STANDARD DRAWINGS



LAVERKIN CITY STANDARD DRAWINGS

TABLE OF CONTENTS

SECTION I

Standard Drawing	Drawing	Page
Typical 50' Right of Way Sections	I-A	1/2
Typical 60' Right of Way Sections	I-A	2/2
Typical Curb & Gutter Detail HB30-7	I-B	1/2
Typical Curb & Gutter Detail RU30	I-B	2/2
Typical Sidewalk Detail	I-C	1/2
Typical Sidewalk Detail	I-C	2/2
Typical Expansion Joint and Weakened Plane Joint Detail	I-D	1/1
Typical Sign Details	I-E	1/1
Typical Valley Gutter Details	I-F	1/1
Typical Catch Basin Details	I-G	1/4
Typical Catch Basin Details	I-G	2/4
Typical Catch Basin Details	I-G	3/4
Typical Catch Basin Details	I-G	4/4
General Pedestrian Access	I-H	1/1

SECTION II

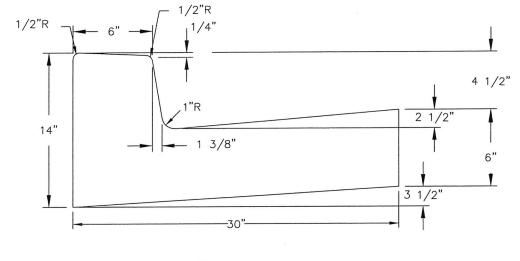
Standard Drawing	Drawing	Page
Typical Culinary Water Trench Detail	II-A	1/1
Typical Irrigation – Waterline Separation Detail	II-B	1/2
Typical Irrigation – Waterline Separation Detail	II-B	2/2
Typical Water and Storm Drain Crossing	II-C	1/1
Typical Thrust Restraint Detail	II-D	1/2
Megalug Thrust Restraint Requirements	II-D	2/2
Typical Main Line Valve and Pad Installation	II-E	1/1
Typical Fire Hydrant Installation Detail	II-F	1/1
Water & Irrigation Service Connection & Meter	II-G	1/2
Service Connection & Meter	II-G	2/2
1-Inch Irrigation Service Connection & Meter	II-H	1/1
Construction Entrance Detail	II-I	1/1
Standard Pressure Reducing Valve	II-J	1/1

SECTION III

Standard Drawing	Drawing	Page
Typical Lot Grading Detail	III-A	1/1
Typical Line Utility Location and Joint Utilities Trench Detail	III-B	1/1
Typical Class I & II Standard Monument Details	III-C	1/1
Typical Light Pole Details	III-D	1/5
Typical Light Pole Details	III-D	2/5
Typical Light Pole Details	III-D	3/5
Alt. Light Pole Details	III-D	4/5
Alt. Light Pole Details	III-D	5/5
Alt. Light Pole Details	III-E	1A/5
Alt. Light Pole Details	III-E	2A/5
Alt. Light Pole Details	III-E	3A/5
Alt. Light Pole Details	III-E	4A/5
Alt. Light Pole Arm & Fixture Details	III-E	5A/5

S:\sdskproj\LaVerkin Details Revised\50R0W.dwg, Model. 5/24/2006 3:39:23

S.\sdsknroi\laVerkin Details Revised\60180W.dwg. Model. 5/21/2006 3:11:53 PM



HB30 - 7

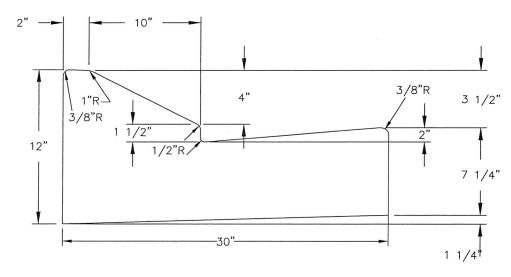
NOTES:

- UNTREATED BASE COURSE (3/4" MINUS) SHALL BE PLACED UNDER CURB WITH A THICKNESS OF NOT LESS THAN 6" AND COMPACTED TO 95% MINIMUM DENSITY.
- 2. FINAL ASPHALT PAVEMENT SURFACE TO BE 1/2" MAX. ABOVE LIP OF GUTTER.
- 3. WEAKENED PLANE JOINTS TO BE PLACED AT 10' MAX. INTERVALS.
- 4. EXPANSION JOINTS TO BE PLACED AT 30' MAX. INTERVALS.

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

TYPICAL CURB & GUTTER DETAIL HB30-7

I-B



RU30

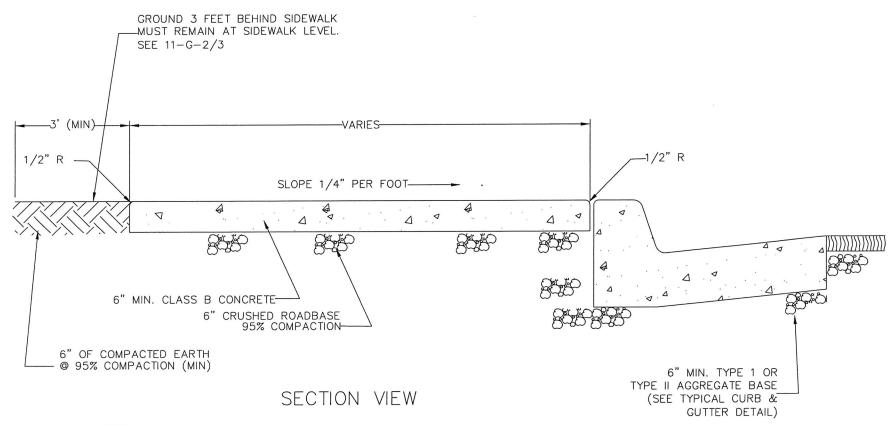
NOTES:

- 1. UNTREATED BASE COURSE (3/4" MINUS) SHALL BE PLACED UNDER CURB WITH A THICKNESS OF NOT LESS THAN 6" AND COMPACTED TO 95% MINIMUM DENSITY.
- 2. FINAL ASPHALT PAVEMENT SURFACE TO BE 1/2" MAX. ABOVE LIP OF GUTTER.
- 3. WEAKENED PLANE JOINTS TO BE PLACED AT 10' MAX. INTERVALS.
- 4. EXPANSION JOINTS TO BE PLACED AT 30' MAX. INTERVALS.

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

TYPICAL CURB & GUTTER DETAIL RU30

1-B



NOTES:

1. ON CURB RETURNS A $1/2^{\circ}$ EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.

- 2. SEE CURB & SIDEWALK JOINT DETAILS.
- 3. LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

TYPICAL SIDEWALK DETAIL

1/2

I-C

-1/2" EXPANSION JOINT AT 20'
INTERVALS, AT COLD JOINTS AND AT
BEGINNING AND END OF RETURN.
EXPANSION JOINTS TO MATCH
LOCATION OF CURB AND GUTTER
EXPANSION JOINT.

PLAN VIEW

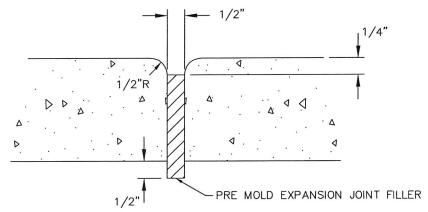
NOTES:

- 1. ON CURB RETURNS A $1/2^{\circ}$ EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.
- 2. SEE CURB & SIDEWALK JOINT DETAILS.
- 3. LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.
- 4. FELT EXPANSION REQUIRED ON EACH END OF SIDEWALK REPLACEMENT.

