

MEMORANDUM

TO: Planning Commission

FROM: Matt Holmes, City Engineer

SUBJECT: Public Hearing – Hyrum City Irrigation and Landscape Design Standards and

Specifications – Landscaping(Parks Department)

DATE: March 31, 2025

PLANNING COMMISSION AGENDA:

April 10, 2025

OVERVIEW:

The Parks Department has presented a set of design standards and specifications for all public landscaping to be used in all city owned parks and facilities. These drawings are to bring consistency and quality to all installation jobs within any land that is to be built by developers to be turned over to the city as well as all city-initiated improvements. This is not intended to be used on privately maintained irrigation systems.

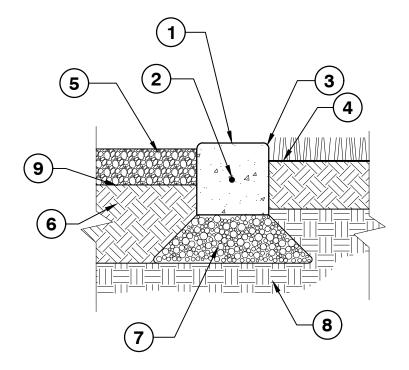
ATTACHMENTS:

1. Hyrum City Irrigation and Landscape Design Standards and Specifications, dated March 2025.



HYRUM CITY IRRIGATION & LANDSCAPE DESIGN STANDARDS & SPECIFICATIONS

MARCH 2025



- 6" SQUARE CONCRETE MOWSTRIP
- 2) #3 REINF. BAR CONT. OVERLAP 12" AT SPLICES
- 3 1/2" RADIUS TROWELED EDGE
- FINISH GRADE 1"
 BELOW TOP OF
 MOWSTRIP FOR
 SOD
- (5) ROCK MULCH
- (6) TOP SOIL
- 6" COMPACTED AGGREGATE BASE
- 8 UNDISTURBED OR COMPACTED SUBGRADE
- (9) INSTALL WEED BARRIER

NOTE: PROVIDE CONSTRUCTION OR CONTROL JOINTS AT 5' O.C. MAX.

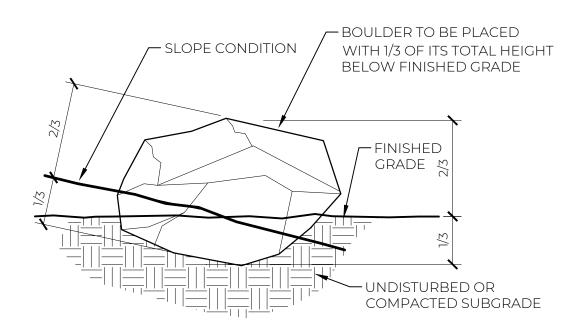


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

CONCRETE MOWSTRIP

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١	REVISION:	
	DATE: 8/19/2023	





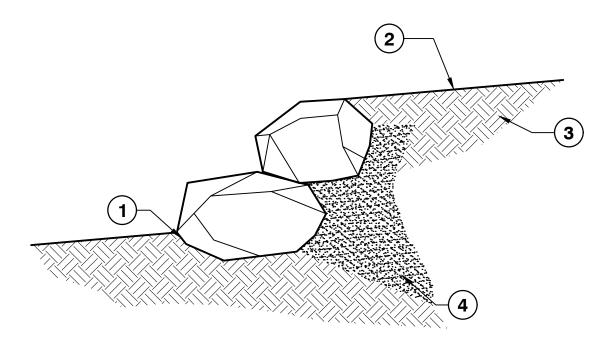
HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

LANDSCAPE BOULDER

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DATE: 8/19/2023	

- MINIMUM 12" EMBEDMENT BELOW ADJACENT GRADE
- (2) FINISH GRADE
- 3 COMPACTED BACKFILL
- 4 CLEAN, FREE DRAINING GRANULAR FILL 12" THICK MIN. BEHIND ROCK



- 1. MAXIMUM WALL HEIGHT SHALL BE 4 FEET FROM BOTTOM OF EMBEDDED BOULDER TO TOP OF HIGHEST BOULDER.
- 2. ON ANY HILL WITH A SLOPE GREATER THAN 30% A STRUCTURAL ENGINEER STAMPED DESIGN IS REQUIRED.
- 3. WALL SHALL MEET CURRENT ADOPTED BUILDING CODE REQUIREMENTS.

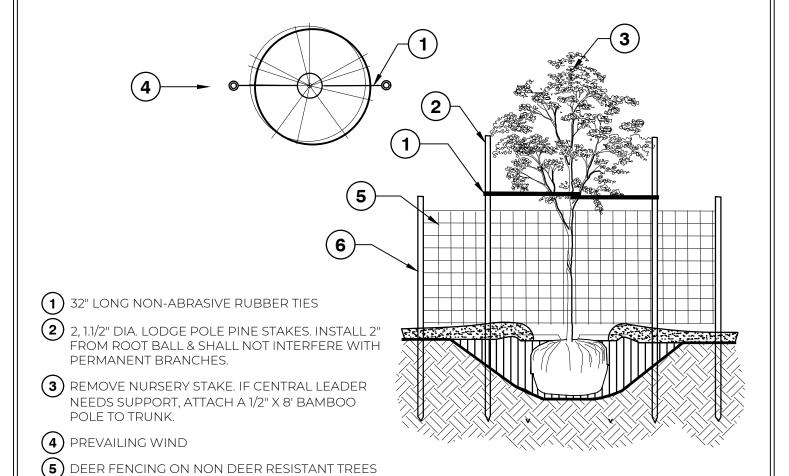


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

ROCK RETAINING WALL

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TREE TO SUPPORT DEER FENCING

6' POST SHALL BE INSTALLED 6' FROM BASE OF

- 1. STAKE ALL TREES THAT ARE DETERMINED TO REQUIRE A STAKE (CITY DISCRETION) AT THE TIME OF PLANTING.
- 2. PLACE TWO $1\frac{1}{2}$ INCH 2 INCH DIAMETER WOOD TREE STAKES 1 TO 2 FEET FROM THE CENTER AND DRIVE STAKE 24 INCHES INTO SOLID GROUND. FASTEN THE TREE TO THE UPPER END OF THE STAKE IN AT LEAST TWO LOCATIONS USING .
- 3. DEER FENCE SHALL BE 6 FEET TALL, BLACK POLYPROPYLENE PLASTIC WITH A MESH DIMENSION OF APPROX. 1.75" X 2". PROVIDE SUBMITTAL FOR OWNER TO APPROVE PRIOR TO INSTALLATION.

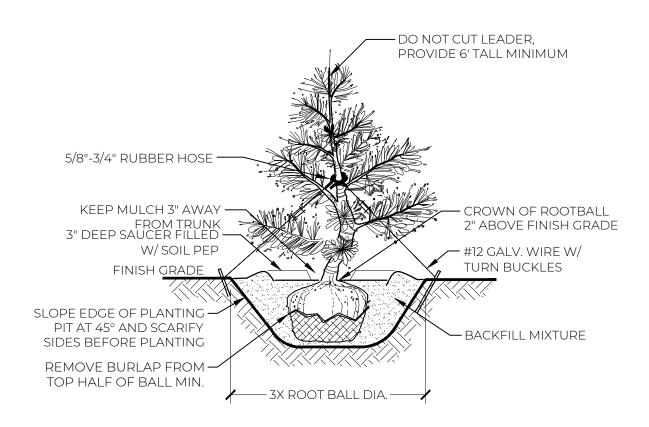


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

TREE STAKING

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- 1. RETAIN NATURAL SHAPE OF TREE
- 2. DO NOT PRUNE PRIOR TO INSTALLATION.
- 3. ONLY TREES WITH SINGLE LEADERS WILL BE ACCEPTED.
- 4. STAKE GUYS W/ 2X2X24" STAKES.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

EVERGREEN PLANTING W/STAKING

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- 1 BOTTOM OF ROOT BALL TO REST ON EXISTING OR RECOMPACTED SOIL.
- REMOVE CONTAINERS, WIRE, BASKETS, ETC. PRIOR TO PLANTING. COMPLETELY REMOVE TWINE AND BURLAP FROM B&B STOCK
- (3) FINISHED GRADE
- ROUND TOP SOIL BERM 4" HIGH X 8" WIDE SURROUNDING PERIPHERY OF ROOT BALL.
- TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE. TREE SHALL BE 2" MIN. CALIPER. MEASURED 20" ABOVE GROUND LEVEL
- (6) ROOT BALL, MODIFIED AS REQUIRED
- (7) CENTRAL LEADER

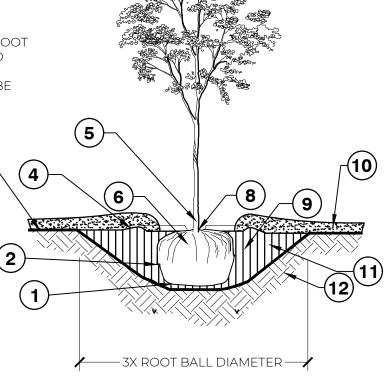
ACCEPTED.

8 TOP OF ROOT BALL SHALL BE AT GRADE. ROOT COLLAR SHALL NOT BE 2" ABOVE FINISHED GRADE.
ANY TREE PLANTED TOO DEEP WILL NOT BE

9 PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND ROOT BALL. NO NOT OVER COMPACT. POUR WATER AROUND ROOTBALL TO SETTLE BACKFILL.

- 4" MULCH LAYER. NO MORE THAN 1" MULCH TO COVER ROOT BALL.
- DIG AND TURN SOIL TO REDUCE COMPACTION TO THE AREA AND DEPTH SHOWN. SLOPE SIDES.

