

## APPENDIX A

### STANDARD DRAWINGS FOR LANDSCAPE & IRRIGATION

**Stand.  
Dwg.  
No.**

**Description**

***Backflow***

PK-05 Insulated Backflow Enclosures

***Curbing***

PK-10 Curbing

***Design or Cross-sections***

PK-15 Typical Streetscape Head Pattern  
PK-20 Streetscape Planting Cross Section  
PK-25 Parkstrip "A"  
PK-30 Parkstrip, Alternative 'A-1', 0% Turfgrass  
PK-35 Parkstrip "B"  
PK-40 Parkstrip "C"

***Irrigation***

PK-45 Ped. Mount Controller  
PK-50 Mainline Connection No. 2  
PK-55 Valve Assembly  
PK-60 Valve Assembly  
PK-65 Sleeving  
PK-70 Spray Pop-up  
PK-75 Rotor Pop-up Sprinkler (3504 with Swing Pipe)  
PK-80 Rotor Pop-up Sprinkler  
PK-85 Pressure Compensating Full-circle Bubbler  
PK-90 Xeri-Bubbler on ¼" Tubing  
PK-95 Emitters around Plant (on ¼-inch Tubing)  
PK-100 Easy Fit Compression Fittings

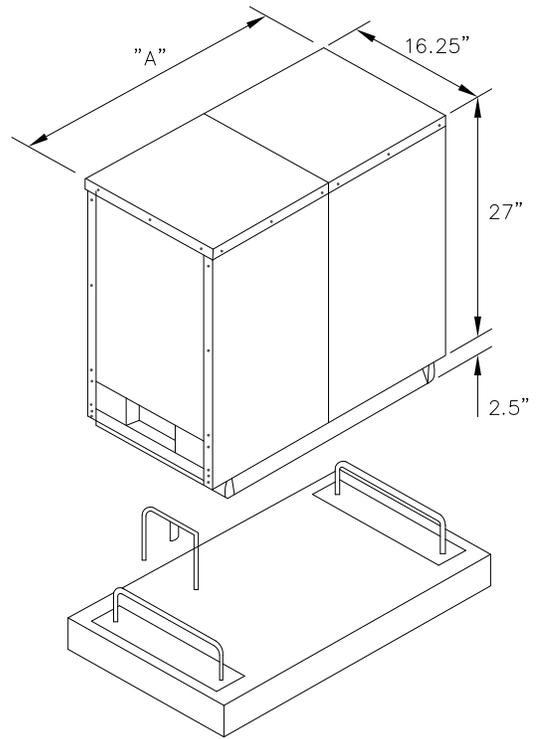
***Plant Material***

PK-105 Tree Planting & Staking  
PK-110 Tree Planting & Staking  
PK-115 Shrub Planting & Staking  
PK-120 60" Square Style "STA" Tree Grate (Framing)  
PK-125 Tree Grate Frames (Framing)  
PK-130 Tree Grate Frames (Framing)  
PK-135 Tree Grate Frames (Framing)  
PK-140 Tree Grate Frames (Framing)

***Trails***

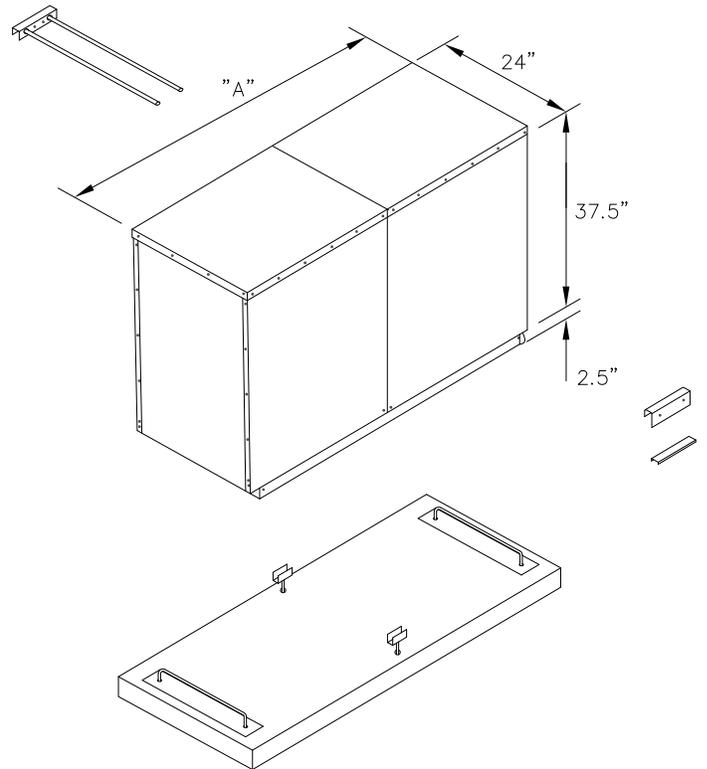
PK-145 Trail Cross Section  
PK-150 1" Control Zone Kit W/ Pressure Regulating Backflow Filter  
PK-155 Pressure Reducer Back Flow Preventer

	"A" LENGTH	HEIGHT	WIDTH
SBBC-15ALI	15"	29.5"	16.25
SBBC-30ALI	30"	29.5"	16.25
SBBC-45ALI	45"	29.5"	16.25
SBBC-60ALI	60"	29.5"	16.25



LOW PROFILE INSULATED ENCLOSURE

	"A" LENGTH	HEIGHT	WIDTH
SBBC-40ALHPI	40"	39"	24"
SBBC-60ALHPI	60"	39"	24"
SBBC-75ALHPI	75"	39"	24"
SBBC-90ALHPI	90"	39"	24"



HIGH PROFILE INSULATED TWO PIECE ENCLOSURE

NOTE:

SEE STRONG BOX  
MANUFACTURE OR EQUAL

DRAWING DATE MARCH 25, 2009



975XL/XLSE

MODEL	SIZE	DEVICE LENGTH	NIPPLE LENGTH	NIPPLE TOTAL	ELBOW TOTAL	TOTAL INCHES	ALUMINUM MODEL NO.	SMOOTH TOUCH MODEL NO.	EXPANDED METAL MODEL NO.
3/4"	12.000	20.250	3"	5.000	4.000	21.000	SBBC-30AL	SBBC-30SS & CR	BC-30CR
1"	13.000	20.250	3"	5.000	5.000	23.000	SBBC-30AL	SBBC-30SS & CR	BC-30CR
1 1/4"	17.000	23.625	3"	5.000	5.500	27.500	SBBC-45AL	SBBC-45SS & CR	BC-45CR
1 1/2"	17.500	23.625	3"	5.000	6.000	28.500	SBBC-45AL	SBBC-45SS & CR	BC-45CR
2"	18.625	23.625	3"	5.000	7.500	31.125	SBBC-45AL	SBBC-45SS & CR	BC-45CR

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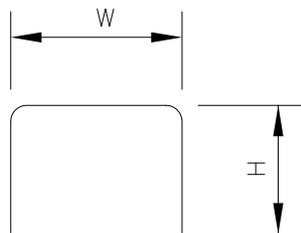
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2 OF 2



# INSULATED BACKFLOW ENCLOSURES

PLAN  
PK-005



STANDARD CURB STYLE

TYPE	6"x8"	6"x6" SQUARE	6" 5"
WIDTH	8"	6"	6" 5"
H	6"	6"	6" 4"
R	.075"	.075"	4" 4"

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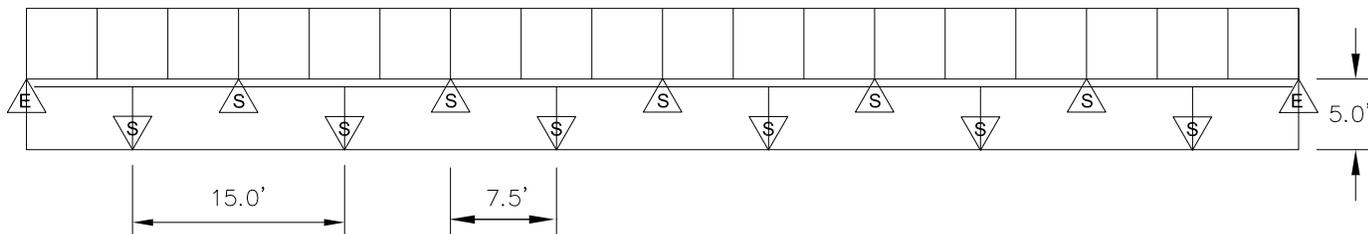
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**CURBING**

PLAN  
**PK-010**

-  NEW HUNTER OR RAINBIRD EST-PC POP-UP SPRAY HEAD
-  NEW HUNTER OR RAINBIRD SST-PC POP-UP SPRAY HEAD



Notes:

1. HEADS ALTERNATING TO FORM TRIANGLE SPACEING
2. DRAWING NOT TO SCALE
3. MAIN LINE AND LATERIALS ARE TO BE LOCATED ON SIDEWALK SIDE OF PARKSTRIP

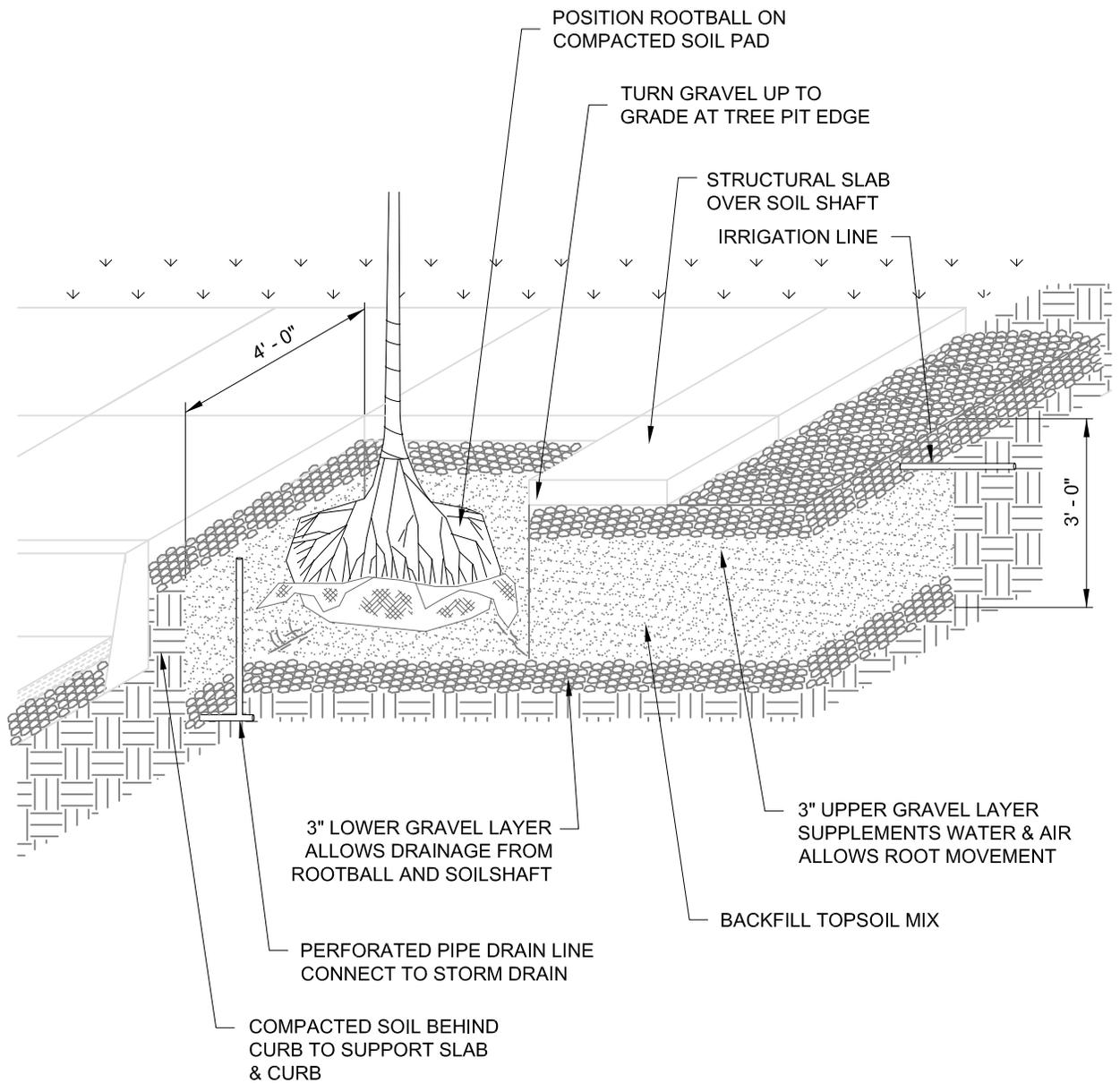
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# TYPICAL STREETSCAPE HEAD PATTERN

