

Roubion Roads & Streets, LLC

824 Dakin St.

Jefferson, LA 70121

letter of transmittal

To: *Mr. Chuck Dammon*

Dammon Engineering, Inc.

554 Old Spanish Trail

Slidell, LA 70458

From: Michael Assaf
Manager
Roubion Concrete and paving
824 Dakin Street
Jefferson, LA 70121

Email: massaf@roubioninc.com
Cell: 504-913-2860
Fax: 504-269-3551

**CDBG PHASE U
5000-23- SIDEWALK & DRAINAGE
IMPROVEMENTS PROJECT
DISTRICT A / LINCOLN PARK
SLIDELL, LOUISIANA**

SUBMITTALS

1. Key phone Numbers
2. List Of Suppliers
3. EEO letter
4. Concrete Mix Design
5. Sand Sieve Analysis
6. RCP Pipe and Precast Structure Specification

DAMMON ENGINEERING INC

Date: 2-20-13 Project: CDBG PHASE U
 Reviewed: ✓
 Reviewed as Noted: _____
 Revise and Resubmit: _____
 Rejected: _____
 Other: _____

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

Submittal Item: #6, SUPPLIERS, LETTER, MIX DESIGN, SAND
 Comments: RCP PIPE ANALYSIS

Roubion Roads & Streets, LLC

824 Dakin St.

Jefferson, LA 70121

**CDBG PHASE U
5000-23- SIDEWALK & DRAINAGE
IMPROVEMENTS PROJECT
DISTRICT A / LINCOLN PARK
SLIDELL, LOUISIANA**

Key Phone Numbers

Michael Assaf – Manager Office: 504-269-9909 Mobile: 504-913-2860

Doug Lago - Superintendent Office: 504-269-9909 Mobile: 504-913-2474

Lydia Roubion-EEO Officer Office: 504-269-9909

Sheila Huston-Contract Administrator (Certified Payroll) Office: 504-269-9909

Sheila Huston-Contract Administrator (Subcontracts & Billings) Office: 504-269-9909

Doug LAGO-Safety Director Office: 504-269-9909 Mobile: 504-913-2474

Sub Contractors/ Suppliers:

SEE ATTACHED

Bonding Company:

RLI INSURANCE CO.

P.O.Box 3967

Peoria, Illinois

Ph: (800)645-2402

Fax: (309)689-2036

Bonding Agent:

Financial Assurance, LLC

6620 Riverside Dr.

Suite 210

Metairie, LA 70003

Contact: Jared Strecker CELL(504) 701-8437 OFFICE (504) 846-3500

LSIT OF SUBCONTRACTORS AND SUPPLIERS

LAFARGE CONSTRUCTION MATERIALS, INC.

150 Industrial Drive
Slidell, LA
Dispatch: 985-646-2341
Sales (Bill) 985-960-0748

Traffic Solutions Inc.

2950 St. Anthony Ave.
New Orleans, LA 70122
Ph: 504-948-4809
Fax: 504-948-4802
Contact: Stacy Seamon

Design precast Concrete, Inc.

15215 Dedeaux Rd.
Gulfport, MS 39503
228-831-5833
Sales – Joe Brown – 504-343-4502

B&W Trucking

130 Industrial Drive
Slidell, LA
Dispatch: 985-641-3150

ROUBION ROADS & STREETS

824 Dakin Street * Jefferson, LA 70121 * (504) 269-9909 * (504) 269-3551 Fax

ROUBION ROADS & STREETS EQUAL EMPLOYMENT OPPORTUNITY POLICY

Roads & Streets continuing policy is to afford Equal Employment Opportunity to qualified individuals regardless of their race, color, religion, national origin, sex, disability or handicap, age, height, weight, veteran status, marital status, misdemeanor arrests where a conviction did not result, or any other classification protected by law. This policy of equal opportunity encompasses all aspects of the employment relationships, including administration, recruiting, hiring, reassignments, sponsored training, compensation, benefits, layoff and rehires, termination of employment, recreation programs, and the application of services, retirement, seniority, employee benefit plan policies and other terms and conditions of employment as provided by law.

Roads & Streets welcomes and encourage minorities to apply for any position(s).