(12) EXISTING SOIL



NOTES:

- THE SPACING & SPECIES OF TREES SHALL
 CONFORM TO THE REQUIREMENTS OF THE
 PLANNING COMMISSION. ANY SUBSTITUTIONS
 MUST BE APPROVED BY HYRUM CITY.
- 2. TREES SHOULD BE SELECTED BASED ON THE AREA'S SOIL AND CLIMATE.
- 3. TREES SHALL BE KEPT:
- 3.• OUTSIDE OF THE INTERSECTION SIGHT OF TRIANGLES AS DEFINED WITHIN SECTION 12 OF THE DEVELOPMENT CODE.
- 3.• NOT LESS THAT 20' FROM LAMP STANDARDS AND POWER POLES.
- 3.• NOT LESS THAN 10' FROM FIRE HYDRANTS.
- 3.• NOT LESS THAN 5' FROM SERVICE WALKS & DRIVEWAYS.
- 3.• NOT LESS THAN 5' FROM WATER METERS.
- 4. THE DEVELOPER SHALL PAY THE INSTALLATION COST OF PARKWAY TREES. PARKWAY TREES SHALL BE INSTALLED ON ALL STREETS IN CONFORMANCE TO THE STANDARD DETAILS, AS REQUIRED BY PLANNING AND ZONING.
- TREES TO BE INSPECTED BY HYRUM CITY AT DELIVERY AND/OR PRIOR TO PLANTING TO ENSURE QUALITY AND SIZE.
- TREES TO BE INSPECTED DURING PLANTING BY HYRUM CITY TO ENSURE PROPER INSTALLATION.
- TREES MAY BE ACCEPTED AFTER 30 DAYS MAINTENANCE TIME FROM INSPECTION, PROVIDED IT IS WEED FREE & OF NORMAL, ACCEPTABLE GROWTH FOR THE TIME OF YEAR.
- PLANT TREE TO ITS NORMAL DEPTH & PUDDLE WITH A RUNNING STREAM OF WATER FROM A HOSE. PREPARE PLANTING HOLE & STAKE TREE AS REQUIRED BY CITY REPRESENTATIVE.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

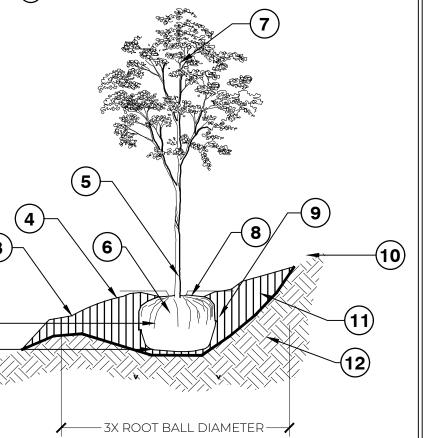
TREE PLANTING

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- 1 BOTTOM OF ROOT BALL TO REST ON EXISTING OR RECOMPACTED SOIL.
- REMOVE CONTAINERS, WIRE, BASKETS, ETC.
 PRIOR TO
 PLANTING. COMPLETELY REMOVE TWINE
 AND BURLAP
 FROM B&B STOCK
- (3) FINISHED GRADE
- ROUND TOP SOIL BERM 4" HIGH X 8" WIDE SURROUNDING PERIPHERY OF ROOT BALL.
- TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE. TREE SHALL BE 2" MIN. CALIPER, MEASURED 20" ABOVE GROUND LEVEL
- (6) ROOT BALL, MODIFIED AS REQUIRED
- (7) CENTRAL LEADER
- (8) TOP OF ROOT BALL SHALL BE AT GRADE.
 ROOT
 COLLAR SHALL NOT BE 2" ABOVE FINISHED

COLLAR SHALL NOT BE 2" ABOVE FINISHED GRADE.

ANY TREE PLANTED TOO DEEP WILL NOT BE ACCEPTED.



(9) PRIOR TO MULCHING, LIGHTLY TAMP SOIL

ROOT BALL. NO NOT OVER COMPACT. POUR

AROUND ROOTBALL TO SETTLE BACKFILL.

(10) 4" MULCH LAYER. NO MORE THAN 1" MULCH

AREA AND DEPTH SHOWN, SLOPE SIDES.

(11) DIG AND TURN SOIL TO REDUCE COMPACTION TO THE

AROUND

TO COVER

ROOT BALL.

(12) EXISTING SOIL

WATER

NOTES:

THE SPACING & SPECIES OF TREES SHALL CONFORM TO 4.
THE REQUIREMENTS OF THE PLANNING COMMISSION.
ANY SUBSTITUTIONS MUST BE APPROVED BY HYRUM
CITY

2

- TREES SHOULD BE SELECTED BASED ON THE AREA'S SOIL AND CLIMATE.
- 3. TREES SHALL BE KEPT:
- 3.1. OUTSIDE OF THE INTERSECTION SIGHT OF TRIANGLES6.
 AS DEFINED WITHIN SECTION 12 OF THE
 DEVELOPMENT CODE.
 7
- 3.2. NOT LESS THAT 20' FROM LAMP STANDARDS AND POWER POLES.
- 3.3. NOT LESS THAN 10' FROM FIRE HYDRANTS.
- 3.4. NOT LESS THAN 5' FROM SERVICE WALKS & DRIVEWAYS.
- 3.5. NOT LESS THAN 5' FROM WATER METERS.

HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

- 4. THE DEVELOPER SHALL PAY THE INSTALLATION COST OF PARKWAY TREES. PARKWAY TREES SHALL BE INSTALLED ON ALL STREETS IN CONFORMANCE TO THE STANDARD DETAILS, AS REQUIRED BY PLANNING AND ZONING.
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- TREES MAY BE ACCEPTED AFTER 30 DAYS MAINTENANCE TIME FROM INSPECTION, PROVIDED IT IS WEED FREE & OF NORMAL, ACCEPTABLE GROWTH FOR THE TIME OF YEAR.
- PLANT TREE TO ITS NORMAL DEPTH & PUDDLE WITH A RUNNING STREAM OF WATER FROM A HOSE. PREPARE PLANTING HOLE & STAKE TREE AS REQUIRED BY CITY REPRESENTATIVE.

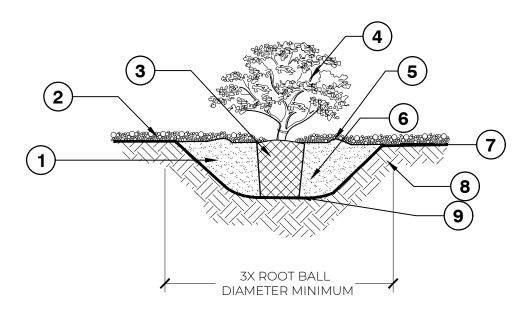


STANDARD DRAWING

TREE PLANTING ON SLOPE

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REVISION: DATE: 8/19/2023	

- 1 DIG & TURN SOIL TO REDUCE COMPACTION TO THE AREA & DEPTH SHOWN. SLOPE SIDES.
- 4" LAYER OF MULCH. NO MORE THAN 1" MULCH TO COVER ROOT BALL.
- (3) ROOTBALL
- (4) SHRUB
- (5) ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE SURROUNDING THE PERIPHERY OF THE ROOT BALL
- PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL TO BRACE SHRUB. DO NOT OVER COMPACT. POUR WATER AROUND THE ROOTBALL TO SETTLE BACKFILL.
- (7) FINISHED GRADE
- **(8)** EXISTING SOIL
- 9 BOTTOM OF ROOTBALL TO REST ON EXISTING OR RECOMPACTED SOIL



- 1. ALL SHRUBS SHALL BE A MINIMUM 5 GALLON SIZE UNLESS WRITTEN APPROVAL IS OBTAINED & VARIETY, SIZE, & SPACING IS STATED.
- 2. ALL CONTAINERS, WIRE BASKETS, ETC. SHALL BE REMOVED FROM SHRUBS PRIOR TO PLANTING. ALL B&B STOCK SHALL HAVE THE BAILING TWINE AND BURLAP REMOVED.
- 3. ANY SHRUBS PLANTED TOO DEEP WILL NOT BE ACCEPTED. ROOT BALL SHALL BE LEVEL WITH FINISHED GRADE. ROOT COLLAR SHALL BE 2" ABOVE FINISHED GRADE.
- 4. SHRUBS SHOULD BE SELECTED BASED ON THE AREA'S SOIL & CLIMATE.
- 5. SHRUBS MAY BE ACCEPTED AFTER 30 DAYS MAINTENANCE TIME FROM INSPECTION, PROVIDED IT IS WEED FREE & OF NORMAL, ACCEPTABLE GROWTH FOR THE TIME OF YEAR.
- 6. PLANT SHRUB TO ITS NORMAL DEPTH & PUDDLE WITH A RUNNING STREAM OF WATER FROM A HOSE.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

SHRUB PLANTING

	DRAWN:	SCALE
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- DIG & TURN SOIL TO REDUCE COMPACTION TO THE AREA & DEPTH SHOWN. SLOPE SIDES.
- 4" LAYER OF MULCH. NO MORE THAN 1" MULCH TO COVER ROOT BALL.

