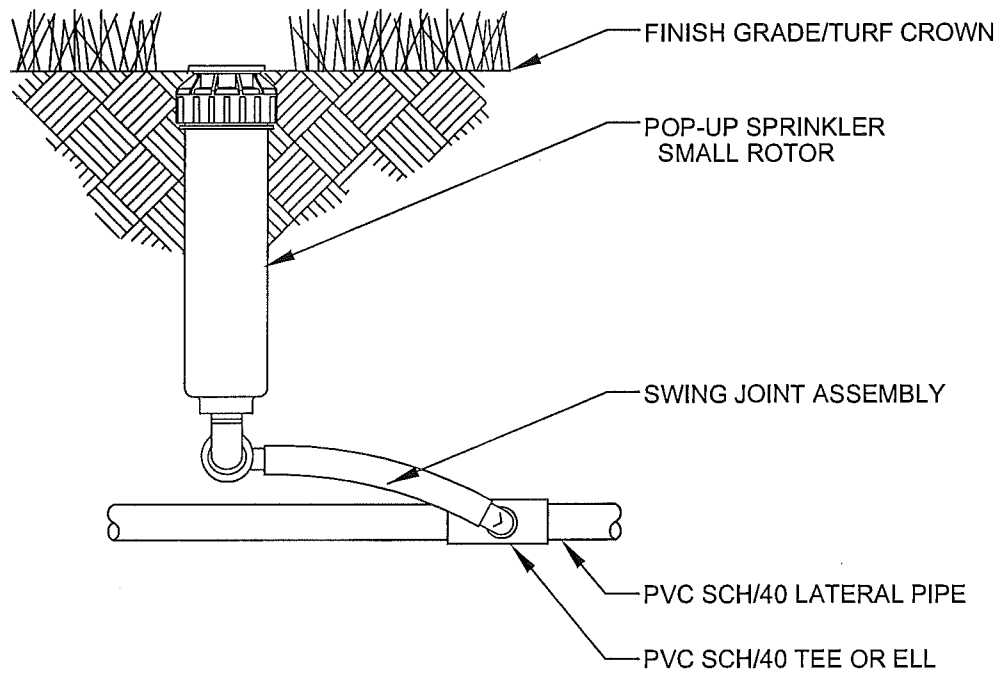


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NOTES:

1. SWING JOINT JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, SBE-050, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE NOZZLE SPECIFIED ON PLAN.

## IRRIGATION DETAIL IRR-20 SMALL ROTOR HEAD

version: 01, revision: 00, date: 8/2006

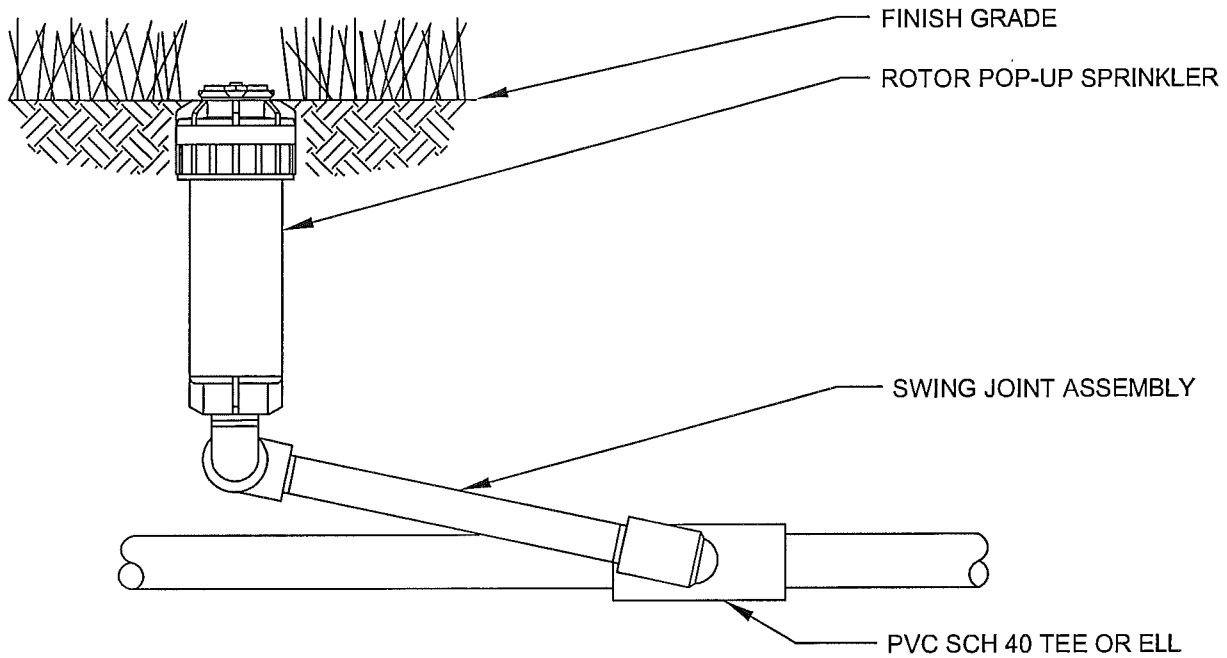


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NOTES:

1. POSITION LAY ARM OF SWING JOINT 30 TO 45 DEGREES FROM LATERAL PIPE.
2. INSTALL NOZZLE AS INDICATED ON PLAN. USE BOTTOM INLET ONLY.
3. FOR SWING JOINT, USE 3 MARLEX STREET ELBOWS AND 1 S/80 12" NIPPLE .

## IRRIGATION DETAIL IRR-21 MEDIUM ROTOR HEAD

version: 01, revision: 00, date: 8/2006

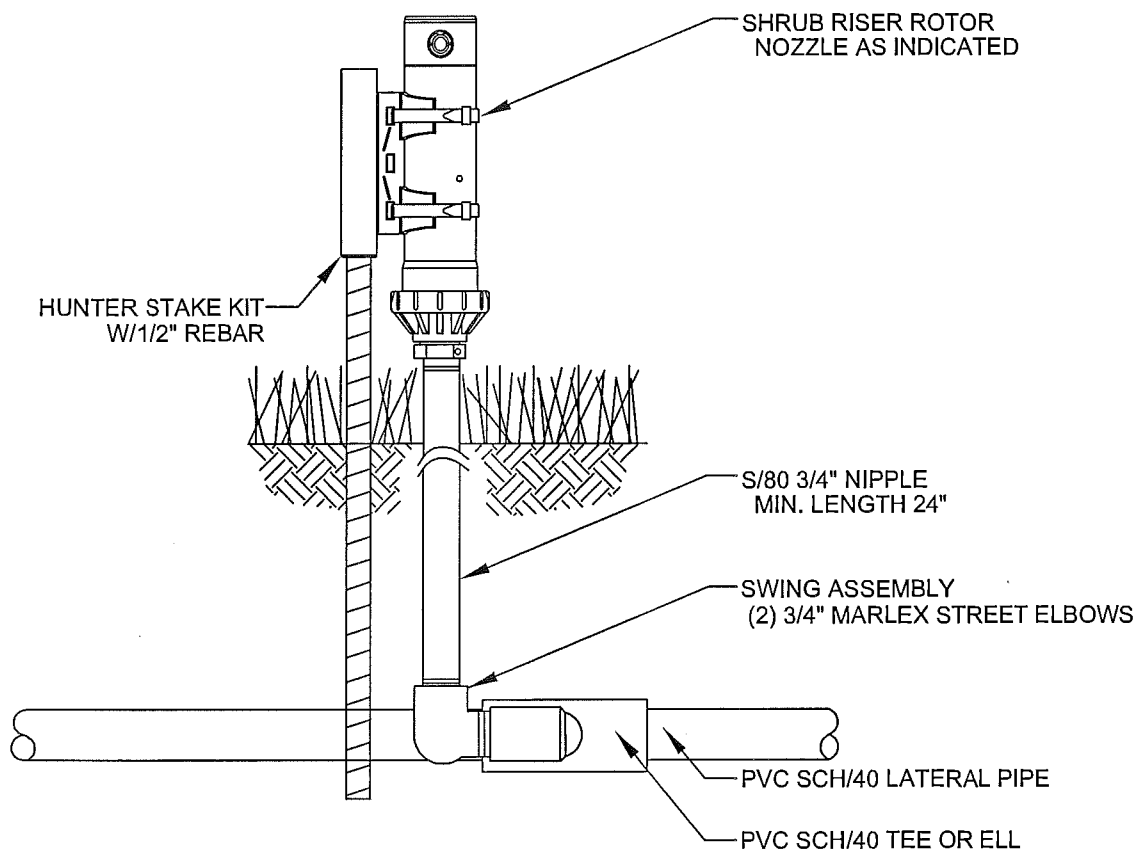


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**NOTES:**

1. INSTALL 1/2" REBAR ROD SUFFICIENT TO PREVENT ROTOR MOVEMENT.
2. INSTALL STAKE KIT AS SHOWN W/CABLE TIES.
3. INSTALL 3/4 X 24 S/80 NIPPLE. EXTEND LENGTH AS NEEDED.

## IRRIGATION DETAIL IRR-22 MEDIUM ROTOR SHRUB RISER

version: 01, revision: 00, date: 8/2006

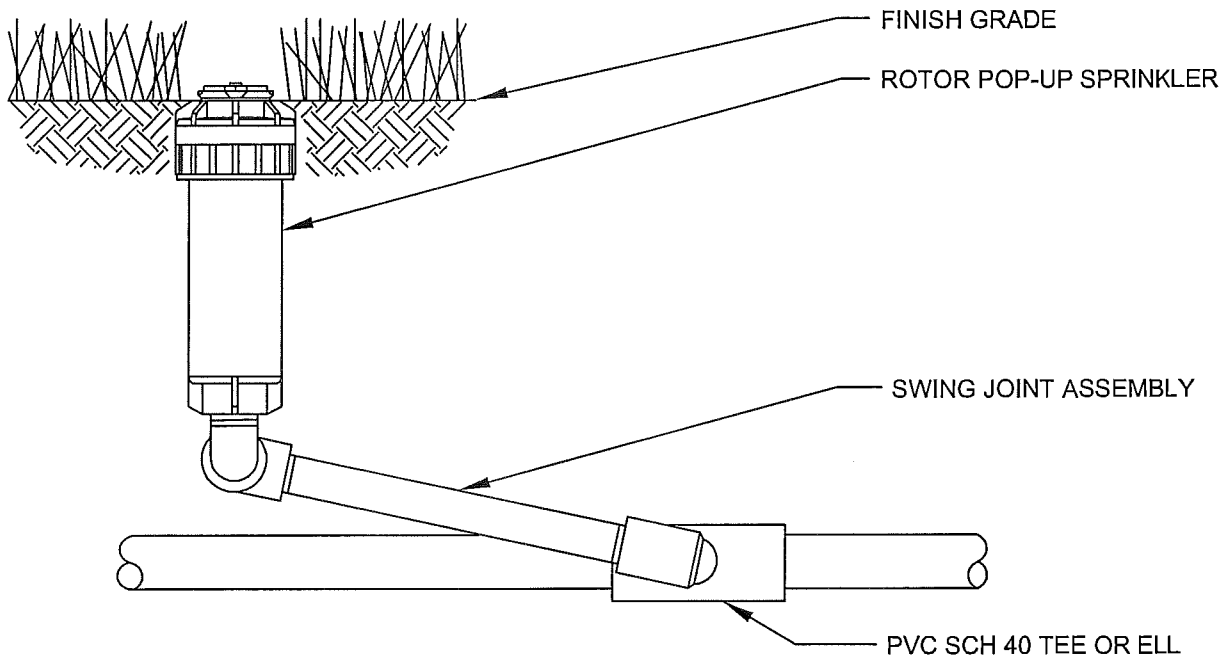


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NOTES:

1. POSITION LAY ARM OF SWING JOINT 30 TO 45 DEGREES FROM LATERAL PIPE.
2. INSTALL NOZZLE AS INDICATED ON PLAN. USE BOTTOM INLET ONLY.
3. FOR SWING JOINT, USE MFG PRE-FABRICATED SWING JOINT ASSEMBLY.

## IRRIGATION DETAIL IRR-23 SPORTS TURF HEAD

version: 01, revision: 00, date: 8/2006

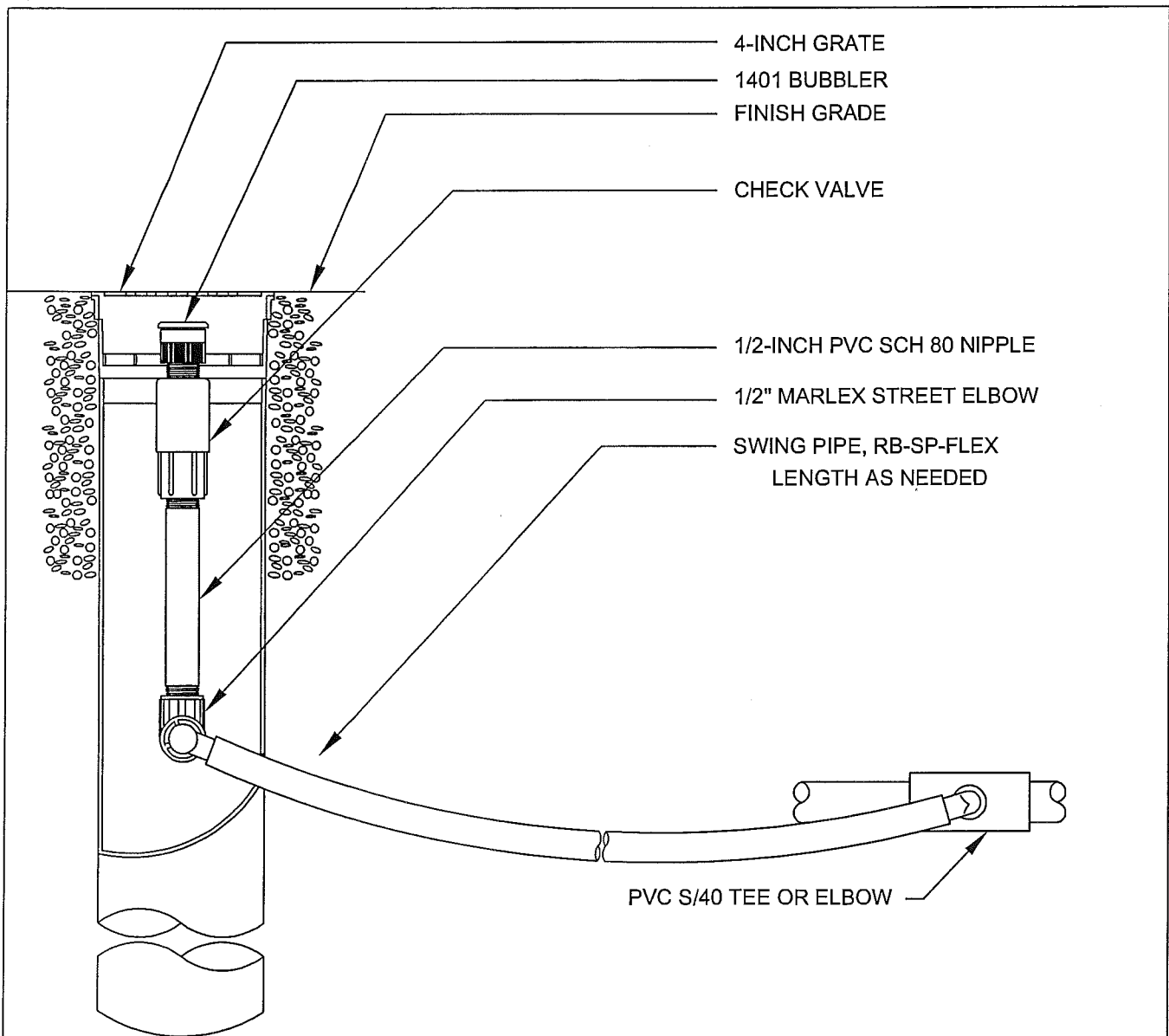


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# IRRIGATION DETAIL IRR-24 TREE WATERING SYSTEM

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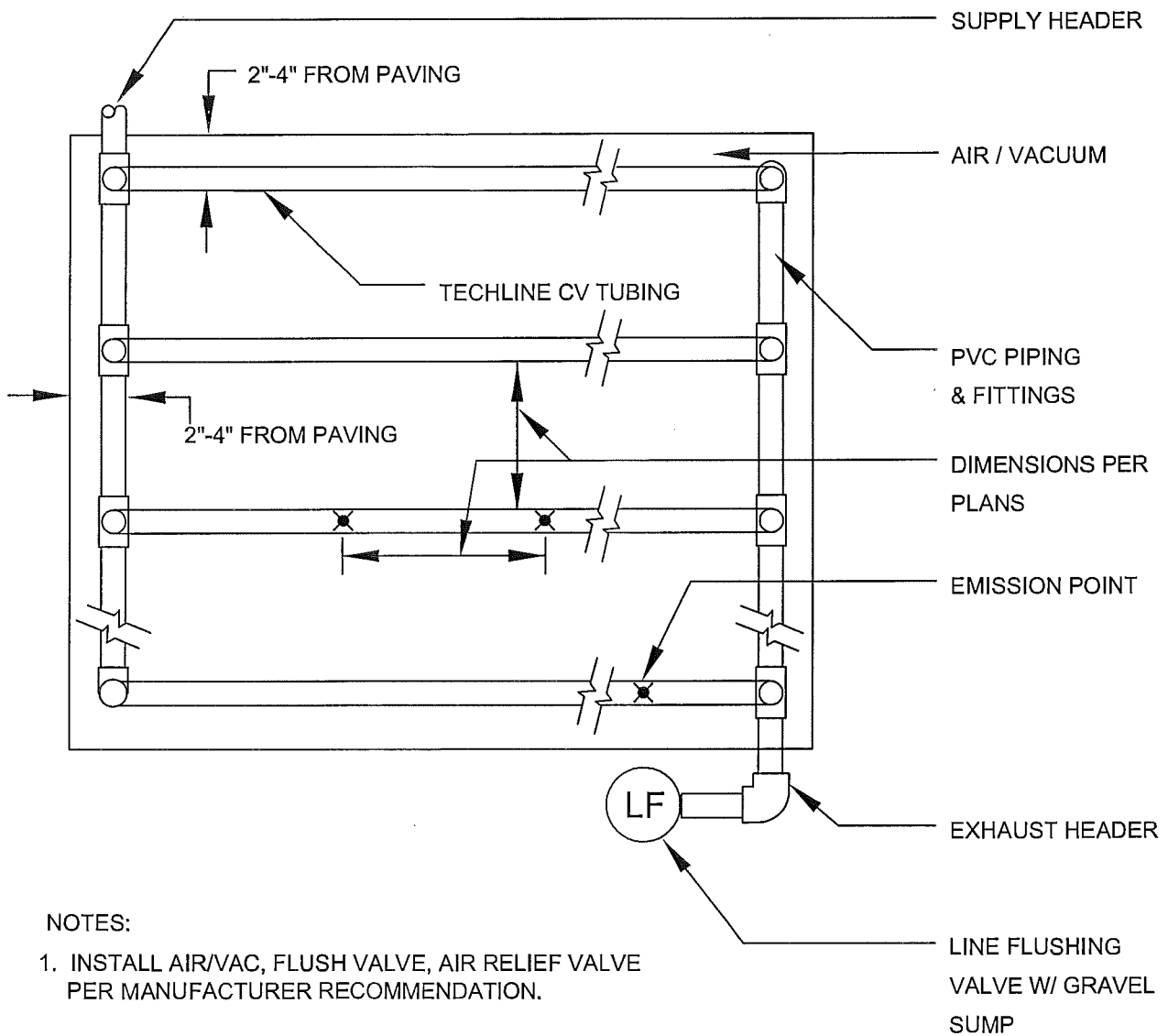


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## IRRIGATION DETAIL IRR-25 IN LINE DRIP GRID LAYOUT

version: 01, revision: 00, date: 8/2006

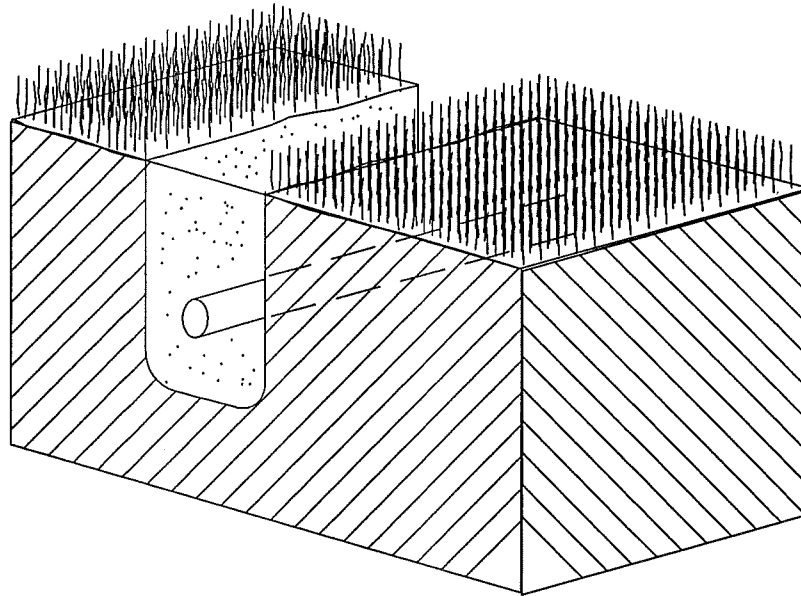
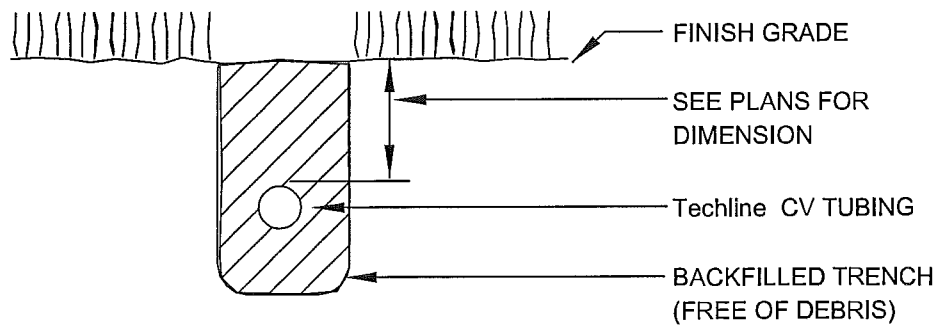


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NOTES:

1. INSTALL AIR/VAC, FLUSH VALVE, AIR RELIEF VALVE PER MANUFACTURER RECOMMENDATION.

## IRRIGATION DETAIL IRR-26 DRIP SUB SURFACE TURF

version: 01, revision: 00, date: 8/2006

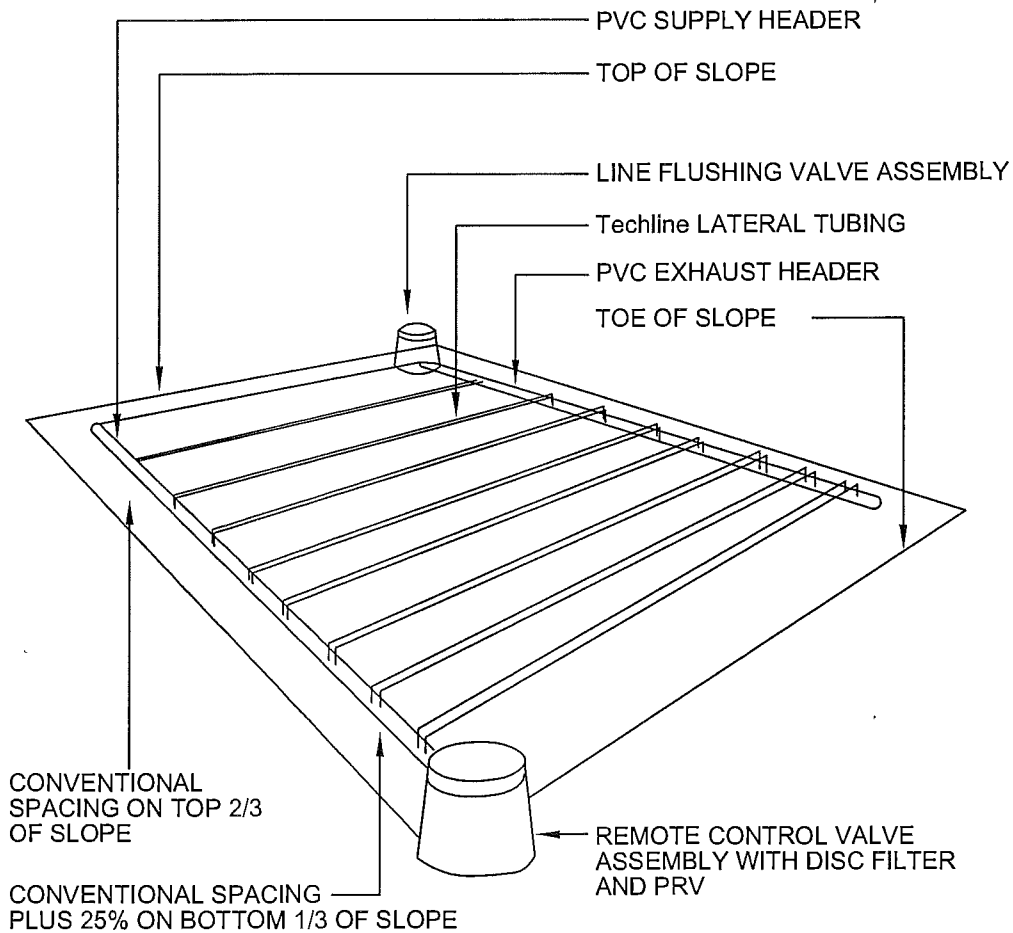


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NOTE:  
ALIGN Techline LATERALS PARRALLEL TO THE CONTOURS OF THE SLOPE