Roads & Streets as part of its commitment to Equal Employment Opportunity, adhere to all City, State, and Federal laws with respect to Equal Employment Opportunity. However, if anyone feels that they have been treated unfairly in any aspect of their employment, we want to assure you that you have an opportunity to present your concerns. Management for Roads & Streets will make special efforts to ensure that all supervisory personnel understand and effectively implement this policy. Supervisory employees will be evaluated on their adherence and commitment to this policy.

Further, all complaints about discriminatory treatment in violation of this policy MUST be brought to the attention of Management so that an internal investigation may be undertaken promptly. At the conclusion of an investigation and/or within a reasonable time thereafter, Management will contact the employee(s) and communicate their findings, if appropriate. All complaints will be kept confidential to the maximum extent possible.

Any employee, including managers, involved in, or condoning, discriminatory practices will be disciplined up to and including termination..

We must all realize that it is the responsibility of each and every employee of Roads & Streets to give our policy of Equal Employment Opportunity real meaning through our full support.

All members of Management are primarily responsible for seeing that Roads & Streets Equal Employment policies are implemented, but all staff share in the responsibility for assuring that by their personal actions the policies are effective and apply uniformly to everyone.

The Human Resources Department and Management at Roads & Streets meet periodically to review this Equal Employment Policy and to promote additional methodologies to ensure participation from any and all potential applicants.

Roubion Roads & Streets
President

November 5, 2012

LAFARGE CONSTRUCTION MATERIALS

MIX DESIGN PROPOSAL

MIX # 93 MIX DESCRIPTION: ASH WRA AEA TYPE: NORMAL WEIGHT

PROJECT: CDBG PHASE U - 5000-23 S/W DRAINAGE CLASS: 4000 P.S.I. @ 28 DAYS
 LOCATION: SLIDELL, LA PUMPABLE: NO
 APPLICATION: SIDEWALKS ADDITIVES: MICROFIBERS (1.5 LBS)
 CONTRACTOR: ROUBION CONSTRUCTION TO BE ORDERED BY CONTRACTOR

CEMENTITIOUS	ASTM TYPE	BRAND	SP/GRAV	S.S.D. WEIGHTS
CEMENT	C150 <u>I/II</u>	<u>LAFARGE</u>	<u>3.15</u>	<u>436</u> LBS.
FLY ASH	C618 <u>C</u>	<u>LAFARGE</u>	<u>2.7</u>	<u>109</u> LBS.
SLAG	C989 <u>120</u>	<u>LAFARGE</u>	<u>2.91</u>	<u>0</u> LBS.

AGGREGATES	ASTM TYPE	MATERIAL	SIZE	SP/GRAV	S.S.D. WEIGHTS
FINE	C33	SAND	<u>MINUS 3/8"</u>	<u>2.62</u>	<u>1226</u> LBS.
COARSE #1	C33	<u>2</u> GRAVEL	<u>1</u>	<u>2.53</u>	<u>1775</u> LBS.
COARSE #2	C33	<u>3</u> PEA GRAVEL	<u>3/8</u>	<u>2.54</u>	<u>0</u> LBS.
LIGHT WT.	C330	EXPANDED CLAY	<u>5/8"</u>	<u>1.4</u>	<u>0</u> LBS.

MIXING WATER ----- POTABLE ----- 250 LBS.

SET	WATER REDUCING ADMIXTURES			A.S.T.M. C-494		DOSAGE PER C.Y.
	TEMP	BRAND	TYPE	MANUFACTURER		
NORMAL	<85 F	ZYLA 620	A	W.R.GRACE		<u>16.35</u> OZS.
RETARDER	>85 F	DARATARD 17	D	W.R.GRACE		<u>10.92</u> OZS.
ACCELERATOR	<50 F	POLARSET	E	W.R.GRACE		<u>0.00</u> OZS.
SUPER P		MIRA 110	F	W.R.GRACE		<u>0.00</u> OZS.

NOTE: NORMAL SET WATER REDUCER DOSAGES VARY ACCORDING TO SEASONAL TEMPERATURES. ADJUSTMENTS ARE BASED ON THE MANUFACTURERS RECOMMENDATIONS. RETARDERS AND ACCELERATORS TO ADJUST SET TIMES AND SUPER P WILL BE USED AT THE CUSTOMERS REQUEST AND ARE PRICED SEPERATELY.

