

STANDARD LANDSCAPING DETAILS

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LANDSCAPING DETAILS

DATE:
JANUARY 2015

DRAWING NAME:
LS-0

DRAWN BY:
ETL

CHECKED: APPROVED:

REVISIONS

REV	DATE	BY	COMMENTS

**SARATOGA
SPRINGS CITY**

1307 N. COMMERCE DR.
#200, SARATOGA SPRINGS,
UT 84045
PHONE: 801-766-9793
FAX: 801-669794



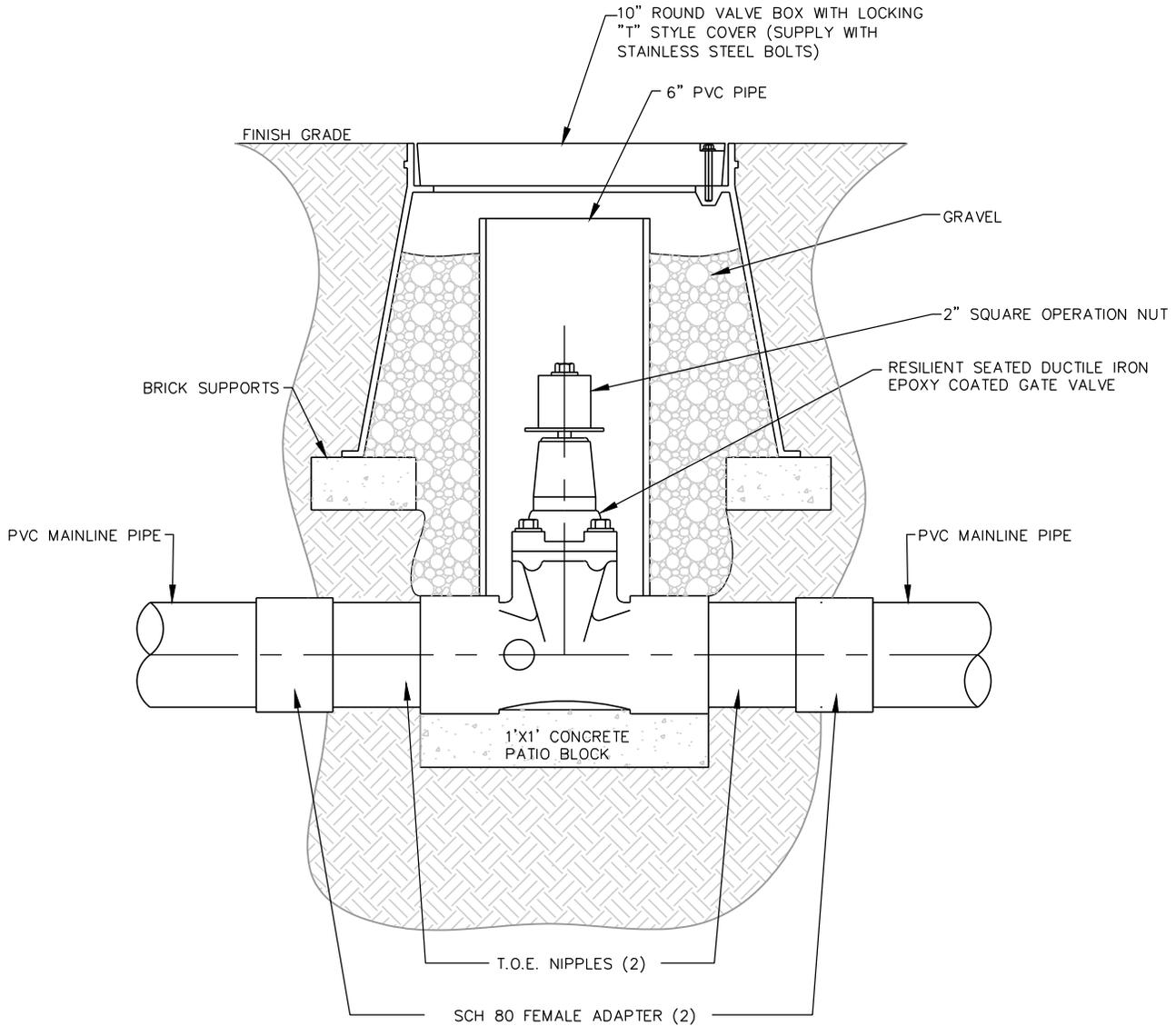
STANDARD DETAILS

LANDSCAPING

LS-0

NOTE:

1. GATE VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.
2. NO MALE ADAPTORS
3. VALVES SMALLER THAN 4 INCHES SHALL BE BRASS FULL THROAT GATE VALVES



MAINLINE ISOLATION VALVE

**SPRINKLER SYSTEM
MAINLINE ISOLATION
VALVE 4" AND LARGER**

DATE:
JANUARY 2015

DRAWING NAME:
LS-1

DRAWN BY:
ETL

CHECKED: APPROVED:

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REV	DATE	BY	COMMENTS

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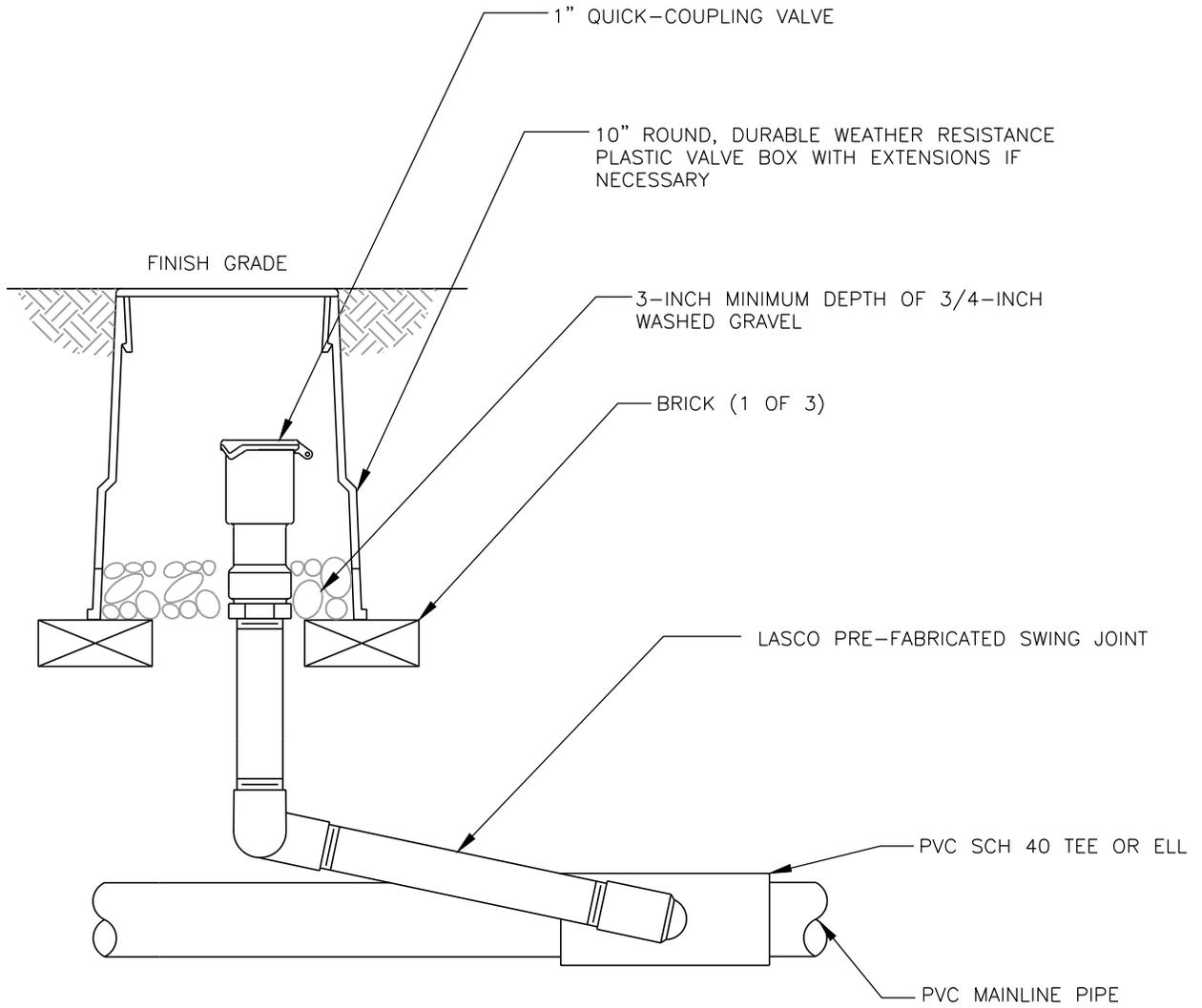
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**SPRINKLER SYSTEM
QUICK COUPLER
VALVE**