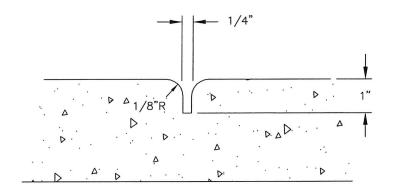
CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

TYPICAL SIDEWALK DETAIL

LA VERKIN REVISED/CRBSD.DWG (REV. 5/02/06)



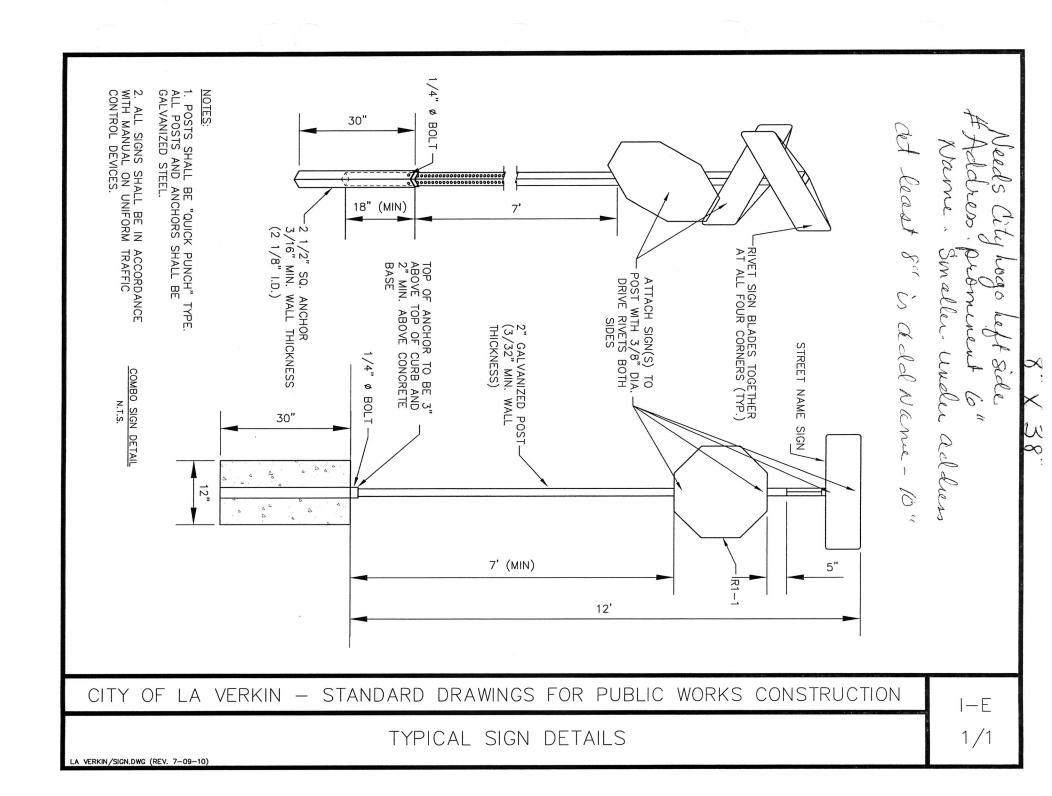
CURB & SIDEWALK EXPANSION JOINT DETAIL

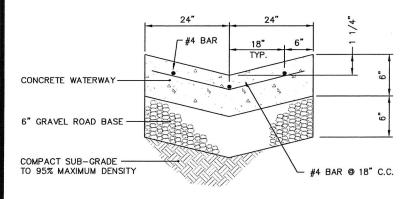


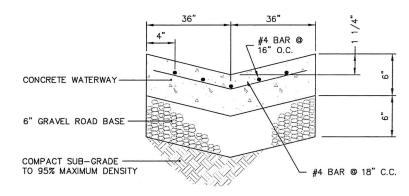
CURB & SIDEWALK WEAKENED PLANE JOINT DETAIL

SEE CURB, GUTTER, & SIDEWALK DETAILS FOR SPACING

CITY OF LA VERKIN —	STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION	I-D
I A VEDVIN /CODSIDWING (PEV 6/11/03)	TYPICAL EXPANSION JOINT AND WEAKENED PLANE JOINT DETAIL	1/1







4' VALLEY GUTTER DETAIL

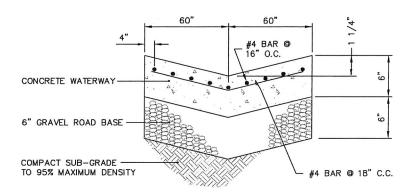
N.T.S

6' VALLEY GUTTER DETAIL

N.T.

NOTES:

- A 6' WATERWAY IS REQUIRED AT ALL STOP INTERSECTIONS WHERE STORMWATER IS INTENDED TO CROSS THE ROADWAY.
- 2. A 10' WATERWAY IS REQUIRED WHERE THROUGH TRAFFIC IS ALLOWED AND WHERE STORMWATER IS INTENDED TO CROSS THE ROADWAY.

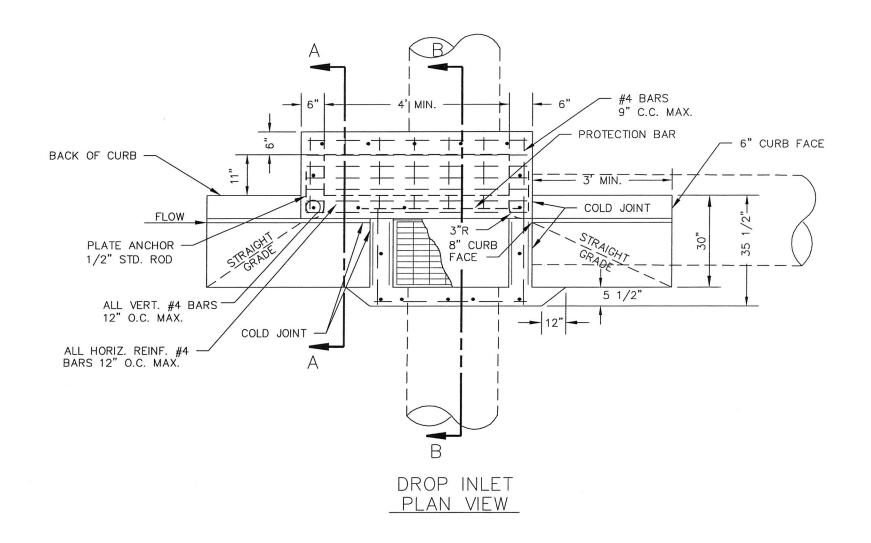


10' VALLEY GUTTER DETAIL

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

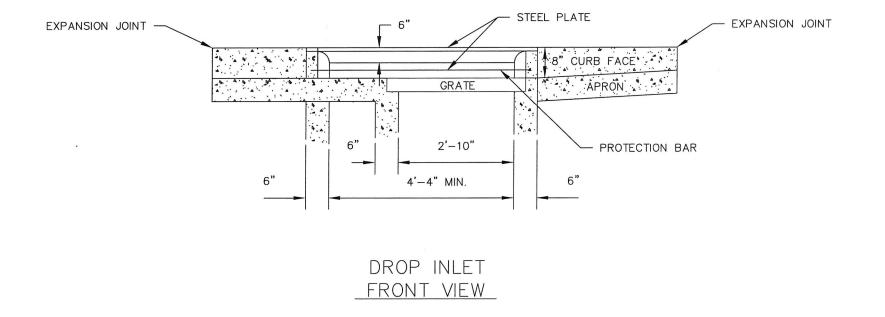
TYPICAL VALLEY GUTTER DETAILS

|--

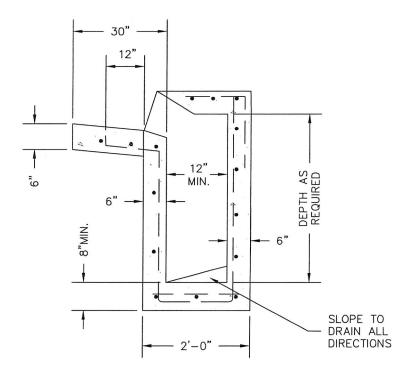


TYPICAL CATCH BASIN DETAILS

1-G



TYPICAL CATCH BASIN DETAILS

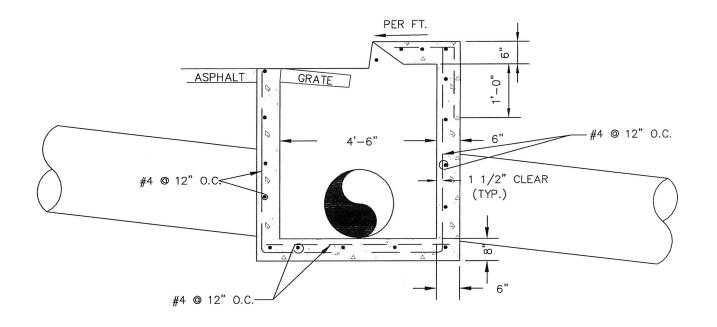


SECTION A-A

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

TYPICAL CATCH BASIN DETAILS

1-G



SECTION B-B

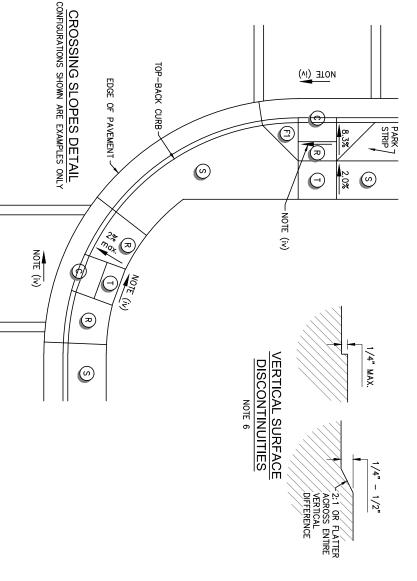
CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

