



Weaver

CONSTRUCTION MANAGEMENT

3679 S Huron Street, Suite 404 Englewood, Colorado 80110

Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITTAL

August 23, 2012

Submittal No: 15060-003

PROJECT: **Harold Thompson Regional WRF**
Birdsall Rd.
Fountain, CO 80817
Job No. 2908

ENGINEER: **GMS, Inc.**
611 No. Weber St., #300
Colorado Springs, CO 80903
719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
Sewage Disposal District**
901 S. Santa Fe Ave.
Fountain, CO 80817
719-382-5303 James Heckman

CONTRACTOR: **Mesa Plumbing**
Gary Cunningham
gcunninghamph@qwestoffice.net

SUBJECT: SCH 40 PVC DMV for Vent Pipe at Operations Building

SPEC SECTION: 15060: Pipe and Pipe Fittings

PREVIOUS SUBMISSION DATES:

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver Construction Management and, unless indicated otherwise, has been found to be in conformance with the intent of the contract documents.

Contractor's Stamp:

Date: 8/23/12

Reviewed by: John Jacob

() Reviewed Without Comments

(X) Reviewed With Comments

Engineer's Stamp:

ENGINEER'S
COMMENTS: _____



Project: HDTWRF Project

Location: Fountain, CO

Supplier: Mesa Plumbing

Date: 8/20/12

Submittal 15060-003 Plumbing Pipe SCH 40 PVC DWV Operation Building

Additional Submittal Review Comments:

1. Mesa Plumbing proposes to use SCH 40 PVC DWV pipe for vent piping at the Operations Building. .

End of Review by WCM.

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PIPE AND FOUNDRY COMPANY

Suggested Specification

System: PVC Cellular Core (Foam Core) Pipe and PVC DWV Fitting System

Scope: This specification covers PVC cellular core (foam core) pipe and PVC DWV fittings used in sanitary drain, waste, and vent (DWV), sewer, and storm drainage applications. This system is intended for use in non-pressure applications where the operating temperature will not exceed 140°F.

Specification: Pipe shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 11432 as identified in ASTM D 4396. Fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 12454 as identified in ASTM D 1784.

PVC cellular core pipe shall be Iron Pipe Size (IPS) conforming to ASTM F 891. Injection molded PVC DWV fittings shall conform to ASTM D 2665. Fabricated PVC DWV fittings shall conform to ASTM F 1866. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. All systems shall utilize a separate waste and vent system. Pipe and fittings shall conform to NSF International Standard 14.

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM D 2321 and ASTM F 1668. Solvent cement joints shall be made in a two step process with primer conforming to ASTM F 656 and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire stopping materials, thread sealant, plasticized vinyl products or other aggressive chemical agents not compatible with PVC compounds. Systems shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings.

Referenced Standards:

ASTM D 4396	Compounds for Cellular Core
ASTM F 891	Co-extruded PVC Pipe with Cellular Core
ASTM D 2665	PVC Drain, Waste, and Vent Fittings
ASTM D 2564	Solvent Cements for PVC Pipe and Fittings
ASTM D 2321	Underground Installation of Thermoplastic Pipe (non-pressure applications)
ASTM F 1668	Procedures for Buried Plastic Pipe
ASTM F 1866	Fabricated PVC DWV Fittings
NSF Standard 14	Plastic Piping Components and Related Materials

Note: Latest revision of each standard applies.

SPEC-LF-PVC-FC-DWV (2-10-12)

PO Box 35430 Charlotte, NC 28235 USA 704/372-5030 800/438-6091 FAX 800/553-1605
www.charlottepipe.com

RECOMMENDED PRODUCT SPECIFICATION

Suggested Specification

- System:** PVC Cellular Core (Foam Core) Pipe and PVC DWV Fitting System
- Scope:** This specification covers PVC cellular core (foam core) pipe and PVC DWV fittings used in sanitary drain, waste, and vent (DWV), sewer, and storm drainage applications. This system is intended for use in non-pressure applications where the operating temperature will not exceed 140°F.
- Specification:** Pipe shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 11432 as identified in ASTM D 4396. Fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 12454-B as identified in ASTM D 1784.

PVC cellular core pipe shall be Iron Pipe Size (IPS) conforming to ASTM F 891. PVC DWV fittings shall conform to ASTM D 2665. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. All systems shall utilize a separate waste and vent system. Pipe and fittings shall conform to National Sanitation Foundation Standard 14.