## IRRIGATION DETAIL IRR-27 DRIP ON SLOPE

version: 01, revision: 00, date: 8/2006

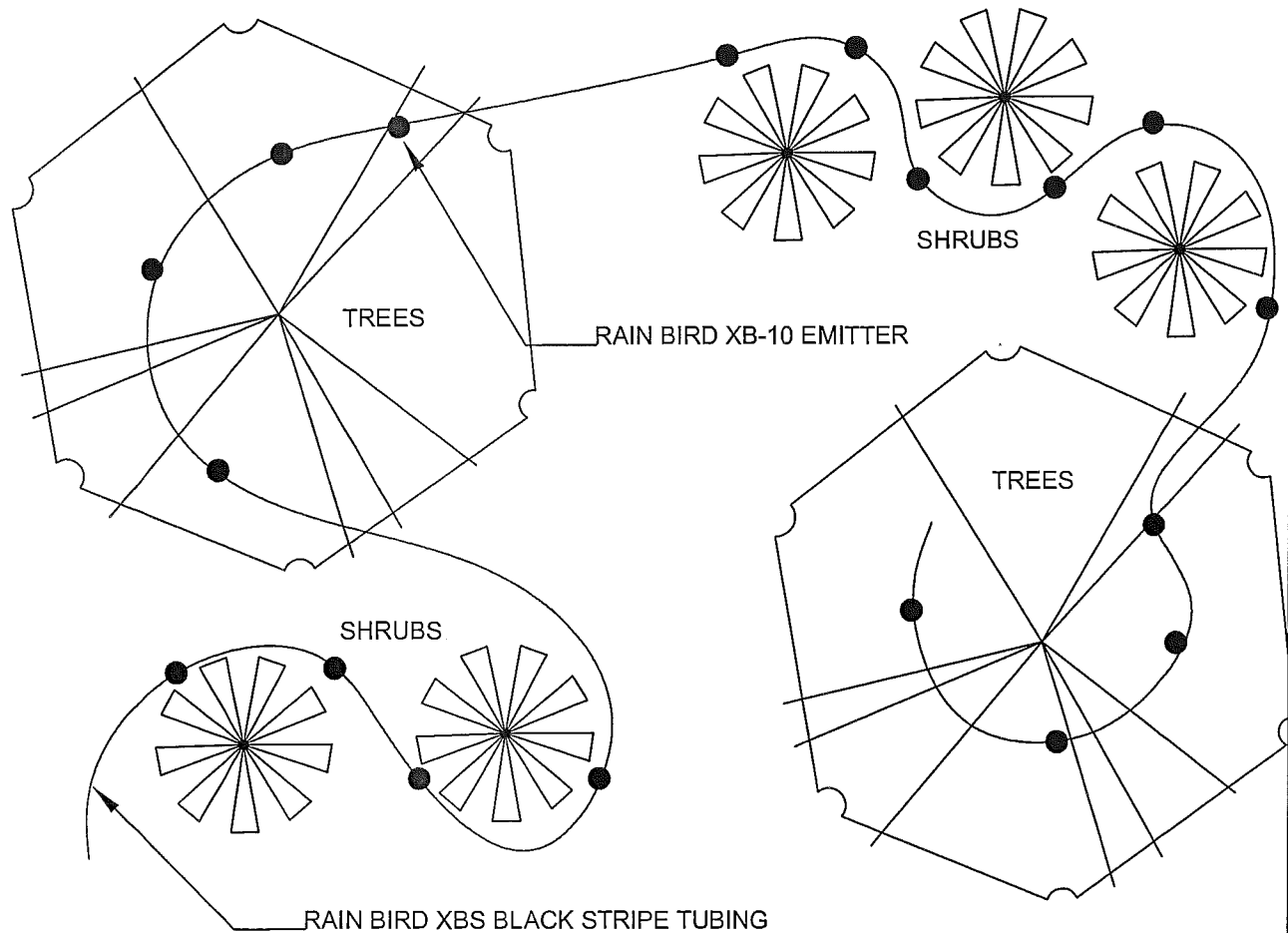


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LOCATE EMITTERS ON UPHILL SIDE OF SHRUBS. ON  
ON SLOPES PROVIDE WATER RETENTION BASIN  
AROUND PLANT TO ALLOW WATER TO POOL

## IRRIGATION DETAIL IRR-28 DRIP POINT SOURCE EMITTER

version: 01, revision: 00, date: 8/2006

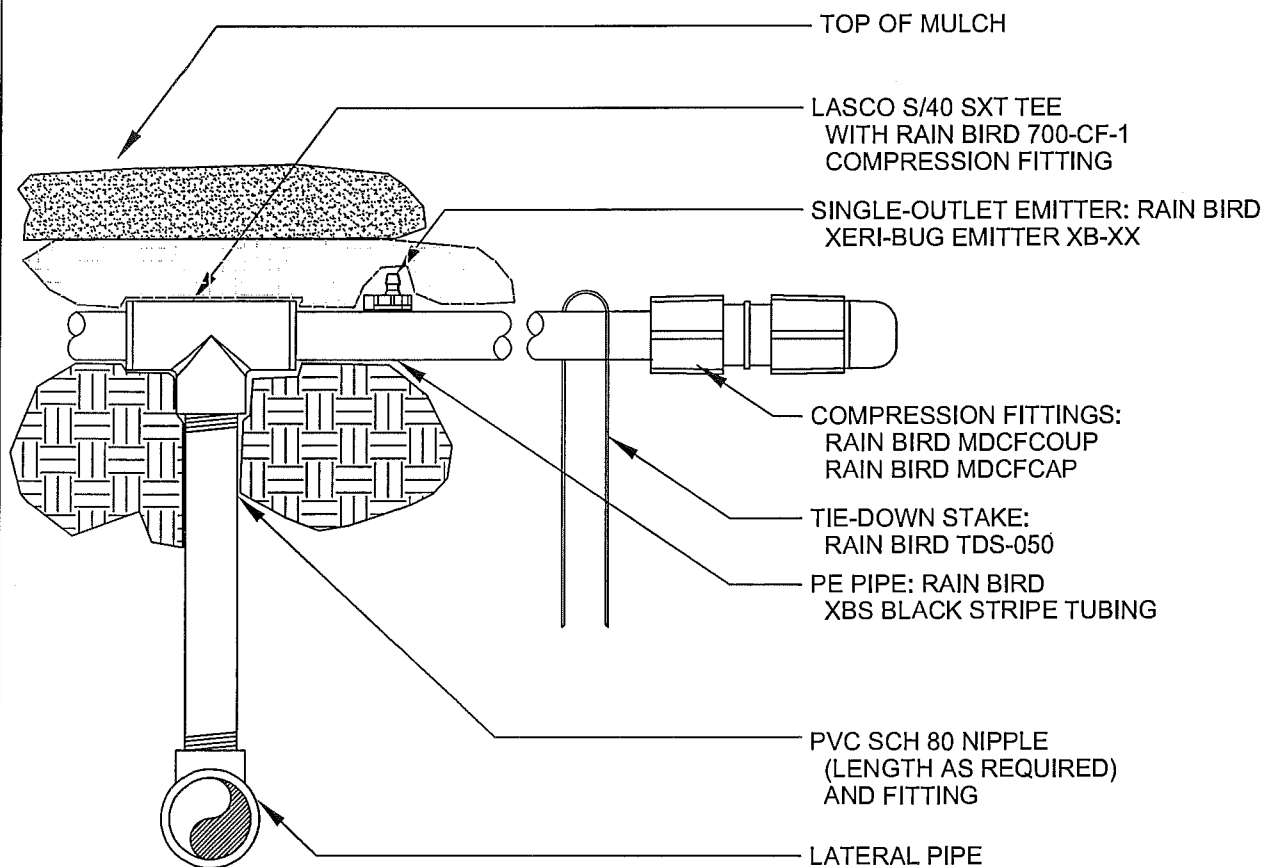


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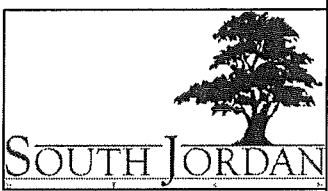
NOTE:  
 1. USE RAIN BIRD BUG GUN MODEL EMA-BG TO INSERT EMITTER DIRECTLY INTO XBS BLACK STRIPE TUBING.

## IRRIGATION DETAIL IRR-29 DRIP PVC TO PE CONNECTION

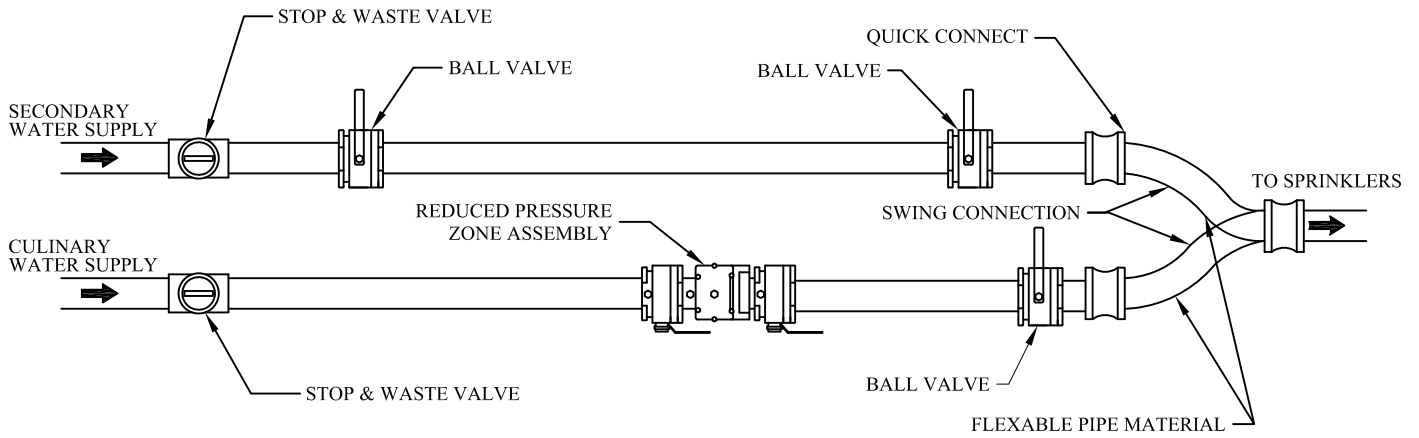
version: 01, revision: 00, date: 8/2006


 DALE WINCHESTER &  
 ASSOCIATES  
 2215 East Pincrest Lane  
 Sandy UT 84092  
 801 571-6060

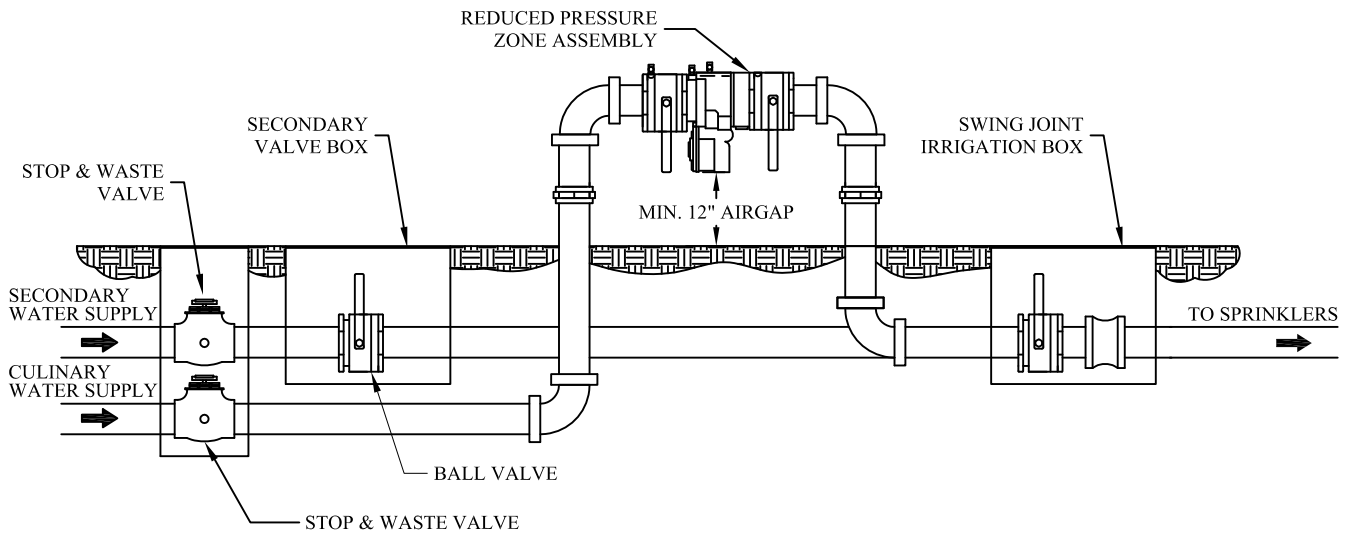
SOUTH JORDAN CITY  
 PARKS DEPARTMENT  
 1600 West Towne Center Drive  
 South Jordan, Utah 84095  
 (801) 254-3742



# **SECONDARY WATER**



**PLAN VIEW**  
NOT TO SCALE



**PROFILE VIEW**  
NOT TO SCALE

NOTES:

1. THE SWING CONNECTION IS INSTALLED SO THAT EITHER THE SECONDARY IRRIGATION WATER OR THE CULINARY WATER IS CONNECTED AND FEEDING THE SPRINKLER SYSTEM AT THE ONE TIME, NEVER BOTH.
2. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" FROM WALL, FENCE OR OTHER OBSTACLE.
3. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" ABOVE GRADE (NOT ALLOWED IN A PIT BELOW GRADE).
4. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN ON AN ANNUAL BASIS.



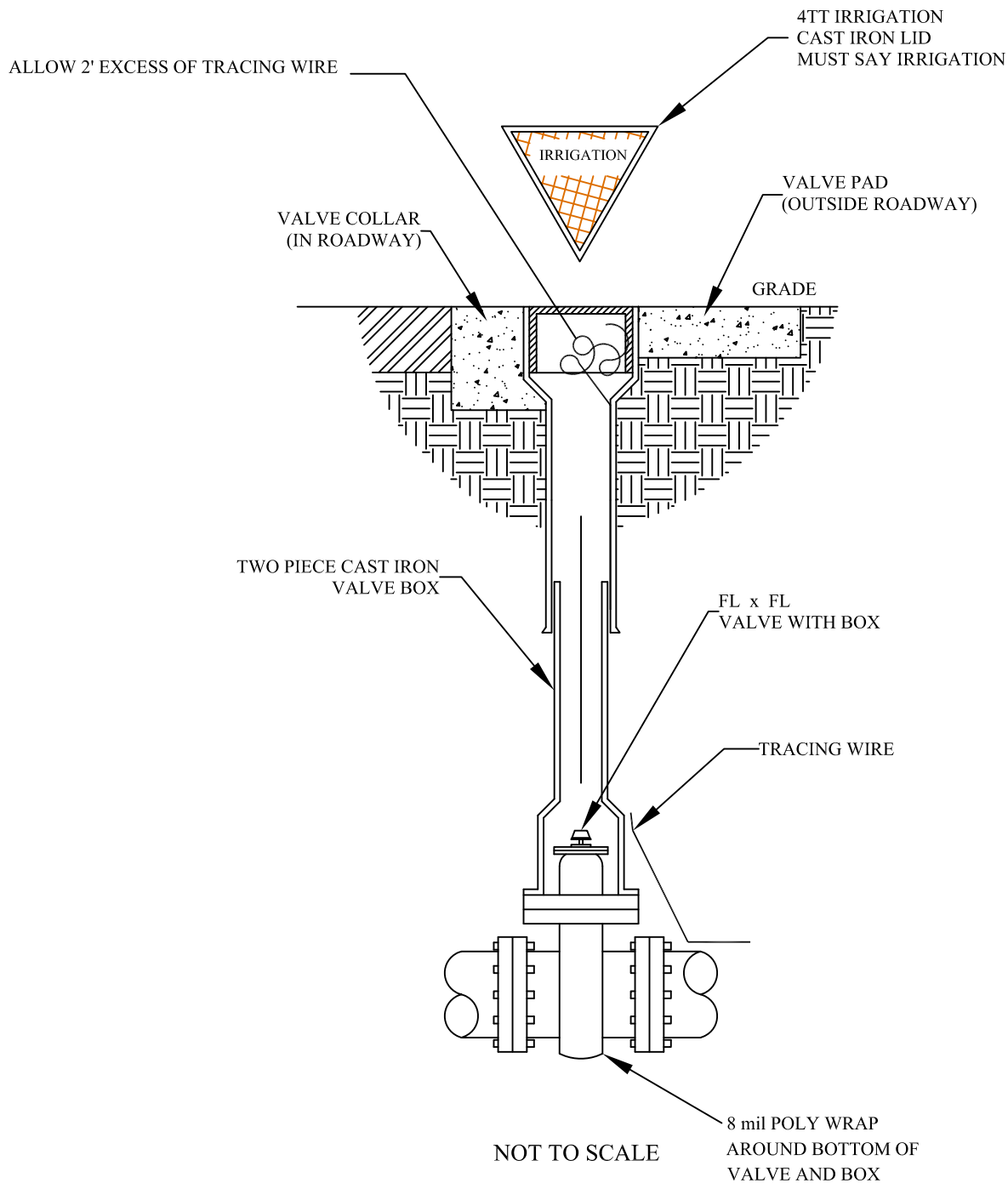
**SOUTH JORDAN CITY**

			DRAWN: KS
			DATE: 2/06
DATE	REVISIONS	BY	

**BACKFLOW PREVENTION DEVICE  
IRRIGATION CONNECTION**

STANDARD  
DRAWING  
**2001**





- NOTES: 1. 14 GAUGE COPPER WIRE SHALL BE PLACED OUTSIDE OF BOTTOM OF BOX AND INSIDE TOP OF BOX
2. VALVE OPERATING NUTS SHALL BE WITHIN 3' TO THE FINISHED SURFACE. EXTENTIONS STEMS WITH ROCK SHIELDS SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.

PREPARED BY: \_\_\_\_\_

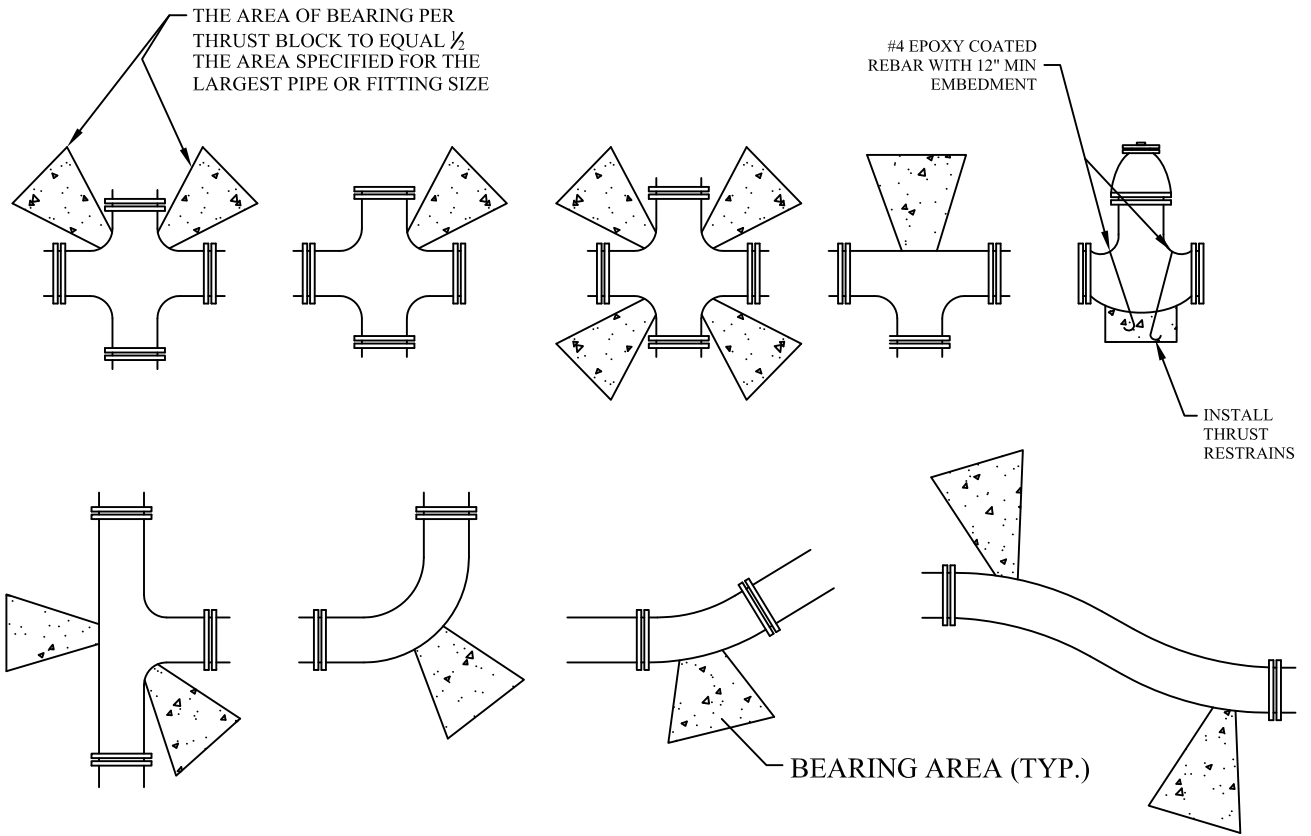


**SOUTH JORDAN CITY**

			DRAWN: <b>KS</b>
			DATE <b>1/06</b>
DATE	REVISIONS	BY	

**VALVE BOX INSTALLATION**

STANDARD  
DRAWING  
**2005**



NOT TO SCALE

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER OR CITY INSPECTOR.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
6. SPECIAL CONSTRUCTION REQUIREMENTS:
  - A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
  - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
  - C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
  - D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
  - E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
  - F. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO PRESSURIZING THE WATER LINE.
7. MEGALUGS REQUIRED ON ALL FITTINGS

MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

PREPARED BY: \_\_\_\_\_



**SOUTH JORDAN CITY**

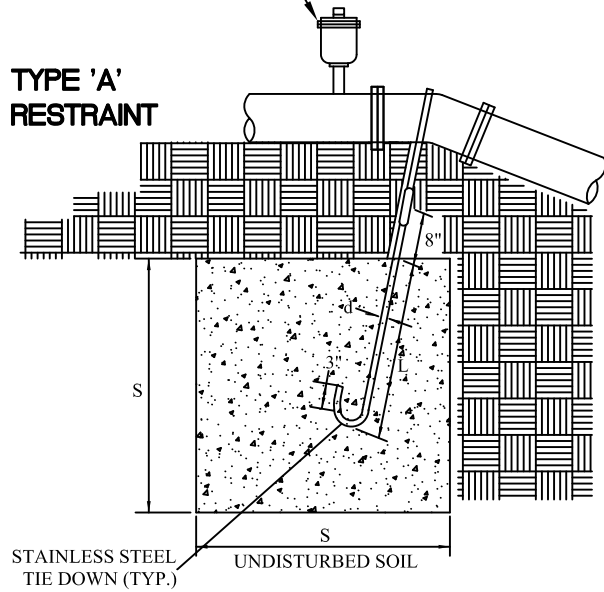
			DRAWN:
			DATE:
DATE	REVISIONS	BY	

**DIRECT BEARING THRUST  
BLOCKS / TIE DOWN RESTRAINTS**

STANDARD  
DRAWING  
**2006**

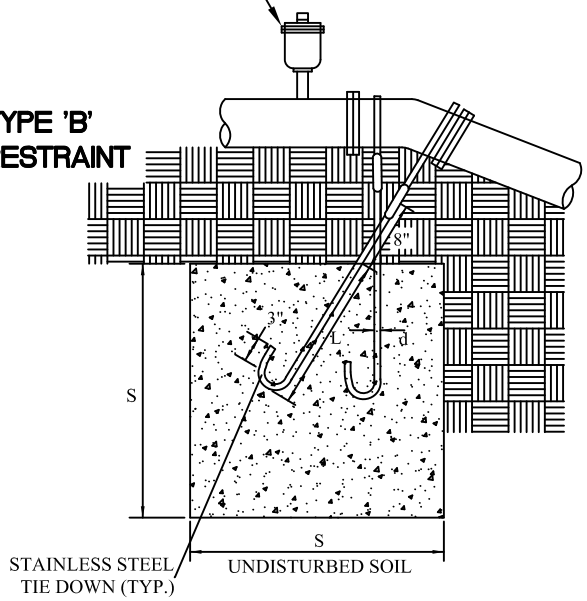
2" COMBINATION AIR & VACUUM VALVE AND AIR RELEASE VALVE WHEN LOOP IS REQUIRED

**TYPE 'A' RESTRAINT**



2" COMBINATION AIR & VACUUM VALVE AND AIR RELEASE VALVE WHEN LOOP IS REQUIRED

**TYPE 'B' RESTRAINT**



NOT TO SCALE

**TYPE 'A' RESTRAINT**

FOR 11 1/4°-22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	3/4"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	4.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

**TYPE 'B' RESTRAINT**

FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	
20"	45°	26.52	8.95	3/4"	4.0
				3/4"	
24"	45°	37.82	10.07	3/4"	4.0
				3/4"	
30"	45°	58.26	11.63	3/4"	4.0
				3/4"	

PREPARED BY: \_\_\_\_\_



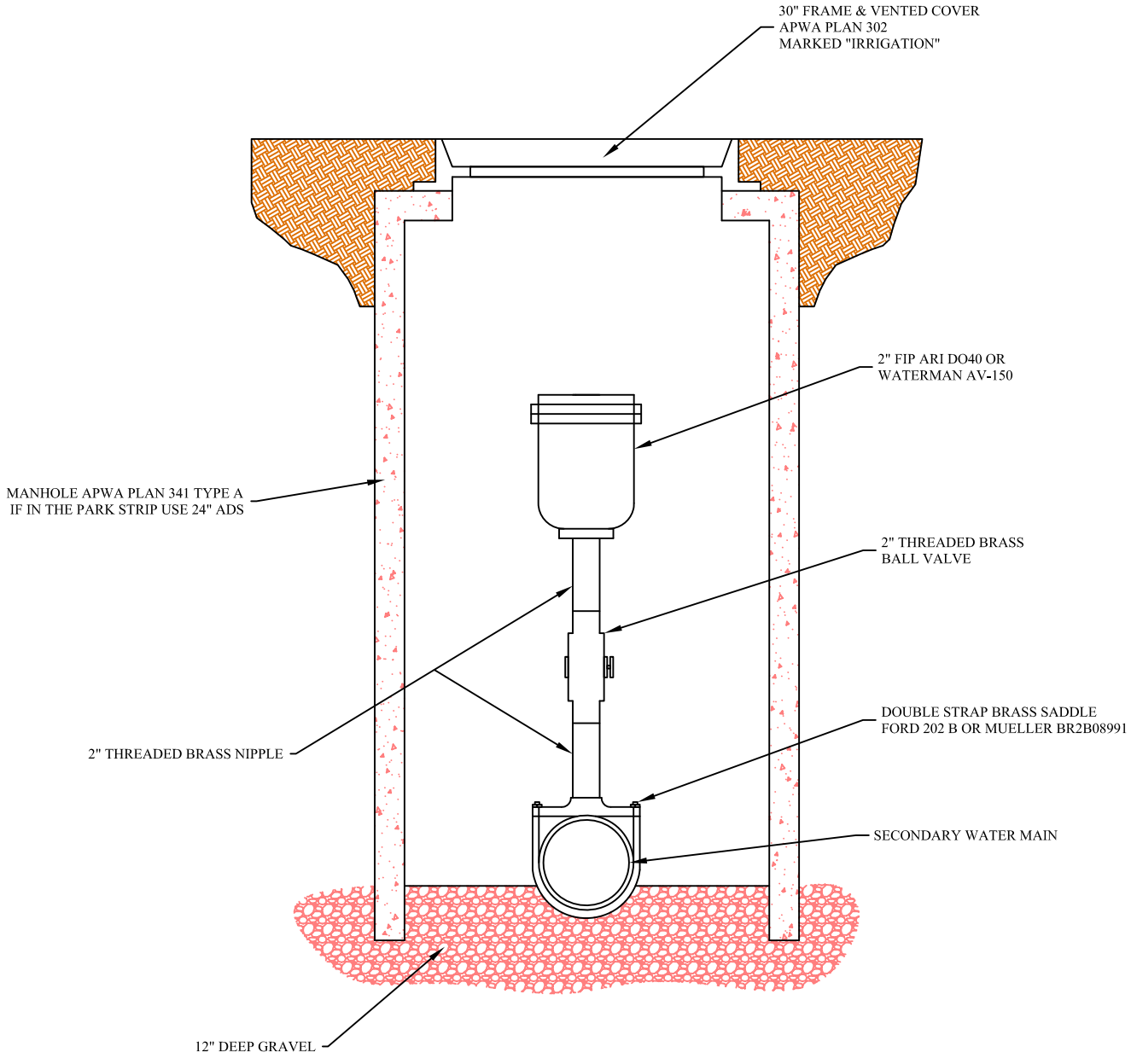
**SOUTH JORDAN CITY**

			DRAWN:
			DATE:
DATE	REVISIONS	BY	

**TIE DOWN THRUST RESTRAINTS**

STANDARD DRAWING  
**2007**



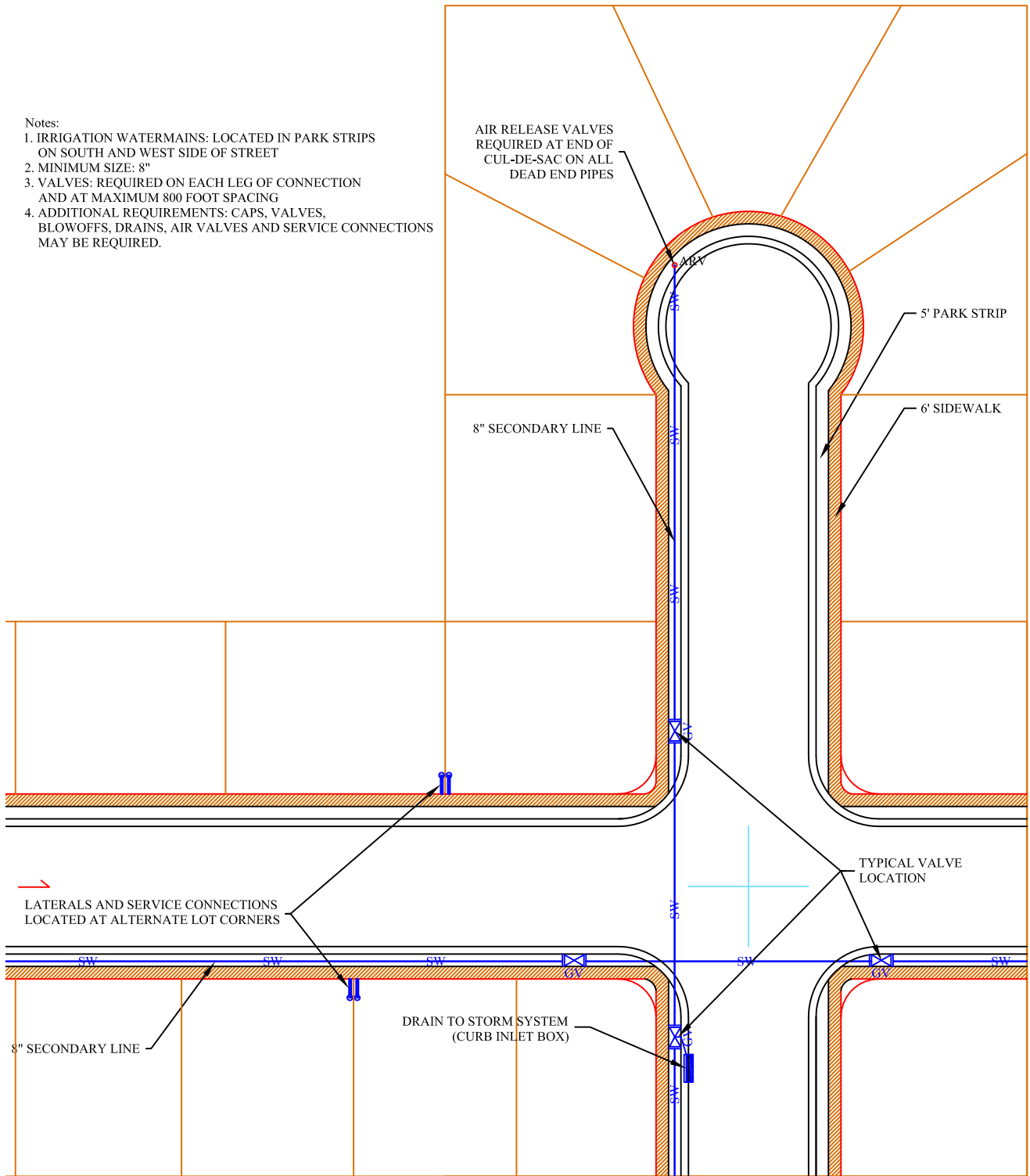


NOT TO SCALE



<b>SOUTH JORDAN CITY</b>				
		DRAWN: <b>AP</b>	<b>SECONDARY WATER 2" AIR/VACUUM RELEASE VALVE</b>	STANDARD DRAWING <b>2010</b>
		DATE: <b>02/08</b>		
DATE	REVISIONS	BY		

- Notes:
1. IRRIGATION WATERMAINS: LOCATED IN PARK STRIPS ON SOUTH AND WEST SIDE OF STREET
  2. MINIMUM SIZE: 8"
  3. VALVES: REQUIRED ON EACH LEG OF CONNECTION AND AT MAXIMUM 800 FOOT SPACING
  4. ADDITIONAL REQUIREMENTS: CAPS, VALVES, BLOWOFFS, DRAINS, AIR VALVES AND SERVICE CONNECTIONS MAY BE REQUIRED.



NOT TO SCALE

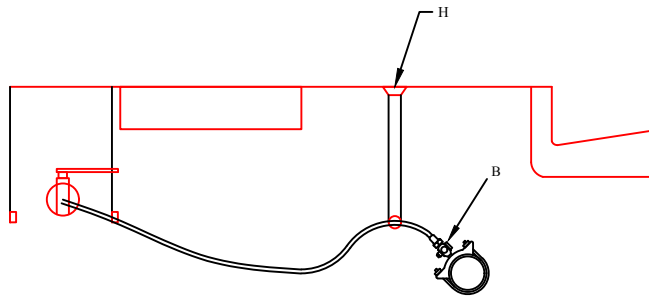
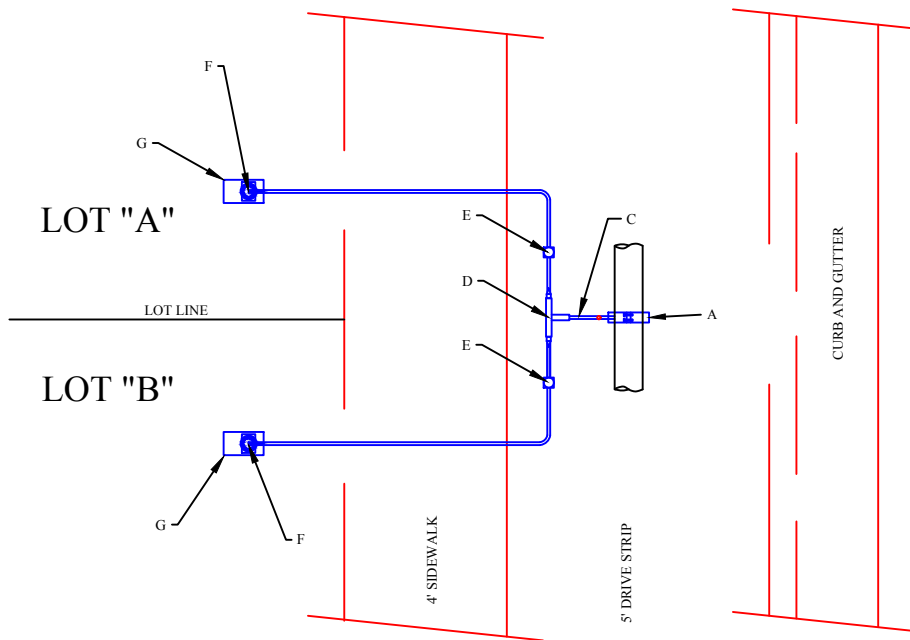


**SOUTH JORDAN CITY**

			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**SECONDARY RESIDENTIAL  
INSTALLATION**

STANDARD  
DRAWING  
**2011**



SIZE	DESCRIPTION	SIZE	COMMENTS
A	TAPPING SADDLE	VARIES	BRASS DOUBLE STRAP SADDLE FORD 202B OR MUELLER BR2B08991
B	2" CTS x MIP ADPT.		FORD C84-72QNL OR MUELLER H15428N
C	POLY PIPE	2"	CTS, PURPLE SDR 9
D	TEE AND 2 x 1 BUSHINGS	2"	BRASS
E	WATER METER	1"	
F	BALL VALVE	1"	BALVE VALVE w/ HANDLE
G	SERVICE BOX	12" x 18"	IRRIGATION CONTROL VALVE BOX CARSON 1419-B-12
H	WATER METER BOX		FORD METER BOX LYLBB111-444-C16171-001-NL