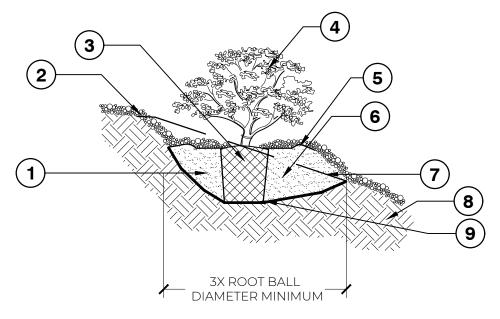
FINISHED GRADE

BOTTOM OF ROOTBALL TO REST ON

EXISTING OR RECOMPACTED SOIL

EXISTING SOIL

- (3) ROOTBALL
- SHRUB
- ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE SURROUNDING THE PERIPHERY OF THE ROOT BALL
- (6) PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL TO BRACE SHRUB. DO NOT OVER COMPACT. POUR WATER AROUND THE ROOTBALL TO SETTLE BACKFILL.



NOTES:

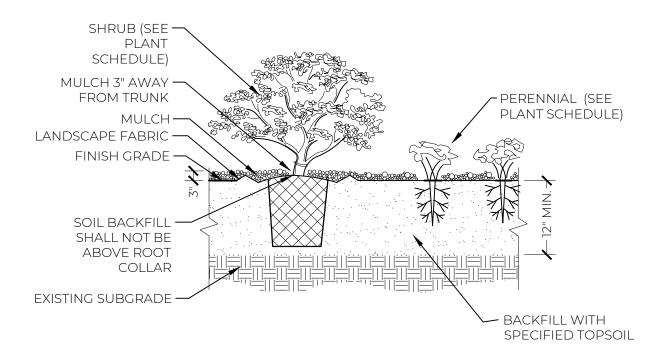
- THIS DETAIL TO BE USED FOR SHRUBS PLANTED ON A SLOPE BETWEEN 5% (20:1) AND 50%
- ALL SHRUBS SHALL BE A MINIMUM 5 GALLON SIZE UNLESS WRITTEN APPROVAL IS OBTAINED & VARIETY, SIZE, & SPACING IS STATED.
- ALL CONTAINERS, WIRE BASKETS, ETC. SHALL BE REMOVED FROM SHRUBS PRIOR TO PLANTING. ALL B&B STOCK SHALL HAVE THE BAILING TWINE AND BURLAP REMOVED.
- ANY SHRUBS PLANTED TOO DEEP WILL NOT BE ACCEPTED. ROOT BALL SHALL BE LEVEL WITH FINISHED GRADE. ROOT COLLAR SHALL BE 2" ABOVE FINISHED GRADE.
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- 7. PLANT SHRUB TO ITS NORMAL DEPTH & PUDDLE WITH A RUNNING STREAM OF WATER FROM A HOSE.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

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DATE: 8/10/2023	



- 1. LANDSCAPE FABRIC TO BE INSTALLED UNDER MULCH.
- 2. MULCH SHALL BE WASATCH GREY CHAT, 3/8" MINUS. MULCH SHALL BE 3" THICK AS SHOWN ABOVE.
- 3. LANDSCAPE FABRIC TO BE CUT AWAY 6 INCHES FROM SHRUB/PERENNIALS AND 12 INCHES FROM TREES



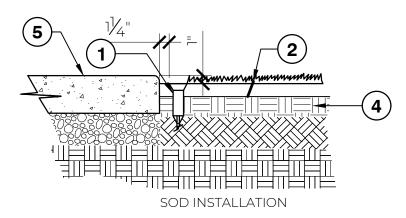
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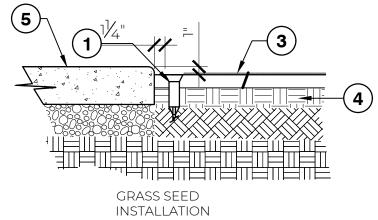
STANDARD DRAWING

PLANTING BED

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- 1 INSTALL SOD OR SEED BED 1" BELOW TOP OF ADJACENT CONCRETE SITE ELEMENT, AS SHOWN.
- 2 SOD WITH TIGHT, BEVELED JOINTS
- (3) GRASS SEED BED
- AMEND SOIL AS
 REQUIRED BY TOPSOIL
 TEST
 REPORT
- **(5)** MOWSTRIP, CURB, OR SIDEWALK





- SOD MAY BE ACCEPTED 30 DAYS AFTER INSPECTION &
 AFTER MIN. FOUR CUTTINGS (ONCE EVERY 7 DAYS). IF
 SOD IMPROVEMENTS ARE NOT ACCEPTED AFTER THIS
 TIME PERIOD, DEVELOPER SHALL BE REQUIRED TO
 CONTINUE MAINTENANCE UNTIL
 ACCEPTED/APPROVED.
- 2. PREPARE LAWN AREAS AS SPECIFIED UNDER SOIL PREPARATION. SLOPE ALL AREAS TO DRAIN ACCORDING TO THE ARCHITECT'S DRAWINGS & APPROVAL FROM PUBLIC WORKS DEPARTMENT & PARKS DEPARTMENT.
- RAKE SOD AREAS UNTIL THE SURFACE IS SMOOTH & OF UNIFORM TEXTURE PRIOR TO PLANTING THE TURF.
- THE FINISHED GRADE OF ALL SOD AREAS SHALL BE BETWEEN 0 & ¹/₄ INCHES BELOW SIDEWALK OR ADJACENT PAVEMENT AREAS.
- SOD MUST BE INSTALLED DURING NORMAL GROWING SEASON. IF DORMANT SOD IS INSTALLED, IT WILL NOT BE ACCEPTED UNTIL THE FOLLOWING NORMAL GROWING SEASON.
- 6. LAY SOD WITH STAGGERED SEAM.

- 7. AFTER SOD HAS BEEN LAID, IRRIGATE & THEN ROLL SOD WITH WATER ROLLER (50 POUND MIN. WEIGHT) TO LEVEL SOD & INSURE POSITIVE CONTACT WITH SOIL.
- SELECT GRASS ACCORDING TO INTENDED USE, LOCATION & MAINTENANCE REQUIREMENTS. DROUGHT TOLERANT GRASSES SHOULD BE UTILIZED WITHIN ALL TURF AREAS.
- REDUCE THE SIZE OF WATER SENSITIVE LAWNS WITH ENLARGED BEDS & HARDSCAPES. ELIMINATE LAWN AREAS THAT ARE DIFFICULT TO IRRIGATE, INCLUDING LONG & NARROW OR SMALL & ODD-SHAPED AREAS.
- 10. APPLY COMMERCIAL GRADE FERTILIZER AS PER THE FOLLOWING SPECIFICATIONS:
 - 10.1. 46-0-0 WITH DIMENSION COATED NITROGEN (PRE-EMERGENT) FROM JANUARY 1ST TO MAY 31ST AT A RATE OF 2 POUNDS PER 1,000 SQ. FT.
 - 10.2. 25-5-6 FROM JUNE 1ST TO AUGUST 31ST AT A RATE OF 4 POUNDS PER 1,000 SQ. FT.
 - 10.3. 46-0-0 (50% SLOW RELEASE) SULPHER COATED UREA FROM SEPTEMBER 1ST TO DECEMBER 31ST AT A RATE OF 2 POUNDS PER 1,000 SQ. FT.

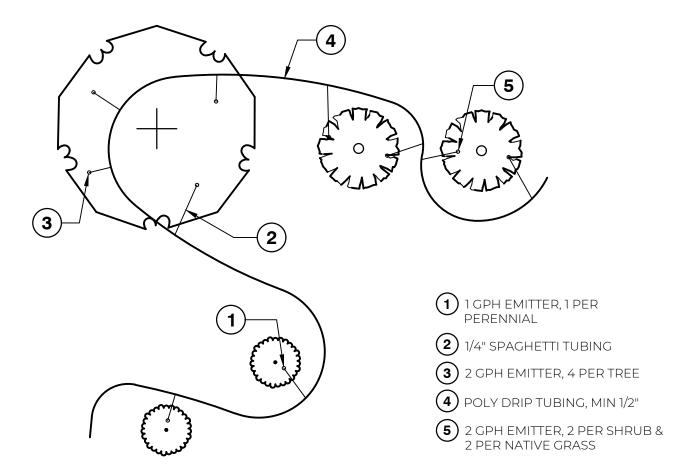


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STANDARD DRAWING

SOD & SEED LAWN

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- 1. LOCATE EMITTER ON UPHILL SIDE OF PLANT ON SLOPES. BERM SOIL FOR WATER BASIN ON EACH PLANT.
- 2. ADD STAPLES EVERY 6 FEET OF LINE MINIMUM AND AT EVERY BEND.

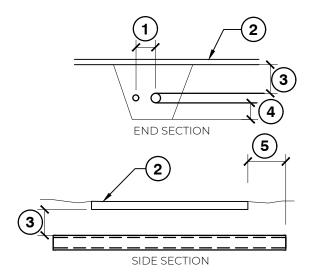


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

DRIP TUBING & EMITTERS

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- 4" MIN. CLEARANCE BETWEEN PIPES
- (2) FINISH GRADE
- (3) 18" MIN, 24" MAX. PIPE COVER
- $oldsymbol{4}$ 2" MIN, PIPE BEDDING
- **(5)** 6" MIN, 18" MAX. PAST EDGE

- SLEEVES TO BE 2X PIPE SIZE WITHIN. JOINTS TO BE WATERTIGHT. MECHANICALLY TAMP TO 95% PROCTOR
- 2. ALL PIPE SLEEVING SHALL BE SCH. 40 PVC. PIPING UNDER ROAD TO THE WATER METER BOX MUST BE POLYETHYLENE.
- 3. CUTTING/BREAKING EXISTING CONCRETE IS NOT PERMITTED UNLESS NO OTHER ALTERNATIVE IS POSSIBLE. PIPING UNDER PAVING SHALL BE INSTALLED BY JACKING, BORING, OR HYDRAULIC DRIVING.
- 4. DESIGNER/CONTRACTOR SHALL MINIMIZE THE AMOUNT OF SLEEVING REQUIRED UNDER PAVING.
- 5. ALL WIRE SLEEVING SHALL BE GRAY S/40 ELECTRICAL CONDUIT. NO EXCEPTIONS.

