

# STANDARD LANDSCAPING DETAILS

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VAL CITY STANDARD DETAIL (Saratoga Standard) COVER SHEET AND NOTES L.S. 0.dwg - 5/11/2008 9:45:05 PM davin

**LANDSCAPING  
DETAILS**

DATE: JANUARY 2005	
DRAWING NAME: LS-0	
DRAWN BY: JMC/DKB	
CHECKED:	APPROVED:

REVISIONS		
REV	DATE	BY
COMMENTS		



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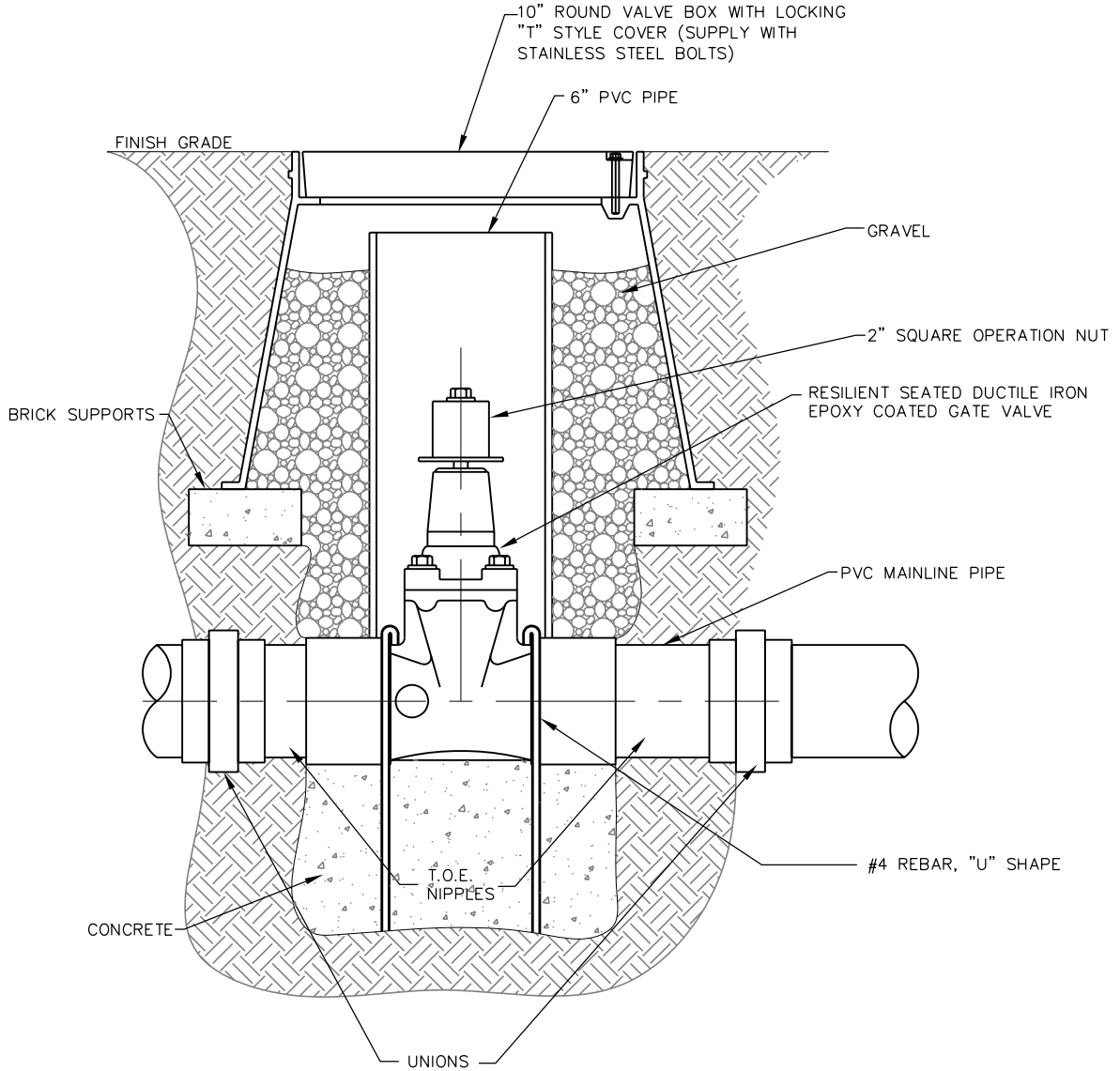


<b>REV. B</b> STANDARD DETAILS
<b>SARATOGA CITY</b>
<b>LS-0</b>

**NOTE:**

1. GATE VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.

2. PROTECT VALVE BODY WITH 10MIL PLASTIC PRIOR TO INSTALLATION OF REBAR & SUPPORT BLOCK.



**MAINLINE ISOLATION VALVE**

VALVE CITY STANDARD DETAIL (S) Saratoga Springs, NY 12158-0000 / 11/20/06 09:27:56 AM d.ravin

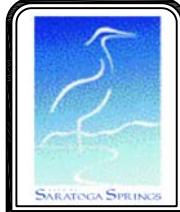
**SPRINKLER SYSTEM  
MAINLINE ISOLATION  
VALVE 2" & SMALLER**

DATE: SEPTEMBER 2005	
DRAWING NAME: LS-1	
DRAWN BY: JMC/DKB	
CHECKED:	APPROVED:

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REV	DATE	BY

COMMENTS

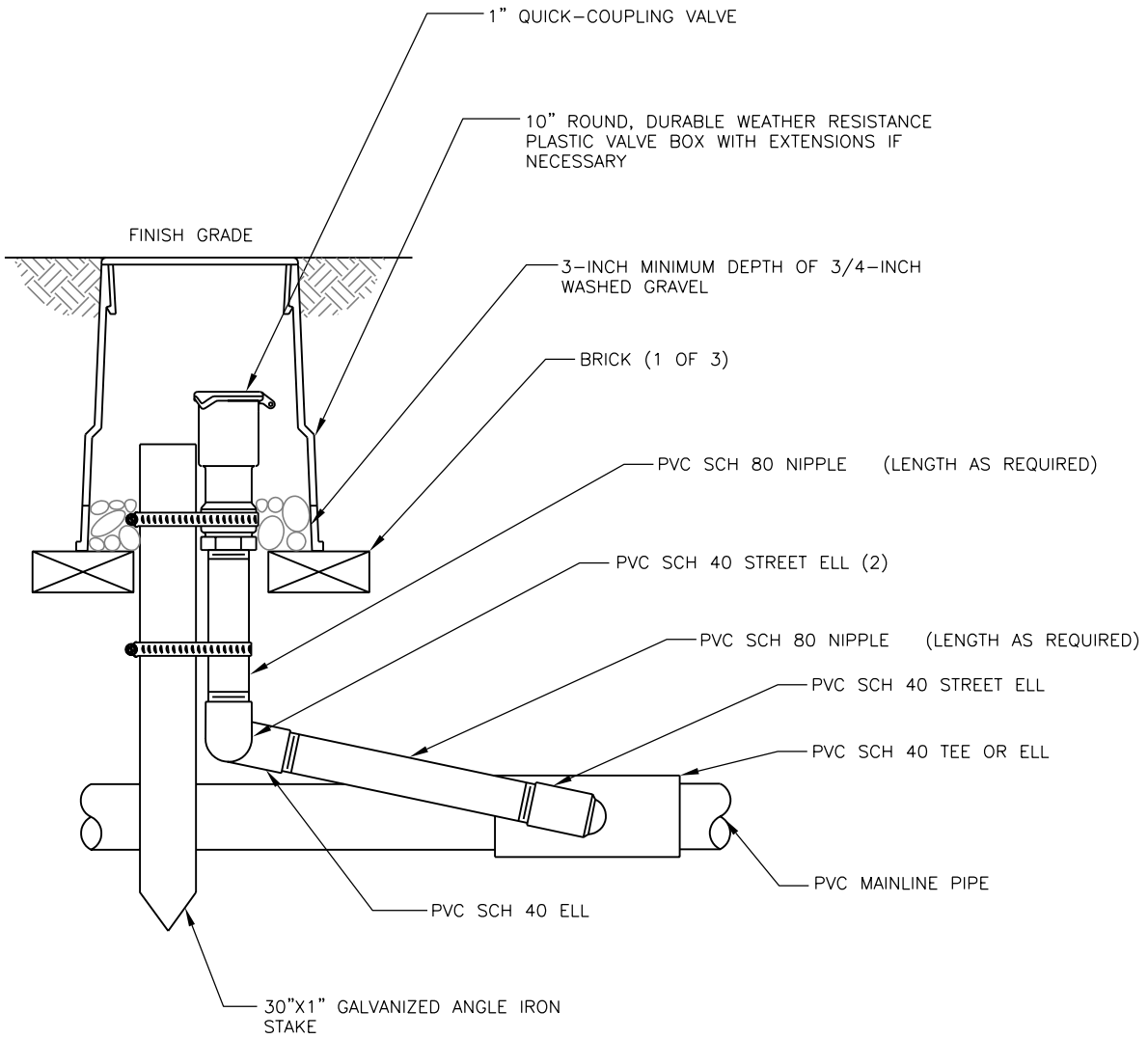
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STANDARD DETAILS

**SARATOGA CITY**

**LS-1**



**NOTE:**

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

**SPRINKLER SYSTEM  
QUICK COUPLER  
VALVE**

DATE:  
SEPTEMBER 2005

DRAWING NAME:  
LS-2

DRAWN BY:  
JMC/DKB

CHECKED: APPROVED:

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REV	DATE	BY	COMMENTS



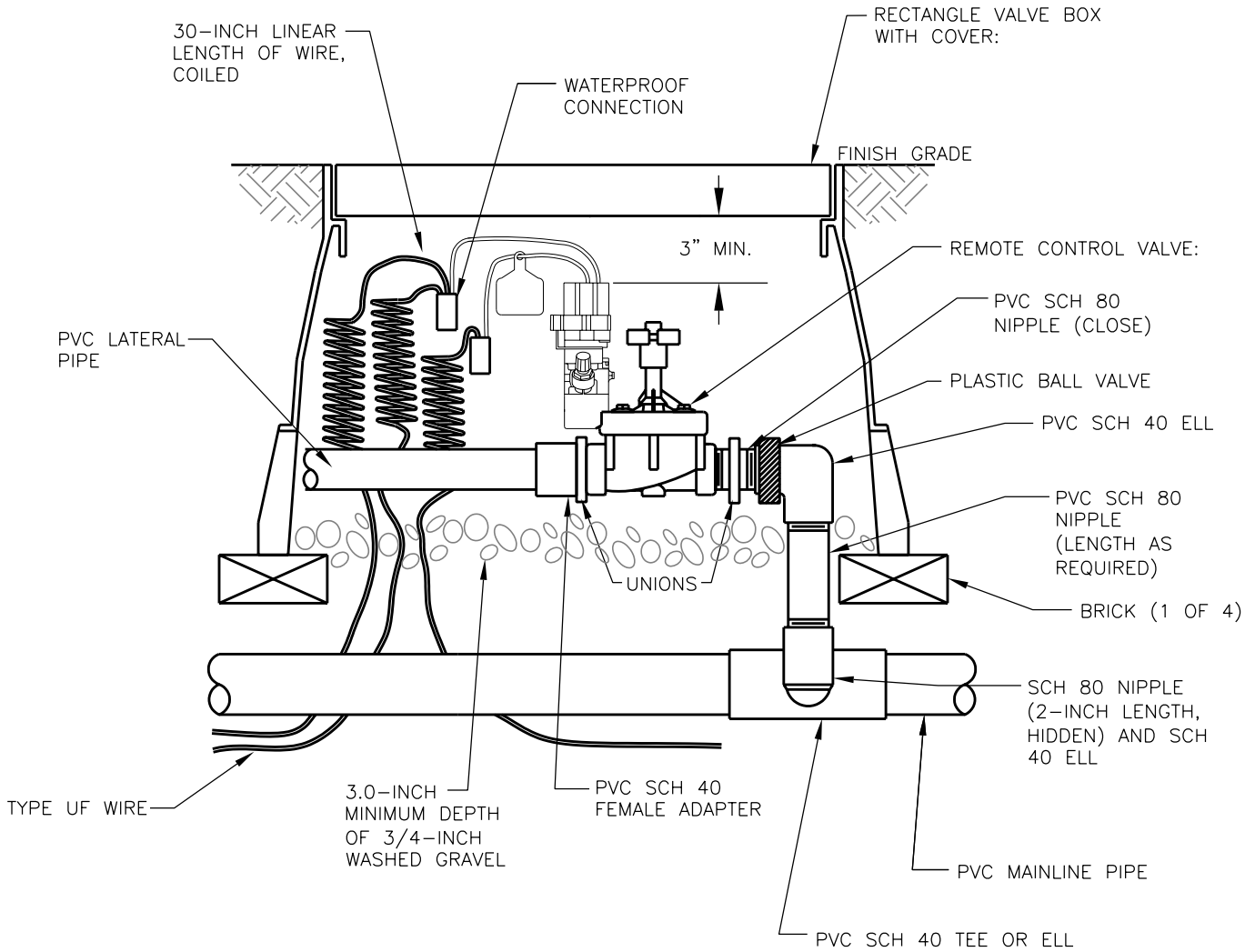
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STANDARD DETAILS