NOT TO SCALE

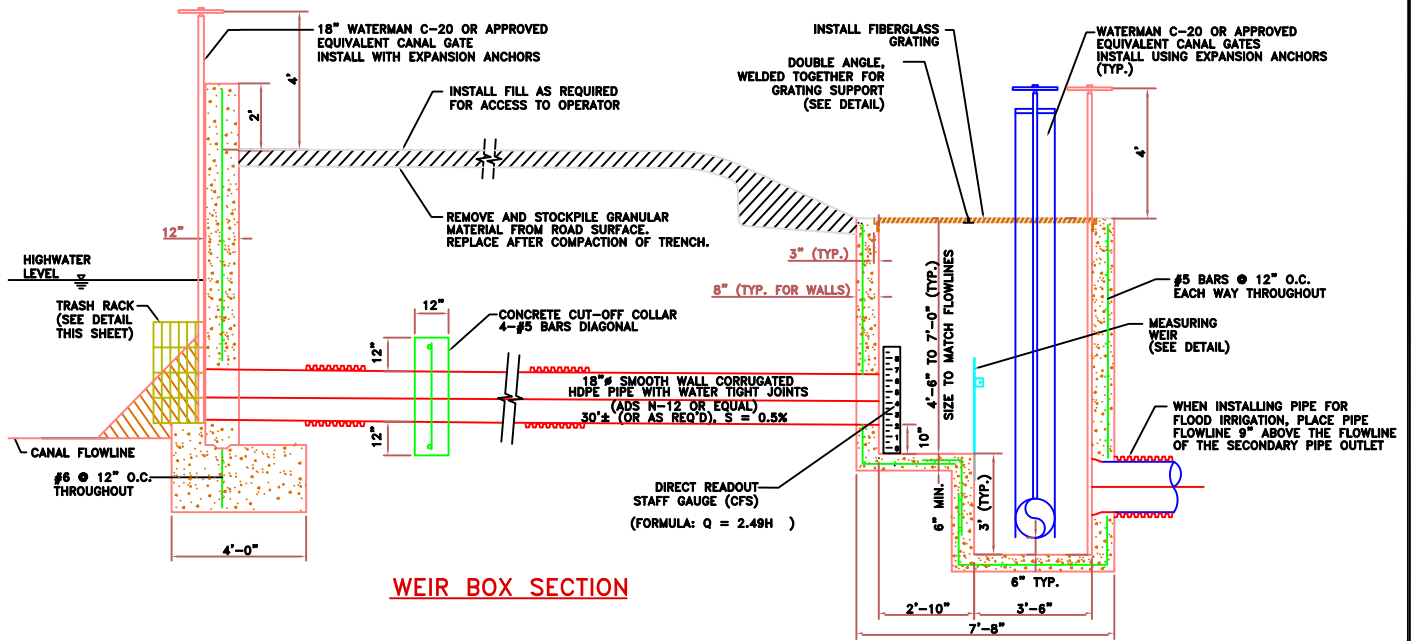


**SOUTH JORDAN CITY**

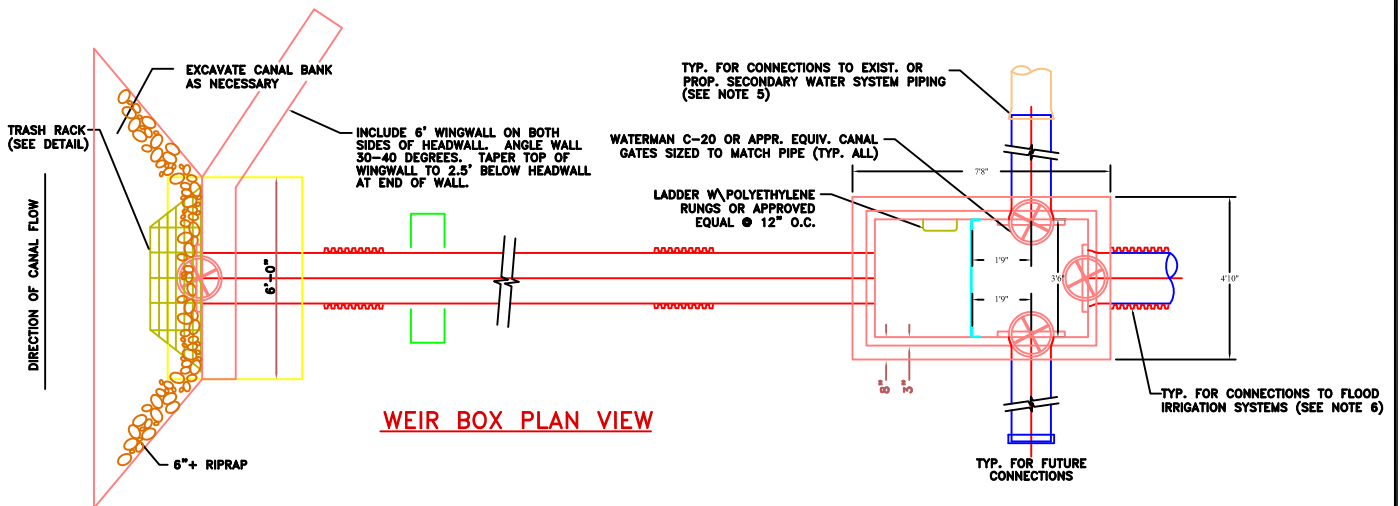
DATE	REVISIONS	BY	02/08

**SECONDARY WATER  
SERVICE CONNECTION**

STANDARD  
DRAWING  
**2012**



**WEIR BOX SECTION**



**WEIR BOX PLAN VIEW**

NOT TO SCALE

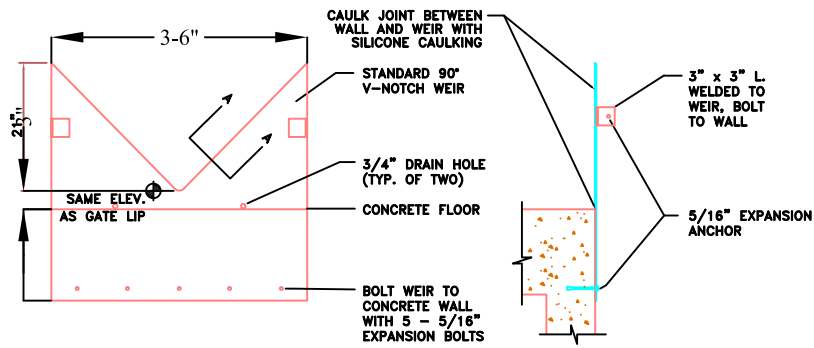


**SOUTH JORDAN CITY**

DATE	REVISIONS	BY	DRAWN: TB
			DATE: 11/07

**PRESSURE IRRIGATION  
CANAL GATE AND WEIR BOX**

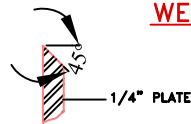
STANDARD  
DRAWING  
**2014**



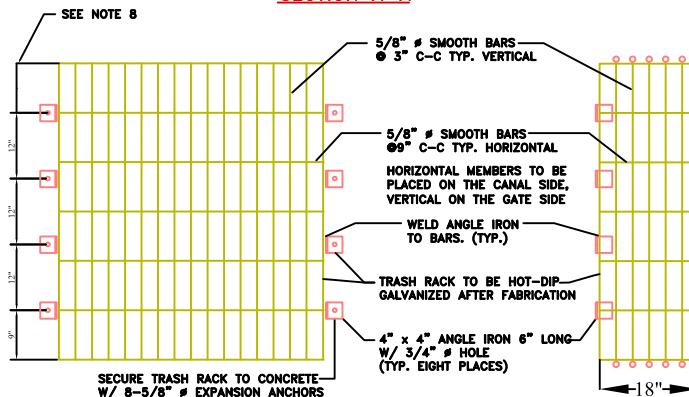
**WEIR FRONT VIEW**

**WEIR SIDE VIEW**

**NOTE:**  
WEIR TO BE HOT-DIP GALVANIZED AFTER FABRICATION



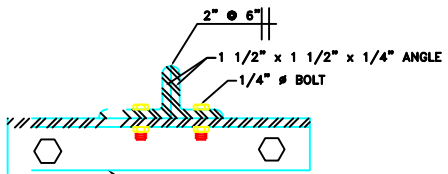
**SECTION A-A**



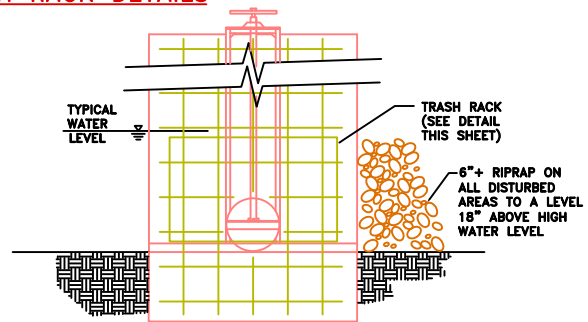
**FRONT VIEW**

**SIDE VIEW**

**TRASH RACK DETAILS**



**DOUBLE-ANGLE GRATING SUPPORT DETAIL**

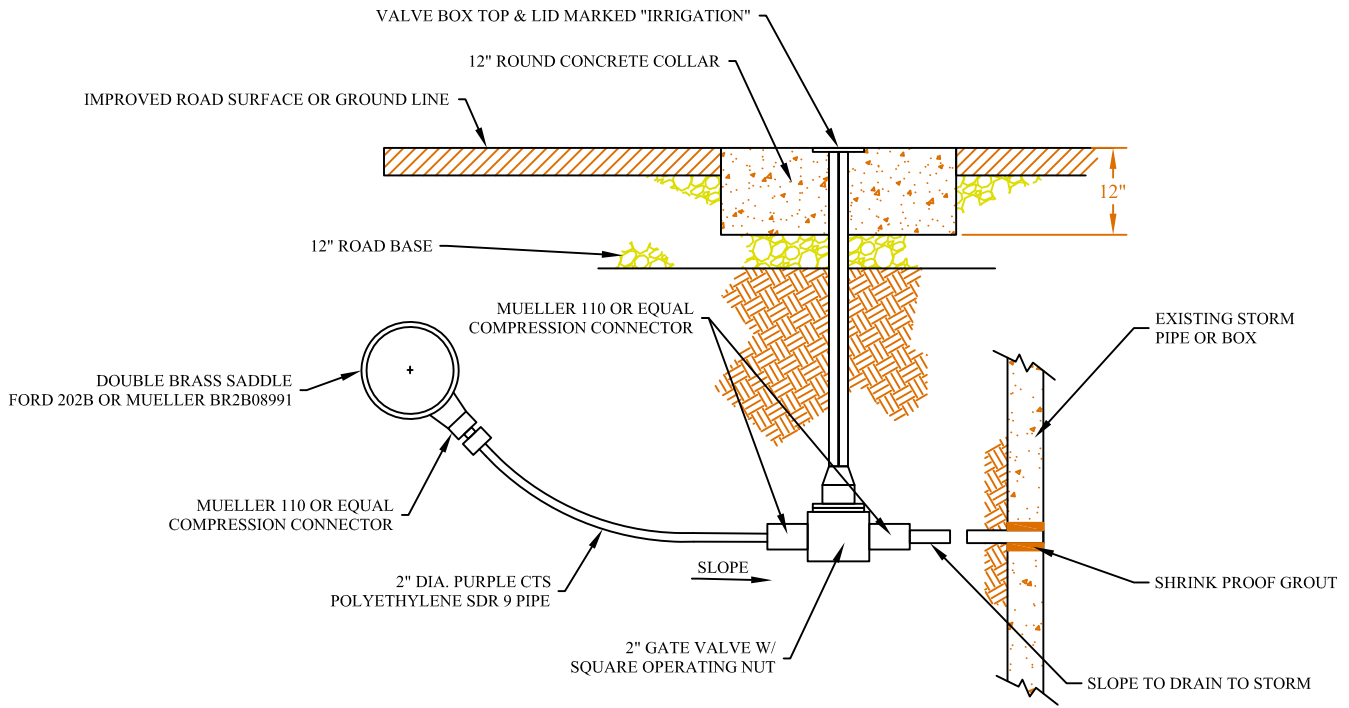


**SLIDE GATE DETAIL**  
N.T.S.

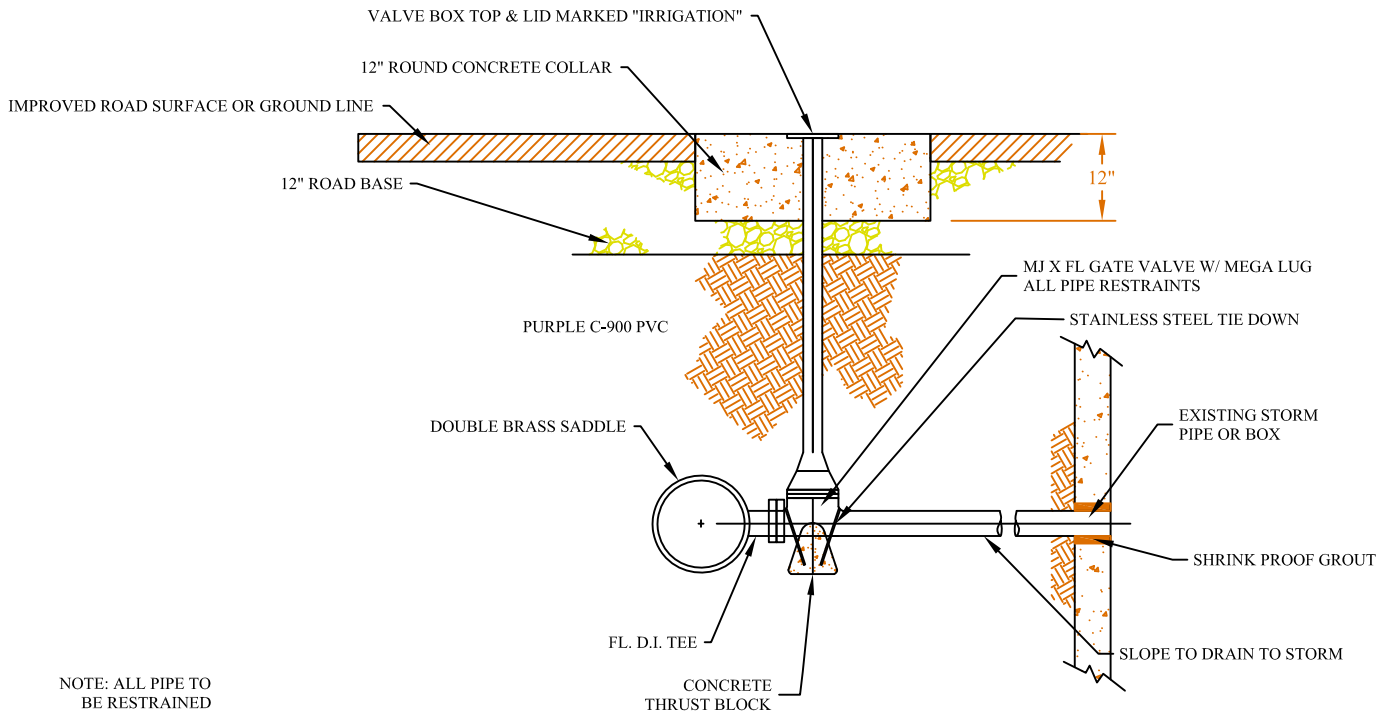
NOT TO SCALE



<b>SOUTH JORDAN CITY</b>			
		DRAWN: TB	<b>PRESSURE IRRIGATION CANAL GATE AND WEIR BOX</b>
		DATE: 11/07	
DATE	REVISIONS	BY	<b>STANDARD DRAWING 2015</b>



**2" DRAIN VALVE DETAIL**  
NOT TO SCALE



NOTE: ALL PIPE TO BE RESTRAINED

**4" AND LARGER DRAIN VALVE DETAIL**  
NOT TO SCALE

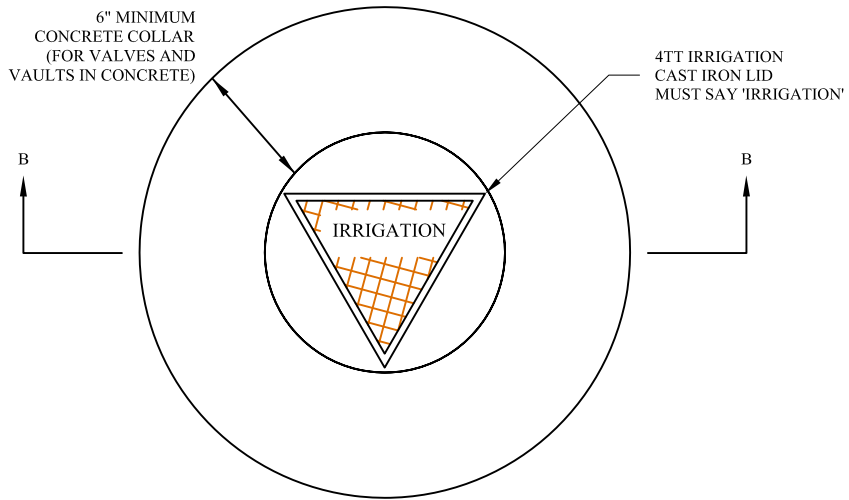


**SOUTH JORDAN CITY**

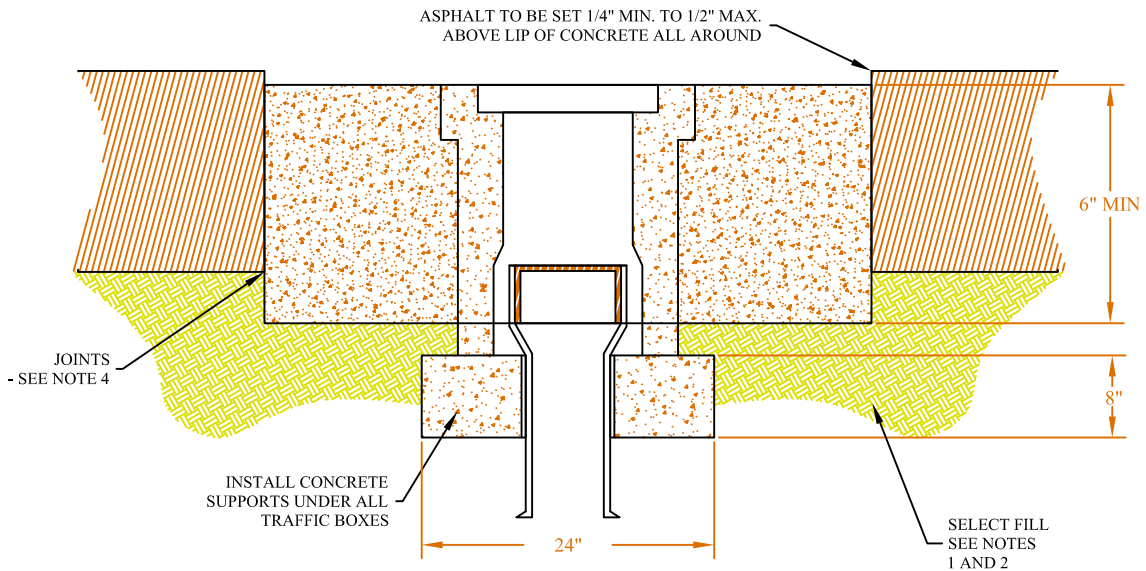
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			DATE: <b>02/08</b>
DATE	REVISIONS	BY	

**2" AND 4" DRAIN VALVE DETAIL**

STANDARD  
DRAWING  
**2016**



**PLAN VIEW**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE

**NOTES**

1. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
2. SELECT FILL: USE UNTREATED BASE COURSE GRADE 3/4" MAXIMUM PER SPECIFICATONS. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
3. CONCRETE: CLASS 4,000. APPLY A SEALING/COURING COMPOUND PER SPECIFICATONS.
4. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE SURFACES. PROVIDE CONCENTRIC CIRCLE CUT. CLEAN EDGES OF ALL DIRT, OIL AND LOOSE DEBRIS.

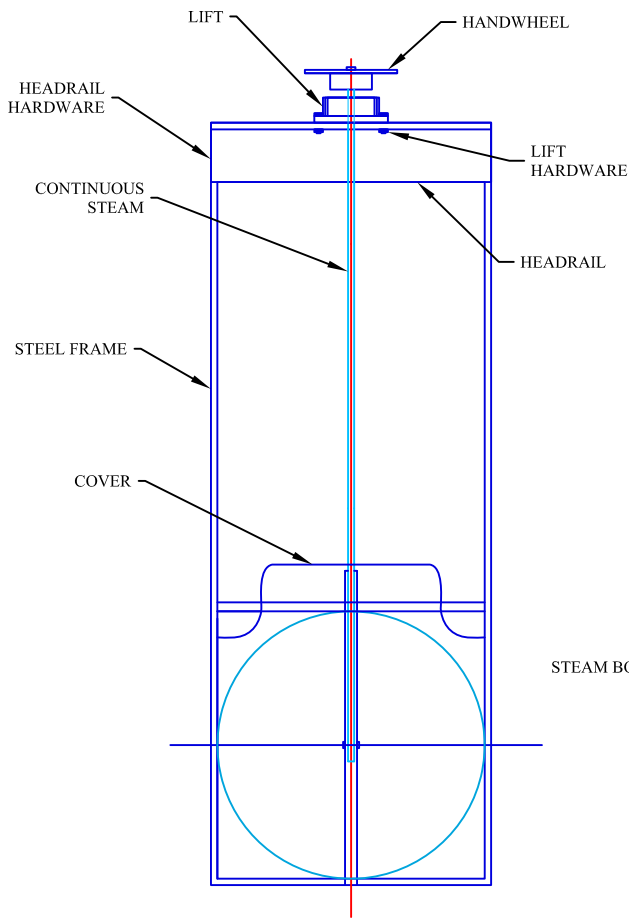


**SOUTH JORDAN CITY**

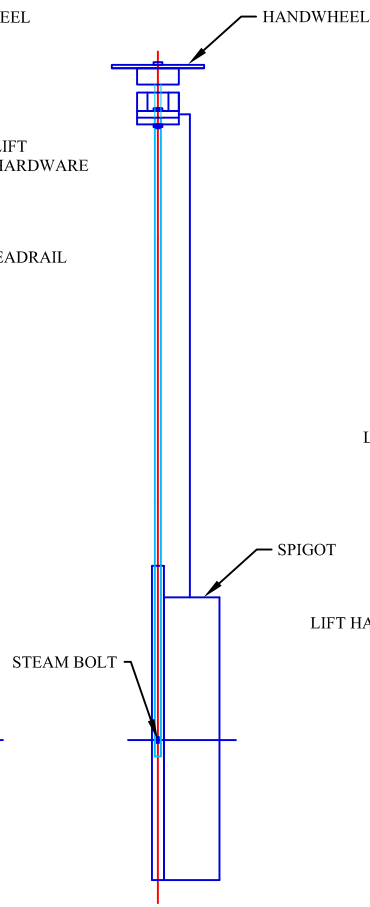
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**COVER COLLAR  
(IN PAVEMENT)**

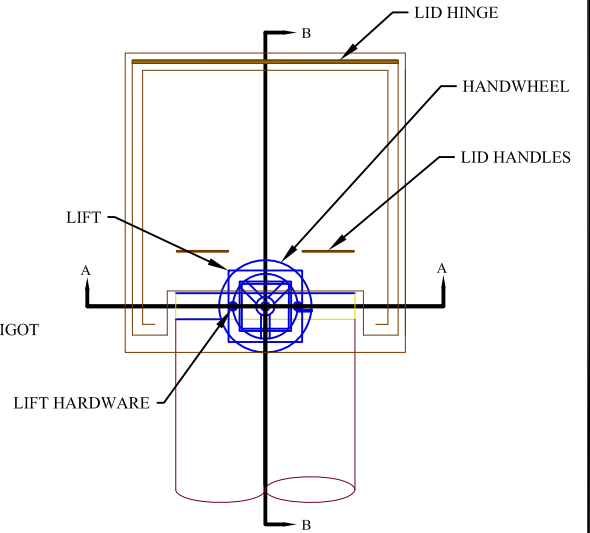
STANDARD  
DRAWING  
**2017**



**VIEW A**  
NOT TO SCALE



**VIEW B**  
NOT TO SCALE



**PLAN VIEW**  
NOT TO SCALE

**NOTES**

1. MANUFACTURER: WATERMAN INDUSTRIES, INC.
2. MATERIAL: ALUMINUM OR STAINLESS STEEL
3. IRRIGATION COMPANY MUST APPROVE.

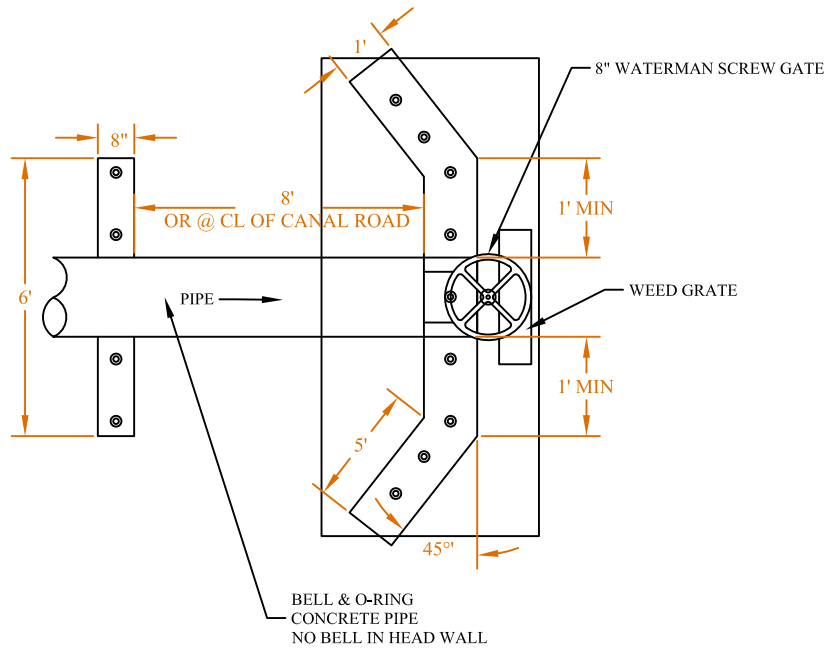


**SOUTH JORDAN CITY**

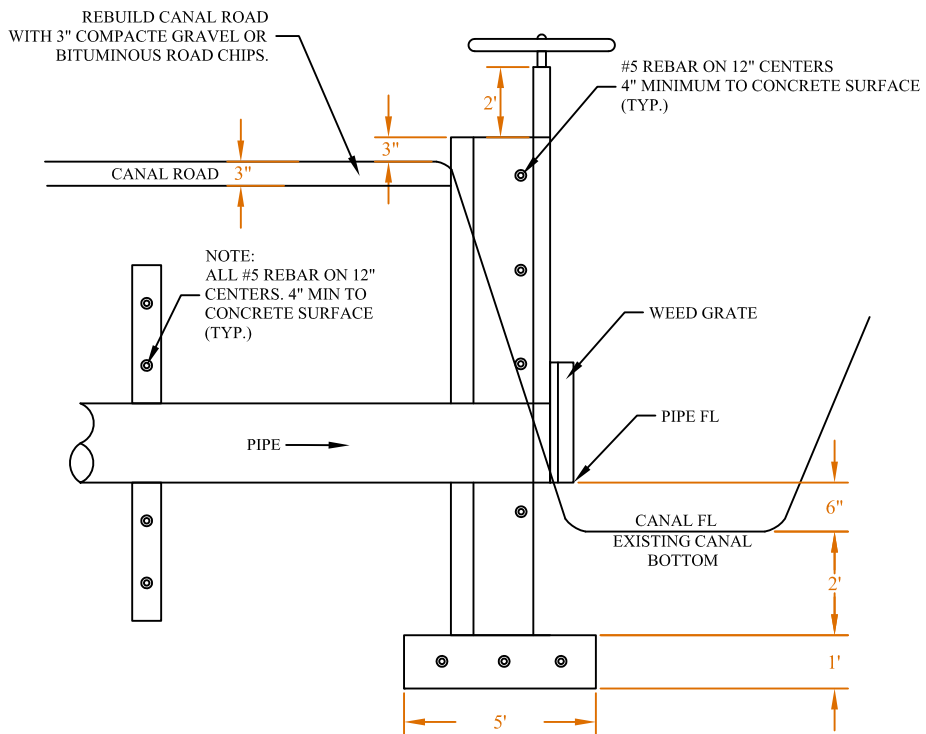
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			DATE: 02/08
DATE	REVISIONS	BY	

**IRRIGATION SLIDE GATE  
DETAIL**

STANDARD  
DRAWING  
**2020**



**TOP VIEW**  
NOT TO SCALE



**SIDE VIEW**  
NOT TO SCALE

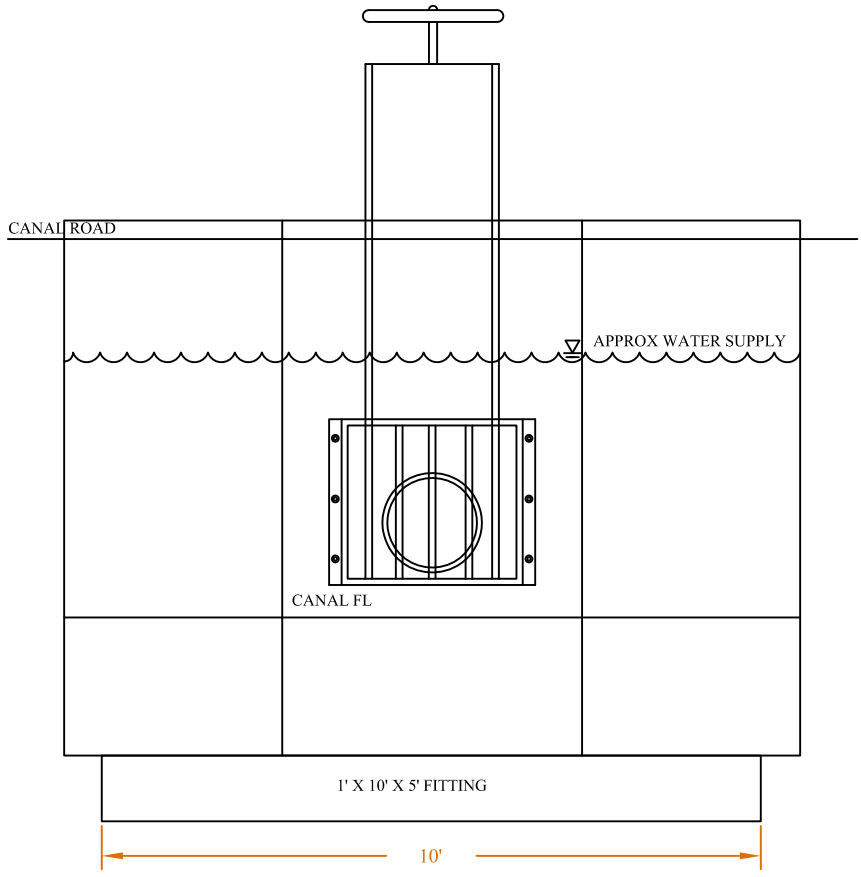


**SOUTH JORDAN CITY**

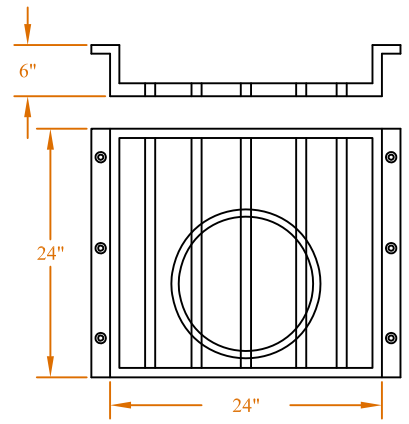
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**HEADWALL DETAIL**

STANDARD  
DRAWING  
**2021**



**FRONT VIEW**  
NOT TO SCALE



**WEED GRATE**  
NOT TO SCALE

**NOTES**

1. ALL ATTACHING BOLTS ARE TO BE 5/8" STAINLESS STEEL.
2. BACKFILL WITH IMPENETRABLE CLAY.
3. ALL MATERIALS AND WORK TO MEET UDOT STANDARDS 96% COMPACTION.
4. CONTROL OUTLET VELOCITY IN ORDER TO KEEP WATER FROM RUNNING OVER EXISTING CONCRETE BOX.
5. INSURANCE. THE CONTRACTOR WORKING ON THE CANAL SHALL OBTAIN AND MAINTAIN DURING THE CONSTRUCTION PERIOD, GENERAL LIABILITY INSURANCE IN THE AMOUNT OF AT LEAST \$1,000,000 (ONE MILLION DOLLARS FOR INJURY, DEATH, OR PROPERTY DAMAGE ARISING OUT OF A SINGLE OCCURRENCE AND WORKMAN'S COMPENSATION INSURANCE AS REQUIRED BY THE STATE OF UTAH. THE COMPANY SHALL REQUIRE THEIR INSURANCE
6. ALL WORK SHALL START AFTER OCTOBER 15TH AND BE COMPLETED BEFORE APRIL 1ST.