AIR ENTRAINING ADMIXTURE A.S.T.M. C-260

BRAND: DAREX II MANUFACTURER: W.R.GRACE 3 OZS.
 DESIGN AIR CONTENT: 5 %
 W/C RATIO: 0.459 CEMENT EQUIVALENCY 5.80 SACKS YIELD 27.0 CU. FT.

- 1) LAFARGE WILL HONOR STRENGTH INDICATED AT A MAXIMUM 4 " SLUMP.
 (CAUTION: INDIVIDUAL PROJECT SLUMP SPECS MAY BE MORE RESTRICTIVE)
- 2) ICE, WHEN USED FOR TEMPERATURE CONTROL, REPLACES MIXING WATER POUND FOR POUND AND IS PRICED SEPERATELY.
- 3) FOR FLY ASH DESIGNS, W/C (WATER/CEMENTITIOUS) RATIO IS COMPUTED USING CEMENT+FLY ASH PER ACI 211.1.

SUBMITTED BY: 
 E.J. ECKHOLDT, III
 QUALITY ASSURANCE MGR.

DATE: 2/7/2013

LAFARGE CONSTRUCTION MATERIALS
CONCRETE COMPRESSIVE STRENGTH EVALUATION

MIX ID: 93

DESIGN STRENGTH:

SUMMARY OF STRENGTH ANALYSIS (ACI 214):

NUMBER OF TESTS AVERAGED: 16
SPEC. DESIGN STRENGTH (psi): 4,000
AVE. STRENGTH COMPUTED FROM TESTS (psi): 4,832
STANDARD DEVIATION (psi): 235 (EXCELLENT)
COEFFICIENT OF VARIATION (%): 4.85
WITHIN TEST STANDARD DEVIATION (psi): 77
WITHIN TEST COEFFICIENT OF VARIATION (%): 1.59 (EXCELLENT)

SUMMARY OF PERFORMANCE (ACI 318):

STANDARD DEVIATION MODIFICATION FACTOR: 1.14
MODIFIED STANDARD DEVIATION (psi): 268
EQ. USED IN COMPUTATION: $f_c + 2.33s - 500 = 4,125$ psi
 $f_c + 1.34s = 4,360$ psi

ACI 318 REQUIRED AVERAGE STRENGTH (psi): 4,360
OVER DESIGN STRENGTH (psi): 473

TEST NO.	DATE MADE	SLUMP (IN.)	AIR (%)	TEMP °F	7-DAY AVE.(psi)	28 - DAY (psi)	28 - DAY AVE.(psi)	CUM. AVE. (psi)	RANGE (psi)	MOVING 3 AVE.(psi)	CUM. STD. DEV. (psi)	CUM. C OF V(%)	7/28 DAY (%)
1	10/8/2012	3.75	4.0	81	3,840	4,690	4,880	4,785	190	#REF!	#DIV/0!	1.53	80
2	10/8/2012	4	5.0	80	3,780	4,860	4,920	4,838	60	4,705	235	5.00	77
3	10/8/2012	4	5.0	81	3,860	4,420	4,460	4,705	40	4,625	208	4.46	87
4	10/12/2012	4	5.0	86	3,610	4,470	4,620	4,665	150	4,602	193	4.11	79
5	10/12/2012	3.75	5	87	3,490	4,860	4,780	4,696	80	4,822	239	5.01	72
6	10/12/2012	4.25	4	85	3,300	5,090	5,110	4,763	20	4,985	241	5.02	65
7	10/17/2012	4	4.0	79	3,980	5,010	5,060	4,802	50	4,942	227	4.73	79
8	10/17/2012	4.25	4.0	79	3,780	4,600	4,780	4,788	180	4,937	234	4.85	81
9	10/17/2012	4	4.0	80	3,500	5,080	5,090	4,821	10	4,960	238	4.91	69
10	10/19/2012	4	4.0	71	3,120	5,150	5,060	4,850	90	5,110	242	4.97	61
11	10/19/2012	4.25	5.0	72	3,230	5,060	5,220	4,876	160	4,977	238	4.89	63
12	10/26/2012	4	4.0	77	3,590	4,590	4,780	4,860	190	4,810	238	4.92	77
13	10/26/2012	4	5.0	78	3,540	4,630	4,580	4,840	50	4,665	232	4.80	85
14	11/1/2012	3.75	5.0	72	3,980	4,720	4,690	4,831	30	4,633	232	4.81	81
15	11/8/2012	4	4.0	77	3,730	4,630	4,550	4,815	80	4,797	235	4.85	81
16	11/8/2012	4.25	4	76	3,500	5,090	5,100	4,832	10				69