SARATOGA CITY

LS-2



**NOTES:**

- 1. NO MALE ADAPTORS.
- 2. 1 VALVE PER BOX

**SPRINKLER SYSTEM  
REMOTE  
CONTROL VALVE**

DATE: MARCH 2006	
DRAWING NAME: LS-3	
DRAWN BY: JMC/DKB	
CHECKED:	APPROVED:

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REV	DATE	BY	COMMENTS
C	4-6-06	MH	REDLINES

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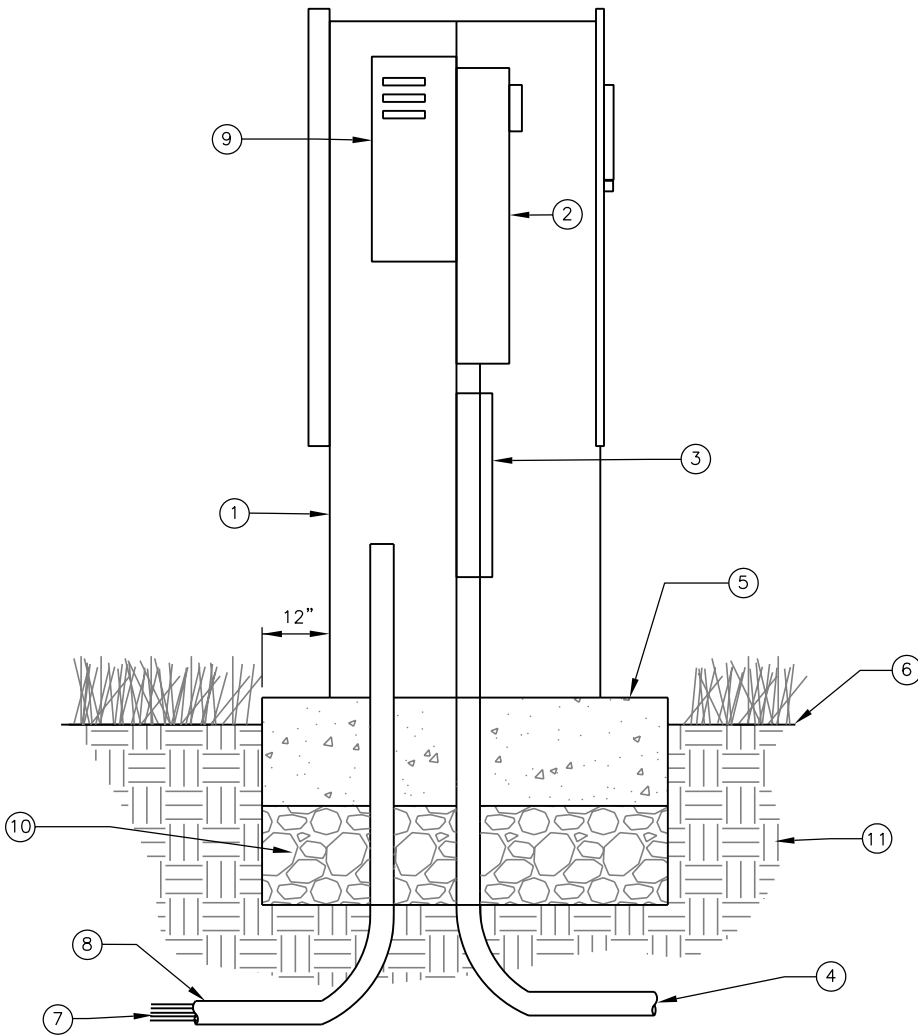
**REV. C**  
STANDARD DETAILS

**SARATOGA CITY**

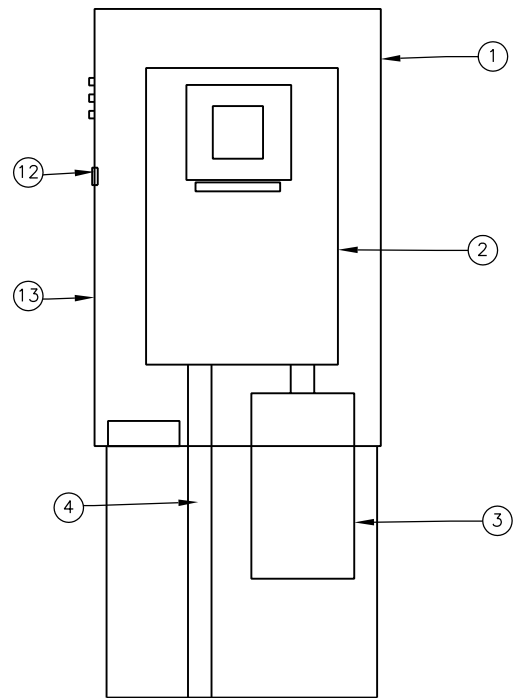
**LS-3**

VALVE CITY STANDARD DETAIL SPRINKLER SYSTEM REMOTE CONTROL VALVE WITH COVER 4/10/06 08.00 12.12 AM dcbw

VALLEY CITY STANDARD DETAIL SPRINKLER SYSTEMS - STAINLESS STEEL ENCLOSURE - 1/12/06 09:03 AM - dlm



**SIDE VIEW**



**FRONT VIEW**

- ① METERED CONTROLLER ENCLOSURE
- ② METER SOCKET WITH TEST BLOCKS
- ③ LOAD CENTER
- ④ CONDUIT (NOT SUPPLIED) FOR LINE FEED INTO METER; 2" (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 ICV W/ FILTER SENTRY
- 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

**NOTE:**


GROUND LOW VOLTAGE WITH 3 GROUND ROD GRID 8 FEET APART

**METER BASE AND CONTROLLER**

**SPRINKLER SYSTEM  
STAINLESS STEEL  
CONTROLLER  
IN STRONG BOX**

DATE: MARCH 2006	
DRAWING NAME: LS-4A	
DRAWN BY: JMC/DKB	
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REV	DATE	BY	COMMENTS
C	4-6-06	MH	REDLINES


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**LS-4A**

FIELD SATELLITE CONTROLLER,  
LOCKING CONTROL BOX

AUTOMATIC CONTROLLER;  
HUNTER ACC ACCLIMA ES  
3500, OR EQUAL

STAINLESS STEEL STRONG BOX ENCLOSER,  
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