PLAN  
PK-015



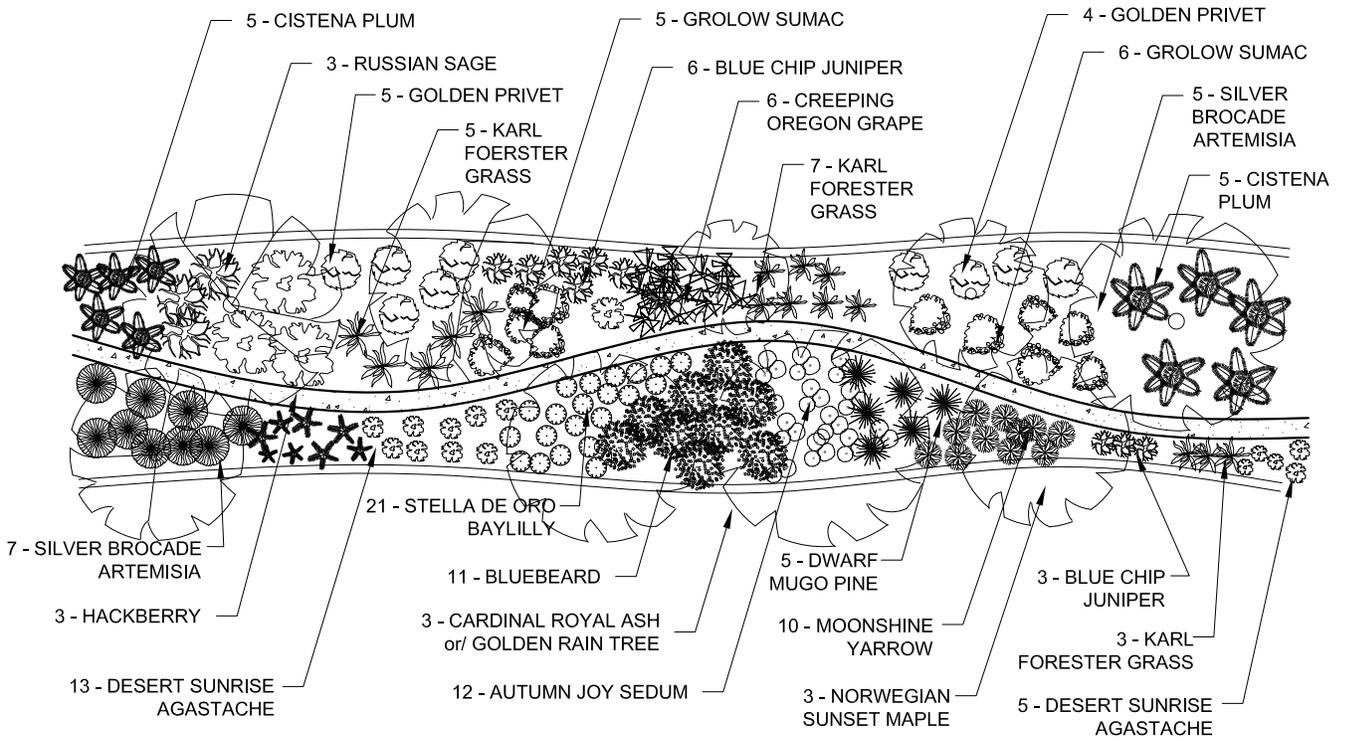
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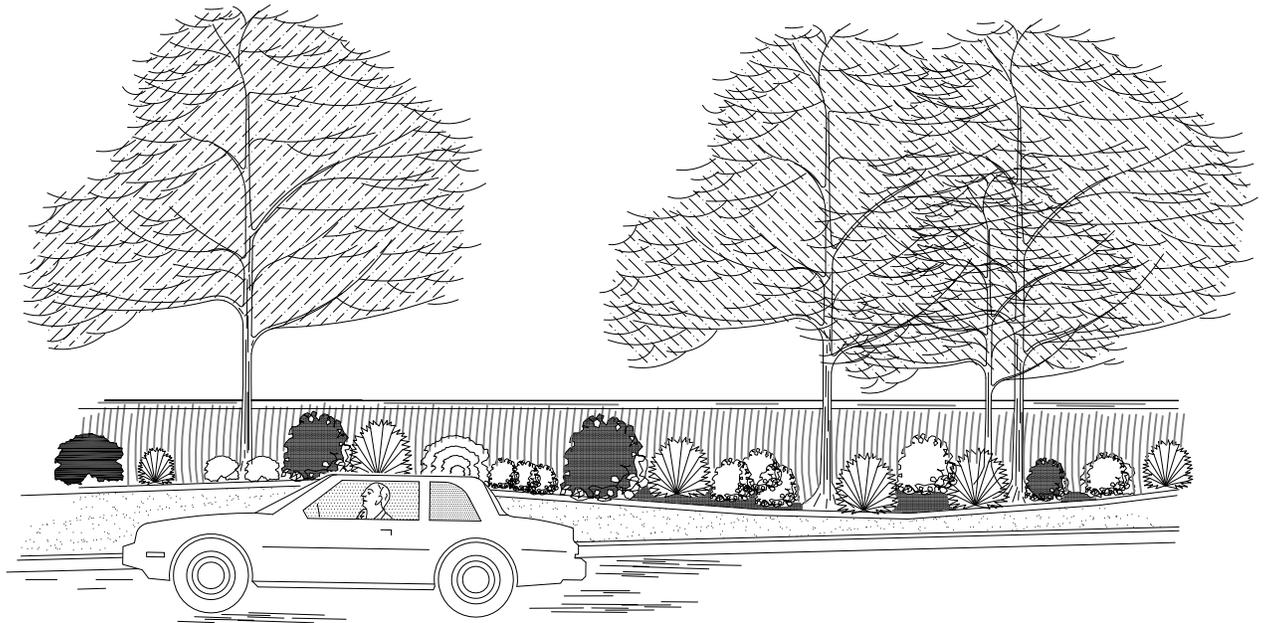


# STREETSCAPE PLANTING CROSS SECTION

PLAN  
PK-020



NOTE: WEED FABRIC



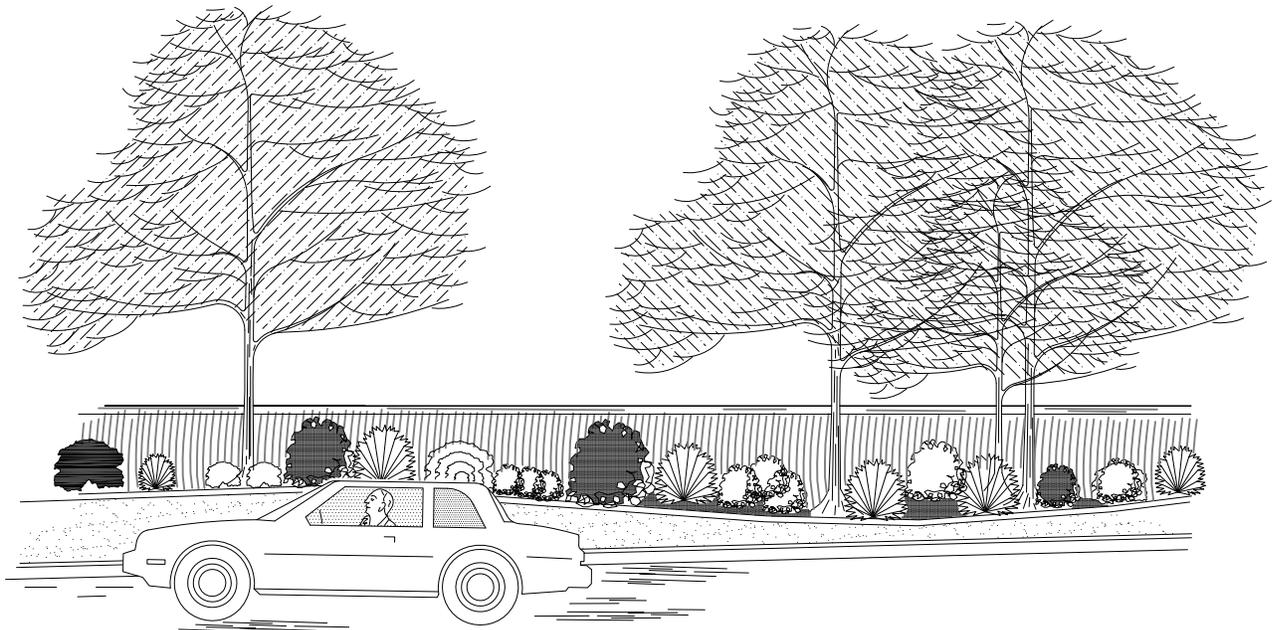
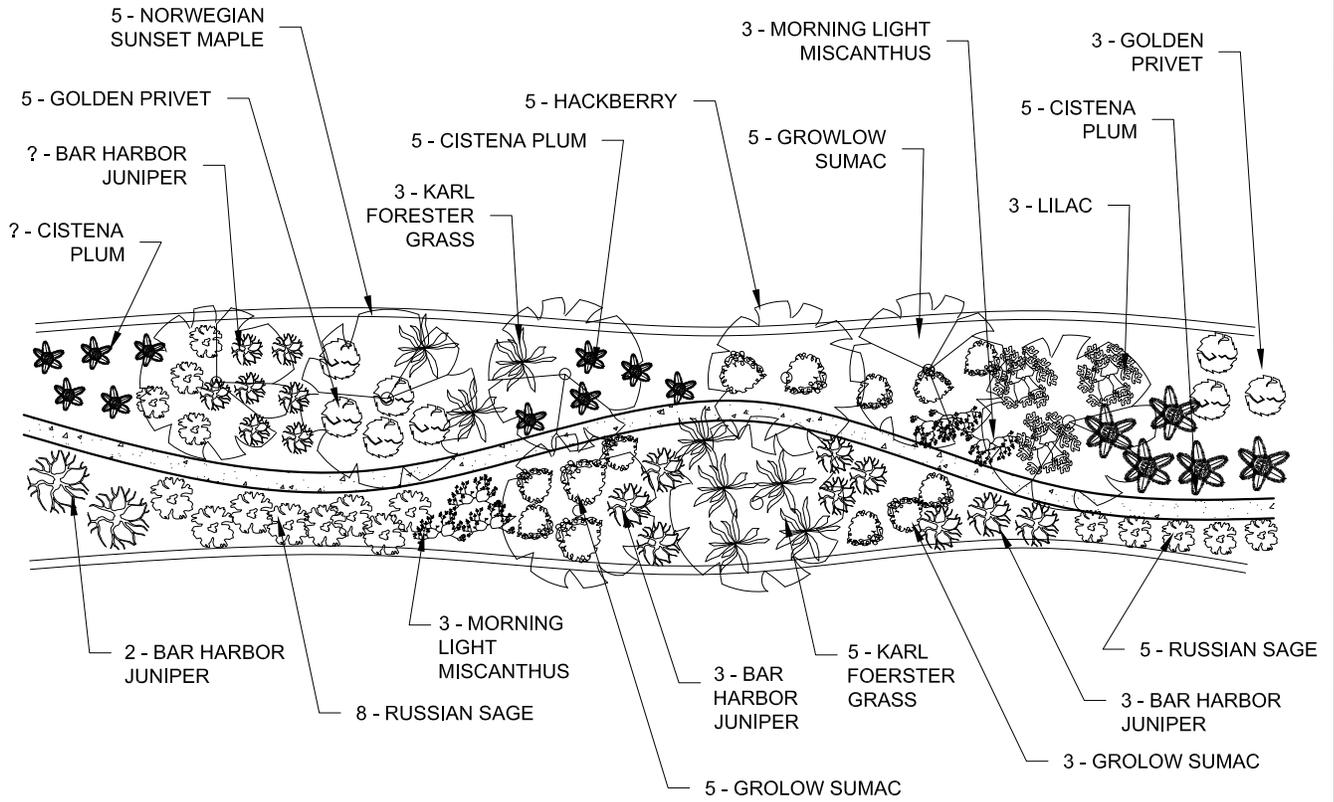
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PARKSTRIP "A"

PLAN  
 PK-025



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**PARKSTRIP 'A-1'**  
0 % TURFGRASS

PLAN  
**PK-030**

6 - HACKBERRY or/  
GOLDEN RAIN TREE or/  
NORWEGIAN SUNSET MAPLE

11 - COMPACT  
OREGON GRAPE

7 - GROWLOW  
SUMAC

6 - CISTENA PLUM

8 - BLUE CHIP  
JUNIPER

12 - AUTUMN  
JOY SEDUM

6 - GROLOW SUMAC

9 - COMPACT  
OREGON GRAPE

6 - MOONSHINE  
YARROW

7 - KARL  
FORESTER  
GRASS

5 - CISTENA  
PLUM

3 - BLUE CHIP  
JUNIPER

7 - MOONSHINE  
YARROW

5 - KARL  
FORESTER  
GRASS

5 - ROCK  
COTONEASTER

5 - GROWLOW  
SUMAC

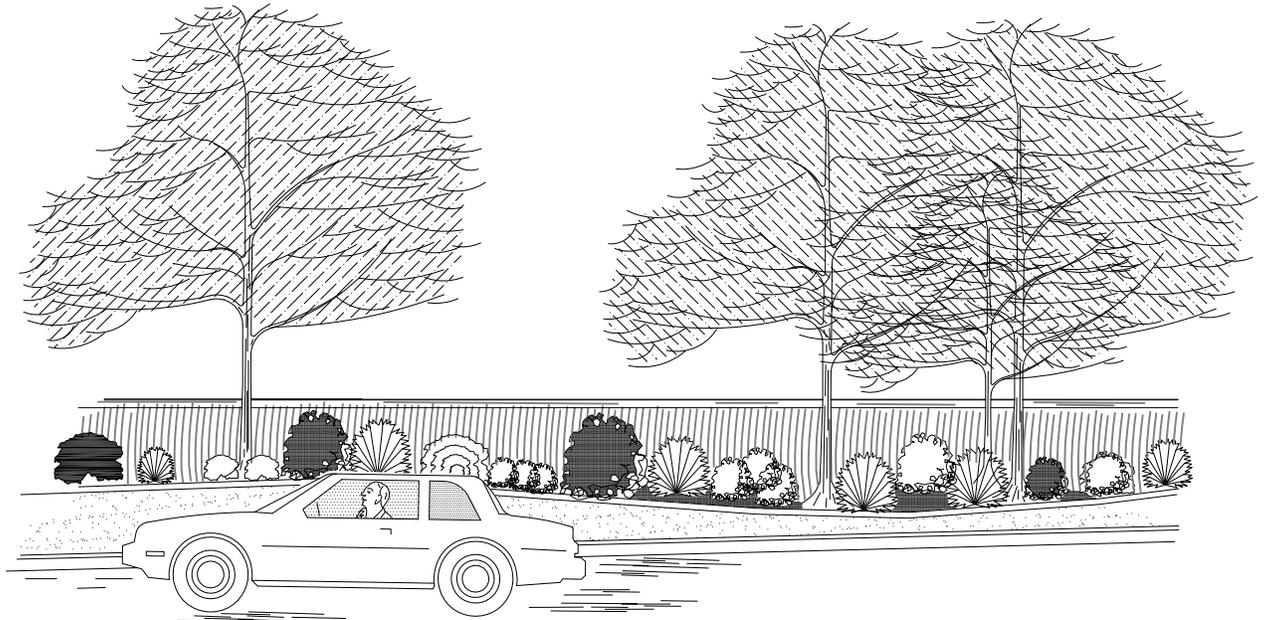
LAWN -  
BLUE-GRASS MIX

5 - ROCK  
COTONEASTER

5 - BLUE CHIP  
JUNIPER

9 - AUTUMN  
JOY SEDUM

**NOTE: WEED FABRIC**



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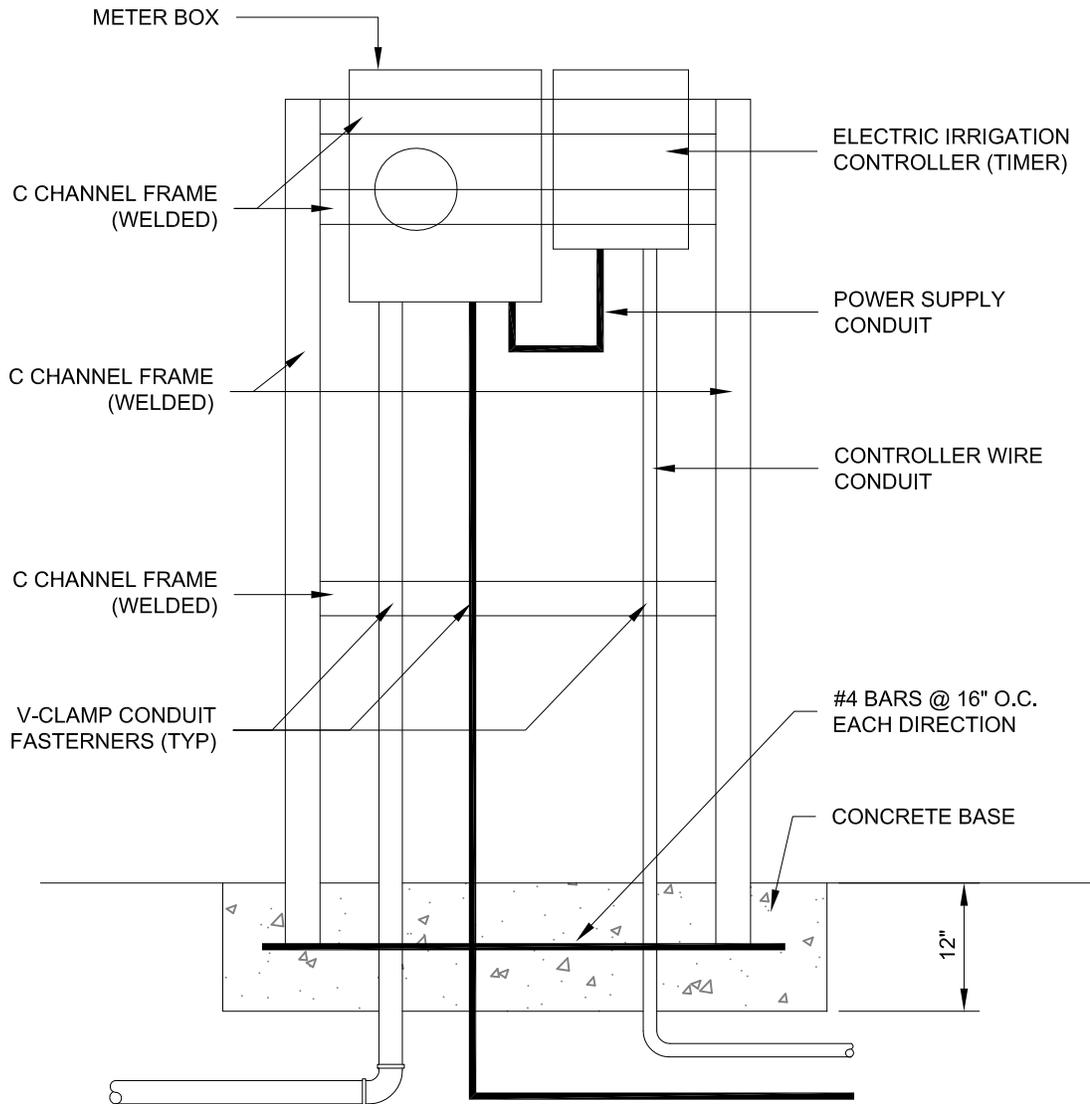
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# PARK STRIP "B"

PLAN  
PK-035





GALVANIZED STEEL CONDUIT: required for all conduit above ground.

