

Electric Underground Distribution Specifications



Table of Contents

Part I

Electric Underground Distribution Specifications

Drawing No.	Sheet No.	Description
311 2001	1 of 1	Underground Installation General Notes
311 2002	1 of 3 2 of 3 3 of 3	Joint Trench Configurations and Occupancy Guide Joint Trench Configurations and Occupancy Guide Joint Trench Configurations and Occupancy Guide (Sidewalk with Parkway)
311 2005	1 of 1	Concrete Pad for 3 Phase 12kV Padmounted Transformer
311 2006	1 & 2	Joint Trench Completion Configurations and Occupancy Details
311 2007	1 of 1	Riser Conduit(s) Installation General Information Detail
311 2008	1 of 1	Secondary or Service Riser Conduit(s) Installation General Information Detail
311 2008	1 of 1	Service Riser Conduit(s) Installation General Information Detail
311 2101	1 of 1	Typical Trench Detail
311 2103	1 of 2 2 of 2	Secondary Conduit Installation (For Off-Side Take-Off) Secondary Conduit Installation (Sidewalk with Parkway)
311 2104	1 of 3 2 of 3 3 of 3	Service Trench Detail, Secondary Service Box (Main Trench Side) Secondary Service Box Conduit Detail (Main Trench Side) Secondary Service Box Installation Detail (Main Trench Side)
311 2105	1 of 2 2 of 2	Service Trench Detail (Off-Side) Secondary Service Box Installation Detail (Off-Side)
311 2501	1 of 1	Typical Trench Detail – Sidewalk with Parkway



Table of Contents (continued)

Drawing No.	Sheet No.	Description
311 2504	1, 2 & 3	Service Trench Detail, Secondary Service Box (Main Trench Side) Sidewalk with Parkway
311 2505	1 & 2	Service trench Detail (Off-Side) Sidewalk with Parkway
311 2506	1 of 1	Trench Transition – Regular Joint Trench to Sidewalk with Parkway Joint Trench
314 1007	1 & 2	Vault and Padmount Equipment Grounding
314 1008	1 of 1	Padmount Equipment Grounding
317 2422	1 of 1	Primary Vault with Riser Corner Location Installation Detail (Standard Trench)
317 2426	1 of 5	Transformer Location and Trench Detail (Main Trench Side)
	2 of 5	Transformer Location and Conduit (Main Trench Side)
	3 of 5	Fiberglass Transformer Box Pad Conduit and Box Pad Location
	4 of 5	Fiberglass Transformer Box Pad Conduit and Box Installation Detail
	5 of 5	Transformer Box Pad Marking Detail
317 2427	1 of 4	Primary Junction Box, Main Trench Detail (Located on Property Line)
	2 of 4	Primary Junction Box, Conduit Installation Detail
	3 of 4	Primary Junction Box, Conduit Installation Detail
	4 of 4	Primary Junction Box Installation Detail
317 2428	1 of 1	Primary Junction Box Corner Location Detail
317 2429	1 of 2	Module Enclosure Installation Detail
	2 of 2	Module Enclosure Trench Detail
317 2430	1 & 2	Module Enclosure Trench Detail Sidewalk with Parkway
317 2522	1 of 1	Primary Vault with Riser Corner Location Installation Detail (Sidewalk with Parkway)



Table of Contents (continued)

Drawing No.	Sheet No.	Description
317 2526	1 of 3	Service Trench, Transformer Location (Main Trench Side) Sidewalk with Parkway
	2 of 3	Service Trench, Transformer Location (Main Trench Side) Sidewalk with Parkway
	3 of 3	Fiberglass Transformer Box Pad, Conduit and Box Pad Location – Sidewalk with Parkway
317 2527	1, 2 & 3	Primary Junction Box, Main Trench Detail Sidewalk with Parkway
317 2528	1 of 1	Primary Junction Box Corner Location Detail Sidewalk with Parkway
323 0206 -0210	1 of 1	Secondary or Service Riser(s) Rigid Steel to PVC on Stand-off Brackets
326 1502	1 of 1	Bumper Post
326 1503	1 of 1	Removable Bumper Post
326 2401	1 of 1	Conductor Color Code
906 1003	1 of 1	Underground Single Phase Service Conductor and Riser Conduit Schedule
906 1004	1 of 1	Underground Three Phase Service Conductor and Riser Conduit Schedule
922 5679	1 of 2	Concrete Vault Assembly Lodi 504-LA
	2 of 2	Primary Vault Lodi 504-LA
922 5680	1 of 1	Primary Vault - Accessory Ring Lodi 504-LA
922 5681	1 of 1	Hinged Vault Cover Lodi 504-LA
922 5682	1 of 1	H-20 504 Vault Cover
922 5683	1 of 1	H-20 504 Vault Cover



Table of Contents (continued)

Part II

Metering Specifications

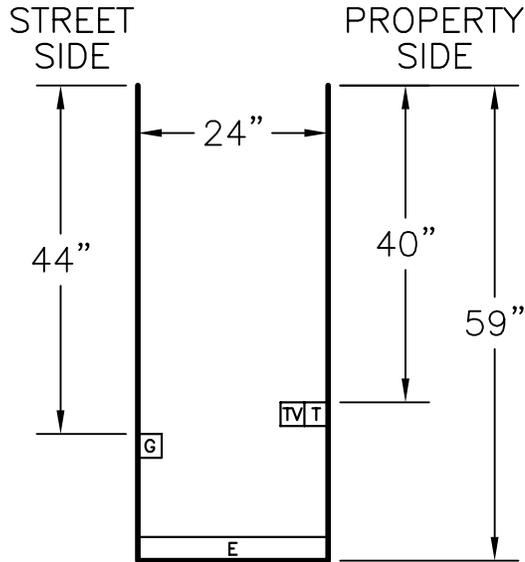
<u>Drawing No.</u>	<u>Sheet No.</u>	<u>Description</u>
401 0105	1 of 1	Conduit Requirements for Communication with Electric Metering Equipment

NOTE:

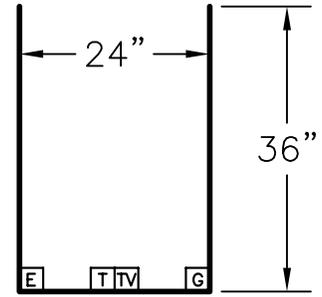
1. Except as noted, PVC, Type DB 120 (ASTM F 512 and NEMA TC-8, gray in color) conduit (minimum) will be used for conduit installations.
2. Except as noted, primary and secondary conduit elbows shall have a 36 in. radius.
3. Except as noted, service conduit elbows shall have a 24 in. radius.
4. Grounding per 314 1007 shall be installed at each primary junction box, transformer pad site, riser pole, switch pad location and each location otherwise noted on plans.
5. A 3/16" polypropylene pull rope must be installed in all conduits. The open end of all conduits must be protected in such a manner that it prohibits dirt or debris from entering.
6. Backfill shall be done such that conduit riser(s) will be disturbed as little as possible from their intended location.
7. Backfill shall be made with clean soil, free of rocks and other material that may damage conduit(s). City of Lodi, Electric Utility Department, shall maintain the right of refusal for the use of native backfill around conduit(s).
8. When native backfill cannot be used for backfill, the developer shall backfill around conduit(s) with clean sand to a minimum of 3 in. above the level of the conduit(s).
9. All trenches shall be backfilled and compacted per city specifications.
10. It is the developer's responsibility to install the remaining service conduit from the service stub at the back of the PUE to the service equipment (including excavation, backfill and compaction).
11. All conduit shall be proved in a manner acceptable to the Electric Utility Department. Conduit shall be free of dirt, rocks or other obstructions which could prevent, hinder or harm the installation of electric cable.
12. Electrical substructures (vaults, conduit, grounding, etc.) to be inspected by the Electric Utility Department for proper installation prior to backfill of any excavation. Call (209) 333-6817 to schedule substructure inspection. The developer shall notify the Electric Utility Department 48 hours in advance of any substructure installation scheduled outside of the normal workday (Monday through Friday). Developer shall pay all overtime premiums associated with inspections outside of the normal workday.

Drawing name: M:\DATA\CAD\Standards\UG\0311\2001.dwg Plotted: Jun.02,2004 - 1:59pm

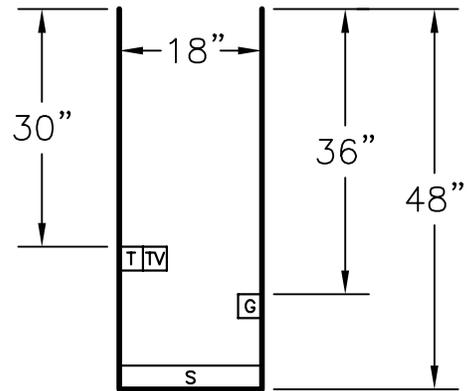
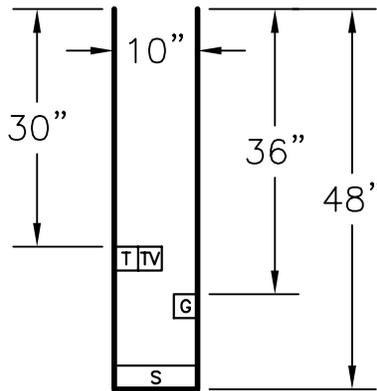
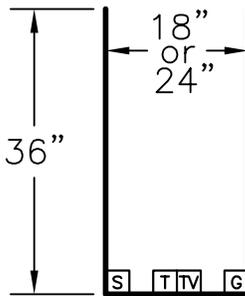
 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD UNDERGROUND INSTALLATION GENERAL NOTES			
22OCT99	BA	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 1 OF 1	311 2001
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	



MAIN TRENCH



SECONDARY TRENCH
STREET CROSSING



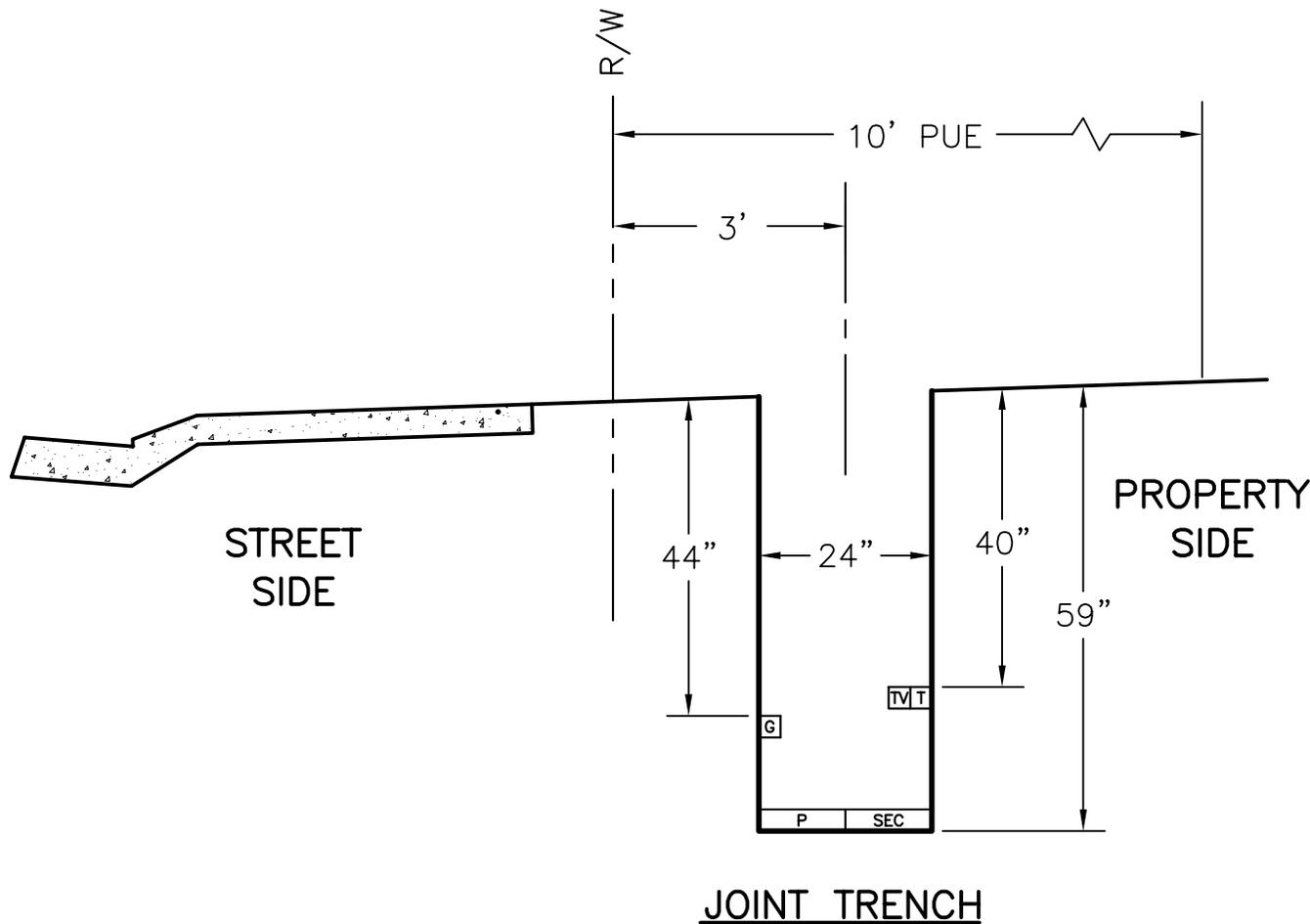
SERVICE TRENCHES

LEGEND:

- T TELEPHONE
- TV CABLE TV
- G GAS
- S ELECTRIC SERVICE(S)
- E ELECTRIC PRIMARY OR SECONDARY

Drawing name: M:\DATA\CAD\Standards\UG\0311\2002-1.dwg Plotted: Jun 02,2004 - 2:00pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD JOINT TRENCH CONFIGURATIONS AND OCCUPANCY GUIDE			
30AUG96	BA	DJC	<i>Ams</i>	<i>H. Hansen</i>	SHEET 1 OF 3	311 2002
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 6	

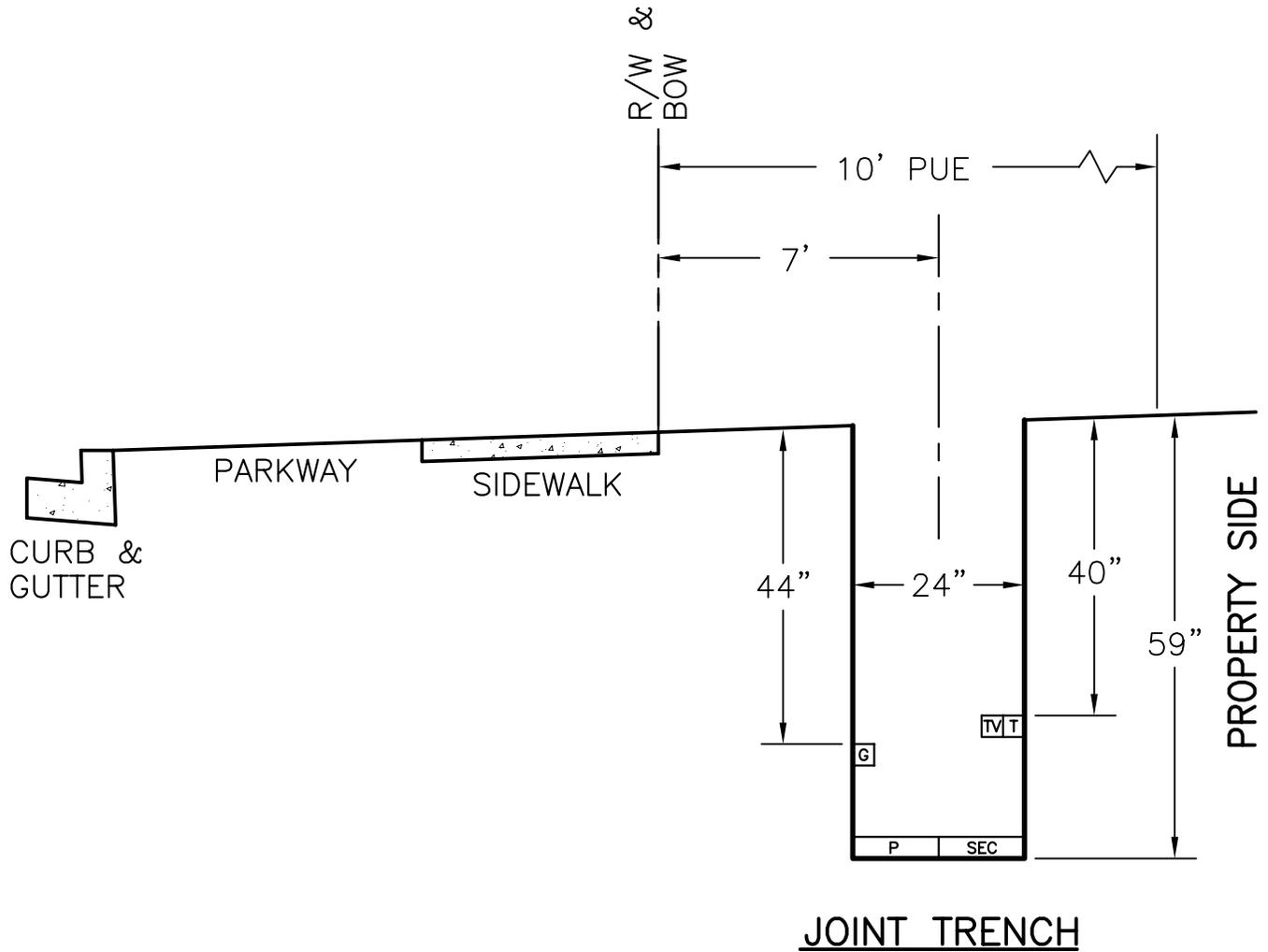


LEGEND:

- P PRIMARY CONDUITS
- SEC SECONDARY CONDUITS
- G GAS
- T TELEPHONE
- TV CABLE TV

Drawing name: M:\DATA\CAD\Standards\UG\031\2002-2.dwg Plotted: Jun 02,2004 - 2:00pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT		CONSTRUCTION STANDARD JOINT TRENCH CONFIGURATIONS AND OCCUPANCY GUIDE				
		30AUG96 DATE	BA DRAWN	DJC DESIGNED	<i>AMS</i> CHECKED	 APPROVAL

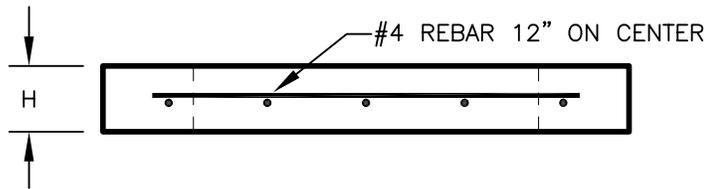
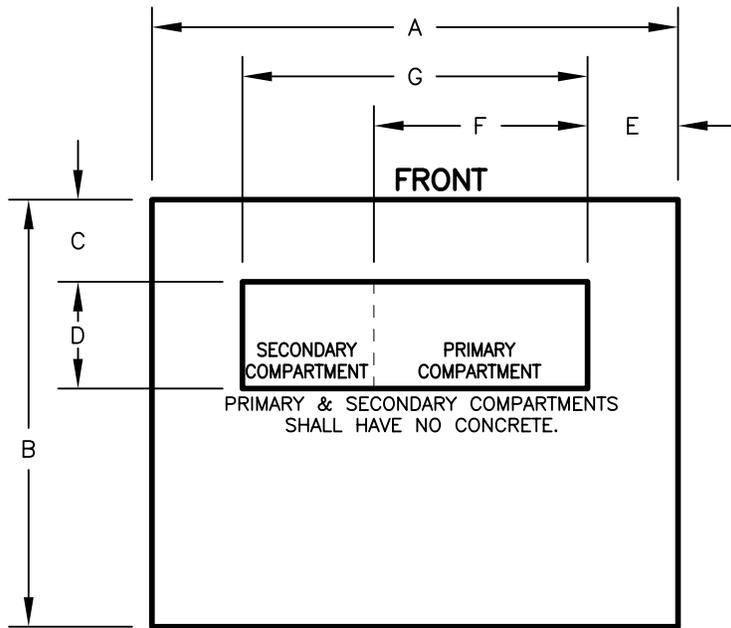


LEGEND:

- P PRIMARY CONDUITS
- SEC SECONDARY CONDUITS
- G GAS
- T TELEPHONE
- TV CABLE TV

Drawing name: M:\DATA\CAD\Standards\UG\031\2002-3.dwg Plotted: Jun 02,2004 - 2:01pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD JOINT TRENCH CONFIGURATIONS AND OCCUPANCY GUIDE – SIDEWALK WITH PARKWAY			
29MAY01	RT	DJC	<i>AMS</i>	<i>H. H. H. H.</i>	SHEET 3 OF 3	311 2002
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	



TRANSFORMER PAD DETAIL

TRANSFORMER PAD
DIMENSIONS IN INCHES

TABLE 1		
DIMENSION	PAD NUMBER	PAD NUMBER
A		
B		
C		
D		
E		
F		
G		
H		
FACE FRONT		
N=North, S=South E=East, W=West		

NOTES:

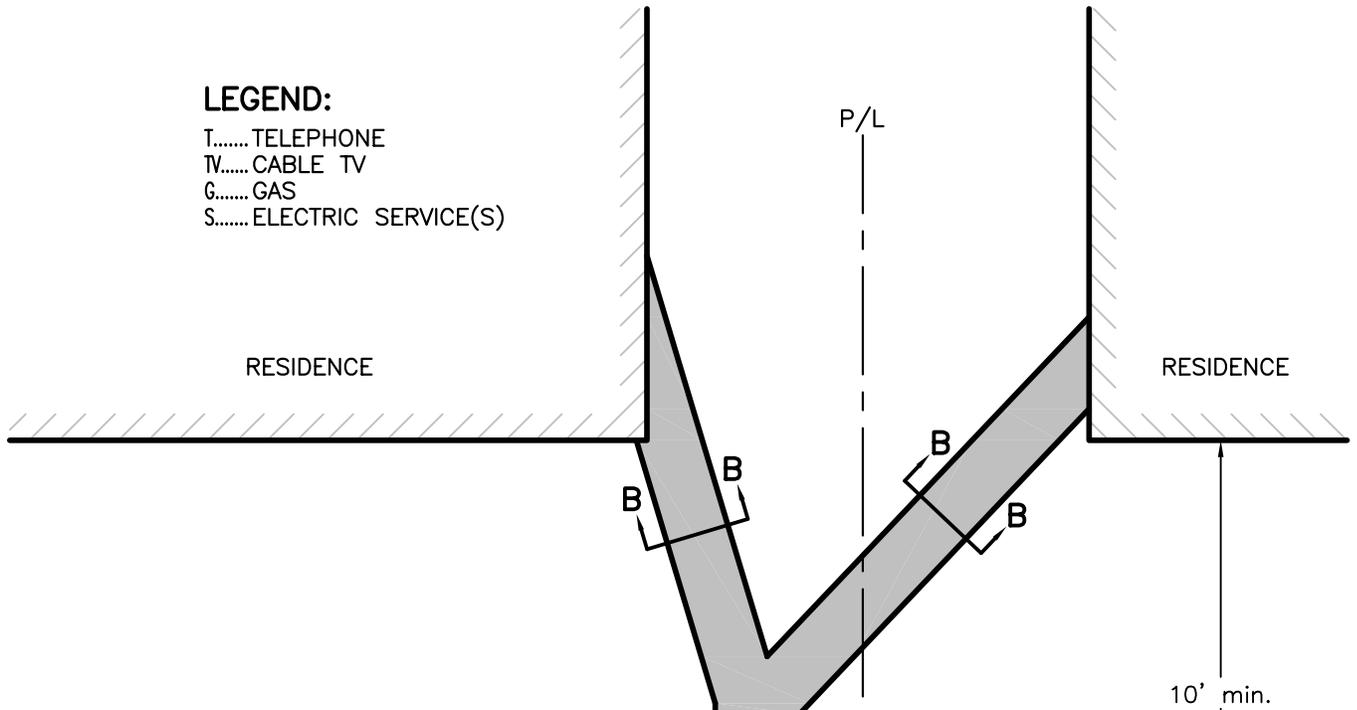
1. TRANSFORMER PAD(S) TO BE INSPECTED BY ELECTRIC UTILITY DEPARTMENT, PRIOR TO POURING. CALL (209) 333-6817 TO SCHEDULE THE TRANSFORMER PAD INSPECTION.
2. TRANSFORMER PAD(S) TO BE COMPACTED TO 90% COMPACTION. ALL BACKFILL AT TRANSFORMER PAD SITE(S) TO BE 1 ft. LIFTS. CITY OF LODI, PUBLIC WORKS DEPARTMENT, TO PROVIDE COMPACTION TESTS. CONTACT ELECTRIC UTILITY DEPARTMENT AT (209) 333-6817 FOR COORDINATION OF COMPACTION TESTING.
3. PAD GRADE(S) TO BE EQUAL TO OR ABOVE ADJACENT CURBING OR PAD(S) TO BE 3 in. ABOVE ADJACENT PAVEMENT.
4. FACE TRANSFORMER PAD(S) AS NOTED.
5. SCREENING AROUND TRANSFORMER(S) MUST BE APPROVED BY THE ELECTRIC UTILITY DEPARTMENT IN WRITING.
6. 8 ft. OF CLEAR WORKING SPACE MUST BE MAINTAINED IN FRONT OF THE TRANSFORMER(S).
7. TRANSFORMER PAD(S) TO BE LEVEL.
8. SPRINKLER SYSTEM IN VICINITY OF ELECTRICAL EQUIPMENT TO CONSIST OF BUBBLE TYPE ONLY, i.e. NO WATER SPRAY ON ELECTRICAL EQUIPMENT.
9. CONCRETE: PORTLAND CEMENT CONCRETE SHALL BE CLASS "B" CONFORMING TO SECTION 90 OF THE STATE OF CALIFORNIA, STANDARD SPECIFICATIONS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28 DAYS.
10. UNLESS OTHERWISE NOTED, CENTER SECONDARY CONDUIT(S) IN THE SECONDARY COMPARTMENT.
11. CENTER PRIMARY CONDUIT IN PRIMARY COMPARTMENT.
12. CONDUITS AT TRANSFORMER PAD(S) ARE TO BE STUBBED 2 in. ABOVE PAD LEVEL.
13. SEE TABLE 1 FOR TRANSFORMER PAD DIMENSIONS.

Drawing name: M:\DATA\CAD\Standards\UG\0311\2005.dwg Plotted: Jun 02,2004 - 2:02pm

	CITY OF LODI			CONSTRUCTION STANDARD		
	ELECTRIC UTILITY DEPARTMENT			CONCRETE PAD FOR 3 PHASE 12KV PADMOUNTED TRANSFORMER		
20NOV03	CW	AS	<i>AMS</i>	<i>H. Hanley</i>	SHEET 1 OF 1	311 2005
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	

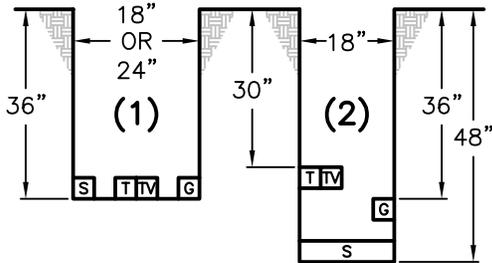
LEGEND:

- T..... TELEPHONE
- TV..... CABLE TV
- G..... GAS
- S..... ELECTRIC SERVICE(S)



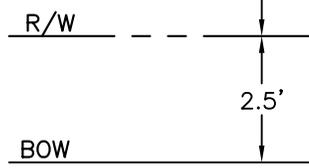
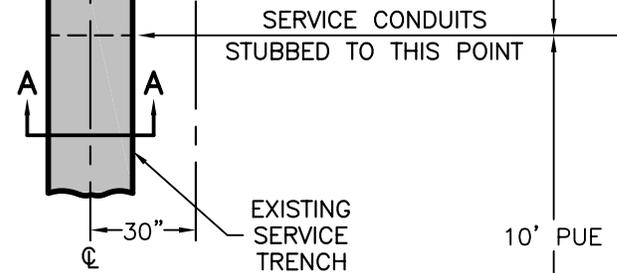
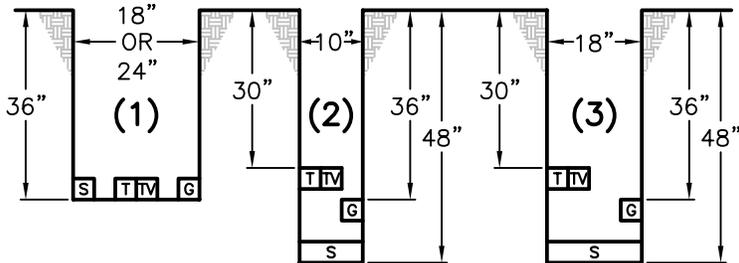
SECTION A-A

EXISTING SERVICE TRENCH CONFIGURATIONS AND OCCUPANCY DETAILS (TWO OPTIONS)



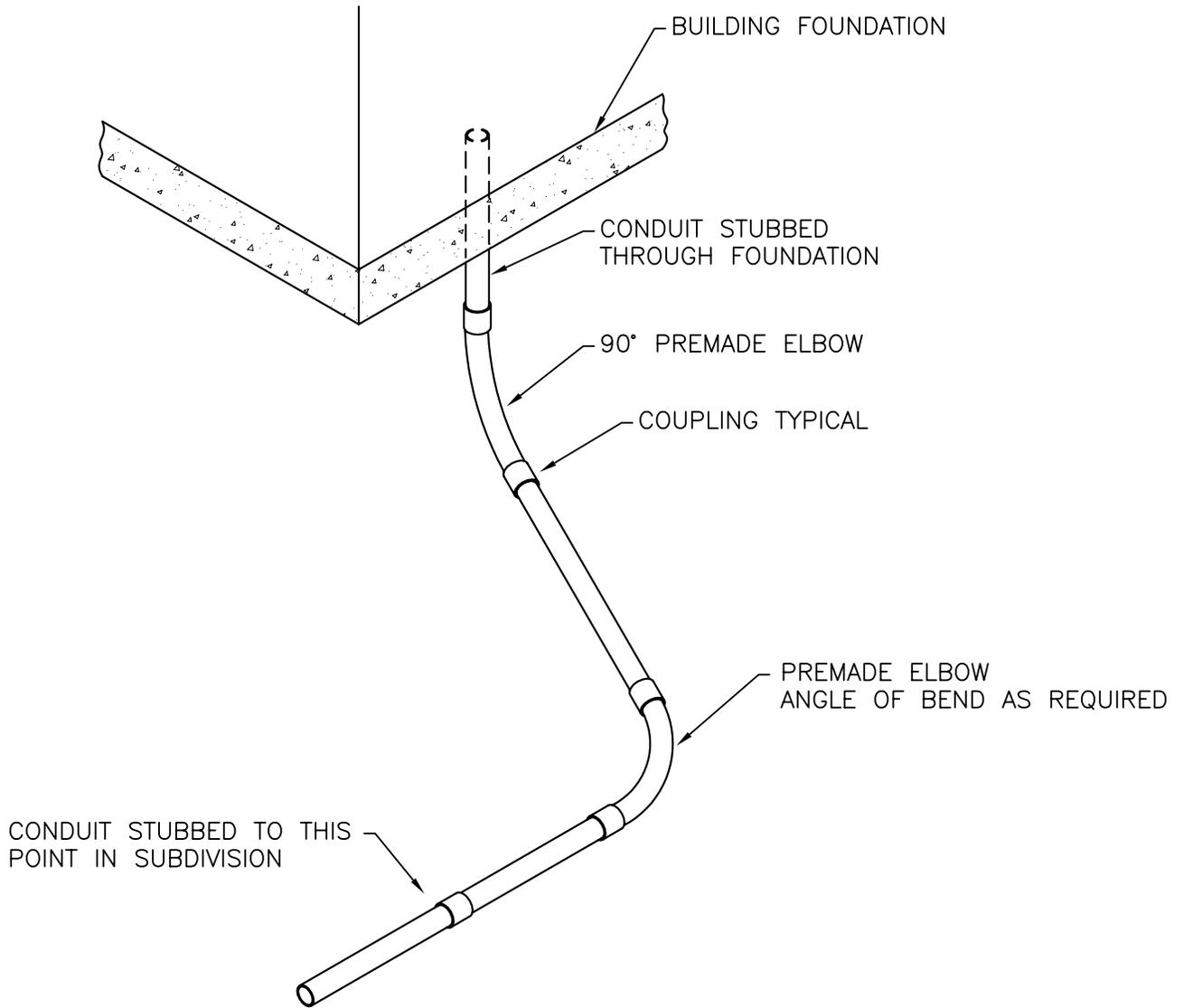
SECTION B-B

ALLOWABLE JOINT SERVICE TRENCH COMPLETION CONFIGURATIONS AND OCCUPANCY DETAILS (THREE OPTIONS)