DATE:
JANUARY 2015

DRAWING NAME:
LS-2

DRAWN BY:
ETL

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REV	DATE	BY	COMMENTS

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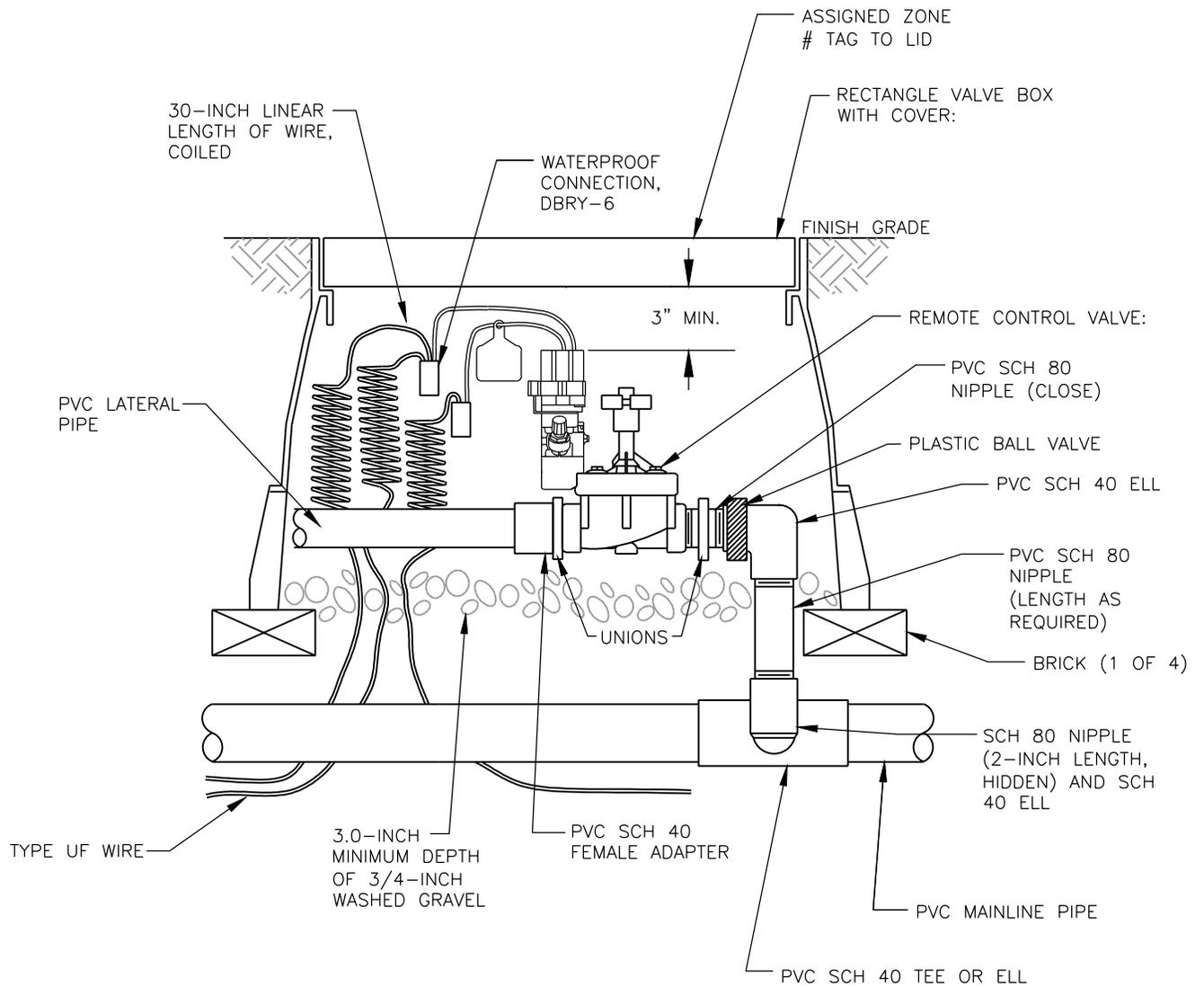
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STANDARD DETAILS

LANDSCAPING

LS-2



NOTES:

1. NO MALE ADAPTORS.
2. 1 VALVE PER BOX
3. NO ACTION MANUFACTURE FITTING

**SPRINKLER SYSTEM
REMOTE
CONTROL VALVE**

DATE:
JANUARY 2015

DRAWING NAME:
LS-3

DRAWN BY:
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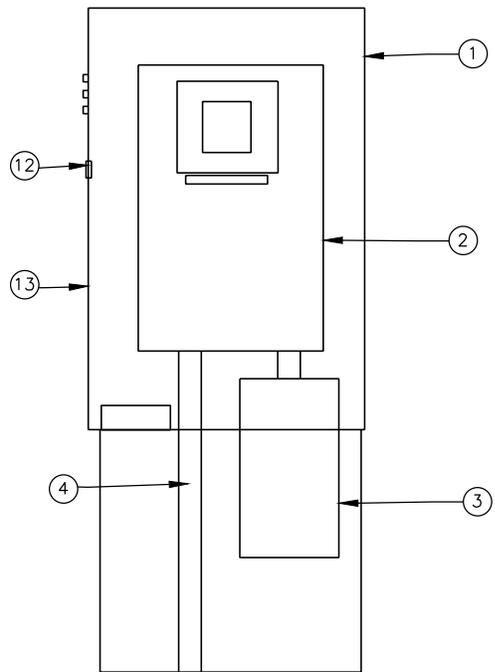
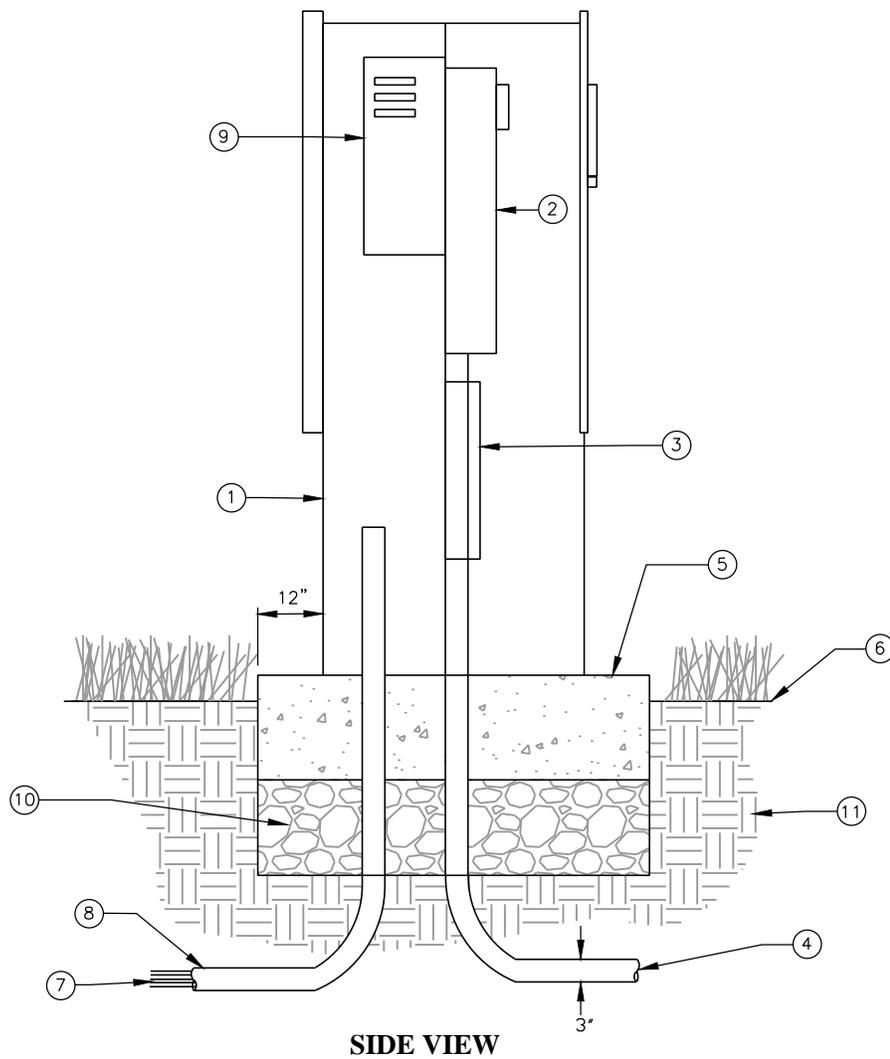
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STANDARD DETAILS

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LS-3



FRONT VIEW

NOTE:
GROUND LOW VOLTAGE WITH 3 GROUND ROD GRID 8 FEET APART

- ① METERED CONTROLLER ENCLOSURE, MUST BE RMP APPROVED
- ② METER SOCKET WITH TEST BLOCKS
- ③ LOAD CENTER
- ④ CONDUIT (NOT SUPPLIED) FOR LINE FEED INTO METER; 3" (MIN) SCH 40 GREY
- ⑤ POURED CONCRETE BASE 4" MIN. THICKNESS, EXTEND 12" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE WITH 0.5% MIN. SLOPE FOR DRAINAGE
- ⑥ FINISH GRADE
- ⑦ DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES
- ⑧ PVC LONG SWEEP ELL - USE ONE SWEEP 3" ELL PER CONTROLLER INSTALL ONE EXTRA 3" ELL FOR FUTURE USE
- ⑨ AUTOMATIC CONTROLLERS - REMOVE FRONT DOORS OF CONTROLLERS AND PLACE SIDE BY SIDE; HUNTER ACC W/ ALL IMMS RADIO CONTROL AND COMMUNICATION DEVICES
- ⑩ 6" MIN. ROAD BASE
- ⑪ SUBGRADE COMPACTED TO 95%
- ⑫ INSTALL SMART PORT THROUGH WALL OF STRONG BOX.
- ⑬ ENCLOSURE TO BE STAINLESS STEEL STRONG BOX, OR ACCEPTABLE EQUAL

**METER & CONTROLLER
STAINLESS STEEL
ENCLOSURE**

DATE: JANUARY 2015		REVISIONS	
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FIELD SATELLITE CONTROLLER,
LOCKING CONTROL BOX

AUTOMATIC CONTROLLER;
HUNTER ACC ACCLIMA ES
3500, OR EQUAL

STAINLESS STEEL STRONG BOX ENCLOSURE,
OR ACCEPTABLE EQUAL

INSTALL SMART PORT THROUGH
WALL OF STRONG BOX

INSTALL MOISTURE SENSORS AS
PER CITY STANDARDS

4" THICK CONCRETE PAD W/
6" ROAD BASE

FINISH GRADE

3-INCH PVC SCH 40 CONDUIT,
FITTINGS AND SWEEP ELL

DIRECT BURIAL CONTROL WIRES
TO REMOTE CONTROL VALVES

1-INCH PVC SCH 40 GREY
CONDUIT, FITTINGS AND SWEEP
ELL TO POWER SUPPLY

1-INCH PVC SCH 40
CONDUIT, FITTINGS AND SWEEP
ELL FOR TELEPHONE WIRE

1-INCH PVC SCH 40 CONDUIT,
FITTINGS AND SWEEP ELL FOR
#6 GROUND WIRE

12"

NOTE:

INSTALL HUNTER ACC WITH ALL IMMS RADIO CONTROL AND
COMMUNICATION DEVICES

**SATELLITE
STAINLESS STEEL
CONTROLLER
ENCLOSURE**

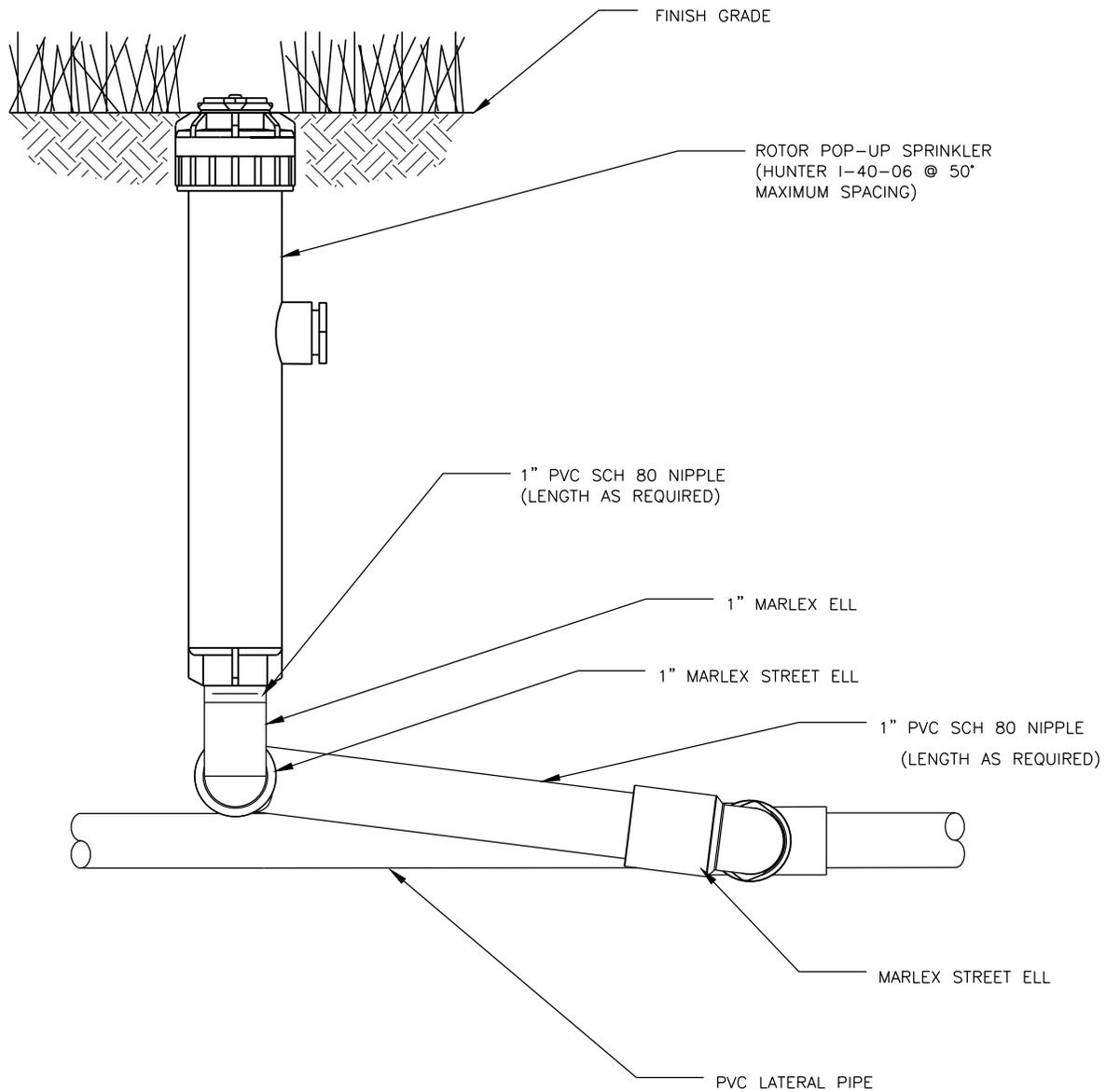
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DRAWING NAME: LS-5		REV	DATE BY COMMENTS
DRAWN BY: ETL			
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STANDARD DETAILS

LANDSCAPING

LS-5



NOTE:

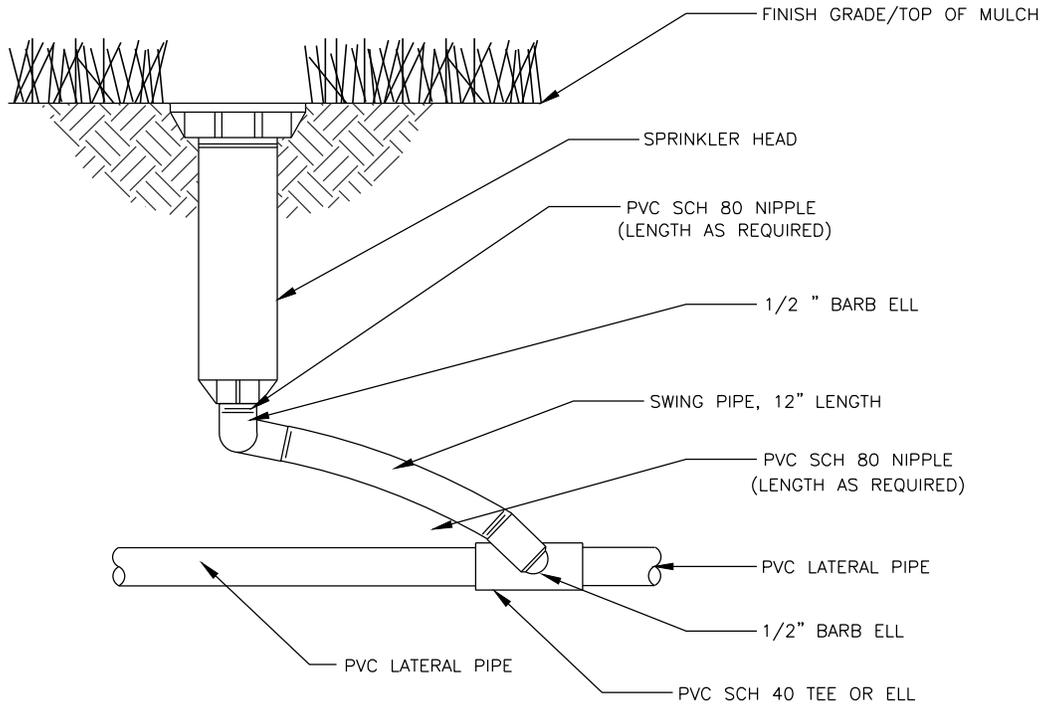
1. USE MARLEX STREET ELL
2. USE OF TEFLON TAPE OR PIPE DOPE IS NOT PERMITTED ON MARLEX STREET ELLS

**SPRINKLER SYSTEM
LARGE AREA ROTARY
HEAD DETAIL**

DATE: JANUARY 2015		REVISIONS	
DRAWING NAME: LS-6		REV	DATE BY COMMENTS
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STANDARD DETAILS
LANDSCAPING
LS-6



ROTORS FOR MEDIUM AND SMALL AREAS:

HUNTER I-20-06 @ 35' MAXIMUM SPACING

SPRAY HEADS FOR SMALL AREAS:

RAINBIRD #1806 FOR TURF AREAS, #1812 FOR SHRUB BEDS

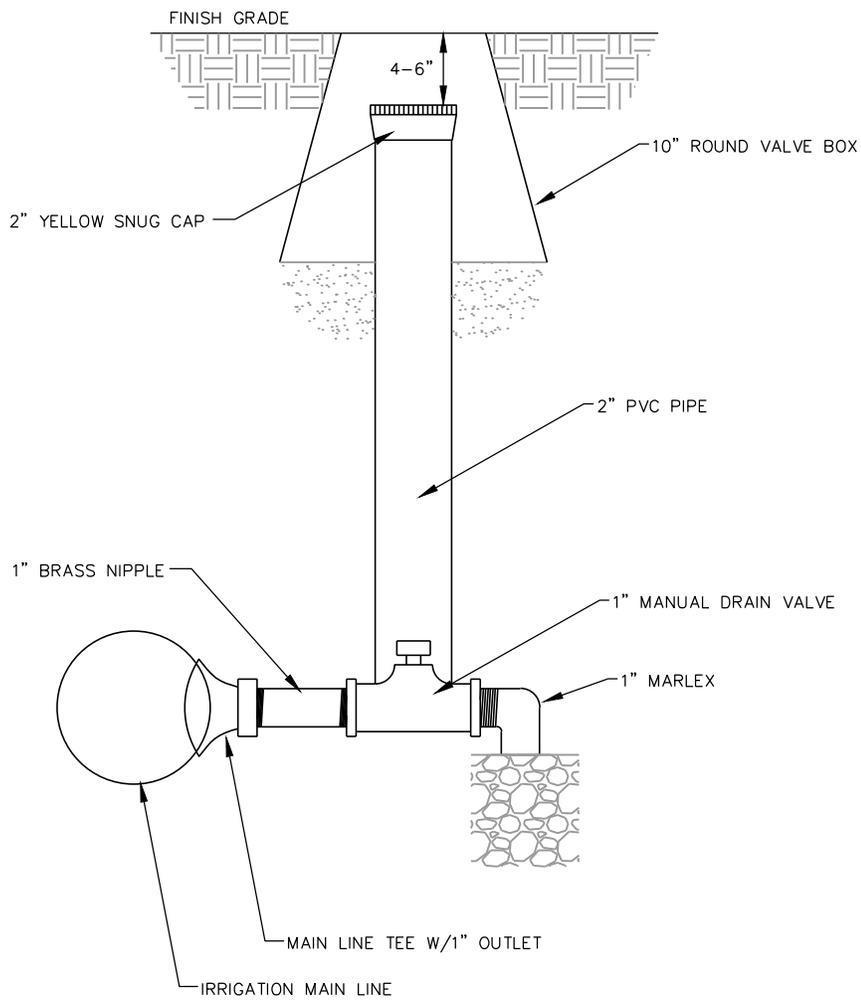
HUNTER 6" PRO-SPRAY FOR TURF AREAS, 12" PRO-SPRAY FOR SHRUB BEDS

**MEDIUM AND
SMALL AREA
SPRINKLER HEAD
DETAIL**

DATE: JANUARY 2015		REVISIONS	
DRAWING NAME: LS-7		REV	DATE BY COMMENTS
DRAWN BY: ETL			
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STANDARD DETAILS
LANDSCAPING
LS-7



**SPRINKLER SYSTEM
MANUAL DRAIN
DETAIL**

DATE:
JANUARY 2015

DRAWING NAME:
LS-8

DRAWN BY:
ETL

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REV	DATE	BY	COMMENTS

**SARATOGA
SPRINGS CITY**

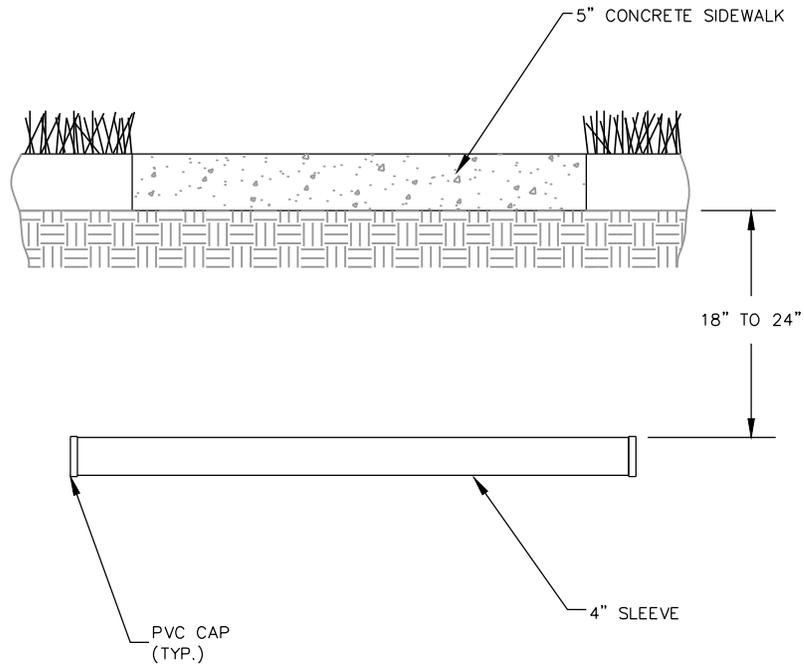
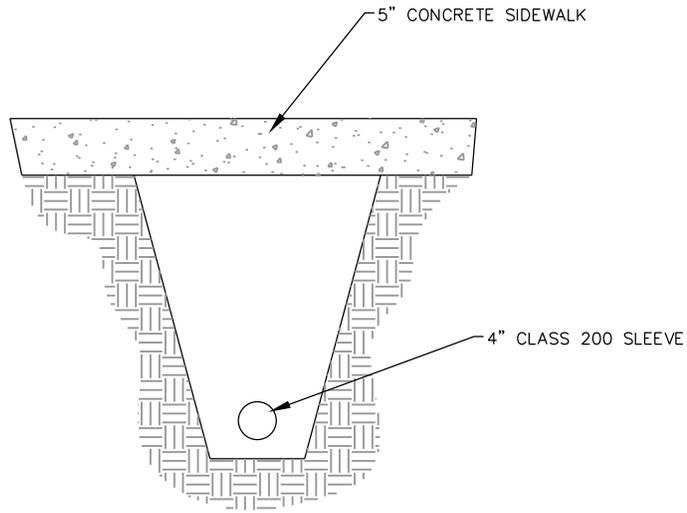
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STANDARD DETAILS

LANDSCAPING

LS-8



NOTES:

- 1. ONE WATER LINE PER SLEEVE.
- 2. ELECTRICITY AND WATER NOT TO SHARE SLEEVES.

**SPRINKLER SYSTEM
SLEEVING
DETAIL**

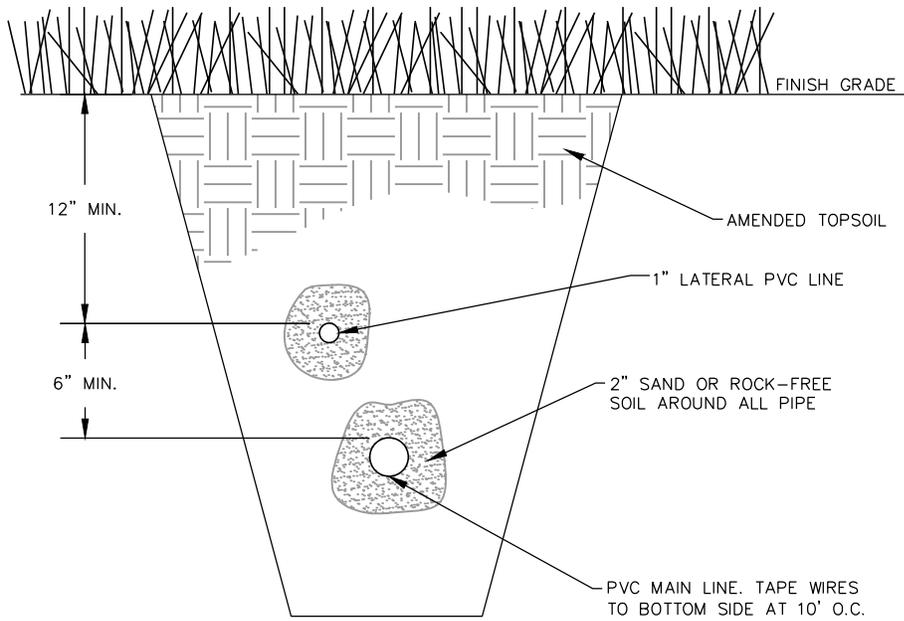
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DRAWING NAME: LS-9		REV	DATE
DRAWN BY: ETL		BY	COMMENTS
CHECKED: APPROVED:			
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STANDARD DETAILS