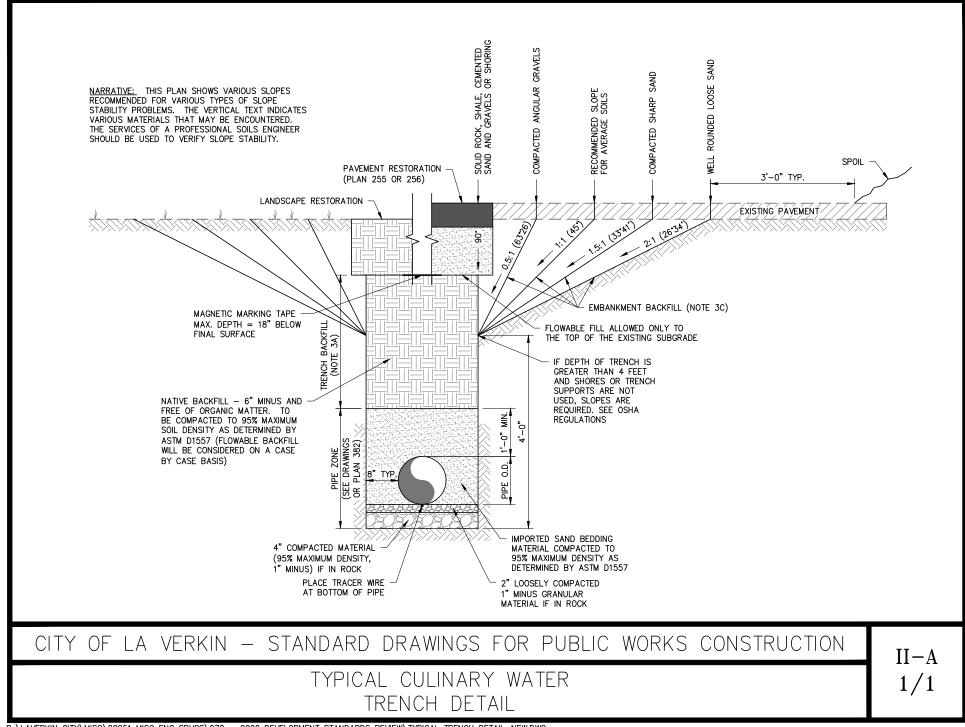
TYPICAL CATCH BASIN DETAILS

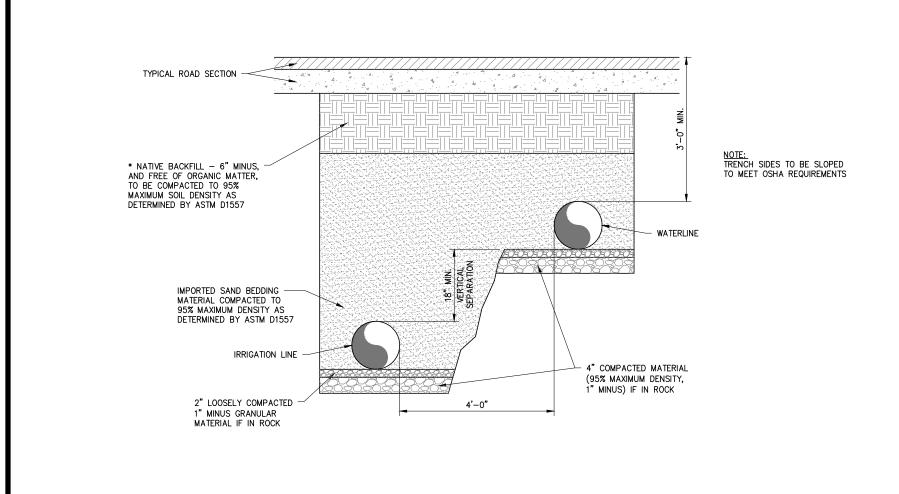
I-G 4/4

		(O)	R		(S)			
		\bigcirc		\cup	\mathbf{C}			
CROSSWALK	AT-GRADE ACCESS	CLEAR SPACE	RAMP	TURNING SPACE	SIDEWALK	ITEM	DIMENSION REFER	
5.0%	(SEE DEFINITION)	5.0%	8.3%	2.0%	RD GRADE (IN ROW) 5.0% (OUT OF ROW)	MAX. RUNNING SLOPE	RENCE TABLE (PROW)	
2.0% (vii), (v)	2.0% (vii), (v)	2.0% (vii), (v)	2.0% (vii), (v)	2.0% (vii), (v)	2.0%	MAX. CROSS SLOPE	AG R302-R305	
10' wide	4' wide	4'×4'	4' wide (vii)	4'x4' (ii), (vii)	4' wide (i)	MIN. DIMENSIONS)	
		(SEE DEFINITION) 5.0%	5.0% (SEE DEFINITION) 5.0%	RAMP 8.3% CLEAR SPACE 5.0% AT-GRADE ACCESS (SEE DEFINITION) CROSSWALK 5.0%	TURNING SPACE 2.0% RAMP 8.3% CLEAR SPACE 5.0% AT-GRADE ACCESS (SEE DEFINITION) CROSSWALK 5.0%	SIDEWALK RD GRADE (IN ROW) TURNING SPACE 2.0% RAMP 8.3% CLEAR SPACE 5.0% AT-GRADE ACCESS (SEE DEFINITION) CROSSWALK 5.0%	ITEM MAX. RUNNING SLOPE SIDEWALK RD GRADE (IN ROW) 5.0% (OUT OF ROW) TURNING SPACE 2.0% RAMP 8.3% CLEAR SPACE 5.0% AT-GRADE ACCESS (SEE DEFINITION) CROSSWALK 5.0%	DIMENSION REFERENCE TABLE (PROW ITEM SIOPE SIDEWALK SIDEWALK TURNING SPACE RAMP AT-GRADE ACCESS CROSSWALK SIOPE MAX. RUNNING SIOPE AX. RUNNING AX. R

- Ξ SIDEWALK WIDTH IS EXCLUSIVE OF THE WIDTH OF THE CURB. PROVIDE 5'x5' PASSING SPACES AT 200' MAX. INTERVALS WHERE SIDEWALK WIDTH IS LESS THAN 5' (PROWAG R302.3 - R302.4). DRIVEWAYS OR OTHER PAVED SURFACES MAY BE USED AS A PASSING SPACE WHERE A MINIMUM 5' WIDE AREA MEETING SIDEWALK REQUIREMENTS IS PROVIDED.
- € USE A 5' MIN. DEPTH IN THE DIRECTION OF THE RAMP RUN FOR PERPENDICULAR RAMPS WHERE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK (PROWAG R304.2.1). USE A 5' MIN. WIDTH IN THE DIRECTION OF THE STREET CROSSING FOR PARALLEL RAMPS WHERE TURNING SPACE IS CONSTRAINED BY ANY VERTICAL DIFFERENCE GREATER THAN 3.0 INCHES.
- (iii) LENGTH OF 8.3% MAX. RUNNING SLOPE IS NOT REQUIRED TO EXCEED 15'. STEEPEN GRADE TO MATCH EXISTING WITHIN AT LEAST 15' OR THE NEXT NEAREST JOINT IF THE MAX. RUNNING SLOPE CAN NOT BE MET IN 15' (PROWAG R304.2.2, R304.3.2).
- (iv) DO NOT EXCEED 2.0% CROSS SLOPE FOR CROSSINGS WHERE THERE IS STOP OR YIELD SIGN. DO NOT EXCEED 5.0% CROSS SLOPE FOR CROSSINGS WHERE THERE IS NO STOP OR YIELD SIGN OR WHERE THERE IS A TRAFFIC SIGNAL DESIGNED FOR A GREEN PHASE (PROWAG R302.6).
- (iii) MATCH THE HIGHWAY GRADE AT MIDBLOCK CROSSINGS (PROWAG R302.6.2)
- (vi) FLATTEN GUTTER SLOPE TO 5.0% MAX. AND MAINTAIN CLEAR SPACE RUNNING SLOPE ACROSS ENTIRE CURB CUT. (PROWAG R304.5.4). SEE STD. DWG. PA 3, DETAIL A).
- (vii) MEASURE FLARE SLOPE PARALLEL TO CURB LINE. FLARES NOT IN THE SIDEWALK ARE PERMITTED TO BE A VERTICAL CURB FACE WHEN ACCESS FROM PLOWS IS NOT EXPECTED.
- (viii)MATCH TURNING SPACE, RAMP, AND AT-GRADE ACCESS WIDTH TO CURB CUT AT PROJECTED BACK OF CURB.
- (ix) THE CLEAR SPACE IS A SPACE BEYOND THE BOTOM GRADE BREAK OF THE RAMP, PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE (PROWAG R304.5.5).
- (x) NOT WITHSTANDING THE EXHIBITS AND REFERENCES GIVEN IN THIS DETAIL, THE CURRENT GUIDELINES PROMULGATED BY THE UNITED STATES ACCESS BOARD KNOWN AS THE ADA ACCESSIBILITY GUIDELINES (ADAAG) AND THE ENFORCABLE STANDARDS SET BY THE UNITED STATES DEPARTMENT OF JUSTICE (DOJ) AND DEPARTMENT OF TRANSPORTATION (DOT) SHALL GOVERN.