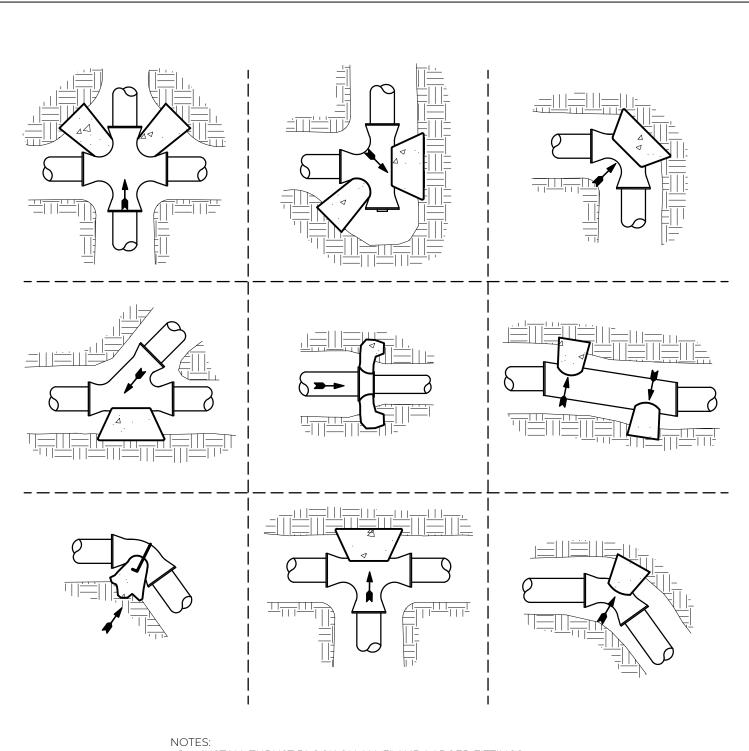


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

SLEEVING

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- 1. INSTALL THRUST BLOCK ON ALL 3" AND LARGER FITTINGS.
- 2. PLACE 6 MIL POLY LINER BETWEEN FITTING AND CONCRETE THRUST BLOCK.
- 3. ALL CONCRETE TRUST BLOCKS TO BE SET AGAINST UNDISTURBED SOIL.
- 4. FITTINGS SHALL BE CAST IRON WITH MEGA-LUGS.



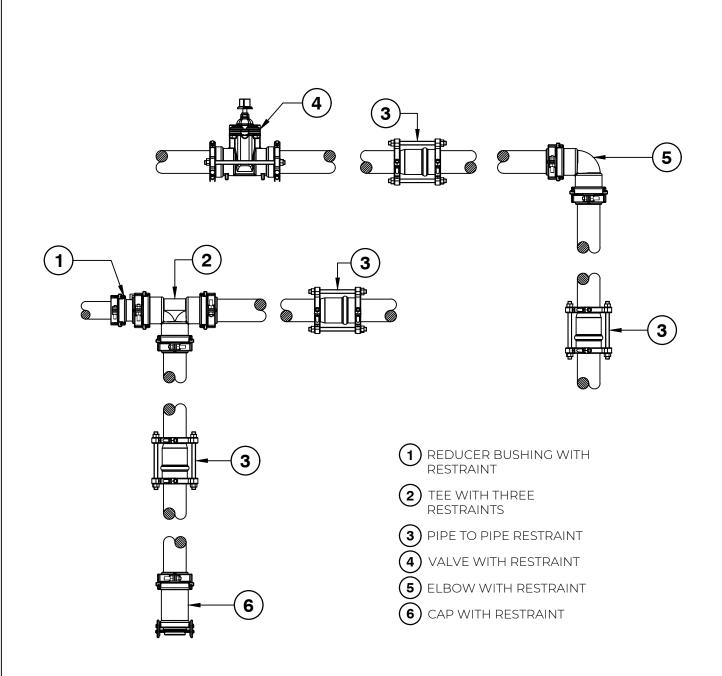


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STANDARD DRAWING

THRUST BLOCKS

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- REPRESENTATIVE SAMPLING OF FITTINGS WITH JOINT RESTRAINTS INSTALLED.
- 2. PIPE TO PIPE RESTRAINTS ARE SHOWN BUT ARE NOT NECESSARILY ALWAYS REQUIRED. REFER TO JOINT RESTRAINT TABLES.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

TYPICAL JOINT RESTRAINT LAYOUT -

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DATE: 8/19/2023	

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS MUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

AS AN EXAMPLE: IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO A 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE		BEI	NDS		F	REDUCEF	RS	DEA	AD END
SIZE	110	22°	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.
2" 2.5" 3" 4" 6" 8" 10"	1' 1' 2' 2' 3' 4'	1' 2' 3' 4' 6' 8' 9'	2' 4' 6' 9' 13' 15'	6' 9' 11' 20' 29' 38' 45'	 4' 8' 14' 30' 33' 36'	 10' 20' 40' 55' 56'	 31' 53' 63' 75'	19' 23' 30' 45' 63' 75' 96'	6' 10' 15' 25' 40' 70' 90'
12	5'	10'	21'	53'	38'	60'	83'	112'	110'

INSTALLATION CHART

REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

AS AN EXAMPLE: IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE $\frac{3}{4}$ X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE	NUMBER OF	BOLT	TORQUE
SIZE	BOLTS	SIZE	FT-LBS.
2" 2.5" 3" 4" 6" 8" 10" 12"	2 2 2 2 2 2 4 4 4	3/8" X 2.5" 3/8" X 2.5" 3/8" X 2.5" 2" X 3" 2" X 3.5" 2" X 4" 5/8" X 5.5"	20 20 20 50 50 50 100

THESE CHARTS ARE BASED ON USE OF LEEMCO PRODUCTS AND PROVIDED AS REFERENCE ONLY. CONTRACTOR SHALL CONTACT CORRESPONDING MANUFACTURER REPRESENTATIVE FOR PROPER CHARTS, TRAINING, AND CERTIFICATION IF OTHER PRODUCTS ARE SUBMITTED AND APPROVED. FOR USE OF LEEMCO PRODUCTS, CONTACT THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS.



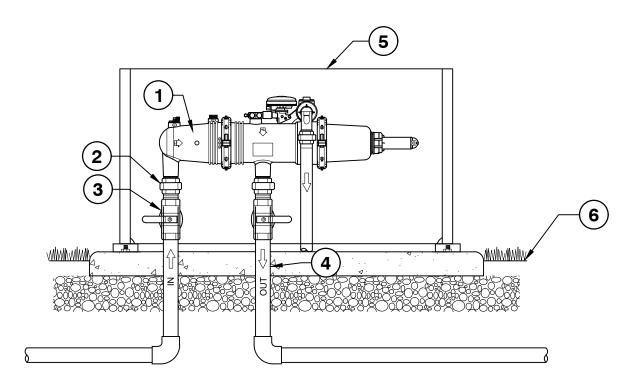
HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

JOINT RESTRAINT TABLE

	DRAWN: DESIGN:	SCALE NONE
	REVISION: DATE: 8/19/2023	

- 1) FILTER PER PLAN
- (2) STAINLESS UNIONS SIZE PER PLAN
- 3 STAINLESS STEEL BALL VALVE
- (4) STAINLESS NIPPLES AND FITTINGS AS REQUIRED
- (5) STRONGBOX SBBC-60ALHP
- 6 FINISH GRADE



- 1. MINI SIGMA PER PLAN.
- 2. STRONG BOX MOUNTED TO CONCRETE PAD. PAD SIZE SHALL BE 6 INCHES WIDER AND LONGER THAT STRONG BOX.
- 3. GRAVEL INSIDE MOWSTRIP SHALL BE RECESSED FROM THE TOP SO FILTER FITS INSIDE THE STRONG BOX.
- 4. INTERIOR GRAVEL SHALL BE WASHED SMOOTH GRAVEL $\frac{3}{4}$ " MINUS IN SIZE 16" DEEP.
- 5. WRAP PIT WITH DEWITT PRO 5 LANDSCAPE FABRIC PRIOR TO FILLING PIT WITH WASHED GRAVEL.



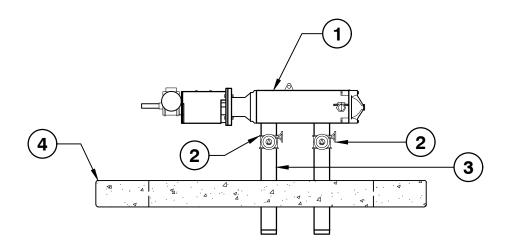
HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

FILTER

DRAWN:	SCALE
DESIGN:	NONE
REVISION:	
DATE: 0/10/2022	

- 1) AMIAD SAF AUTOMATIC FLUSH ELECTRIC FILTER. PROVIDE 120 VAC
- POWER. BUTTERFLY VALVES
- (3) ALL FITTINGS AND SPOOLS TO BE DUCTILE IRON
- 6" THICK POURED CONCRETE PAD. MUST EXTEND 24" LARGER THAN SHADOW OF FILTER.