Sieve Analysis - ASTM C 117 and ASTM C 136

Laboratory	Schultz and Summers Engineering, Inc.	Test ID	Eddie Sand
USACE Contract Number		Contractor	
Project		Date	5/24/2010
Source of Material	NA	Visual Description (ASTM D 2485)	Brown Sand
Station	NA	Lift Number	NA
X-Coordinate	NA	Elevation (ft)	NA
Y-Coordinate	NA	Submitted By	Ashley Cravens
Checked By	Justin Defendal		

Materials Finer than No. 200 Sieve - ASTM C 117 (Procedure A)

Original Dry Mass of Sample (g)	328.70
Dry Mass of Sample after Washing (g)	323.70
Material Finer than No. 200 Sieve by Washing (%)	1.52

Sieve Analysis - ASTM C 136

Mass of Sample (g)	323.70	Mass of Material>No.4 Sieve(g)	0.00	USCS Group Name / Symbol	Poorly Graded Sand/SP		
Standard	Sieve Designations	Alternative	Mass Retained (g)	Partial	Percent Retained	Total	Percent Finer by Mass (%)
75		3	0.00	--		--	--
50		2	0.00	--		--	--
37.5		1 - 1/2	0.00	--		--	--
25.0		1	0.00	--		--	--
19.0		3/4	0.00	--		--	--
12.5		1/2	0.00	--		--	--
9.5		3/8	0.00	--		--	--
4.75		No. 4	0.00	--		--	--
	Pan						
2.36		No. 8	0.10	0.03		0.03	99.97
2.00		No. 10	0.00	--		--	--
1.18		No. 16	0.60	0.18		0.21	99.79
0.850		No. 20	0.00	--		--	--
0.600		No. 30	0.00	--		--	--
0.425		No. 40	0.50	0.15		0.37	99.63
0.300		No. 50	0.00	--		--	--
0.250		No. 60	0.00	--		--	--
0.150		No. 100	0.00	--		--	--
0.106		No. 140	0.00	--		--	--
0.075		No. 200	318.80	96.99		97.35	2.56
	Pan		3.40				

Remarks:



Diamond

AGGREGATES

Source/Plant: Diamond Aggregates

Classification: Concrete Sand

Sample Type: _____

SIEVE	WEIGHT RETAINED	CUM. % RETAINED	% PASSING	LDH REQ.	ASTM C-33 REQ.
3/8"	0	0.0%	100.0	100	100
#4	1	0.2%	99.8	95-100	95-100
#8	62.7	9.9%	90.1		80-100
#16	130.1	20.5%	79.5	45-90	50-85
#30	262.4	41.3%	58.7		25-60
#50	574.6	90.4%	9.6	7-30	
#100	633.7	99.7%	0.3	0-7	5-30
#200	635.6	100.0%	0.0	0-3	0-10
Pan	635.8	100.0%			
Total Wt.	635.8	1	F.M.	2.62	

Date: 01/02/13

Time: 8:30 AM

Tested By: Carley King

SIEVE	Ind. Wt RETAINED	Ind. % RETAINED			
3/8"		0.0%			
#4		0.0%			
#8		0.0%			
#16		0.0%			
#30		0.0%			
#50		0.0%			
#100		0.0%			
#200		0.0%			
Pan		0.0%			
Total Wt		0.0%			