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all local plumbing, fire, and building code requirements. Solvent cement joints shall be made in a two step process with primer manufactured for thermoplastic piping systems and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents not compatible with PVC compounds. Systems shall be hydrostatically tested after installation. Testing with compressed air or gas is not recommended.

Referenced Standards:

ASTM D 1784	Rigid Vinyl Compounds
ASTM D 4396	Compounds for Cellular Core Pipe
ASTM F 891	Co-extruded PVC Pipe with Cellular Core
ASTM D 2665	PVC Drain, Waste, and Vent Pipe & Fittings
ASTM D 2564	Solvent Cements for PVC Pipe and Fittings
NSF Standard 14	Plastic Piping Components and Related Materials

Note: Latest revision of each standard applies.

Plastics

DC-PL-P

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DIMENSIONAL CATALOG

[Updated June 2004]

You can't beat the system.®

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Plastic Pipe and Fitting Dimensions

PVC Pipe: Drainage, Pressure and Well Casing

Possession of this price list shall not be construed as an offer to sell the products listed.



PVC Schedule 40 DWV and Schedule 40 Pressure Pipe - Plain End

PVC SCHEDULE 40 DWV & PRESSURE PIPE

PVC SCHEDULE 40 (WHITE)		PLAIN END			PVC 1120		ASTM D 1785		
PART NO.	NOM. SIZE	PIPE # S11942	TRUCKLOAD PERCENT PER SKID	QTY PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C	WT. PER 100 FT. (LBS.)	LIST PRICE PER 100 FT.
PVC 4005	1/2"x20'	03922	4.166	9000'	.840	.109	600 PSI	15.9	\$ 41.60
PVC 4007	3/4"x20'	03925	4.166	7000'	1.050	.113	480 PSI	21.1	\$ 54.00
PVC 4010	1"x20'	03928	4.166	6000'	1.315	.133	450 PSI	31.3	\$ 79.60
PVC 7100*	1 1/4"x10'	03945	1.780	2120'	1.660	.140	370 PSI	42.4	\$106.00
PVC 7100*	1 1/4"x20'	03946	4.166	4240'	1.660	.140	370 PSI	42.4	\$106.00
PVC 7112*	1 1/2"x10'	03947	2.083	1720'	1.900	.145	330 PSI	50.7	\$124.00
PVC 7112*	1 1/2"x20'	03948	4.165	3440'	1.900	.145	330 PSI	50.7	\$124.00
PVC 7200*	2"x10'	03949	1.780	990'	2.375	.154	280 PSI	68.1	\$162.00
PVC 7200*	2"x20'	03950	3.570	1980'	2.375	.154	280 PSI	68.1	\$162.00
PVC 4025*	2 1/2"x20'	04205	3.570	1360'	2.875	.203	300 PSI	108.0	\$257.00
PVC 7300*	3"x10'	03951	4.160	1040'	3.500	.216	260 PSI	141.2	\$326.00
PVC 7300*	3"x20'	03952	3.570	920'	3.500	.216	260 PSI	141.2	\$326.00
PVC 7400*	4"x10'	03953	4.160	600'	4.500	.237	220 PSI	201.2	\$460.00
PVC 7400*	4"x20'	03954	7.144	1200'	4.500	.237	220 PSI	201.2	\$460.00
PVC 7500*	5"x20'	04837	7.144	760'	5.563	.258	190 PSI	272.5	\$630.00
PVC 7600*	6"x10'	03955	4.160	280'	6.625	.280	180 PSI	353.7	\$816.00
PVC 7600*	6"x20'	03956	8.330	560'	6.625	.280	180 PSI	353.7	\$816.00
PVC 7800*	8"x20'	03958	8.330	360'	8.625	.322	160 PSI	532.3	\$1240.00
PVC 7910*	10"x20'	03959	8.330	220'	10.750	.365	140 PSI	754.7	\$1900.00
PVC 7912*	12"x20'	03961	7.144	120'	12.750	.406	130 PSI	997.9	\$2778.00
PVC 7914	14"x20'	04862	4.160	60'	14.000	.437	130 PSI	1180.1	\$3281.00
PVC 7916	16"x20'	04918	5.000	60'	16.000	.500	130 PSI	1543.1	\$4290.00

* Dual marked ASTM D 1785 and ASTM D 2665.

NOTE: When ordering, please specify plain end or bell end.
For truckloads of mixed sizes, multiply skids desired by truckload percent per skid.