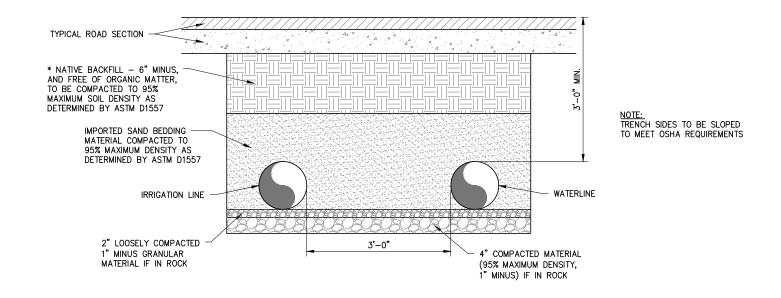






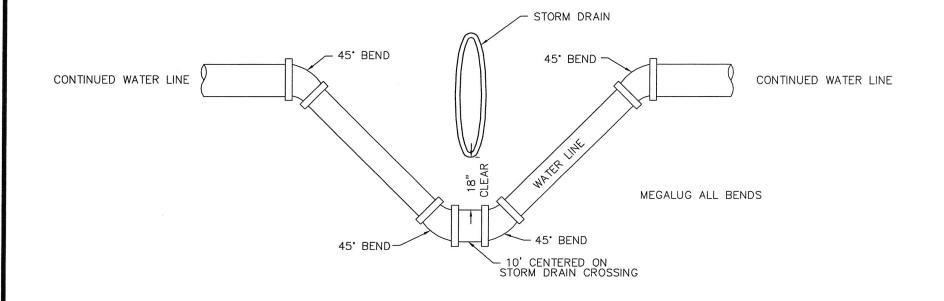
TYPICAL IRRIGATION — WATERLINE SEPARATION DETAIL

II-B



TYPICAL IRRIGATION — WATERLINE SEPARATION DETAIL

II-B

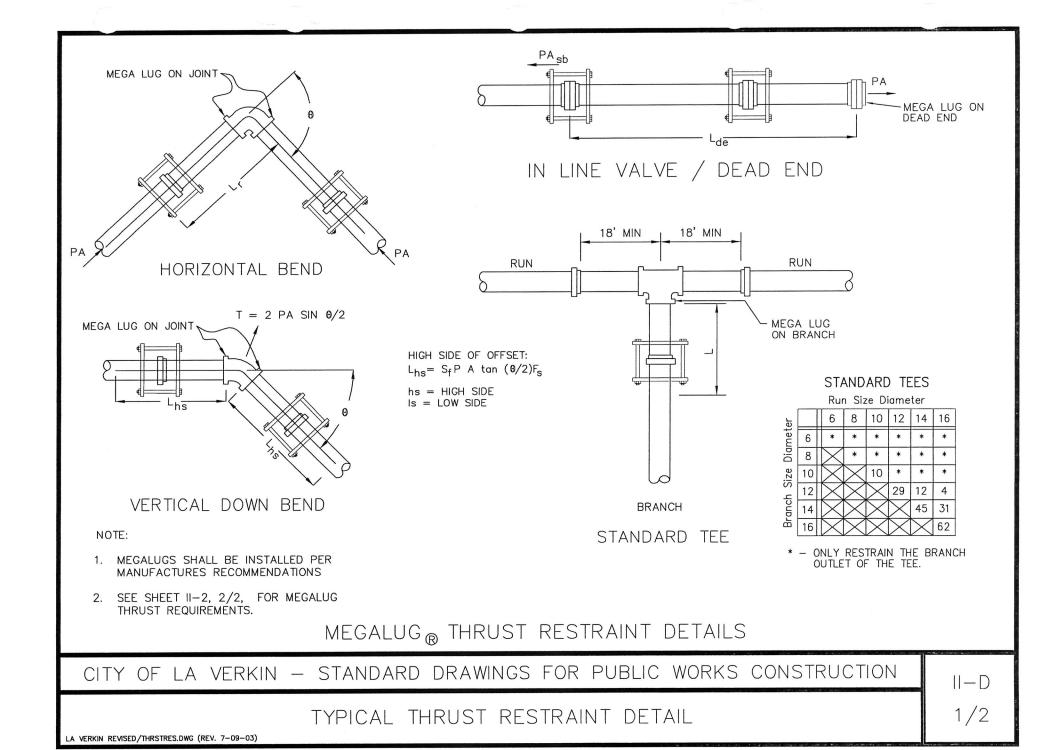


NOTES:

1. SEE SHEET II-D, 2/2, FOR THRUST RESTRAINT REQUIREMENTS.

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

TYPICAL WATER AND STORM DRAIN CROSSING



THRUST F	RESTRAINT F	REQUIREMEN	TS FOR 6"	PVC PIPE
Horizontal Bend Angle	Restrained Length (ft.)	Vertical Bend Angle	Restrained Length on High Side (ft.)*	Restrained Length on Low Side (ft.)*
11.25	3	11.25	8	2
22.5	6	22.5	16	4
45	12	45	33	99
90	28			

THR	UST	RESTRAINT I	REQUIREMEN	TS FOR 8"	PVC PIPE
Horizontal	Bend Angl	Restrained Length (ft.)	Vertical Bend Angle	Restrained Length on High Side (ft.)*	Restrained Length on Low Side (ft.)*
11.	25	4	11.25	10	3
22	2.5	7	22.5	21	6
4	5	15	45	44	12
9	0	37			

DESIGN DATA:

Test Pressure = 200 psi Soil Type = Sandy Clay Burial = 3 feet Trench Type = #3

THRUST RESTRA IN LINE VALVE/D							
Pipe Size (in.)	4	6	8	10	12	14	16
Pipe Size (in.) Restrained Length "L" (ft.)	44	62	82	99	118	135	153

THRUST F	RESTRAINT R	EQUIREMEN ⁻	TS FOR 10"	PVC PIPE
Horizontal Bend Angle	Restrained Length (ft.)	Vertical Bend Angle	Restrained Length on High Side (ft.)*	Restrained Length on Low Side (ft.)*
11.25	4	11.25	13	3
22.5	9	22.5	25	7
45	18	45	53	15
90	44			

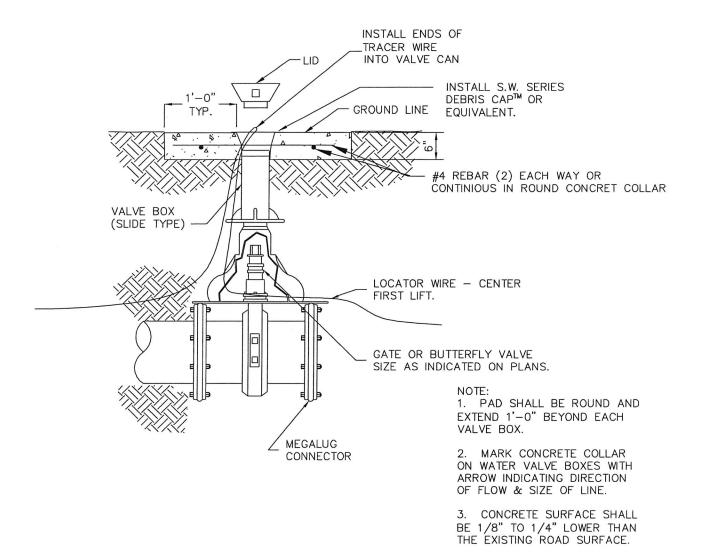
THRUST R	ESTRAINT R	EQUIREMEN	TS FOR 12"	PVC PIPE
Horizontal Bend Angle	Restrained Length (ft.)	Vertical Bend Angle	Restrained Length on High Side (ft.)*	Restrained Length on Low Side (ft.)*
11.25	5	11.25	15	4
22.5	10	22.5	30	8
45	21	45	63	17
90	52			