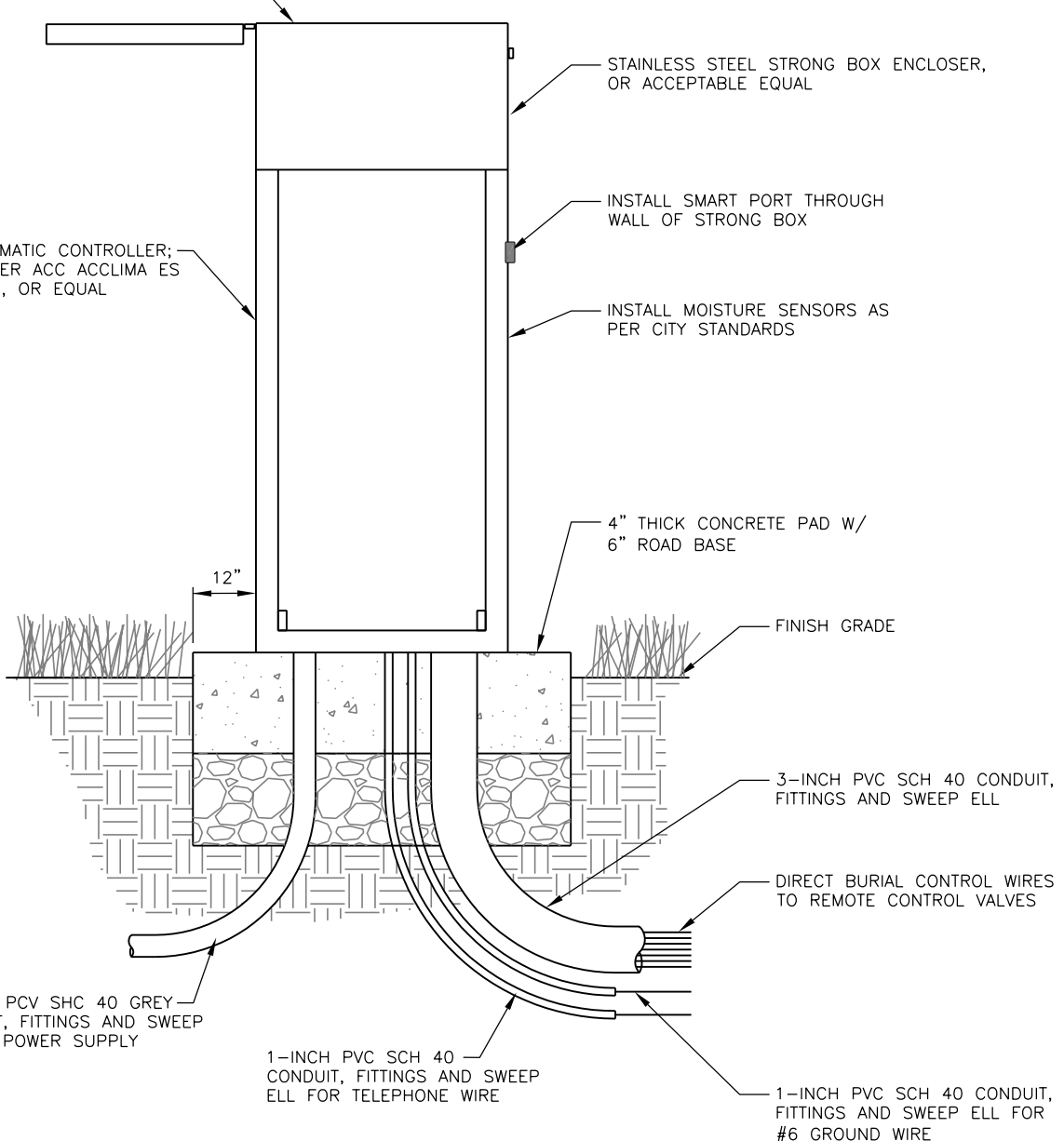
3-INCH PVC SCH 40 CONDUIT,  
FITTINGS AND SWEEP ELL

DIRECT BURIAL CONTROL WIRES  
TO REMOTE CONTROL VALVES

1-INCH PCV SHC 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



VAL CITY STANDARD DETAIL (S) Saratoga Springs, NY 12158-0001 (1) 4/11/06

**SATELLITE SPRINKLER  
SYSTEM STAINLESS  
STEEL CONTROLLER**

DATE: MARCH 2006	
DRAWING NAME: LS-4	
DRAWN BY: JMC/DKB	
CHECKED:	APPROVED:

REVISIONS		
REV	DATE	BY
C	4-6-06	MH
COMMENTS		
REDLINES		

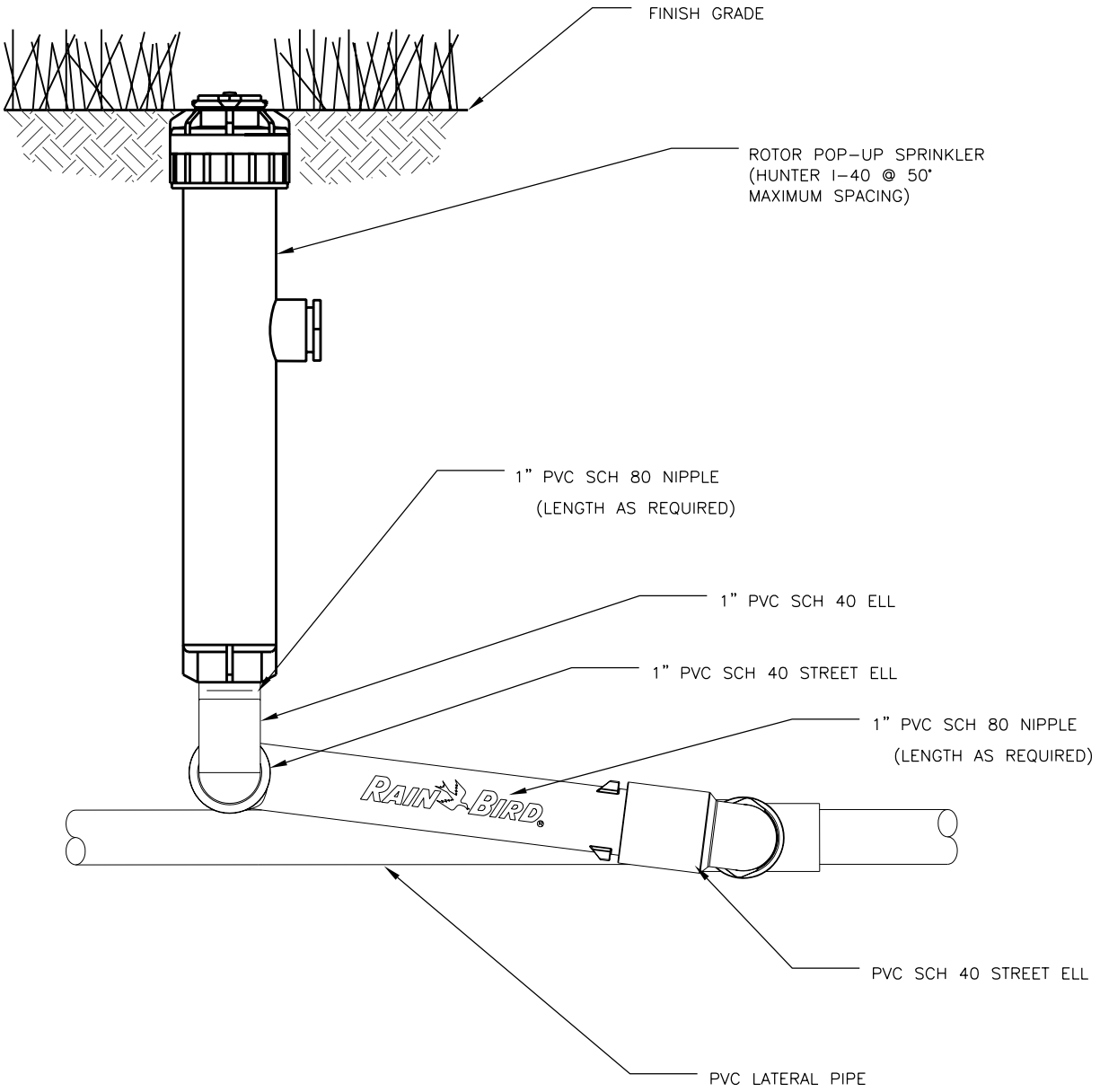
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STANDARD DETAILS