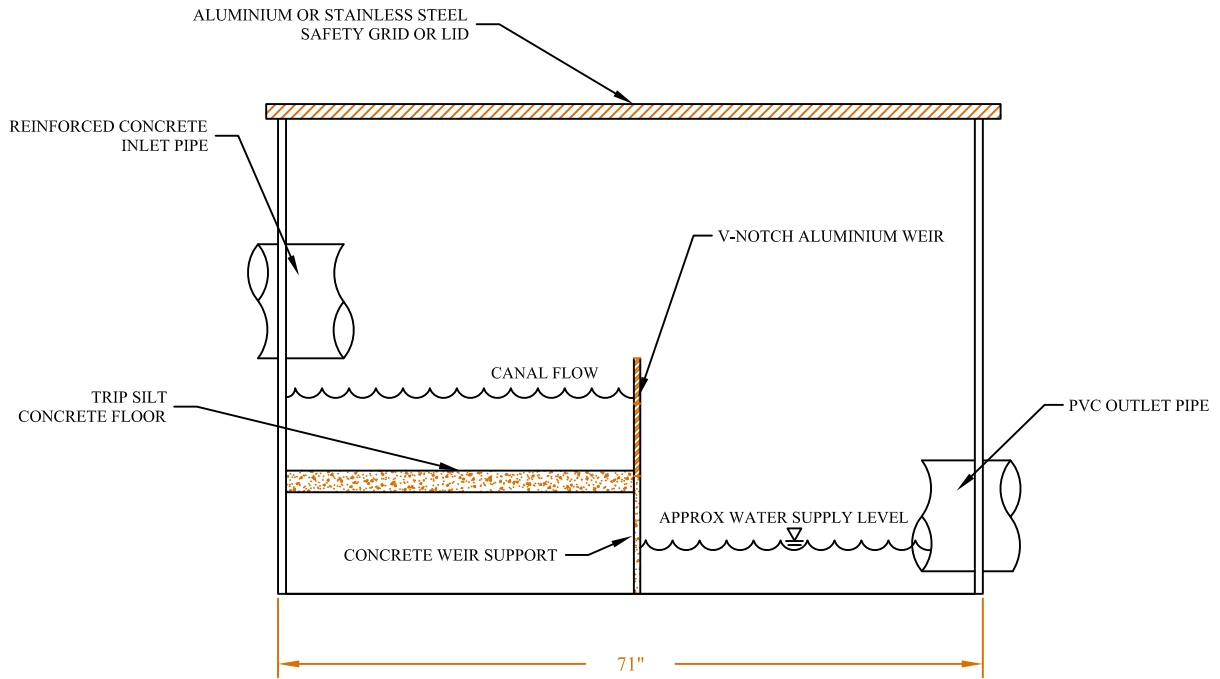


**SOUTH JORDAN CITY**

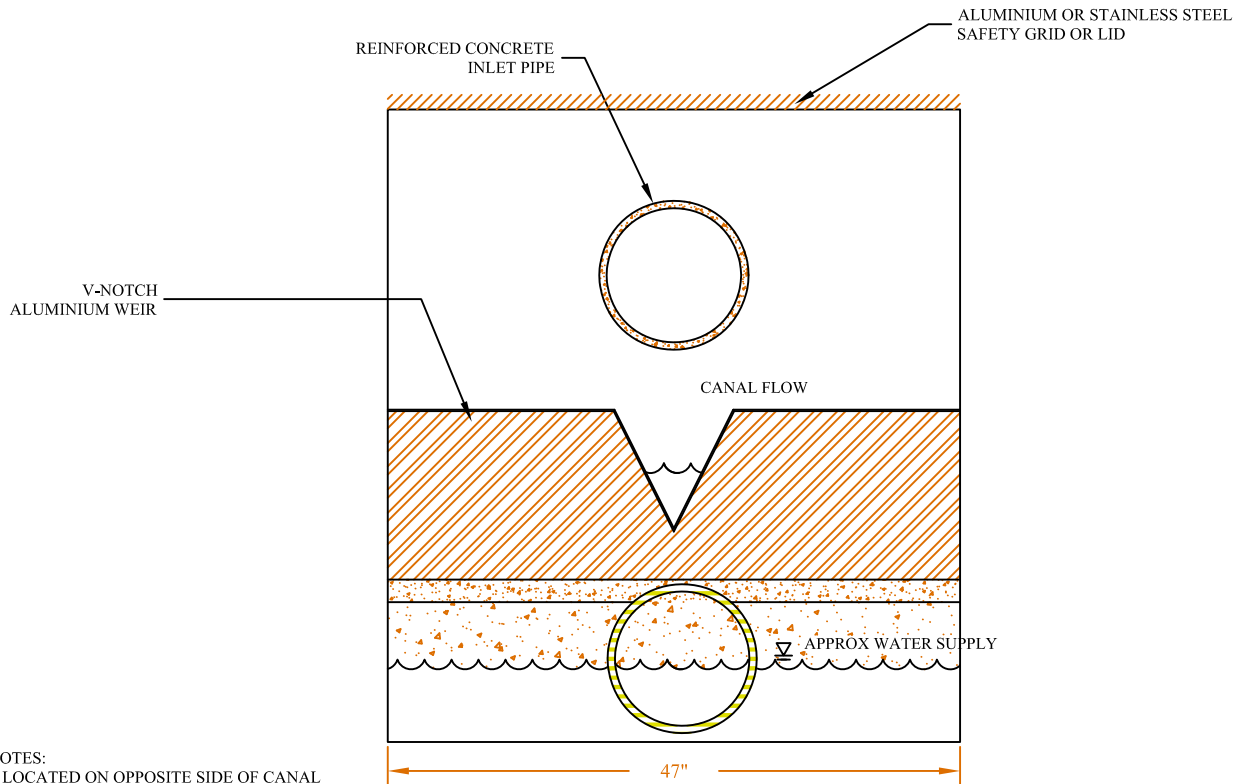
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**HEADWALL DETAIL**

STANDARD  
DRAWING  
**2022**



**SIDE VIEW**  
NOT TO SCALE



**FRONT VIEW**  
NOT TO SCALE

NOTES:  
1. LOCATED ON OPPOSITE SIDE OF CANAL ROAD AS THE WEIR IS NOT ALLOWED IN BACKYARDS.



**SOUTH JORDAN CITY**

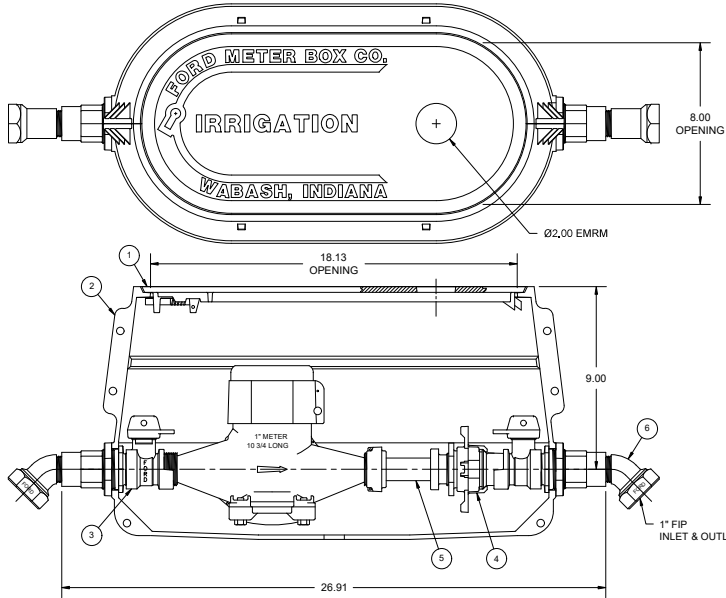
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**SILT TRAP BOX DETAIL**

STANDARD  
DRAWING  
**2023**

ITEM	DESCRIPTION	QTY	MATERIAL	CATALOG NUMBER
1	LOCKING LID	1	CAST GRAY IRON	LYL-4-IRR-T
2	BOX	1	CAST GRAY IRON	LYBB-4
3	BALL VALVE	2	CAST NO-LEAD BRASS	YBBV13-344W-NL
4	EXPANSION CONNECTION	1	CAST NO-LEAD BRASS	EC-4-NL
5	SPACER	1	COPPER	SPACER-4-DV-NL
6	ELL	2	CAST NO-LEAD BRASS	LA81-44-NL

C16171-001



**NOTES:**

BRASS INLET AND OUTLET VALVES ARE ASSEMBLED TO THE BOX.  
(EXPANSION CONNECTION AND SPACER ARE AWT, PACKED  
IN A CARTON, AND SHIPPED INSIDE THE YOKEBOX.)

PROPOSAL  
CIDS: 16171 #1  
DATE: 10/15/19  
INITIAL: RLR

LYLBB111-444-C16171-001-NL

ASSY, 1" LONG YOKEBOX, IRRIGATION, EMRM,  
1" FIP ANGLED INLET & OUTLET,  
LESS CHECK VALVE

TOLERANCES:	UNLESS OTHERWISE SPECIFIED	PATTERN:
XXX ± N/A		CORE(S):
XX ± N/A		EST WEIGHT: --- LB
XXX ± N/A		SIZE: B
± N/A		DRAWING NO: C16171-001
		SCALE: 1:4

THE FORD METER BOX CO., INC.  
Wabash, Indiana 46992 U.S.A.

REV	DATE	CIDS	REVISION DESCRIPTION	KLP DWN BY	RLR APPY BY
1	10/11/2019	16171	PROPOSAL #1		

PREPARED BY: \_\_\_\_\_

SOUTH JORDAN CITY

DATE	REVISIONS	BY

SECONDARY METER BOX

STANDARD  
DRAWING  
2024



# **STORM DRAIN**

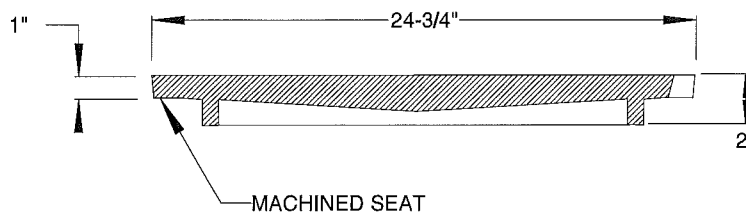
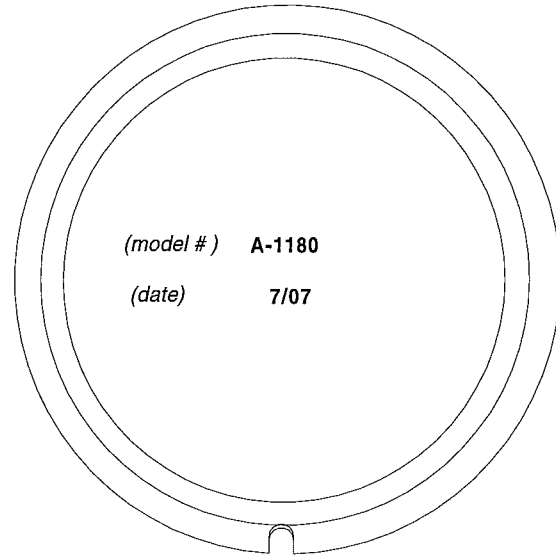
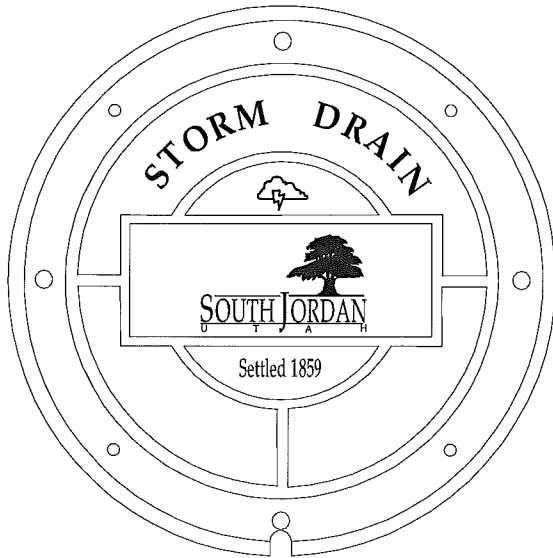
**A-1180**



**SOUTH JORDAN**  
U T A H

# Storm Drain Manhole Cover

(Platen-bottom cover)



COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

**CAST IRON** conforms to  
ASTM A-48-93 Class 35B  
Meets H-20 Wheel Loading

**D&L model No. A-1180**

**D&L Foundry & Supply**

Designation:  
A-1180

Date:  
July 2007

Prepared by: Jesso Walker  
D&L Foundry & Supply Inc. (not to scale)

CA Sales: (707) 557-4525 Fax: (707) 557-4655  
UT Sales: (801) 785-5015 Fax: (801) 785-0835  
WA Sales: (509) 765-7952 Fax: (509) 765-8124

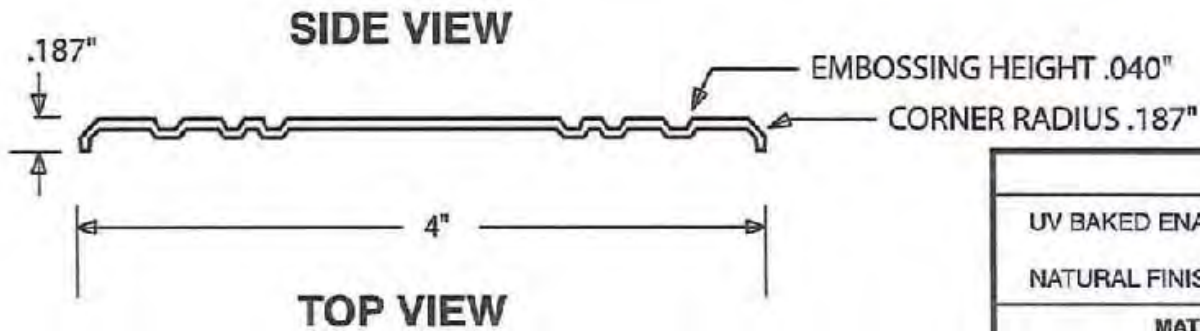


STORM DRAIN



SOUTH JORDAN  
U T A H

Settled 1859




FINISH		
UV BAKED ENAMEL	-	1-2 COLOR OPTION
NATURAL FINISH		SAND BLASTED FRONT & REAR FOR PAINT & ADHESIVE BONDING
MATERIAL	THICKNESS	WEIGHT
304 ANNEALED STAINLESS STEEL	.062"	.218 LBS.
BRASS	.062"	.250 LBS.
ALUMINUM	.062"	.082 LBS.
ANODIZED ALUMINUM	.062"	.082 LBS.
LEGIBILITY WARRANTY		
STAINLESS STEEL & BRASS	-30 YEARS	
ALUMINUM & ANODIZED	-15 YEARS	
U.S. & FOREIGN PATENTS PENDING		
OPTIONS		
SQUARE HOLE: 1/4" X 1/4"		
SERIAL NOS.: .250" HIGH, MAX. 6 DIGITS		
ENGRAVING COPY: 3 LINES, 30 CHARACTERS		

## ART APPROVAL FORM

This is our interpretation of your artwork requirements. Review for accuracy and note any changes you wish to make before signing this approval form.

NOTE: This art approval request form is required to begin the manufacturing process.

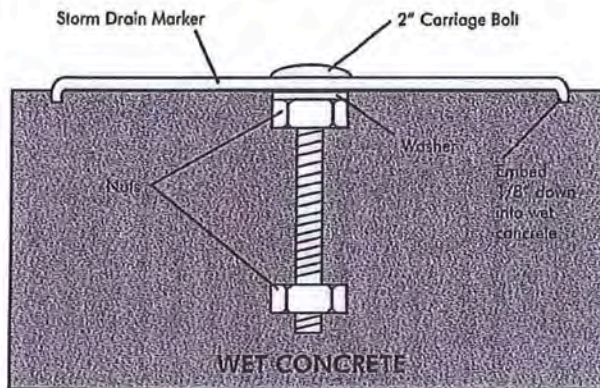
Approved as is	Submit new art with changes	Date

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALMETEK INDUSTRIES, INC., ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALMETEK INDUSTRIES, INC. IS PROHIBITED.	Customer:	SOUTH JORDAN CITY	SHEET 1 OF 1 SCALE 1:1		 1-800-248-2080 Fax: 908-850-9618						
	Job Name:	STDN-9131-SSP	<table border="1"> <thead> <tr> <th colspan="2">TOLERANCE</th> </tr> </thead> <tbody> <tr> <td>FRACTION</td> <td>± 1/8"</td> </tr> <tr> <td>.XX</td> <td>± .06"</td> </tr> <tr> <td>.XXX</td> <td>± .005"</td> </tr> </tbody> </table>			TOLERANCE		FRACTION	± 1/8"	.XX	± .06"
TOLERANCE											
FRACTION	± 1/8"										
.XX	± .06"										
.XXX	± .005"										
Date:	AUGUST 29, 2007	Drawn by:	DATE	REV. # 2	DATE 11/16/07	REV. #	DATE	REV. #	DATE		

# Theft-Resistant Permanent Installations for Storm Drain Markers 30-Year Warranty\*

For Stainless, Brass, Aluminum and Anodized Aluminum

## WET CONCRETE INSTALLATION

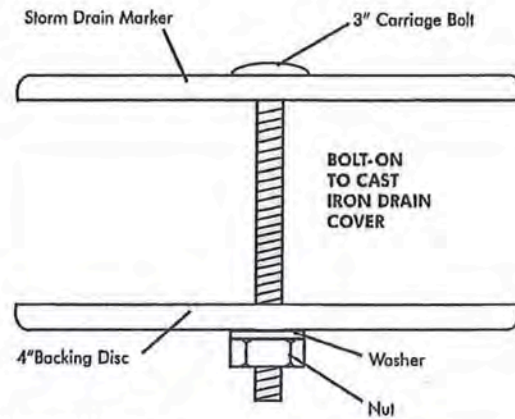


### HARDWARE:

#### CB-2" Set:

- 1- 2" 1/4"-20 SS Carriage Bolt
- 1- 5/16" x 5/8" O.D. x .062" thick SS Washer
- 2- 1/4"-20 UNC SS Nuts

## BOLT-ON INSTALLATION



### HARDWARE:

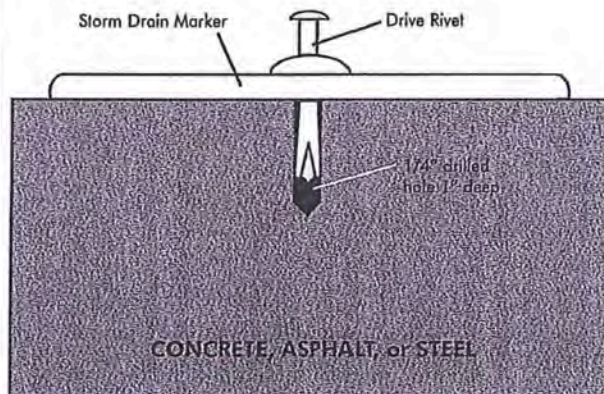
#### CB-3" Set:

- 1- 4" SS Backing Disc
- 1- 3" x 1/4"-20 SS Carriage Bolt
- 1- 5/16" x 5/8" O.D. x .062" thick SS Washer
- 1- 1/4"-20 UNC SS Nut

**NOTE: All 4" Discs have square hole for carriage bolt insertion**

\* After the appropriate installation, if the Marker is stolen or missing, Almetek will replace the Marker and hardware at no cost.

## SURFACE MOUNT INSTALLATION

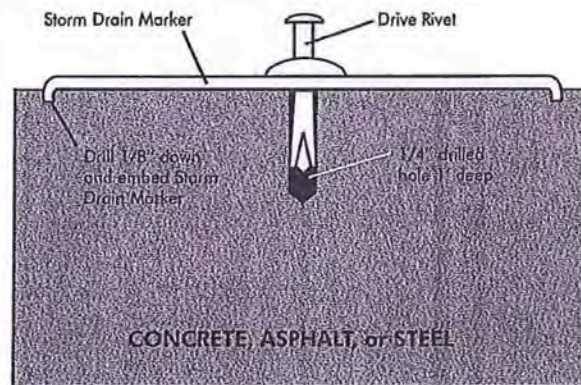


### HARDWARE:

- 1-DR250-1/4" x 3/4" Drive Rivet-STD
- 1-DB250-1/4" Carbide Drill Bit
- Hammer (not supplied)
- optional: adhesive

## SUB-SURFACE MOUNT INSTALLATION

PATENT PENDING

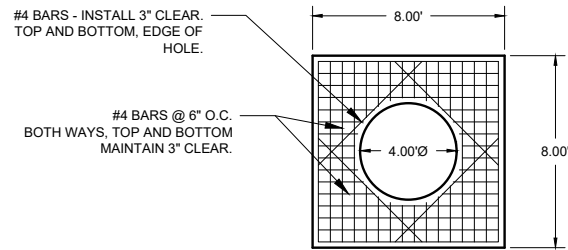


### HARDWARE:

- 1-DR250-1/4" x 3/4" Drive Rivet- STD
- 1-CDB-4-Carbide Drill Bit, Anchor, Pilot (not shown)
- Hammer (not supplied)
- optional: adhesive



Almetek Industries, Inc., 2 Joy Drive, Hackettstown, NJ 07840 • 908-850-9700 • Fax: 908-850-9618  
www.almetek.com • email: csr@almetek.com



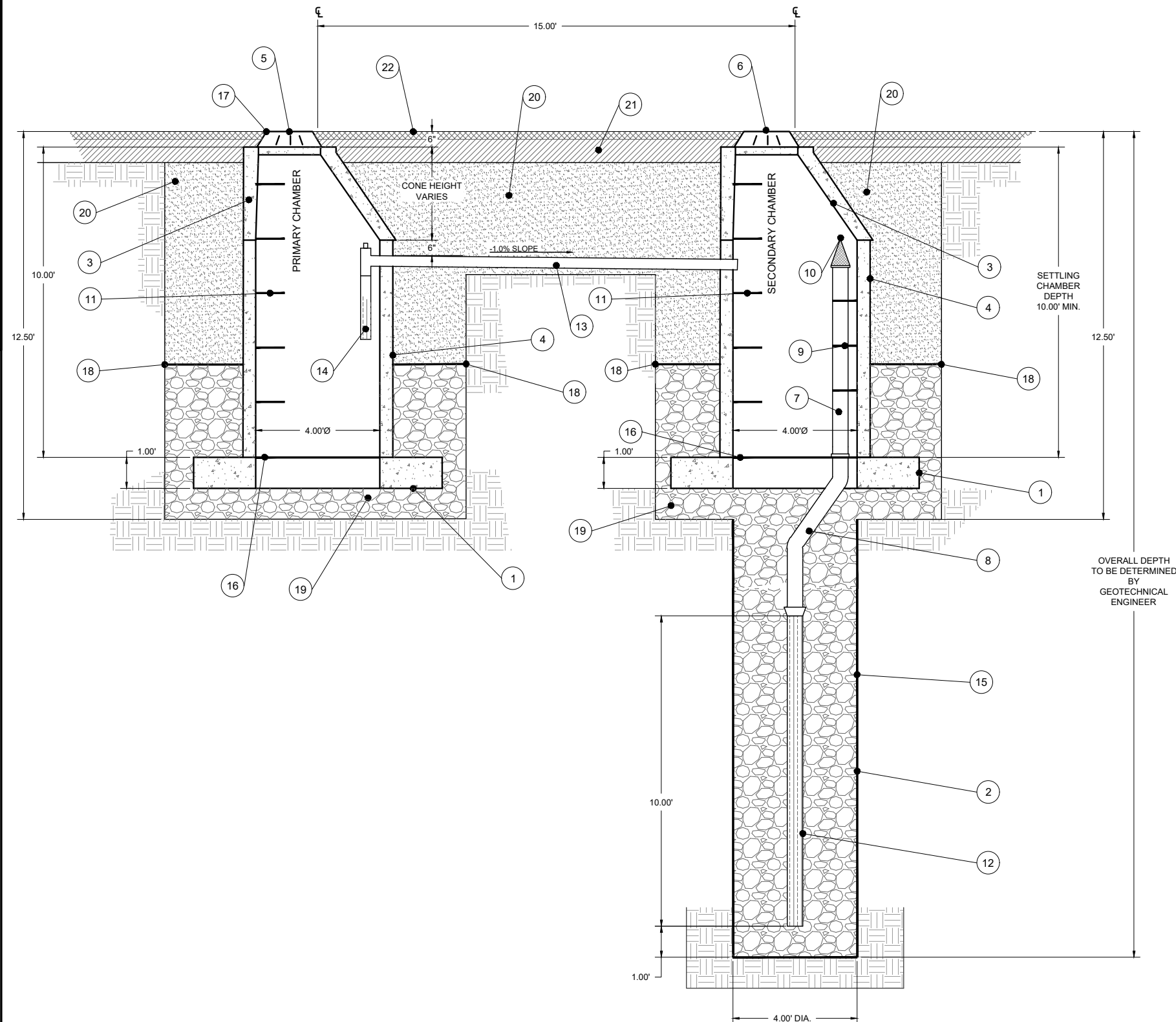
**CONCRETE FOOTING**

**KEYED NOTES**

- 1 8-FT X 8-FT X 1-FT REINFORCED CONCRETE FOOTING (SEE DETAIL)
- 2 MIN. 4" DRILLED SHAFT
- 3 MODIFIED FLAT-BOTTOM MANHOLE CONE
- 4 CONCRETE LINER, 4000 PSI 48" I.D. AND 54" O.D., CENTER IN HOLE WITH 2-FT X 2-FT OPENING IN BOTTOM FOR DRAINAGE
- 5 MIN. 30" DIA BOLTED CAST IRON RING AND GRATE
- 6 MIN. 30" DIA BOLTED CAST IRON RING AND SOLID SOUTH JORDAN CITY STORM DRAIN COVER
- 7 6" DIA SCH 40 PVC OVERFLOW PIPE
- 8 6" DIA DR-14 FUSED HDPE PIPE
- 9 SUPPORT BRACKET (TYP), FORMED 12 GA STEEL, FUSION BONDED EPOXY COATED
- 10 6" DIA CONE SHAPED SCREEN
- 11 LADDER RUNGS
- 12 6" DIA SLOTTED DR-14 FUSED HDPE PIPE
- 13 4" DIA SCH 40 PVC CONNECTOR PIPE W/ VENTED ANTI-SIPHON INTAKE & FLOW REGULATOR, PIPE TO BE FULLY CAPPED UNTIL BASIN FULLY VEGETATED OR AS APPROVED BY CITY ENGINEER.
- 14 4" DIA 1" LONG SLOTTED SCH 40 PVC INTAKE SCREEN
- 15 NON-WOVEN GEOTEXTILE FABRIC MIRF1 140 NL. OR APPROVED EQUALL. FABRIC TO BE DIAMETER OF HOLE, HELD APPROX 15' OFF THE BOTTOM OF EXCAVATION.
- 16 (2) LAYERS OF NON-WOVEN GEOTEXTILE FABRIC MIRAF1 140 NL. OR APPROVED EQUALL. PLACED AFTER OVERFLOW PIPE HAS BEEN INSTALLED
- 17 FABRIC SEAL, UV RESISTANT GEOTEXTILE. COVER GRATE UNTIL PAVING AND OR LANDSCAPING IS COMPLETE.
- 18 (2) LAYER OF FILTER FABRIC
- 19 1" TO 1-1/2" WASHED ROCK
- 20 A1A TO A2.7 COMPACTED BACKFILL TO 96%
- 21 COMPACTED BASE MATERIAL
- 22 GRADED BASIN, CITY VAC TRUCK ACCESS TO BE PROVIDED AT A MIN HORIZONTAL DISTANCE OF 15' AND NO MORE THAN 8% INCLINE FROM EACH MANHOLE LID

**NOTES**

- 1. PRIMARY CHAMBER REQUIRED ON ALL DRY WELL SYSTEMS.
- 2. NO OUTSIDE PIPE CONNECTIONS TO PRIMARY OR SECONDARY CHAMBERS. ONLY SURFACE DRAINAGE IS ALLOWED
- 3. PERCOLATION TEST TO BE PERFORMED AFTER FINAL INSTALLATION OF DRY WELLS AND LANDSCAPING.