NOTES:

- *1. VERTICAL BEND ANGLE RESTRAINED LENGTHS BASED ON 3 FEET OF COVER ON HIGH SIDE AND 6 FEET OF COVER ON LOW SIDE.
- DEFLECTION ANGLES FOR CLASS 51 DUCTILE IRON PIPE LESS THAN 11.25 (AS SHOWN ON THE PLANS) SHALL BE ACCOMPLISHED BY DEFLECTING PIPE JOINTS A MAXIMUM OF 19 INCHES FOR EACH 18 FT. LENGTH OF PIPE. THE CURVATURE RADIUS SHALL BE NO LESS THAN 212 FT.
- 3. DEAD ENDS AND VALVES TO BE RESTRAINED FOR 62 FEET.
- 4. ALL FITTINGS, VALVES, BENDS, ETC. ARE TO HAVE JOINT RESTRAINTS AS REQUIRED BY CITY STANDARDS. THRUST BLOCKS MAY ONLY BE USED WHERE SPECIFICALLY NOTED ON PLANS.

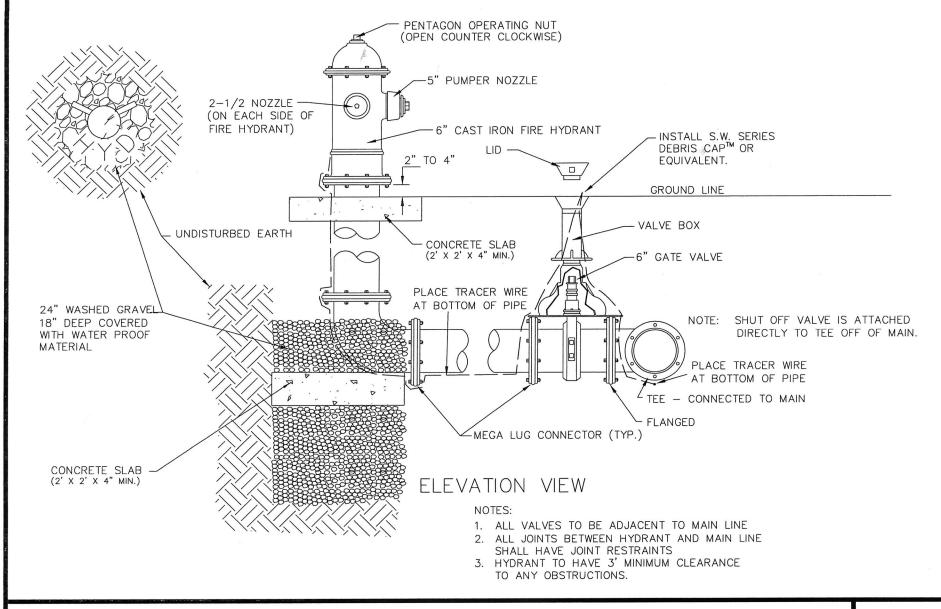
CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

II-D



TYPICAL MAIN LINE VALVE AND PAD INSTALLATION

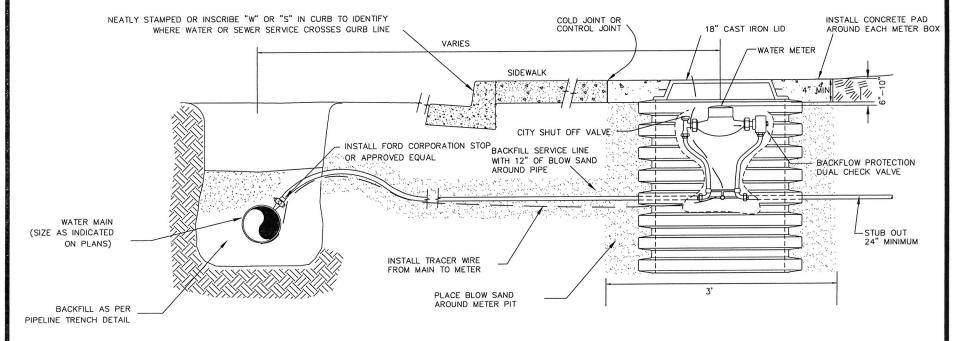
II-E



TYPICAL FIRE HYDRANT INSTALLATION DETAIL

II-F

VERKIN REVISED/FHYDINST.DWG (REV. 5/02/06)



NOTE:

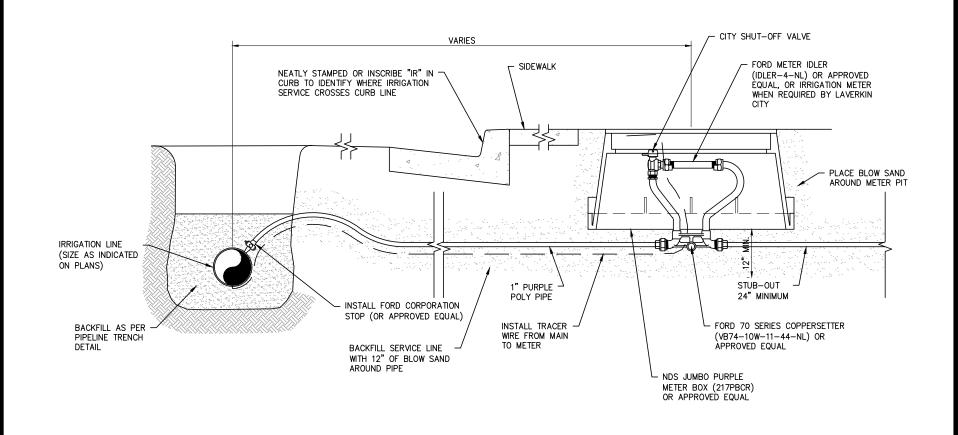
METER BOX SHALL CONSIST OF 18" CAST IRON RING & LID ON 30" DEEP X 18" DIA. ROUND HANCOR HI—Q® PIPE OR EQUIVALENT.
IN DRIVEWAYS METER BOX SHALL CONSIST OF 18" CAST IRON RING & LID ON 30"DEEP X 18" DIA. ROUND CONCRETE PIPE OR APPROVED EQUAIL.

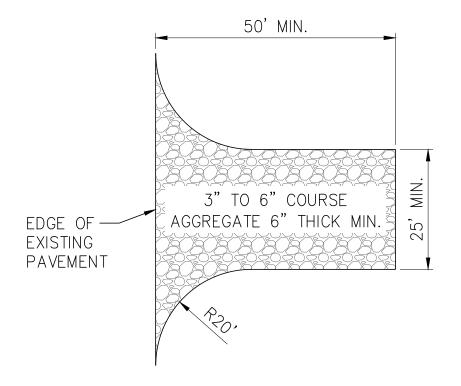
CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

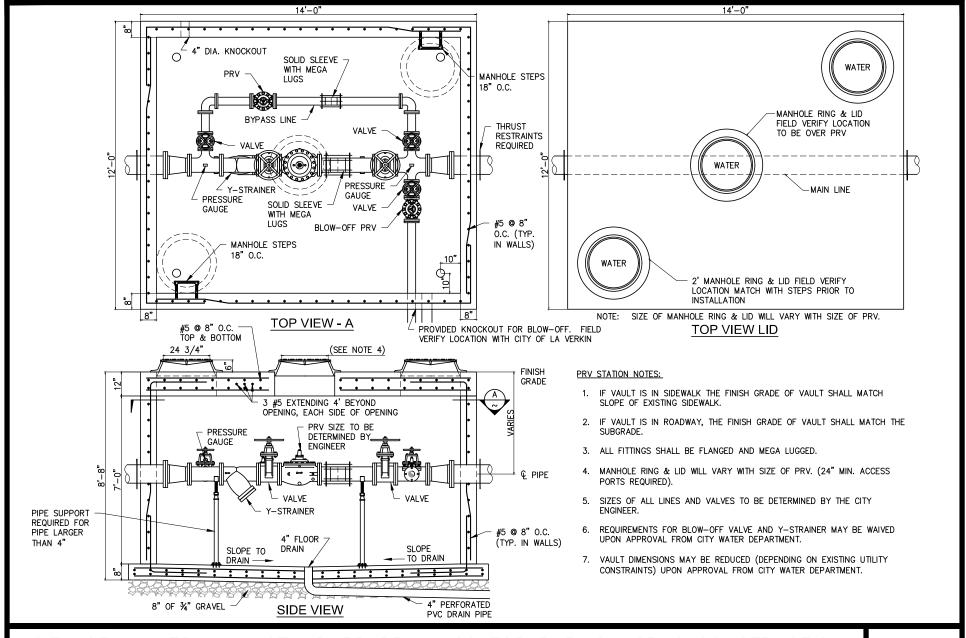
II-G

WATER & IRRIGATION SERVICE CONNECTION & METER

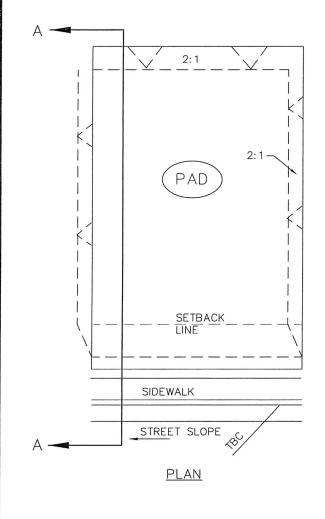
LA VERKIN REVISED/2WTRMT.DWG (REV. 5/03/06)