LANDSCAPING

LS-9



**SPRINKLER SYSTEM
PIPE/TRENCH
DETAIL**

DATE: JANUARY 2015		REVISIONS	
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DRAWN BY: ETL			
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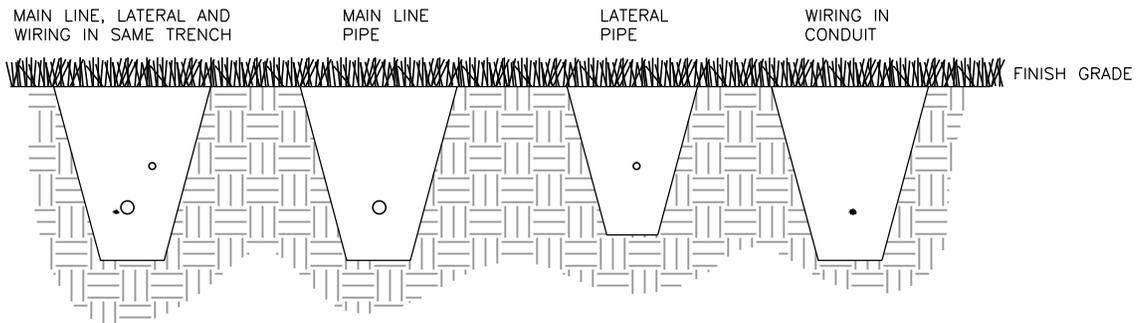


STANDARD DETAILS

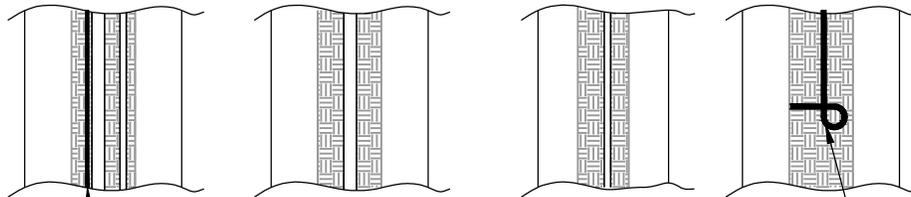
LANDSCAPING

LS-10

SECTION VIEW



PLAN VIEW



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

TIE A 24" LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.

NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS DETAILS. SEE SPECS.
3. ELECTRIC AND WATER NOT TO SHARE SLEEVES.

**SPRINKLER SYSTEM
PIPE AND WIRE
TRENCH DETAIL**

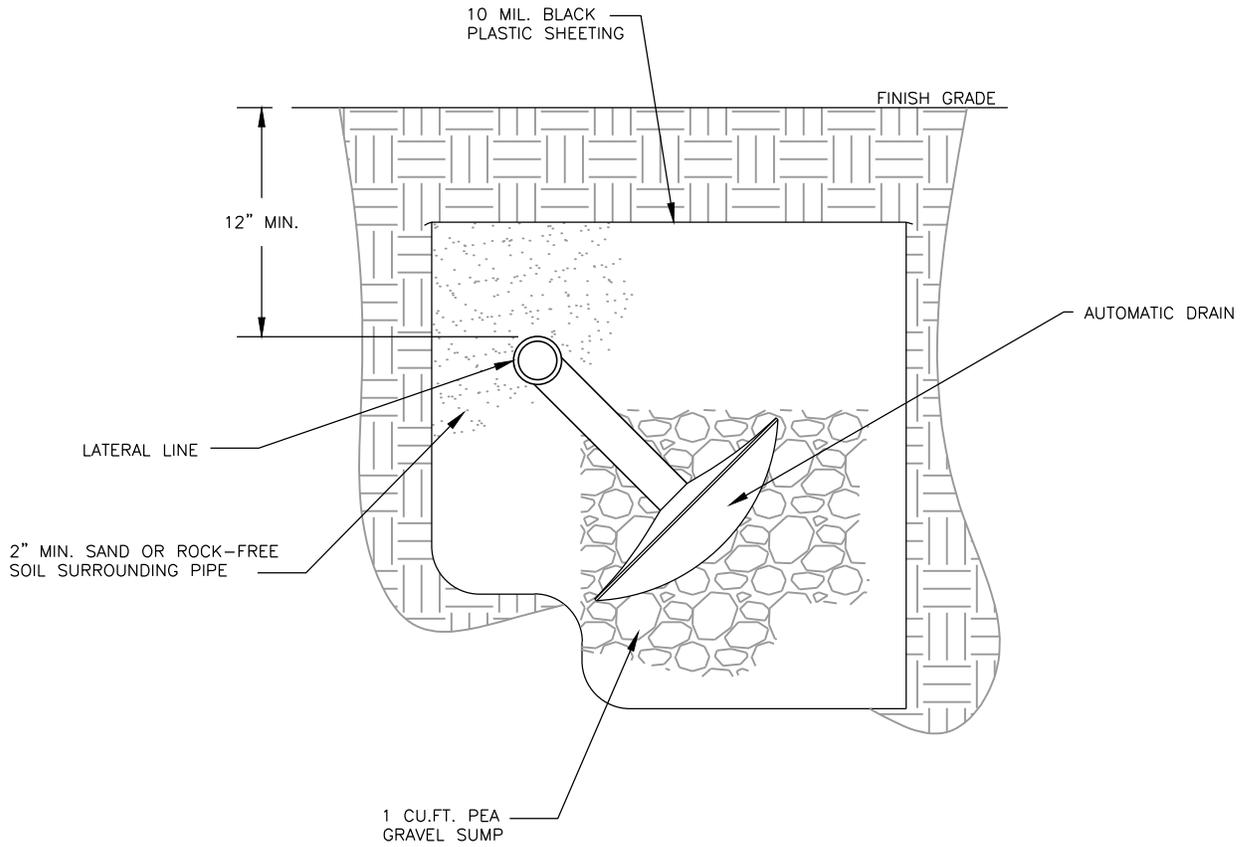
DATE: JANUARY 2015		REVISIONS	
DRAWING NAME: LS-11		REV	DATE BY COMMENTS
DRAWN BY: ETL			
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STANDARD DETAILS

LANDSCAPING

LS-11



NOTE:

1. USE ONLY AT LOW POINTS OF LATERAL LINES.
DO NOT USE IN VALVE BOXES.
2. DO NOT USE ON MAIN LINE

**SPRINKLER SYSTEM
AUTOMATIC
DRAIN**

DATE: JANUARY 2015		REVISIONS	
DRAWING NAME: LS-12		REV	DATE BY COMMENTS
DRAWN BY: ETL			
CHECKED:	APPROVED:	SARATOGA SPRINGS CITY	
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STANDARD DETAILS
LANDSCAPING
LS-12

NOTES:

1. INSTALLATION INCLUDES REMOVAL OF STAKES AND WATERING RING ONE YEAR AFTER INSTALLATION.
2. SHAPE SOIL SURFACE TO PROVIDE 3' DIAMETER WATERING RING.
3. MULCH TREE PIT MIN 5'-0" LENGTH x FULL PLANTING STRIP WIDTH BETWEEN CURB AND SIDEWALK (FOR PLANTING STRIPS LESS THAN 6'-0"WIDE.) PROVIDE 5'-0"Ø MULCH RING FOR PLANTING STRIPS WIDER THAN 6'-0".
4. TREE PIT DEPTH = ROOTBALL DEPTH (MEASURE BEFORE DIGGING TO AVOID OVER EXCAVATION).
5. GRANULAR FERTILIZER PLACE AFTER PLANT HOLE IS BACKFILLED. QUANTITY BASED ON TREE GROWERS RECOMMENDATIONS.