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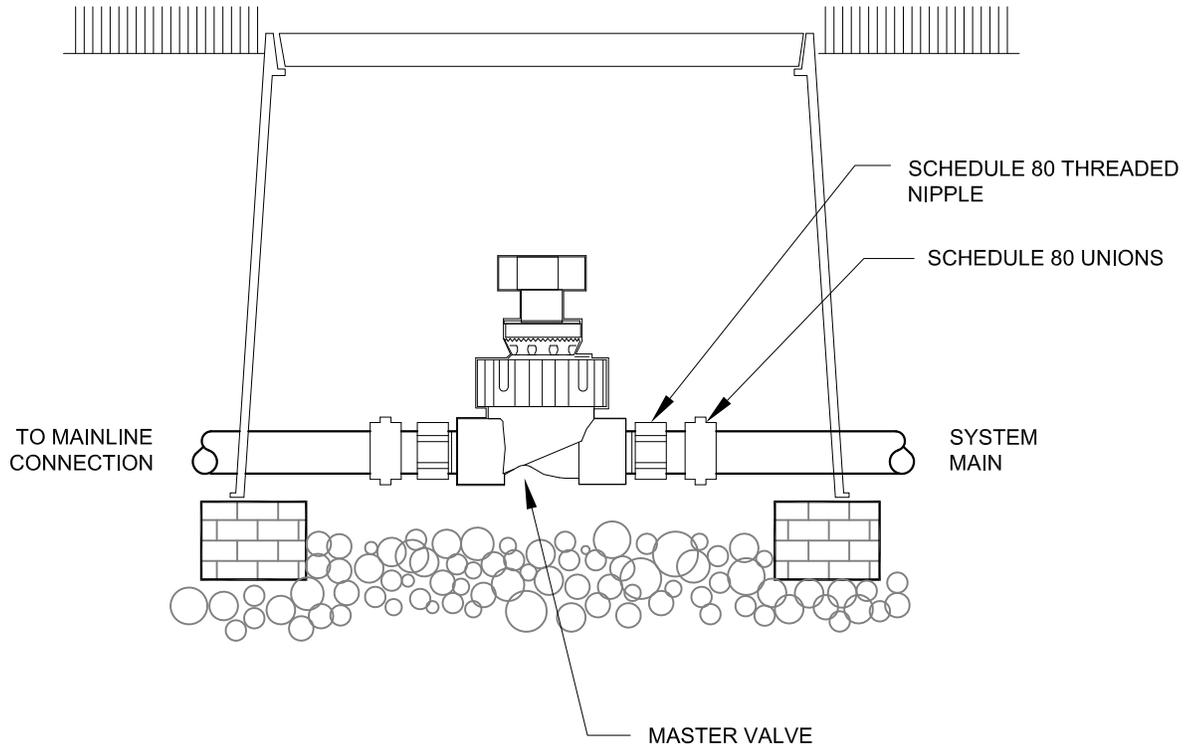


# PED. MOUNT CONTROLER

PLAN  
PK-045

ARAD HIGH PRESSURE HYDROMETERT

CARSON BROOKS VAULT WITH POLYMER  
CONCRETE COVER AND BRICK SUPPORT



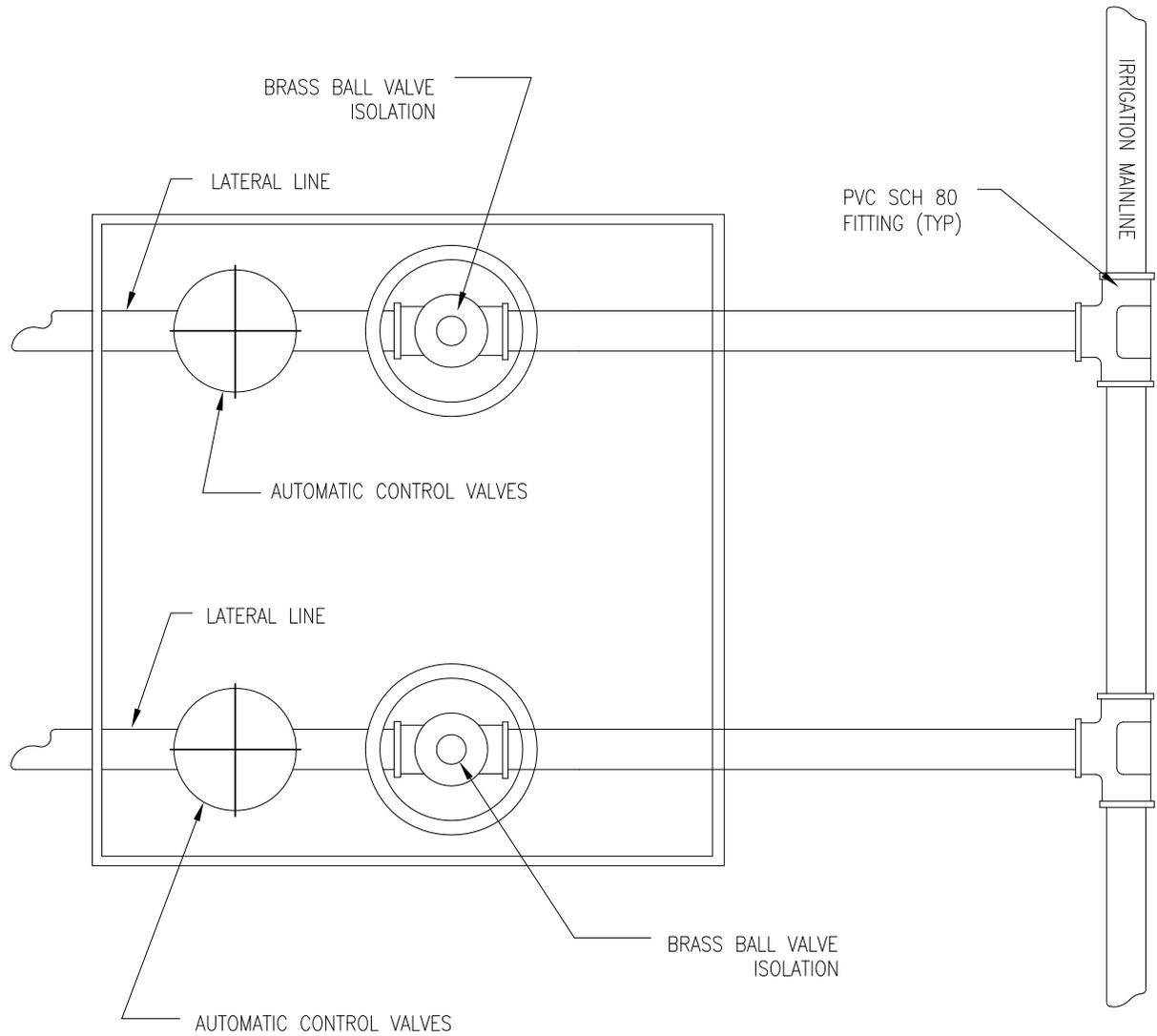
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MAINLINE CONNECTION NO.2

PLAN  
PK-050



EACH AUTOMATIC CONTROL VALVE NEEDS TO HAVE ITS OWN ISOLATION VALVE (BRASS BALL VALVE)

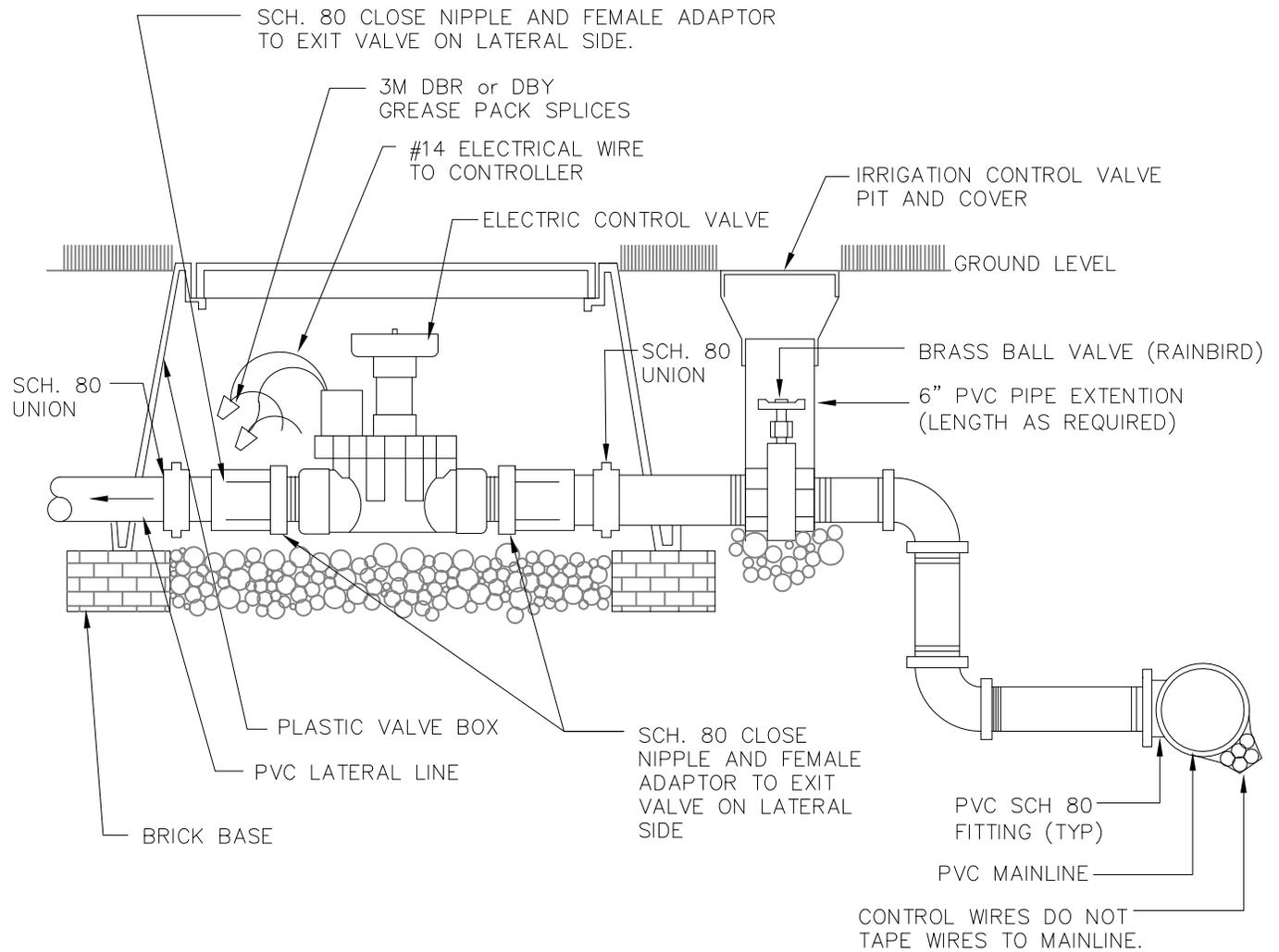
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# VALVE ASSEMBLY

PLAN  
PK-055



EACH AUTOMATIC CONTROL VALVE NEEDS TO HAVE ITS OWN ISOLATION VALVE (BRASS BALL VALVE)  
NO BOTTOM FED AUTOMATIC CONTROL VALVES

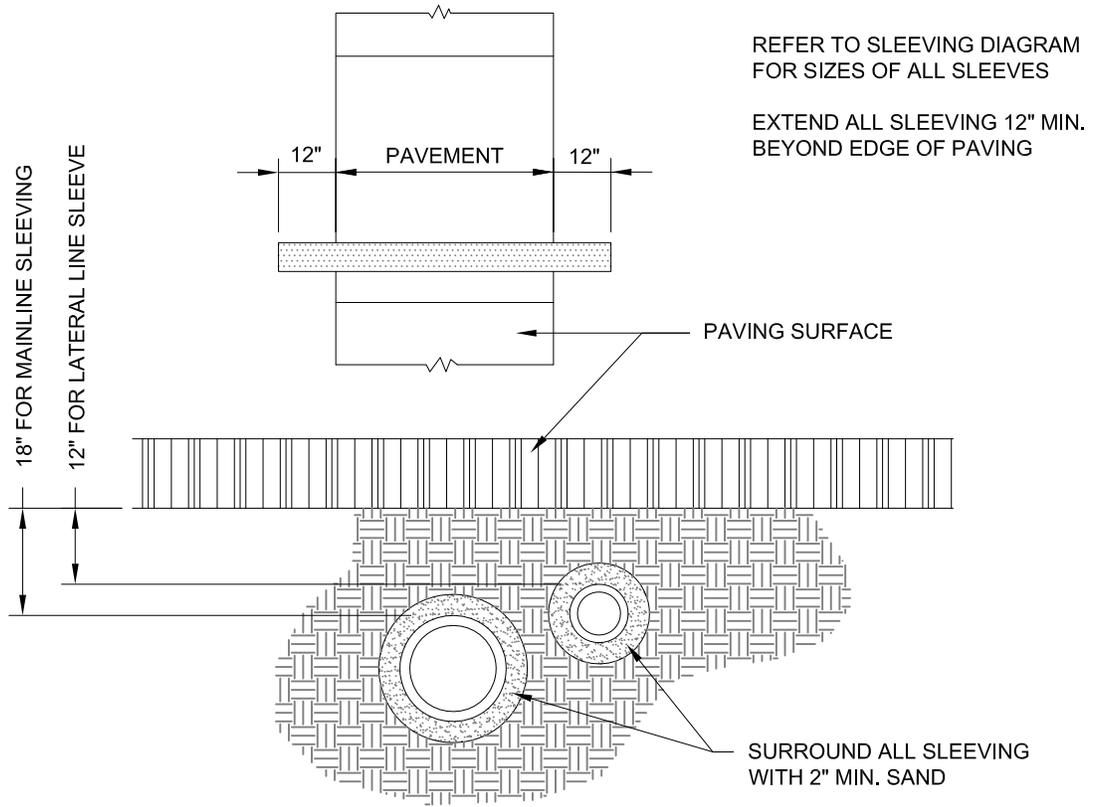
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# VALVE ASSEMBLY