All Charlotte Pipe and Foundry Company Products are made in U.S.A.

NSF Listed. Meets All Requirements of ASTM D 1784 and ASTM D 1785.

PVC Pipe is not recommended for use with compressed air or gases.



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PVC Schedule 40 DWV and Schedule 40 Pressure Pipe - Bell End

PVC SCHEDULE 40 (WHITE) BELL END PVC 1120 ASTM D 1785										
PART NO.	NOM. SIZE	PIPE # 41342	TRUCKLOAD PERCENT PER SKID	QTY PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	WORK PRESSURE AT 23° C.	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)	LIST PRICE PER 100 FT.†
PVC 4005B**	1/2"x10'	04986	2.083	6000'	.840	.109	600 PSI	2.00	15.9	\$ 41.60
PVC 4005B**	1/2"x20'	03923	4.166	9000'	.840	.109	600 PSI	2.00	15.9	\$ 41.60
PVC 4007B**	3/4"x10'	04987	2.083	4000'	1.050	.113	480 PSI	2.25	21.1	\$ 54.00
PVC 4007B**	3/4"x20'	03926	4.166	7000'	1.050	.113	480 PSI	2.25	21.1	\$ 54.00
PVC 4010B**	1"x10'	04988	1.780	3000'	1.315	.133	450 PSI	2.50	31.3	\$ 79.60
PVC 4010B**	1"x20'	03929	3.570	6000'	1.315	.133	450 PSI	2.50	31.1	\$ 79.60
PVC 4012B§	1 1/4"x10'	04989	2.083	2000'	1.660	.140	370 PSI	2.75	42.4	\$108.40
PVC 4012B§	1 1/4"x20'	03930	3.570	4000'	1.660	.140	370 PSI	2.75	42.4	\$108.40
PVC 4015B§	1 1/2"x10'	04990	2.083	1720'	1.900	.145	330 PSI	3.00	50.7	\$127.60
PVC 4015B§	1 1/2"x20'	03931	4.165	3440'	1.900	.145	330 PSI	3.00	50.7	\$127.60
PVC 4020B†	2"x10'	04991	1.786	990'	2.375	.154	280 PSI	4.00	69.2	\$165.60
PVC 4020B†	2"x20'	03932	3.570	1980'	2.375	.154	280 PSI	4.00	69.2	\$165.60
PVC 4025B†	2 1/2"x10'	04992	1.786	680'	2.875	.203	300 PSI	4.00	110.0	\$262.00
PVC 4025B†	2 1/2"x20'	04206	3.570	1360'	2.875	.203	300 PSI	4.00	110.0	\$262.00
PVC 7300B§	3"x10'	04853	4.160	1040'	3.500	.216	260 PSI	4.00	145.1	\$340.00
PVC 4030B†	3"x20'	03933	3.570	920'	3.500	.216	260 PSI	4.00	144.5	\$340.00
PVC 7400B§	4"x10'	04835	4.160	540'	4.500	.237	220 PSI	4.00	207.9	\$489.00
PVC 9400B†	4"x20'	03964	7.144	1080'	4.500	.237	220 PSI	5.00	206.2	\$489.00
PVC 7600B§	6"x10'	04850	4.160	240'	6.625	.280	180 PSI	6.50	371.4	\$852.00
PVC 9600B†	6"x20'	03965	7.144	480'	6.625	.280	180 PSI	6.50	365.5	\$852.00
PVC 9800B†	8"x20'	03967	5.000	200'	8.625	.322	160 PSI	7.00	552.3	\$1296.00
PVC 7910B†	10"x20'	03960	6.250	160'	10.750	.365	140 PSI	9.00	785.4	\$1940.00
PVC 7912B†	12"x20'	03962	7.144	120'	12.750	.406	130 PSI	10.00	1046.7	\$2608.00
PVC 7914B†	14"x20'	04863	4.160	60'	14.000	.437	130 PSI	10.00	1180.1	\$2968.00
PVC 7916B†	16"x20'	04929	5.000	60'	16.000	.500	130 PSI	10.00	1543.1	\$4505.00

PVC - DWV & PRESSURE PIPE

** ASTM D 1785 † Triple Marked ASTM D 1785 & ASTM D 2665 & ASTM F 480
§ Dual Marked ASTM D 1785 & ASTM D 2665 ‡ Dual Marked ASTM D 1785 & ASTM F 480

NOTE: For truckloads of mixed sizes, multiply skids desired by truckload percent per skid.

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