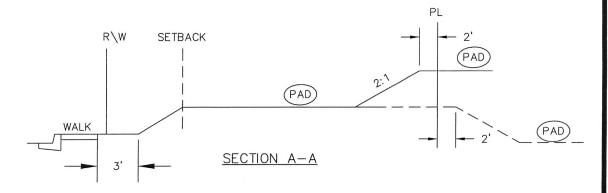






II-J 1/1





NOTE:

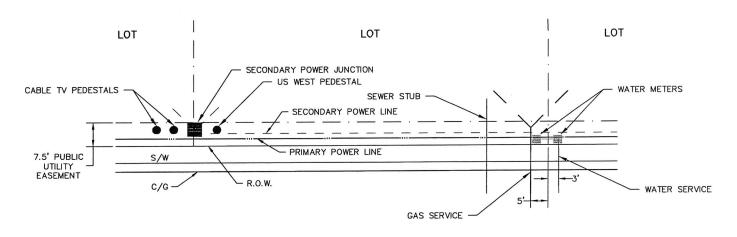
- 1. ALL LOTS SHALL BE DESIGNED AND GRADED IN A MANNER AND AT AN ELEVATION THAT WILL ALLOW RUNOFF FROM ANY POINT ON THE LOT TO FLOW TO THE STREET AT A MINIMUM SLOPE OF ONE PERCENT.
- 2. GROUND 3 FEET BEHIND SIDEWALK MUST REMAIN AT SIDEWALK LEVEL. SEE 1-C-1/2

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

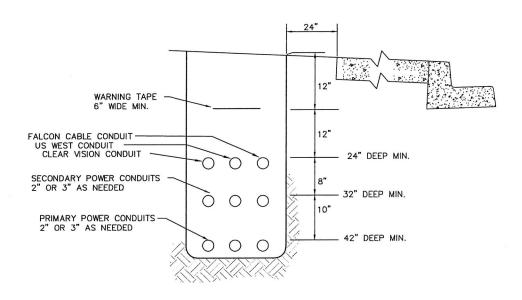
TYPICAL LOT GRADING DETAIL

III - A 1/1

LA VERKIN REVISED/SITEGRD.DWG (REV. 5/03/06)



TYPICAL LOT LINE UTILITY LOCATION

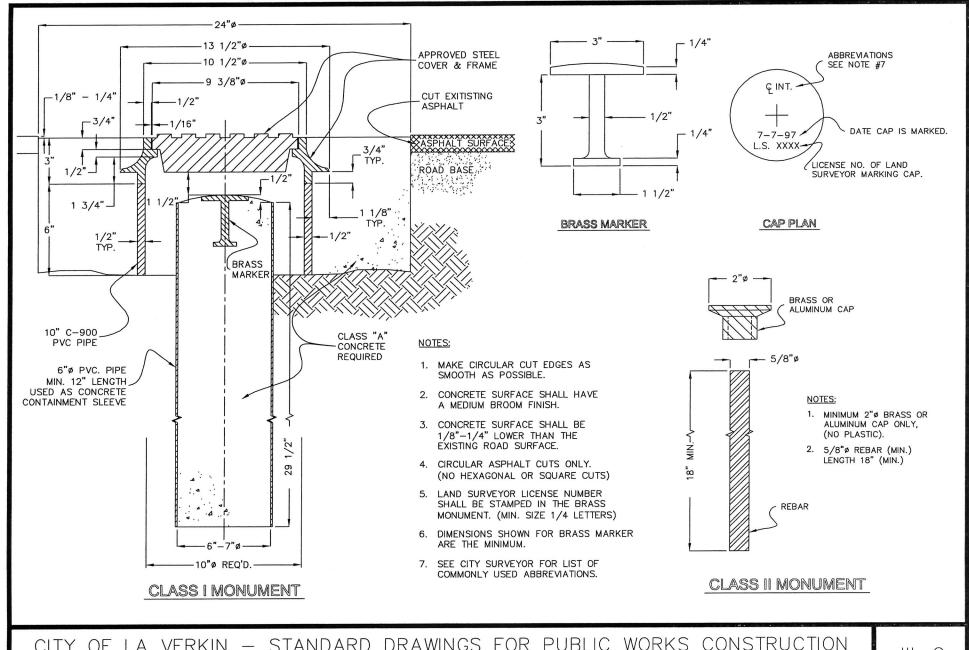


JOINT UTILITIES TRENCH DETAIL

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

III-B

TYPICAL LINE UTILITY LOCATION AND JOINT UTILITIES TRENCH DETAIL



TYPICAL CLASS I & II STANDARD MONUMENT DETAILS

Fiberglass, Direct-Buried Street Lighting Pole Assembly Underground Service

40'..... 35'.....D 30'.....C 30'.....A Mounting Height <u>Aluminum Mast Arm</u> RCMS Code: BA П Ü :...B 122 Code Code

Scope

whenever a fiberglass light pole is reauired in conjunction with a "cobra underground service exclusively. head" type luminaire, with required in This standard should be used conjunction with a

Finish

(color of pole)

Code

WORKS CONSTRUCTION

Standard References

001 Lighting Cable and Conductor — General Information 201 Cable, Street Lighting, Underground 511 Photoelectric Controls

Ŧ 001 Photoelectric Controls

Liahting Poles — General Information

141 Lighting Poles — General Lighting Pole Assembly Galvanized Steel Overhead Service

402 Luminaire — Horizontal Lighting, LED, Street Light Luminaires

Notes

Burial depth should be 10% of the pole length plus 2 feet.

Table 1 Component Assemblies

<u>Z</u>0. <u>S</u> <u>Z</u>0. Description

1008032 1008036 direct—buried, for use with "cobra head" type fixture smooth gray finish, with 8 foot aluminum cantilever mast arm, 40 foot overall length. For use on mast arm, 30 foot overall length. For use on local streets per City of LaVerkin Construction Standards. direct—buried, for use with "cobra head" type fixture smooth gray finish, with 8 foot aluminum cantilever mast arm, 30 foot overall length. For use on local mast arm, 40 foot overall length. For use on collector streets per City of LaVerkin Construction 35 foot, mounting height fiberglass streetlight pole, Standards. 25 foot, mounting height fiberglass streetlight pole "cobra head" type fixture, "cobra head" type fixture

STANDARD

Fiberglass, Direct-Buried Underground Service Street Lighting Assembly Pole

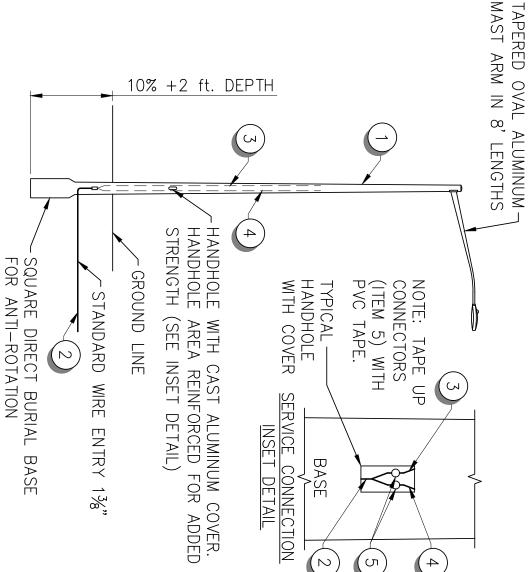
Page FP 122 of

OF

LA VERKIN -

III-D 1/5

DRAWINGS FOR PUBLIC



Fiberglass, Direct-Buried Underground Service

Street Lighting Pole

FIGURE 1

Assembly

III-D

III-D 3/5

Horizontal Lighting

Scope

metal, or fiberglass poles. from 120V to 277V. type street light luminaires This standard provides information on light-emitting diode (LED) with a photo cell for mounting on wood These units are rated to accept voltage

Notes

- 50W and 135W LED luminaires.
- All luminaries are to be self activating, utilizing photoelectric control.
- In residential areas, preclude light intrusion into homes. consideration shall be given to light pattern adjustment
- Night sky protection is provided by the luminaire design which prevents light above the horizontal plane of the fixture.

