

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.

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: April 6, 2016

Attention: **Melissa Pirtle**
mpirtle@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Tom Becker (Faith Group)

Project No. WT 14127.01
FG 235-001

☐ UPS ☐ Courier ☒ **Email**

Copies	No.	Description
1 PDF	261300E01	(Submittal No. 26 1300-001)- (FG 235-001)
		➤ HDPE Conduit for Directional Boring

***Remarks: See Submittal Review from Faith Group.**

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

☒ ***Reviewed**

☒ ***Note Markings**

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.



Faith Group

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SUBMITTAL REVIEW

TO: CANNON Design
FROM: Tom Becker
PROJECT: Webster University - ISB
PROJECT NO: FG 235-001
SUBJECT: Submittal No. 261300-001
HDPE Conduit for Directional Boring
DATE: April 5, 2016
DISTRIBUTION: Sara Trout, Pat Garner

Engineer's review is for general conformance with the design concept and contract documents. Markings and/or comments, or the lack thereof, shall not be construed as relieving the Contractor from compliance with the project plans and specifications, nor departure therefrom. The Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing his work in a safe manner. All resubmittals shall have the changed information clearly highlighted by the submitter. Review of resubmittals only applies to the above highlighted information and is not a mechanism for granting approval to items not specifically highlighted.

Engineer's Review

Required Response

No Exceptions Taken	Confirm
X Note Marking	Resubmit
Rejected	X No Resubmittal
No Action Required	

Engineer's review is for general conformance with the design concept of the project and the information given in the contract documents. The contractor is responsible for, and this review does not include: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating the work with the other trades; and performing all work in a safe and satisfactory manner. Corrections or comments made on this submittal during this review do not relieve the contractor from compliance with the requirements of the contract documents or with its responsibilities listed above.

FAITH GROUP, LLC

By: Tom Becker Date: 4/5/2016



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0012

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 03/17/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: HDPE for directional boring

ATTN: Kelvin Patel

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:

<u>Item</u>	<u>Package</u>	<u>Code</u>	<u>Rev.</u>	<u>Copies</u>	<u>Date</u>	<u>Description</u>	<u>Status</u>
Submittal		261300-001	1		03/17/2016	HDPE for directional boring	Submitted

NOTES:

CC:

Signed: _____
Devin Gates