PLAN  
PK-060



SLEEVE SIZE CHART

PIPE SIZE	MIN. SLEEVE SIZE
3/4"	1 1/2"
1"	2"
1 1/4"	2 1/2"
1 1/2"	2 1/2"
2"	3"
2 1/2"	4"
3"	4"
4"	6"
6"	8"

WHEN MULTIPLE PIPES OCCUR IN ONE TRENCH, ADD REQUIRED SLEEVE SIZES TOGETHER FOR 1 SIZE

WIRES SHALL BE IN SEPERATE CONTUIT AS PER CHART BELOW

WIRE CONDUIT SIZES

NUMBER OF WIRES	MIN. CONDUIT SIZE
1-4	3/4"
5-7	1"
8-11	1 1/2"
12-22	2"
23-31	2 1/2"
32-36	3"

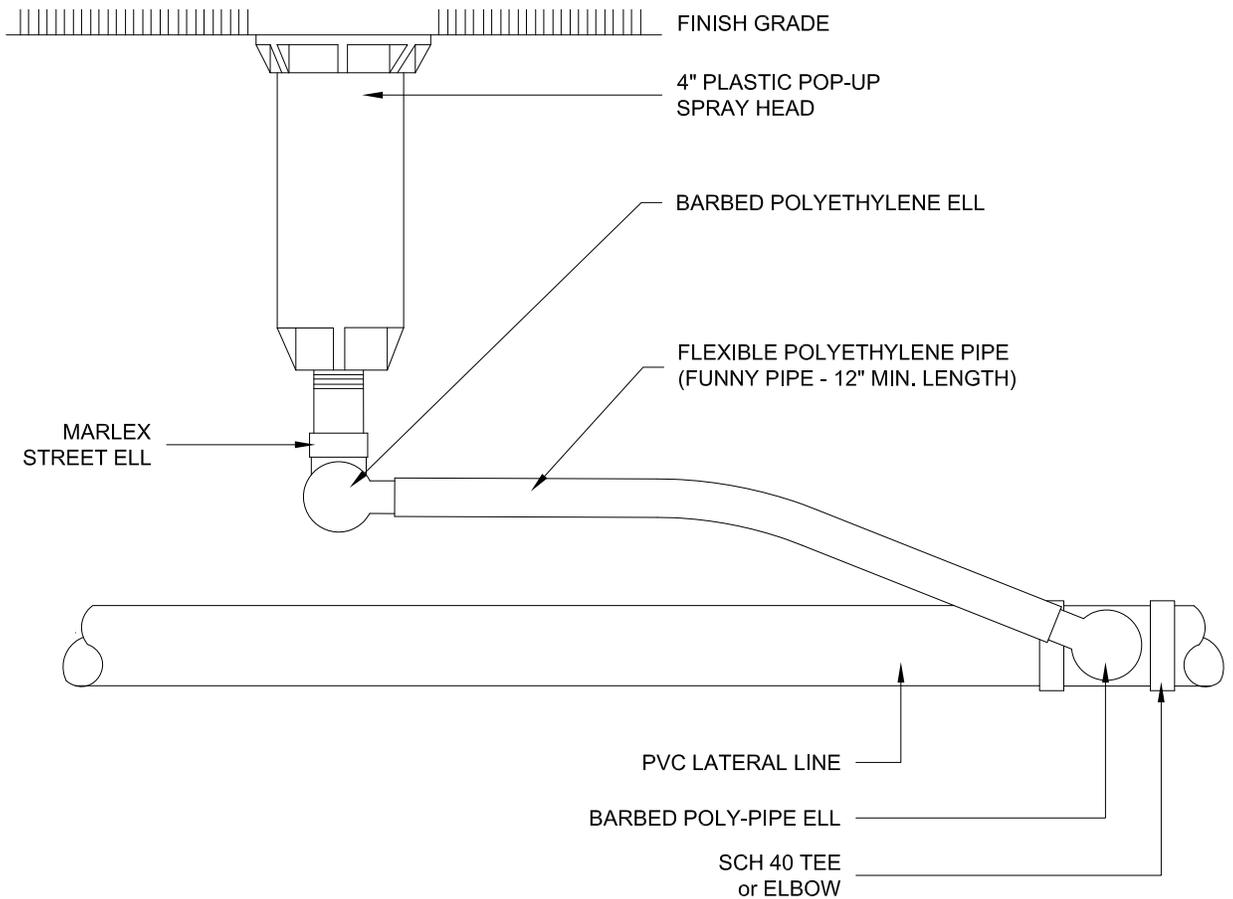
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# SLEEVING

PLAN  
PK-065



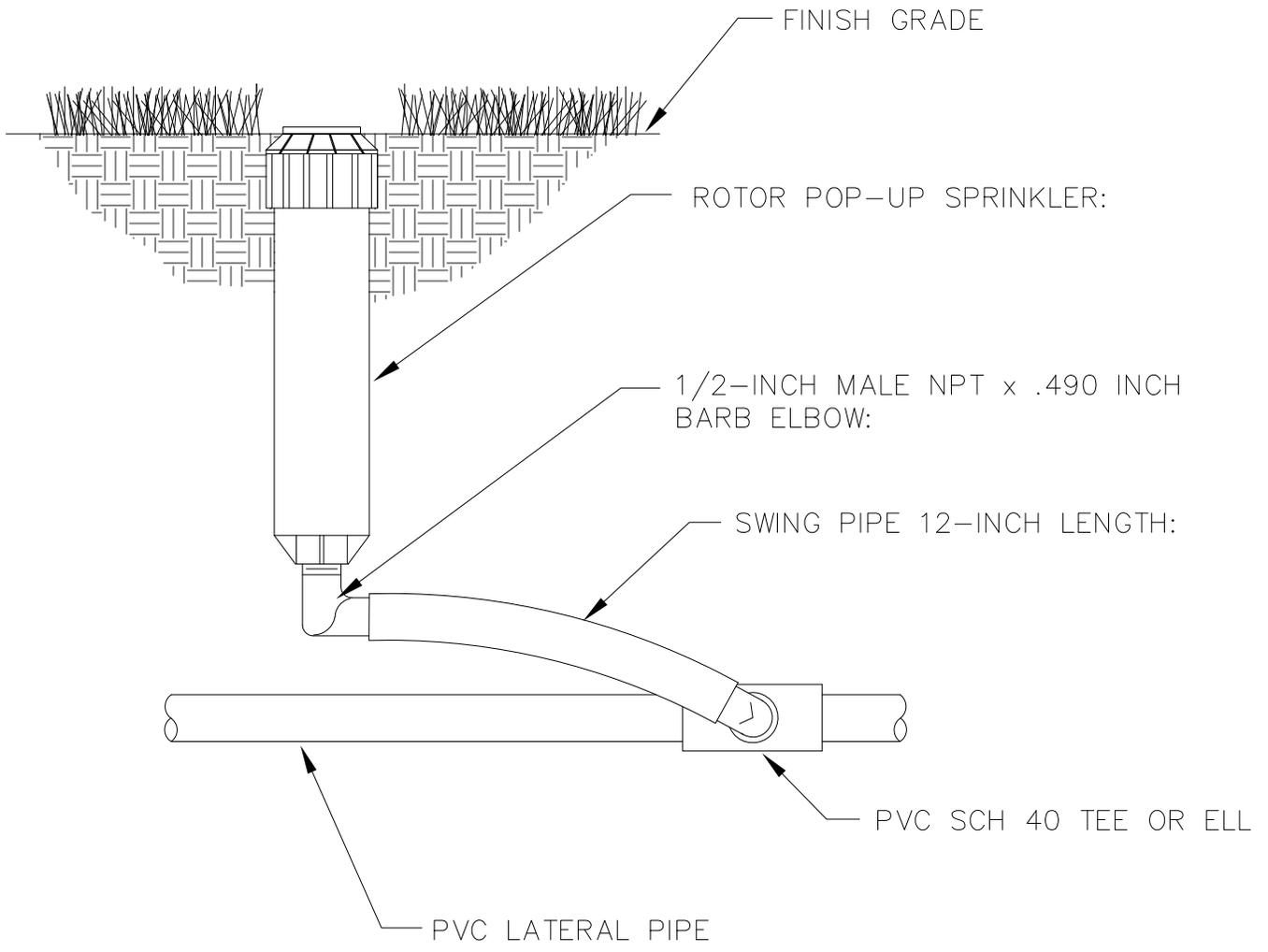
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# SPRAY POP-UP

PLAN  
PK-070



NOTE:

FOR FLOWS ABOVE 4 GPM USE A SWING JOINT INSTEAD OF SWING PIPE OR SWING ASSEMBLY.

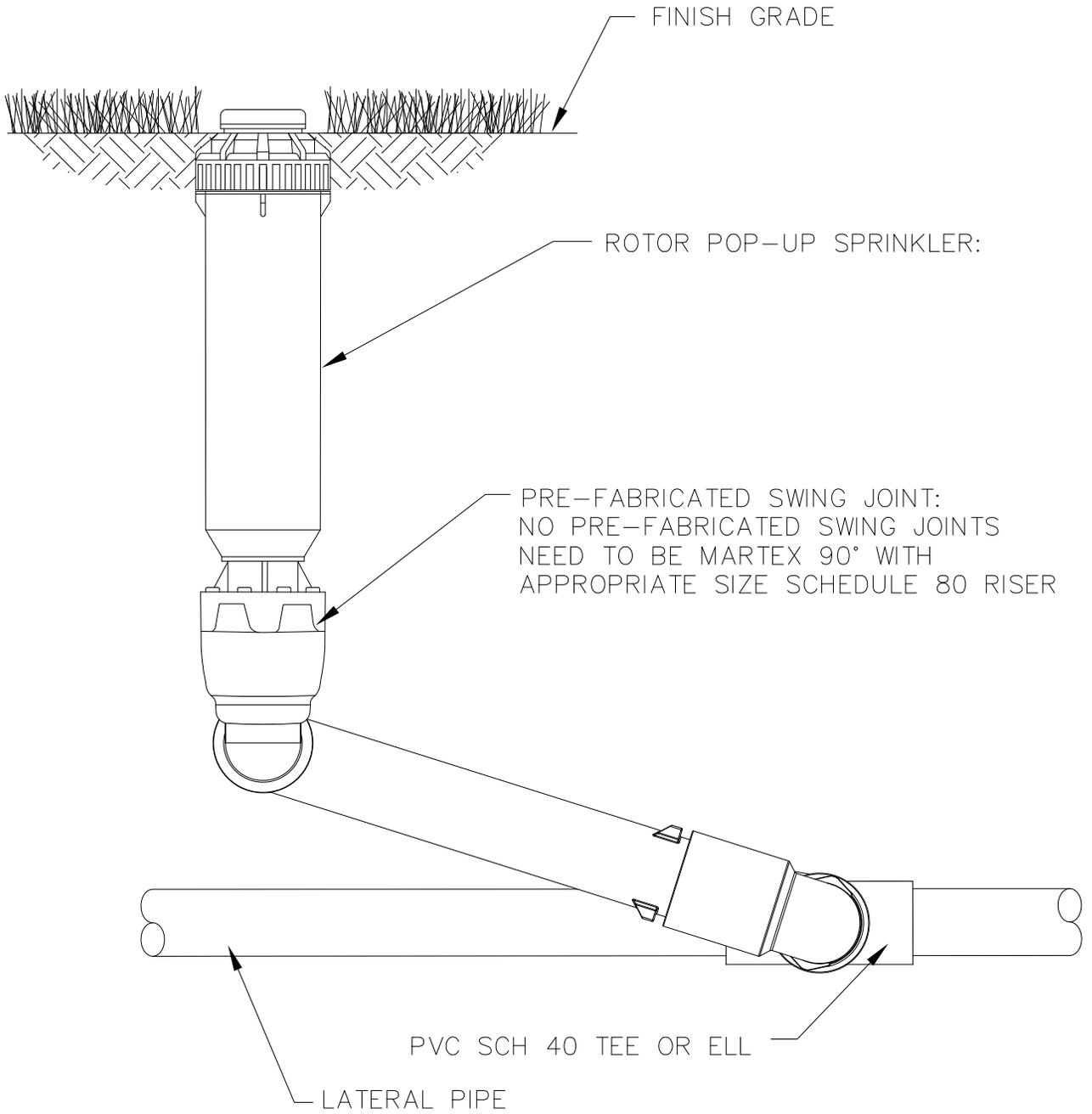
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# ROTOR POP-UP SPRINKLER

PLAN  
PK-075



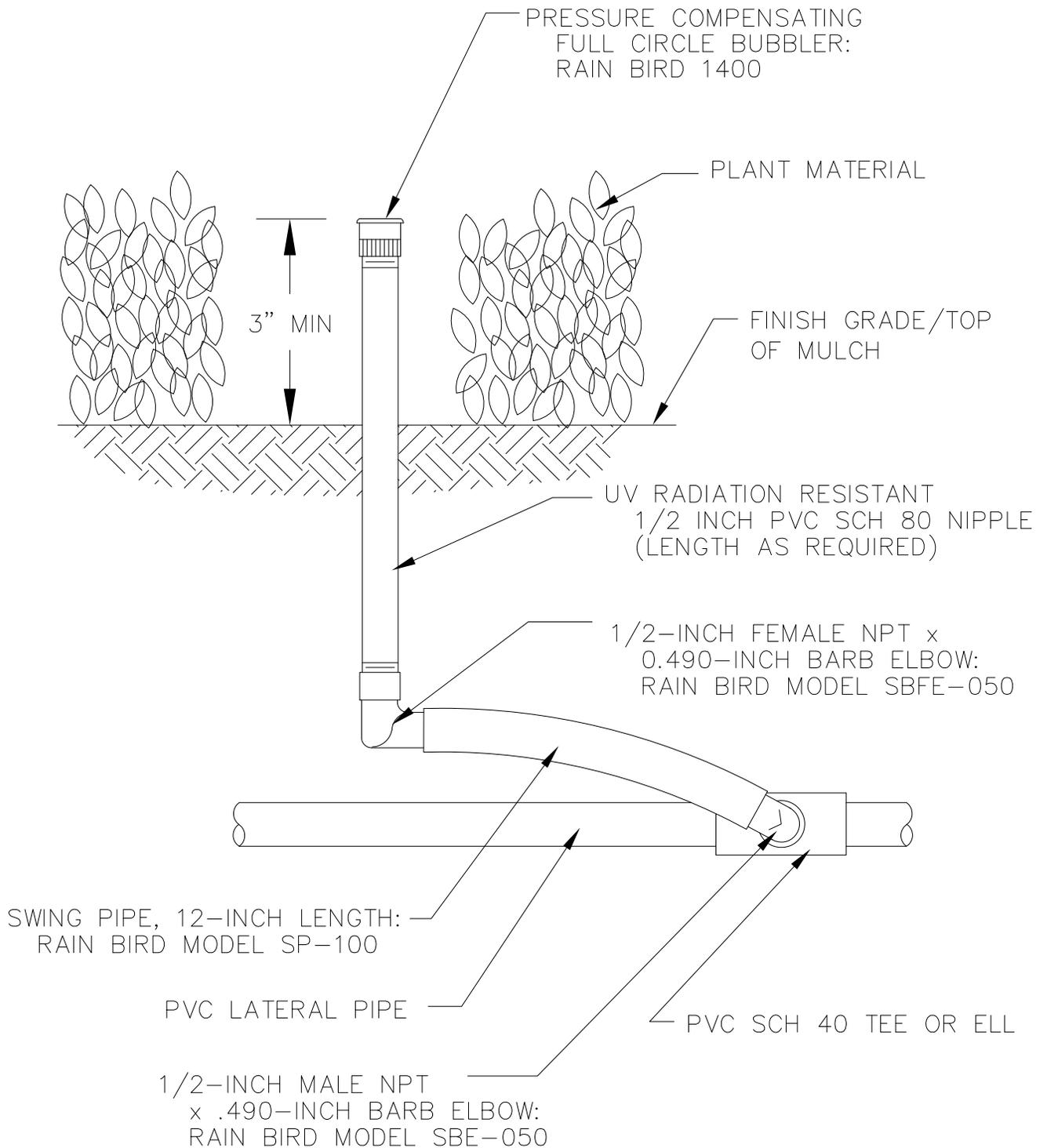
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**BIG ROTOR POP-UP SPRINKLER**