Drawing name: M:\DATA\CAD\Standards\UG\031\N\2006-1.dwg Plotted: Jun 02,2004 - 2:02pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD JOINT TRENCH COMPLETION CONFIGURATIONS AND OCCUPANCY DETAILS			
22OCT99	BA	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 1 OF 2	311 2006
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 6	

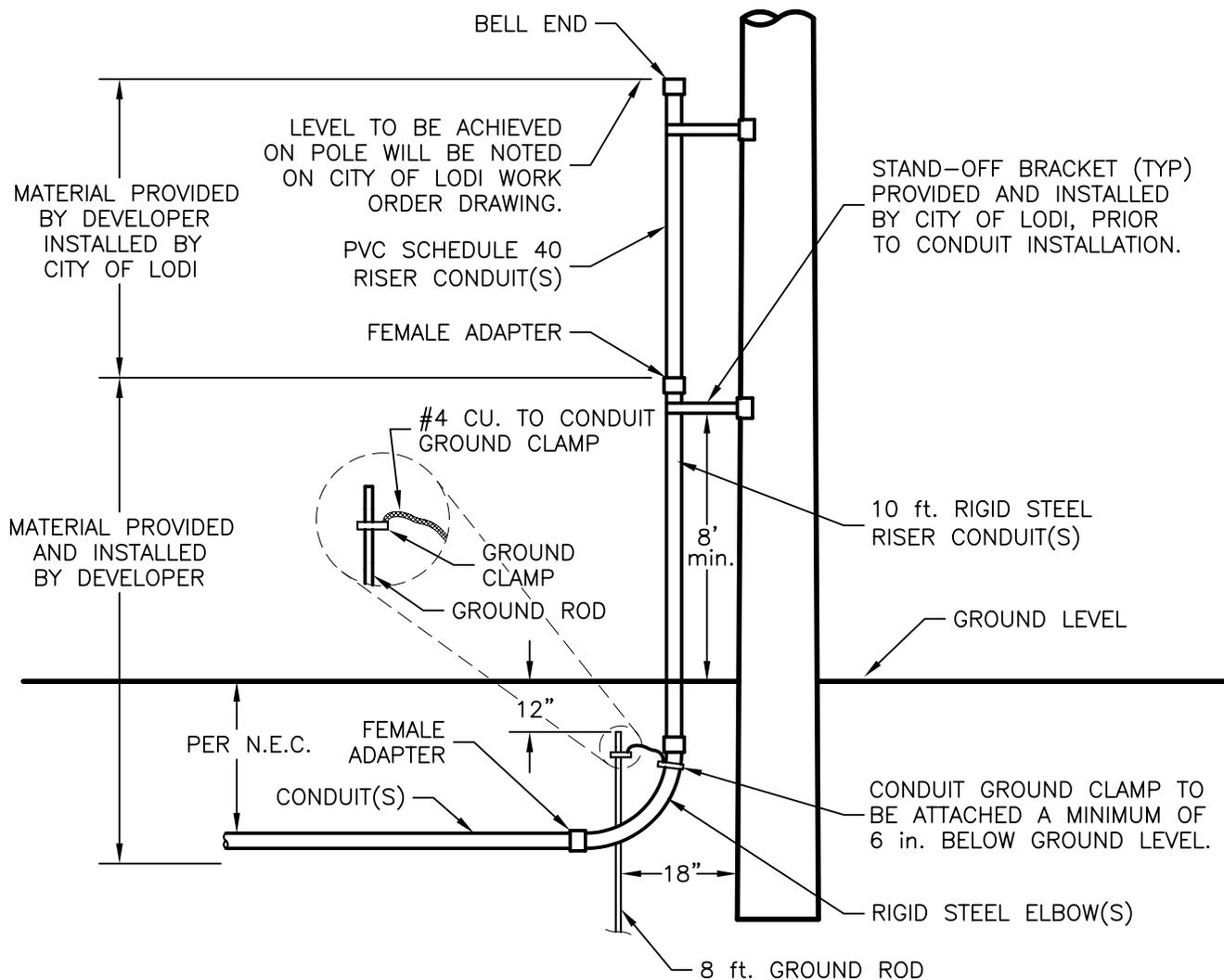


NOTES:

1. ALL SERVICE CONDUIT TO BE 2 in. CONDUIT UNLESS OTHERWISE NOTED ON PLANS.
2. CONDUIT, INCLUDING PREMADE ELBOWS, SHALL BE PVC, TYPE DB-120 (ASTM F 512 AND NEMA TC-8, GRAY IN COLOR) MINIMUM. ALL EXPOSED CONDUIT(S), INCLUDING 90° ELBOWS, TO BE MINIMUM PVC SCHEDULE 40. ALL ELBOWS FOR SERVICE COMPLETION TO HAVE A MINIMUM 24 in. RADIUS.
3. CONDUIT TO BE INSTALLED AT DEPTHS SHOWN IN DETAILS, SHEET 1 OF 2, UNLESS OTHERWISE NOTED ON PLANS.
4. MAXIMUM DEFLECTION OF A 20 ft. SECTION OF CONDUIT SHALL BE 5 in. UNLESS PREMADE BENDS ARE USED.

Drawing name: M:\DATA\CAD\Standards\UG\031\2006-2.dwg Plotted: Jun 02,2004 - 2:03pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD			
			JOINT TRENCH COMPLETION CONFIGURATIONS AND OCCUPANCY DETAILS			
22OCT99	BA	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 2 OF 2	311 2006
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	

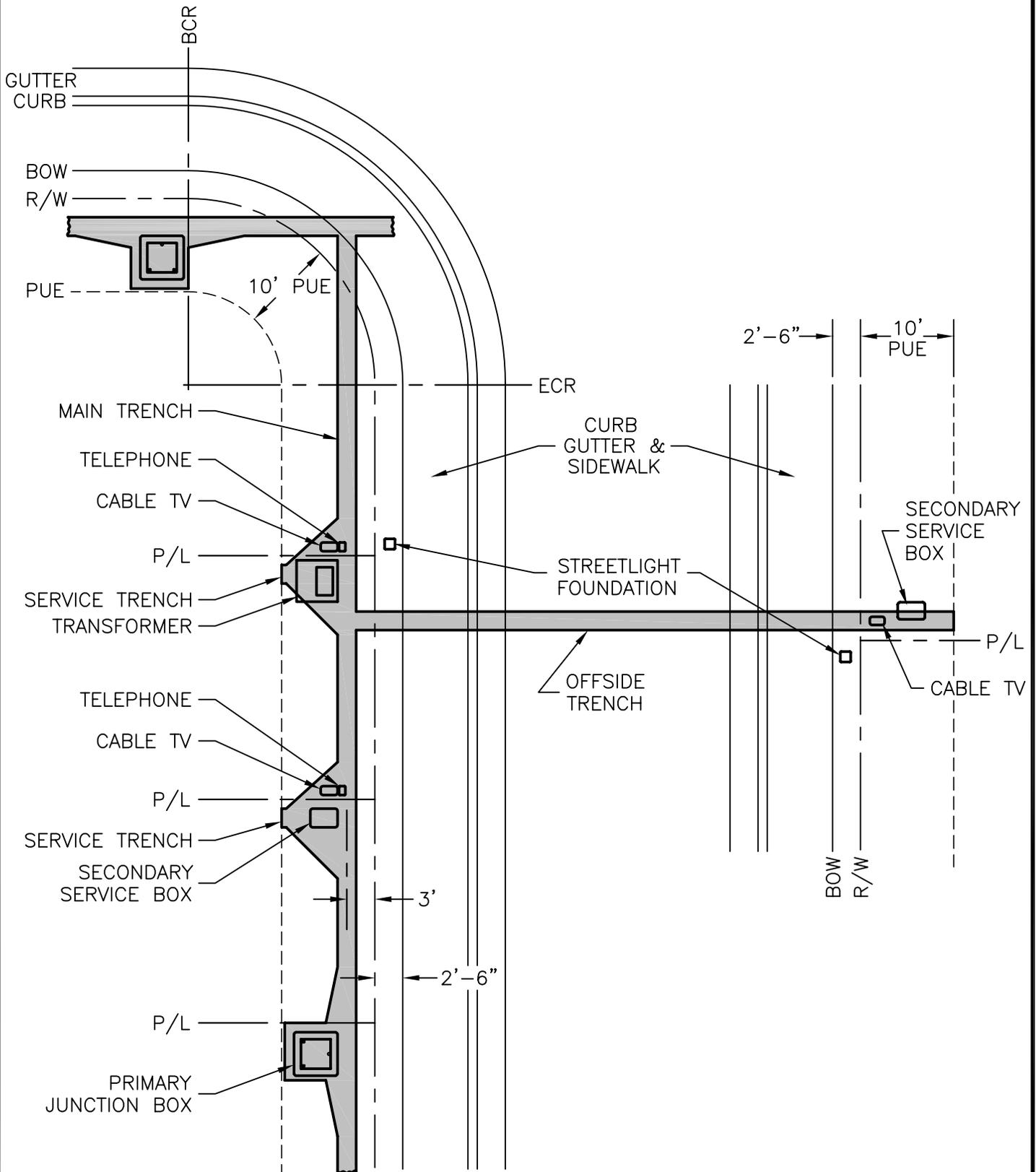


NOTE:

1. DEVELOPER TO PROVIDE RISER CONDUIT(S) AND ASSOCIATED EQUIPMENT TO REACH LEVEL ON POLE SO NOTED ON WORK ORDER. 90° ELBOW(S) AT POLE AND FIRST TEN FEET UP POLE TO BE RIGID STEEL CONDUIT(S) WITH THE REMAINDER UP THE POLE TO BE PVC SCHEDULE 40 (GRAY IN COLOR).
2. CONDUIT(S) AT THE POLE TO BE ATTACHED TO STAND-OFF BRACKETS WHICH WILL BE FURNISHED AND INSTALLED BY THE CITY OF LODI, ELECTRIC UTILITY DEPARTMENT.
3. ALL 90° RISER ELBOW(S) TO HAVE 24 in. RADIUS (OR AS SPECIFIED).
4. DEVELOPER TO INSTALL CONDUIT(S) UP TO AND INCLUDING RIGID STEEL RISER SECTION(S). CITY OF LODI, ELECTRIC UTILITY DEPARTMENT SHALL COMPLETE RISER CONDUIT(S) INSTALLATION FROM THE RIGID STEEL RISER SECTION(S) TO THE REQUIRED LEVEL ON POLE (MATERIAL TO BE PROVIDED BY DEVELOPER).
5. DEVELOPER TO PROVIDE SUFFICIENT PULL LINE IN EACH CONDUIT TO REACH THE REQUIRED LEVEL ON THE POLE.
6. LOCATION, SIZE AND NUMBER OF RISER CONDUIT(S) AT POLE SHALL BE PER CITY OF LODI SPECIFICATIONS AND WORK ORDER DRAWINGS.

Drawing name: M:\DATA\CAD\Standards\UG\031\N2008.dwg Plotted: Jun 02,2004 - 2:04pm

			CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SECONDARY OR SERVICE RISER CONDUIT(S) INSTALLATION GENERAL INFORMATION DETAIL	
13NOV01	RT	AMS	<i>Ams</i>	<i>H. Hansen</i>	SHEET 1 OF 1	311 2008	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3		



Drawing name: M:\DATA\CAD\Standards\UG\0311\2101.dwg Plotted: Jun 02,2004 - 2:05pm



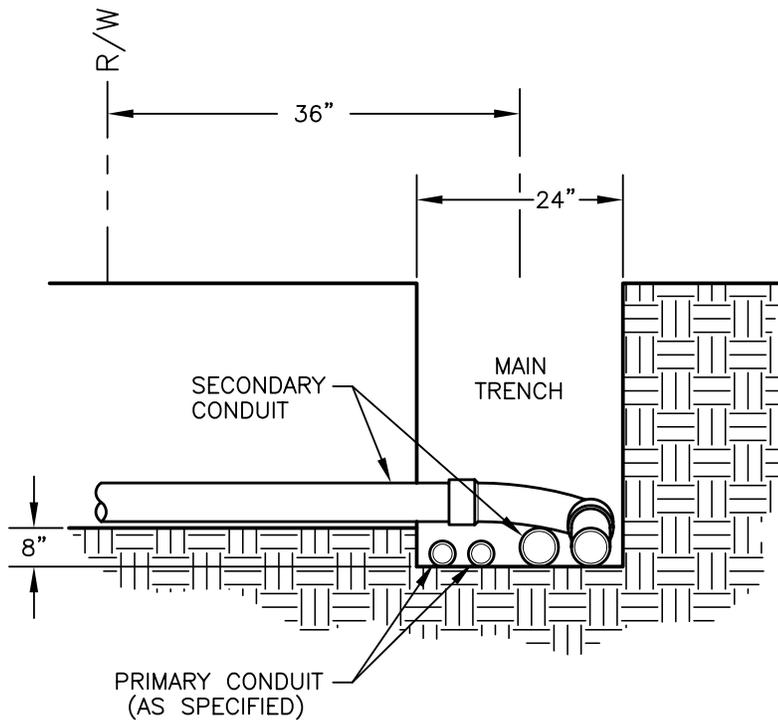
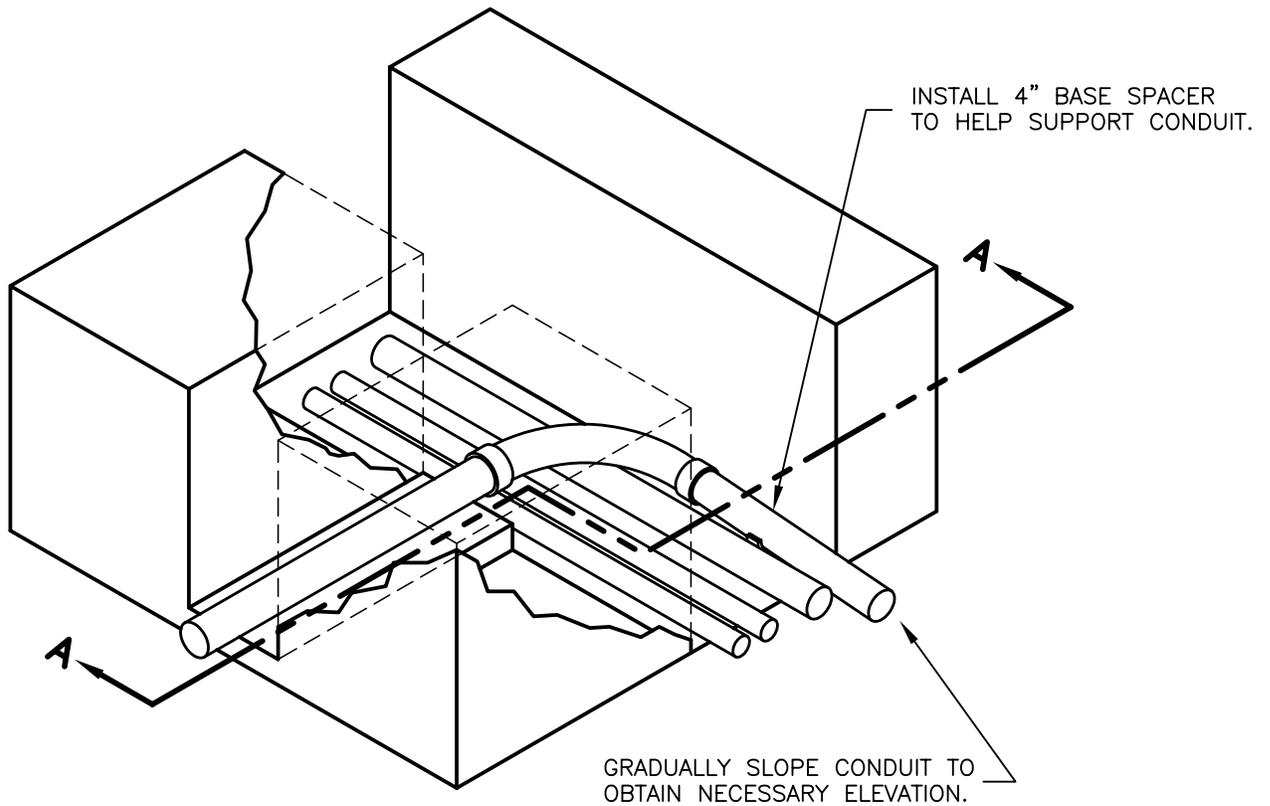
CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

TYPICAL TRENCH DETAIL

20AUG96	BA	DJC	<i>Arms</i>	<i>H. Haney</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3

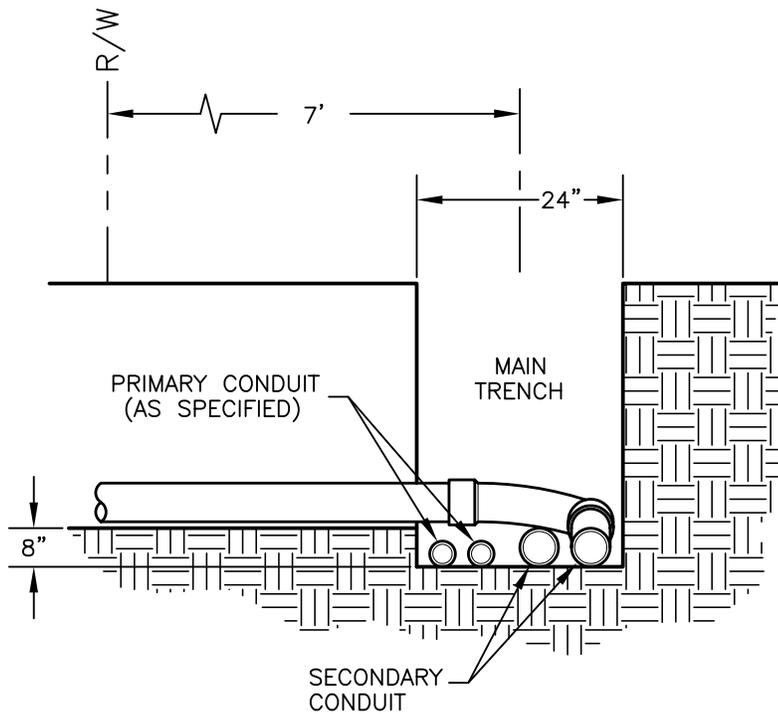
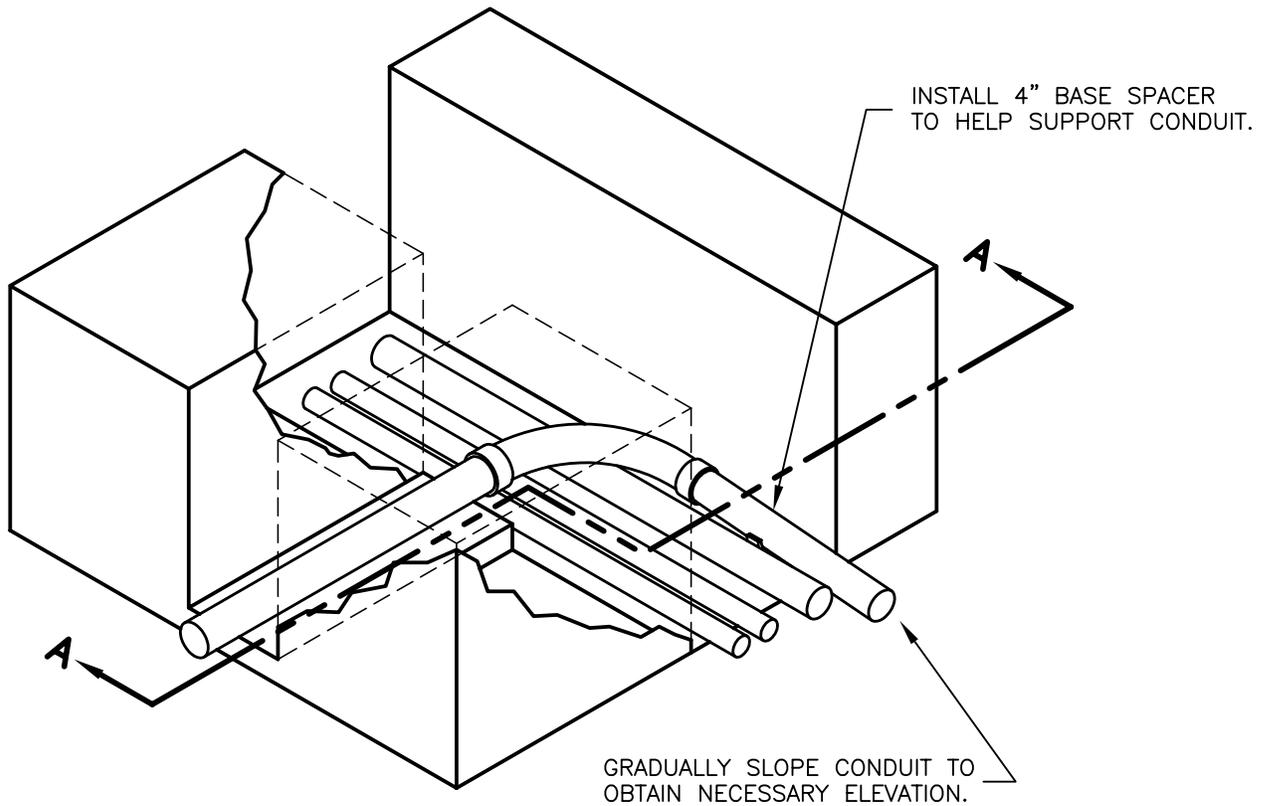
311 2101



SECTION A-A

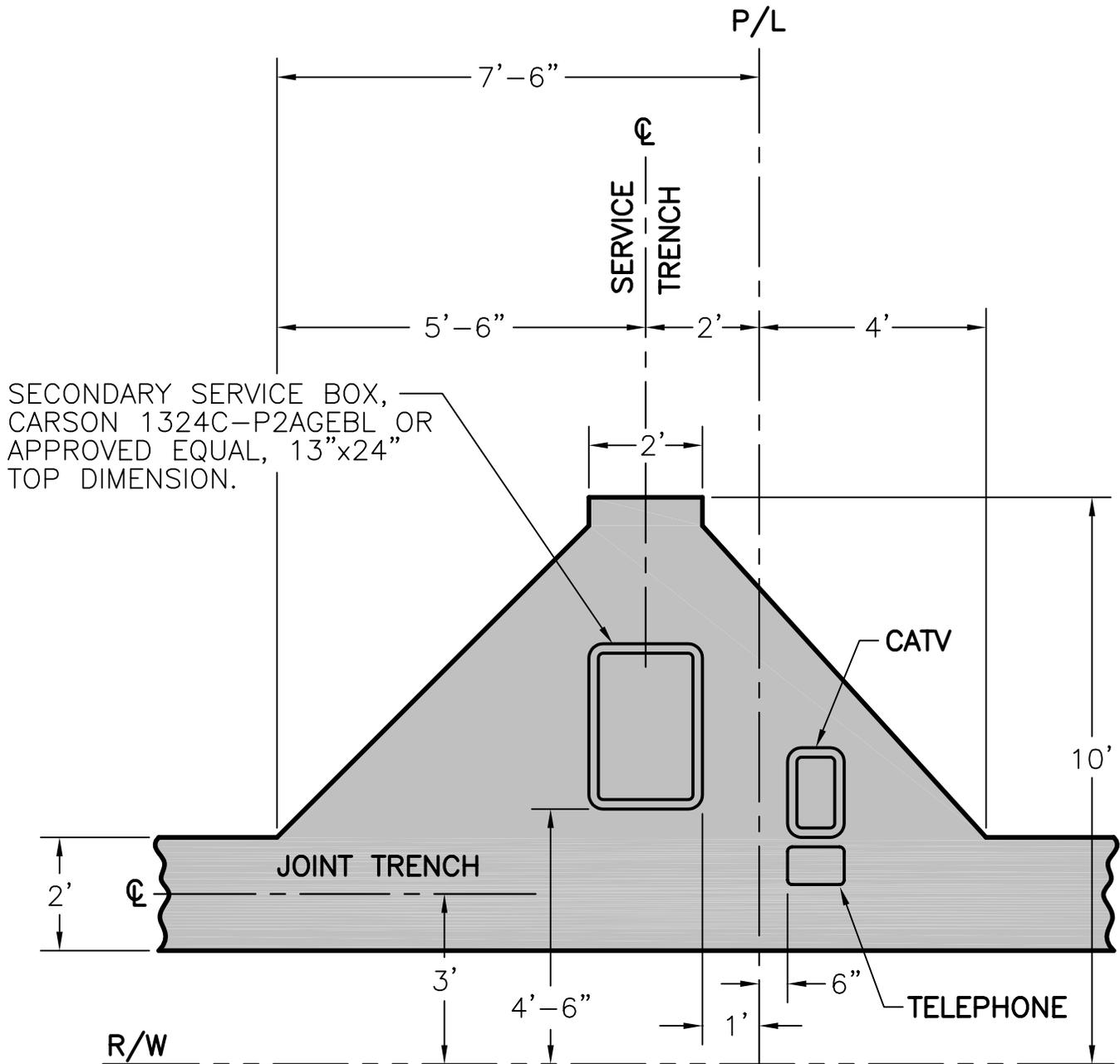
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 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SECONDARY CONDUIT INSTALLATION (FOR OFF-SIDE TAKE-OFF)		
30AUG96	BA	BA	<i>AMS</i>	<i>H. Harrison</i>	SHEET 1 OF 2
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3
					311 2103



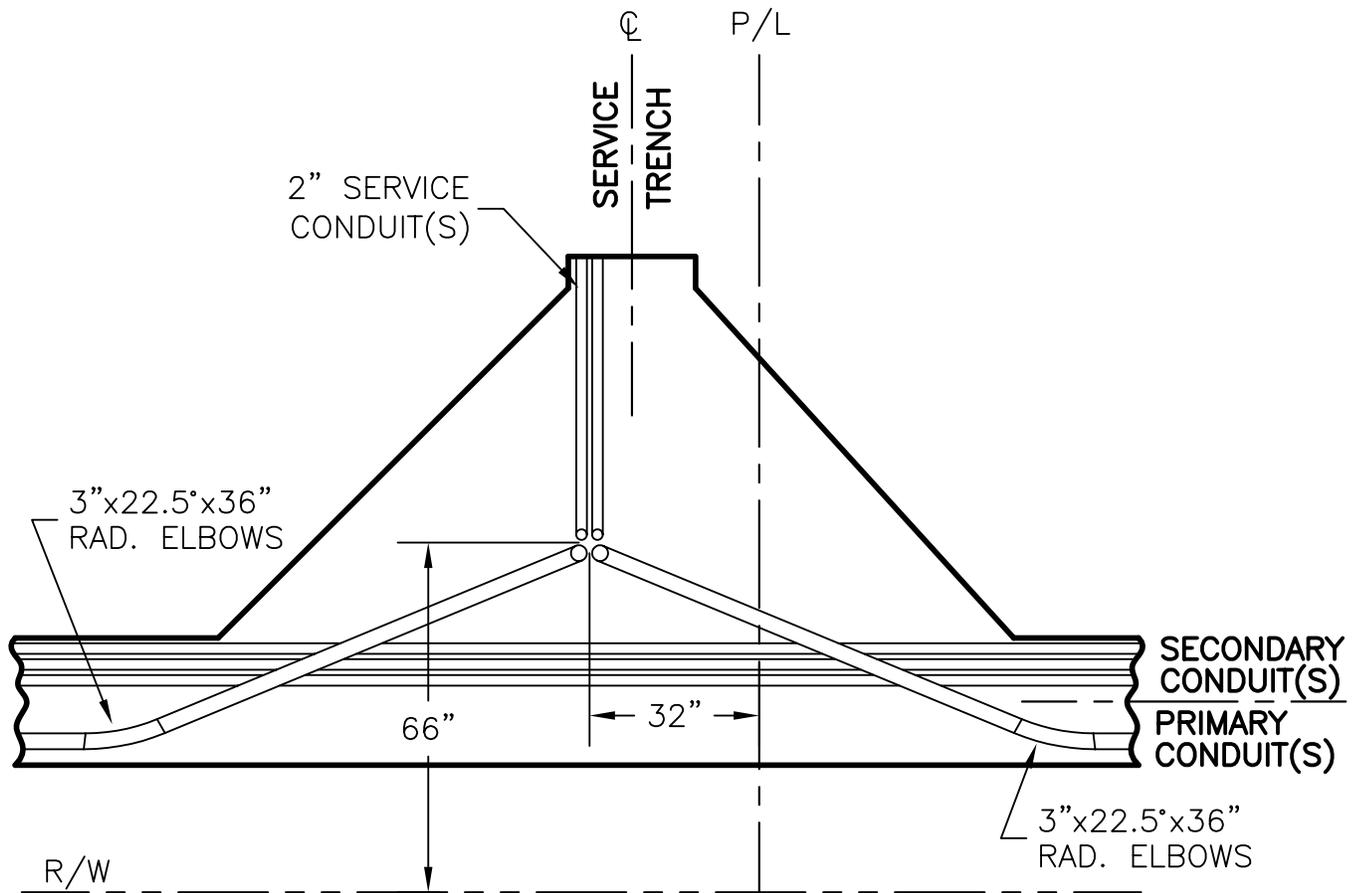
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 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SECONDARY CONDUIT INSTALLATION (SIDEWALK WITH PARKWAY)		
29MAY01	RT	DJC	<i>AMS</i>	<i>H. Haney</i>	SHEET 2 OF 2
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2
					311 2103



Drawing name: M:\DATA\CAD\Standards\UG\031\N2104-1.dwg Plotted: Jun 02,2004 - 2:07pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT		CONSTRUCTION STANDARD				311 2104
		SERVICE TRENCH DETAIL, SECONDARY SERVICE BOX, (MAIN TRENCH SIDE)				
30AUG96	BA	DJC	<i>AMS</i>	<i>H. K...</i>	SHEET 1 OF 3	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3	

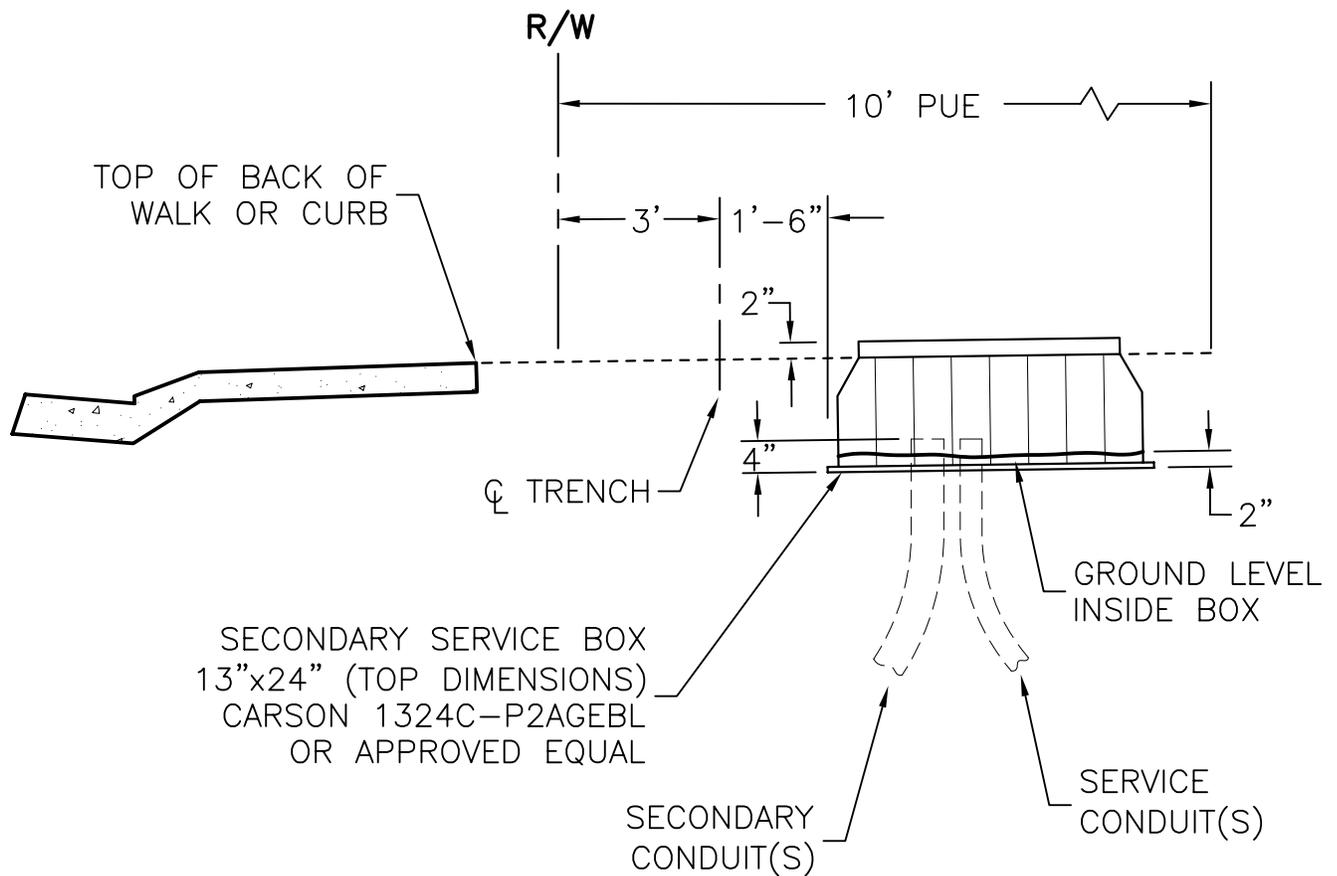


NOTE:

1. ALL 90° SECONDARY CONDUIT ELBOWS TO HAVE A 36 in. RADIUS
2. ALL 90° SERVICE CONDUIT ELBOWS TO HAVE A 24 in. RADIUS
3. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS [RRC-2(2"), RRC-3(3")] OR APPROVED EQUAL.