RCP AND RCAP

DRAINAGE STRUCTURES

SANITARY SEWER MANHOLES

ELECTRICAL / COMM. MANHOLES

LIFT STATIONS

SEPTIC TANKS

GREASE INTERCEPTORS

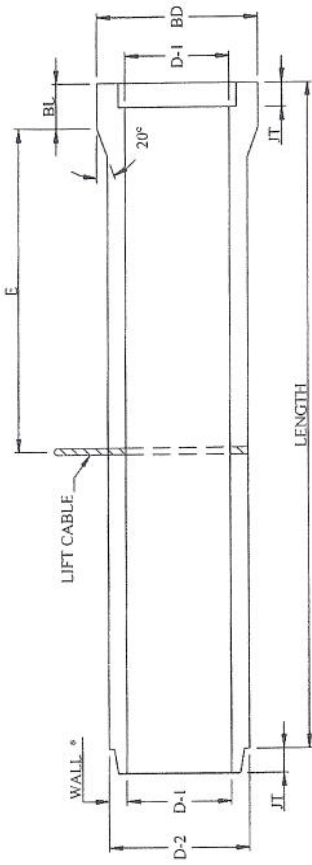
HEADWALLS

ALL PRODUCT IS PRODUCED FROM THESE SUBMITTALS.
ALL SUBMITTAL DRAWINGS FOR THIS PROJECT MUST
BE SIGNED APPROVED AND RETURNED TO DESIGN
PRECAST AND PIPE BEFORE PRODUCTION CAN BEGIN

SPECIALIZING IN PRECAST CONCRETE PRODUCTS

PREPARED FOR: ROUBION CONSTRUCTION CO., INC.

PROJECT NAME: SIDEWALK DRAINAGE IMPROVEMENTS - SLIDELL, LA

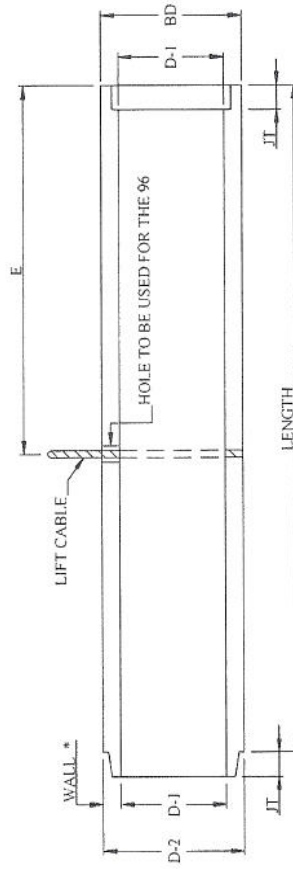


* WALL THICKNESS VARIES FROM END TO END DUE TO TAPER IN FORM JACKET

SIZE	WALL *	LENGTH	JT	D-1	D-2	BD	BL	E
15	2 - 1/4	8'-0"	3 - 1/2	15	19 - 1/2	23 - 1/8	6 - 1/2	46 - 1/2
18	2 - 1/2	8'-0"	3 - 1/2	18	23	26 - 5/8	6 - 1/2	46 - 3/8
24	3	8'-0"	3 - 1/2	24	30	32 - 5/8	7	47 - 3/8
30	3 - 1/2	8'-0"	3 - 1/2	30	37	39 - 1/2	7	47 - 5/8
36	4	8'-0"	3 - 1/2	36	44	45 - 5/8	7	48 - 1/4
42	4 - 1/2	8'-0"	4	42	51	52	7	48 - 11/16

B WALL CLASS III, IV & V PER ASTM C76

15" DIA. - 42" DIA. RCP



* WALL THICKNESS VARIES FROM END TO END DUE TO TAPER IN FORM JACKET

SIZE	WALL *	LENGTH	JT	D-1	D-2	BD	E
48	5	8'-0"	4 - 1/4	48	58	58	49 - 1/8
54	5 - 1/2	8'-0"	4 - 1/4	54	65	65	47 - 1/4
60	6	8'-0"	4 - 3/4	60	72	72	47 - 1/2
72	7	8'-0"	5	72	86	86	48 - 7/8
96	9	6'-0"	7 1/2	96	114	114	36

B WALL CLASS III, IV & V PER ASTM C76

48" DIA. - 72", 96" DIA. RCP

CK Hamilton Kent

make the connection

Tylox®
SuperSeal™
Pre-Lubricated
Gasket

Say *Goodbye* to the lube bucket and brush
Say *Hello* to fast, clean, simple installation