PLAN  
**PK-080**



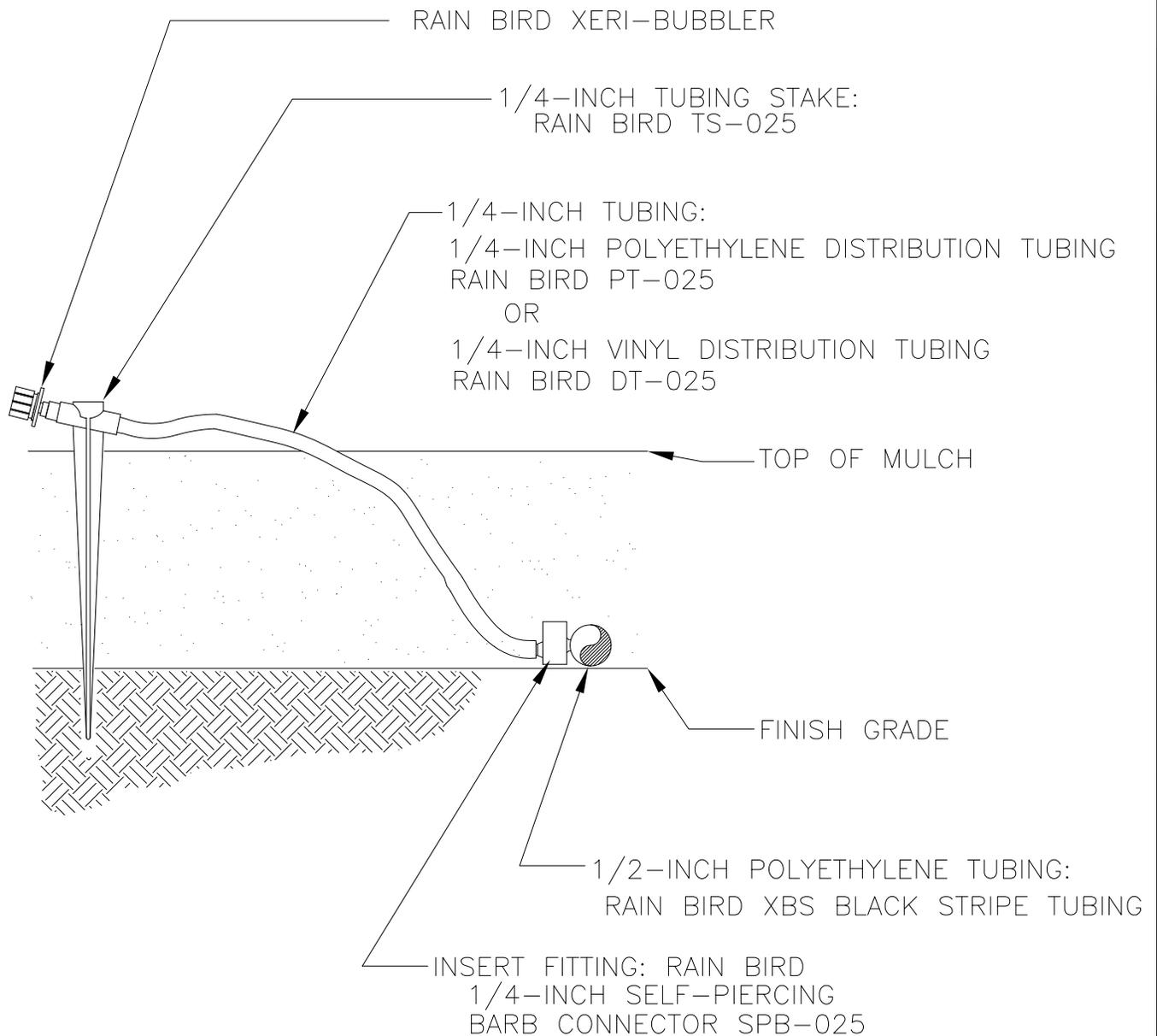
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**PRESSURE COMPENSATING FULL-CIRCLE BUBBLER**

PLAN  
**PK-085**



NOTE:

USE XERIMAN TOOL XM-TOOL TO INSERT CONNECTOR DIRECTLY INTO 1/2-INCH POLYETHYLENE TUBING.

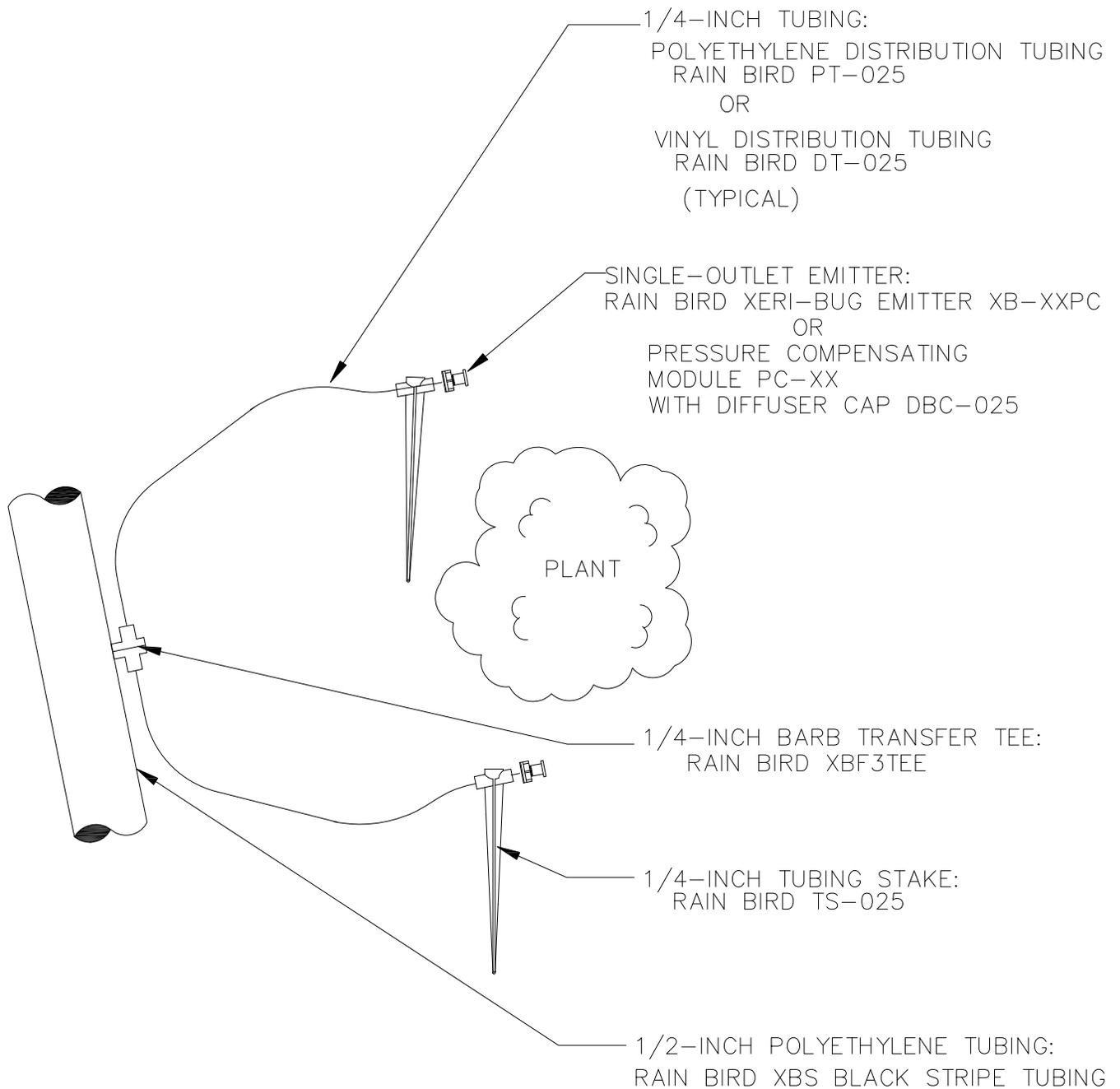
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**XERI-BUBBLER ON 1/4" TUBING**

PLAN  
**PK-090**



NOTE:

USE XERIMAN TOOL XM-TOOL TO INSERT CONNECTOR DIRECTLY INTO 1/2-INCH POLYETHYLENE TUBING.

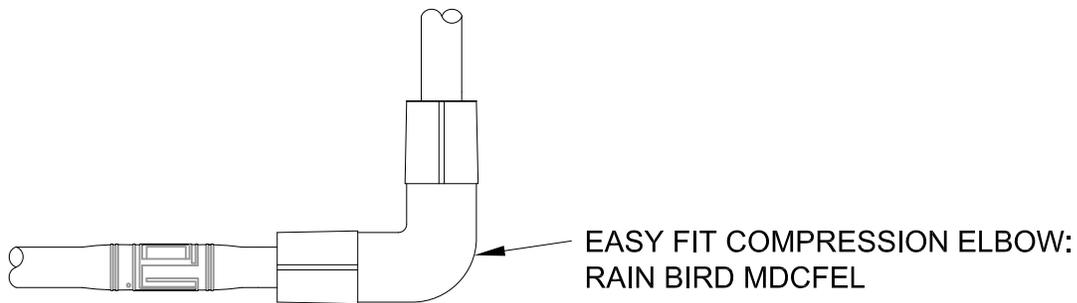
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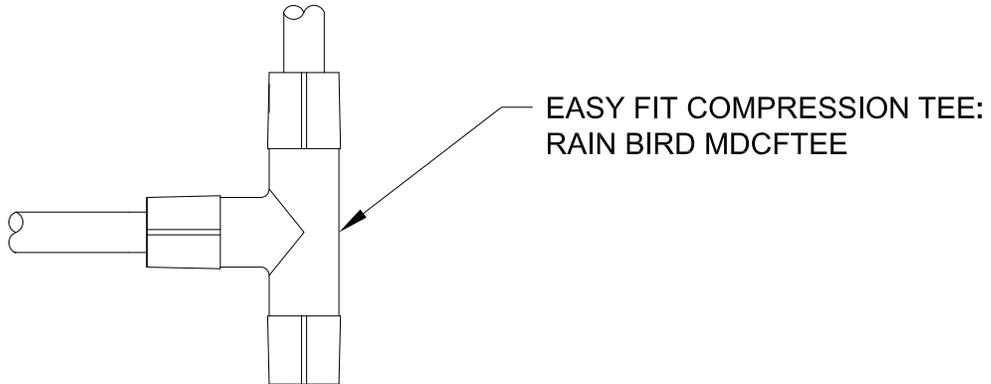


**EMITTERS AROUND PLANT  
ON 1/4 INCH TUBING**

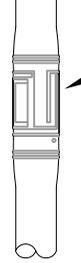
PLAN  
**PK-095**



EASY FIT COMPRESSION ELBOW:  
RAIN BIRD MDCFEL



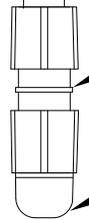
EASY FIT COMPRESSION TEE:  
RAIN BIRD MDCFTEE



LANDSCAPE DRIPLINE TUBING:  
RAIN BIRD LANDSCAPE DRIPLINE  
LD-XX-XX  
OR  
RAIN BIRD PURPLE LANDSCAPE  
DRIPLINE LDP-XX-XX



1/2-INCH POLYETHYLENE PIPE:  
RAIN BIRD XBS  
BLACK STRIPE TUBING



EASY FIT COMPRESSION COUPLING:  
RAIN BIRD MDCFCOUP



EASY FIT COMPRESSION FLUSH CAP:  
RAIN BIRD MDCFCAP  
OR  
EASY FIT PURPLE COMPRESSION FLUSH CAP:  
RAIN BIRD MDCFPCAP

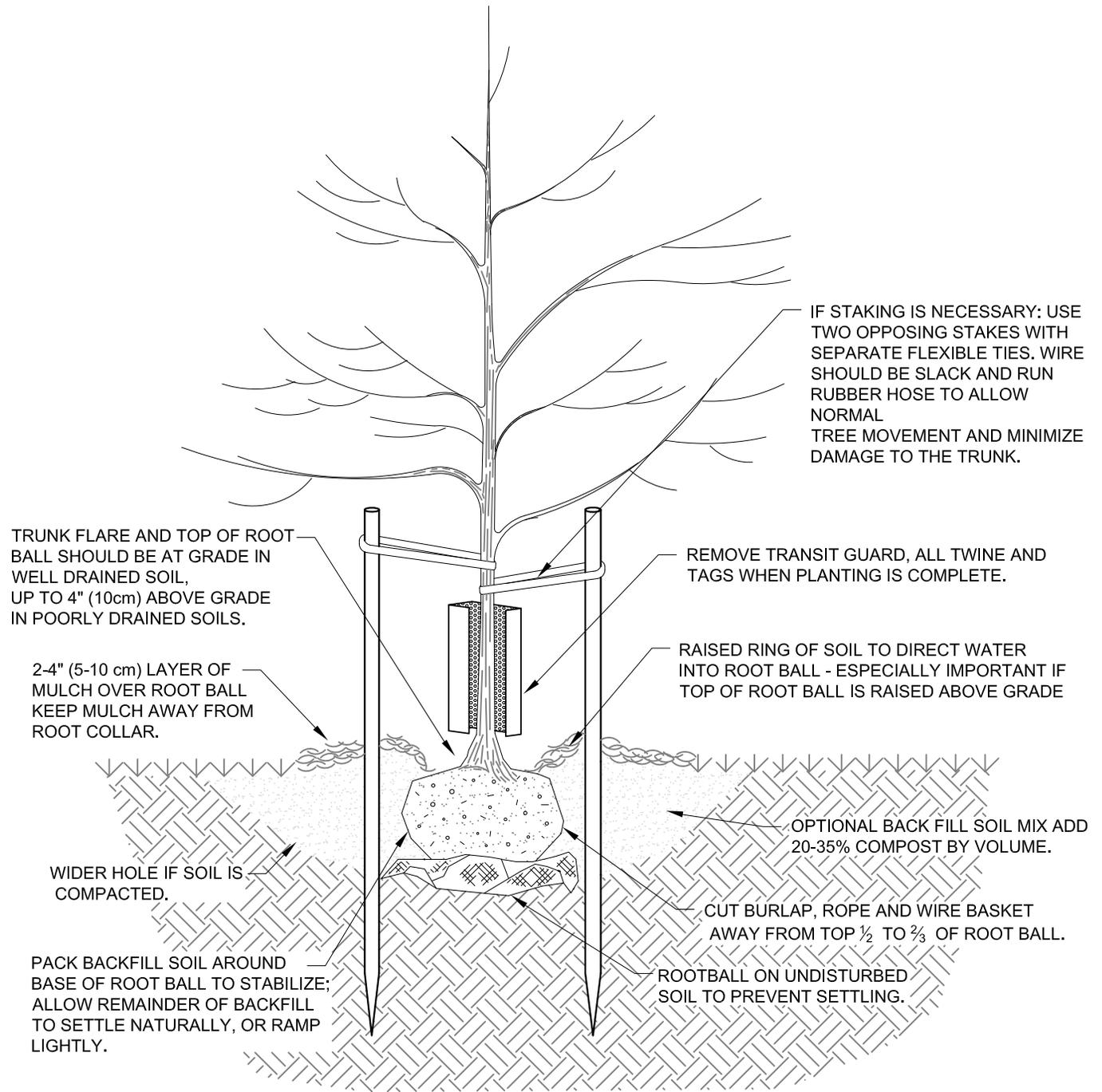
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# EASY FIT COMPRESSION FITTINGS