**SARATOGA CITY**

**LS-4B**



**NOTE:**

STREET ELLS TO BE MARLEX, OR EQUAL

**LARGE AREA ROTOR**

VAL CITY STANDARD DETAIL SPRINKLER SYSTEMS - ROTARY HEAD SPRINKLER SYSTEMS - 11/19/2005 09:50:50 AM - dlv

**SPRINKLER SYSTEM  
ROTARY HEAD POP-UP  
SPRINKLER DETAIL**

DATE: SEPTEMBER 2005	
DRAWING NAME: LS-5	
DRAWN BY: JMC/DKB	
CHECKED:	APPROVED:

REVISIONS			
REV	DATE	BY	COMMENTS

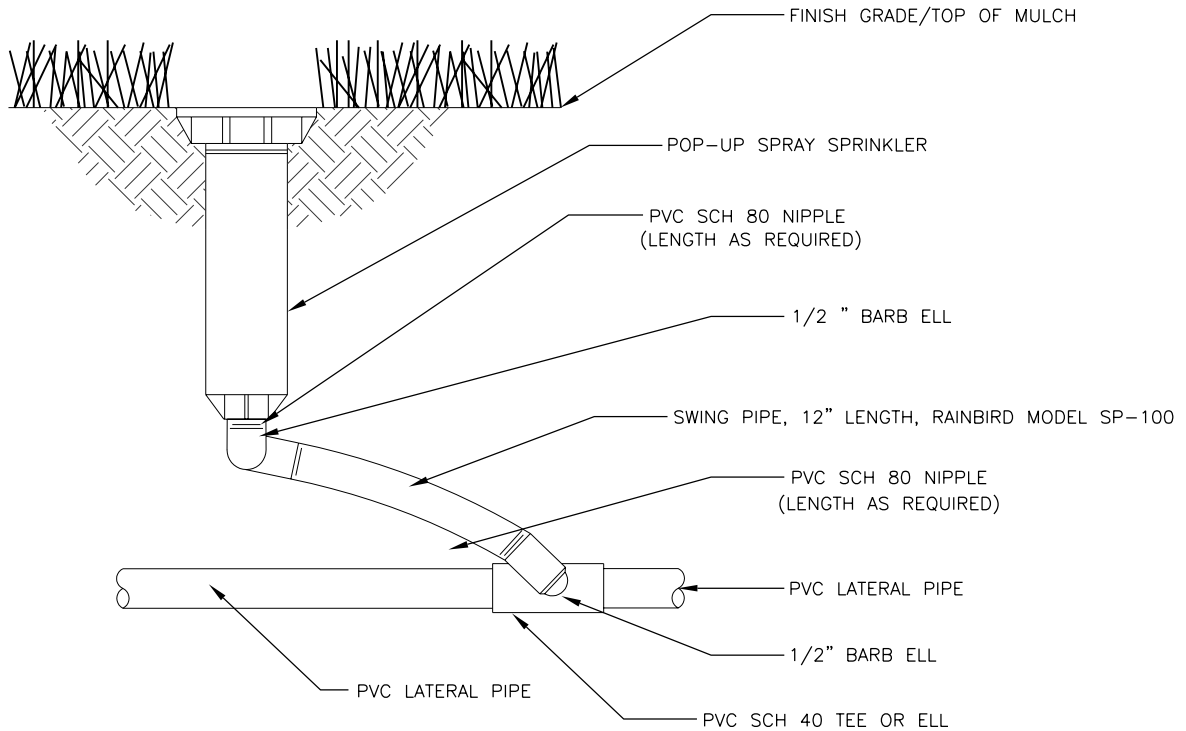
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**REV. B  
STANDARD DETAILS**

**SARATOGA CITY**

**LS-5**



**MEDIUM AREA ROTOR:** HUNTER I-20 @ 35' MAXIMUM SPACING

**SMALL AREA ROTOR:** HUNTER PGP @ 30' MAXIMUM SPACING

**SPRAY HEADS: RAINBIRD** #1804 FOR TURF AREAS, #1812 FOR SHRUB BEDS

**MEDIUM AREA ROTOR  
SMALL AREA ROTOR**

VAL CITY STANDARD DETAIL SPRINKLER SYSTEMS AND SCABINETS 6 POP-UP SPRAY 4/19/2005 0:21:25 AM dwin

**SPRINKLER SYSTEM  
POP-UP SPRAY  
SPRINKLER DETAIL**

DATE: SEPTEMBER 2005	
DRAWING NAME: LS-6	
DRAWN BY: JMC/DKB	
CHECKED:	APPROVED:

REVISIONS			
REV	DATE	BY	COMMENTS

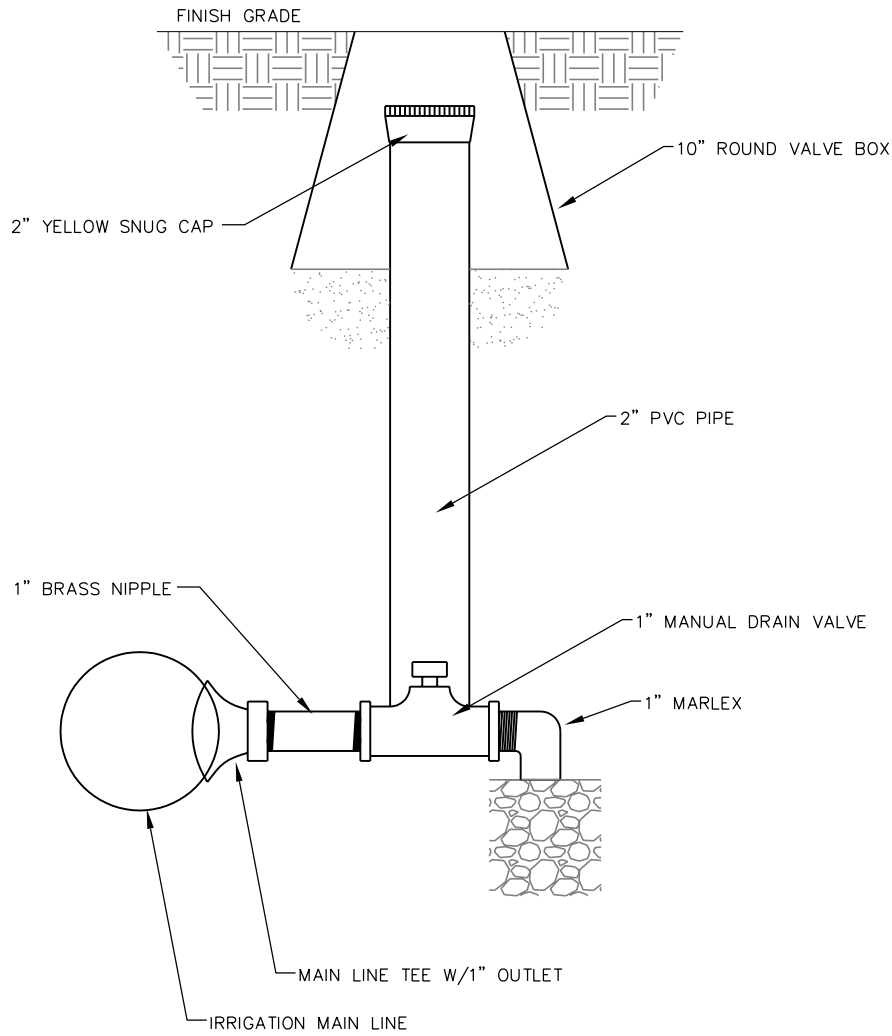
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STANDARD DETAILS**

**SARATOGA CITY**

**LS-6**



**SPRINKLER SYSTEM  
MANUAL DRAIN  
DETAIL**

DATE:  
SEPTEMBER 2005

DRAWING NAME:  
LS-7

DRAWN BY:  
JMC/DKB

CHECKED: APPROVED:

REVISIONS

REV	DATE	BY	COMMENTS



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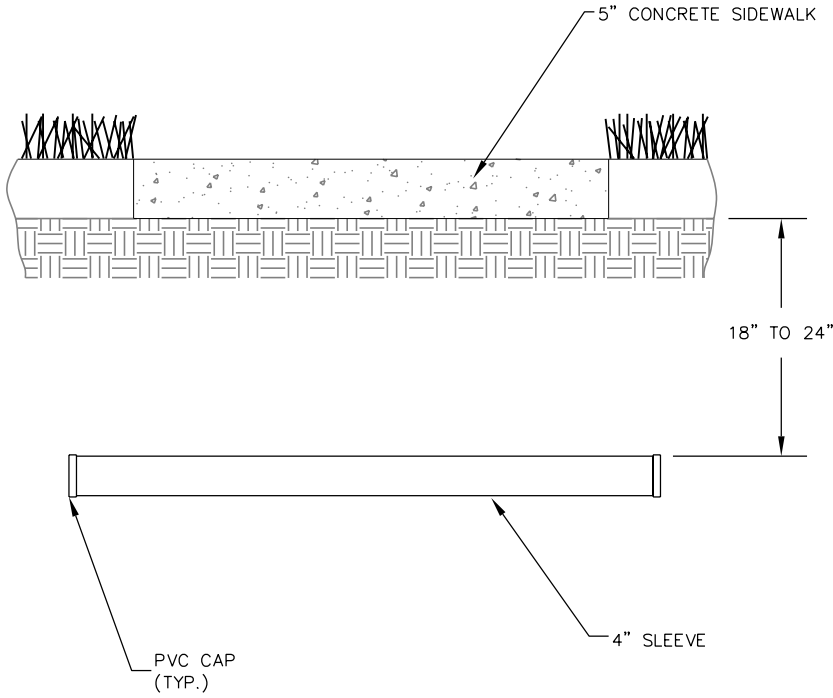
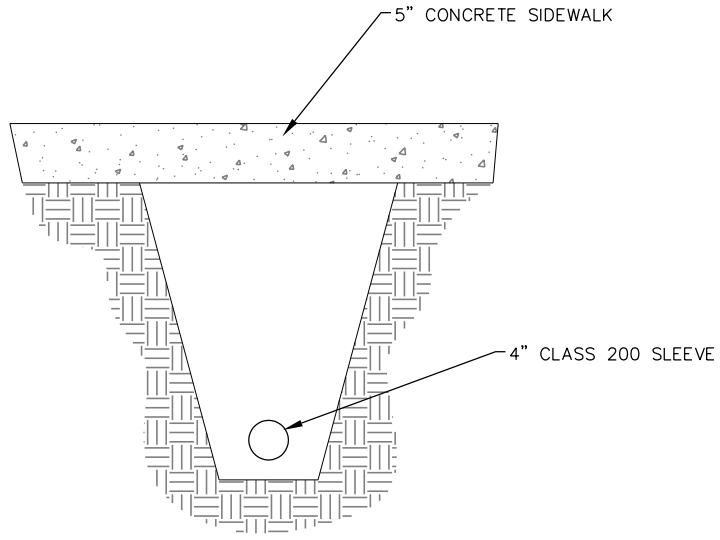


REV. A  
STANDARD DETAILS

SARATOGA CITY

**LS-7**

VALLEY STANDARD DETAIL SPRINKLER SLEEVING AND SCABINING LS-8 SLEEVING.dwg 1/12/2006 9:41:59 AM dwin




**NOTES:**

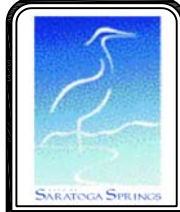
- 1. ONE WATER LINE PER SLEEVE.
- 2. ELECTRICITY AND WATER NOT TO SHARE SLEEVES.