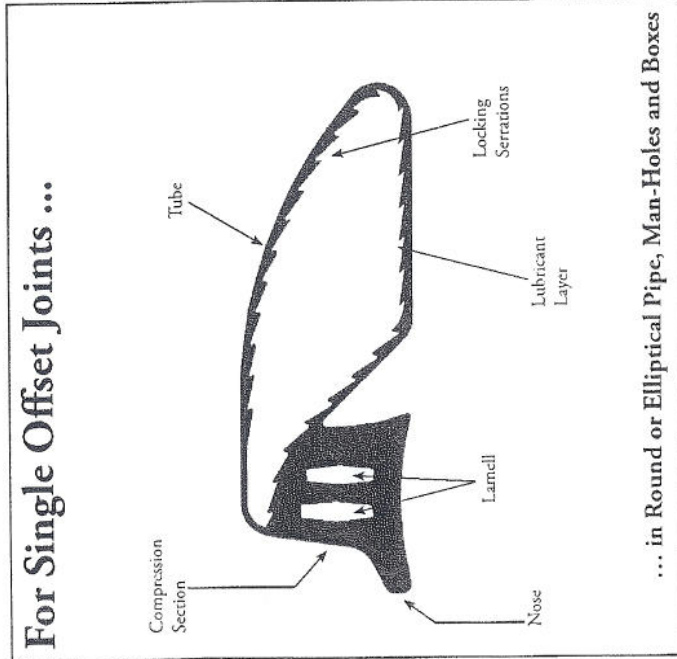
Requiring no field lubrication, the Tylox® SuperSeal™ gasket* has a layer of silicone lubricant installed on the inner surface of the tube during the manufacturing process; saving you time, and money, on the job-site.

Self-contained Lubricant. Sealed within the tube, the lube is impervious to mud, dirt and debris. If you drop it in the trench, simply wipe the gasket surface clean and you're ready to install. No special handling or packaging is required.

Easier installation, without equalization, is made possible due to the reduced gasket stretch required by the unique lamell/rolling tube design. Quick and easy to install means you save even more time.

No gasket "roll" or "twist" during coupling is another benefit of the unique lamell/rolling tube design, which reduces the insertion force required. Manual coupling of up to 36" pipe is possible.

For Single Offset Joints ...



... in Round or Elliptical Pipe, Man-Holes and Boxes

Self-Centering of the Spigot within the Bell is carried out as the tube rolls into the annular space during the homing process. **ASTM C443, ASTM C361, AASHTO M198.4 and CSA A-257** material requirement compliance.

Elimination of Joint Kick Back, is caused by the rearward locking action of the serrations as the tube rolls forward

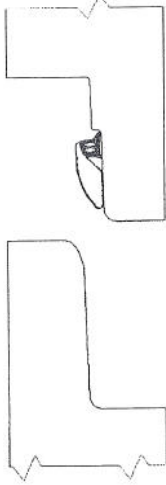
Bell and Spigot protection under deflection is accomplished by the cushioning effect of the tube, as it rests within the annular space.

Pipe sizes to 144" can be accommodated.

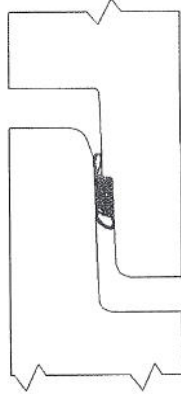
INSTALLATION

Ensure Bell, Spigot and Gasket are free from loose debris or foreign material.

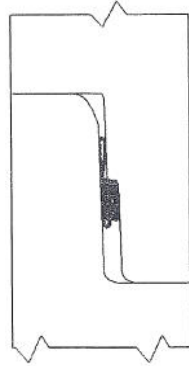
Stretch the gasket around the spigot, with the nose against the step, and the tube laying flat against the spigot. **DO NOT LUBRICATE.**



Align the spigot with the bell, and thrust the spigot home using suitable mechanical means. The homing process will cause the lubricated tube to "roll" over itself, above the compression section, allowing the pipe to slide forward.



Once fully homed, the compression section seals the total annular space; the rolling tube comes to rest within the small annular space - acting as a cushion against side loads, and the serrations act to resist pipe pull-out.



MATERIALS

Tylox® SuperSeal™ gaskets* are available in the following materials:

- Isoprene
- Optional Materials
- Nitrile (Oil Resistant)
- Isoprene / EPDM blend (Ozone Resistant)
- Neoprene (Oil and Ozone Resistant)

Other materials may be available as special order.
Consult your Hamilton Kent agent for your specific requirements.