Drawing name: M:\DATA\CAD\Standards\UG\031\2104-2.dwg Plotted: Jun 02,2004 - 2:07pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SECONDARY SERVICE BOX CONDUIT DETAIL (MAIN TRENCH SIDE)			
10JUN97	BA	DJC	<i>Ams</i>	<i>H. Haney</i>	SHEET 2 OF 3	311 2104
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4	



NOTE:

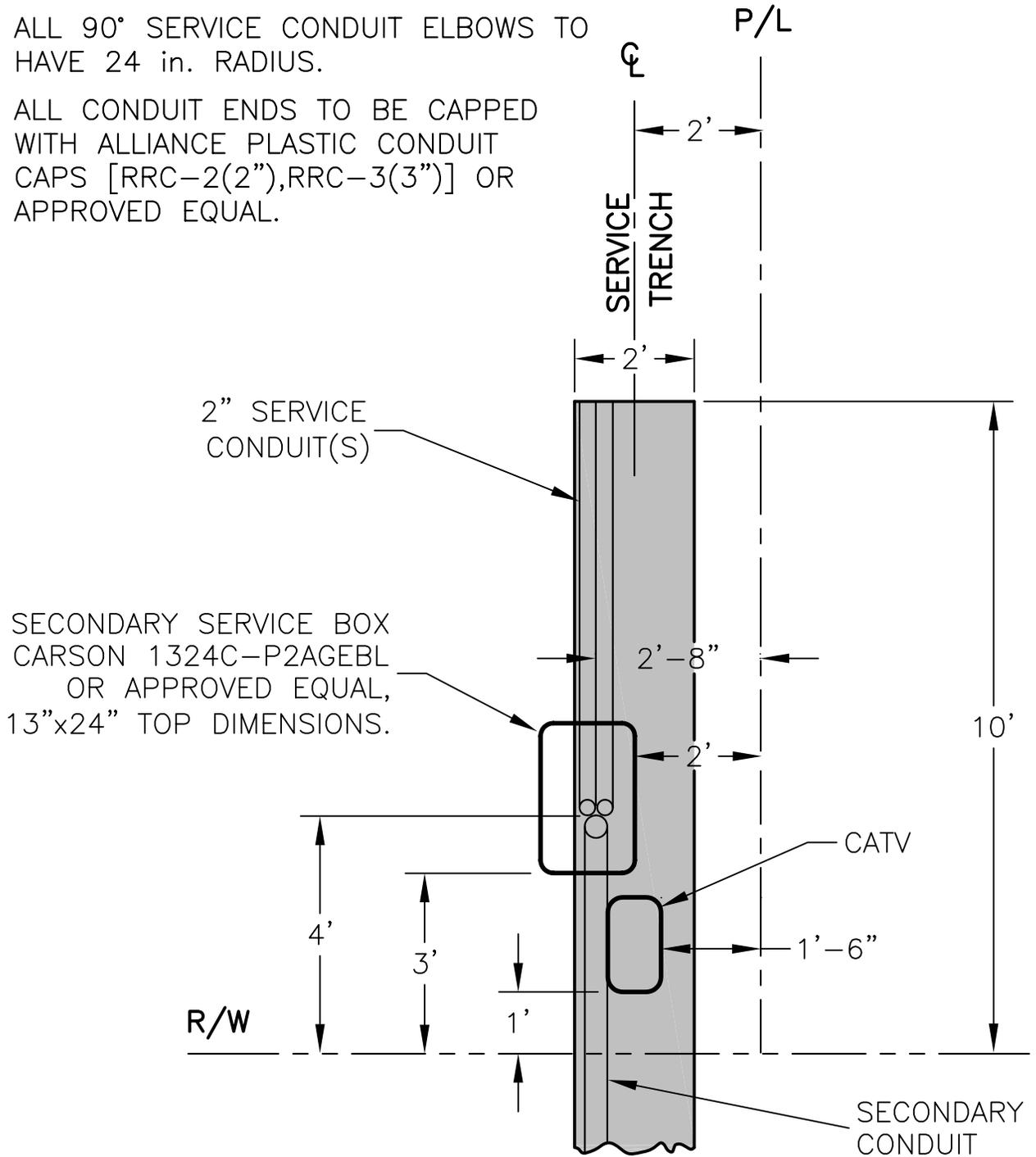
1. SECONDARY SERVICE BOX GRADE, FROM FRONT TO BACK, SHALL BE 2 in. ABOVE A LINE EXTENDING FROM THE TOP OF BACK OF CURB OR SIDEWALK TO THE FINAL GRADE AT THE BACK OF THE PUE (SEE DRAWING) AND SHALL BE LEVEL SIDE TO SIDE.
2. SECONDARY SERVICE BOX LOCATIONS TO BE SPOTTED PER CITY OF LODI DRAWINGS, STANDARDS AND SPECIFICATIONS. STAKING WILL BE PROVIDED BY DEVELOPER.
3. HYDRO HAMMER IS NOT TO BE USED AROUND SUBSTRUCTURES.

Drawing name: M:\DATA\CAD\Standards\UG\0311\2104-3.dwg Plotted: Jun 02,2004 - 2:08pm

			<p align="center">CITY OF LODI ELECTRIC UTILITY DEPARTMENT</p>				<p align="center">CONSTRUCTION STANDARD</p> <p align="center">SECONDARY SERVICE BOX INSTALLATION DETAIL (MAIN TRENCH SIDE)</p>	
21OCT99	BA	DJC	<i>Ams</i>	<i>H. Hanson</i>	SHEET 3 OF 3	311 2104		
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4			

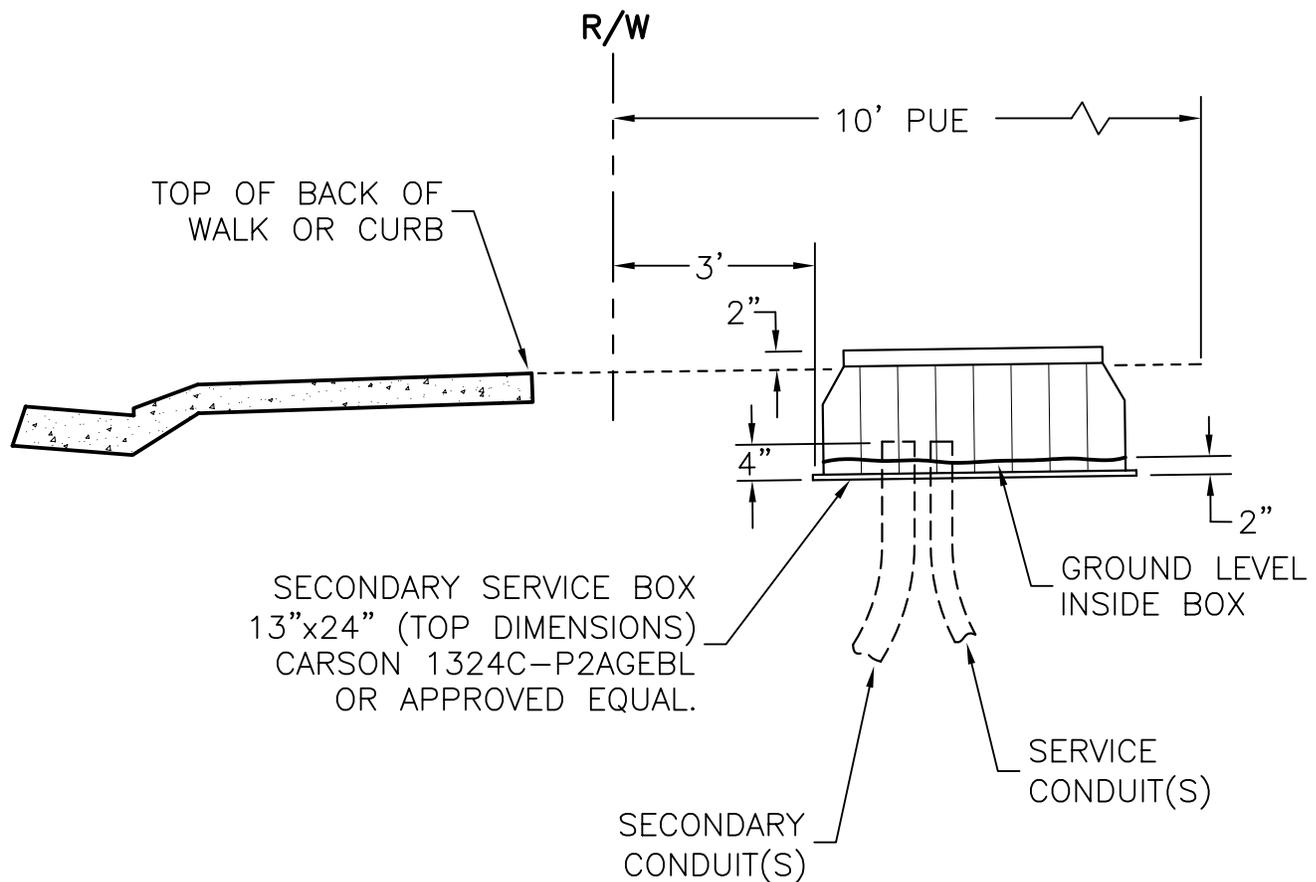
NOTE:

1. ALL 90° SECONDARY CONDUIT ELBOWS TO HAVE 36 in. RADIUS.
2. ALL 90° SERVICE CONDUIT ELBOWS TO HAVE 24 in. RADIUS.
3. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS [RRC-2(2"),RRC-3(3")] OR APPROVED EQUAL.



Drawing name: M:\DATA\CAD\Standards\UG\031\2105-1.dwg Plotted: Jun 02,2004 - 2:08pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SERVICE TRENCH DETAIL (OFF-SIDE)			
10JUN97	BA	DJC	<i>AMS</i>	<i>H. Haney</i>	SHEET 1 OF 2	311 2105
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	

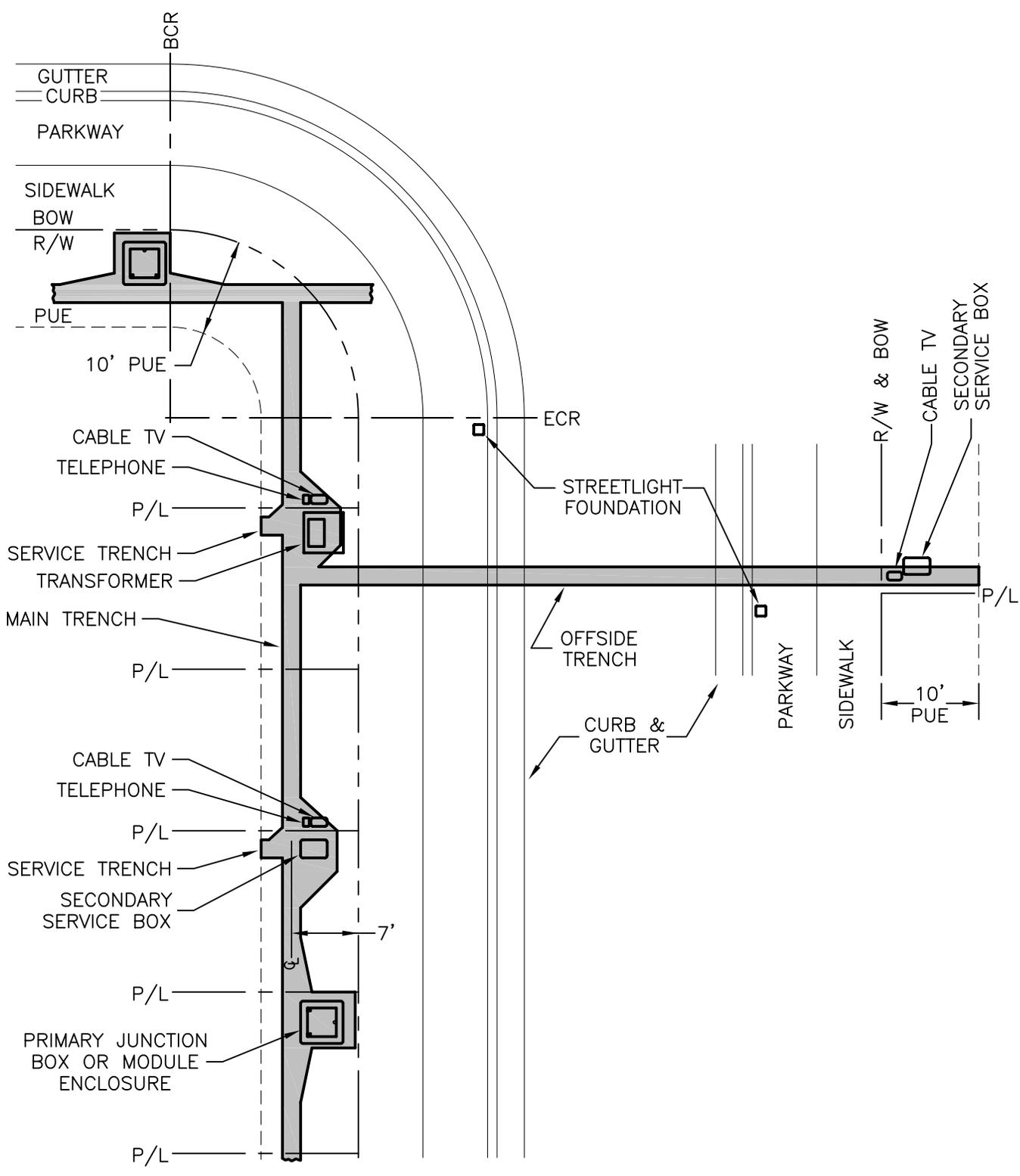


NOTE:

1. SECONDARY SERVICE BOX GRADE, FROM FRONT TO BACK, SHALL BE 2 in. ABOVE A LINE EXTENDING FROM THE TOP OF BACK OF CURB OR SIDEWALK TO THE FINAL GRADE AT THE BACK OF THE PUE (SEE DRAWING) AND SHALL BE LEVEL SIDE TO SIDE.
2. SECONDARY SERVICE BOX LOCATIONS TO BE SPOTTED PER CITY OF LODI DRAWINGS, STANDARDS AND SPECIFICATIONS. STAKING WILL BE PROVIDED BY DEVELOPER.
3. HYDRO HAMMER IS NOT TO BE USED AROUND SUBSTRUCTURES.

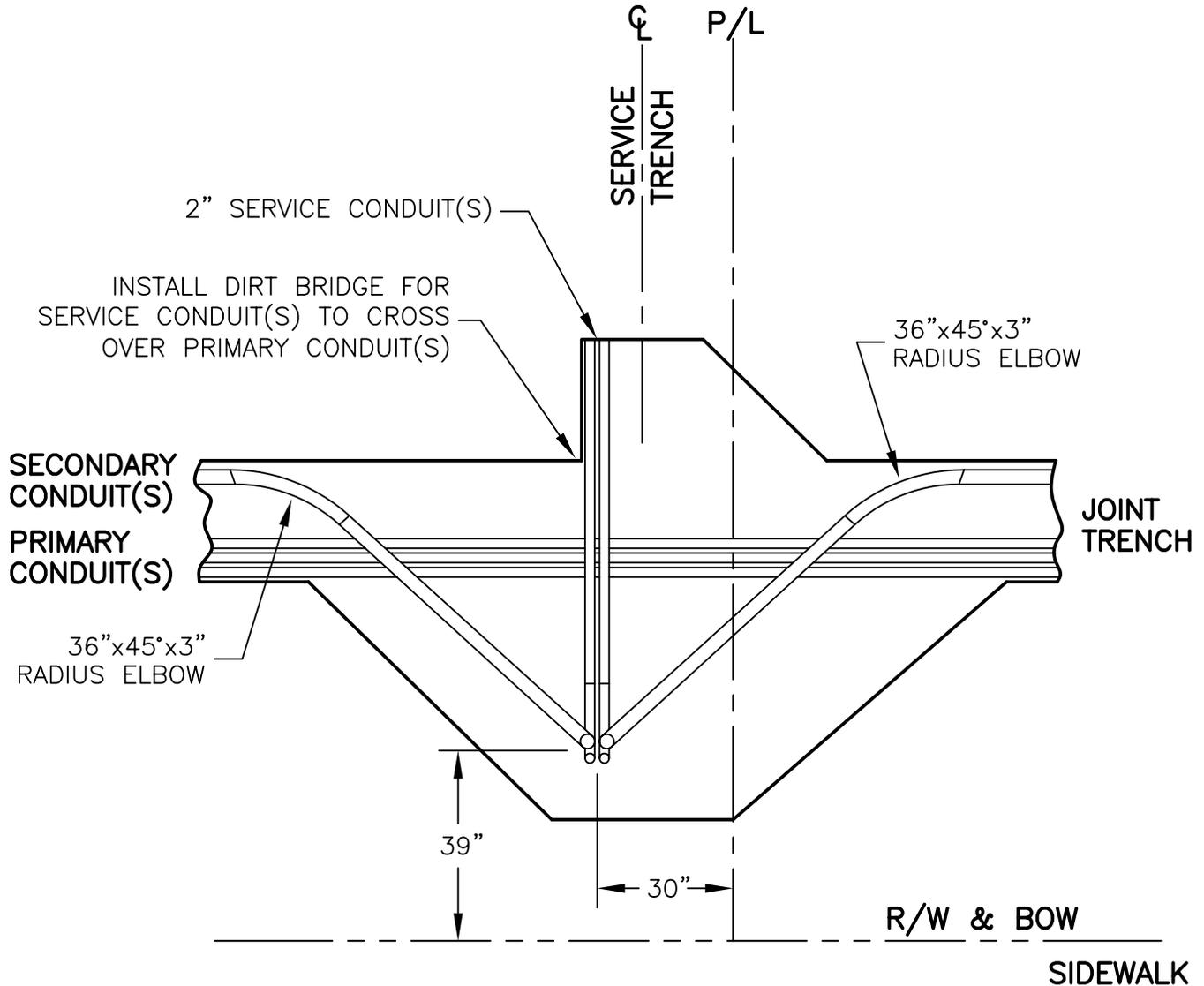
Drawing name: M:\DATA\CAD\Standards\UG\031\2105-2.dwg Plotted: Jun 02,2004 - 2:09pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT	CONSTRUCTION STANDARD					311 2105
	SECONDARY SERVICE BOX INSTALLATION DETAIL (OFF-SIDE)					
21OCT99	BA	DJC	<i>Ams</i>	<i>H. Haney</i>	SHEET 2 OF 2	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4	



Drawing name: M:\DATA\CAD\Standards\UGV0311\2501.dwg Plotted: Jun 02,2004 - 2:10pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD TYPICAL TRENCH DETAIL SIDEWALK WITH PARKWAY		
31MAY01	CW	DJC	<i>AMS</i>	<i>H. H. H. H.</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1
					311 2501

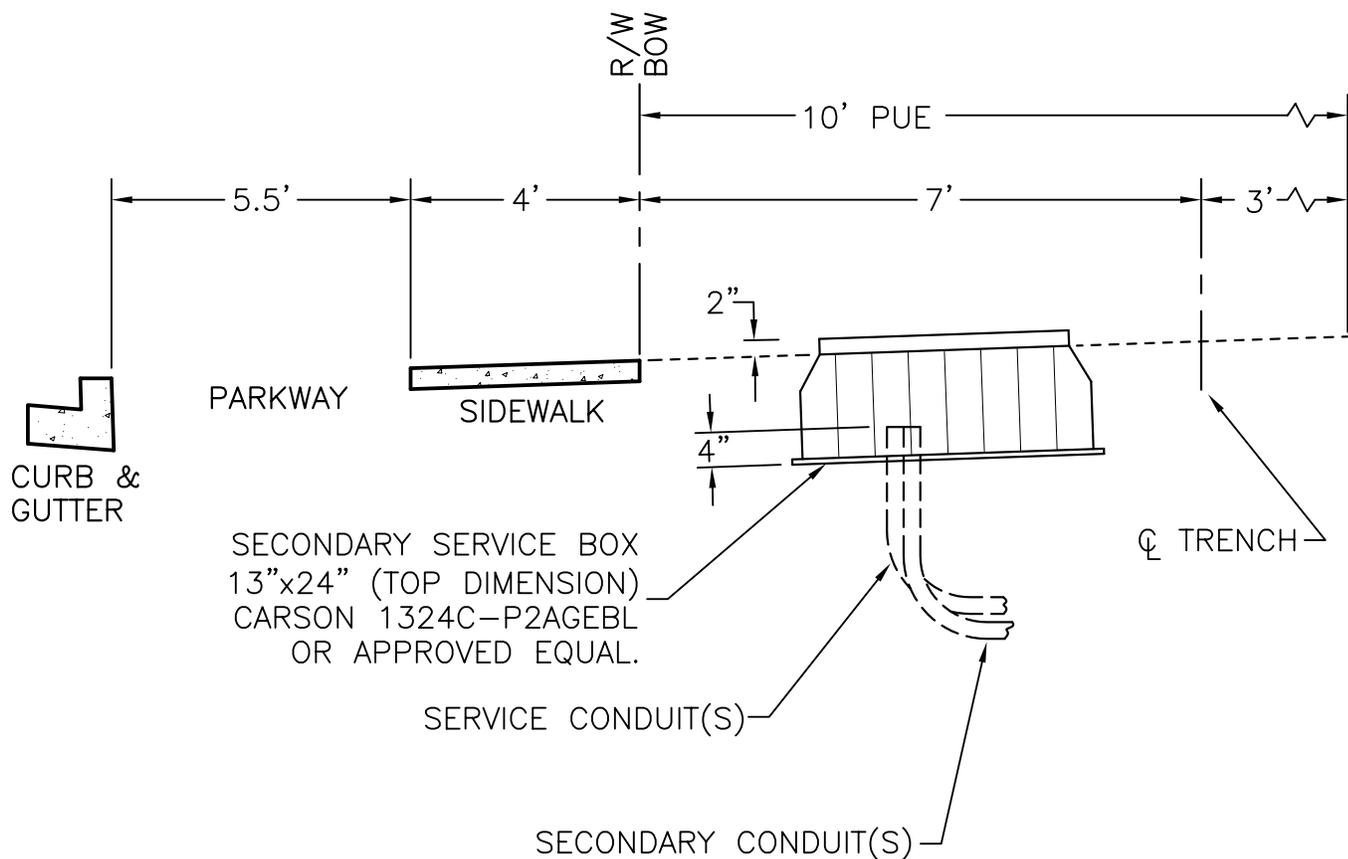


NOTE:

1. ALL 90° SECONDARY CONDUIT ELBOWS TO HAVE A 36 in. RADIUS.
2. ALL 90° SERVICE CONDUIT ELBOWS TO HAVE A MINIMUM 24 in. RADIUS.
3. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS (RRC-2(2"), RRC-3(3")) OR APPROVED EQUAL.

Drawing name: M:\DATA\CAD\Standards\UG\031\2504-2.dwg Plotted: Jun 02,2004 - 2:11pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD			
			SERVICE TRENCH DETAIL, SECONDARY SERVICE BOX (MAIN TRENCH SIDE) SIDEWALK WITH PARKWAY			
29MAY01	RT	DJC	<i>AMS</i>	<i>H. K...</i>	SHEET 2 OF 3	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	



NOTE:

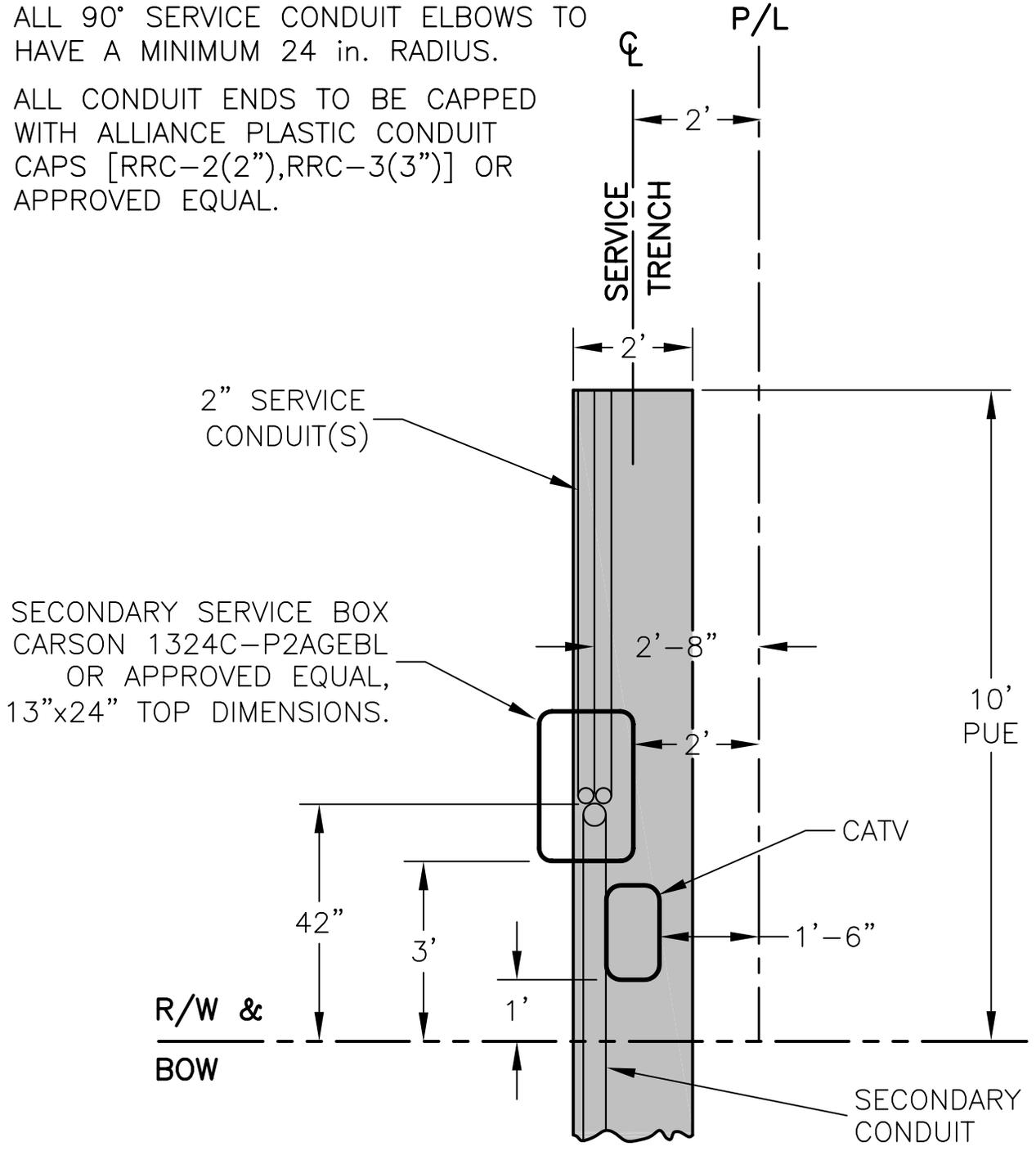
1. SECONDARY SERVICE BOX GRADE, FROM FRONT TO BACK, SHALL BE 2 in. ABOVE A LINE EXTENDING FROM THE TOP OF BACK OF SIDEWALK TO THE FINAL GRADE AT BACK OF THE PUE (SEE DRAWING) AND SHALL BE LEVEL SIDE TO SIDE.
2. SECONDARY SERVICE BOX LOCATIONS TO BE SPOTTED PER CITY OF LODI DRAWINGS, STANDARDS AND SPECIFICATIONS. STAKING WILL BE PROVIDED BY DEVELOPER.
3. HYDRO HAMMER IS NOT TO BE USED AROUND SUBSTRUCTURES.

Drawing name: M:\DATA\CAD\Standards\UG\031\2504-3.dwg Plotted: Jun 02,2004 - 2:11pm

			CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SERVICE TRENCH DETAIL, SECONDARY SERVICE BOX (MAIN TRENCH SIDE) SIDEWALK WITH PARKWAY	
29MAY01	RT	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 3 OF 3	311 2504	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3		

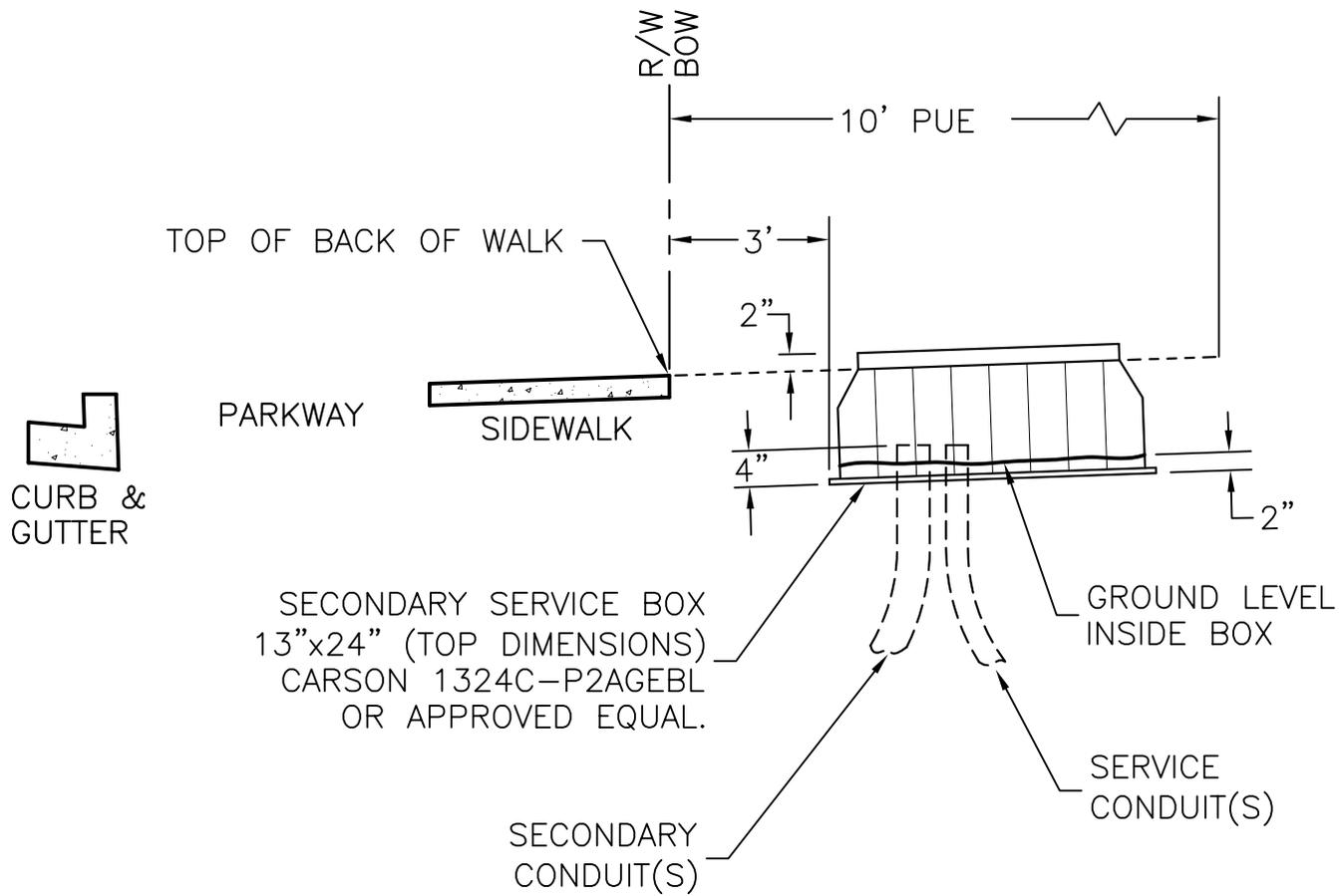
NOTE:

1. ALL 90° SECONDARY CONDUIT ELBOWS TO HAVE 36 in. RADIUS.
2. ALL 90° SERVICE CONDUIT ELBOWS TO HAVE A MINIMUM 24 in. RADIUS.
3. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS [RRC-2(2"),RRC-3(3")] OR APPROVED EQUAL.