Ò

light appears. 3,000 K LEDs have a slightly amber 4,000K LEDs. While the 4,000K option is preferred, Color temperature, measured in Kelvins (K), installed in environmentally sensitive areas refers to how "warm" or "cool" color relative to the 3,000 K LEDs may be

PUBLIC

Table 1 -List of Materials

Z 0. 8002150 8002148 S No Luminaire, LED, 135W, 4,000K, 120-277V, Type 3, Luminaire, LED, 50W, 4,000K, 120-277V, Type 2, PE Description <u>FIGURE</u> R Collector Streets Local Streets Application

STANDARD

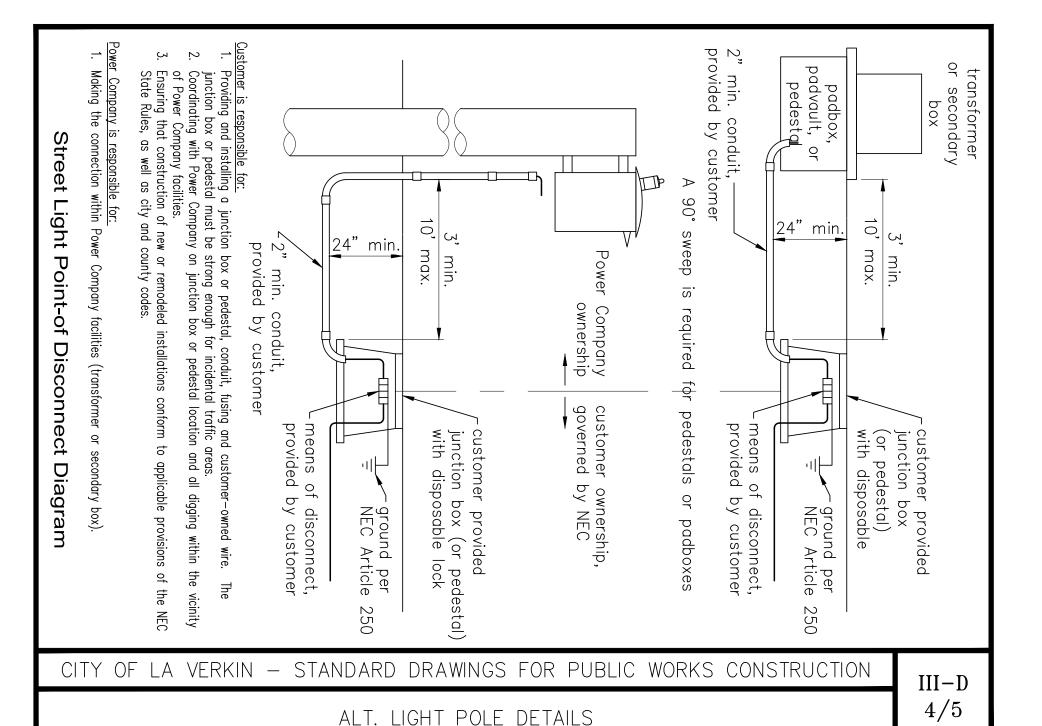
Luminaire - Horizontal Lighting

OF LA VERKIN -

WORKS CONSTRUCTION

TYPICAL LIGHT POLE DETAILS

DRAWINGS FOR



Underground Cable Street Lighting,

Scope

used This standard issues underground cables to supply street lighting luminaires.

RCMS Code: ВА

Str	eet Li	Street Lighting Cable	<u>Cable</u> <u>Code</u>
#6	AAC	duplex	#6 AAC duplex cableA
#4	AAC	single	#4 AAC single cableB
#2	AAC	single	#2 AAC single cable
#1/	0 AA	Csing	#1/0 AAC single cableD
#1C) USE	-RHH	#10 USE—RHH copper, single cableE
#8	USE-	RHH	#8 USE—RHH copper, single cableF

Standard References

FC 001 Lighting Cable and Conductor — General Information

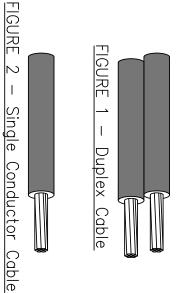
Notes

- This standard issues #6 AAC single—conductor cable foot. duplex cable by the duplex cable foot, not the
- Ŋ This standard issues #4 AAC and larger single—conductor cable by the foot.

Table 1 -

2 5 : NO. 4213013 <u>S</u> 1100050 1100048 4218103 4218004 4217907 Z_O #1/0 AAC single-conductor cable "Harvard" #4 AAC single-conductor cable "Mercer" #10 CU. USE-RHH single conductor cable #2 AAC single—conductor cable "Clemson" #6 AAC duplex cable "Claflin" Description #8 CU. USE—RHH single conductor cable

2 2 5



Cable, Underground Street Lighting,

> III-D 5/5

П \bigcirc

201

ALT. LIGHT POLE DETAILS

CITY OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

4 10"ø

Hot Dip Galvanized L—type Anchor Bolts (4 per Post)

2011-BW.

ANTIQUE Street Lamps
Rundberg In. * Austin, IX 78758 *ph(512) 977-8444*(ax(512) 977-9622

7"ø

6.25"x5.5"
Door Opening for
Anchorage and
Wiring Access

Opening

7" Dia. Bolt Circle

Door

5" Dia.

Opening

HARTFORD SERIES

Cast Aluminum Posts

SHAFT TYPES S4 smooth S5 smooth

Options

Black
Dark Bronze
Dark Green
Verde Green
Prime Painted
Custom Match
Custom Select
RAL colors

Recepticles
Banner Arms
Flagpole Holders
Custom Lagos
Signage
(see Signage & Accessories
section in the catalog or contact Antique Street Lamps)

OF LA VERKIN -STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

S

ALT. LIGHT POLE DETAILS

111-6 1A/5

LA VERKIN REVISED/LIGHT POLE.DWG (REVISED 12-8-04)

5"-3" tapered 15 HARTFORD 10" base Post, Cast Aluminum Extruded Shaft PX H10 NOTES: 1. for finish specifications and color options, see Finish section in catalog or intact Antique Street Lamps. 2. 16' height not available for 34,F4, or 14 (any 4"s) Shaft Type. Post Series S5 F4 F5 T5 Smooth 4"ø Smooth 5"ø Fluted 4"ø Fluted 5"ø Topered 4"-3"ø Topered 5"-3"ø

F4 4" Fluted

Ų.

F5 Fluted

4"-3"

tapered

3" O.D.X3" High Tenon

ANCHORAGE GUIDE

POST

HEIGHT

ORDERING INFORMATION

Choose the boldisce catalog monenclature that best suits your needs and write it on the appropriate line

Example: PX H10 12 S5 ANBK Options

MATERIALS. The base shall be heavy wall, copper free, cost aduminum produced from certified ASTM 356.1 ingot per ASTM 8-179-95a and ASTM b26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a 16 temper. The topered shaft shall be extruded from aluminum, ASTM 6063 alloy, spun to a topered shape, then heat treated to a 16 temper. All hardware shall be tamper resistant stainless steel. Anchor botts to be completely hat-dip galvanized.

DESCRIPTION The lighting post shall be all aluminum, one-peice construction, with a 12-flute base design. The shaft shall be options from back page). The post shall be Antique Street Lamps' catalog SPECIFICATIONS

ptions from back page) 11 литber РХh10 <u>XX XX finish</u>

PX Ht0 12 S4 finish 4" dia. smooth shaft 8',10',12',14'

PX Ht0 12 S5 finish 5" dia. smooth shaft 10',12',14',16'

PX H10 12 F4 finish 4" dia. fluted shaft 8',10',12',14'

PX Ht0 12 F5 finish 5" dio. fluted shaft 10',12',14',16'

PX H10 12 T4 finish 4"-3" dia. tapered shaft 8',10',12',14' PX HIO 12 T5 finish 5"-3" dia. tapered shaft 10',12',14',16'

NSTALATION The post shall be provided with four, hot-dip galvanized L-type anchor bolts to be installed on a 7"diameter bolt circle. A dostall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door. <u>DESCRIPTION</u> The post shall be $\underline{X}^n - \underline{X}X^n$ in height with a 10" diameter base. The shaft diameter shall be \underline{X}^n (see back page) At the top of the post, an itegral 3" 0.0. x 3" tennon with a transitional donut shall be provided for luminaire mounting. D1.2—90. All welders shall be certified per Section 5 of ANSI/AWS d1.2—90.

