Blue Diamond Conduit Sizes and Dimensions

Based on Controlled Outside Diameter

HDPE ROLL PIPE

ASTM F 2160
SDR Pipe Data

		SDR 9			SDR 11			SDR 13.5		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
1/2”	0.840	0.633	0.093	0.099	0.667	0.076	0.085	0.696	0.062	0.072
3/4”	1.050	0.797	0.117	0.152	0.839	0.095	0.130	0.874	0.078	0.110
1”	1.315	1.003	0.146	0.235	1.051	0.120	0.200	1.100	0.097	0.169
1 1/4”	1.660	1.270	0.184	0.372	1.338	0.151	0.314	1.394	0.123	0.264
1 1/2”	1.900	1.452	0.211	0.488	1.534	0.173	0.409	1.599	0.141	0.343
2”	2.375	1.816	0.264	0.762	1.917	0.216	0.639	2.002	0.176	0.531
2 1/2”	2.875	2.198	0.319	1.117	2.321	0.261	0.936	2.424	0.213	0.778
3”	3.500	2.676	0.389	1.655	2.825	0.318	1.387	2.950	0.259	1.153
4”	4.500	3.440	0.500	2.737	3.633	0.409	2.293	3.794	0.333	1.906
5”	5.562	4.252	0.618	4.182	4.490	0.506	3.505	4.689	0.412	2.912
6”	6.625	5.064	0.824	5.931	5.348	0.602	4.971	5.585	0.491	4.130

ASTM F 2160
SDR Pipe Data

		SDR 15.5			SDR 17		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
1/2”	0.840	-	-	-	-	-	-
3/4”	1.050	0.895	0.068	0.098	0.906	0.062	0.092
1”	1.315	1.147	0.084	0.151	1.140	0.077	0.139
1 1/4”	1.660	1.426	0.107	0.235	1.445	0.098	0.218
1 1/2”	1.900	1.635	0.123	0.305	1.656	0.112	0.282
2”	2.375	2.049	0.153	0.469	2.076	0.140	0.434*
2 1/2”	2.875	2.482	0.185	0.685	2.516	0.169	0.629*
3”	3.500	3.021	0.226	1.015	3.064	0.206	0.932*
4”	4.500	3.885	0.290	1.678	3.939	0.265	1.540*
5”	5.562	4.801	0.359	2.563*	4.868	0.327	2.352*
6”	6.625	5.719	0.427	3.637*	5.799	0.390	3.337*

ASTM F 2160
SDR Pipe Data

		SCH 40			SCH 80		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
1/2”	0.840	-	-	-	-	-	-
3/4”	1.050	0.804	0.113	0.148	0.722	0.154	0.189
1”	1.315	1.029	0.133	0.218	0.936	0.179	0.278
1 1/4”	1.660	1.360	0.140	0.295	1.255	0.191	0.384
1 1/2”	1.900	1.590	0.145	0.352	1.476	0.200	0.465
2”	2.375	2.047	0.154	0.472	1.913	0.218	0.644
2 1/2”	2.875	2.445	0.203	0.744	2.290	0.276	0.983
3”	3.500	3.042	0.216	0.974	2.864	0.300	1.316
4”	4.500	3.896	0.282	1.387*	3.786	0.337	1.924
5”	5.562	5.009	0.258	1.904*	4.768	0.375	2.671
6”	6.625	6.031	0.280	2.444*	5.709	0.432	3.674*

Please note that some sizes and dimensions may require additional equipment or extended lead times.

**Note: Some dimensions only available in stick form.*

Blue Diamond UL Listed Conduit Sizes and Dimensions

Based on Controlled Outside Diameter

UL 651A		SCH 40			SCH 80			SDR 13.5		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
3/4”	1.050	0.804	0.113	0.148	0.722	0.154	0.189	-	-	-
1”	1.315	1.029	0.133	0.218	0.936	0.179	0.278	-	-	-
1 1/4”	1.660	1.360	0.140	0.295	1.255	0.191	0.384	-	-	-
1 1/2”	1.900	1.590	0.145	0.352	1.476	0.200	0.465	1.599	0.141	0.343
2”	2.375	2.047	0.154	0.472	1.913	0.218	0.644	2.002	0.176	0.531
2 1/2”	2.875	2.445	0.203	0.744	2.290	0.276	0.983	2.424	0.213	0.778
3”	3.500	3.042	0.216	0.974	2.864	0.300	1.316	2.950	0.259	1.153
4”	4.500	3.998	0.237	1.387*	3.786	0.337	1.924	3.794	0.333	1.906
5”	5.562	5.009	0.258	1.904*	4.768	0.375	2.671	4.689	0.412	2.912
6”	6.625	6.031	0.280	2.444*	5.709	0.432	3.674*	5.585	0.491	4.130