Drawing name: M:\DATA\CAD\Standards\UG\031\2505-1.dwg Plotted: Jun 02,2004 - 2:12pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SERVICE TRENCH DETAIL (OFF-SIDE) SIDEWALK WITH PARKWAY			
29MAY01	RT	DJC	<i>AMS</i>	<i>H. Hanway</i>	SHEET 1 OF 2	311 2505
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	



NOTE:

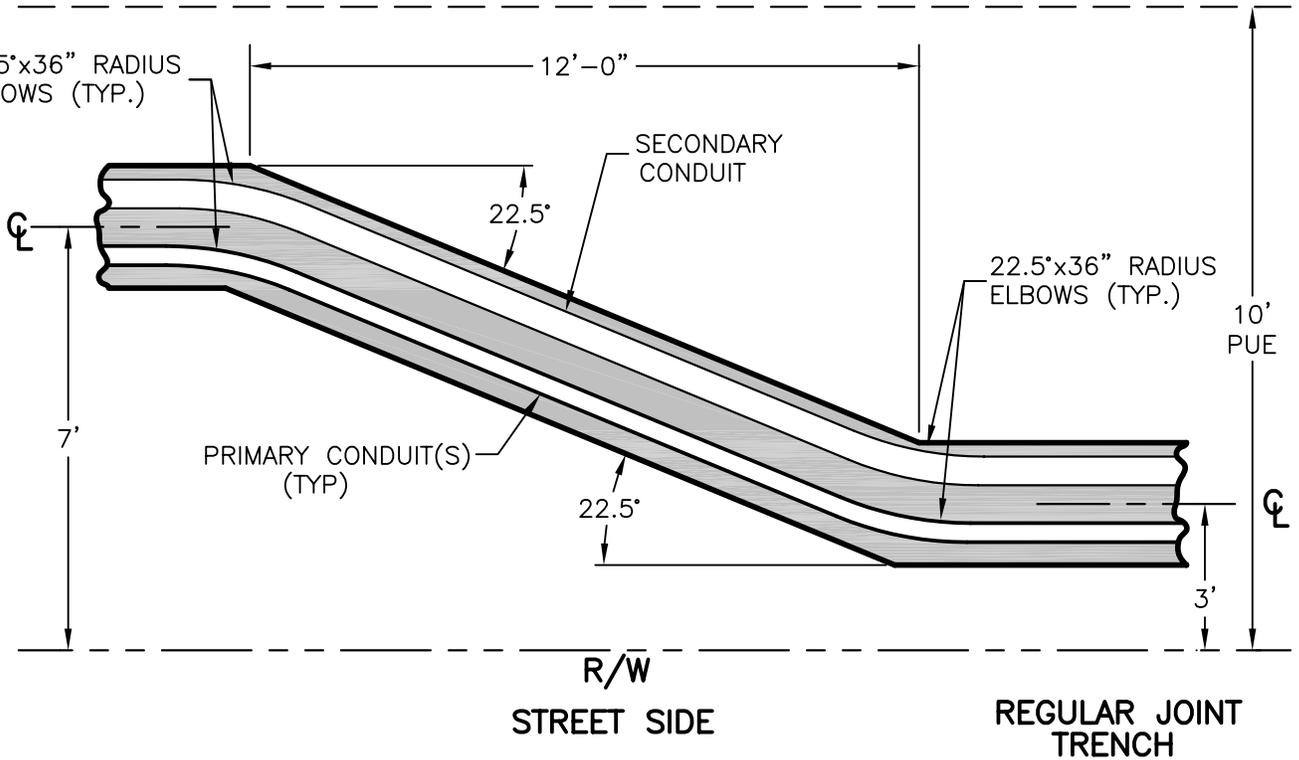
1. SECONDARY SERVICE BOX GRADE, FROM FRONT TO BACK, SHALL BE 2 in. ABOVE A FINAL LINE EXTENDING FROM THE TOP OF BACK OF WALK TO THE FINAL GRADE AT BACK OF THE PUE (SEE DRAWING) AND SHALL BE LEVEL SIDE TO SIDE.
2. SECONDARY SERVICE BOX LOCATIONS TO BE SPOTTED PER CITY OF LODI DRAWINGS, STANDARDS AND SPECIFICATIONS. STAKING WILL BE PROVIDED BY DEVELOPER.
3. HYDRO HAMMER IS NOT TO BE USED AROUND SUBSTRUCTURES.

Drawing name: M:\DATA\CAD\Standards\UG\0311\2505-2.dwg Plotted: Jun 02,2004 - 2:13pm

	CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SERVICE TRENCH DETAIL (OFF-SIDE) SIDEWALK WITH PARKWAY		
	29MAY01	RT	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 2 OF 2
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	311 2505

SIDEWALK w/ PARKWAY
JOINT TRENCH

PROPERTY SIDE
PUE



NOTE:

1. PRIMARY AND SECONDARY CONDUITS CHANGE RELATIVE POSITIONS IN TRENCH WHEN CHANGING FROM REGULAR JOINT TRENCH TO SIDEWALK WITH PARKWAY JOINT TRENCH.
2. SINGLE CONDUIT SHOWN FOR CLARITY ONLY.

Drawing name: M:\DATA\CAD\Standards\UG\031\2506.dwg Plotted: Jun 02,2004 - 2:13pm



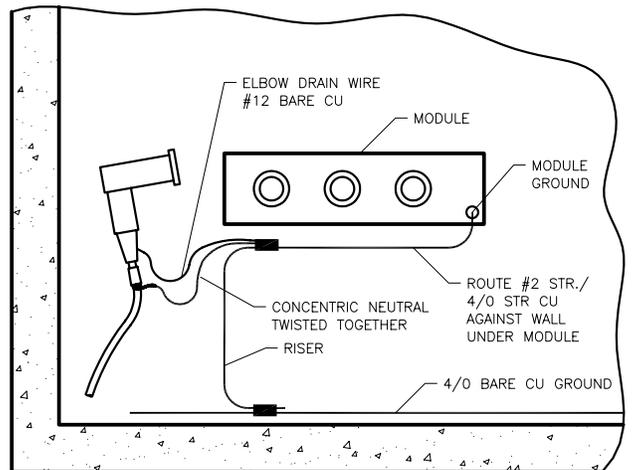
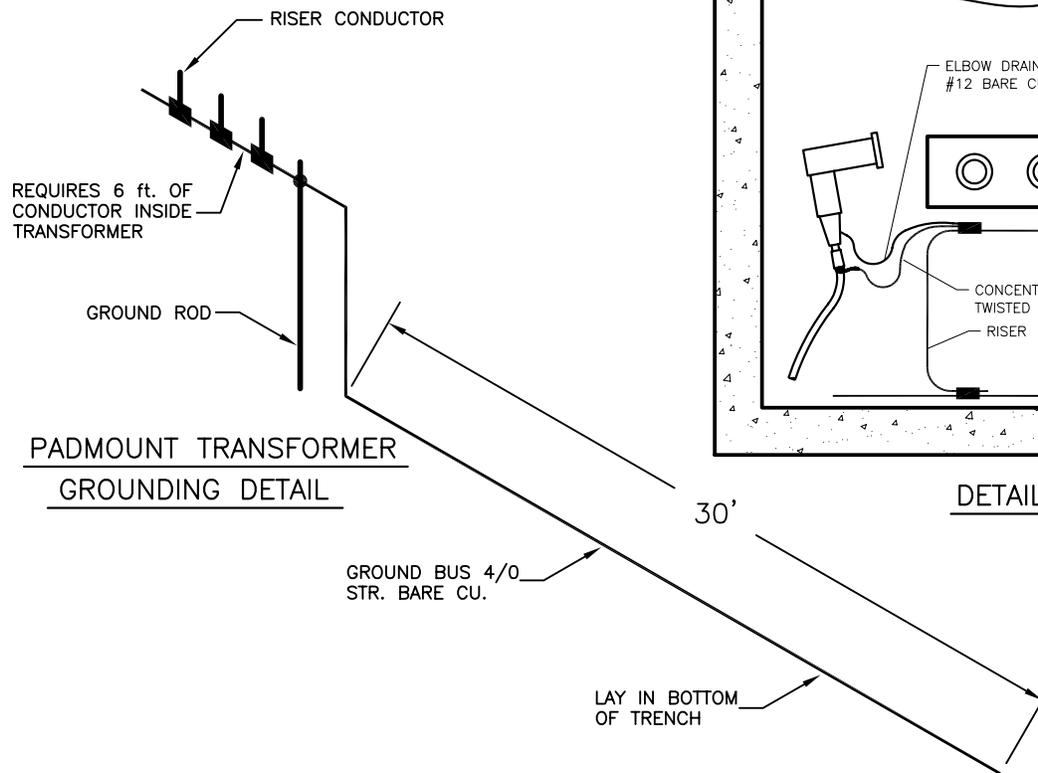
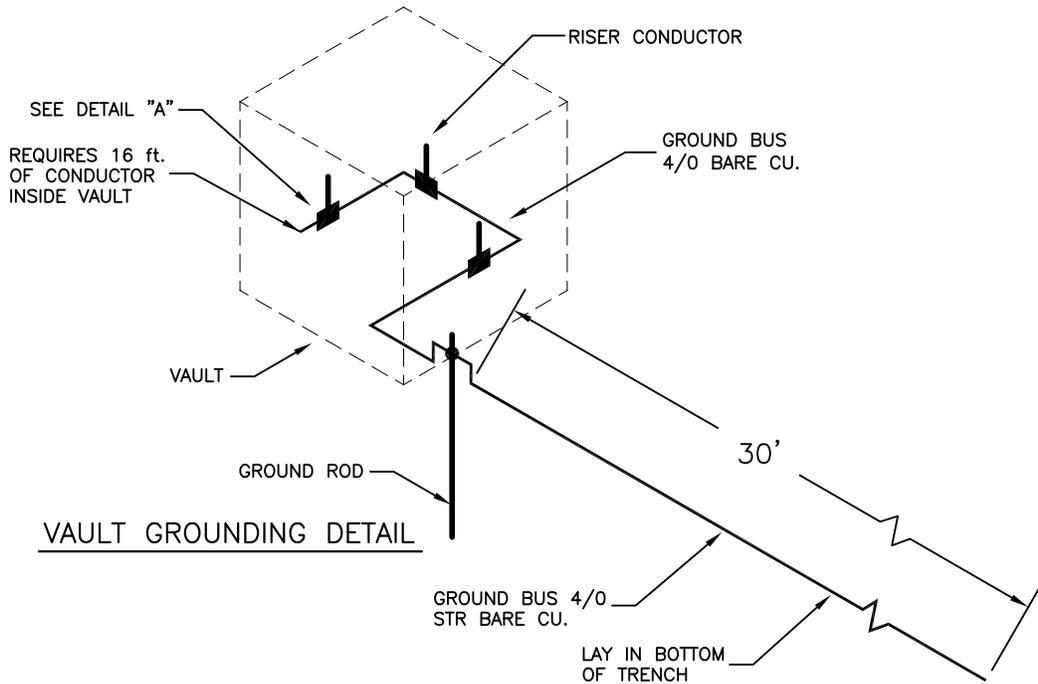
CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

TRENCH TRANSITION – REGULAR JOINT TRENCH
TO SIDEWALK WITH PARKWAY JOINT TRENCH

01JUN01	CW	DJC	AMS	<i>H. Hansen</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2

311 2506

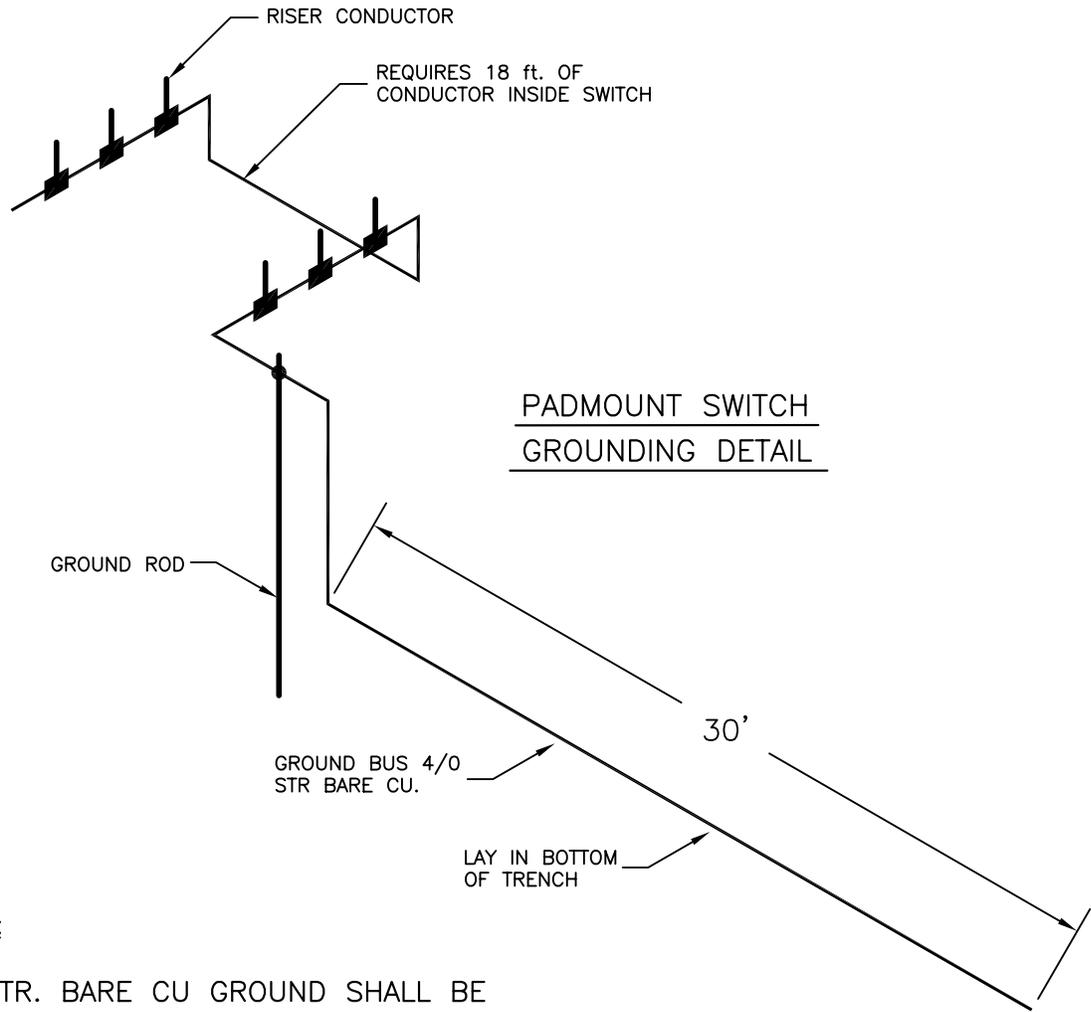


LEGEND:

- COPPER CRIMPIT
- GROUND ROD CLAMP

Drawing name: M:\DATA\CAD\Standards\UG\0314\1007-1.dwg Plotted: Jun 02,2004 - 2:14pm

			<p>CITY OF LODI ELECTRIC UTILITY DEPARTMENT</p>		<p>CONSTRUCTION STANDARD VAULT AND PADMOUNT EQUIPMENT GROUNDING</p>	
02APR98	TF	DJC	<i>AMS</i>	<i>H. Hanley</i>	SHEET 1 OF 2	314 1007
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3	

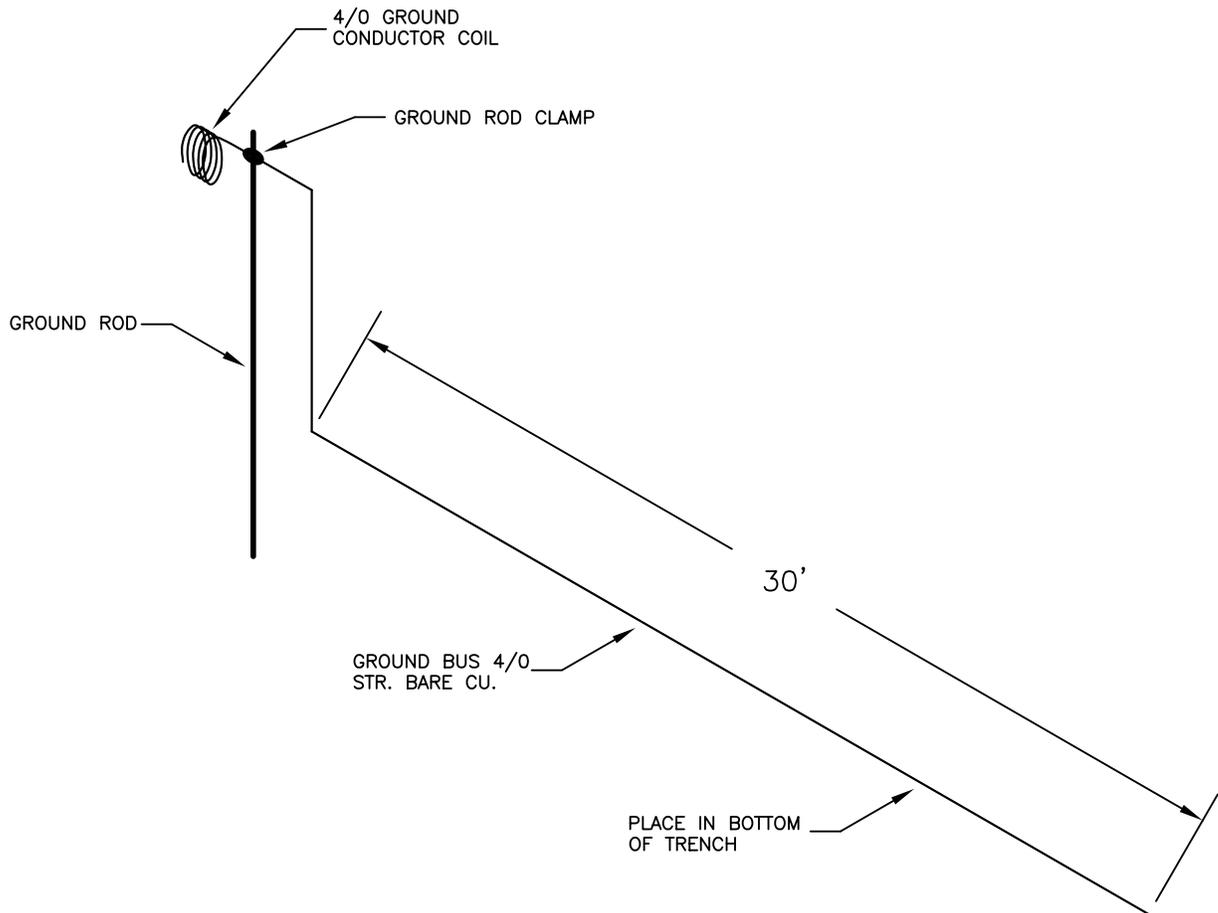


NOTES:

1. 4/0 STR. BARE CU GROUND SHALL BE ONE CONTINUOUS PIECE.
2. GROUND BUS SHALL BE INSTALLED AT THE BOTTOM OF THE TRENCH.
3. LAY 4/0 STR CU GROUND BUS IN BOTTOM OF VAULT PERIMETER AS SHOWN, SEE SHEET 1.
4. RISER CONDUCTOR SIZE TO BE:
 - a. 4/0 STR BARE CU FOR PRIMARY CABLE LARGER THAN 2/0.
 - b. #2 STR BARE CU FOR PRIMARY CABLE 2/0 AND SMALLER.
5. 4/0 STR BARE CU RISER CONDUCTOR TO BE TAPPED WITH #2 STR BARE CU TO GROUND THE 600 AMP MODULES.
6. GROUND BUS AND GROUND ROD INSTALLED AT TRANSFORMER SITES TO RISE IN THE SECONDARY PULL SECTION.
7. GROUND BUS AND GROUND ROD INSTALLED AT SWITCH SITES SHALL RISE IN THE PRIMARY PULL SECTION AT ONE SIDE OF THE SWITCH AND THEN THE GROUND BUS SHALL CONTINUE TO THE PRIMARY PULL SECTION AT THE OPPOSITE SIDE OF THE SWITCH.

Drawing name: M:\DATA\CAD\Standards\UG\0314\1007-2.dwg Plotted: Jun 02,2004 - 2:15pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD VAULT AND PADMOUNT EQUIPMENT GROUNDING			
02APR98	TF	DJC	<i>AMS</i>	<i>H. K. K. K.</i>	SHEET 2 OF 2	314 1007
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	



GROUNDING DETAIL

NOTE:

1. A COIL OF GROUND CONDUCTOR SHALL BE LEFT BEYOND THE GROUND ROD CLAMP ATTACHMENT. THE LENGTH OF GROUND CONDUCTOR NEEDED AT EACH TYPE OF EQUIPMENT LOCATION IS AS FOLLOWS:

MODULE ENCLOSURE	— 6 ft.
TRANSFORMER	— 6 ft.
VAULT	— 16 ft.
SWITCH	— 18 ft.

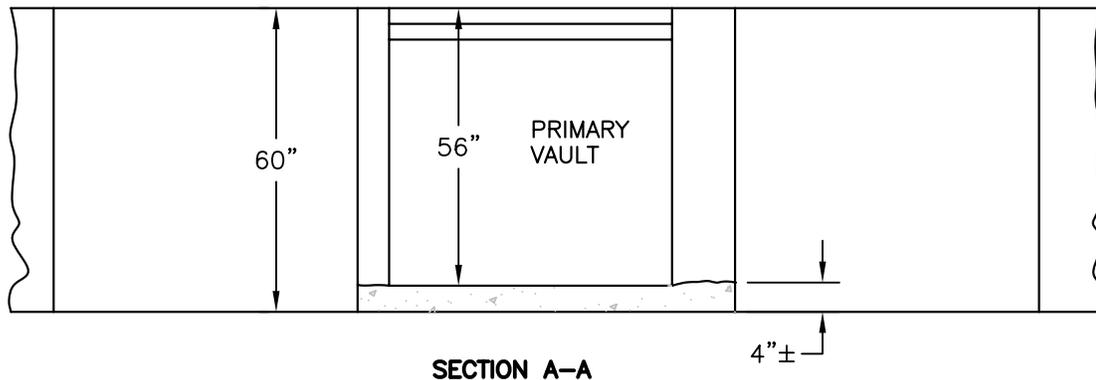
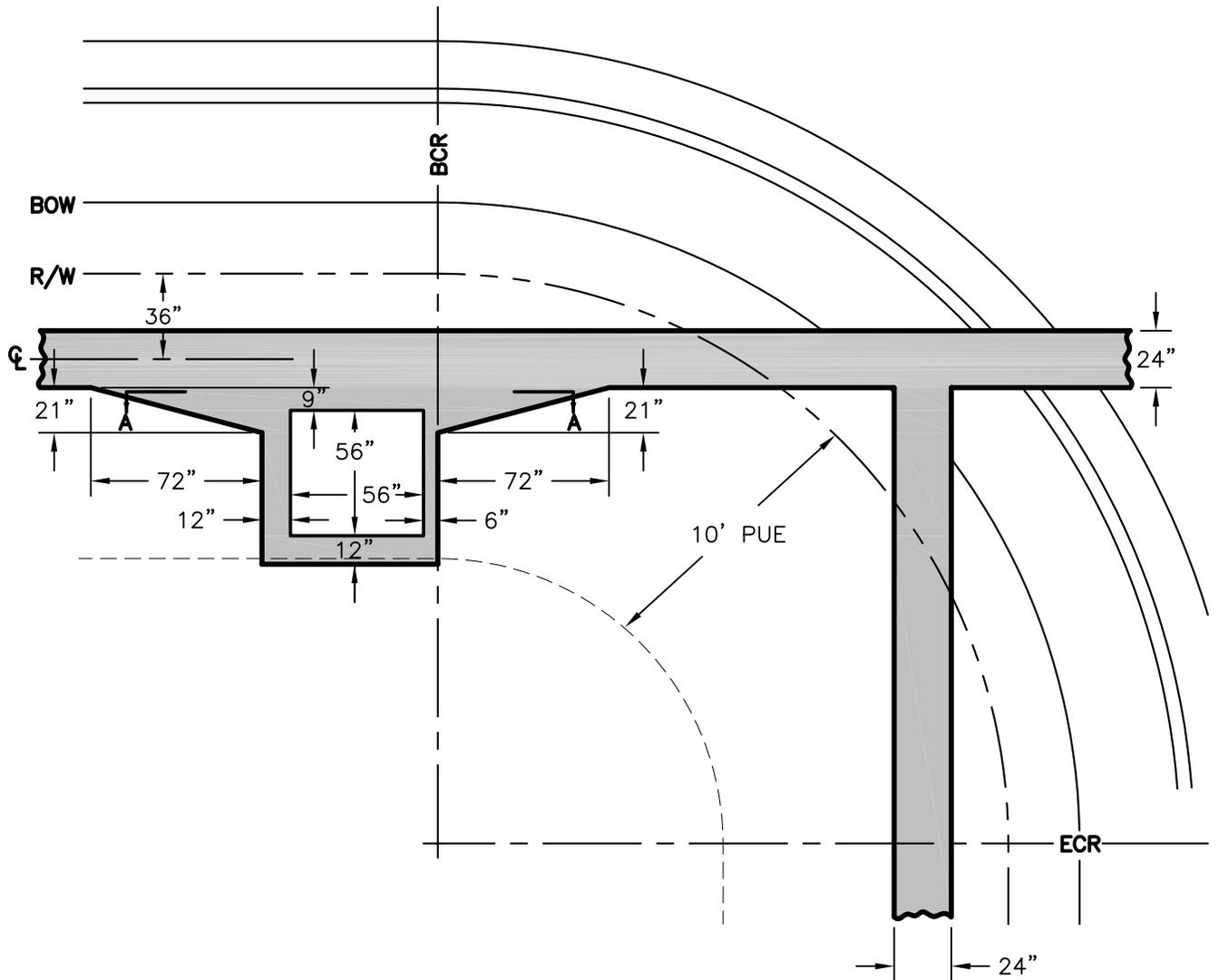
2. WHERE GROUND BUS IS TO BE INSTALLED AT PRIMARY VAULT LOCATIONS, THE GROUND ROD SHALL BE DRIVEN OUTSIDE OF THE PRIMARY VAULT. THE COIL OF GROUND CONDUCTOR SHALL BE PLACED INSIDE THE VAULT THROUGH A SEALED OPENING IN THE VAULT (SIDE).

3. THE GROUND ROD SHALL BE GALVANIZED STEEL OR COPPER CLAD STEEL NOT LESS THAN 5/8" IN DIAMETER AND 8 ft. IN LENGTH.

4. A GROUND ROD CLAMP SHALL BE USED TO CONNECT THE GROUND CONDUCTOR TO THE GROUND ROD. THE GROUND ROD CLAMP SHALL BE A 3/4", #8- 1/0 STR COPPER CLAMP, JOSLYN CAT. NO. J8493AB OR APPROVED EQUAL.

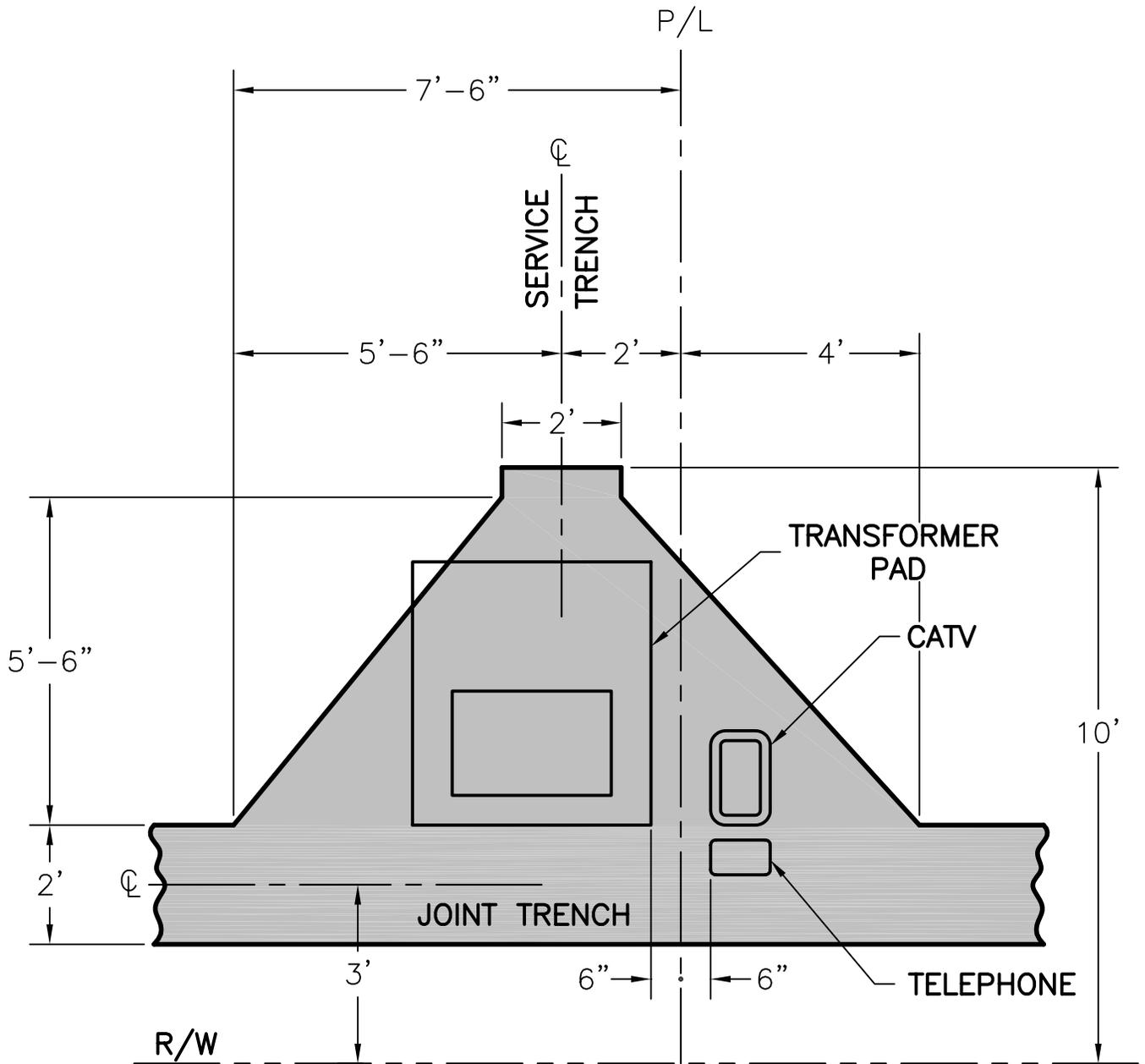
Drawing name: M:\DATA\CAD\Standards\UG\0314\1008.dwg Plotted: Jun 02,2004 - 2:15pm

CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD			
			PADMOUNT EQUIPMENT GROUNDING			
16APR02	CW	AMS	<i>Ams</i>	<i>H. Hanson</i>	SHEET 1 OF 1	314 1008
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	



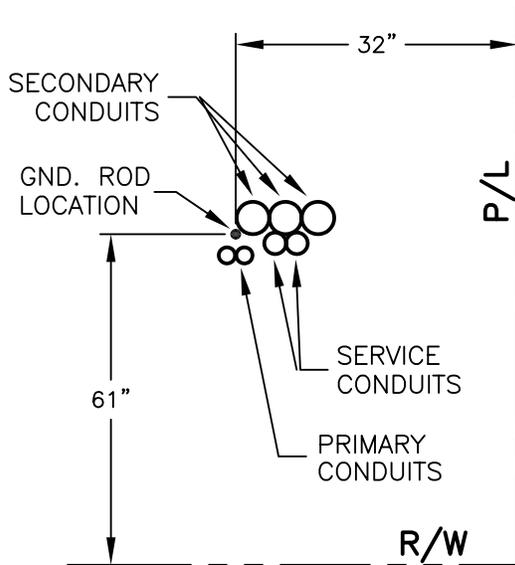
Drawing name: M:\DATA\CAD\Standards\UG\0317\2422.dwg Plotted: Jun 02,2004 - 2:16pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT		CONSTRUCTION STANDARD PRIMARY VAULT WITH RISER CORNER LOCATION INSTALLATION DETAIL			
23JUN97	BA	DJC	<i>AMS</i>	<i>H. H. H. H.</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4
					317 2422



Drawing name: M:\DATA\CAD\Standards\UG\0317\2426-1.dwg Plotted: Jun 02,2004 - 2:16pm

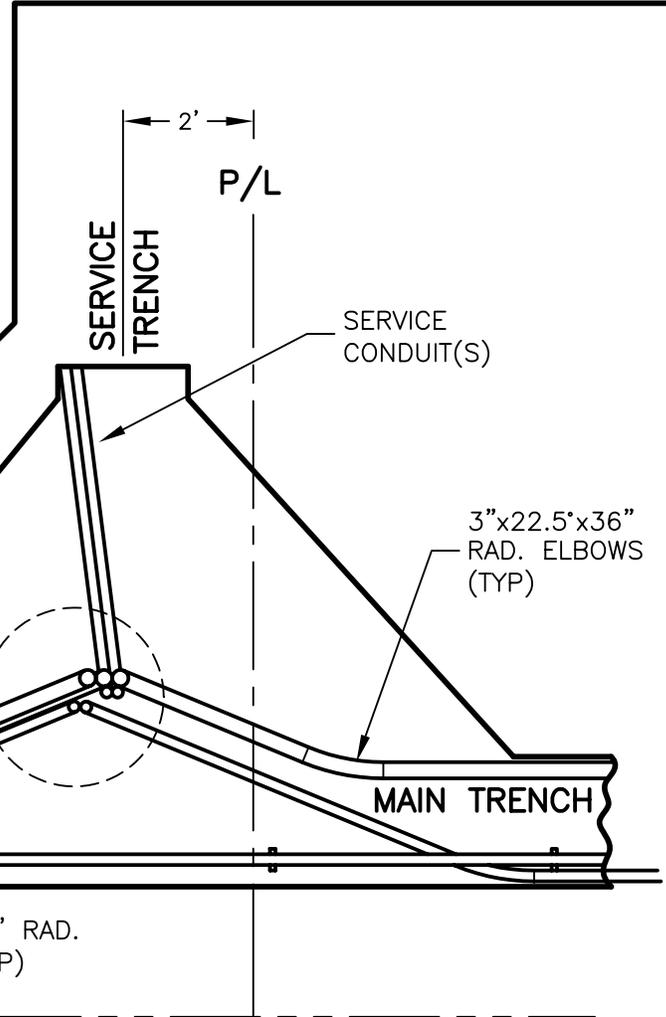
 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD TRANSFORMER LOCATION AND TRENCH DETAIL (MAIN TRENCH SIDE)			
29AUG96	BA	DJC	<i>AMS</i>	<i>H. K...</i>	SHEET 1 OF 5	317 2426
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3	



NOTE:

ADJUST PRIMARY CONDUIT DISTANCE TO R/W IN ACCORDANCE WITH LAY OF SECONDARY CONDUIT(S).