**SPRINKLER SYSTEM  
SLEEVING  
DETAIL**

DATE: SEPTEMBER 2005	
DRAWING NAME: LS-8	
DRAWN BY: JMC/DKB	
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REV	DATE	BY	COMMENTS

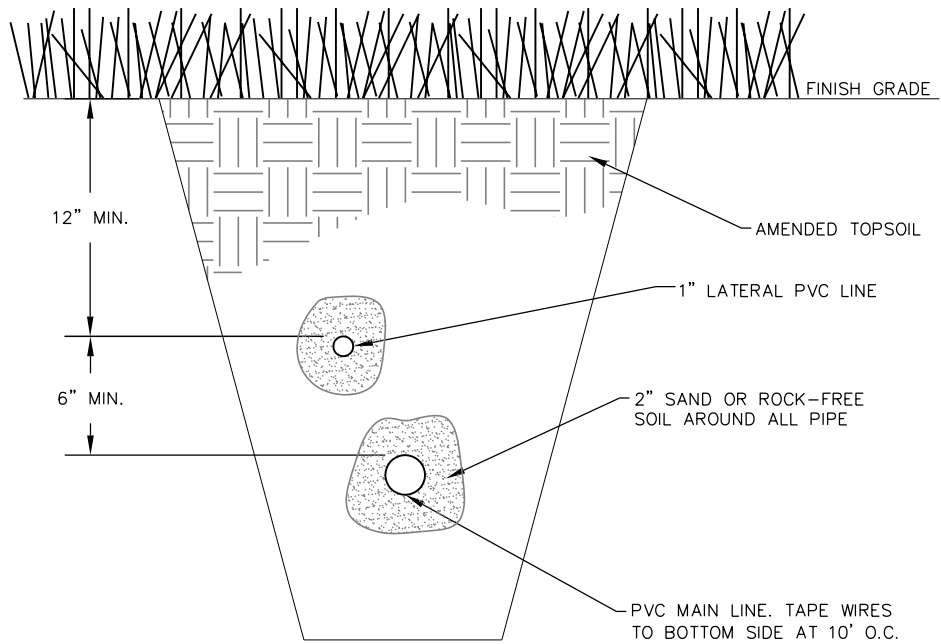

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**REV. B**  
STANDARD DETAILS

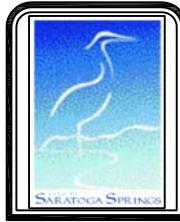
**SARATOGA CITY**

**LS-8**



**SPRINKLER SYSTEM  
PIPE/TRENCH  
DETAIL**

DATE: JANUARY 2005		REVISIONS			
DRAWING NAME: LS-9		REV	DATE	BY	COMMENTS
DRAWN BY: JMC/DKB					
CHECKED:	APPROVED:	 <b>GILSON</b> ENGINEERING, INC. CONSULTING ENGINEERS AND SURVEYORS 12401 South 450 East (801) 571-9414 • Fax: (801) 571-9449			

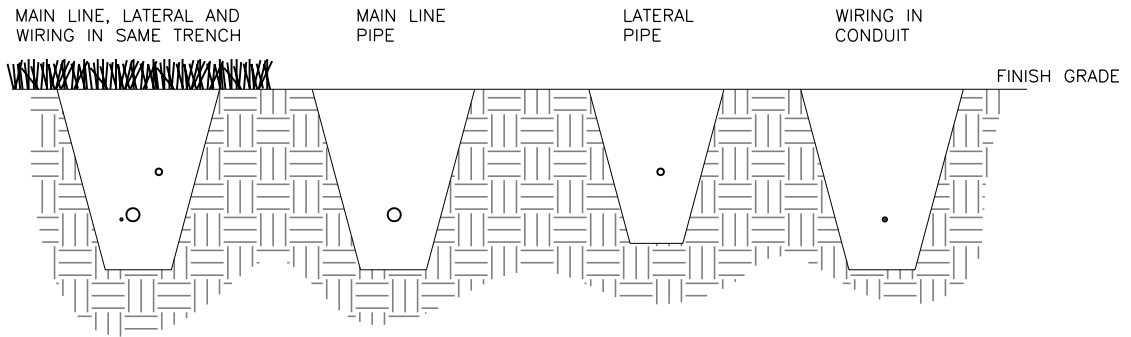


**REV. A  
STANDARD DETAILS**

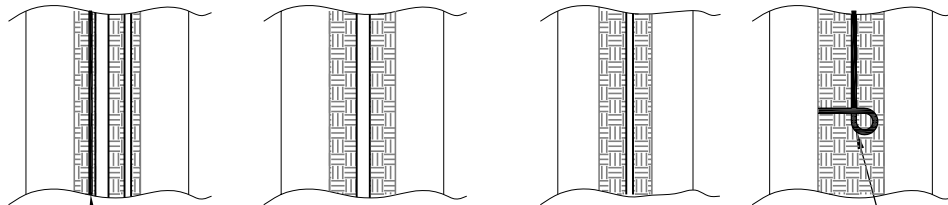
**SARATOGA CITY**

**LS-9**

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.

**PIPE AND WIRE  
TRENCH DETAIL**

DATE:  
**SEPTEMBER 2005**

DRAWING NAME:  
**LS-10**

DRAWN BY:  
**JMC/DKB**

CHECKED:

APPROVED:

REVISIONS

REV	DATE	BY	COMMENTS



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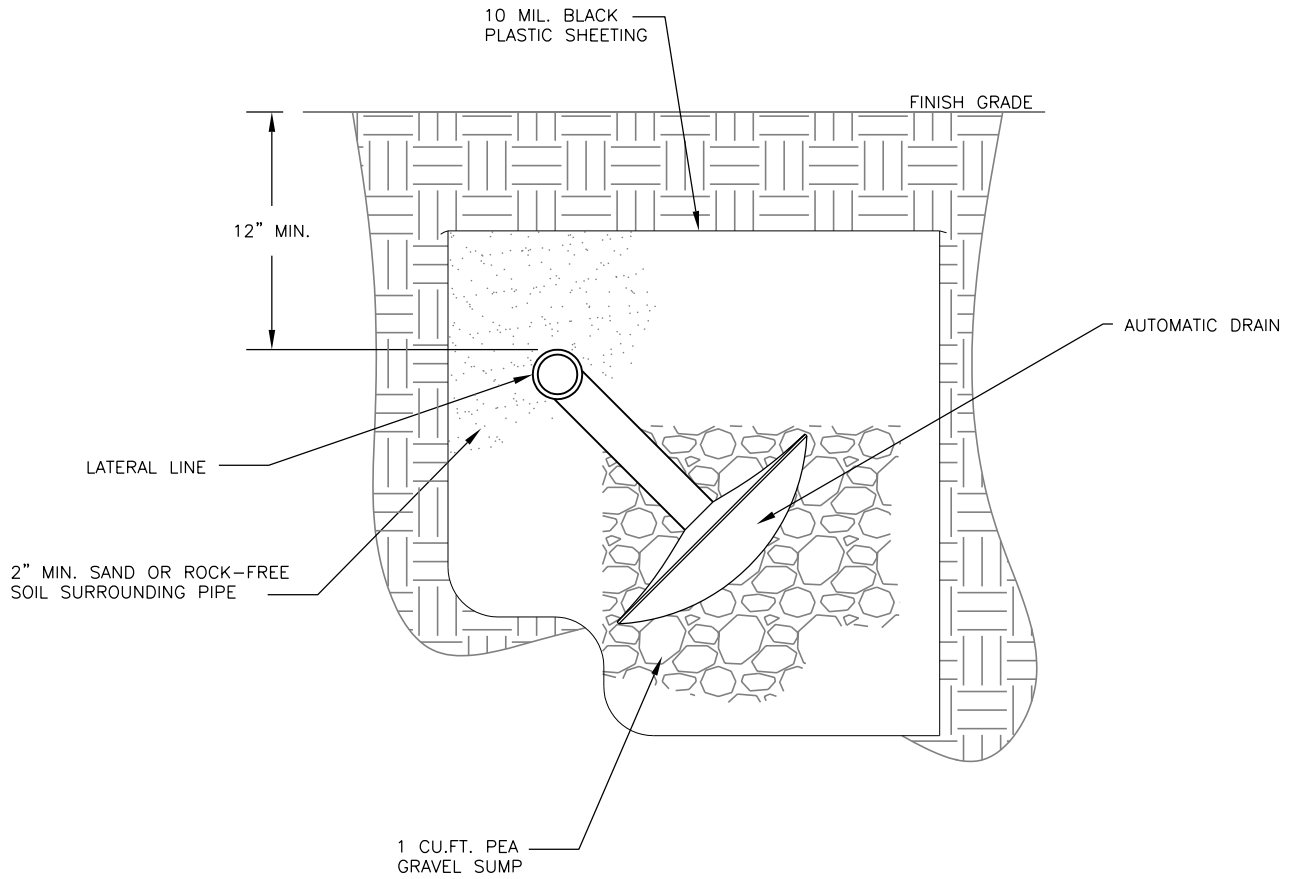


REV. A  
STANDARD DETAILS

SARATOGA CITY

**LS-10**

VALVE CITY STANDARD DETAIL (S:\Saratoga\_Section\AMPS\CAD\IN\LS-11 AUTOMATIC DRAIN.dwg - 11/19/2005 09:50 AM - cfwjw)



**NOTE:**

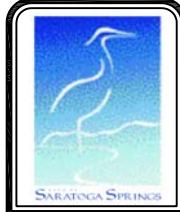
1. USE ONLY AT LOW POINTS OF LATERAL LINES. DO NOT USE IN VALVE BOXES.
2. DO NOT USE ON MAIN LINE

**AUTOMATIC DRAIN DETAIL**

DATE: SEPTEMBER 2005	
DRAWING NAME: LS-11	
DRAWN BY: JMC/DKB	
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REV	DATE	BY	COMMENTS

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**REV. B**  
STANDARD DETAILS

**SARATOGA CITY**

**LS-11**

**NOTES:**

1. INSTALLATION INCLUDES REMOVAL OF STAKES 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 OVEREXCAVATION)
5. GRANULAR FERTILIZER PLACE AFTER PLANT HOLE IS BACKFILLED. QUANTITY BASED ON TREE GROWERS RECOMMENDATIONS
6. INSTALLATION INCLUDES REMOVAL OF WATERING RING 1 YEAR AFTER INSTALLATION.

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

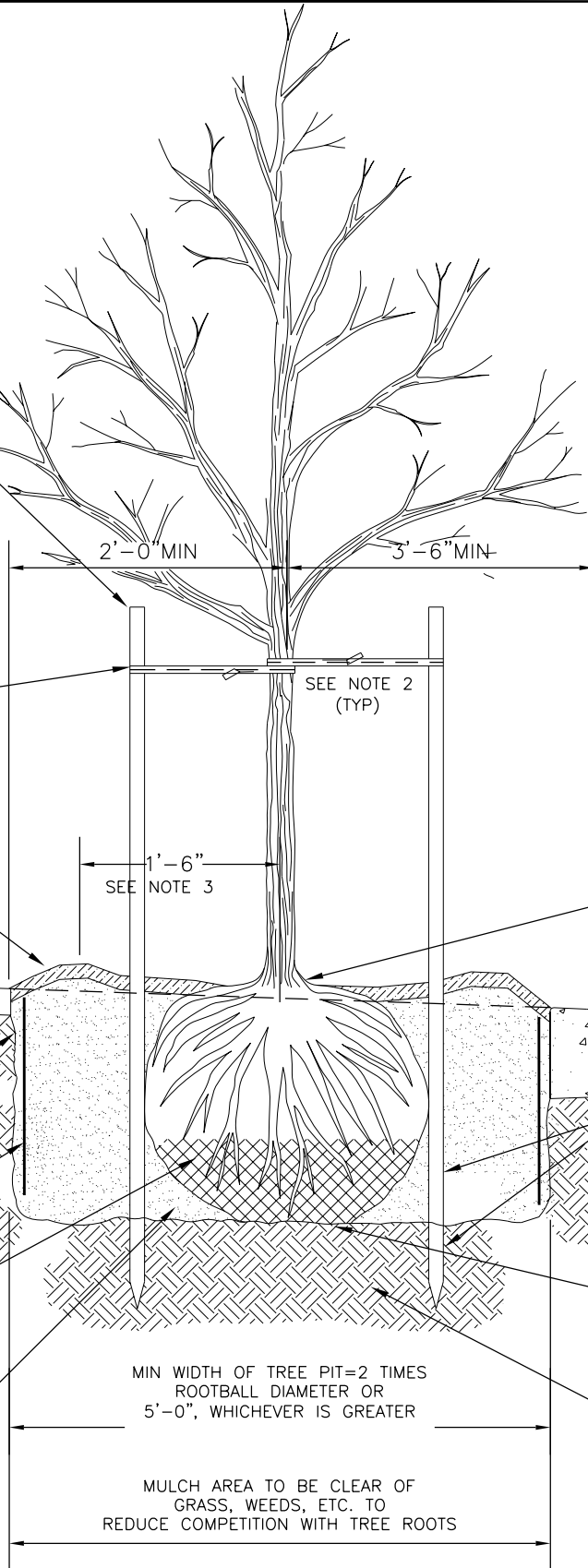
2"-3" MULCH DEPTH (TAPERED AT TRUNK)

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 2/3 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/  
PLANTING DETAIL**

DATE: SEPTEMBER 2005	
DRAWING NAME: LS-12	
DRAWN BY: JMC/DKB	
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REV	DATE	BY

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**REV. B**  
STANDARD DETAILS

**SARATOGA CITY**

**LS-12**

VALLEY CITY STANDARD DETAIL (SARATOGA CITY) (S-12) FROM REVISIONS 04/10/2016 0:25:13 AM drcw