Blue Diamond Conduit Sizes and Dimensions

Based on Controlled Inside Diameter

Follows Dimensions of ASTM D 2239		SIDR 9			SIDR 11.5			SIDR 15		
Nominal Duct Size	Nominal ID	Nominal OD	Min Wall	Weight lbs/ft	Nominal OD	Min Wall	Weight lbs/ft	Nominal OD	Min Wall	Weight lbs/ft
1”	1.049	1.302	0.117	0.194	1.251	0.091	0.151	1.209	0.070	0.117
1 1/4”	1.380	1.707	0.153	0.328	1.640	0.120	0.255	1.584	0.092	0.197
1 1/2”	1.610	1.989	0.179	0.444	1.910	0.140	0.343	1.845	0.107	0.264
2”	2.067	2.554	0.230	0.732	2.448	0.180	0.559	2.363	0.138	0.426
2 1/2”	2.469	-	-	-	2.924	0.215	0.798	2.818	0.165	0.600
3”	3.068	-	-	-	3.634	0.267	1.232	3.502	0.205	0.926
4”	4.026	-	-	-	4.768	0.350	2.122	4.595	0.268	1.595
5”	5.046	-	-	-	5.976	0.439	3.334	5.759	0.336	2.506

Follows Dimensions of ASTM D 2239		True SIDR 9			True SIDR 11.5		
Nominal Duct Size	Nominal ID	Nominal OD	Min Wall	Weight lbs/ft	Nominal OD	Min Wall	Weight lbs/ft
1 1/4”	1.250	1.548	0.139	0.271	1.487	0.109	0.211
1 1/2”	1.500	1.853	0.167	0.385	1.781	0.130	0.300
2”	2.000	2.471	0.222	0.685	2.369	0.174	0.524
4”	4.000	4.942	0.444	2.740	4.737	0.348	2.095

Please note that some sizes and dimensions may require additional equipment or extended lead times.

**Note: Some dimensions only available in stick form.*

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: June 29, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐ UPS ☐ Courier ☒ **Email**

Copies	No.	Description
1 PDF	261300E03	(Submittal No. 261300-003) – Raceways & Boxes

Remarks:

c: **Kelvin Patel**
Kpatel@cannondesign.com

☒ **Furnish as Submitted** ☐ Furnish as Noted

☐ Rejected ☐ Revise & Resubmit

☐ Reviewed ☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

WTASHOP - Webster ISB - 26 1300-003

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 6/20/2016 5:06 PM
Subject: Webster ISB - 26 1300-003
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>, "Grossman, Lynn" <lgrossman@C...
Attachments: 261300-003 Raceways and Boxes.pdf

Attached for review.

Melissa Pirtle
Construction Admin
CANNONDESIGN
1100 Clark Ave
St. Louis, Missouri 63102
T 314.425.8797 • M
cannondesign.com

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

261300-003
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

261300
SPECIFICATION SECTION / PARAGRAPH

Guarantee Electrical
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◉ Shop Drawings
- ◯ Samples (_____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◯ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

6/20/16
DATE

To be completed by Reviewer

26 1300-003
CANNON DESIGN SUBMITTAL NUMBER

6/21/16
RECEIVED DATE

- ◯ A. No Exceptions Taken
  No further review of submittal is required.
- ◯ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ◯ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ◯ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ◯ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0097

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 06/20/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Raceways and Boxes

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		261300-003	1		06/20/2016	Raceways and Boxes	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

GUARANTEE
ELECTRICAL CONSTRUCTION

3415 Bent Avenue
St. Louis, MO 63116
Phone: (314) 772-5400
Fax: (314) 772-2526

Transmittal

To Paric Corporation

Date 6/16/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-003

We are sending you:

- X Attached
- ___ Under separate cover, the following:
- ___ Preliminary Drawings
- ___ Samples
- ___ Construction Drawings
- ___ Copy of Letter
- ___ Specifications
- ___ Other

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Raceways & Boxes - Spec
			Section 26 13 00

These are transmitted as checked:

- X For Your Review & Comment
- X For Approval
- ___ For Your File
- ___ As Requested
- ___ Approved As Noted
- ___ Returned For Corrections
- ___ Approved As Submitted
- ___

Copy: Transmittal Enclosure

___ ___

___ ___

___ ___

Rick Branstetter

Signed: Rick Branstetter, Project Manager