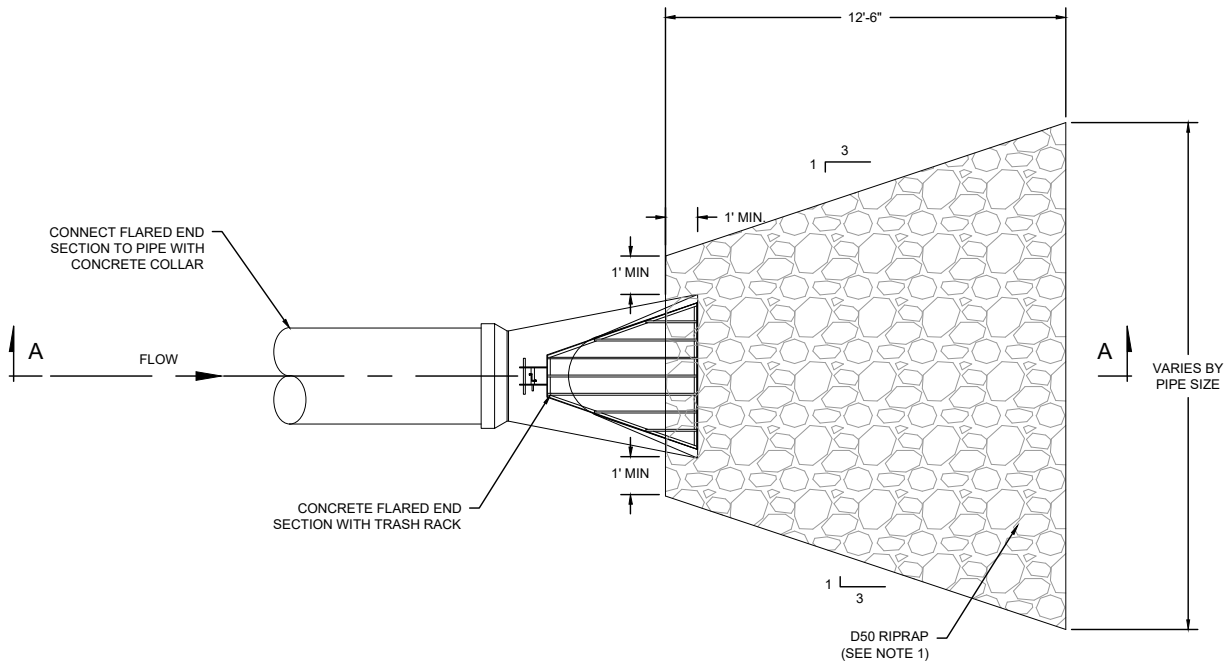
**DRY WELL SYSTEM**

NO.	DATE	REVISION COMMENTS

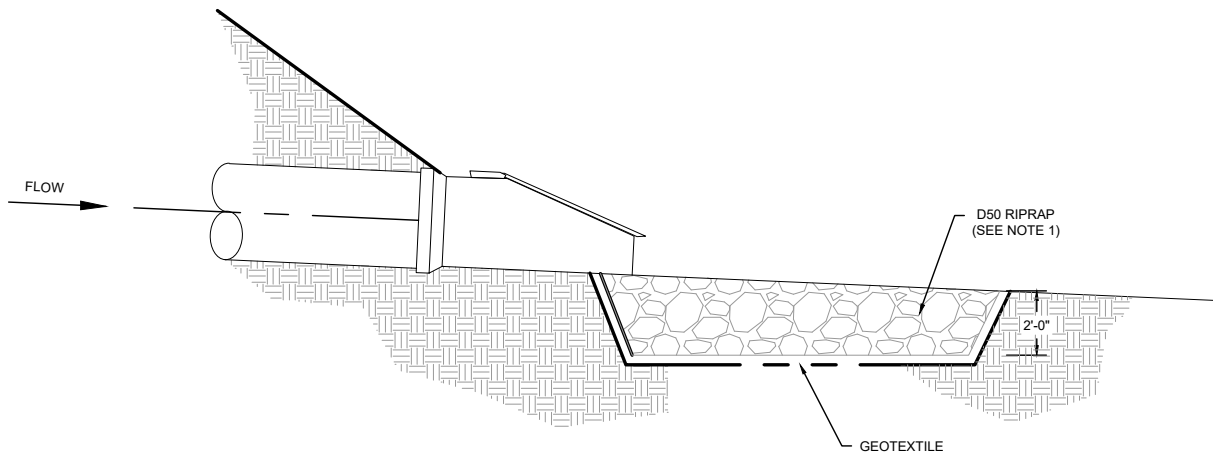


**SOUTH JORDAN CITY  
DRYWELL SYSTEM DETAIL  
AND SPECIFICATIONS**

Project No: \_\_\_\_\_  
 Drawn By: JWH Designed By: JWH  
 File Name: \_\_\_\_\_ Date: 1/7/16  
 Checked By: \_\_\_\_\_



**PLAN**



**SECTION A**

**NOTES**

1. RIPRAP TO BE 12-IN MIN FOR 18-IN PIPE AND 24-IN AND LARGER PIPE TO REQUIRE 18-IN MIN RIPRAP

PREPARED BY: \_\_\_\_\_



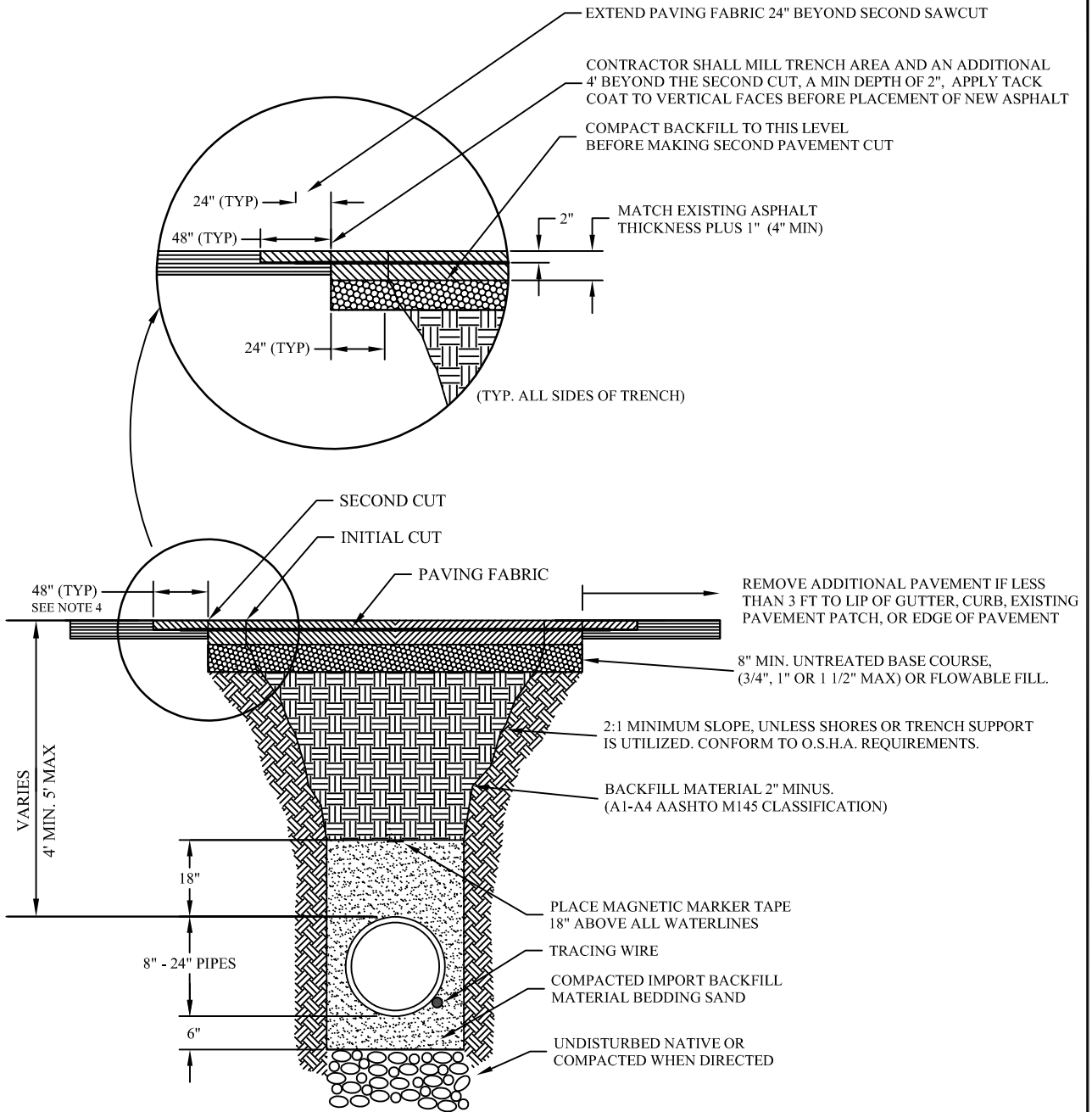
**SOUTH JORDAN CITY**

DATE	REVISIONS	BY	DRAWN:
			JWH
			DATE
			2/21

**RIPRAP APRON DETAIL**

STANDARD  
DRAWING  
**4015**

**STREETS**



**NOTES:**

1. NO SAW CUTS TO END UP IN THE WHEEL PATH
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 4 FT BEYOND THE SECOND CUT OR AS DIRECT BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PAVING FABRIC PER APWA STANDARD ROADWAY PAVEMENT GEOTEXTILE, NON-WOVEN
4. IF THE OCI RATING OF THE ROAD IS BETWEEN 80 AND 100, THE 48" WILL BE INCREASED TO FULL WIDTH OF ROAD, OR AS DETERMINED BY THE CITY ENGINEER OR DESIGNEE.

PREPARED BY: \_\_\_\_\_

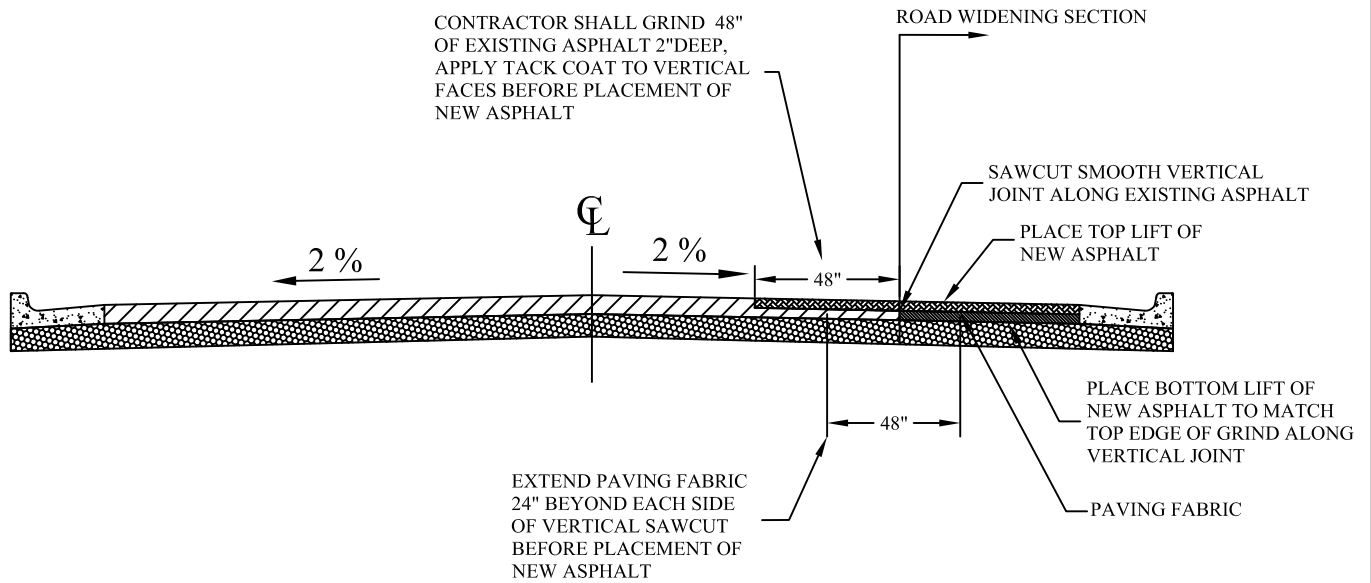


**SOUTH JORDAN CITY**

DATE	REVISIONS	BY	DRAWN:
04/11		JRF	KS
			DATE
			1/06

**TRENCH CROSS SECTION  
TERMINOLOGY & STANDARD SIZES**

STANDARD  
DRAWING  
**3010**



NOTE: PER CITY STREET REPAIR / REPAVING POLICY, IF CONSTRUCTION PLANS DO NOT REQUIRE REMOVAL OF EXISTING ROADWAY TO CENTERLINE CONTRACTOR SHALL JOIN NEW PAVEMENT PER THIS STANDARD

PREPARED BY: \_\_\_\_\_



SOUTH JORDAN CITY

			DRAWN:
			KS
			DATE
			1/06
DATE	REVISIONS	BY	

ROAD WIDENING

STANDARD DRAWING

3012





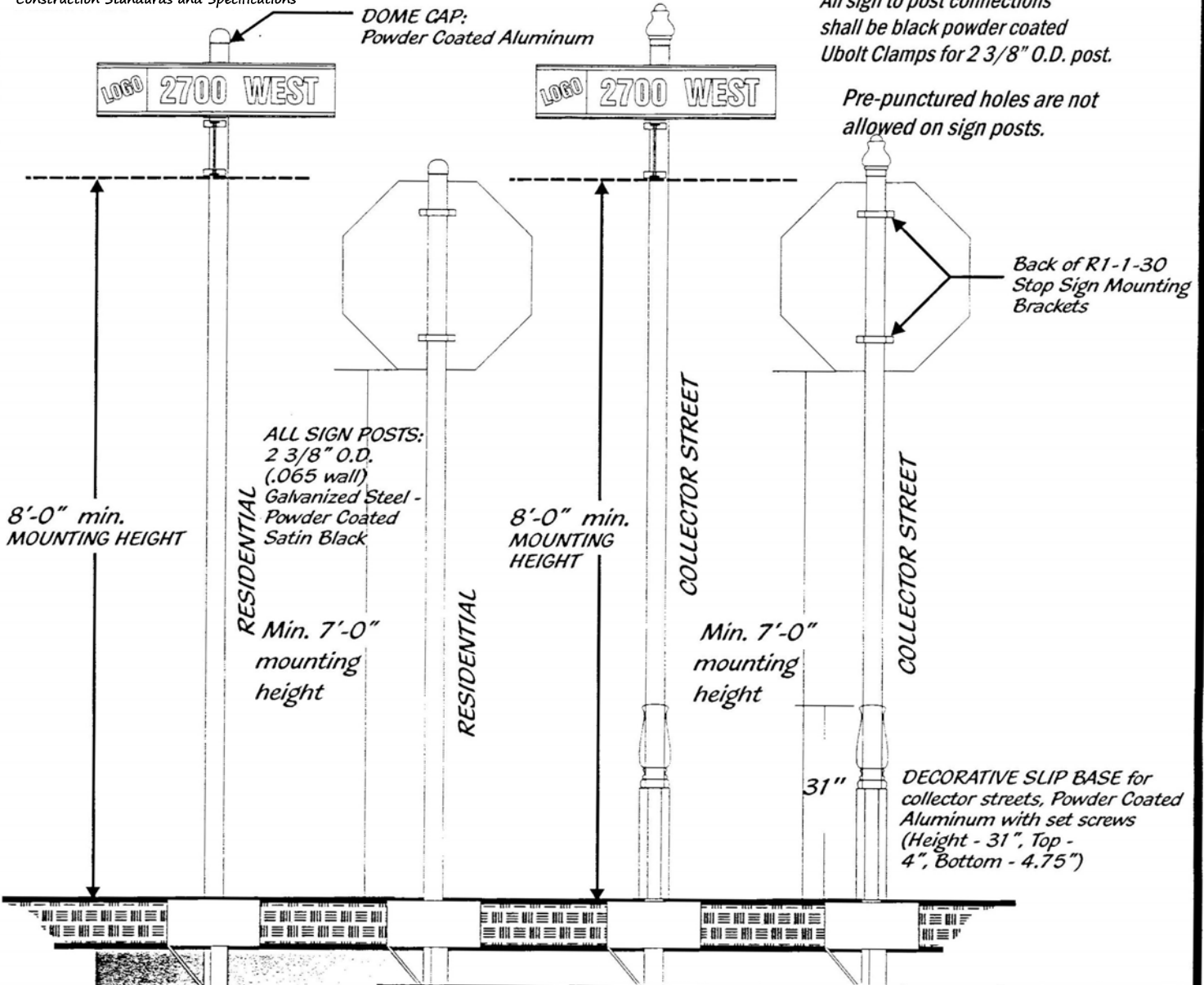
# South Jordan City Sign Post, Sign Hardware Standard Drawing

For minimum sign dimensions and letter heights refer to section 7.7.C. of the South Jordan City Construction Standards and Specifications

**DOMES CAP:**  
Powder Coated Aluminum

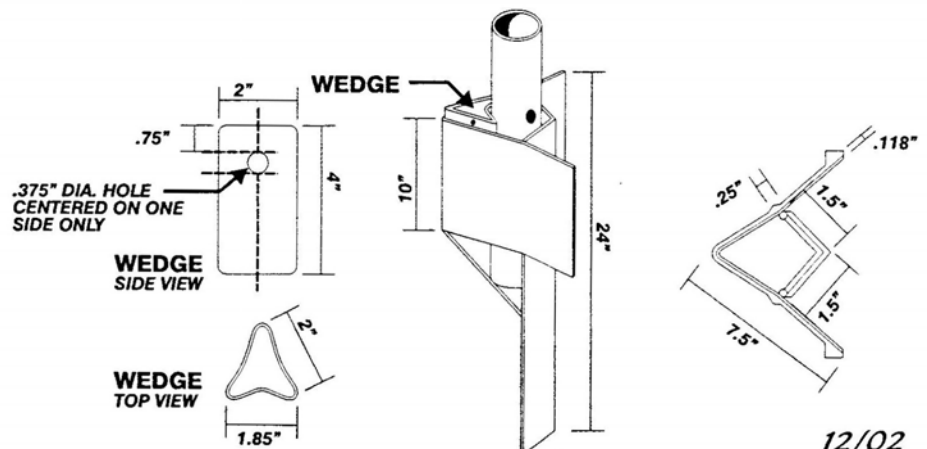
All sign to post connections shall be black powder coated Ubolt Clamps for 2 3/8" O.D. post.

Pre-punctured holes are not allowed on sign posts.

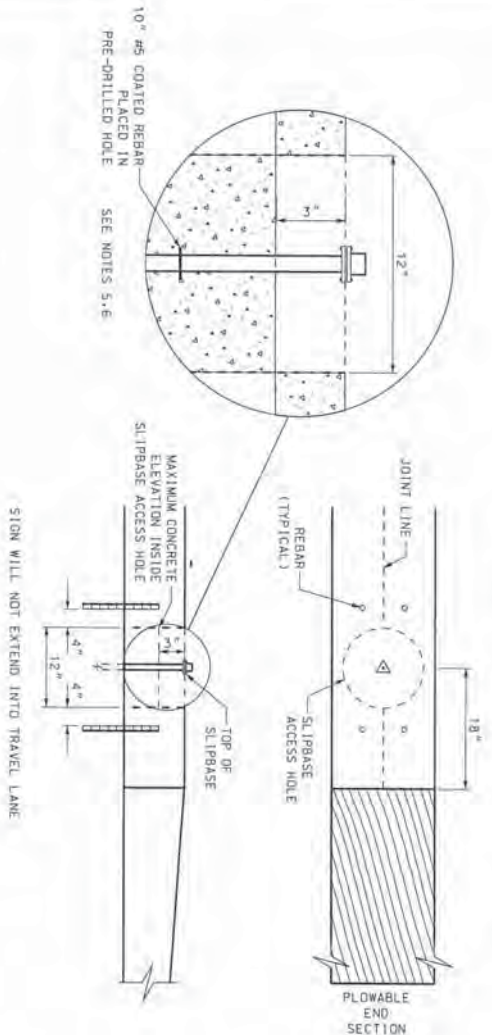


**NOTE:** All sign post material shall meet the following: Post material ASTM-A653, G90, HSLAS, Type B, 55,000 min Y.S. and 70,000 T. S. , approved by F.H.W.A. and ASHTO under current NCHRP Report #350.  
Post, cap and decorative base to be powder coated satin black.