DETAIL



USE 4" BASE SPACER(S) WHEN IT IS NECESSARY TO BRIDGE PRIMARY CONDUITS OVER EACH OTHER. SPACERS TO BE A MAXIMUM OF 4 ft. APART.

NOTE:

1. ALL 90° PRIMARY AND SECONDARY CONDUIT ELBOWS SHALL HAVE 36 in. RADIUS.
2. ALL 90° SERVICE CONDUIT ELBOWS SHALL HAVE 24 in. RADIUS.
3. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS [RRC-2(2"),RRC-3(3")] OR APPROVED EQUAL.
4. INSTALL TRANSFORMER GROUND PER 314 1007. PROVIDE A GROUND WIRE TAIL ABOVE GROUND LEVEL A MINIMUM OF 4 ft. LONG.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2426-2.dwg Plotted: Jun 02,2004 - 2:17pm



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

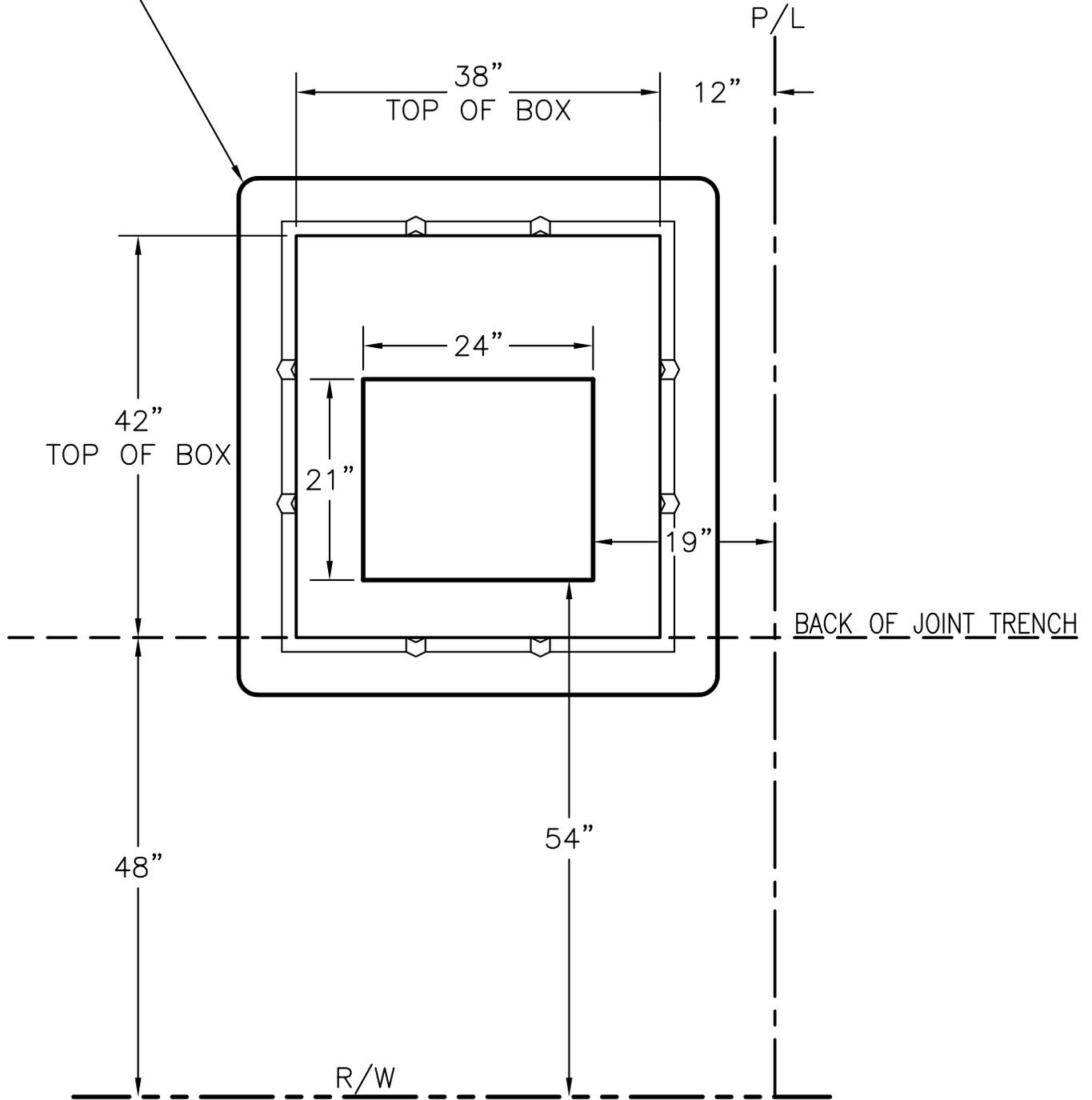
CONSTRUCTION STANDARD

**TRANSFORMER LOCATION AND CONDUIT
(MAIN TRENCH SIDE)**

21OCT99	BA	DJC	<i>Ams</i>	<i>H. Hansen</i>	SHEET 2 OF 5
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 7

317 2426

PROGLASS, INC. FIBERGLASS TRANSFORMER
 BOX PAD, TX423820-T1 OR APPROVED EQUAL



Drawing name: M:\DATA\CAD\Standards\UG\0317\2426-3.dwg Plotted: Jun 02,2004 - 2:18pm



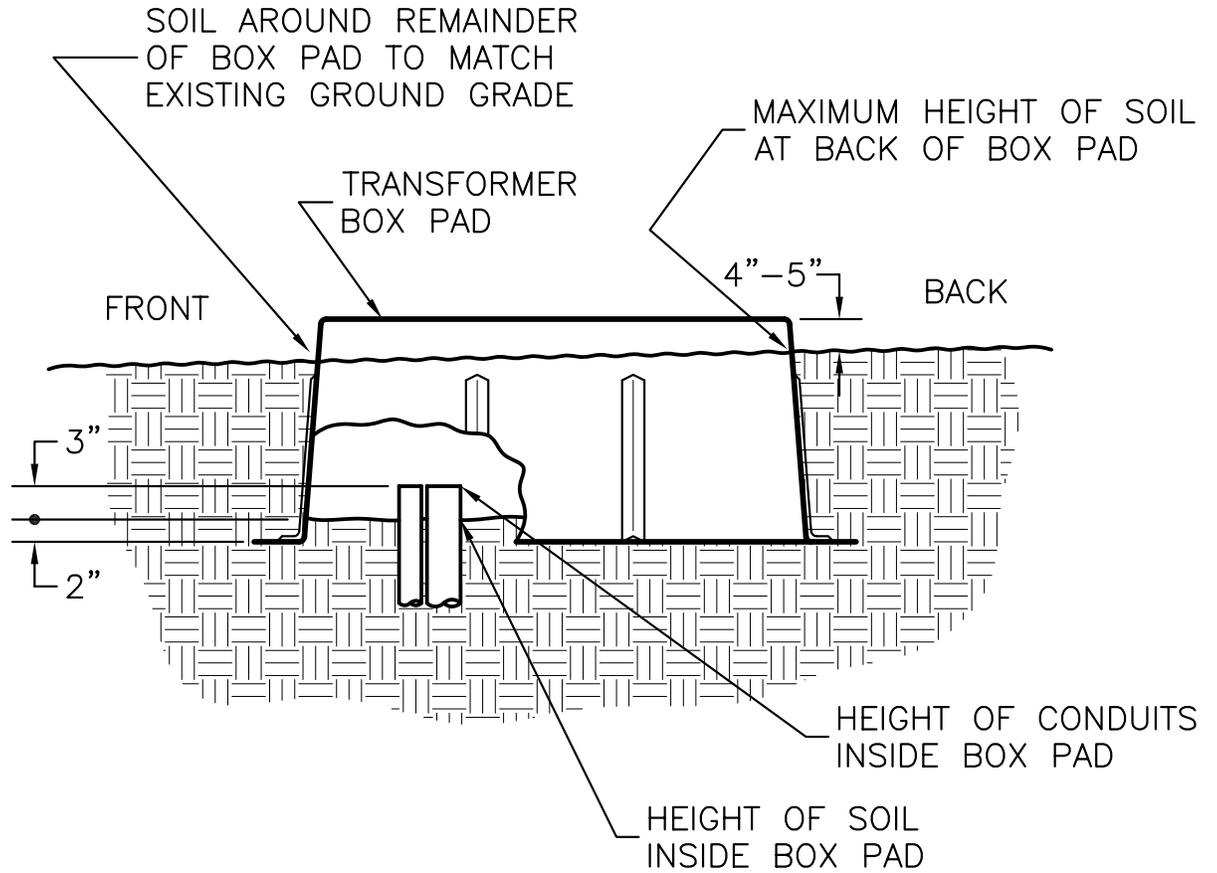
CITY OF LODI
 ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

**FIBERGLASS TRANSFORMER BOX PAD
 CONDUIT AND BOX PAD LOCATION**

22AUG96	BA	DJC	<i>Ams</i>	<i>H. Hansen</i>	SHEET 3 OF 5
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2

317 2426



NOTES:

1. TRANSFORMER BOX PAD SHALL BE LEVEL.
2. TRANSFORMER BOX PAD SITE TO BE COMPACTED TO 90% COMPACTION (HYDRO-HAMMER IS NOT TO BE USED AROUND BOX PAD).

Drawing name: M:\DATA\CAD\Standards\UG\0317\2426-4.dwg Plotted: Jun 02,2004 - 2:18pm



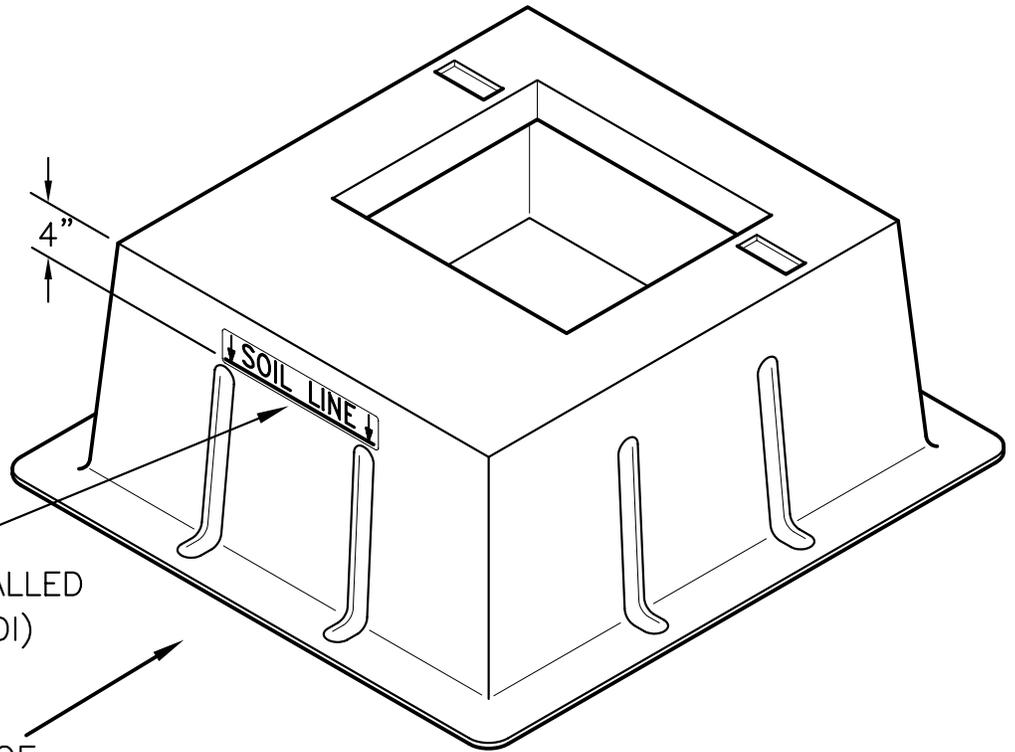
CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

**FIBERGLASS TRANSFORMER BOX PAD
CONDUIT AND BOX PAD INSTALLATION DETAIL**

21OCT99	BA	DJC	<i>Ams</i>	<i>H. K...</i>	SHEET 4 OF 5
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3

317 2426



DECAL
(PROVIDED & INSTALLED
BY CITY OF LODI)

REAR OF
BOX PAD

Drawing name: M:\DATA\CAD\Standards\UG\0317\2426-5.dwg Plotted: Jun 02,2004 - 2:19pm



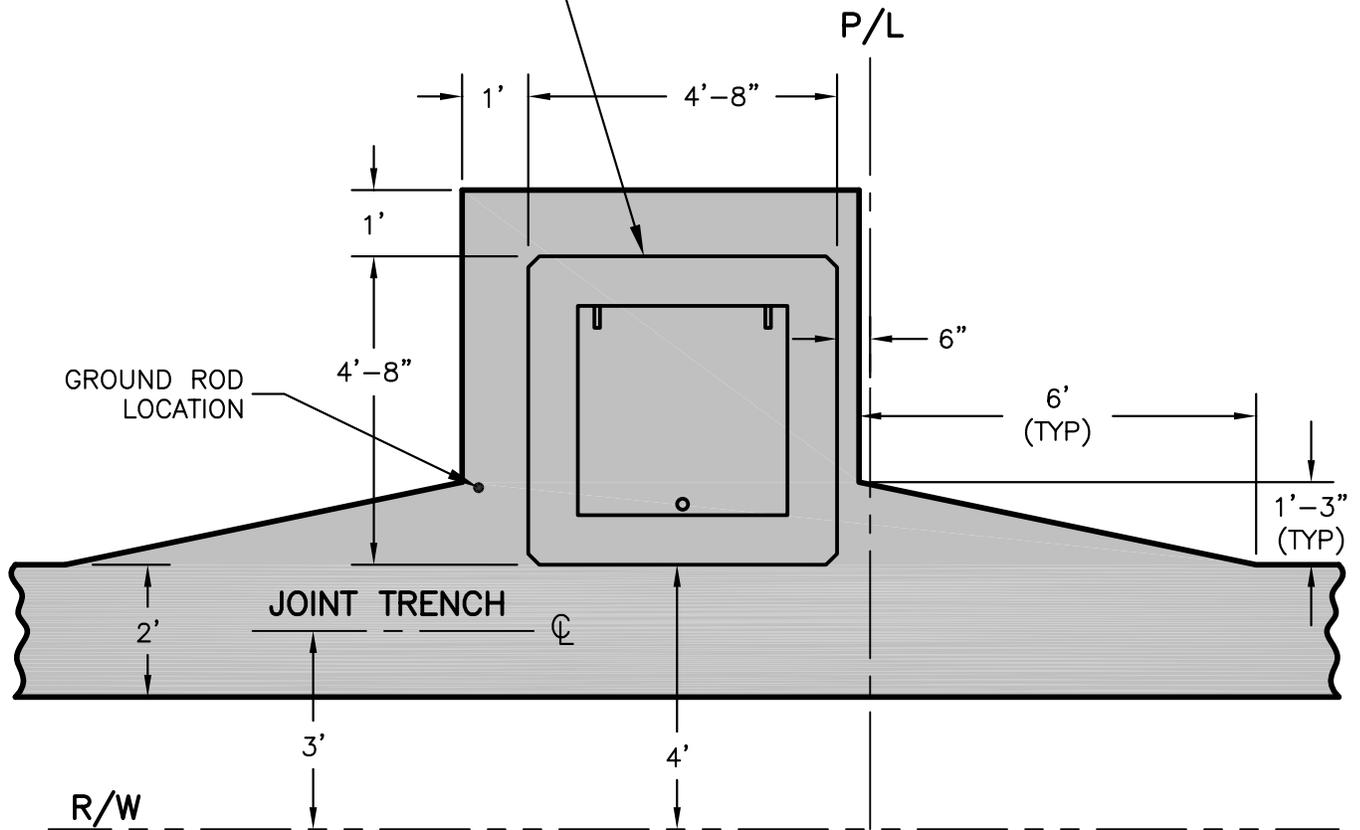
CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD
TRANSFORMER BOX PAD
MARKING DETAIL

21OCT99	BA	AMS	<i>Ams</i>	<i>H. Hanley</i>	SHEET 5 OF 5
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2

317 2426

PRIMARY JUNCTION BOX UTILITY VAULT CO. 504-LA,
 50"x50"x36" I.D. VAULT WITH 6" EXTENSION RING
 AND NO. 55-332-P COVER OR APPROVED EQUAL.

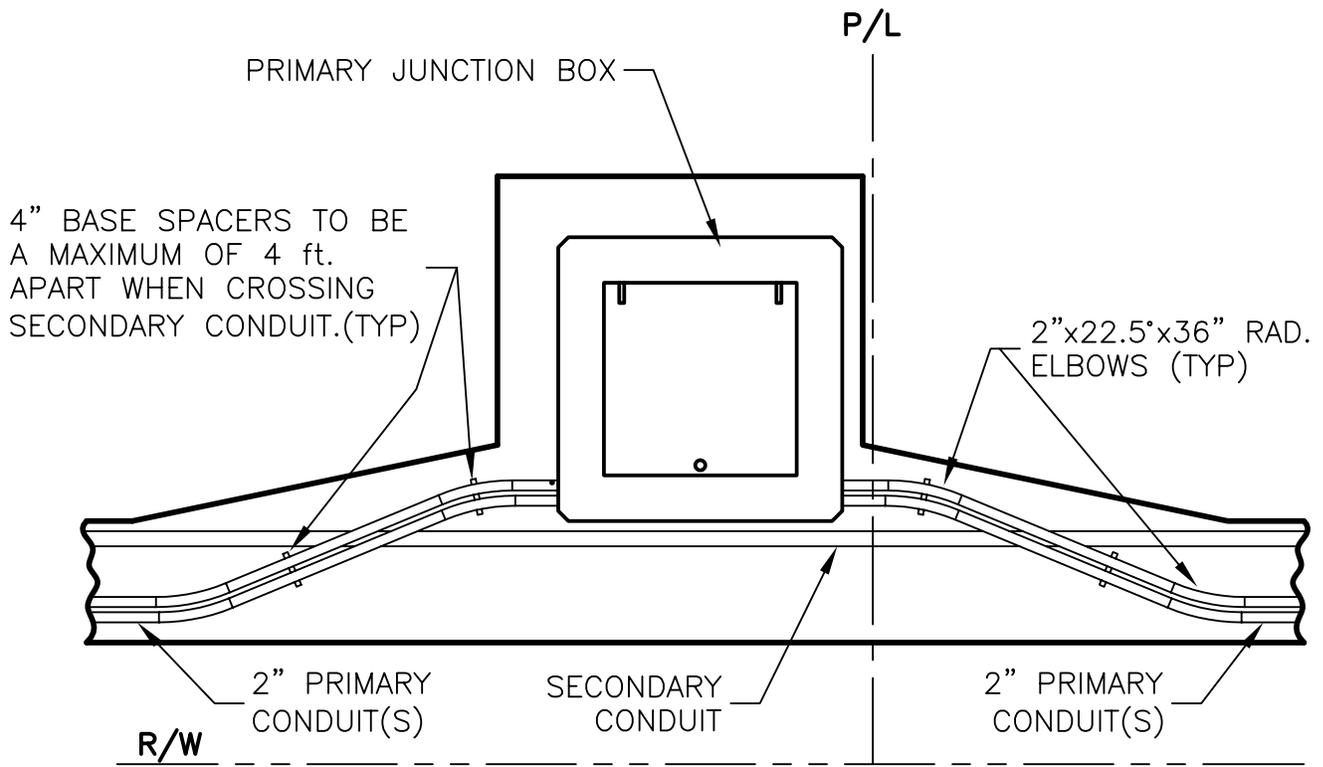


NOTE:

1. INSTALL VAULT GROUND PER 314 1007.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2427-1.dwg Plotted: Jun 02,2004 - 2:19pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD PRIMARY JUNCTION BOX, MAIN TRENCH DETAIL (LOCATED ON PROPERTY LINE)		
22OCT99	BA	DJC	<i>Ams</i>	<i>H. H. H.</i>	SHEET 1 OF 4
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3
					317 2427



4" BASE SPACERS TO BE A MAXIMUM OF 4 ft. APART WHEN CROSSING SECONDARY CONDUIT.(TYP)

2"x22.5"x36" RAD. ELBOWS (TYP)

R/W 2" PRIMARY CONDUIT(S)

SECONDARY CONDUIT

2" PRIMARY CONDUIT(S)

NOTE:

1. CONDUIT(S) SHALL ENTER THE PRIMARY JUNCTION BOX 90° TO THE OUTSIDE WALL OF THE BOX.

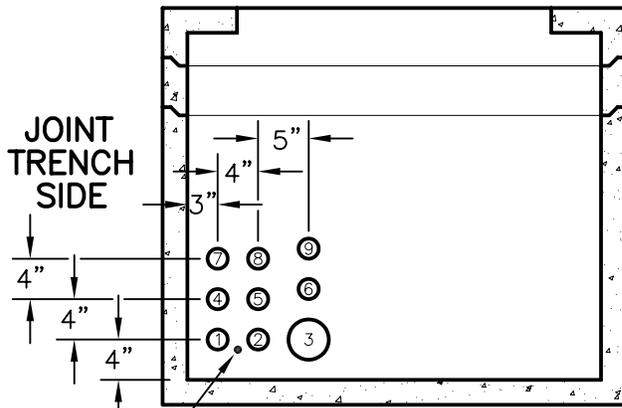
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CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

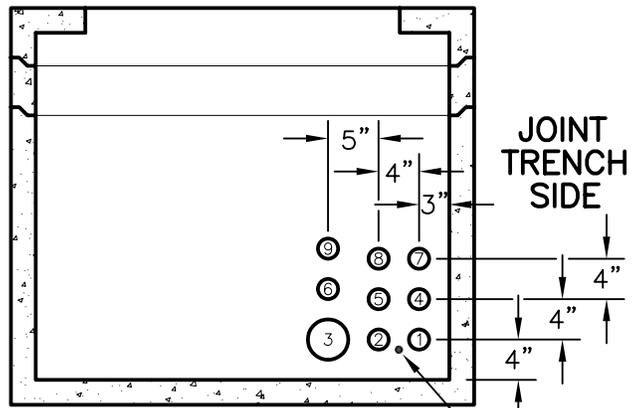
CONSTRUCTION STANDARD
**PRIMARY JUNCTION BOX,
CONDUIT INSTALLATION DETAIL**

29AUG96	BA	DJC	<i>Amis</i>	<i>H. Hansen</i>	SHEET 2 OF 4	317 2427
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	



INSIDE WALL OF VAULT
LEFT-FRONT CORNER

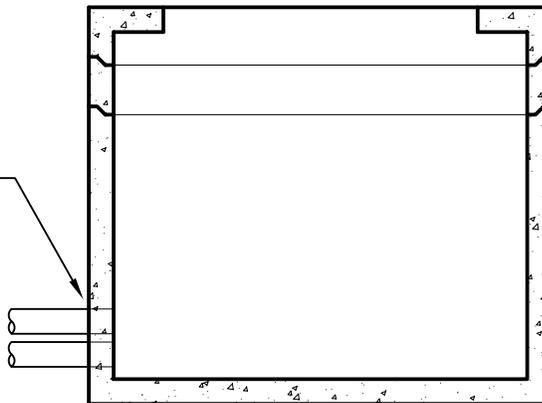
GROUND CABLE
ENTRY POINT



INSIDE WALL OF VAULT
RIGHT-FRONT CORNER

GROUND CABLE
ENTRY POINT

SEAL CONDUITS WITH NON SHRINK
GROUT (SMOOTH FINISH) INSIDE
AND OUTSIDE OF VAULT.



NOTE:

1. USE CONDUIT LOCATIONS IN NUMERICAL ORDER (DEPENDING ON NUMBER OF CONDUITS REQUIRED).
2. CONDUITS SHALL ENTER VAULT IN CORNER CLOSEST TO THE JOINT TRENCH.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2427-3.dwg Plotted: Jun 02,2004 - 2:21pm

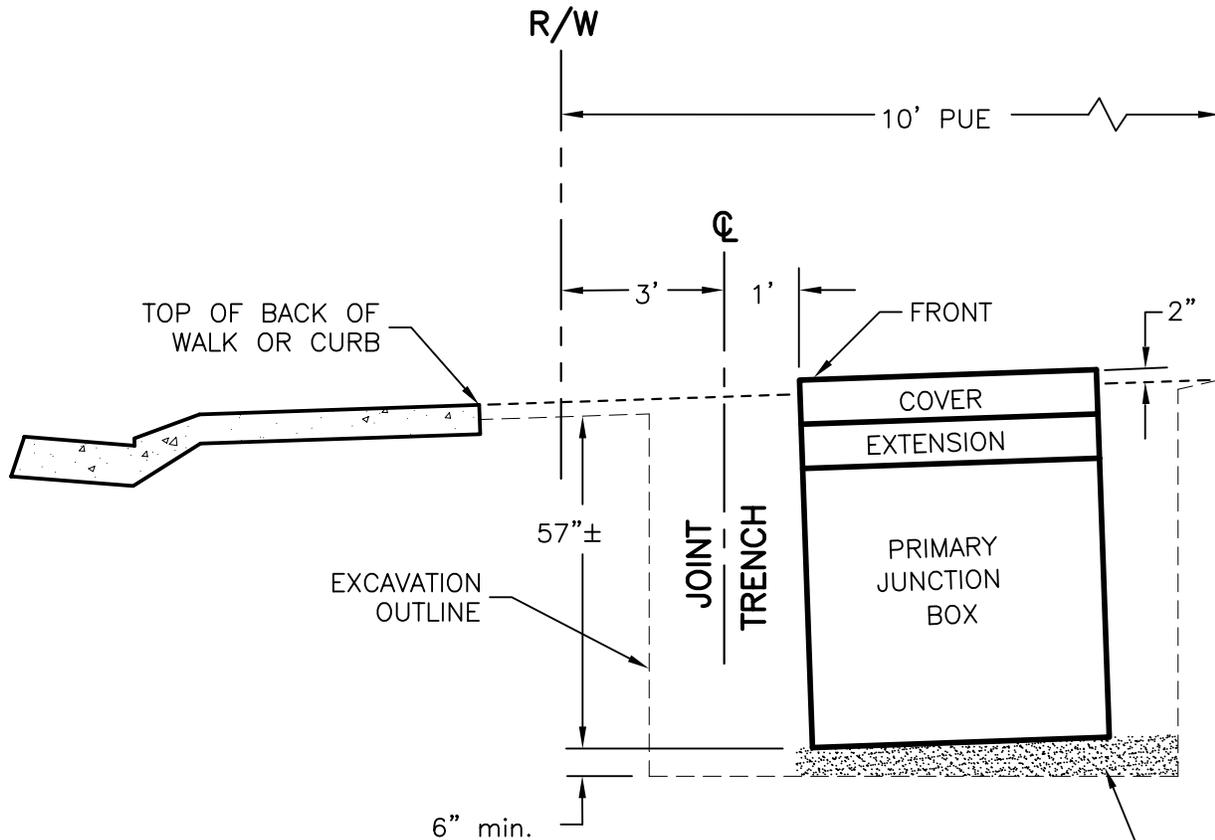


CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD
**PRIMARY JUNCTION BOX,
CONDUIT INSTALLATION DETAIL**

03SEP96	BA	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 3 OF 4
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3

317 2427



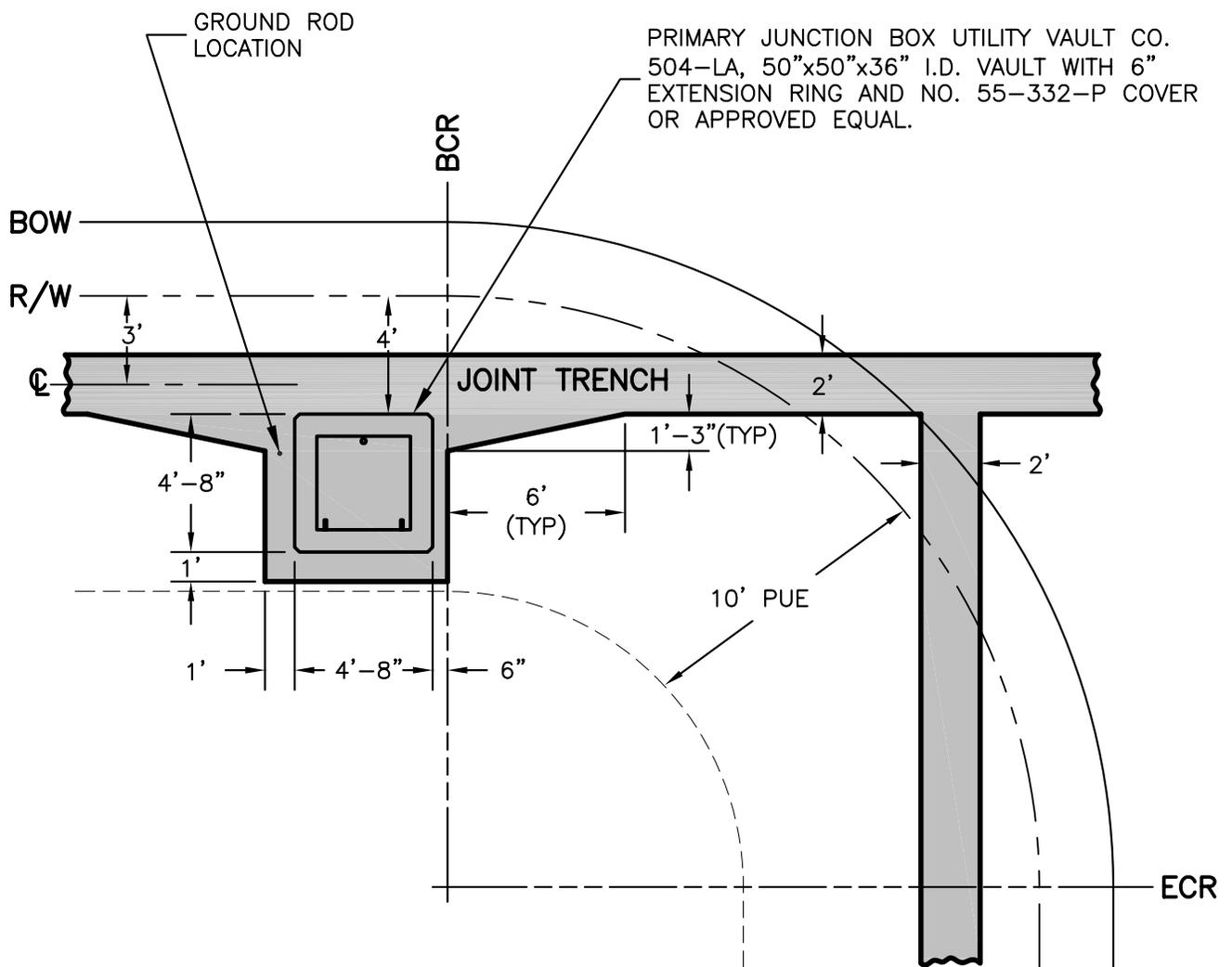
CRUSHED ROCK PER ASTM C38 GRAD.
#67 (3/4" TO NO. 4 WELL GRADED).