PLAN  
PK-100



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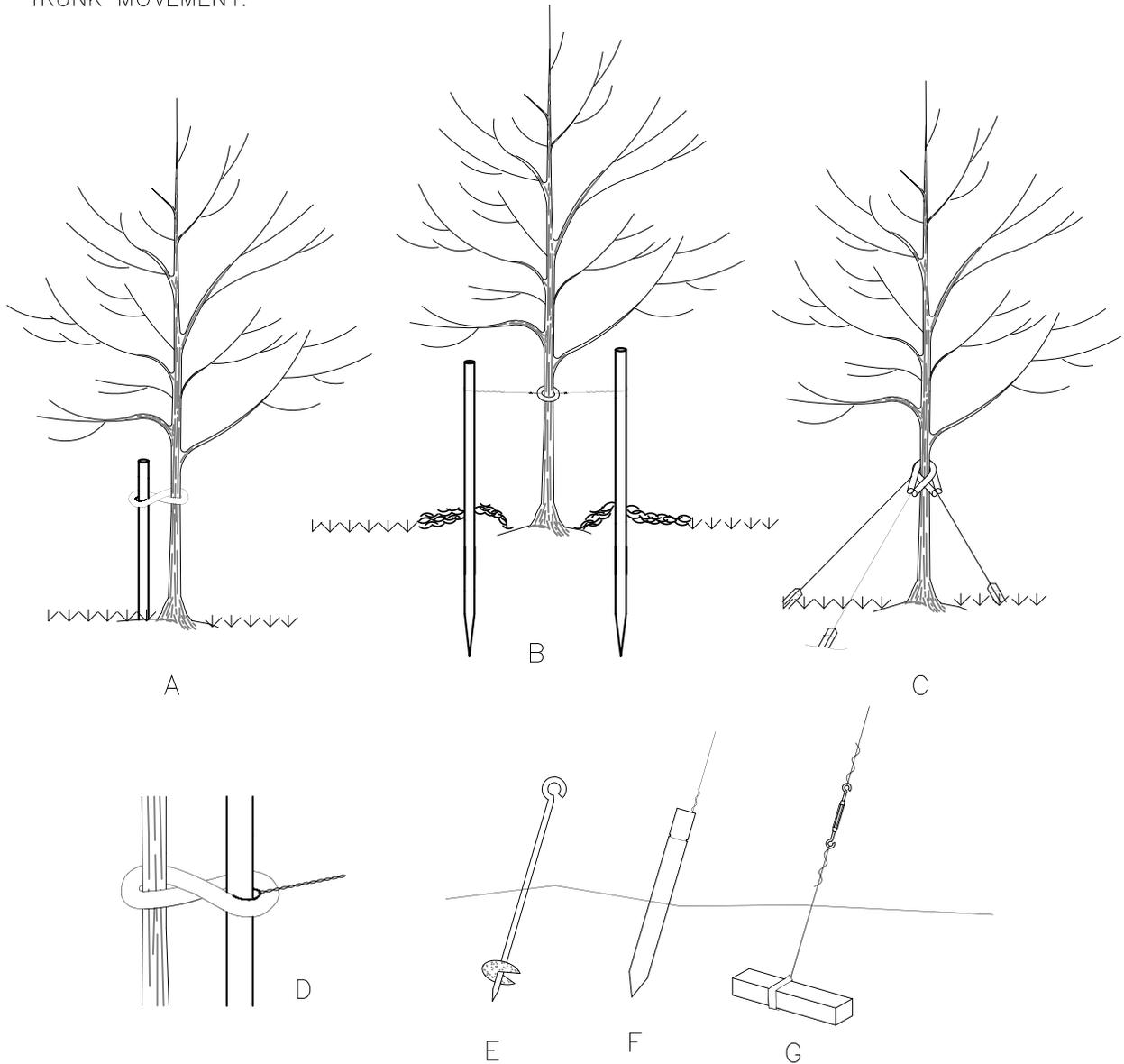
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# TREE PLANTING & STAKING

PLAN  
PK-105

A SINGLE STAKE IS OFTEN USED ON SMALL TREES. A SINGLE STAKE SHOULD BE PLACED ON THE SIDE OF THE TREE TOWARD THE PREVAILING WINDS SO THE TREE IS BLOWN AWAY FROM THE STAKE. TWO STAKES, WITH SEPARATE FLEXIBLE TIES IS USUALLY RECOMMENDED. IT IS OFTEN EASIER TO INSTALL STAKES BEFORE THE HOLE IS BACKFILLED. GUY WIRES ARE USED ON LARGER TREES. THE GUYS ARE BEST SECURED BY SPECIALLY DESIGNED LAND ANCHORS OR DEADMEN BURIED IN THE SOIL, AND THEY SHOULD BE AT A 45-DEGREE ANGLE WITH THE TRUNK. GALVANIZED STEEL CABLE IS BEST. TURNBUCKLES CAN BE INSTALLED TO ADJUST THE LENGTH. COMPRESSION SPRINGS CAN PROVIDE FLEXIBILITY FOR TRUNK MOVEMENT.



THREE METHODS OF STAKING AND GUYING TREES. A SINGLE STAKE USED FOR TREES UP TO 2IN (5CM) IN DIAMETER. THE TREE IS ATTACHED TO THE STAKE BY MEANS OF A WIRE RUN THROUGH A PIECE OF HOSE (D), B TREES 2 TO 4IN (5 TO 10CM) IN DIAMETER ARE SUPPORTED BY TWO OR THREE STAKES. ATTACHMENT IS THE SAME AS IN A, AND THE STAKES SHOULD BE PLACED SO THE BRANCHES DO NOT RUB AGAINST THEM. C TREES OVER 4IN (10CM) IN DIAMETER SHOULD BE GUYED WITH AT LEAST THREE GUYS. GABLE OR WIRE IS ATTACHED TO THE TREE BY RUNNING WIRES THROUGH A PIECE OF HOSE OR BY USING LAG HOOKS ON LARGE TREES, THE GUYS SHOULD BE SECURED TO ARROWHEAD SHAPED LAND ANCHORES (E), WOODEN STAKES (F), OR DEADMEN BURIED IN THE SOIL (G).

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## TREE PLANTING & STAKING

PLAN  
PK-110

## SUPPORT SYSTEM

STAKING, GUYING, OR BRACING REFERS TO THE METHOD OF MECHANICALLY SUPPORTING THE TRUNK OF A PLANTED TREE TO KEEP IT IN AN UPRIGHT POSITIONS. STAKING IS BOTH EXPENSIVE AND TIME COMSUMING AND MAY PRESENT A HAZARD FOR PEOPLE WHO MAY TRIP OR FALL OVER THE SUPPORTS. STAKING TOO RIGIDLY CAN REDUCE TRUNK TAPER ON SMALL TREES. SMALL TREES MAY BE TOO WEAK TO STAY UPRIGHT ON THEIR OWN WHEN THE STAKE IS REMOVED. IF THE WIRES ARE LEFT IN PLACE TOO LONG, THE TRUCK CAN BE GIRDLING CAN OCCUR.

BARE ROOT TREES, FABRIC BAG, AND CONTAINER-GROWN TREES WITH SMALL, LIGHTWEIGHT ROOT BALLS MY REQUIRE SUPPORT UNTIL LATERAL OR ANCHOR ROOTS DEVELOP, BUT SELDOM MORE THAN ONE YEAR. LARGE EVERGREENS MAY NEED TO BE GUYED FOR UP TO TWO YEARS BECAUSE OF THE WIND RESISTANCE OF THE FOLIAGE AND EXTRA WEIGHT OF SNOW AND ICE ACCUMULATION DURING THE WINTER WHEN THE SOIL IS WET. EXTREMELY WINDY CLIMATES, OR OTHER UNUSUAL CIRCUMSTANCES, MAY ALSO CALL FOR EXTENSIVE OF STAKES.

WHEN STKING IS NEEDED TO KEEP A TREE WITH A STRONG, STRAIGHT TRUNK IN THE UPRIGHT POSITION UNTIL THE ROOTS CAN GROW TO ANCHOR THE TREE, LOW STAKING CAN KEEP THE TREE IN PLACE WHILE PERMITTING THE TOP TO MOVE FREELY. IF THE TRUNK IS WEAK, SUPPORT THE TREE WITH A STAKE ABOUT 6 IN (15CM) ABOVE THE LOWEST LEVEL AT WHICH THE TRUCK CAN BE HELD UPRIGHT.

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# TREE PLANTING & STAKING

PLAN  
PK-110

SOIL MIX: for all trees, shrubs and ground cover shall be 30% existing soil excavated from plant hole, 30% imported loamy topsoil, 20% clean coarse sand and 20% peat moss.

PLACE AGRIFORM TABS: in each planting pit, buried 1/3 depth of ball.

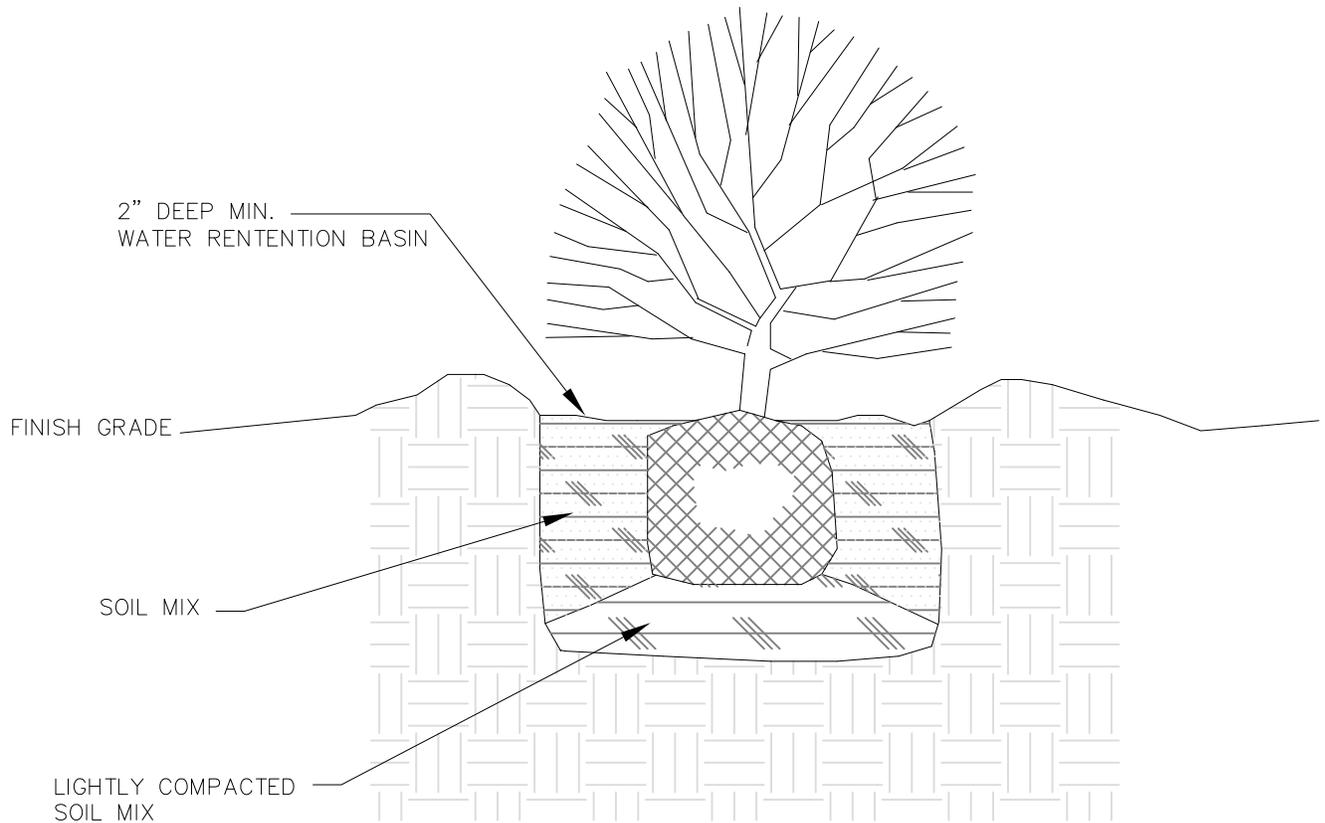
PLACE TABS AS FOLLOWS:

#1 & #2 size - 1 tab

#5 size - 2 tabs

1 1/2" cal. & up - 3 tabs

PLACE TABS: no closer than 18" apart.