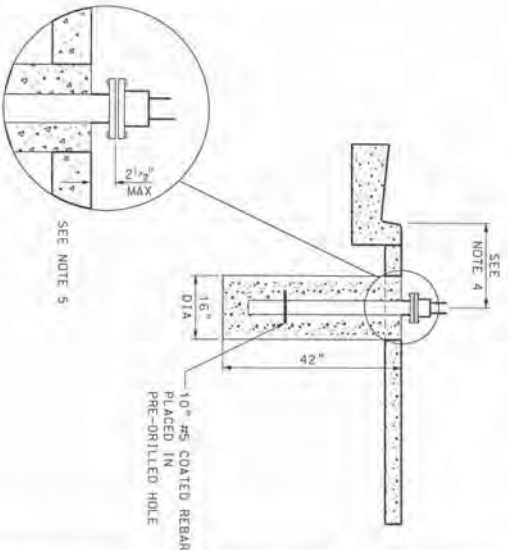
## V-LOC ANCHOR SPECIFICATIONS



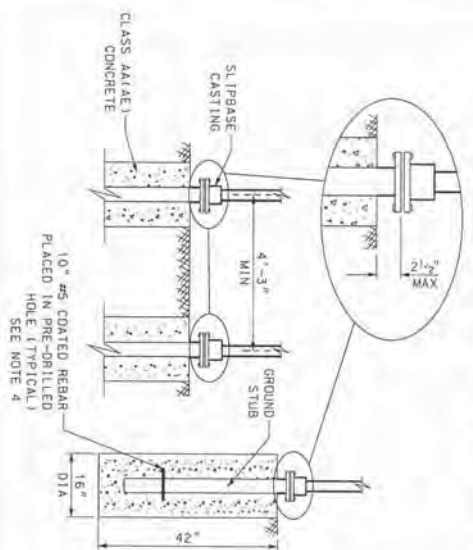
SLIPBASE DETAIL FOR RAISED ISLAND



SLIPBASE DETAIL FOR SIDEWALK



SLIPBASE GROUND STUB FOUNDATION DETAIL  
APPLIES TO SINGLE AND DOUBLE POST APPLICATIONS



POST SELECTION GUIDE  
SINGLE POST APPLICATION

SIGN HEIGHT (FT)	SIGN WIDTH (FT)				
	2	2.5	3	4	5
1				P3	P3
2				P3	P3
2.5				P3	P3
3				P4	P4
4				P3	P4
5				P3	P4
6				P3	P4
7				P3	P4

7" OR "10" BRACKET RECOMMENDED FOR SIGNS GREATER THAN 4 FEET WIDE

POST SELECTION GUIDE  
DOUBLE POST APPLICATION

SIGN HEIGHT (FT)	SIGN WIDTH (FT)									
	5	6	7	8	9	10				
4				P4	P4	P4	P4	P5	P5	P5
5				P4	P5	P5	P5	P5	P5	P5
6				P4	P5	P5	P5	P5	P5	P5
7				P4	P5	P5	P5	P5	P5	P5
8				P5	P5	P5	P5	P5	P5	P5

NOTES:

- REFER TO STD DWG SN 10A FOR POST REQUIREMENTS.
- REFER TO STD DWG SN 13 SERIES FOR MOUNTING AND HANDOVER REQUIREMENTS.
- WHEN INSTALLING A SUPPLEMENTAL SIGN DO NOT EXCEED MAXIMUM SQUARE FOOTAGE OF SINGLE POST APPLICATION BY MORE THAN 50%. TEN-POST P5 MAX. SIGN SIZE 5'W x 6'H = 30 SQ.FT. + 25% = 37.5 SQ.FT. (5'W x 6'H + 1/3' W x 2.5'H = 37.5').
- REFER STD DWG SN 7A FOR HEIGHT AND OFFSET REQUIREMENTS.
- CORE DRILL SLIPBASE HOLE, INSTALL AFTER PLACEMENT OF FINISHED GRADE OF CONCRETE OR ASPHALT.
- ISLAND INSTALLATION: PLACE TOP OF SLIPBASE STUB FLUSH WITH TOP OF THE ISLAND, WITH A TOLERANCE OF + 1/4" 100 NOT PLACE BELOW TOP OF CURB.

STD DWG  
SN 10B

SLIPBASE  
SIGN BASE (B3)  
INSTALLATION

STANDARD DRAWING TITLE

UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL  
*[Signature]*

CHAIRMAN STANDARDS COMMITTEE  
APPROVED  
*[Signature]*

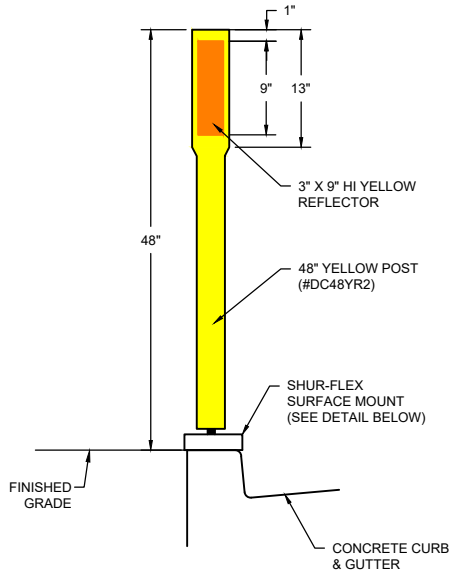
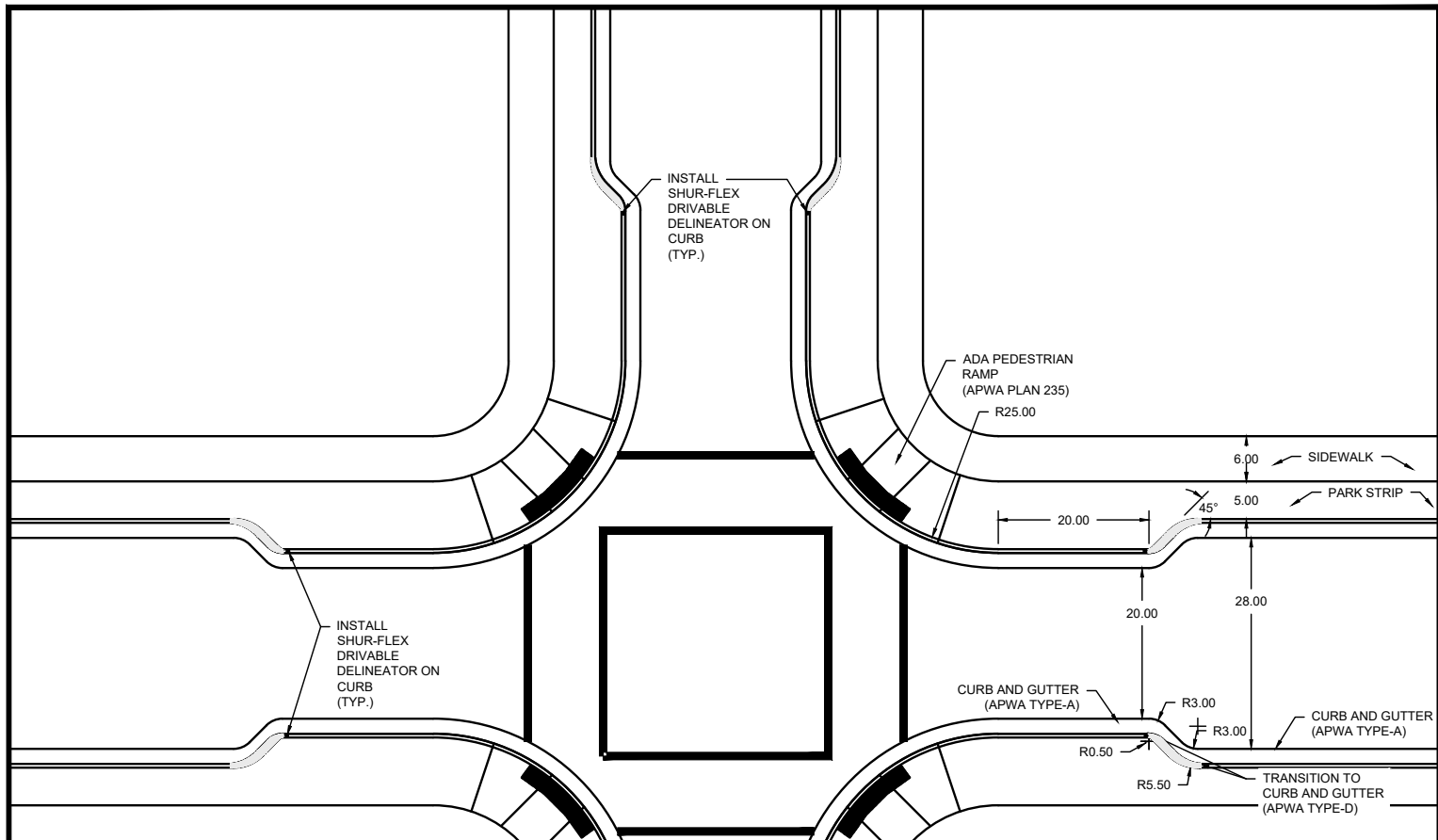
DEPUTY DIRECTOR

JAN 01 2008  
DATE

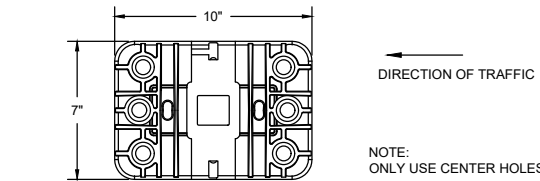
JAN 01 2008  
DATE

REVISIONS			
NO.	DATE	APPR.	REMARKS

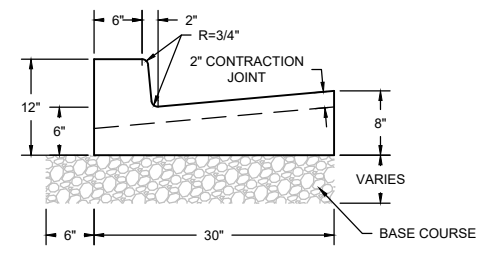
F:\ENGINEERING\STAFF\JASON HUFF...AutoCAD Standard Drawings\SJC Misc Standards\corner extension standard.dwg



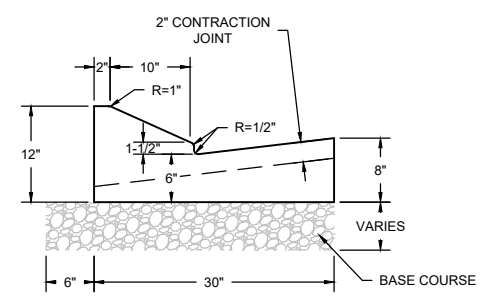
SHUR-FLEX® DRIVABLE DELINEATOR DETAIL



SHUR-FLEX® SURFACE MOUNT BASE DETAIL



TYPE-A



TYPE-D

NOTE:  
PEDESTRIAN CURB EXTENSIONS MAY BE REQUIRED BY THE CITY ENGINEERING DEPARTMENT. DESIGN OF CURB EXTENSIONS MUST BE APPROVED BY CITY ENGINEER PRIOR TO INSTALLATION. CURB EXTENSIONS MAY BE CONSIDERED AS A TRAFFIC CALMING MEASURE OR TO ENHANCE THE SAFETY OF PEDESTRIAN CROSSINGS.

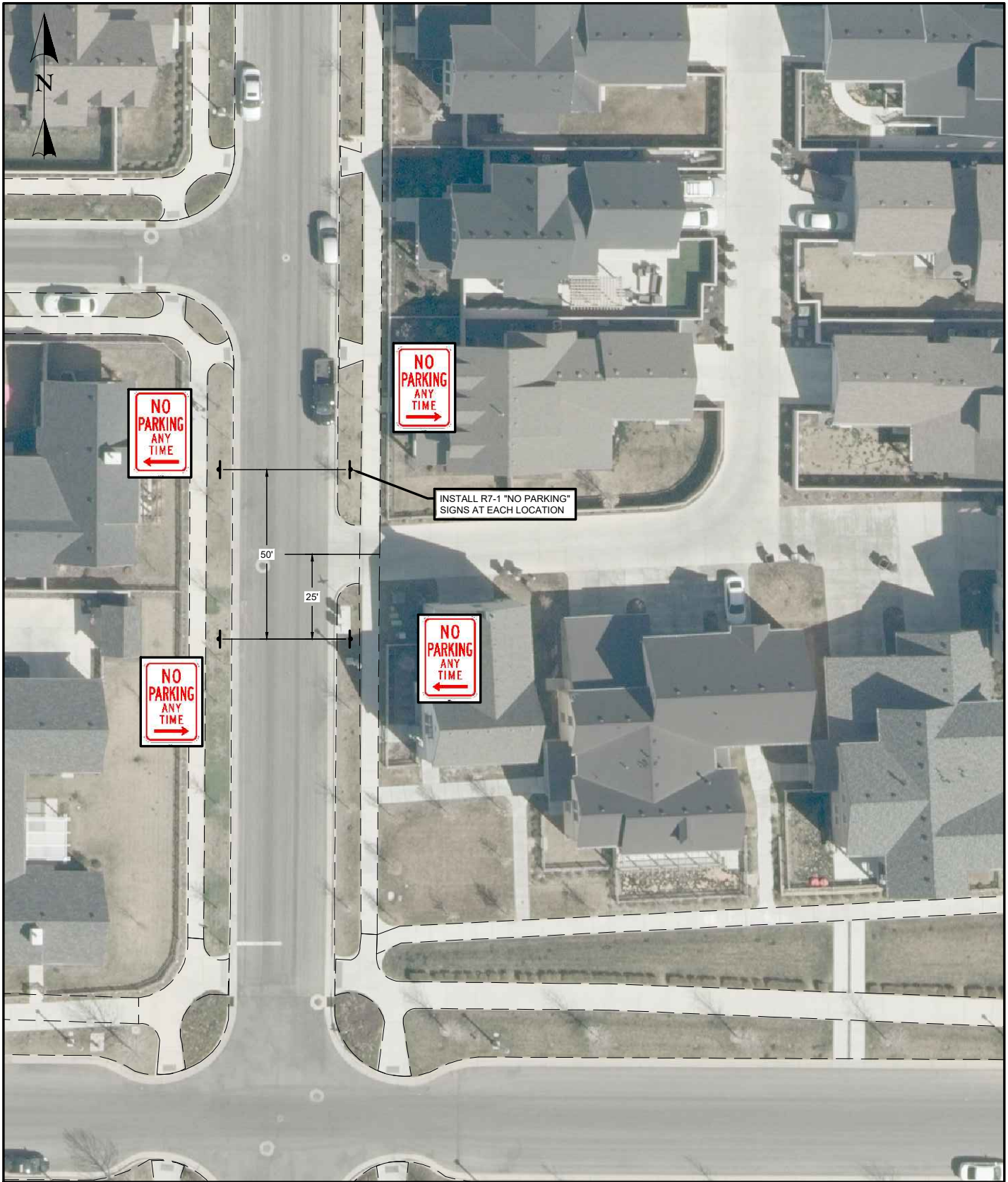
1600 West Towne Center Dr., South Jordan, UT 84095  
Telephone: (801) 254-3742 / Web: WWW.SJC.UTAH.GOV

Drawn By: JWH  
 Designed By: JWH  
 Checked By: JN  
 Date: 4/18/2024

## SOUTH JORDAN CITY CURB EXTENSION - TYPICAL DETAIL

DT-01

Sheet No.



Applicable at the entrance to dead end alleyways and lanes, that form a T intersection.

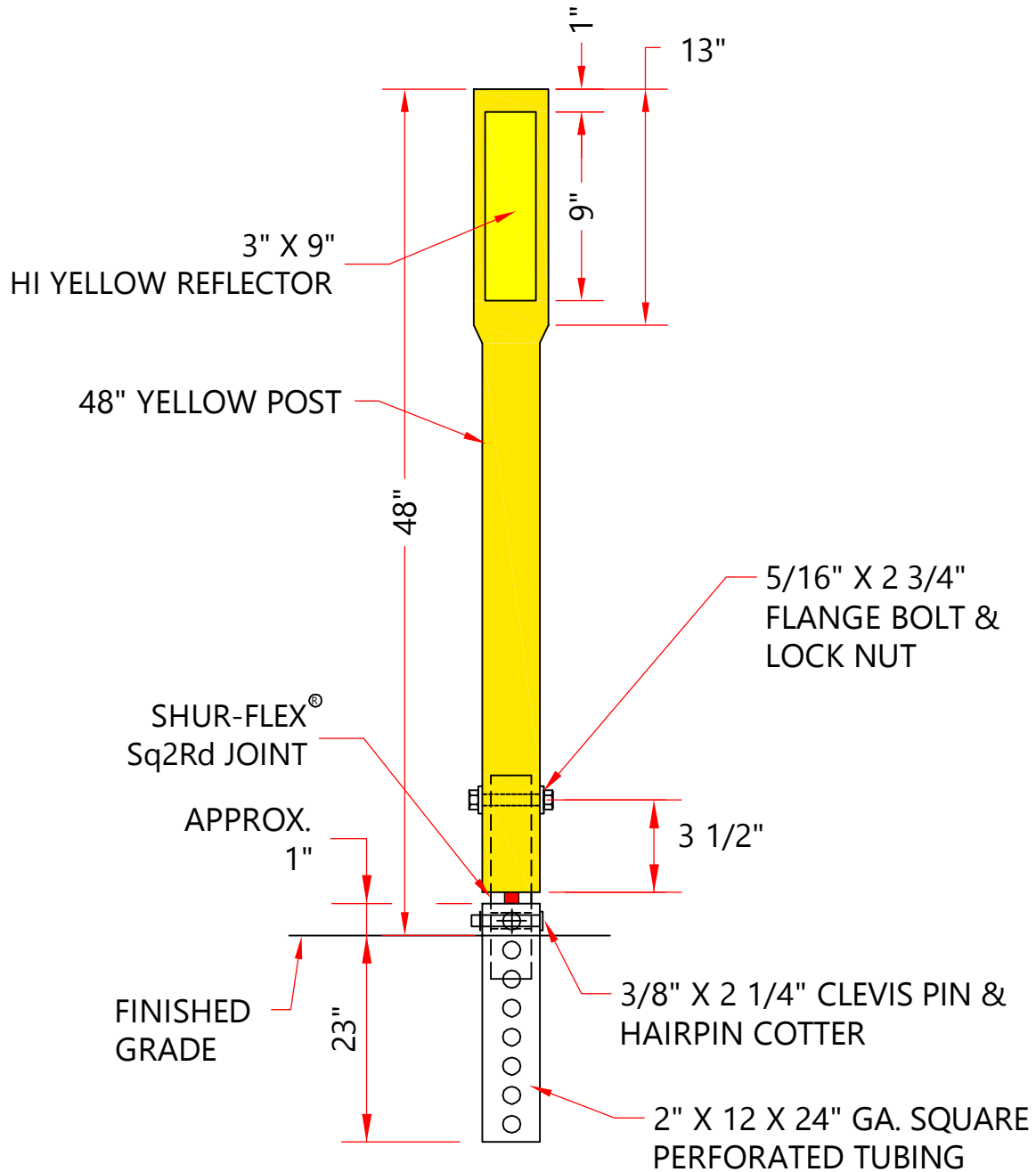


Project No. \_\_\_\_\_  
 Drawn by: \_\_\_\_\_ Design by: \_\_\_\_\_  
 File Name: \_\_\_\_\_  
 Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## Signage for Garbage Routes - No Parking Areas -

STANDARD  
 DRAWING  
**3020**  
 Sheet No.

# SHUR-FLEX<sup>®</sup> DRIVEABLE DELINEATOR DETAIL (#DC48YR2) 3" X 9" YELLOW REFLECTOR



PAT# 7,722,286

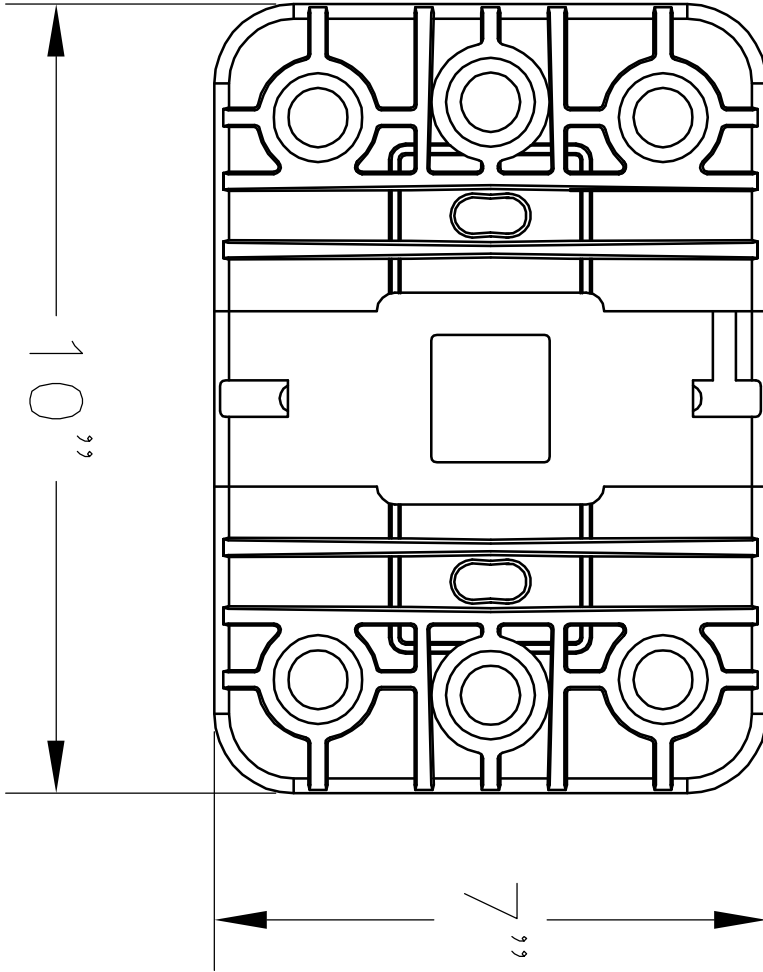
SHUR-TITE SHUR-FLEX DRIVEABLE DC48YR2 082420.dwg, 8/24/2020 10:08:23 AM

**SHUR-TITE<sup>®</sup>  
PRODUCTS**

TYPE:

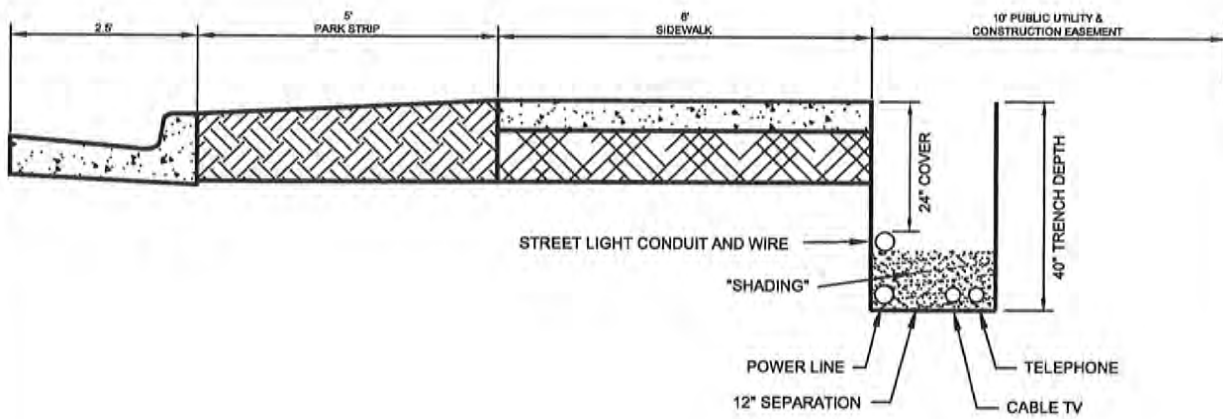
SHUR-FLEX<sup>®</sup> DRIVEABLE  
DELINEATOR DETAIL

DRAWN BY: CSC	ITEM #: DC48YR2
CHECKED BY: DWH	DATE: 08/24/20
	SHEET: 1 / 1



↑  
DIRECTION OF  
TRAFFIC

# **STREET LIGHTS**



## UTILITY TRENCH DETAIL

Not to Scale

Sheet No. 1/1

Project No. \_\_\_\_\_  
 Drawn by: SG Design by: \_\_\_\_\_  
 File Name: Utility Trench Detail  
 Checked by: \_\_\_\_\_ Date: 3/22/07

Standard Utility Trench Detail



NO.	DATE	REVISION COMMENTS

IN USA

MADE



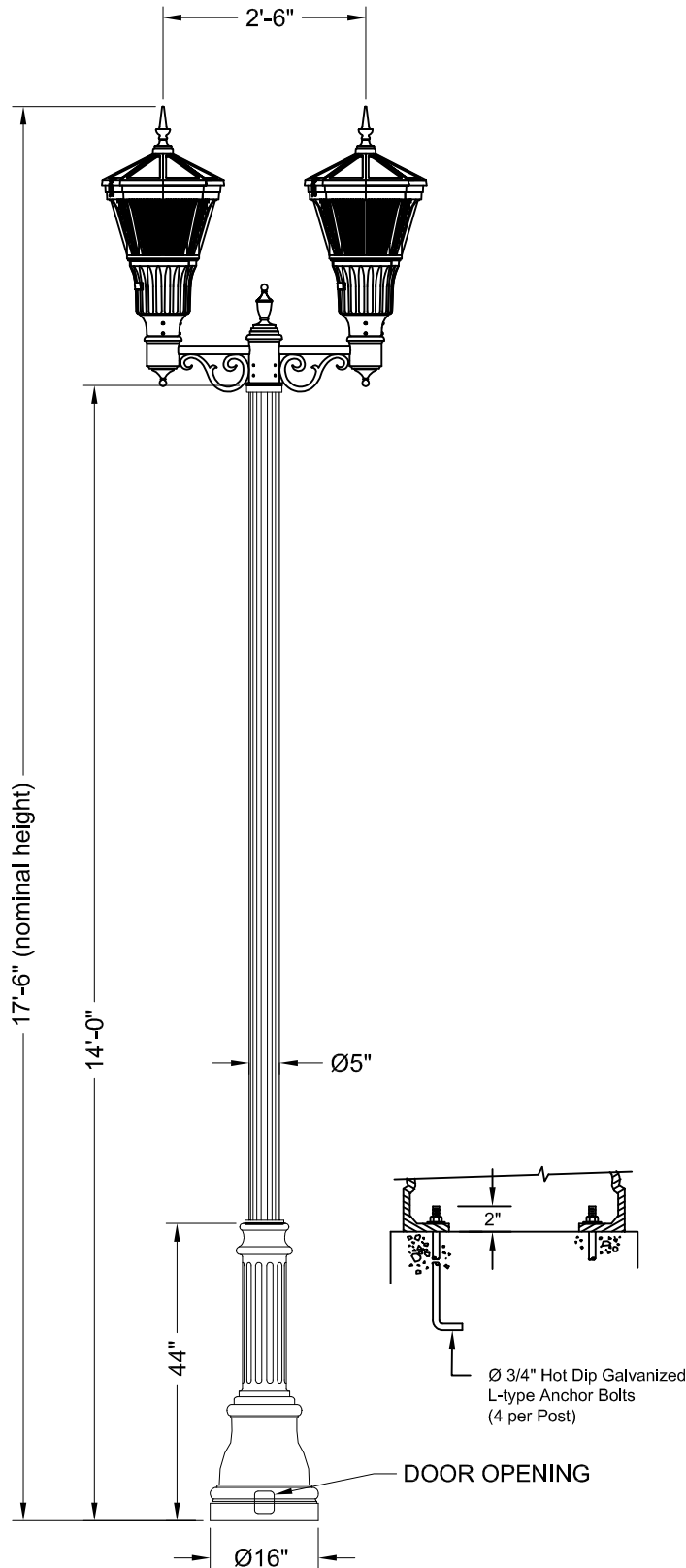
Electric

LIFT

HERE



# Specifications



## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft shall be Ø5" fluted.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

## DIMENSIONS

The post shall be 14'-0" in height with an 16" diameter base. The shaft diameter shall be 5". At the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

## INSTALLATION

The post shall use four L-type anchor bolts installed on an Ø12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE

- Utility Arlington LED
- 100W 4k CCT
- Auto-sensing 120-277V
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277V

For complete specifications see LUM\_ARUE.