NOTE:

1. PRIMARY JUNCTION BOX, EXTENSION AND COVER SHALL BE PER CITY OF LODI SPECIFICATION.
2. PRIMARY JUNCTION BOX GRADE, FROM FRONT TO BACK, SHALL BE 2 in. ABOVE A LINE EXTENDING FROM THE TOP OF BACK OF CURB OR SIDEWALK TO THE FINAL GRADE AT THE BACK OF THE PUE (SEE DRAWING) AND SHALL BE LEVEL SIDE TO SIDE.
3. BOTTOM OF PRIMARY JUNCTION BOX EXCAVATION TO BE COMPACTED TO 90% COMPACTION PRIOR TO INSTALLATION OF DRAIN ROCK AND BOX. CITY OF LODI, PUBLIC WORKS DEPARTMENT, TO PROVIDE COMPACTION TESTS. CONTACT ELECTRIC UTILITY DEPARTMENT AT (209) 333-6817 FOR COORDINATION OF COMPACTION TESTING.
4. ALL VAULTS TO BE SPOTTED PER CITY OF LODI DRAWINGS, STANDARDS AND SPECIFICATIONS. STAKING WILL BE PROVIDED BY DEVELOPER.
5. HYDRO HAMMER IS NOT TO BE USED AROUND SUBSTRUCTURES. CITY OF LODI INSPECTOR TO APPROVE EACH VAULT PRIOR TO DEVELOPER COMPLETING PROJECT.
6. COVER TO BE SET FOR LID TO OPEN FROM THE FRONT (STREET SIDE).
7. ASPHALTIC VAULT SEALANT TO BE INSTALLED BETWEEN THE JUNCTION BOX COVER AND THE EXTENSION RING AND BETWEEN THE EXTENSION RING AND THE JUNCTION BOX.
8. INSTALL GROUND IN JUNCTION BOX PER 314 1007. GROUND WIRE TAIL IN VAULT SHALL BE A MINIMUM OF 16 ft. LONG.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2427-4.dwg Plotted: Jun 02,2004 - 2:21pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD PRIMARY JUNCTION BOX INSTALLATION DETAIL			
21OCT99	BA	DJC	<i>AMS</i>	<i>H. K. ...</i>	SHEET 4 OF 4	317 2427
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	



NOTE:

1. INSTALL VAULT GROUND PER 314 1007.
2. SEE 317 2427 SHEETS 2, 3 & 4 FOR JUNCTION BOX AND CONDUIT INSTALLATION.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2428.dwg Plotted: Jun 02,2004 - 2:22pm

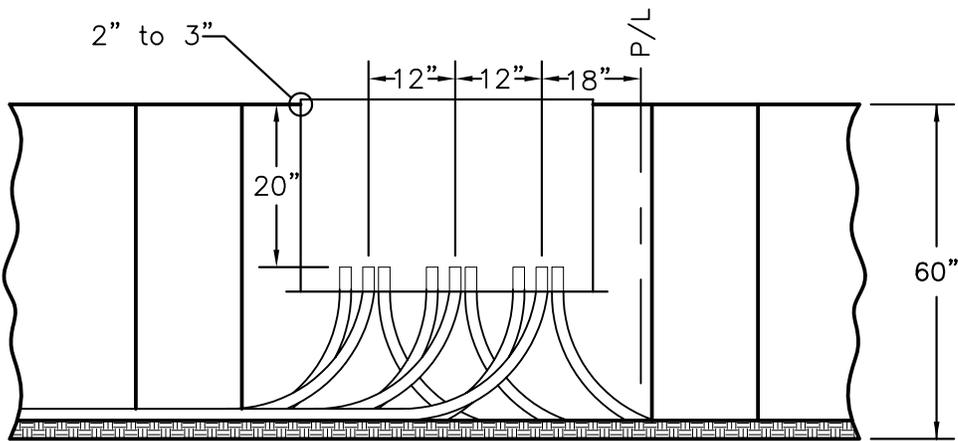
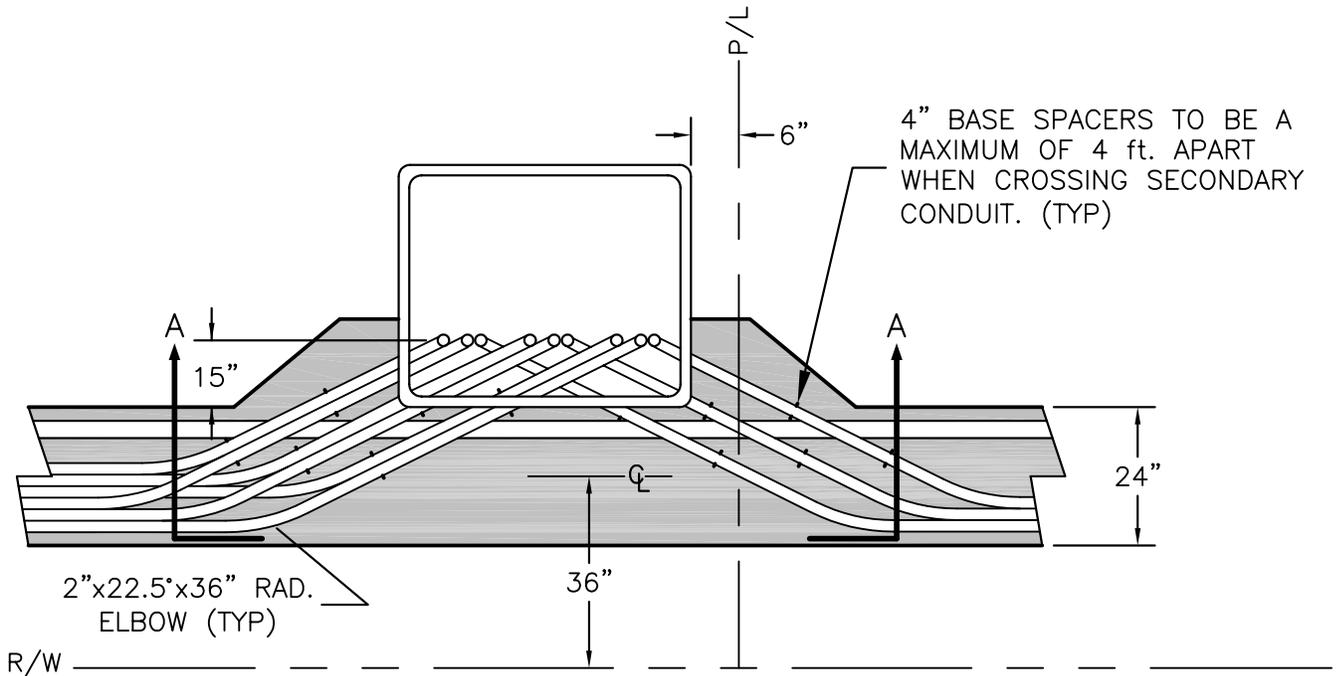


CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD
**PRIMARY JUNCTION BOX
CORNER LOCATION DETAIL**

21OCT99	BA	DJC	AMS	<i>H. K. ...</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 6

317 2428

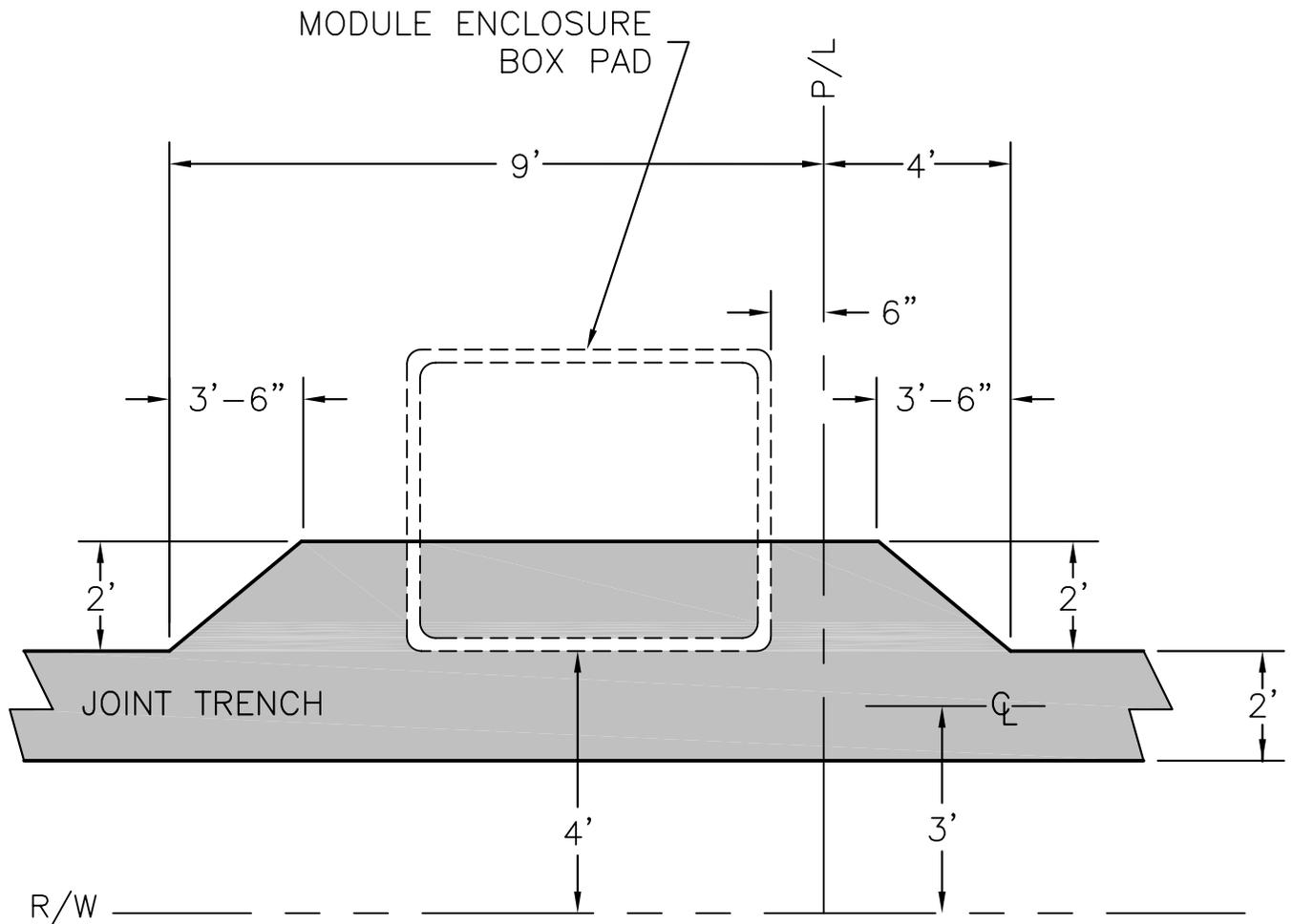


SECTION A-A

1. WHERE MODULE ENCLOSURE IS INSTALLED IN A PLANTER AREA IT SHALL BE SET FLUSH AND LEVEL WITH ADJACENT CURBING UNLESS OTHERWISE NOTED ON PLANS.
2. WHERE MODULE ENCLOSURE IS INSTALLED IN A LANDSCAPED AREA IT SHALL BE INSTALLED LEVEL AND 2 in. ABOVE ADJACENT GROUND LEVEL UNLESS OTHERWISE NOTED ON PLANS.
3. INSTALL GROUND WIRE AND ASSOCIATED EQUIPMENT AT MODULE ENCLOSURE PER 314 1007. GROUND WIRE TAIL IN MODULE ENCLOSURE SHALL BE A MINIMUM OF 6 ft. LONG.
4. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS [RRC-2(2"),RRC-4(4")] OR APPROVED EQUAL.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2429_1.dwg Plotted: Jun 02,2004 - 2:23pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD MODULE ENCLOSURE INSTALLATION DETAIL			
01APR99	TF	JVJ	<i>AMS</i>	<i>H. K. K...</i>	SHEET 1 OF 2	317 2429
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4	



Drawing name: M:\DATA\CAD\Standards\UG\0317\2429_2.dwg Plotted: Jun 02,2004 - 2:23pm



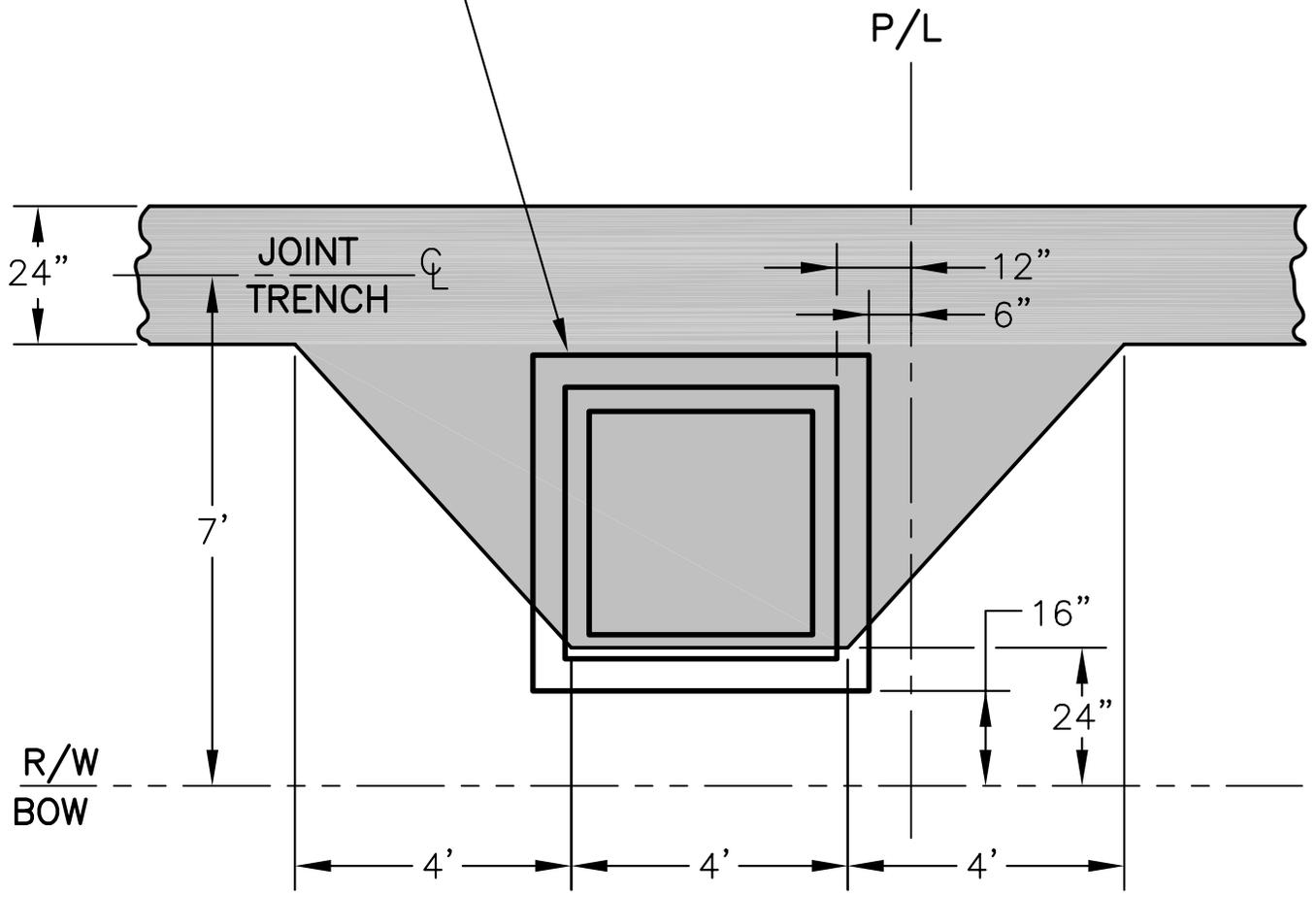
CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD
MODULE ENCLOSURE
TRENCH DETAIL

01APR99	TF	JVJ	AMS	<i>H. K. K...</i>	SHEET 2 OF 2
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2

317 2429

PROGLASS MODULE ENCLOSURE BOX PAD
 TX484232 WITH 38"x32" OPENING OR
 APPROVED EQUAL



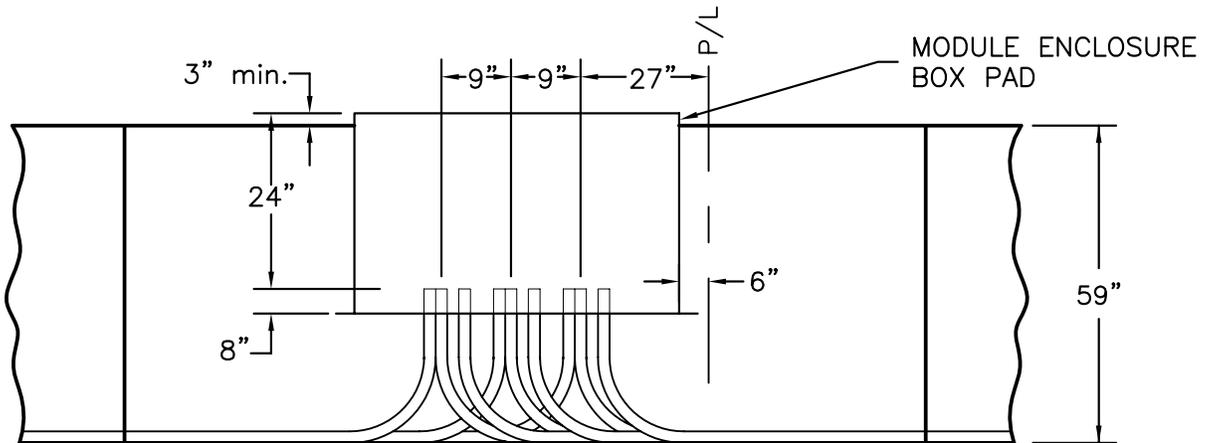
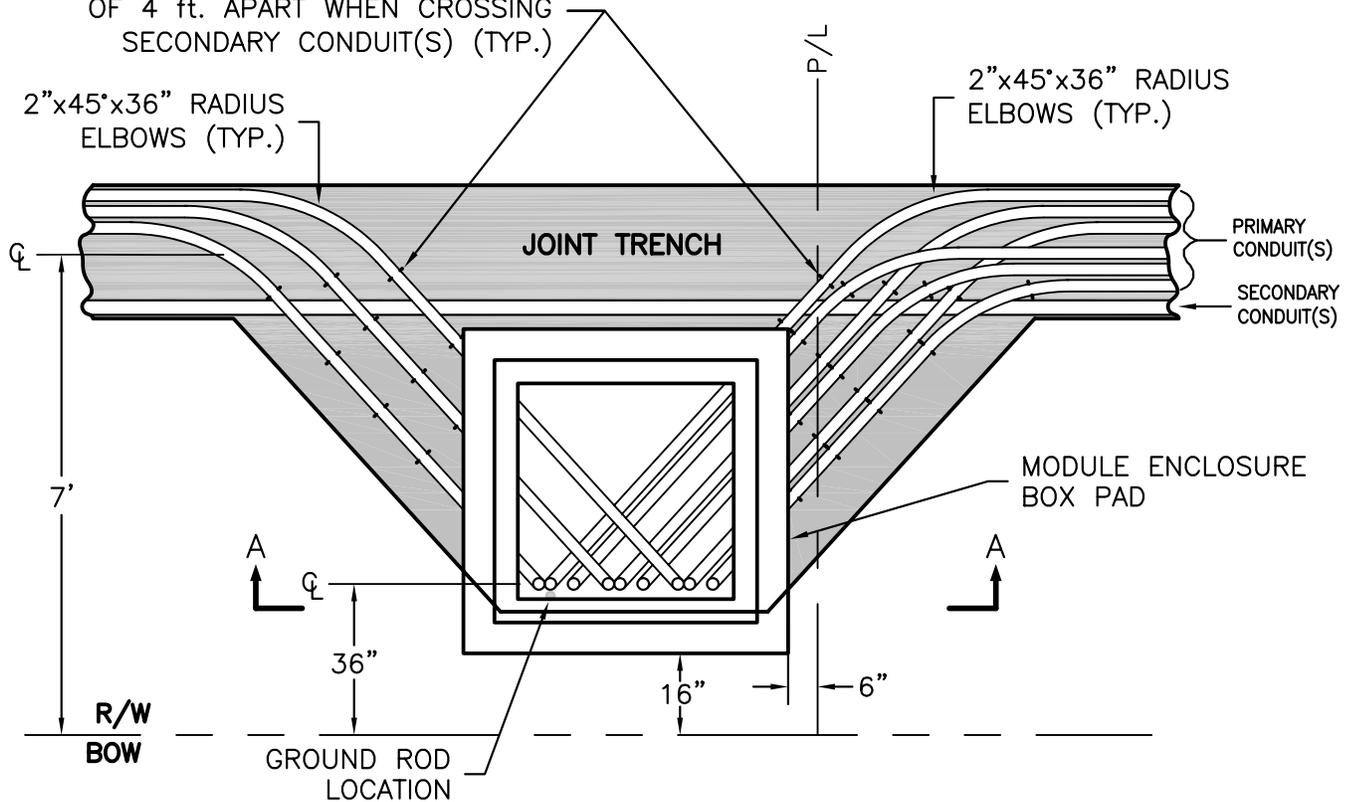
Drawing name: M:\DATA\CAD\Standards\UG\0317\2430-1.dwg Plotted: Jun 02,2004 - 2:24pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD MODULE ENCLOSURE TRENCH DETAIL SIDEWALK WITH PARKWAY			
11JUN01	CW	DJC	<i>Ams</i>	<i>H. K. K...</i>	SHEET 1 OF 2	317 2430
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	

4" BASE SPACERS TO BE A MAXIMUM OF 4 ft. APART WHEN CROSSING SECONDARY CONDUIT(S) (TYP.)

2"x45"x36" RADIUS ELBOWS (TYP.)

2"x45"x36" RADIUS ELBOWS (TYP.)



SECTION A-A

1. WHERE MODULE ENCLOSURE IS INSTALLED IN A LANDSCAPED AREA IT SHALL BE INSTALLED LEVEL AND 3 in. MINIMUM ABOVE ADJACENT GROUND LEVEL UNLESS OTHERWISE NOTED ON PLANS.
2. INSTALL GROUND WIRE AND ASSOCIATED EQUIPMENT AT MODULE ENCLOSURE PER ELECTRICAL CONSTRUCTION STANDARD 314 1007. GROUND WIRE TAIL IN MODULE ENCLOSURE SHALL BE A MINIMUM OF 6 ft. LONG.
3. ALL EMPTY CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS RRC-2 (2"), RRC-4 (4") OR APPROVED EQUAL.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2430-2.dwg Plotted: Jun 02,2004 - 2:25pm

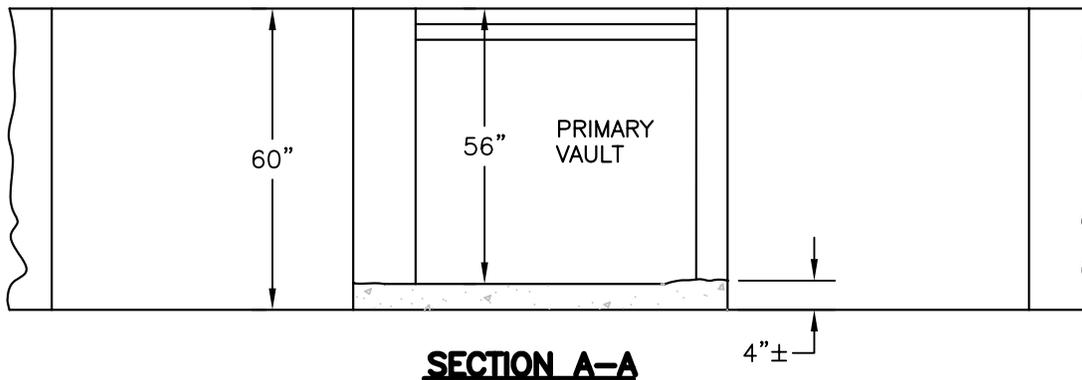
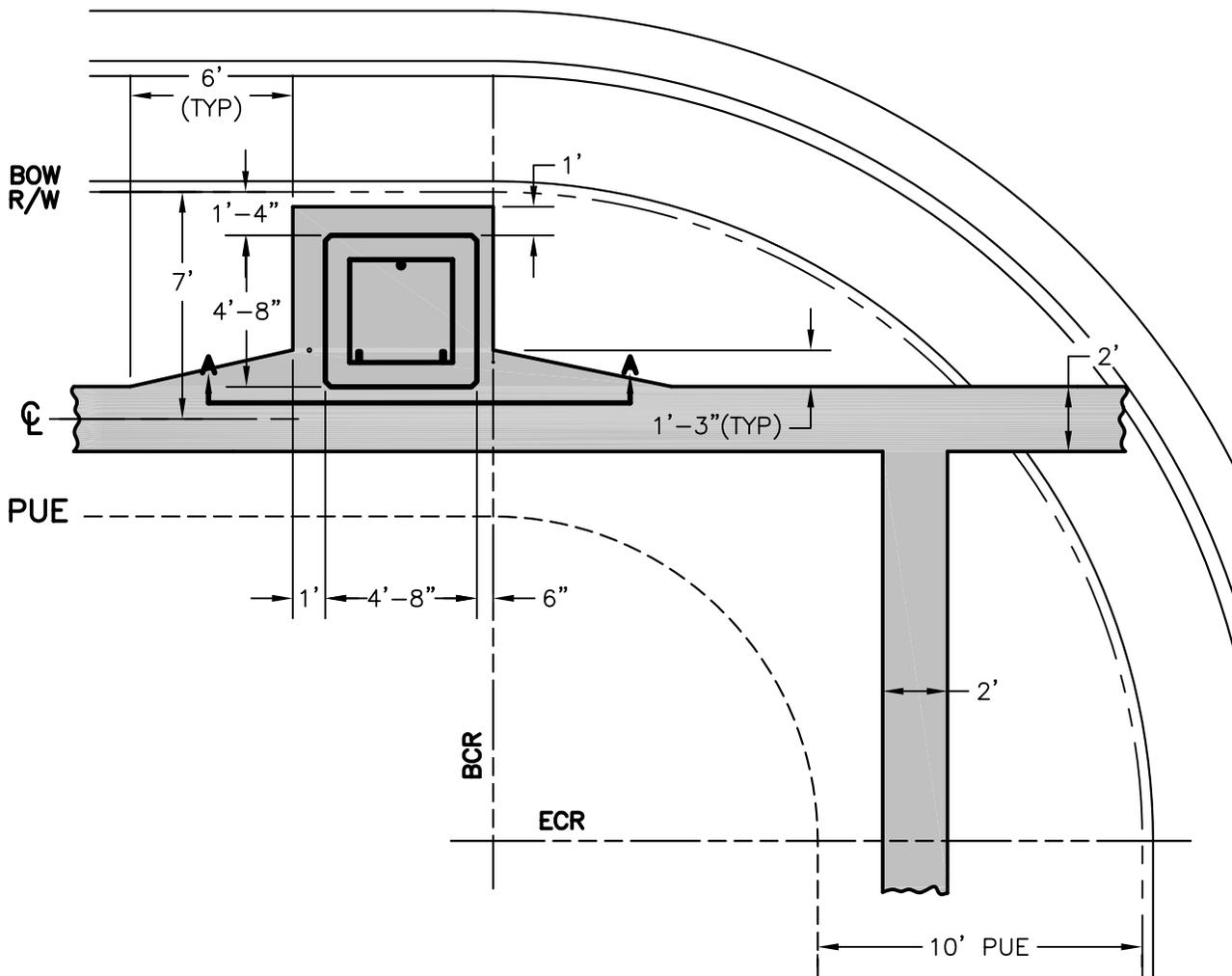


CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD
MODULE ENCLOSURE TRENCH DETAIL
SIDEWALK WITH PARKWAY

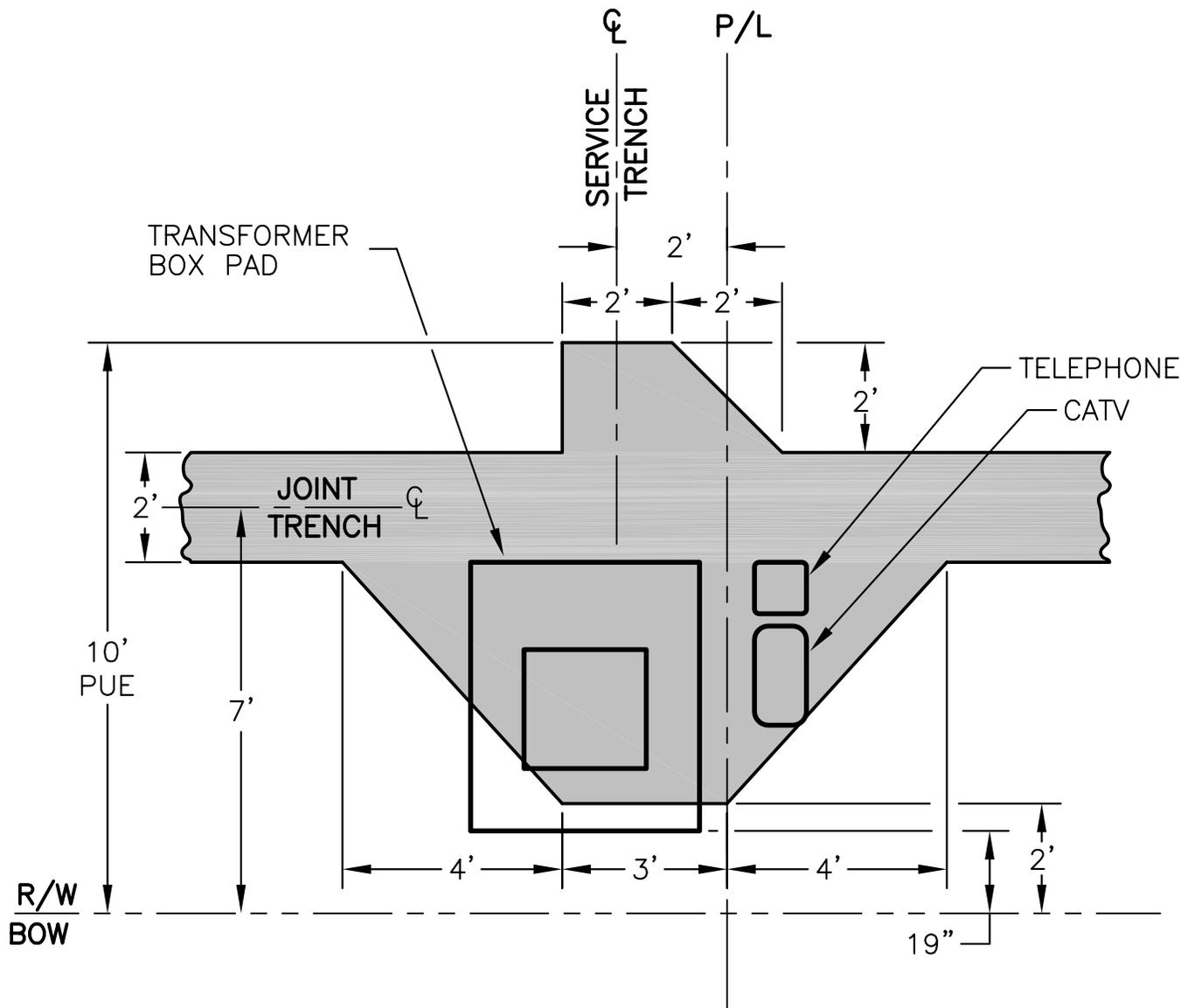
31MAY01	CW	DJC	<i>Ams</i>	<i>H. Hanley</i>	SHEET 2 OF 2
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3