TYPICAL SHRUB PLANING DEPTH:  
Depth of ball plus 3"

TYPICAL SHRUB PLANING WIDTH:  
Width of ball plus 6"

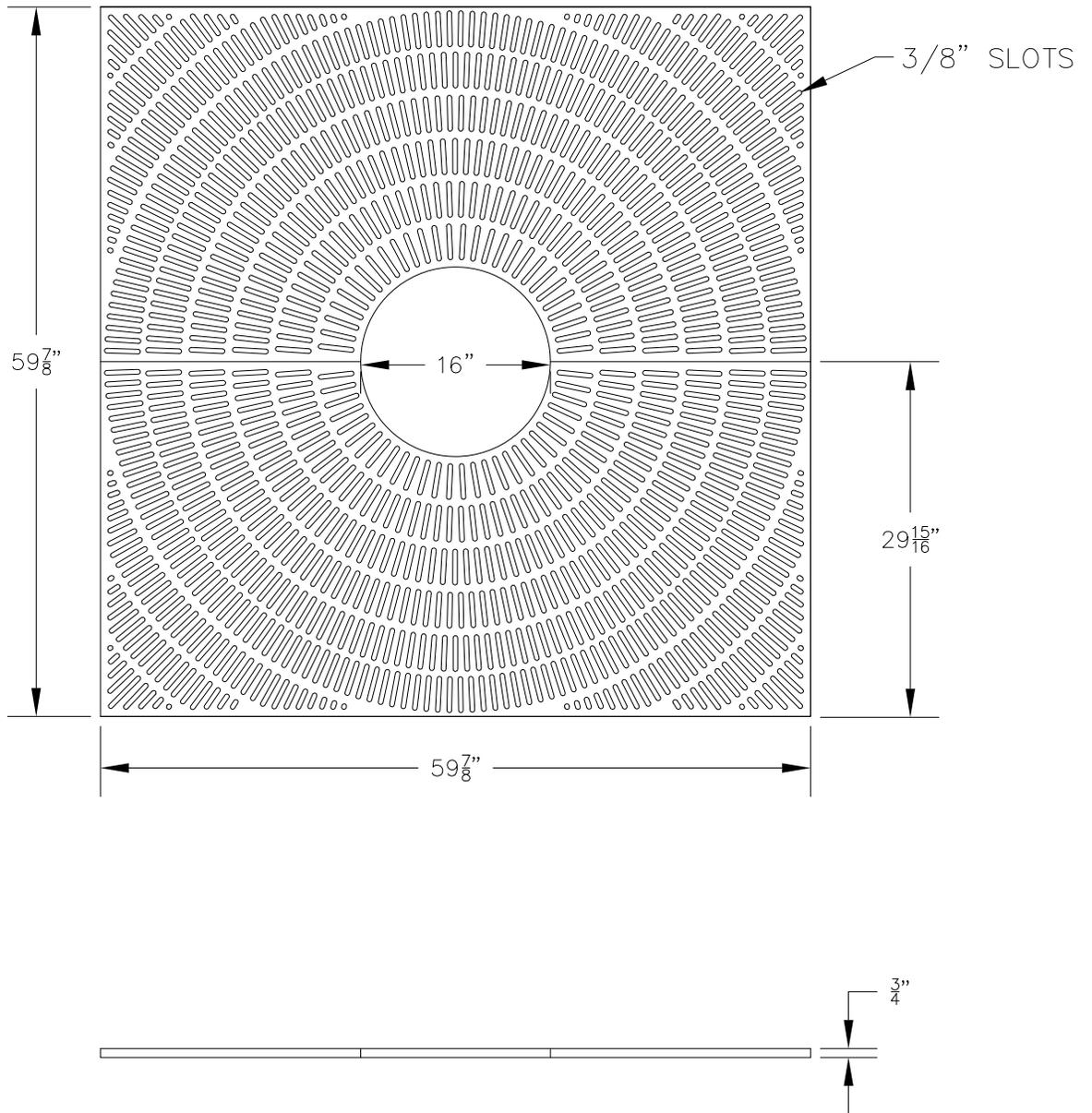
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## SHRUB PLANTING DETAIL

PLAN  
PK-115



NOTES:  
 MATERIAL; DUCTILE CAST IRON ASTM, A536, CL 80-55-06  
 TWO PIECE SET  
 3/4" THICK GRATE

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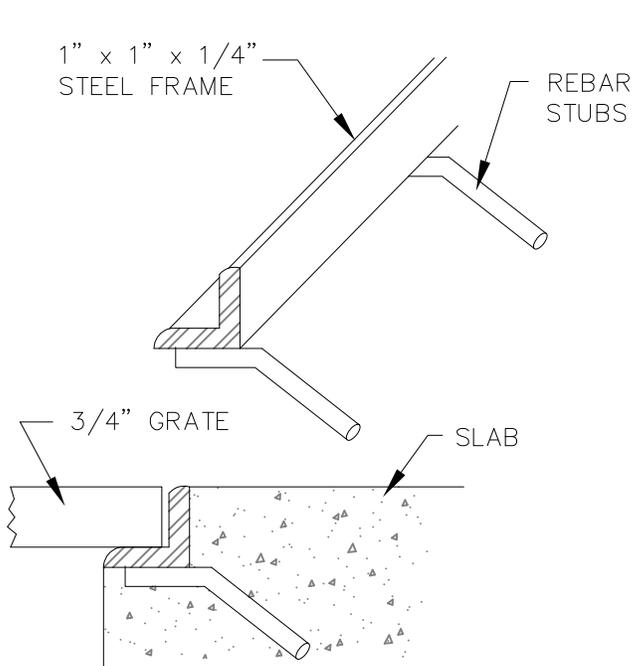
City of West Jordan, Utah

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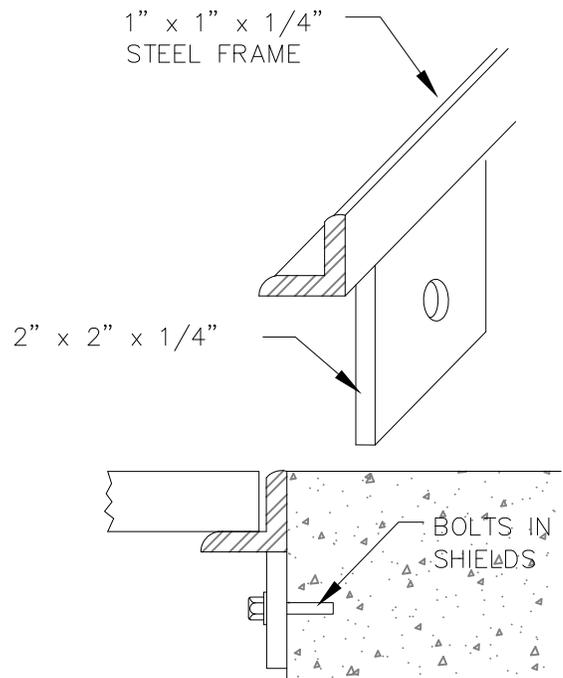


**60 " SQUARE STYLE "STA" TREE GRATE  
 FRAMING**

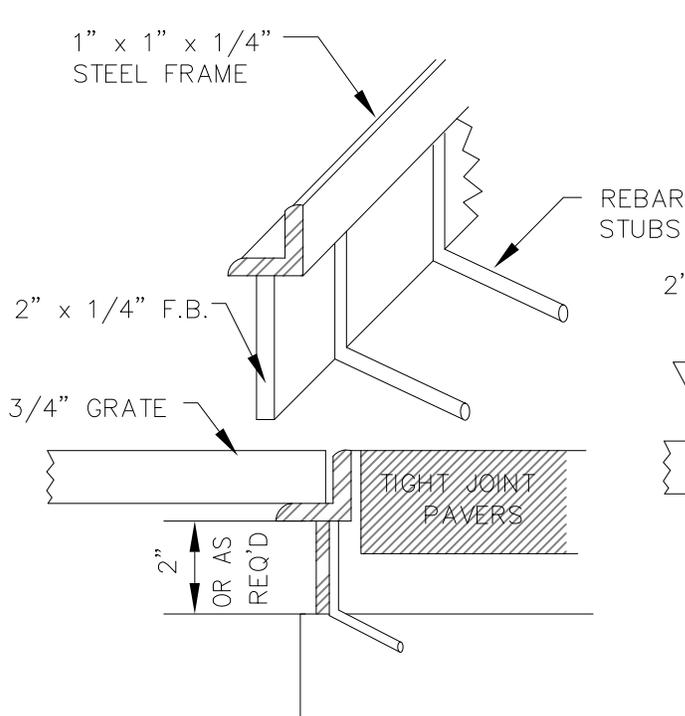
PLAN  
**PK-120**



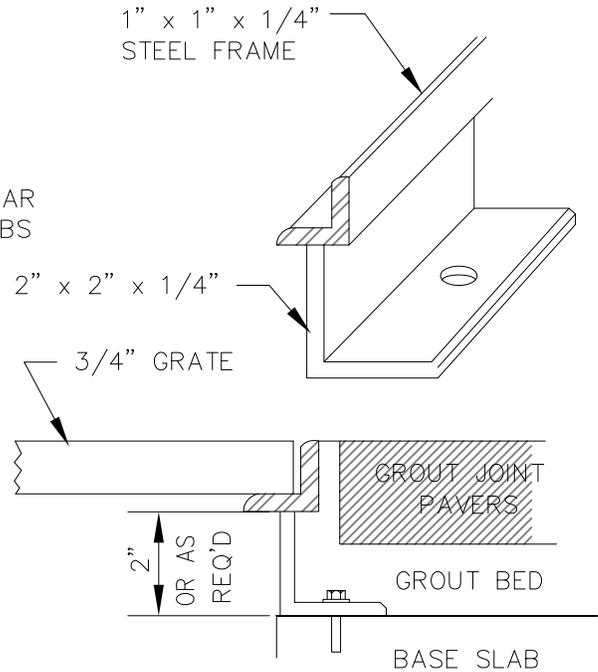
STYLE "C1" (FOR NEW SLAB)



STYLE "RF" (FOR EXISTING SLAB)



STYLE "CIP" (FOR PAVING WITH NEW SUBSLAB, SAND SETTING BED)



STYLE "AP" (FOR EXISTING SUBSLAB GROUT SETTING BED)

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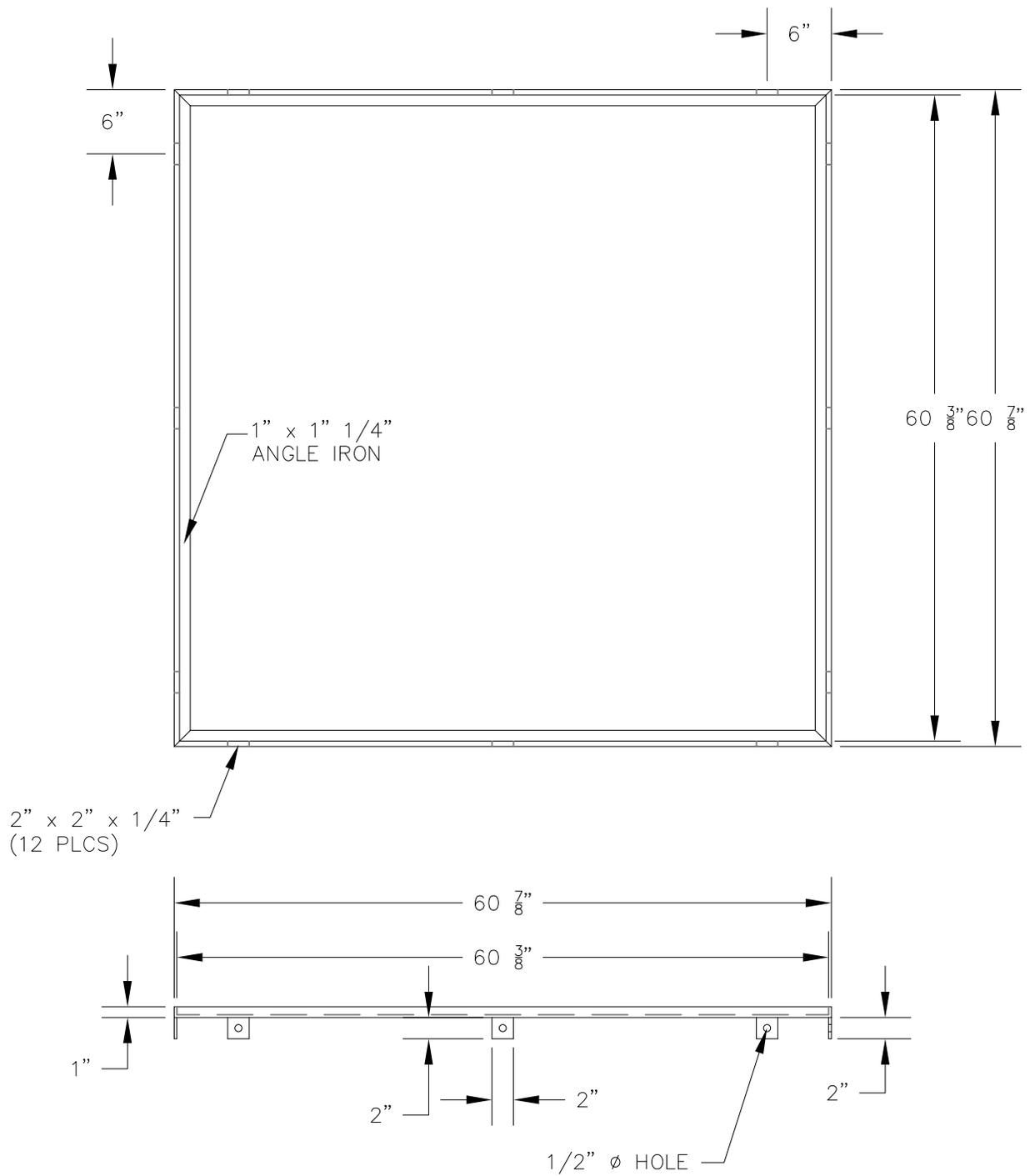
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# TREE GRATE FRAMES FRAMING

PLAN  
PK-125



NOTES:  
 FABRICATED MILD STEEL  
 FURNISHED BARE UNLESS OTHERWISE SPECIFIED

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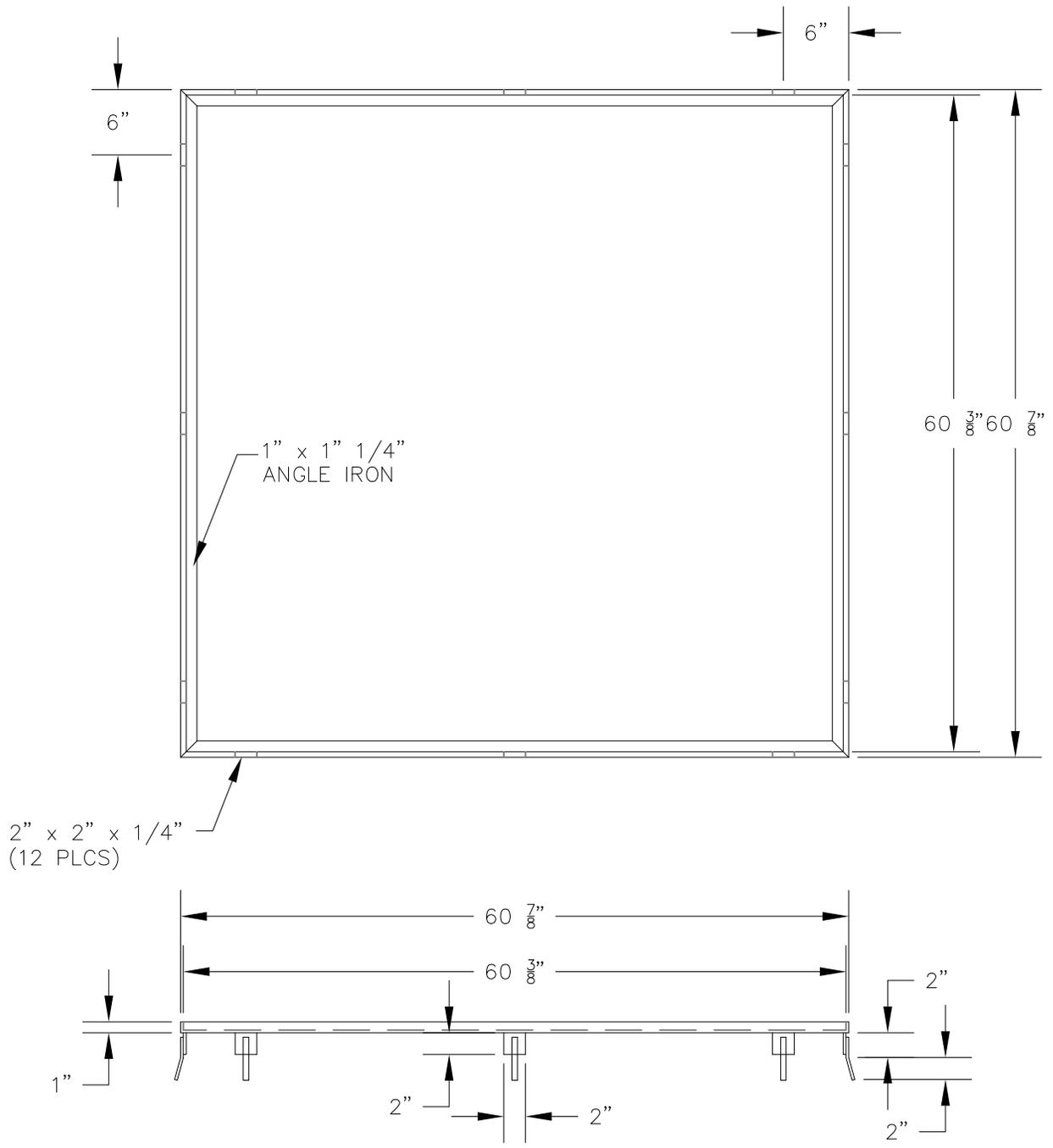
City of West Jordan, Utah