ALL SPRINKLER SYSTEMS SHALL BE EQUIPPED WITH AN APPROVED SYSTEM FILTER, UNLESS OTHERWISE REQUIRED/APPROVED BY THE CITY PARKS DEPARTMENT.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

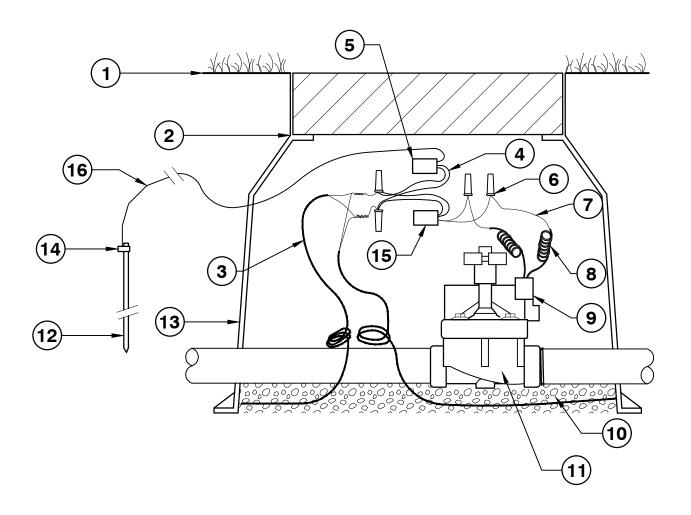
STANDARD DRAWING

FLANGED FILTER - 3"-6"

1	DRAWN:	SCALE	
l	DESIGN:	NONE	
	REVISION:		

- (1) FINISH GRADE
- VALVE BOX
- (3) 2-WIRE COMMUNICATION PATH *IN (11) ELECTRICAL VALVE (SEE CONDUIT*
- (4) BLUE WIRES TO 2-WIRE **COMMUNICATION PATH**
- (5) WT2W-LSP SURGE ARRESTOR (YELLOW CASE)
- **(6)** 3M DBR/Y-6 SPLICE
- WHITE WIRES TO SOLENOID
- (8) EXPANSION COILS

- (9) SOLENOID
- **(10)** Gravel
- SUPPORTING DETAILS)
- **(12)** 5/8"DIA. X 8' COPPER CLAD GROUND ROD DRIVEN INTO GROUND WITH TOP OF ROD A MIN. OF 6" BELOW GRADE. 100 OHMS OR LESS. LOCATE PER WEATHERTRAK REQ'S.
- (13) EXTENSION (LENGTH AS REQUIRED)
- (14) CAD WELD CONNECTION
- WT2W-SVD-11 DECODER (BLUE CASE)
- GROUND WIRE OF WT2W-LSP CONNECTED TO GROUND ROD





HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

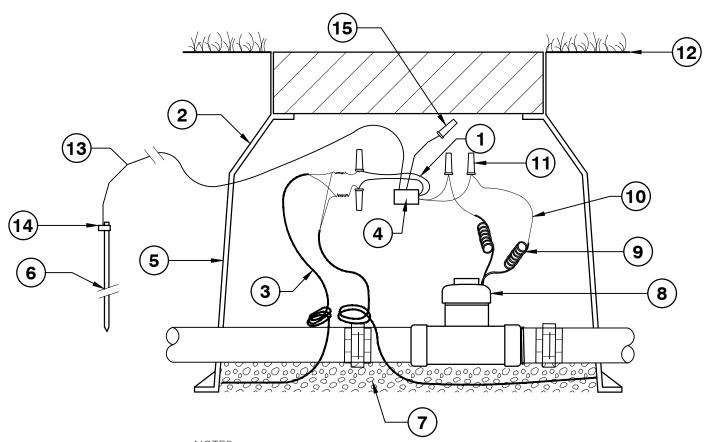
STANDARD DRAWING

2 WIRE SURGE PROTECTOR DECODER

_		
	DRAWN:	SCALE
	DESIGN:	NONE
	REVISION:	
- 1	DATE:	1

- 1 BLUE WIRES TO 2-WIRE COMMUNICATION PATH
- (2) VALVE BOX
- 3 2-WIRE PATH *ALL WIRE IN CONDUIT*
- WT2W-FD (FLOW DECODER)
- **5** EXTENSION (LENGTH AS REQUIRED)
- 6 5/8" DIA. X8 COPPER GROUND ROD DRIVEN INTO GROUND WITH TOP OF ROD A MIN. OF 6" BELOW GRADE. 100 OHMS OR LESS
- (7) GRAVEL

- 8 FLOW SENSOR/HYDROMETER
- (9) EXPANSION COILS
- RED AND BLACK WIRES TO FLOW SENSOR
- (11) 3M DBR/Y-6 SPLICE
- (12) FINISH GRADE
- GREEN/YELLOW STRIPED
 WIRES TO GROUNDING
 ROD
- (14) CAD WELD CONNECTION
- (15) SINGLE GREEN
 WIRE-OPTIONAL LED
 POWER. CAP WHEN NOT IN
 USE



- FLOW SENSOR SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- 2. ALL FLOW SENSORS SHALL BE WEATHERTRAK PRODUCT.

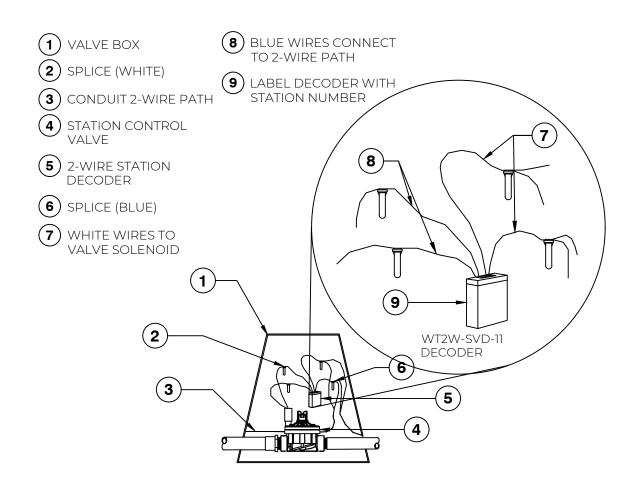


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

2 WIRE FLOW DECODER WIRING

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DESIGN:	NONE
REVISION:	
DATE: 8/19/2023	



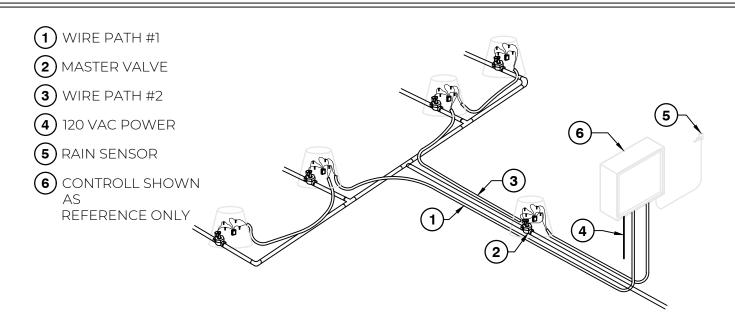


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

2 WIRE DECODER WIRING

٦	DRAWN:	SCALE
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	REVISION:	
- 1	DATE:	



NUMBER OF	VALVES EVENLY DISTRIBUTED		
SIMULTANEOUS	ALONG 2-WIRE (FT)		
VALVES	AWG 18	AWG 16	AWG 14
	7.000	11.000	17.800
1	6.400	10.200	16.300
2	5.500	8.800	14.100
3	4.900	7.800	12.500
4	4.400	7.000	11.200
5	4.000	6.300	10.100
6	3.600	5.800	9.200
7	3.300	5.300	8.500

WORST CASE 2-WIRE PATH LENGTH LIMITS WITH ALL DECODERS AT ENDIOF 2-WIRE PATH		
NUMBER OF	MAXIMUM WIRE	
ACTIVE VALVES ON	LENGTH (FT)	
2-WIRE PATH	ASSUMING # ¹⁶ ½ WIRE	
1	6,200	
2	5,600	
3	4,900	
4	4,300	

- 1. ALL WIRE SPLICING SHALL BE MADE WITH APPROVED CONNECTIONS.
- 2. MAKE ALL WIRE SPLICES IN VALVE BOXES.
- 3. LEAVE A MINIMUM OF 12" EXTRA WIRE AT ALL SPLICE POINTS.
- 4. MAXIMUM DISTANCE FROM DECODER TO VALVE=150 FEET.
- 5. MAXIMUM WIRE LENGTH=10,200 FEET.
- 6. WIRE LENGTHS INCLUDE MASTER VALVE AND $\#^{1}$ WIRE.
- 7. INCLUDE PAIGE WIRE DECODER CABLE FUSE DEVICES (DCFD's) AT ALL INTERSECTIONS.
- 8. REFER TO OTHER DETAILS FOR SURGE PROTECTION.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

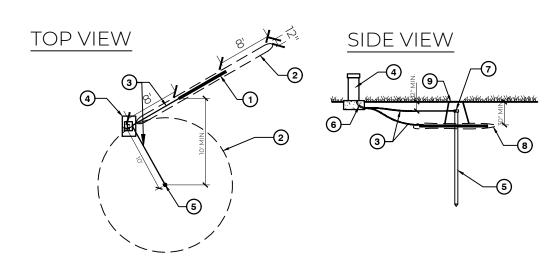
STANDARD DRAWING

2 WIRE MULTIPLE PATH EXAMPLE

٦	DRAWN:	SCALE
	DESIGN:	NONE
١	REVISION:	
-	DATE:	

- 1 COPPER GROUND PLATE (4" X 96" X .0625")
- 2 ELECTRICAL SPHERE OF INFLUENCE BOUNDARIES
- 3 #6 AWG BARE COPPER WIRE
- (4) IRRIGATION CONTROLLER
- 5 5/8" X 10' UL LISTED COPPER CLAD GROUND ROD

- PVC SWEEP ELL, 1-1/2" OR LARGER
- (7) 'CADWELD' CONNECTION
- 8 'POWER SET' EARTH CONTACT MATERIAL
- (9) 10" ROUND VALVE BOX