STAKE TREE WITH (2) TREATED 2"Ø LODGEPOLE PINE DOWELED TREE STAKES (8'-0" LENGTH) LOOP EACH TIE AROUND HALF TREE LOOSELY TO PROVIDE 1" SLACK FOR TRUNK GROWTH

"CHAINLOCK" OR EQUAL TREE TIE MATERIAL (1" WIDTH) NAIL OR STAPLE TREE TIE MATERIAL TO STAKE TO HOLD VERTICALLY. LOOP EACH TIE AROUND HALF TREE LOOSELY TO PROVIDE 1" SLACK FOR TRUNK GROWTH

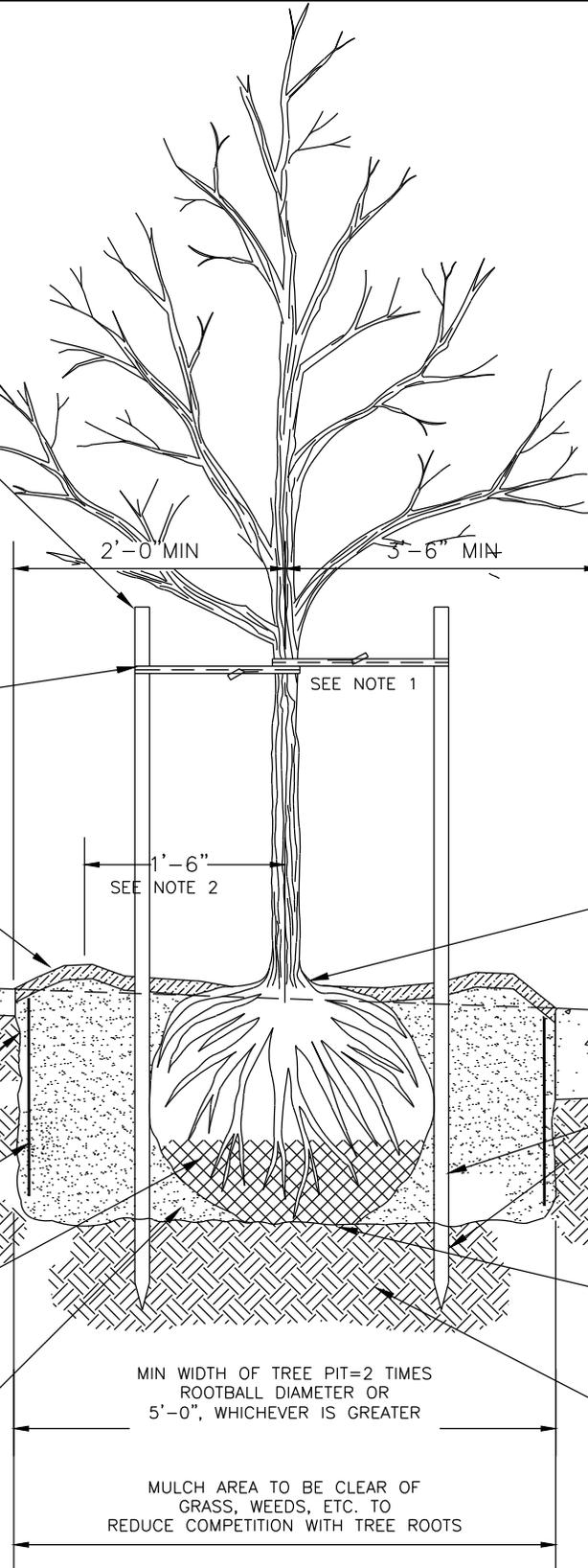
2"-3" MULCH DEPTH (TAPERED AT TRUNK)

ROUGHEN SIDES OF PLANTING HOLE MAXIMIZE EXCAVATED AREA WITHOUT UNDERMINING ADJACENT PAVING/CURB OR GRASS

18" DEEP ROOT BARRIER (TYP. WITHIN 10' OF PAVING)

REMOVE ALL WIRE & STRING, AND REMOVE ALL BURLAP FROM TOP 1/2 OF ROOTBALL

NATIVE BACKFILL SOIL AMENDMENT WITH 25% (@1/3 CU YD) DECOMPOSED ORGANIC MULCH AMENDMENT FOR ENTIRE TREE PIT AREA X ROOTBALL DEPTH



SET TOP OF ROOT CROWN 2" ABOVE ADJACENT CURB & SIDEWALK GRADE

DRIVE STAKES 6" TO 1'-0" INTO UNDISTURBED SOIL BELOW ROOTBALL AT EDGE ROOTBALL (TYP)

ENSURE NO VOIDS OR AIR POCKETS UNDER AND AROUND ROOTBALL

UNDISTURBED SUBGRADE (PROVIDES FIRM BASE SO THAT ROOTBALL WILL NOT SINK)

MIN WIDTH OF TREE PIT=2 TIMES ROOTBALL DIAMETER OR 5'-0", WHICHEVER IS GREATER

MULCH AREA TO BE CLEAR OF GRASS, WEEDS, ETC. TO REDUCE COMPETITION WITH TREE ROOTS

TREE STAKING AND PLANTING

DATE: **JANUARY 2015**

DRAWING NAME: **LS-13**

DRAWN BY: **ETL**

CHECKED: APPROVED:

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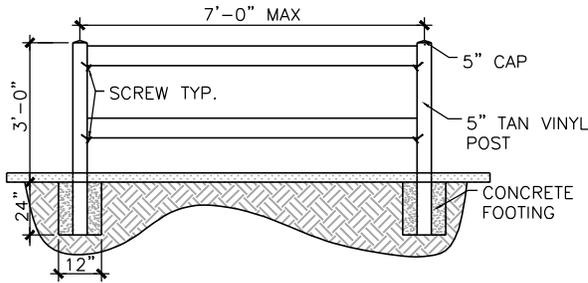
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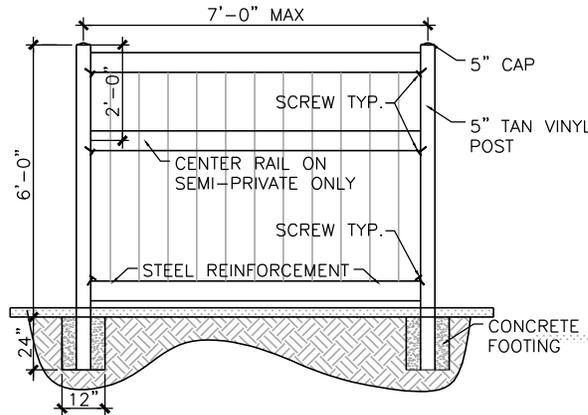
STANDARD DETAILS

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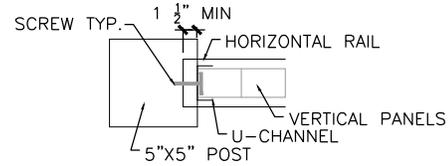
LS-13



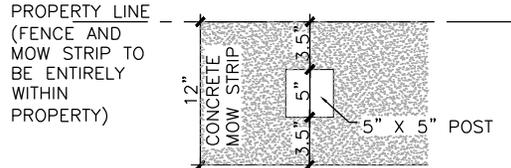
2-RAIL FRONT VIEW



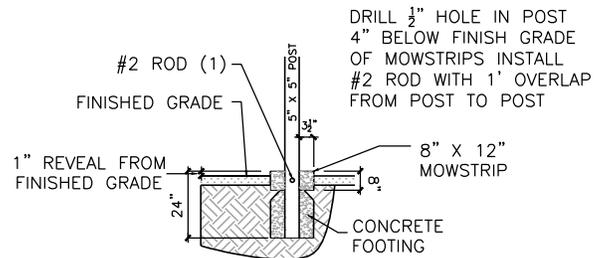
PRIVATE/SEMI-PRIVATE FRONT VIEW



POST TOP VIEW



MOW STRIP TOP VIEW



MOW STRIP TYP. CROSS SECTION

NOTES:

1. ALL ATTACHMENT SCREWS TO BE ZINC PLATED
2. FENCING SUB-CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FENCING
3. GLUE ON CAPS WITH CLEAR PVC CEMENT
4. EXTEND RAIL AND STIFFENER INTO EACH POST 1 1/2" MINIMUM.
5. MAXIMUM DISTANCE FROM CENTER OF POST TO CENTER OF POST IS 7'.
6. PROVIDE 12" MINIMUM CIRCUMFERENCE HOLE FOR POST WITH A MINIMUM BURY DEPTH OF 24".
7. USE WET MIX CONCRETE ONLY. ALLOW TO SET FOR 5 DAYS BEFORE SETTING RAILS. MINIMUM 3,000 PSI MIX.
8. USE VERTICAL U-CHANNEL ON ALL PRIVACY FENCING POSTS TO SUPPORT FENCE PANELS. ON SEMI PRIVATE FENCING USE WHERE PANELS ARE ADJACENT TO POSTS. SCREW SPACING ON U-CHANNELS TO BE 18" MAX. WITH A MINIMUM OF 2 SCREWS PER SEGMENT.
9. ATTACH ALL RAILS TO POSTS WITH FULL SHANK THREADED, ZINC PLATED, WOOD SCREWS (2"). "CRIMPED ENDS" ON RAILS NOT ACCEPTABLE. SECURE SCREW THROUGH POST AND INTO RAIL FROM UNDERNEATH THE HORIZONTAL RAIL EXCEPT ON BOTTOM RAIL WHERE SCREW CAN BE INSTALLED FROM THE TOP.
10. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CITY'S STANDARD SPECIFICATIONS.
11. COMPACT NATIVE SOIL BELOW MOW STRIP TO 90%
12. WHITE VINYL FENCING NOT PERMITTED.

Privacy Fence			
	Post	Horizontal Rail	Vertical Planks
Wall thickness	0.15"	0.09"	0.06"
Dimension	5"x5", 6' tall above grade	1 1/2" X 5 1/2"	5/8" X 6"
Reinforcement Steel/Alum.	NO	Bottom Rail only	NO
Type	Square	rectangular	T & G rectangular
Spacing	7' on Center	N/A	0"
Semi-Private			
	Post	Horizontal Rail	Vertical Planks
Wall thickness	0.15"	0.09"	0.06"
Dimension	5"x5", 6' tall above grade	1 1/2" X 3 1/2"	5/8" X 3"
Reinforcement Steel/Alum.	NO	Bottom rail only	NO
Type	square	Rectangular	Rectangular
Spacing	7' on center	Approx. 2' on center	4" on center
Two Rail Fence			
	Post	Horizontal Rail	Vertical Planks
Wall thickness	0.15"	0.125"	N/A
Dimension	5"x5", 3' tall above grade	2" X 6"	N/A
Reinforcement Steel/Alum.	NO	NO	NO
Type	square	rectangular	rectangular
Spacing	7' on center	aprox. 16" apart	N/A

VINYL FENCE WITH MOW STRIP

DATE: **JANUARY 2015**

DRAWING NAME: **LS-14**

DRAWN BY: **ETL**

CHECKED: APPROVED:

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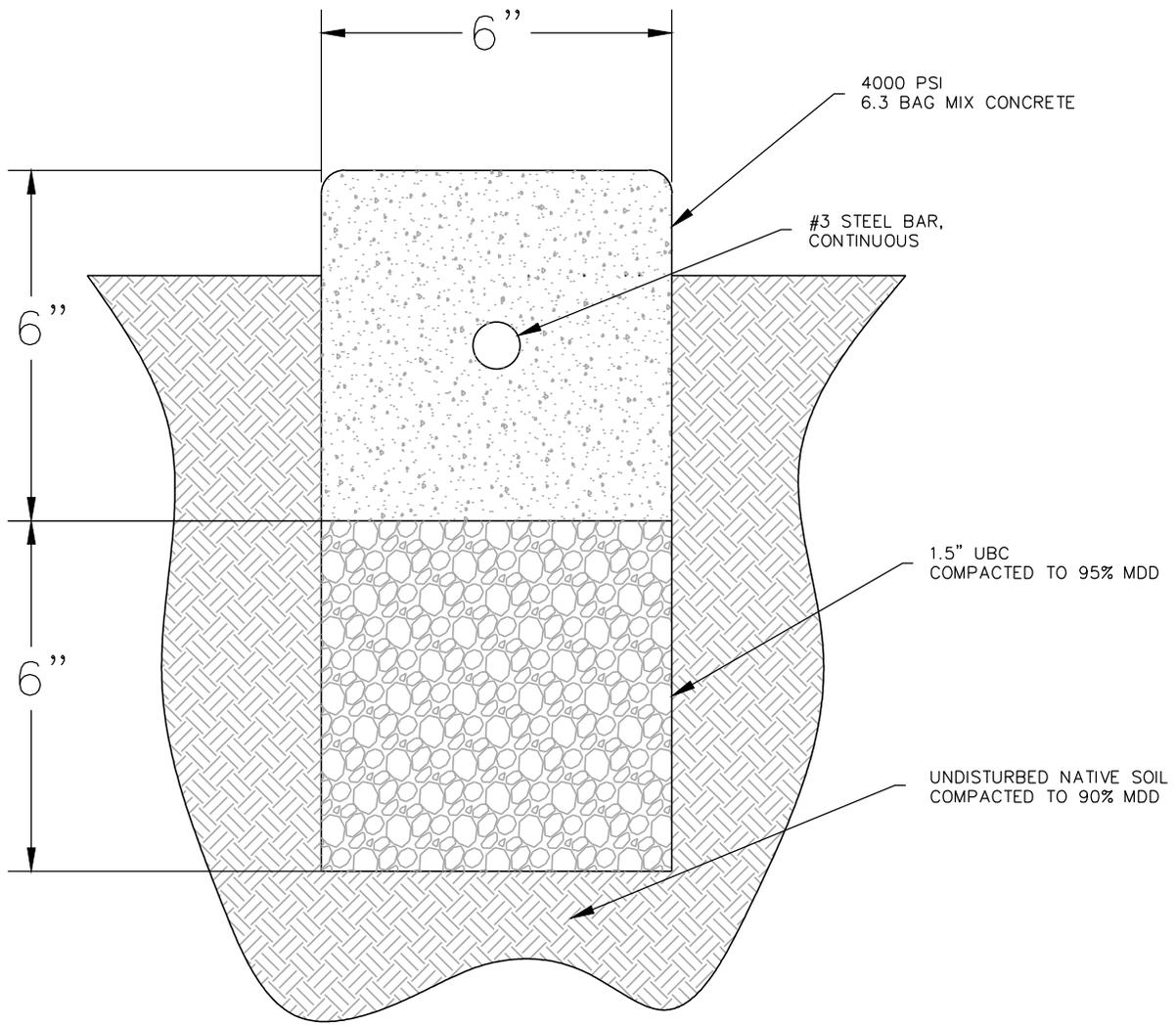
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STANDARD DETAILS

LANDSCAPING

LS-14



**CONCRETE
MOW CURB**

DATE: JANUARY 2015		REVISIONS	
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