For finish specifications and color options see "Finish" section in catalog

Rundberg Ln. * Austin,TX 78758 *ph(512) 977-8444*fax(512) 977-9622 ANTIQUE Street Lamps

2011-8W.

CONSTRUCTION The shaft shall be double welded to the base casting and shaped as one piece for maximum structural integrety. 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

LA VERKIN - STANDARD OF DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

ALT. LIGHT POLE DETAILS

LA VERKIN REVISED/LIGHT POLE.DWG (REVISED 12-8-04)

111-E

2A/5

Cast

Aluminum

Posts

extruded shafts

12'-0"

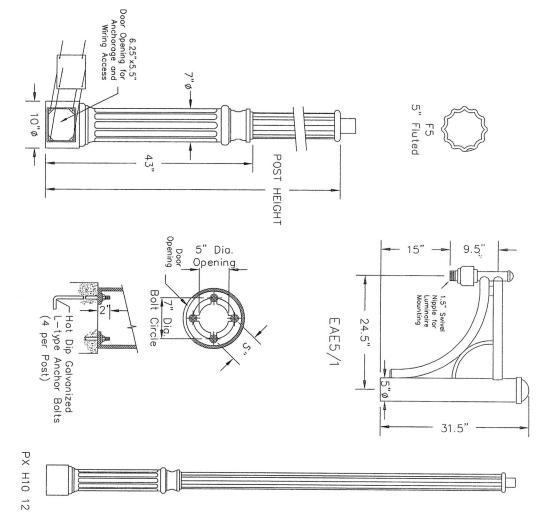
HARTFORD Series 10, dia. base

a Details Revised\Light pole.dwg. base. hot-dip ground smooth. stainless steel. MATERIALS CONSTRUCTION galvanized. The

design. aluminum, DESCRIPTION <u>DN</u> The lighting post shall be all one—piece construction 12—flute base

to a T6 temper. The tapered shaft shall be extruded from aluminum, ASTM 6063 alloy, spun to a tapered shape, then heat treated to a T6 temper. all hardware shall be tamper resistant copper free, cast aluminum produced from certified ASTM 356.1 ingot per ASTM 8-179-95a or ASTM 6061 alloy, heat treated The base shall be heavy wall, Anchor bolts to be completely

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 were the shaft exits the certified per Section 5 of ANSI/AWS D1.2-90 ANSI/AWS D1.2-90. all exposed welds below 8' all welding shall be per shaft shall be double All Welders shall be shall be



with a 10" d luminaire mounting. transitional donut shall be provided for with a 10° diameter base. At the top of the post an integral 3" O.D. \times 3" tenon with a The post shall be 16' in height

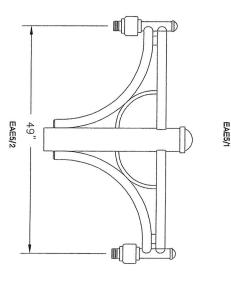
door shall be provided in the base for anchorage and wiring access. A ground screw shall be provided inside the base opposite be installed on a NSTALLATION The post shall be provided with four, hot—dip galvanized L—type anchor bolts t INSTALLATION the door diameter bolt circle. A grounding to

EUROTIQUE Architectural Lighting Underground Service Street Lighting Pole Assembly

OF LA VERKIN STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION _

ALT. LIGHT POLE DETAILS

111-6 3A/5 24.5"



PE3 PE3 PE4 PE7

IR NEMA Twist-Lock Recepticle only E19 NEMA Twist-Lock Photocontrol 120,208,204V 23 NEMA Twist-Lock Photocontrol 347VV 24 NEMA Twist-Lock Photocontrol 480V 27 NEMA Twist-Lock Photocontrol 277V

13" 13" OC 4"x28" Wall Bracket Mounting plate 2.5 2.25" 22.5"

EUROTIQUE "ARMS

SPECIFICATIONS

EAE Series * 5" dia. Arms & Wall Brackets

The arms and wall brackets shall be one-piece construction. The round tubing arms shall be welded to a center spool and plumbizer housing. For the wall bracket, the arm shall be welded to a flat wall plate. All welding shall be per ANSI/AWS D1.2. All welders shall be certified.

MATERIALS

The finals, plumb housing and swivel nipple shall be cast aluminum. The arm, center spool, arm spools and wall bracket mounting plate shall be aluminum. All hardware shall be stainless steel. All exterior hardware shall be tamper resistant.

INSTALATION

The arms shall slip fit a 4.375" O>D> x 11" post top tenon and attach with (8) socket set screws. Matching Eurotique poles shall be 5" diameter or 5"/7" diameter. The center final or 5"/7" diameter. The center final and arm final shall be removable. The wall bracket shall have six ½ dia. holes for mounting to the wall. Optional twist-lock photocontrol installed at center spool top instaed (Bracket mounting hard hished by others. 2" x rms and wall bracket shall have 5" NPT swivel nipples for luminaire hardware fur-2" x 3" vertica vertical

For finish specifications and color options, see "Finish" section in catalog.

31.5"

9.5"

15"

1.5" Swive Nipple for Luminaire Mounting

ORDERING INFORMATION

Choose the boldface catalog monenclature that best suits your needs and write it on the appropriate line Example: EAE5/1 ANBK PER PE1

EAE5WB EAE5/1 EAE5/2 Series # of Lun Finish 1

ANTIQUE Street Lamps NOTES: 1. for finish specifications and color options, see "Finish" section in catalog. 2. Iwist-Lock Photocontrol not available with wall bracket.

2011-BW. Rundberg Ln. * Austin,TX 78758 ph(512) 977-8444*fax(512) 977-9622 www.ontiquestreetlamps.com

OF LA VERKIN - STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION

ALT. LIGHT POLE DETAILS

|||-4A/5

LA VERKIN REVISED/LIGHT POLE.DWG (REVISED 12-8-04)

Sakskproj A

EH22FT GCF 1D Flat Glass 1DS

CONSTRUCTION The arm and wall bracket shall be one-piece construction. The round tubing arms shall be welded to a center spool and plumbizer housing. For the wall bracket, the arm shall be welded to a flat wall plate. All welding shall be per ANSI/AWS D1.2. All welders shall be certified. swivel nipple shall be MATERIALS The finials, plumb housing and shall be cast aluminum. The arm,

center spool, arm spools and wall to mounting plate shall be aluminum. hardware shall be stainless steel. hardware shall be tamper resistant. cast aluminum. The pols and wall bracket All exterior

> The wall bracket shall have six ½" diameter holes for mounting to the wall. Both arms ar wall bracket shall have 1.5" NPT swivel nipples for luminaire mounting. Optional twist-lock 0.D. \times 11" post top tenon and attach with (8) socket set screws. Matching Eurotique poles shall be 5" diameter or 5"/7" diameter. The instead of finial. for luminaire mounting. Optional twist-lophotocontrol installed at center spool top center finial and arm NSTALLATION The arms shall slip—fit a finial shall be removable 4.375 and

CITY OF LA VERKIN STANDARD DRAWINGS FOR PUBLIC WORK:S ___ CONSTRUCTION

ALT. LIGHT POLE ARM & FIXTURE DETAILS

24.5"

5.0

EAE5/1

15"

9.5"

31.5

111-6 5A/5

Quick

1.5

Aluminum Swivel Nipple (Eurotque 5" Arm)

Plumb Housing (Eurotque 5"

Steel Socket Set Screw

Cast

Aluminum Ballast Housing

Cast

Aluminum

Skirt

Lens with Continuous Gasket

Hinged Aluminum Lens Ring with Captive Screv

Porcelain Mogul Base Socket

Aluminum Reflector, Pivoting with Captive Screw

H.I.D. Ballast Components (Factory Prewired)

Removable Ballast Plate with (3) Keyhole Slots

and

Screws

VERKIN REVISED/LIGHT POLE 3.DWG

EUROTIQUE Architectural Lighting Luminaire - Horizontal

Lighting