317 2430



Drawing name: M:\DATA\CAD\Standards\UG\0317\2522.dwg Plotted: Jun 02,2004 - 2:25pm

		CITY OF LODI ELECTRIC UTILITY DEPARTMENT		CONSTRUCTION STANDARD PRIMARY VAULT WITH RISER CORNER LOCATION INSTALLATION DETAIL	
23JUN97	BA	DJC	<i>AMS</i>	<i>H. Hansen</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4
					317 2522

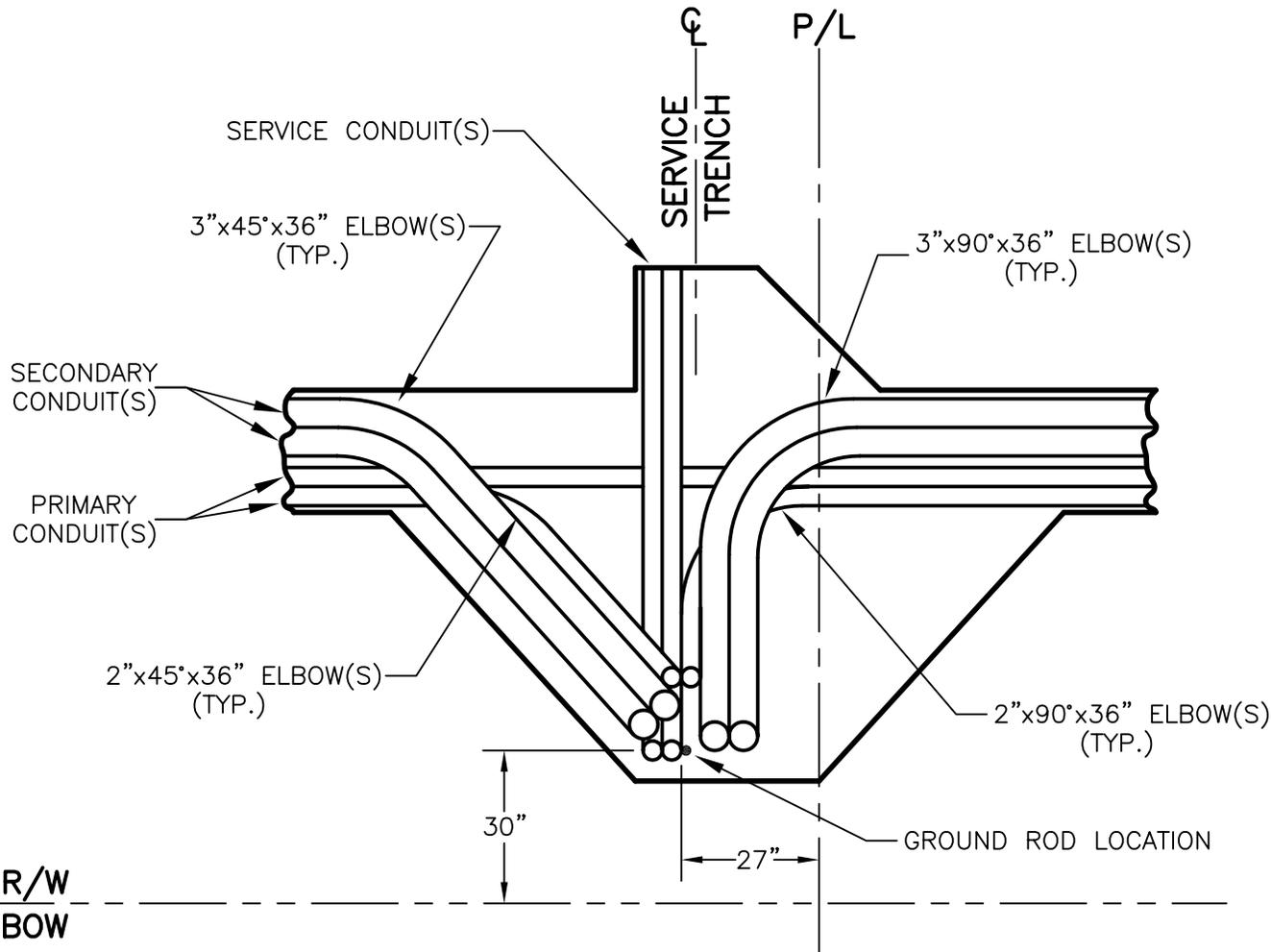


NOTE:

TRANSFORMER BOX PAD:
 PROGLASS, INC. FIBERGLASS TRANSFORMER BOX
 PAD, TX423820-T1 OR APPROVED EQUAL

Drawing name: M:\DATA\CAD\Standards\UG\0317\2526-1.dwg Plotted: Jun 02,2004 - 2:26pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SERVICE TRENCH, TRANSFORMER LOCATION (MAIN TRENCH SIDE) SIDEWALK WITH PARKWAY			
29MAY01	CW	DJC	<i>AMS</i>	<i>H. Haney</i>	SHEET 1 OF 3	317 2526
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	



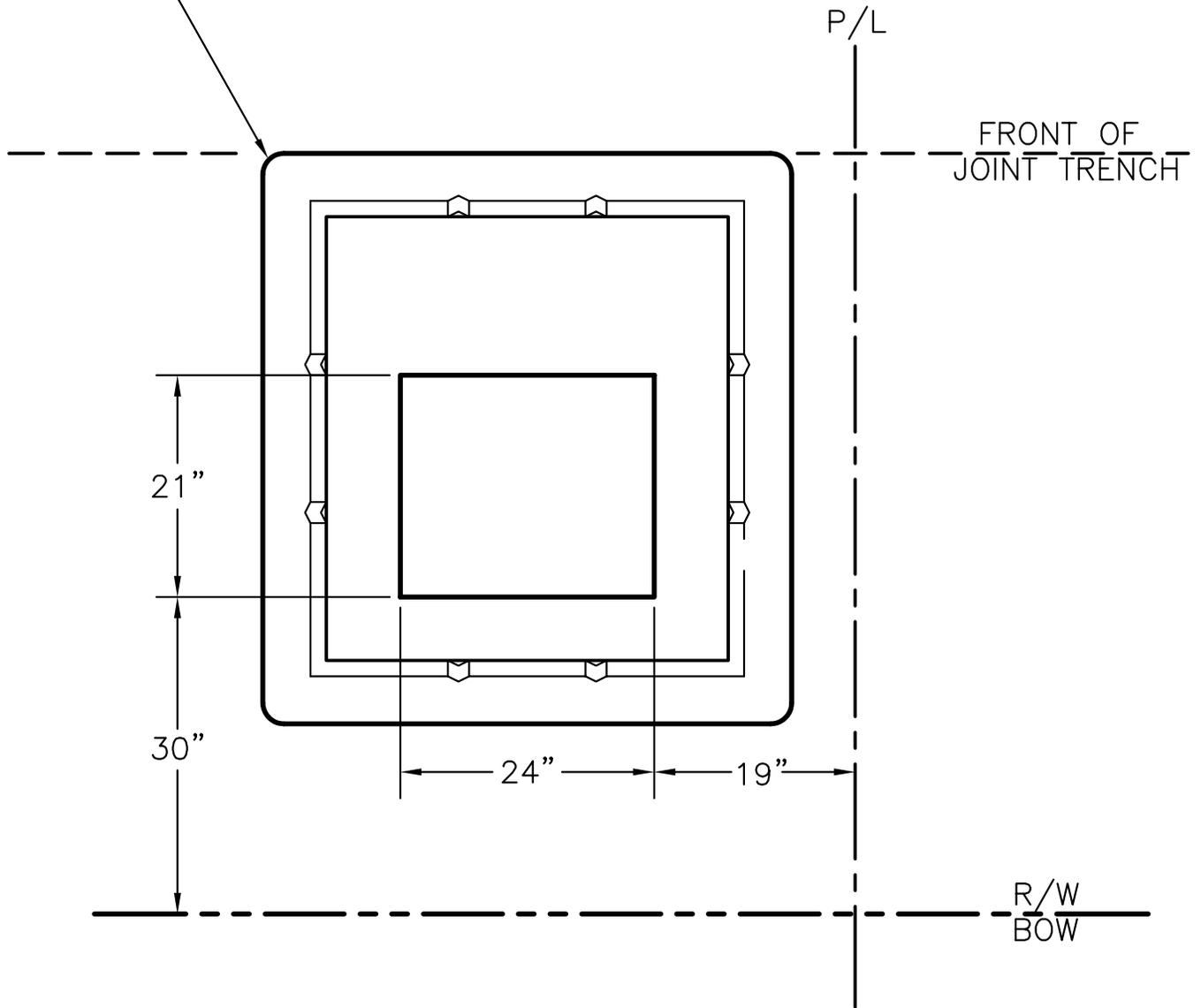
NOTE:

1. USE 4" BASE SPACERS WHEN IT IS NECESSARY TO BRIDGE CONDUITS OVER EACH OTHER. SPACERS TO BE A MAXIMUM OF 4 ft. APART.
2. ALL 90° PRIMARY AND SECONDARY CONDUIT ELBOWS SHALL HAVE A 36 in. RADIUS.
3. ALL 90° SERVICE CONDUIT ELBOWS SHALL HAVE A MINIMUM 24 in. RADIUS.
4. ALL CONDUIT ENDS TO BE CAPPED WITH ALLIANCE PLASTIC CONDUIT CAPS (RRC-2(2"). RRC-3 (3") OR APPROVED EQUAL.
5. INSTALL TRANSFORMER GROUND PER ELECTRICAL CONSTRUCTION STANDARD 314 1007. PROVIDE A GROUND WIRE TAIL ABOVE GROUND LEVEL A MINIMUM OF 6 ft. LONG.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2526-2.dwg Plotted: Jun 02,2004 - 2:26pm

			CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD SERVICE TRENCH, TRANSFORMER LOCATION (MAIN TRENCH SIDE) SIDEWALK WITH PARKWAY	
29MAY01	CW	DJC	<i>AMS</i>	<i>H. Haney</i>	SHEET 2 OF 3	317 2526	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3		

PROGLASS, INC. FIBERGLASS TRANSFORMER
BOX PAD, TX423820-T1 OR APPROVED EQUAL



Drawing name: M:\DATA\CAD\Standards\UG\0317\2526-3.dwg Plotted: Jun 02,2004 - 2:27pm



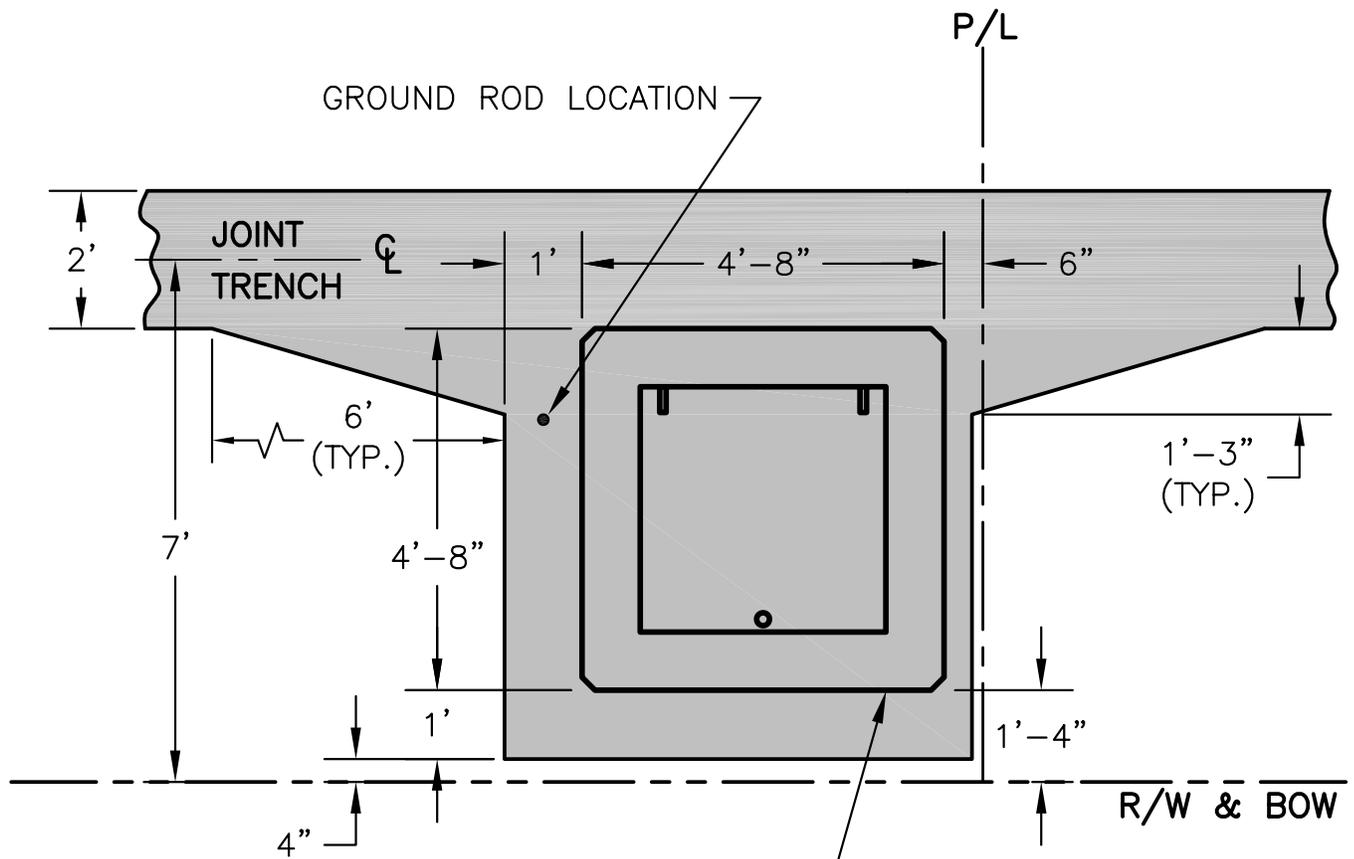
CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

FIBERGLASS TRANSFORMER BOX PAD, CONDUIT
AND BOX PAD LOCATION – SIDEWALK WITH PARKWAY

29MAY01	CW	DJC	<i>Ams</i>	<i>H. Hansen</i>	SHEET 3 OF 3
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1

317 2526



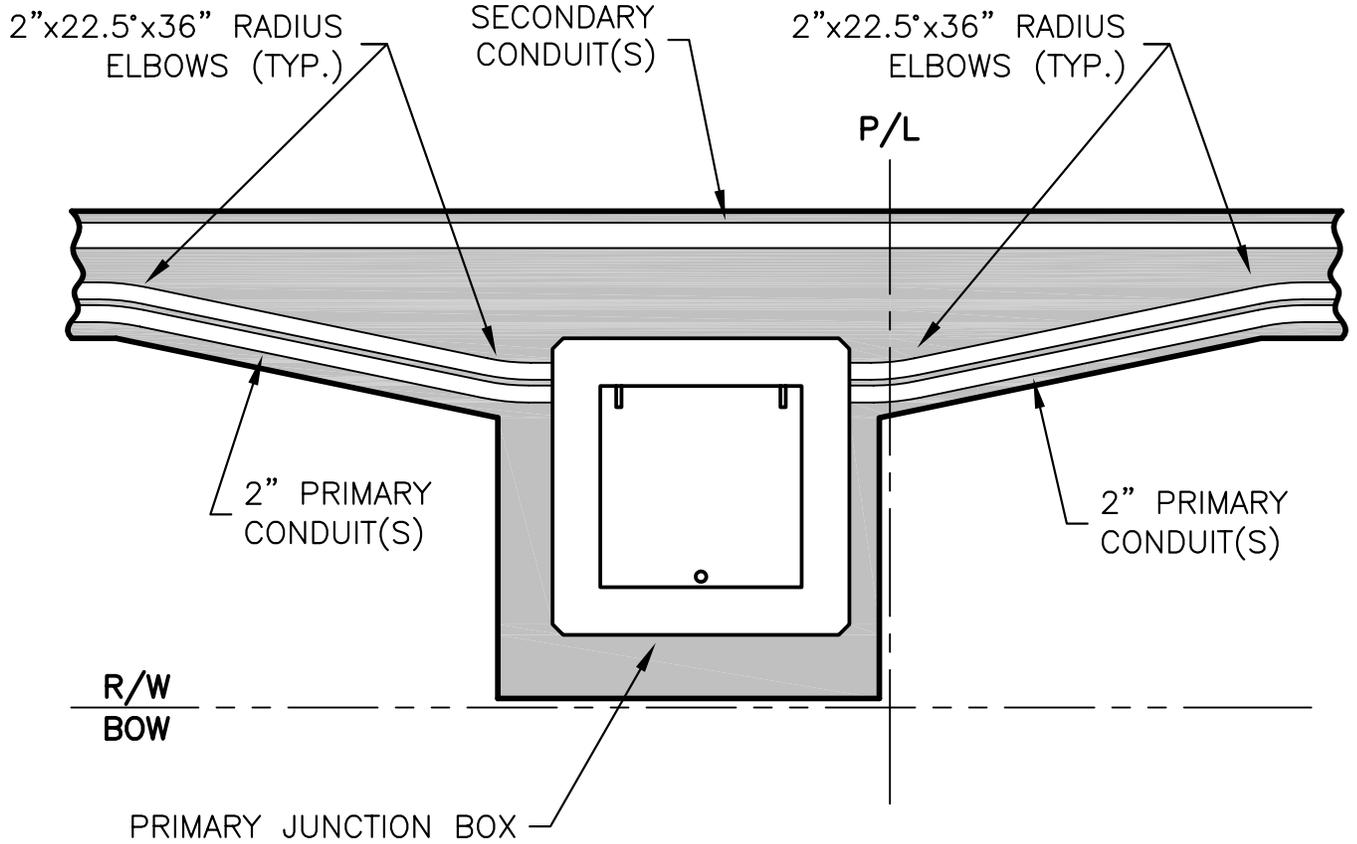
PRIMARY JUNCTION BOX. UTILITY VAULT CO.
 LODI 504-LA, 50"x50"x36" I.D. VAULT WITH
 6 in. EXTENSION RING AND NO. 55-332-P
 COVER OR APPROVED EQUAL.

NOTE:

1. INSTALL VAULT GROUND PER ELECTRICAL CONSTRUCTION STANDARD 314 1007.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2527-1.dwg Plotted: Jun 02,2004 - 2:28pm

			CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD PRIMARY JUNCTION BOX, MAIN TRENCH DETAIL SIDEWALK WITH PARKWAY	
29MAY01	RT	DJC	<i>AMS</i>	<i>H. Karsen</i>	SHEET 1 OF 3	317 2527	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1		

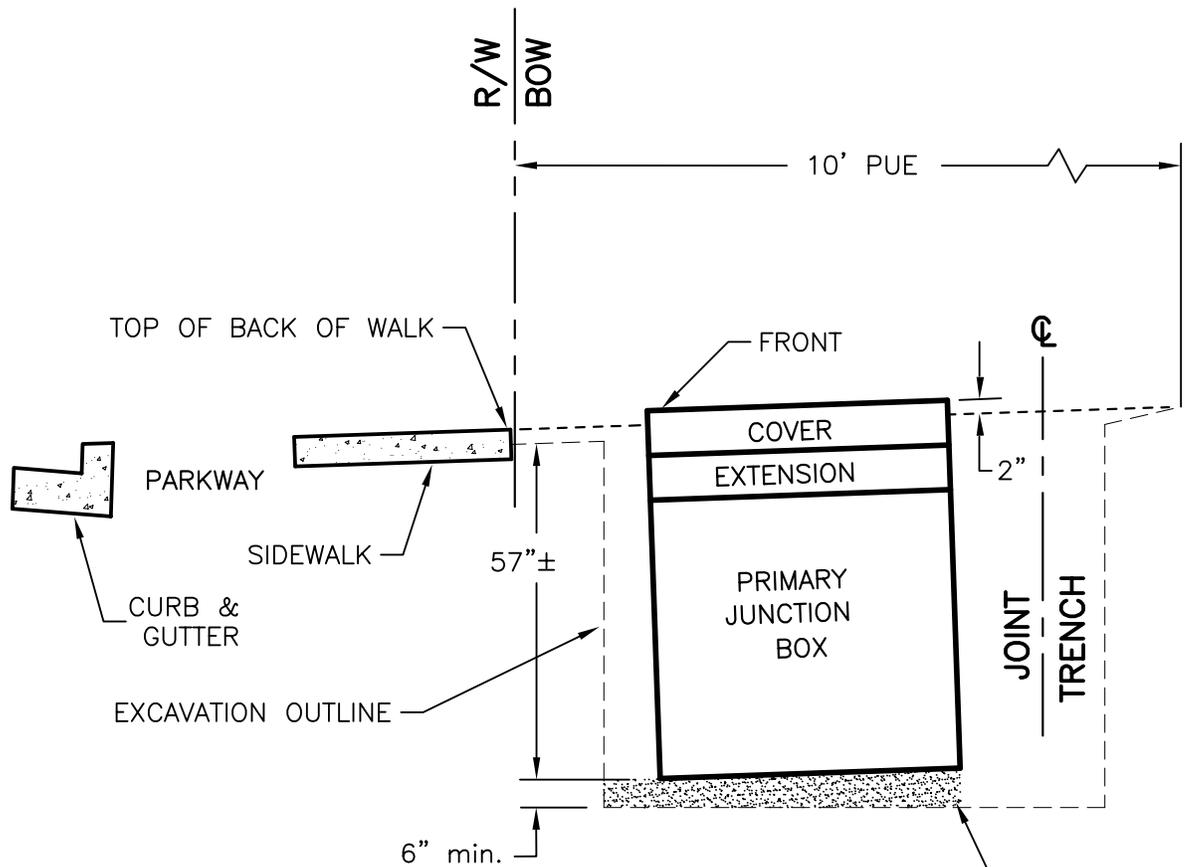


NOTE:

1. CONDUIT(S) SHALL ENTER THE PRIMARY JUNCTION BOX 90° TO THE OUTSIDE WALL OF THE BOX.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2527-2.dwg Plotted: Jun 02,2004 - 2:28pm

			<p align="center">CITY OF LODI ELECTRIC UTILITY DEPARTMENT</p>				<p align="center">CONSTRUCTION STANDARD</p> <p align="center">PRIMARY JUNCTION BOX, MAIN TRENCH DETAIL SIDEWALK WITH PARKWAY</p>	
04JUN01	CW	DJC	<i>Ams</i>	<i>H. Hansen</i>	SHEET 2 OF 3	317 2527		
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2			



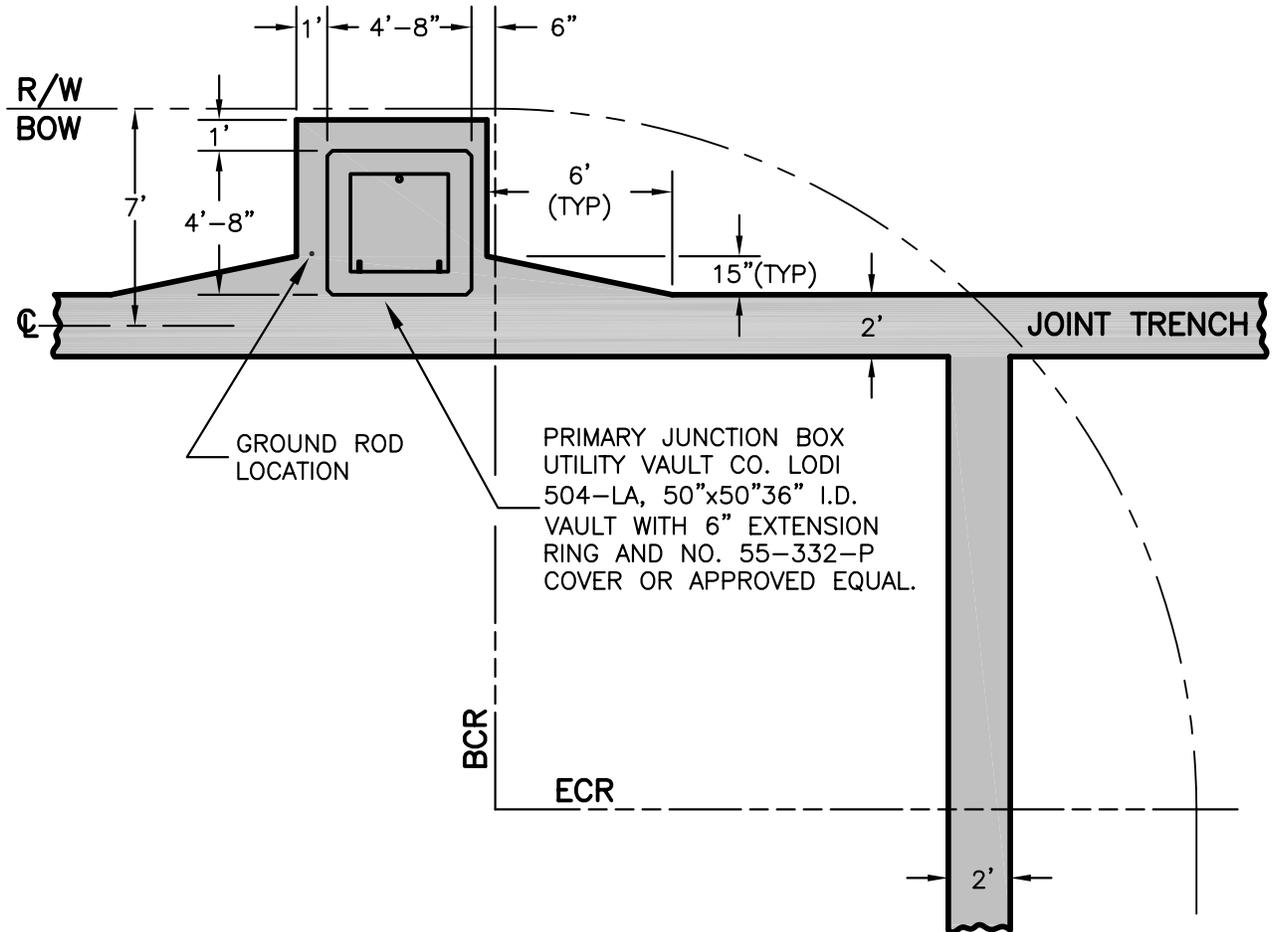
CRUSHED ROCK PER ASTM C38 GRAD.
#67 (3/4" TO NO. 4 WELL GRADED).

NOTE:

1. PRIMARY JUNCTION BOX, EXTENSION AND COVER SHALL BE PER CITY OF LODI SPECIFICATION.
2. PRIMARY JUNCTION BOX GRADE, FROM FRONT TO BACK, SHALL BE 2 in. ABOVE A LINE EXTENDING FROM THE TOP OF BACK OF SIDEWALK TO THE FINAL GRADE AT THE BACK OF THE PUE (SEE DRAWING) AND SHALL BE LEVEL SIDE TO SIDE.
3. BOTTOM OF PRIMARY JUNCTION BOX EXCAVATION TO BE COMPACTED TO 90% COMPACTION PRIOR TO INSTALLATION OF DRAIN ROCK AND BOX. CITY OF LODI, PUBLIC WORKS DEPARTMENT, TO PROVIDE COMPACTION TESTS. CONTACT ELECTRIC UTILITY DEPARTMENT AT (209) 333-6817 FOR COORDINATION OF COMPACTION TESTING.
4. ALL PRIMARY JUNCTION BOXES TO BE SPOTTED PER CITY OF LODI DRAWINGS, STANDARDS AND SPECIFICATIONS. STAKING WILL BE PROVIDED BY DEVELOPER.
5. HYDRO HAMMER IS NOT TO BE USED AROUND SUBSTRUCTURES. CITY OF LODI INSPECTOR TO APPROVE EACH PRIMARY JUNCTION BOX PRIOR TO DEVELOPER COMPLETING PROJECT.
6. COVER TO BE SET FOR LID TO OPEN FROM THE FRONT (STREET SIDE).
7. ASPHALTIC PRIMARY JUNCTION BOX SEALANT TO BE INSTALLED BETWEEN THE JUNCTION BOX COVER AND THE EXTENSION RING AND BETWEEN THE EXTENSION RING AND THE JUNCTION BOX.
8. INSTALL GROUND IN JUNCTION BOX PER 314 1007. GROUND WIRE TAIL IN VAULT SHALL BE A MINIMUM OF 16 ft. LONG.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2527-3.dwg Plotted: Jun 02,2004 - 2:29pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD PRIMARY JUNCTION BOX, MAIN TRENCH DETAIL SIDEWALK WITH PARKWAY			
04JUN01	CW	DJC	<i>AMS</i>	<i>H. H. H.</i>	SHEET 3 OF 3	317 2527
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3	



NOTE:

1. INSTALL VAULT GROUND PER ELECTRICAL CONSTRUCTION STANDARD 314 1007.

Drawing name: M:\DATA\CAD\Standards\UG\0317\2528.dwg Plotted: Jun 02,2004 - 2:30pm



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

PRIMARY JUNCTION BOX CORNER
LOCATION DETAIL — SIDEWALK WITH PARKWAY

30MAY01

CW

DJC

AMS

H. H. H.

SHEET 1 OF 1

317 2528

DATE

DRAWN

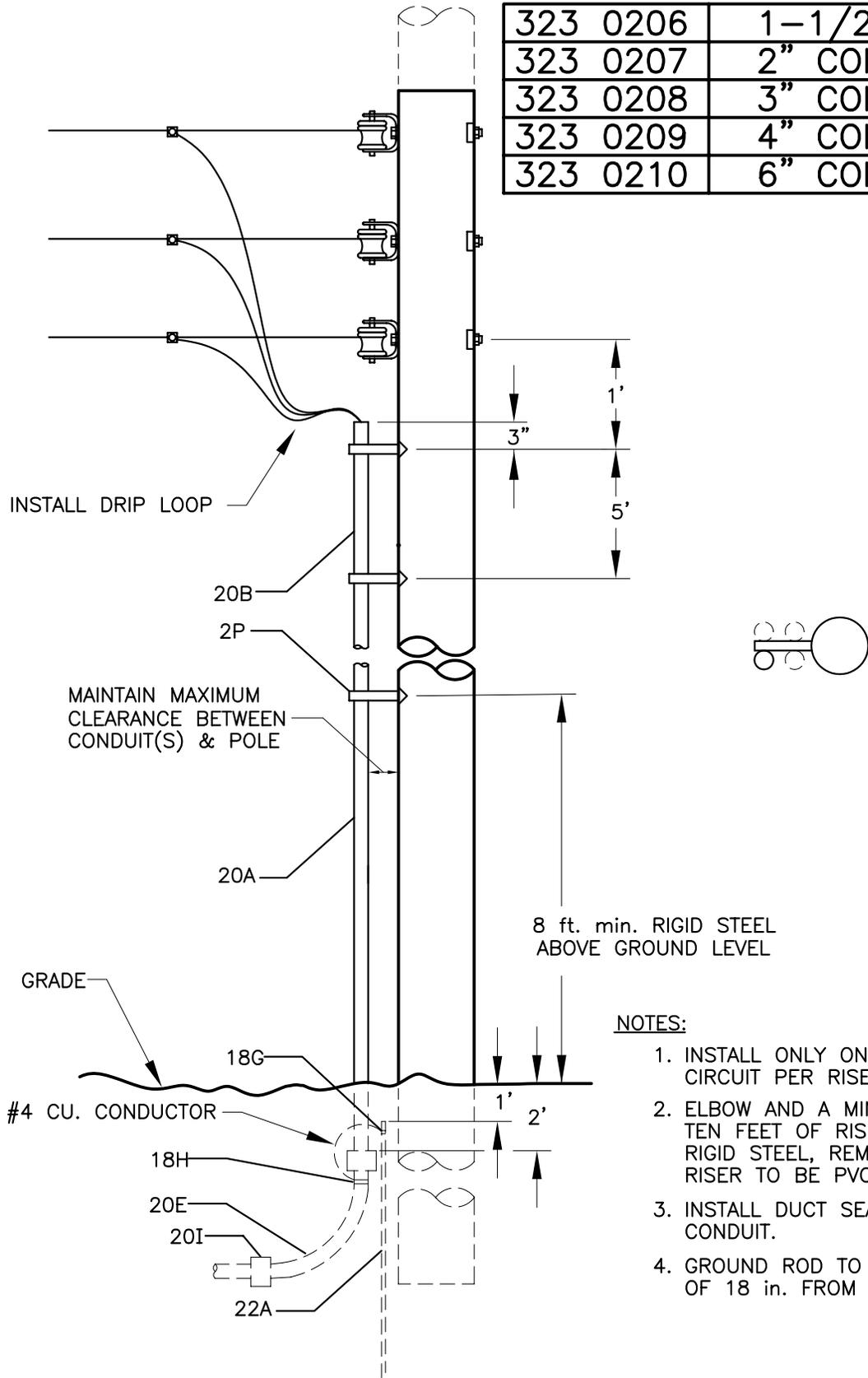
DESIGNED

CHECKED

APPROVAL

REVISION 1

323 0206	1-1/2" CONDUIT
323 0207	2" CONDUIT
323 0208	3" CONDUIT
323 0209	4" CONDUIT
323 0210	6" CONDUIT



NOTES:

1. INSTALL ONLY ONE SECONDARY CIRCUIT PER RISER CONDUIT.
2. ELBOW AND A MINIMUM FIRST TEN FEET OF RISER TO BE RIGID STEEL, REMAINDER OF RISER TO BE PVC SCHEDULE 40.
3. INSTALL DUCT SEAL AT TOP OF CONDUIT.
4. GROUND ROD TO BE A MINIMUM OF 18 in. FROM POLE.