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# TREE GRATE FRAMES FRAMING

PLAN  
**PK-130**



NOTES:  
 FABRICATED MILD STEEL  
 FURNISHED BARE UNLESS OTHERWISE SPECIFIED

DRAWING DATE MARCH 25, 2009

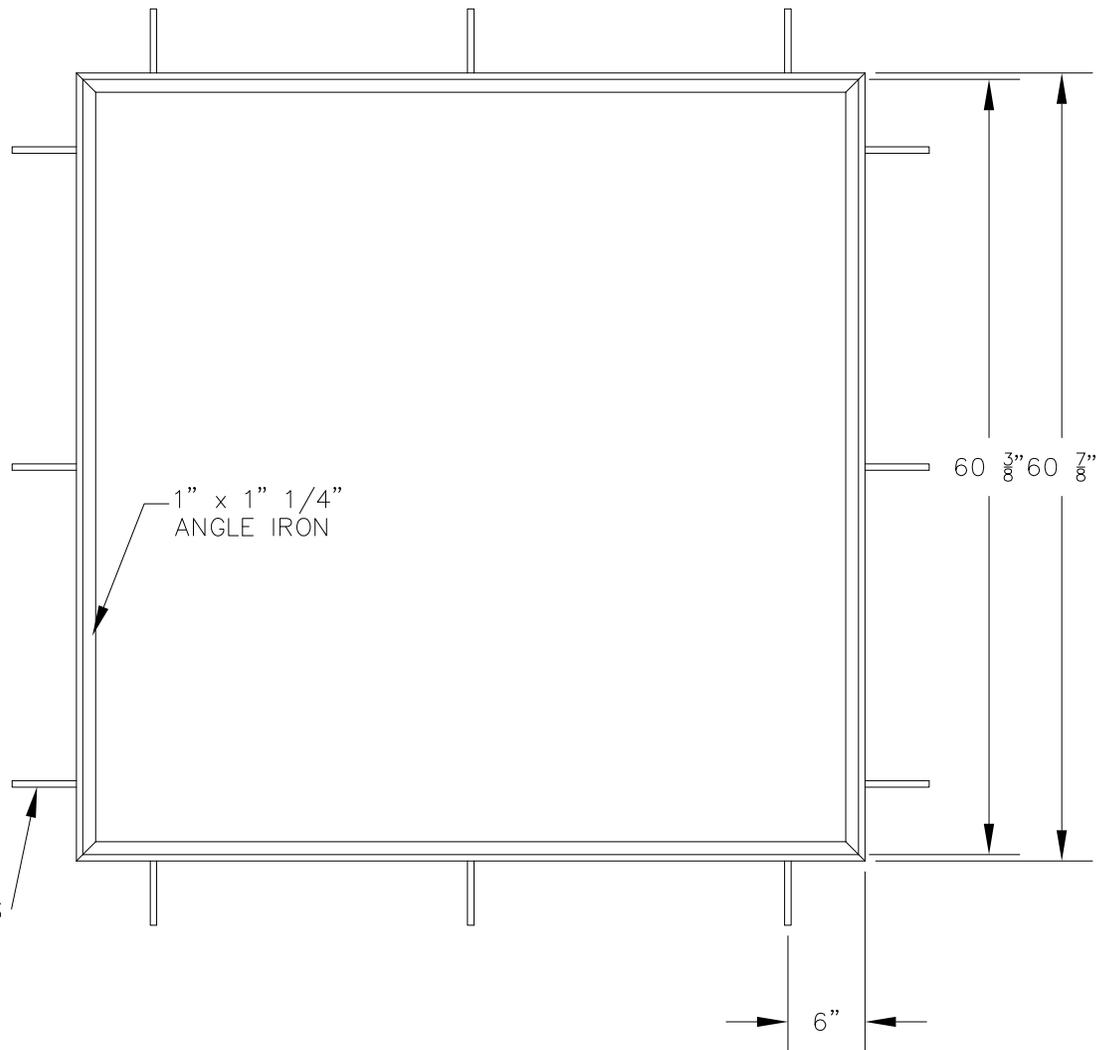
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# TREE GRATE FRAMES FRAMING

PLAN  
PK-135



NOTES:  
 FABRICATED MILD STEEL  
 FURNISHED BARE UNLESS OTHERWISE SPECIFIED

DRAWING DATE MARCH 25, 2009

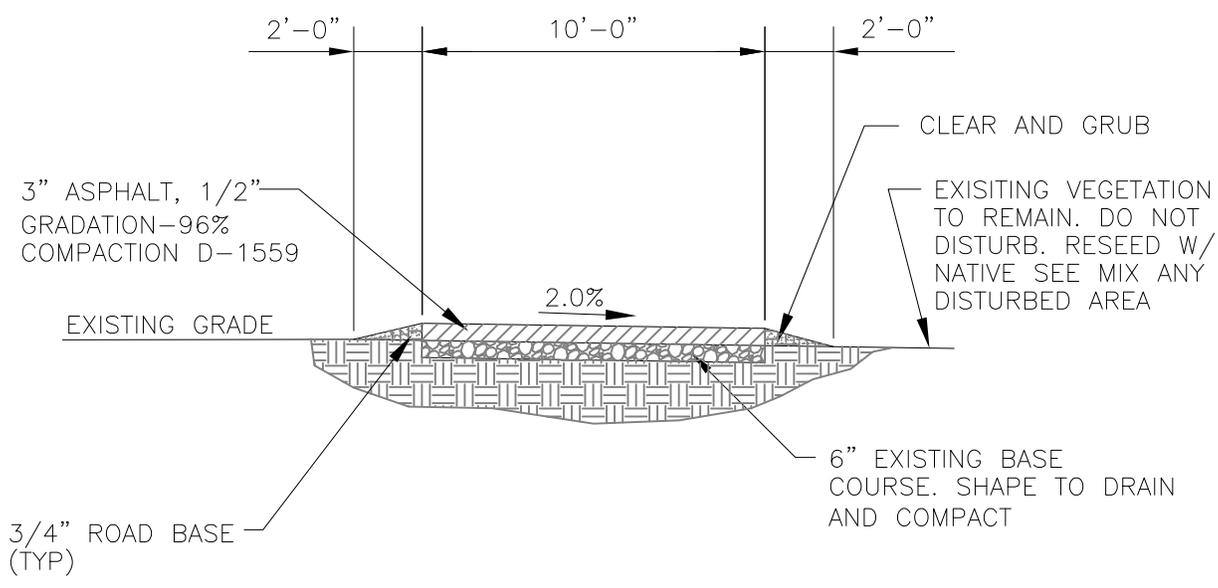
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# TREE GRATE FRAMES FRAMING

PLAN  
**PK-140**



NOTE:  
 EXISTING BASE & NEW SUBGRADE SHALL BE SPRAYED WITH A HIGH POTENCY HERBICIDE SUCH AS PRAMITOL, OR APPROVED EQUAL. APPLICATION SHALL BE PER MANUFACTURERS SPECIFICATIONS.

PAVE EXISTING TRAIL CROSS SECTION  
 TYP

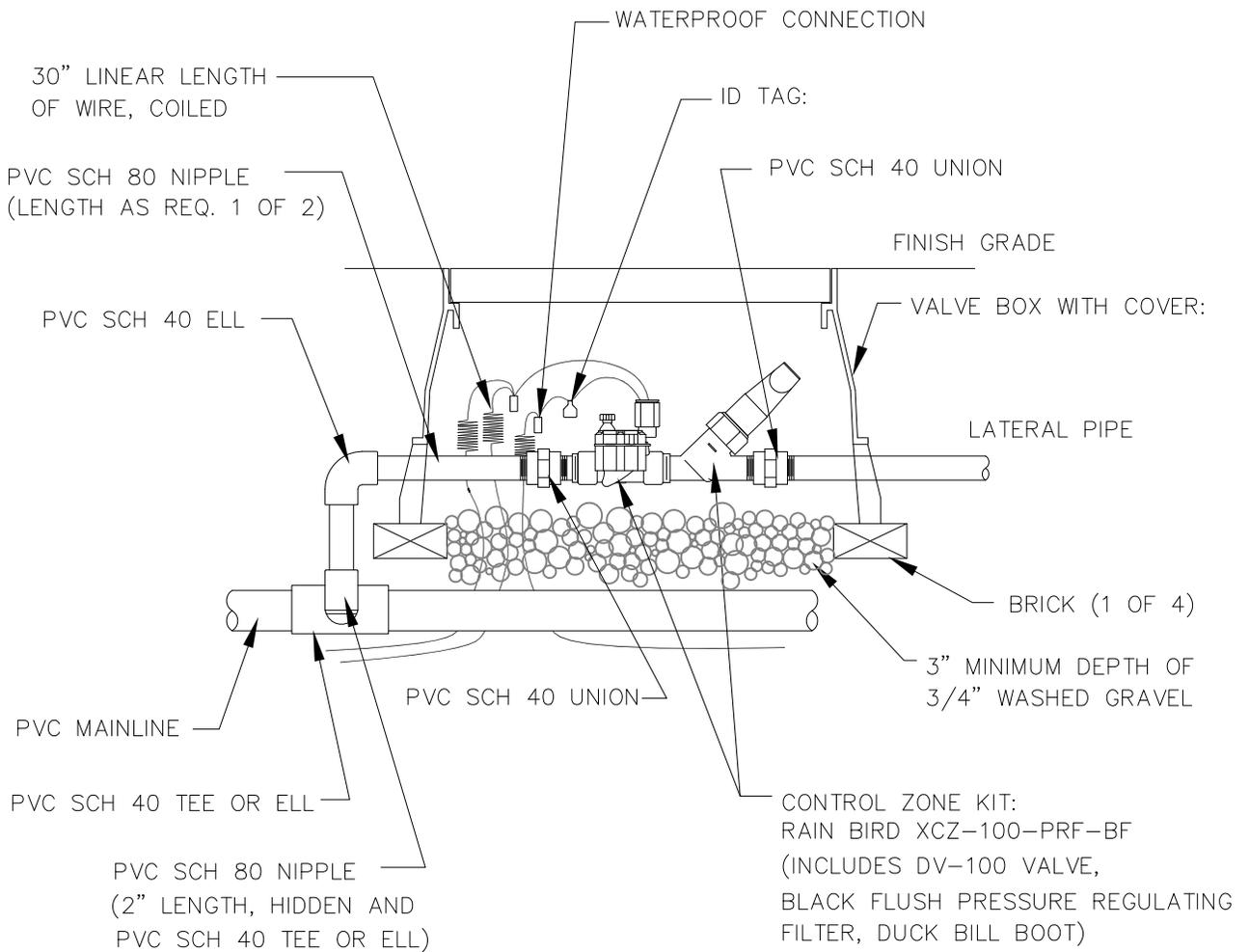
DRAWING DATE MARCH 25, 2009

City of West Jordan, Utah



**TRAIL CROSS SECTION**

PLAN  
**PK-145**



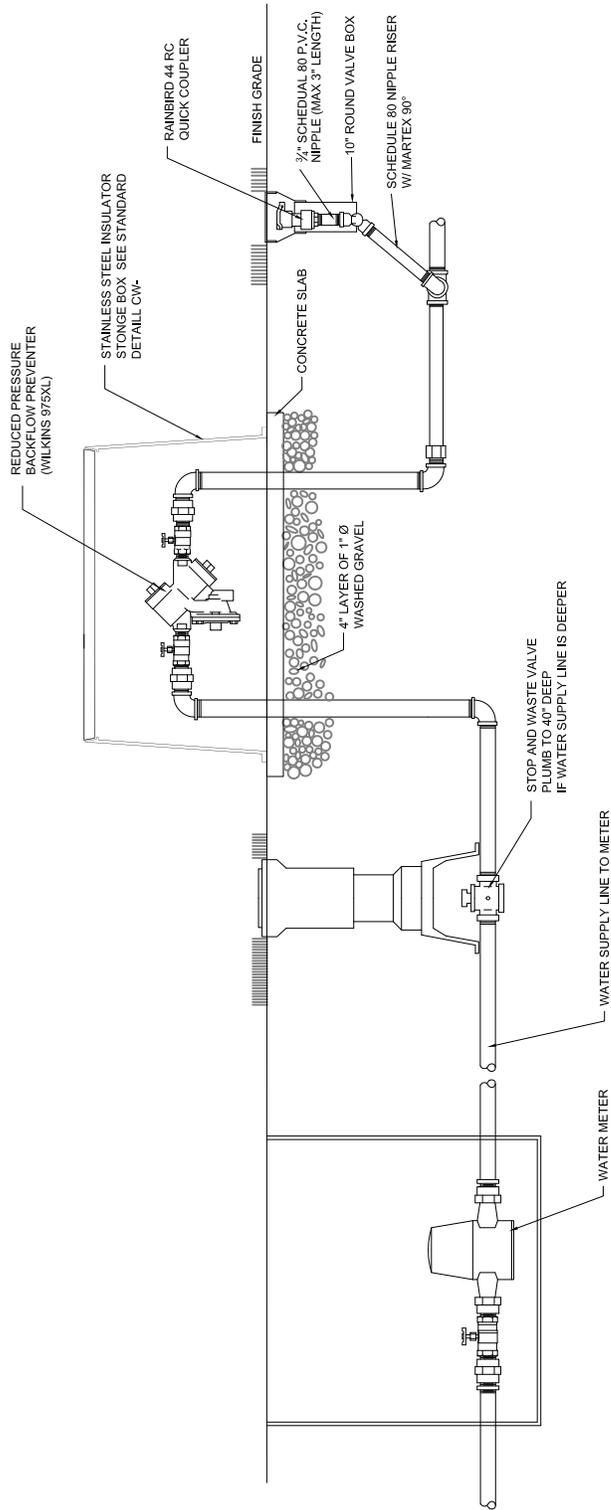
DRAWING DATE MARCH 25, 2009

City of West Jordan, Utah



**1" CONTROL ZONE KIT W/ PRESSURE  
REGULATING BLACKFLUSH FILTER**

**PLAN  
PK-150**



DRAWING DATE MARCH 25, 2009

City of West Jordan, Utah



# PRESSURE REDUCER BACKFLOW PREVENTER

PLAN  
**PK-155**