- 1. DO NOT INSTALL ANY OTHER WIRES OR CABLE WITHIN THE SPHERE OF INFLUENCE AREA.
- 2. PLACE 100 LB POWER SET SOIL AMENDMENT WITH EACH PLATE PER MANUFACTURER'S RECOMMENDATIONS.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

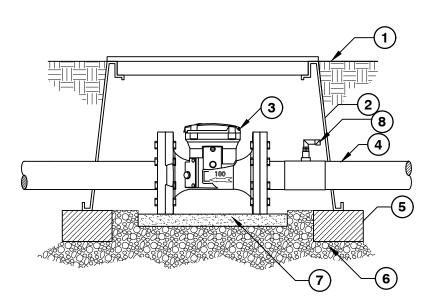
GROUNDING GRID INSTALLATION

DRAWN:	SCALE	
DESIGN:	NONE	
REVISION:		

8/19/2023

- (1) GRADE LEVEL
- 2 14" X 19" VALVE BOX
- 3 4" HYDROMETER
- 4 4" PVC PIPE

- (5) BRICK SUPPORT
- 6 1/2" CRUSHED GRAVEL
- (7) CONCRETE PAVER
- 8 AIR/ VACUUM VENT



NOTES TO DESIGNER:

- 1. AT LEAST TWO (2) PIPE DIAMETERS ARE REQUIRED BOTH UP AND DOWN STREAM BETWEEN FLOWHD AND ANY FITTINGS.
- 2. AT LEAST FIVE (5) PIPE DIAMETERS BETWEEN A PUMP AND THE FLOWHD.
- 3. INSTALL A COMBINATION AIR/VACUUM OR CONTINUOUS ACTING AIR VENT RIGHT BEFORE THE FLOWHD (SEE INSTALLATION INSTRUCTIONS).



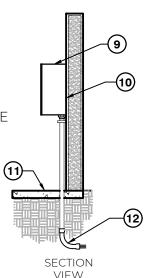
HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

FLOW SENSOR

1	DRAWN:	SCALE
l	DESIGN:	NONE
l	REVISION:	
ı	DATE:	

- WEATHERTRAK CONTROLLER, MODELS: WTPRO3-C-12/24/48-SWM-CH1 CONVENTIONAL OR WTPRO3-C-2W48-SWM-CH1, 2-WIRE OR CONVENTIONAL, WITHIN STAINLESS STEEL WALL MOUNT ENCLOSURE ASSEMBLY W/ KEY-LOCK. SEE LEGEND FOR SIZE AND OTHER REQUIREMENTS.
- (2) WIRELESS RAIN SENSOR (IF SPECIFIED)
- (3) 'J' BOX FOR 110/120 VAC CONNECTION TO CONTROLLER TRANSFORMER.
- 1" SCH. 40 PVC SWEEP ELL AND CONDUIT FOR FLOW SENSOR AND MASTER VALVE WIRE OR HYDROMETER WIRE.
- (5) #6 AWG COPPER GROUND WIRE IN CONDUIT. CONNECT TO BUILDING GROUND AS REQUIRED AND PER ASIC GUIDELINES.
- 6 2" PVC SCH. 40 GRAY ELECTRICAL CONDUIT. USE FOR BOTH 2-WIRE AND CONVENTIONAL WIRE OPTIONS.
- (7) CONVENTIONAL VALVE OR DECODER WIRES
- 8 FLOW SENSOR CABLE AND MASTER VALVE, OR HYDROMETER WIRE PER SPECIFICATIONS.
- (9) LOW PROFILE ANTENNA (IF SPECIFIED)
- 10 INTERIOR WALL SURFACE, ANCHOR CONTROLLER TO WALL PER MANUFACTURER'S SPECS.
- (11) FINISH GRADE INSIDE OF BUILDING
- 2" PVC SHC. 40 GRAY ELECTRICAL LONG SWEEP ELL AND CONDUIT. USE FOR BOTH WIRE AND CONVENTIONAL WIRE OPTIONS.



FI FVATION

VIEW

NOTES:

- 1. CONTRACTOR SHALL COORDINATE WITH PARKS DEPARTMENT FOR ALL CONTROLLER DESIGNS.
- 2. ALL IRRIGATION CONTROLLERS SHALL BE EQUIPPED WITH A RAIN SENSOR, EVAPOTRANSPIRATION (ET) SENSOR, MASTER VALVE, AND FLOW SENSOR AS APPROVED BY THE HYRUM CITY PARKS DEPARTMENT.
- 3. CONTROLLERS SHALL BE MOUNTED ON A STABLE WALL, POWER RACK, OR FORMED AND CONSTRUCTED CONCRETE BASE PEDESTAL MOUNT OVER 6" OF COMPACTED GRAVEL. SUBGRADE SHALL BE COMPACTED TO 95%. BOX SHALL BE VANDAL RESISTANT AND WEATHER PROOF AND SHALL NOT BE MOUNTED TO METER BASE.
- 4. CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR 110 VOLT ELEC. SERVICE. THIS SHALL BE INSPECTED AND APPROVED BY CITY PARKS DEPARTMENT.
- ALL 100 VOLT WIRES TO BE SUFFICIENTLY SIZED AND CONDUIT BURIED MIN. 24" DEEP.
- 6. ALL LOCAL, STATE, AND NATIONAL CODES SHALL TAKE PRECEDENCE IN THE FURNISHING AND CONNECTING A 110 VOLT ELECTRICAL SERVICE TO THE CONTROLLER.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319 **STANDARD DRAWING**

WEATHERTRAK OPTIFLOW XR INDOOR WALL MOUNT CONTROLLER

DRAWN:
DESIGN:
REVISION:

8/19/202

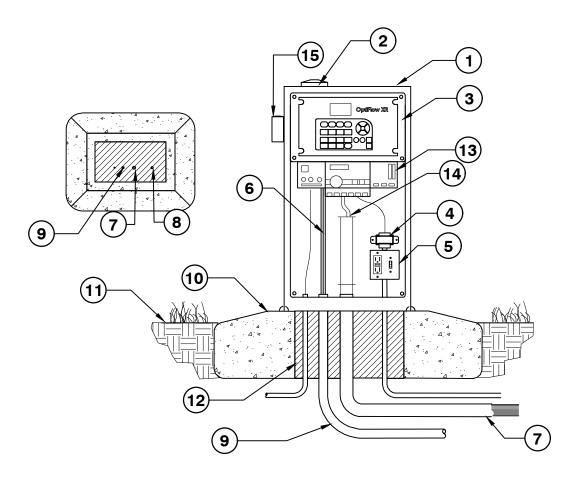
SCALE NONE

(4)

6

- (1) STAINLESS STEEL AUTOMATIC CONTROLLER ENCLOSURE ASSEMBLY. SEE IRRIGAITON LEGEND FOR MAKE AND MODEL.
- (2) LOW PROFILE ANTENNA
- (3) WEATHERTRAK OPTIFLOW XR 2-WIRE CONTROLLER. SEE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. (10) POURED CONCRETE BASE. SLOPE TO DRAIN
- (4) CONTROLLER TRANSFORMER.
- $oldsymbol{(5)}$ gfi on/off power switch receptacle. (optional)
- (**6**) OPTIONAL CONVENTIONAL FLOW SENSOR CABLE AND MASTER VALVE WIRES PER SPECIFICATIONS.
- $m{(7)}$ 3" PVC SWEEP ELL AND CONDUIT FOR CONTROL WIRES.

- ig(8ig) 1" PVC SWEEP ELL AND CONDUIT FOR 120 VAC FROM METERED POWER SUPPLY.
- 9) 2" PVC SWEEP ELL AND CONDUIT FOR OPTIONAL CONVENTIONALLY WIRED FLOW SENSOR AND MASTER VALVE WIRES.
- **(11)** FINISH GRADE. 2" BELOW TOP OF CONCRETE BASE.
- **(12)** FILL VOIDS WITH CONCRETE SLURRY MIX.
- (13) UNIVERSAL RADIO REMOTE INTERFACE. (TYPICAL)
- ig(14ig) NEATLY BUNDLE WIRES AND SECURE WITH WIRE TIRES. (TYPICAL)
- **(15)** RAIN SENSOR WITHIN VIT RAIN SENSOR ENCLOSURE (PT# RGVRSS) PER SPEC.