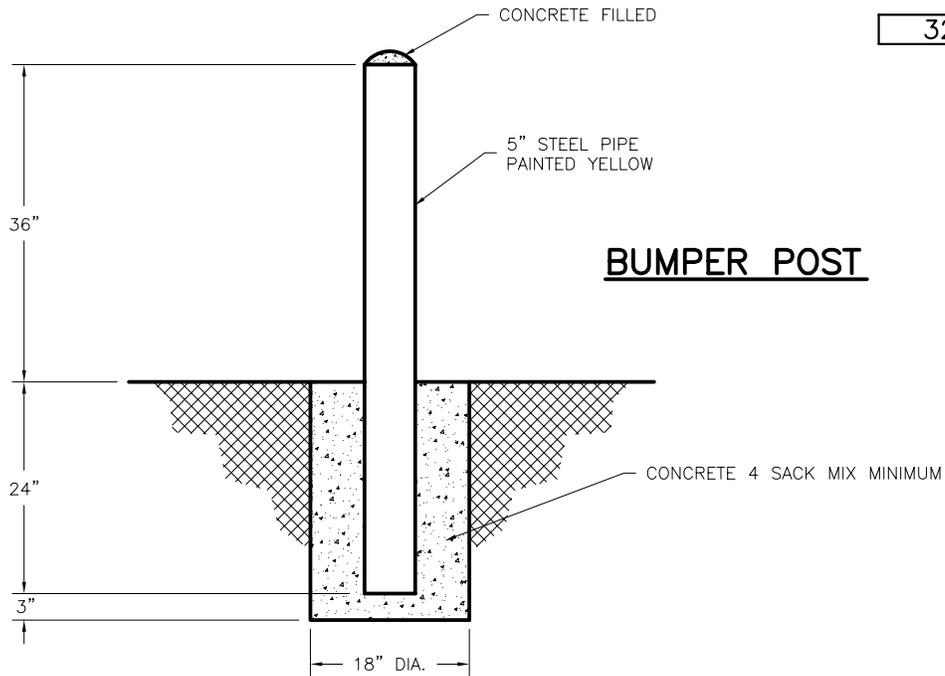
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 **CITY OF LODI**
ELECTRIC UTILITY DEPARTMENT

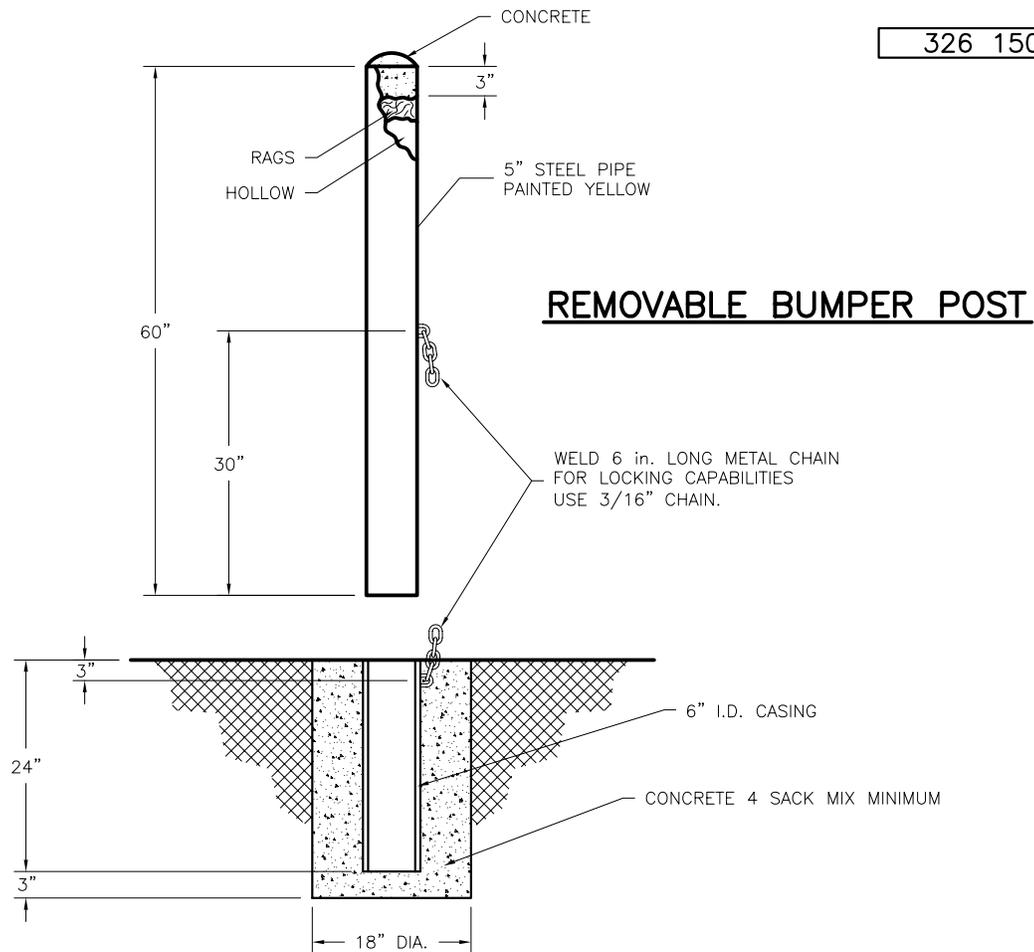
CONSTRUCTION STANDARD
SECONDARY OR SERVICE RISER(S) RIGID STEEL TO P.V.C. ON STAND-OFF BRACKETS

21OCT99	TF	AMS/DJC	<i>Ams</i>	<i>H. H. H.</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4

326 1502



326 1503



Drawing name: M:\DATA\CAD\Standards\UG\0326\1502-3.dwg Plotted: Jun 02,2004 - 2:31pm



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

BUMPER POST DETAILS

18MAR97	BA	DJC	AMS	<i>H. Hansen</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3

SINGLE PHASE SECONDARY

VOLTAGE	PHASE	COLOR
120 VOLT 2 WIRE	HOT LEG	RED
	NEUTRAL	WHITE
120/240 VOLT 120/208 VOLT 3 WIRE	HOT LEG	RED
	HOT LEG	BLACK
	NEUTRAL	WHITE

THREE PHASE SECONDARY

VOLTAGE	PHASE	COLOR
240/120 VOLT 4 WIRE	HOT LEG	RED
	HOT LEG (HIGH LEG)	ORANGE
	HOT LEG	BLUE
	NEUTRAL	WHITE
208Y/120 VOLT 4 WIRE	HOT LEG	RED
	HOT LEG	BLACK
	HOT LEG	BLUE
	NEUTRAL	WHITE
480Y/277 VOLT 4 WIRE	HOT LEG	BROWN
	HOT LEG	ORANGE
	HOT LEG	YELLOW
	NEUTRAL	GRAY

UNDERGROUND PRIMARY

VOLTAGE	PHASE	COLOR
ALL VOLTAGES	A	RED
	B	BLACK
	C	BLUE

Drawing name: M:\DATA\CAD\Standards\UG\0326\2401.dwg Plotted: Jun 02,2004 - 2:32pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT	CONSTRUCTION STANDARD					326 2401
	CONDUCTOR COLOR CODE					
20MAR96	BA	DJC	DJC	<i>H. H. H.</i>	SHEET 1 OF 1	
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	

PANEL SIZE	NUMBER OF SERVICE CIRCUITS	NUMBER OF CONDUCTORS	CONDUCTOR SIZE (AWG OR KCML)	AMPS PER CIRCUIT	NUMBER OF CONDUITS	SIZE OF CONDUITS
100	1	3	#4 CU	100	1	2"
	1	3	#2 AL	103	1	2"
150	1	3	1/0 CU	175	1	2"
	1	3	2/0 AL	156	1	2"
200	1	3	2/0 CU	200	1	2"
	1	3	4/0 AL	205	1	2"
225	1	3	4/0 CU	263	1	4"
	1	3	350 AL	276	1	4"
400	1	3	500 CU	427	1	4"
	1	3	750 AL	425	1	4"

NOTES:

1. SERVICE CONDUIT INSTALLED BY DEVELOPER PER CITY OF LODI, ELECTRIC UTILITY DEPARTMENT SPECIFICATIONS.
2. SERVICE CONDUCTORS INSTALLED BY CITY OF LODI, ELECTRIC UTILITY DEPARTMENT.

Drawing name: M:\DATA\CAD\Standards\Spec\0906\1003.dwg Plotted: Jun 02,2004 - 2:32pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT				CONSTRUCTION STANDARD UNDERGROUND SINGLE PHASE SERVICE CONDUCTOR AND RISER CONDUIT SCHEDULE		
28MAY97	BA	DJC	<i>Ams</i>	<i>H. Karsten</i>	SHEET 1 OF 1	906 1003
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	

PANEL SIZE	NUMBER OF SERVICE CIRCUITS	NUMBER OF CONDUCTORS (PER CIRCUIT)	CONDUCTOR SIZE (AWG OR KCMIL)	AMPS PER CIRCUIT	NUMBER OF CONDUITS	SIZE OF CONDUITS
100	1	4	#2 CU	132	1	2"
	1	4	#2 AL	103	1	2"
200	1	4	2/0 CU	200	1	2"
	1	4	4/0 AL	205	1	2"
400	1	4	500 CU	427	1	4"
	1	4	750 AL	425	1	4"
600	2	4	350 CU	317	2	4"
	2	4	500 AL	304	2	4"
800	3	4	350 CU	283	3	4"
	3	4	500 AL	270	3	4"
1000	4	4	350 CU	265	4	4"
	4	4	500 AL	252	4	4"
1200	4	4	500 CU	318	4	4"
	4	4	750 AL	311	4	4"
1600	6	4	500 CU	273	6	4"
	6	4	750 AL	265	6	4"
2000	8	4	500 CU	235	8	4"
	8	4	750 AL	228	8	4"

NOTES:

1. SERVICE CONDUIT INSTALLED BY DEVELOPER PER CITY OF LODI, ELECTRIC UTILITY DEPARTMENT SPECIFICATIONS.
2. SERVICE CONDUCTORS INSTALLED BY CITY OF LODI, ELECTRIC UTILITY DEPARTMENT.

Drawing name: M:\DATA\CAD\Standards\Spec\0906\1004.dwg Plotted: Jun 02,2004 - 2:33pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT				CONSTRUCTION STANDARD UNDERGROUND THREE PHASE SERVICE CONDUCTOR AND RISER CONDUIT SCHEDULE		
28MAY97	BA	AMS	<i>AMS</i>	<i>H. K. K...</i>	SHEET 1 OF 1	906 1004
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 4	

EQUIPMENT SPECIFICATIONS

CONCRETE VAULT ASSEMBLY (LODI 504-LA)

GENERAL:

This specification and the attached drawing are for accessory layout and not intended to include all aspects of the vault design. Vault, lid and riser sections are to seal without grouting. Vault assembly to meet requirements of latest revisions of AASHTO and ASTM standards.

COVER ASSEMBLY:

Cover to be as specified on work order drawing(s).

ACCESSORY RING:

Accessory ring to be as specified on work order drawing(s).

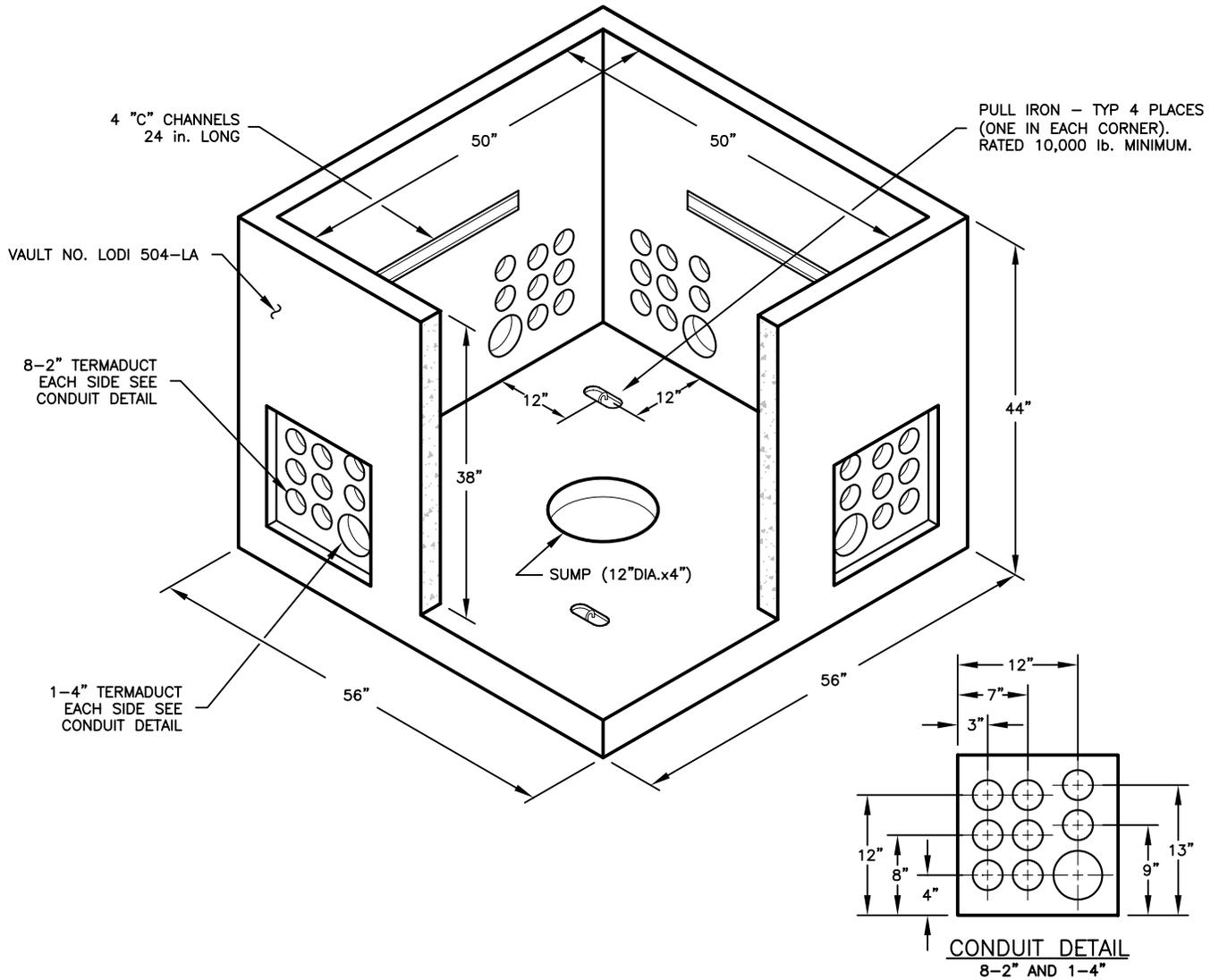
VAULT:

Overall outside dimensions shall be within ± 2 in. of dimensions shown on the attached drawing unless otherwise approved by the Electric Utility Department.

Vault to be equipped with accessories as shown on the attached drawing.

Drawing name: M:\DATA\CAD\Standards\Spec\0922\5679-1.dwg Plotted: Jun 02,2004 - 2:33pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT				CONSTRUCTION STANDARD CONCRETE VAULT ASSEMBLY LODI 504-LA		
21OCT99	BA	AMS	<i>AMS</i>	<i>H. K. [Signature]</i>	SHEET 1 OF 2	922 5679
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2	



Drawing name: M:\DATA\CAD\Standards\Spec\0922\5679-2.dwg Plotted: Jun 02,2004 - 2:34pm



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

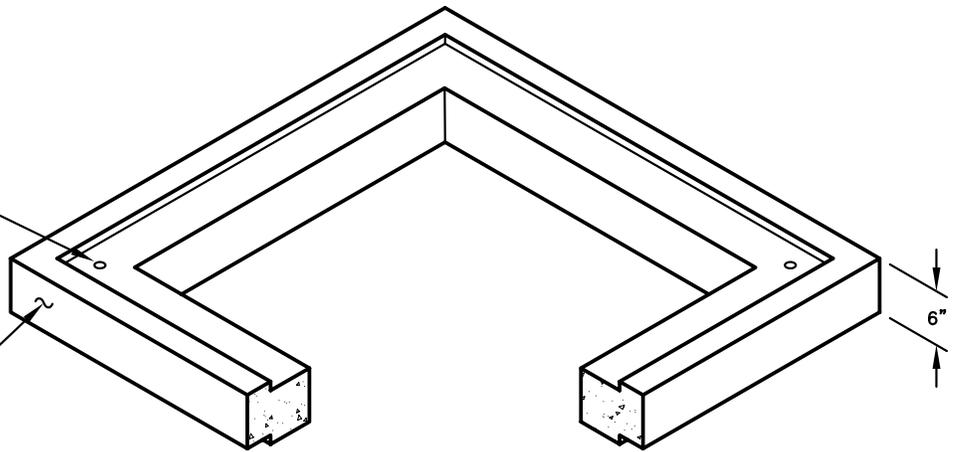
CONSTRUCTION STANDARD
PRIMARY VAULT
LODI 504-LA

21OCT99	BA		AMS	<i>H. Hansen</i>	SHEET 2 OF 2
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3

922 5679

P.D. CONCRETE
LIFTING INSERT
CODE NO. P-36-T
TYP (4 PLCS)

RISER NO. LODI 55R



Drawing name: M:\DATA\CAD\Standards\Spec\0922\5680.dwg Plotted: Jun 02,2004 - 2:35pm

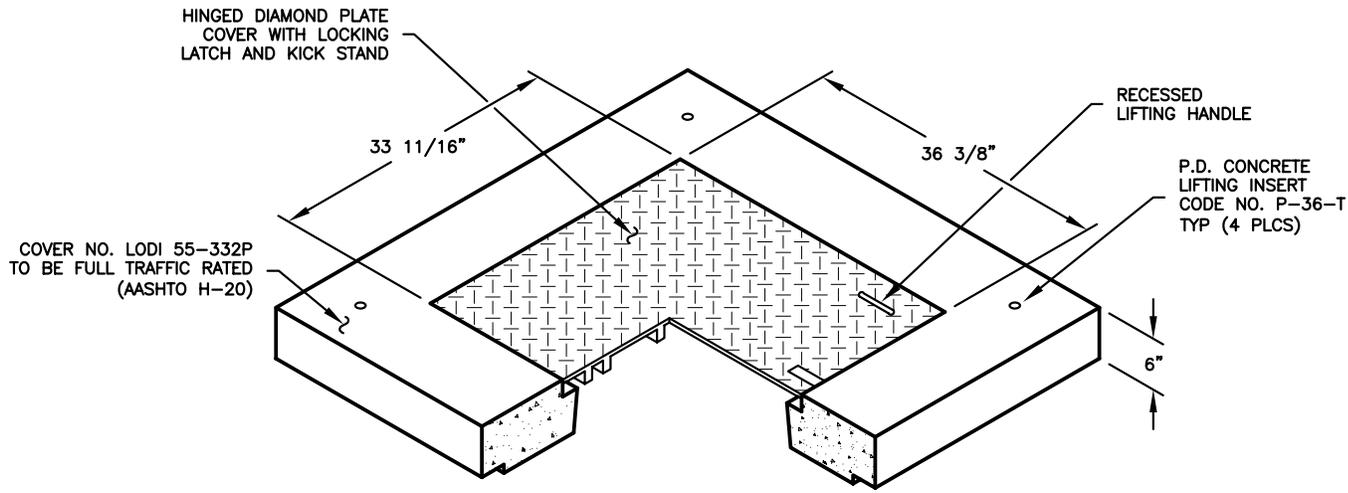


CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

PRIMARY VAULT – ACCESSORY RING
LODI 504-LA

21OCT99	TF	DJC	<i>AMS</i>	<i>H. K. ...</i>	SHEET 1 OF 1	922 5680
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	



Notes:

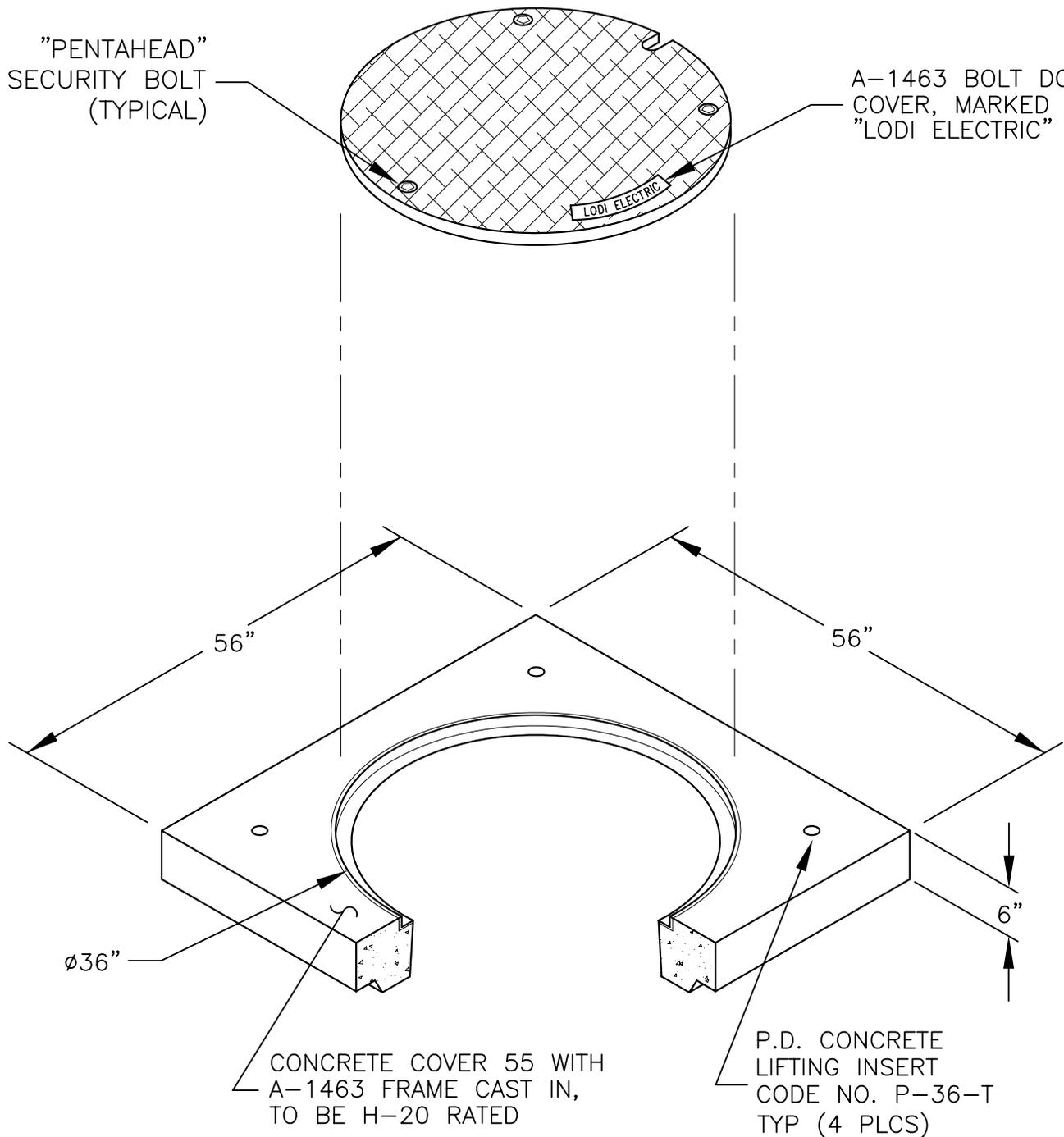
- Lid assembly to be constructed and supplied with the following:
- One piece design, hinged on one side
 - Open 180 degrees and be equipped with latching mechanism (Kick Stand) to hold the lid securely in place at slightly over 90 degrees.
 - Galvanized steel, diamond plate or Allgrip material
 - Full traffic (AASHTO H-20) rated
 - Minimum opening 33"x36"
 - P.D. Concrete Lifting Inserts, Code No. P-36-T
 - Pentahead Bolt

Drawing name: M:\DATA\CAD\Standards\Spec\0922\5681.dwg Plotted: Jun 02,2004 - 2:35pm

 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD HINGED VAULT COVER LODI 504-LA			
21OCT99	BA		<i>AMS</i>	<i>H. K. [Signature]</i>	SHEET 1 OF 1	922 5681
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 3	

"PENTAHEAD"
SECURITY BOLT
(TYPICAL)

A-1463 BOLT DOWN
COVER, MARKED
"LODI ELECTRIC"



Drawing name: M:\DATA\CAD\Standards\Spec\0922\5682.dwg Plotted: Jun 02, 2004 - 2:36pm



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

H-20 504 VAULT COVER

21OCT99

BA

AMS

H. Karney

SHEET 1 OF 1

922 5682

DATE

DRAWN

DESIGNED

CHECKED

APPROVAL

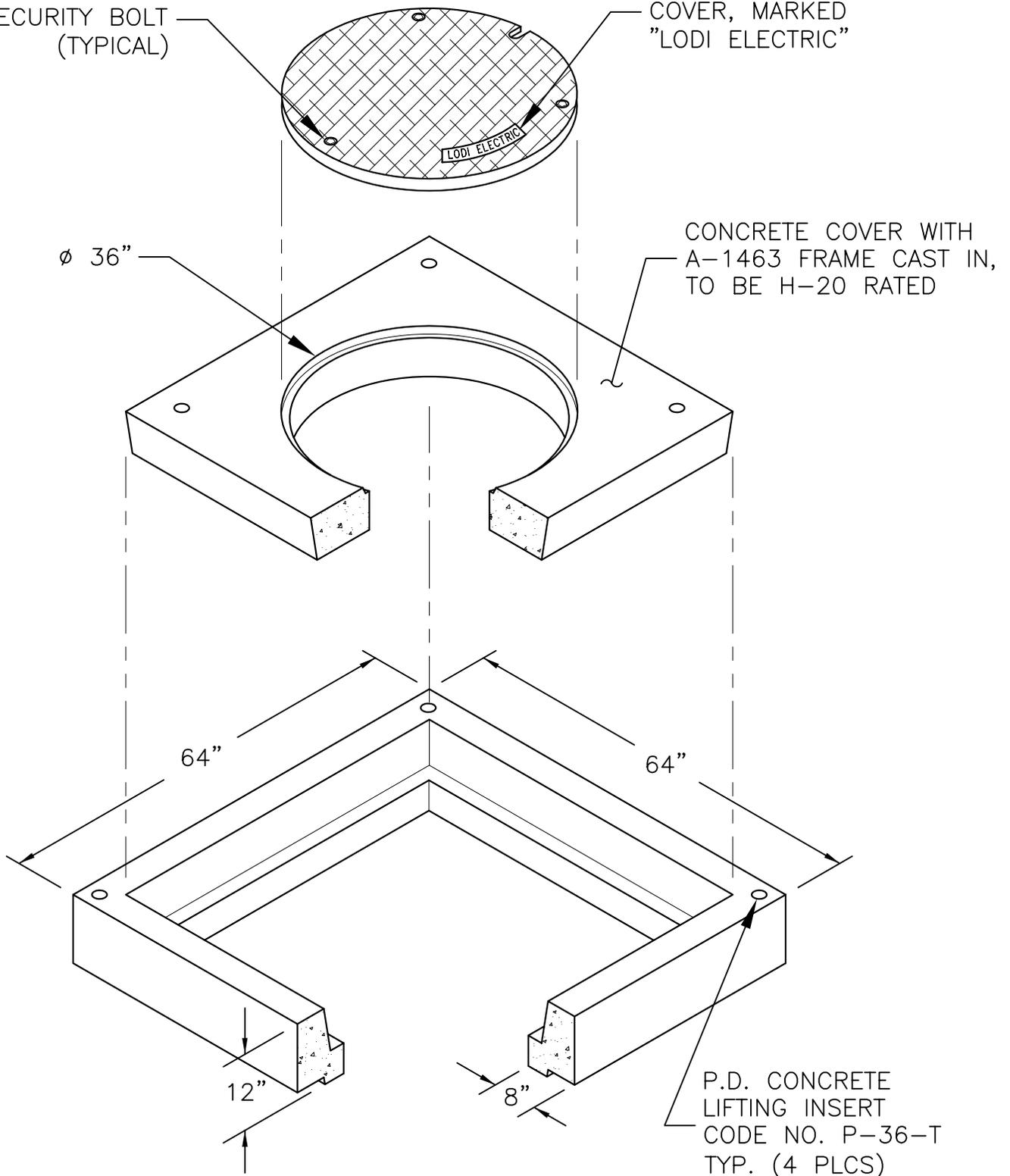
REVISION 1

"PENTAHEAD"
SECURITY BOLT
(TYPICAL)

A-1463 BOLT DOWN
COVER, MARKED
"LODI ELECTRIC"

∅ 36"

CONCRETE COVER WITH
A-1463 FRAME CAST IN,
TO BE H-20 RATED



P.D. CONCRETE
LIFTING INSERT
CODE NO. P-36-T
TYP. (4 PLCS)

Drawing name: M:\DATA\CAD\Standards\Spec\0922\5683.dwg Plotted: Jun 02,2004 - 2:37pm



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

CONSTRUCTION STANDARD

H-20 504 VAULT COVER

21OCT99	BA		AMS	<i>H. Hanson</i>	SHEET 1 OF 1
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 2

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Conduit Requirements for Communication with Electric Metering Equipment.

On commercial and industrial electric service installations the developer/contractor/owner shall provide one (1) conduit from the electric meter location, for use by the City to establish communication with the metering installation, to the telephone demarcation point (telephone board) under any of the below listed conditions:

- Commercial and industrial services rated greater than 200 amperes. The conduit shall originate at the metering section of the switchboard or service panel.
- Commercial and industrial services rated greater than 200 amperes and with the meter installed at a different location than the switchboard or service panel (remote meter). The conduit shall originate at the meter location.
- Multi metered commercial and industrial services having the meters located at one location within the premise either on a switchboard; on individual panels served from a wire raceway ("hot gutter"); on panels connected together with conduits or on panels ganged together. The conduit shall originate in the switchboard; "hot gutter" or in any one of the meter panels if connected with conduits or ganged together, respectively.
- Multi metered commercial and industrial services having the meters located in switchboards at different locations throughout the premise. One conduit shall originate at each switchboard.

Note: All of the above conduits shall terminate at the telephone demarcation point (telephone board).

The conduit shall be installed in accordance with NEC requirements.

The conduit shall be 3/4" EMT or PVC Schedule 40, minimum.

Each conduit shall be labeled at the telephone board indicating its point of origin.

Each conduit shall have a pull-string installed.

For any questions regarding the above, please contact the Electric Utility Department, Metering Division at (209) 333-6813.

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 CITY OF LODI ELECTRIC UTILITY DEPARTMENT			CONSTRUCTION STANDARD CONDUIT REQUIREMENTS FOR COMMUNICATION WITH ELECTRIC METERING EQUIPMENT			
30APR02	CW	HH	<i>AMS</i>	<i>H. Hansen</i>	SHEET 1 OF 1	401 0105
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 1	