

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035	DUPAGE		
		CONTRACT 60P42		
FED.ROAD.DIST.NO.	ILLINOIS	FED. AID PROJECT		

1. SCOPE

This specification covers the manufacture and delivery of Large Radius Rigid Steel Conduit Galvanized Elbows.

2. STANDARDS

The steel elbows shall be manufactured and tested in accordance with the latest applicable standards of Underwriters Laboratory (UL 6), ANSI C80-1, and NEC 2002 – Article 344.

3. TECHNICAL REQUIREMENTS

3.1 Material

The elbows shall be manufactured from rigid galvanized steel conduit and conform to the most recent UL specifications.

3.2 Specifications

SIZE (INCHES)	RADIUS (INCHES)	DEGREES BEND	TANGENT (INCHES)*	NOM WT (LBS)	ARC LENGTH (INCHES)	MATERIAL ID
2"	36"	45°	11" ± 1	16	28.28"	N/A
2"	36"	90°	11" ± 1	18	56.57"	N/A
3"	15"	90°	9" ± ½	22	23.57"	285 101 00130
3"	30"	90°	11" ± 1	42	47.14"	285 101 00140
5"	36"	30°	11" ± 1	73	18.85"	285 101 00160
5"	36"	45°	11" ± 1	77	28.28"	285 101 00170
5"	36"	90°	11" ± 1	91	56.57"	285 101 00180
6"	48"	11°	12" ± 1	112	9.43"	285 101 00186
6"	48"	22.5°	12" ± 1	118	18.85"	285 101 00188
6"	48"	30°	12" ± 1	122	25.14"	285 101 00190
6"	48"	45°	12" ± 1	129	37.71"	285 101 00200
6"	48"	90°	12" ± 1	152	75.43"	285 101 00210

*Tangent length shall be the same on both ends of the elbow.

4. SHIPPING

4.1 Size

The rigid steel galvanized elbows shall be shipped in palletized cartons or on pallets. Pallets shall be non-returnable and any associated costs shall be included in the quoted price of the steel elbows. All galvanized items shall have a total skid weight of less than 3000 pounds. Each layer shall have at least three (3) 2 X 4's as dividers for layer support and improved handling characteristics. The top layer shall be level dependent on the quantity ordered.

4.2 Capping

Plastic open-end thread protector caps to prevent the entrance of dirt and/or moisture shall be supplied to the open threaded ends of each rigid steel elbow.

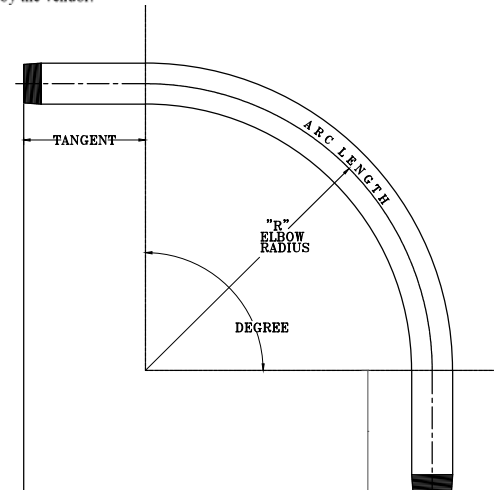
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4.3 Identification

Rigid Steel Elbows shall have a durable label securely attached (or have a permanent stencil) on the elbows with the following information: Manufacturer's identification, radius, size, theoretic tangent length and degrees bend, P.O. number, shipping length of elbow, and year of manufacture.

5. DELIVERY

All pallets shall be shipped on a flat-bed trailer when the load requires. Pallets shall not be double stacked for shipment. There shall be no mixture of items on each pallet. The City shall be notified by telephone (630-420-6186) at least 24 hours prior to delivery of the pallets. Pallets shall be unloaded by the City between 8:00 a.m. and 3:30 p.m. on weekdays only, holidays excluded. Additional shipping costs resulting from failure to provide the 24 hour notice or from delivery of goods outside the specified times shall be paid by the vendor.



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PROJECT TITLE				ROUTE 59 ROAD IMPROVEMENTS			
PROJECT DESCRIPTION				DETAILS AND STANDARDS			
ENGINEER	DRAFTING DATE	MAP #	SCALE				
BCC	8-04-12	4211,4224	N.T.S.				
GIS DESIGN BY	DRAFTED BY	REVISIONS DATE	AT&T JOINT AGREEMENT #	PROJECT #			
DL	PSM		N/A	EU-12			
CHECKED BY	APPROVED BY	CAD FILE	SHEET #				
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Naperville				Department of Public Utilities Electric Division			
				WORK REQUEST # 61123			