MINIMUM CONCRETE BASE REQUIREMENTS. CONTRACTOR SHALL VERIFY NUMBER AND SIZE OF CONDUITS REQUIRED FOR EACH ENCLOSURE INSTALLATION. USE ENCLOSURE MANUFACTURER'S TEMPLATE FOR PROPER LAG BOLT PLACEMENT. PROVIDE A MINIMUM 2" OF CONCRETE FROM LAG BOLT TO OPENING IN CONCRETE BASE FOR CONDUITS.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

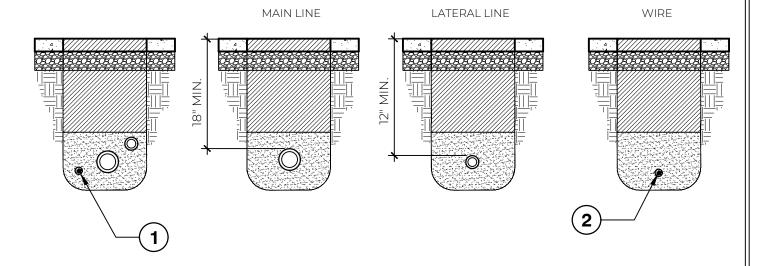
WEATHERTRAK OPTIFLOW XR PEDESTAL CONTROLLER

DRAWN:	SCALE
DESIGN:	NONE
REVISION:	

8/19/2023



2 ALL WIRE SHALL BE IN CONDUIT



NOTES:

- SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE WITHIN OR WIRE THAT IT CARRIES.
- 2. PIPE AND WIRE SHALL BE PLACED IN SEPARATE SLEEVES.
- 3. TRENCHES SHALL BE EXCAVATED 2" BELOW NORMAL TO ALLOW FOR PROPER BEDDING. SELECTED FILL SHALL BE USED IF SOIL CONDITIONS ARE ROCKY.
- 4. MAIN LINE SHALL HAVE 18-24" COVER TO TOP OF PIEP, LATERAL LINE SHALL HAVE 12" MIN. COVER TO TOP OF PIPE. 4" OF SCREENED FILL SHALL COVER THE PIPE. THE TOP 6" OF COVER SHALL CONTAIN NO ROCKS/AGGREGATES LARGER THAN 2".
- 5. TRENCH FILL SHALL BE THOROUGHLY COMPACTED AND LEVELED WITH ADJACENT SOIL.
- 6. PLASTIC PIPE SHALL BE EXTRUDED FROM PVC 1120-1220 COMPOUND AND LABELED AS SUCH. ALL PVC PIPE SHALL BE SCH. 40. ALL MAINLINE FITTINGS SHALL BE SCH. 80.
- 7. ALL WIRING SHALL BE ENCLOSED IN CONDUIT: CONTROL WIRE, 2-WIRE, POWER WIRE.

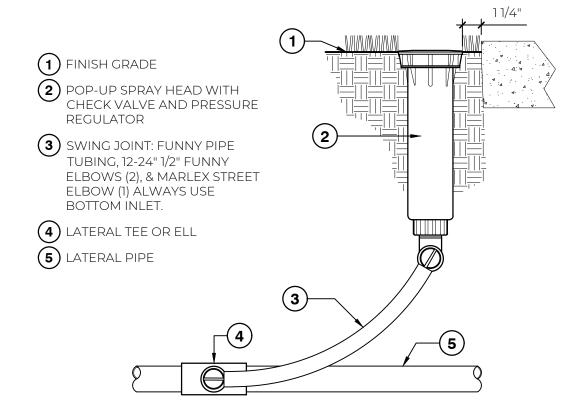


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

PIPE/WIRE IN TRENCH

DRAWN:	SCALE
DESIGN:	NONE
REVISION:	
DATE:	



- 1. ALL SPRINKLER HEADS THAT BE SET TO GRADE & PERPENDICULAR TO THE FINISHED GRADES UNLESS OTHERWISE SPECIFIED. HEADS ADJACENT TO CURBS & WALKS SHALL BE ½ TO 1 INCH AWAY FROM THE CURB OR WALKWAY. ALL NOZZLES SHALL BE TIGHTENED & ADJUSTED FOR THE PROPER RADIUS, ARC, & GALLONAGE.
- 2. SPRAY POP-UP HEADS SHALL HAVEA DOUBLE SWING JOINT RISER CONSTRUCTED OF FUNNY PIPE, BARBED FITTINGS, & MARLEX STREET ELLS ON THE HEAD SIDE.

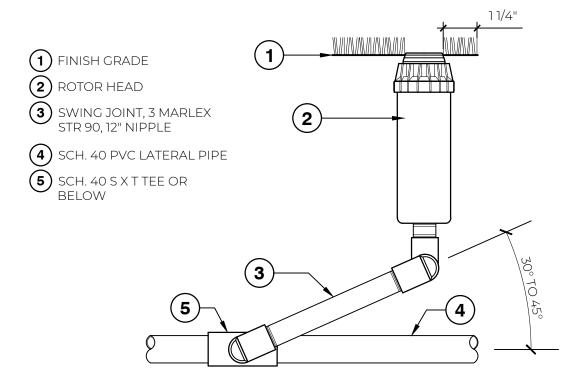


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

4" OR 6" POP UP SPRAY HEAD

DESIGN: NON	SCALE NONE
REVISION: DATE: 8/19/2023	



- 1. ALL SPRINKLER HEADS THAT BE SET TO GRADE & PERPENDICULAR TO THE FINISHED GRADES UNLESS OTHERWISE SPECIFIED. HEADS ADJACENT TO CURBS & WALKS SHALL BE ½ TO 1 INCH AWAY FROM THE CURB OR WALKWAY. ALL NOZZLES SHALL BE TIGHTENED & ADJUSTED FOR THE PROPER RADIUS, ARC, & GALLONAGE IMPACT HEADS SHALL NOT BE APPROVED WITHIN HYRUM CITY.
- 2. ALL ROTOR POP-UP SPRINKLERS SHALL HAVE AN ADJUSTABLE RISER ASSEMBLY (DOUBLE SWING JOINT).
- 3. 1 1/4" MIN. DISTANCE FROM EDGE WHERE OCCURS.

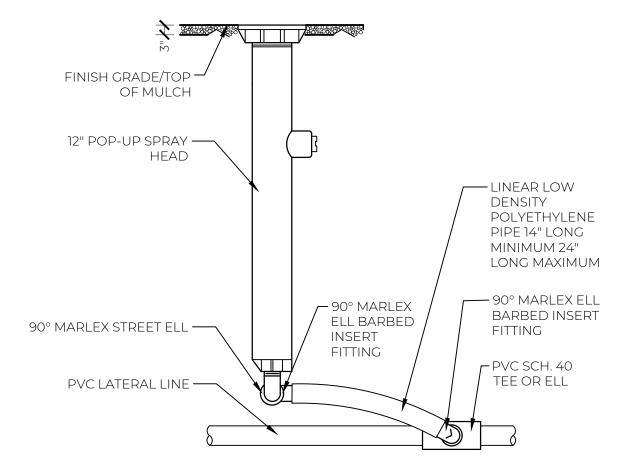


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

POP UP ROTOR

DRAWN:	SCALE
DESIGN:	NONE
REVISION:	
DATE:	



- ALL SPRINKLER HEADS THAT BE SET TO GRADE & PERPENDICULAR TO THE FINISHED GRADES
 UNLESS OTHERWISE SPECIFIED. HEADS ADJACENT TO CURBS & WALKS SHALL BE
 Z TO 1 INCH
 AWAY FROM THE CURB OR WALKWAY. ALL NOZZLES SHALL BE TIGHTENED & ADJUSTED FOR THE
 PROPER RADIUS, ARC, & GALLONS PER MINUTE.
- 2. SPRAY POP-UP HEADS SHALL HAVE A DOUBLE SWING JOINT RISER CONSTRUCTED OF FUNNY PIPE, BARBED FITTINGS, & MARLEX STREET ELLS ON THE HEAD SIDE.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

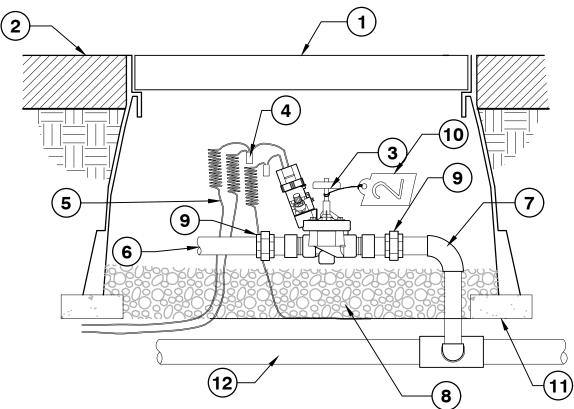
STANDARD DRAWING

12" POP UP SPRAY HEAD

DRAWN: DESIGN:	SCALE NONE
REVISION:	
DATE: 8/19/2023	

- (1) STANDARD VALVE BOX
- (2) FINISH GRADE
- (3) REMOTE CONTROL VALVE
- (4) PAIGE WIRE CONNECTORS (2)
- (5) 14 AWG PE WIRE
- **6** SCH. 40 PIPE & FITTINGS

- (7) SCH. 80 FITTINGS
- (8) 3/4" MINUS WASHED GRAVEL
- 9 ACTION MANIFOLD FITTINGS (2 EACH) 18011-X, 18012-X
- (10) VALVE #TAG
- (11) BRICK
- (12) MAIN LINE PER PLAN



- 1. VALVES SHALL BE AS SPECIFIED ON DRAWINGS AND APPROVAL BY THE PARKS DEPARTMENT.
- 2. VALVES SHALL BE INSTALLED IN A 17 INCH X 11.75 INCH VALVE BOX (NOTE THIS IS THE MINIMUM SIZE),
- 3. NO MORE THAN ONE VALVE PER BOX AND VALVES MUST BE POSITIONED SUCH THAT THE TOPS OF THE VALVE CAN BE REMOVED WITHOUT REMOVING THE VALVE BOX.