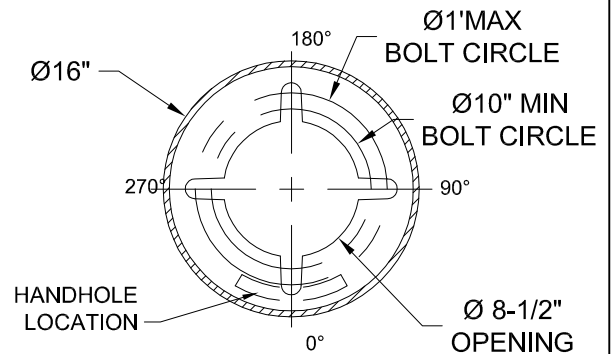
## OPTICAL SYSTEM

Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

## Anchorage Detail



## Catalog #'s:

ARUE1004KASG3BSHL25PCS - CSC30CABKH - CHA14F5J16P05ABGBK

## Customer Signature



## South Jordan Category 1a

ORDER #:	TYPE: Cat 1A	DRAWING #:
REVISION:	REVISION DATE:	TSG 007077
DRAWN: ACH	ORIGIN DATE:	PAGE: 1 of 1

# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft profile will consist of 4 mounting tracks and internal passages as shown.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

- Utility Arlington LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

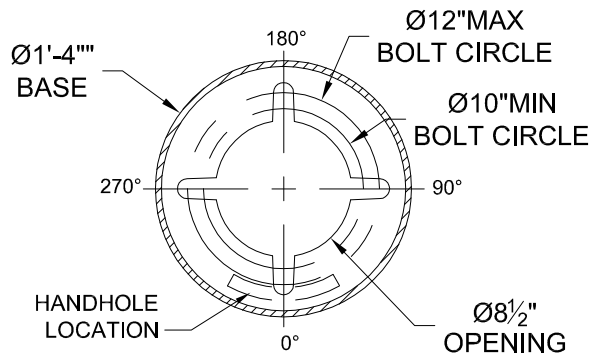
## OPTICAL SYSTEM

Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

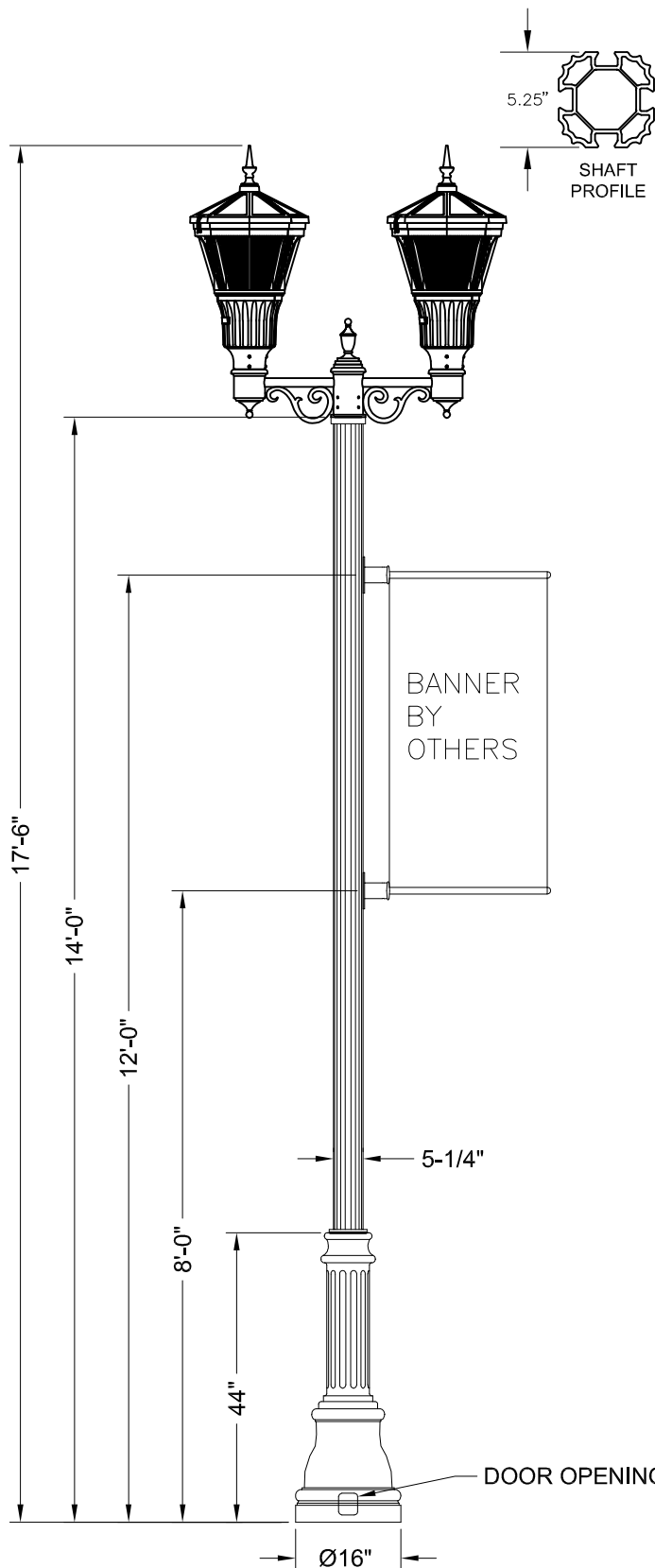
## Anchorage Detail



## Catalog #'s:

ARUE1004KASG3BSHL25PCS - CSC30CABKH-CHA14L5J16P05ABGBK-BA24L45A4BK

## Customer Signature



# South Jordan Category 1b

ORDER #:	TYPE: Cat 1b	DRAWING #:
REVISION:	REVISION DATE:	TSG 002636
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1



THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft profile will consist of 4 mounting tracks and internal passages as shown.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

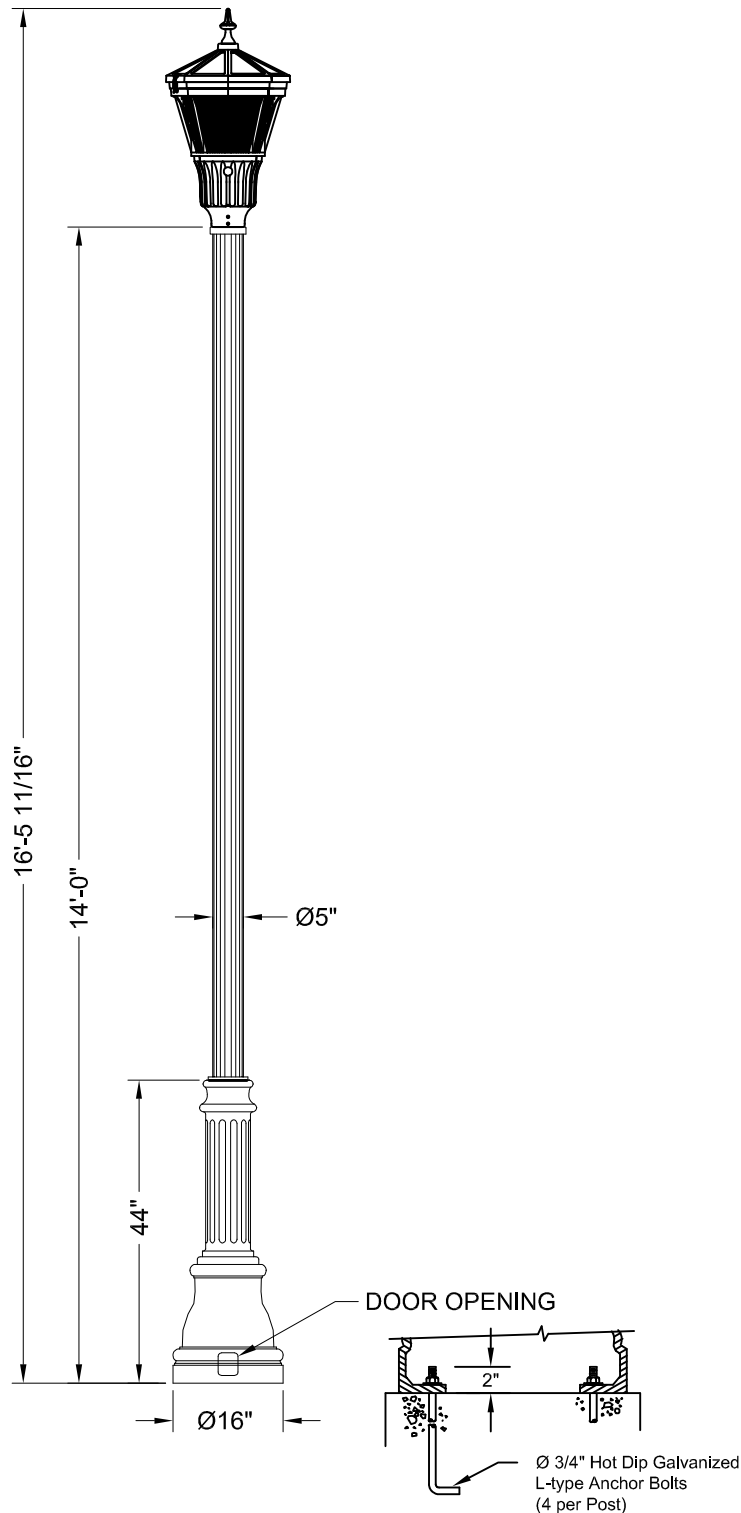
- Utility Arlington LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

## OPTICAL SYSTEM

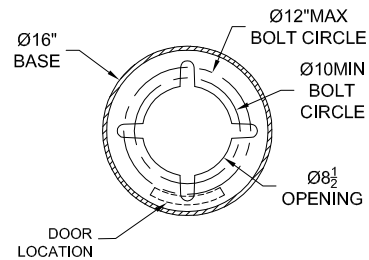
Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



## Anchorage Detail



Catalog #s:

ARUE1004KASG3BSHL25PCS -CHA14L5J16P07ABGBK

Customer Signature

Date

## South Jordan Category 2



ORDER #:	TYPE: Cat 2	DRAWING #:
REVISION:	REVISION DATE:	TSG 003175
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

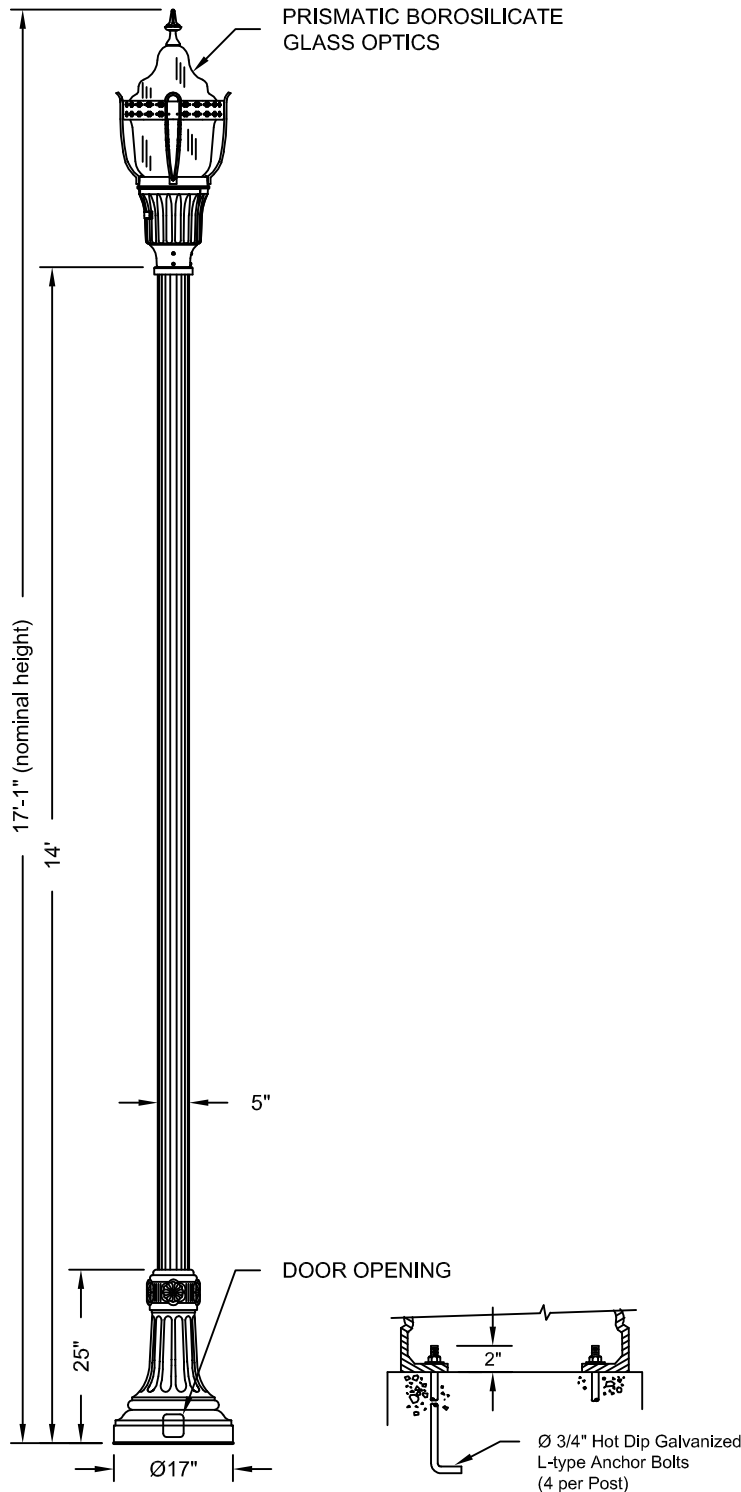
- Utility Granville LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Glass Prismatic Refractor Borosilicate glass, Decorative Cage and Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

## OPTICAL SYSTEM

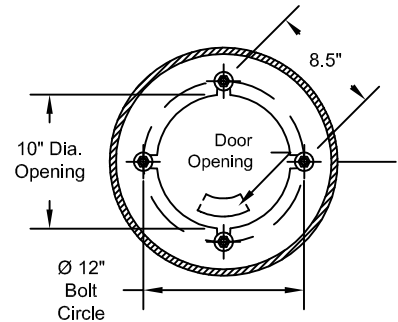
The optical system consists of a precisely molded thermal resistant borosilicate glass refractor and top reflector mounted within the decorative aluminum housing and is not removable. The glass top reflector redirects over 50% of the upward light into controlling refractor while allowing an uplight component to define the acorn shape of the luminaire. I.E.S. type III distribution is provided through the refractor prisms. Acrylic or Polycarbonate optical lens are not acceptable.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



## Anchorage Detail



Catalog #s:

GVD1004KASMB3RSG25HPCSS NYA14F5J17P07ABG

Customer Signature

Date



## South Jordan Category 3

ORDER #:	TYPE: Cat 3	DRAWING #:
REVISION:	REVISION DATE:	TSG 007220
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

# Specifications

## POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design.

## MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

## CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

## DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post.

## INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

## FINISH

The assembly shall be Holophane black powder coat

## LUMINAIRE DESCRIPTION

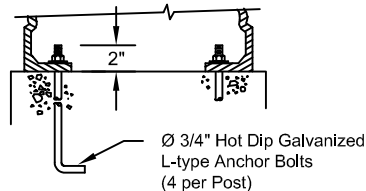
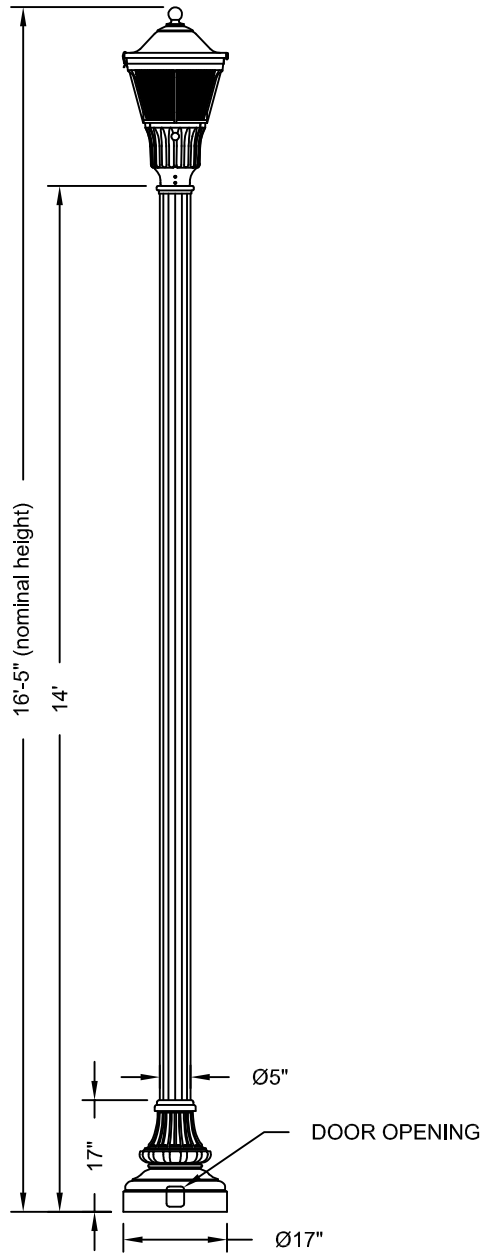
- Utility Postop LED
- 50W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Ball Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

## OPTICAL SYSTEM

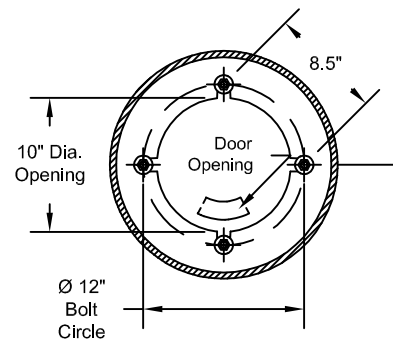
Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

## ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



## Anchorage Detail



## Catalog #s:

PTUE504KASG3BBHL25PCS WDA14F5J17P07ABGBK

## Customer Signature

# South Jordan Category 4



ORDER #:	TYPE: Cat 4	DRAWING #:
REVISION:	REVISION DATE:	TSG 003314
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

## Cable Retainer Assy, For 4" Foundation Anchor, Galvanized Steel



SP-6224-GLV

Pelco's anti-theft Cable Retainer is the best solution to help prevent copper cable theft in street light poles. Works with Pelco's PB-5364 4" Foundation Anchor or to existing foundations with a 8"-13-1/2" bolt circle. Secures 3/16" to 1/2" diameter cables.

## Cable Retainer Assy, For 6" Foundation Anchor, Galvanized Steel



SP-6200-GLV

Pelco's anti-theft Cable Retainer is the best solution to help prevent copper cable theft in street light poles. Works with Pelco's PB-5372 6" Foundation Anchor or to existing foundations with a 9-1/2"-13-1/2" bolt circle. Secures 3/16" to 1/2" diameter cables.

Note: 1. All assemblies are supplied standard with stainless steel fasteners.

## Cable Retainer Assy, For 8" Foundation Anchor, Galvanized Steel



SP-6205-GLV

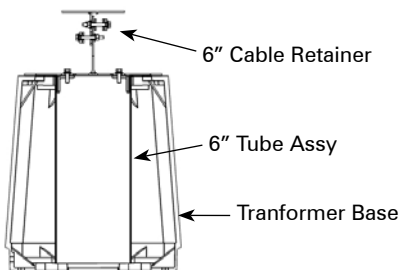
Pelco's anti-theft Cable Retainer is the best solution to help prevent copper cable theft in street light poles. Works with Pelco's PB-5375 8" Foundation Anchor or to existing foundations with a 11-1/2"-17" bolt circle. Secures 3/16" to 1/2" diameter cables.

## Tube Assembly For 6" Cable Retainer, Galvanized Steel




SP-6358-  Length -GLV

04.5=4-1/2"  
16.38=16-3/8"



The Tube Assembly mounts underneath Pelco's SP-6200 anti-theft Cable Retainer inside the transformer base. The tube is designed to prevent copper cable theft in street light poles. Available in 4-1/2" or 16-3/8" lengths. Complete with mounting hardware.


Note: 1. All assemblies are supplied standard with stainless steel fasteners.



### Door Assy, TB1-17 Tranformer Base "Copper Safe" Theft Deterrent Steel

Coating  
 PB-5520- 
  
 P\_\_=Paint

Pelco's "Copper Safe" Transformer Doors are shatter-resistant and pull-off resistant to protect against copper theft. Typically powder coated P40 Silver, other colors available. Requires AP-5121 Kit for installation.



### Door Assy, TB1-20 Tranformer Base "Copper Safe" Theft Deterrent Steel

Coating  
 PB-5526- 
  
 P\_\_=Paint

Pelco's "Copper Safe" Transformer Doors are shatter-resistant and pull-off resistant to protect against copper theft. Typically powder coated P40 Silver, other colors available. Requires AP-5121 Kit for installation.

Note: 1. All assemblies are supplied standard with stainless steel fasteners.  
 2. See Reference Section for available paint colors.