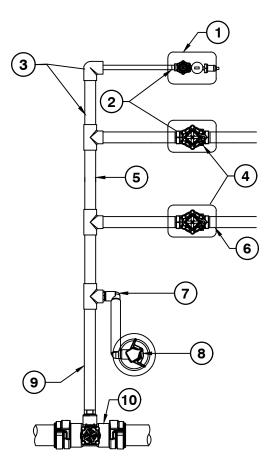


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

REMOTE CONTROL VALVE

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١	DATE:	

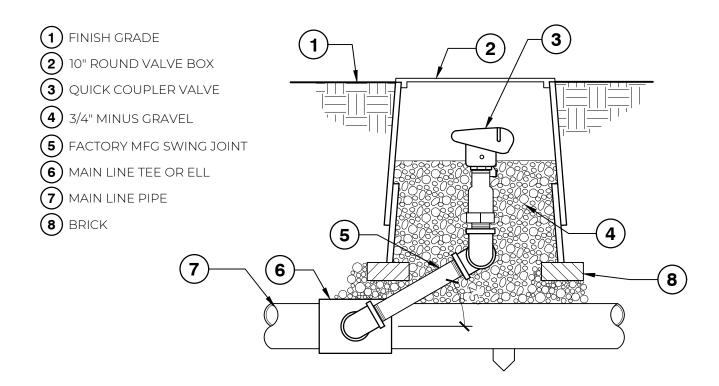


- 1 DRIP ZONE, JUMBO VALVE BOX
- (2) ACTION MANIFOLD FITTINGS
- **(3)** **S/80 FITTINGS
- RCV IN CARSON STANDARD 1419 VALVE BOX
- (5) **S/40 MANIFOLD MAIN LINE
- 6 S/40 COUPLER OR BELL END
- 7 UNITIZED SWING JOINT (LASCO)
- (8) QUICK COUPLER IN 10" BOX
- **9** **S/80 TOE NIPPLE
- 10 DUCTILE IRON LATERAL TEE AND LATERAL VALVE

- **INDICATES COMPONENT SHALL BE SAME SIZE AS LARGEST LATERAL ON THIS MANIFOLD.
- DOWNSTREAM OF BALL VALVE: MANIFOLD FITTINGS SHALL BE SCH. 80, PVC PIPE SHALL BE SCH. 40.
- QUICK COUPLERS ARE NOT REQUIRED AT EVERY MANIFOLD. SEE PLAN FOR LOCATIONS.
- 4. ALL CONTROL VALVE MANIFOLDS SHALL INCLUDE BALL VALVE AND UNION FITTING ON INLET AND OUTLET SIDES OF VALVE.



	DRAWN:	SCALE
	DESIGN:	NONE
	REVISION:	
-	DATE:	



- 1. A QUICK COUPLING VALVE SHALL BE INSTALLED ON ALL MAIN LINES IMMEDIATELY AFTER THE BACKFLOW PREVENTION DEVICE. IN ADDITION, A QUICK COUPLING VALVE SHALL BE INSTALLED AT VALVE BOX CLUSTERS PER PLANS (SEE VALVE MANIFOLD DETAILS). ALL QUICK COUPLER VALVES SHALL BE INSTALLED IN A 10" ROUND VALVE BOX.
- 2. ALL QUICK COUPLING VALVE KEYS SHALL HAVE A HOSE SWIVEL ATTACHED TO THE KEY. ONE KEY TO BE TURNED OVER TO THE CITY PARKS DEPARTMENT AT COMPLETION OF THE PROJECT.

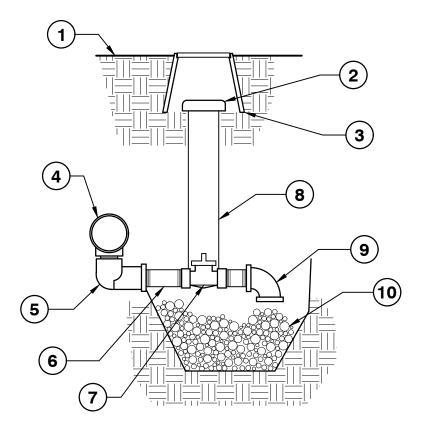


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

QUICK COUPLER VALVE

1	DRAWN:	SCALE
l	DESIGN:	NONE
l	REVISION:	
ı	DATE:	



- (1) FINISH GRADE
- (2) IRRICAP
- (3) CARSON BROOKS 10" ROUND BOX
- (4) MAIN LINE PIPE
- **5** 3/4" SCH. 40 STREET ELL
- 6 3/4" X 6" S/80 NIPPLE
- 7 3/4" CURB STOP VALVE FORD B11-333M
- **(8)** 2" SCH. 40 PIPE
- 9 MARLEX STREET ELL
- 1 CU/FT 3/4" GRAVEL

1. ADD MANUAL DRAIN LINE TO LOW SPOT ON IRRIGATION MAINLINE.



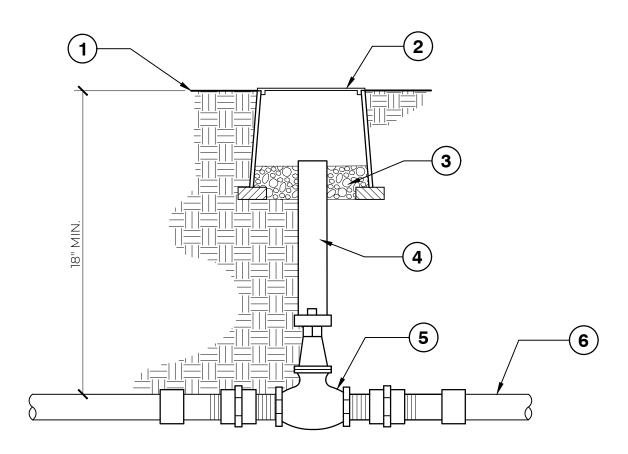
HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

MANUAL MAIN LINE DRAIN VALVE - 2" & UNDER

	DRAWN:	SCALE		
	DESIGN:	NONE		
	REVISION:			
	DATE:			

- 1 FINISH GRADE
- 2 10" CARSON BROOKS ROUND VALVE BOX
- (3) 3/4" WASHED GRAVEL
- **4**) 6" CL/200 SLEEVE
- (5) LEEMCO D/I R/W VALVE
- (6) MAIN LINE PIPE



- ALL GATE VALVES SHALL BE RESILIENT WEDGE WITH SQUARE KEY OR DOMESTIC MANUFACTURE NON RISING STEAM. 2001B WATER, OIL, GAS RATED.
- ALL GATE VALVES SHALL BE INSTALLED WITH VALVE BOXES. SIX OF TWELVE INCH EXTENSIONS SHALL BE ADDED WHEN NECESSARY TO BRING THE VALVE BOXES LEVEL WITH FINISH GRADE.
- 3. ADD ISOLATION VALVE EVERY 500 FEET OF MAIN LINE MINIMUM.



HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

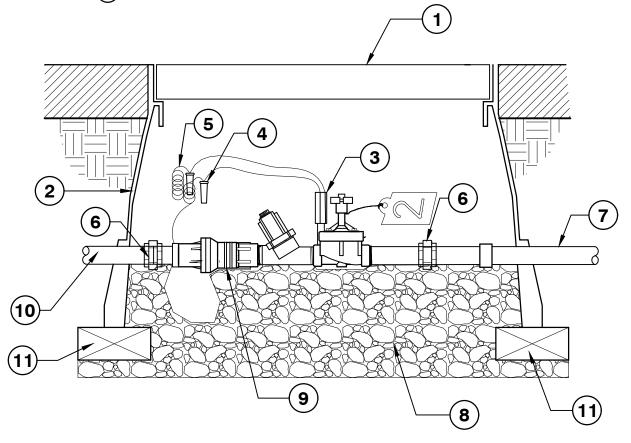
STANDARD DRAWING

ISOLATION VALVE

DRAWN:	SCALE
DESIGN:	NONE
REVISION:	
DATE: 8/19/2023	

- (1) JUMBO VALVE BOX
- WRAP BOX IN DEWITT PRO 5 W/4 BRICKS UNDERNEATH
- 3 DRIP ZONE KIT MODEL PER PLAN TIP FILTER 45 DEGREES
- (4) PAIGE WIRE CONNECTORS (2)
- 5 14 AWG PE WIRE. PLACED INSIDE OF MIN 1-1/2" CONDUIT, 4" ABOVE BOX FLOOR
- (6) ACTION MANIFOLD FITTINGS

- MAIN LINE PIPE, SCH. 80 FITTINGS
- (8) 3/4" MINUS WASHED GRAVEL
- **9)** REGULATOR: 25 OR 40 PSI
- LATERAL LINE PIPE, SCH. 40 FITTINGS
- (11) BRICK



ALL "DRIP" SPRINKLER SYSTEMS SHALL BE EQUIPPED WITH A LOW FLOW VALVE AND PRESSURE REDUCING FILTER AS APPROVED BY THE HYRUM CITY PARKS DEPARTMENT.

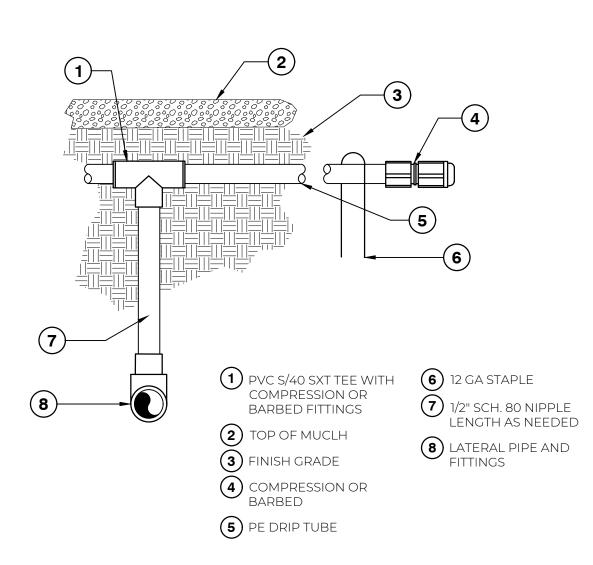


HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

DRIP CONTROL ZONE VALVE

٦	DRAWN:	SCALE		
	DESIGN:	NONE		
	REVISION:			
	DATE:	1		





HYRUM CITY 60 WEST MAIN STREET HYRUM, UT 84319

STANDARD DRAWING

PVC TO POLY CONNECTION

	DRAWN:	SCALE			
	DESIGN:	NONE			
	REVISION:				
	DATE:	l			