SPECIFICATIONS

Tylox® SuperSeal™ gaskets* are manufactured to meet the material requirements of the following specifications:

- ASTM C361
- ASTM C443
- AASHTO M198.4
- CSA A257
- "Green Book"

Other specifications may be available as special order. Please consult your Hamilton Kent agent for your specific requirements.

CONTACT US

Hamilton Kent

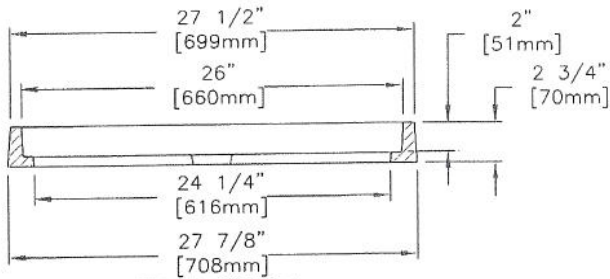
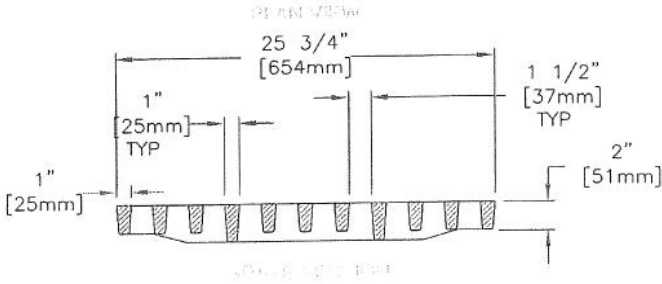
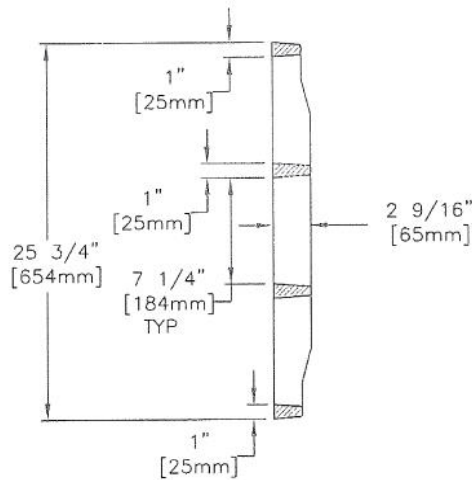
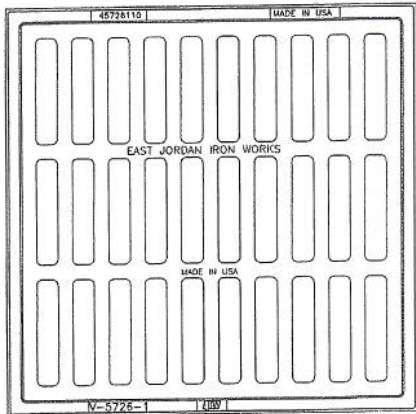
77, Carlingview Drive
Toronto, Ontario, Canada,
M9W 5J6

Phone (800) 268-8479

Fax (888) 674-6960

Web-Site www.hamiltonkent.com
E-Mail sales@hamiltonkent.com

*Tylox SuperSeal Gaskets are patented under US Patent 4934716



CONFIDENTIAL: This drawing is the property of East Jordan Iron Works, Inc. and embodies confidential information, trade secret information, and/or know how that is the property of East Jordan Iron Works, Inc. © Copyright 2005 East Jordan Iron Works, Inc.

EJIW EAST JORDAN
IRON WORKS EST. 1883

800-626-4653
www.ejiw.com
MADE IN USA

PRODUCT NUMBER
45726100

CATALOG NUMBER
V-5726
V-5726-1

V5726-1
ASSEMBLY

LOAD RATING
HEAVY DUTY

COATING
UNDIPPED

ESTIMATED WEIGHT
GRATE: 172 LBS 78kg
FRAME: 80 LBS 36kg
UNIT: 252 LBS 114kg

MATERIAL SPECIFICATION
GRATE - GRAY IRON
ASTM A48 CL35B
FRAME - GRAY IRON
ASTM A48 CL35B

OPEN AREA
321 sq.in.

√ DESIGNATES MACHINED SURFACE

DRAWN TCL	DATE 00/05/02
--------------	------------------

LAST REVISED DEW	DATE 10/16/07
---------------------	------------------

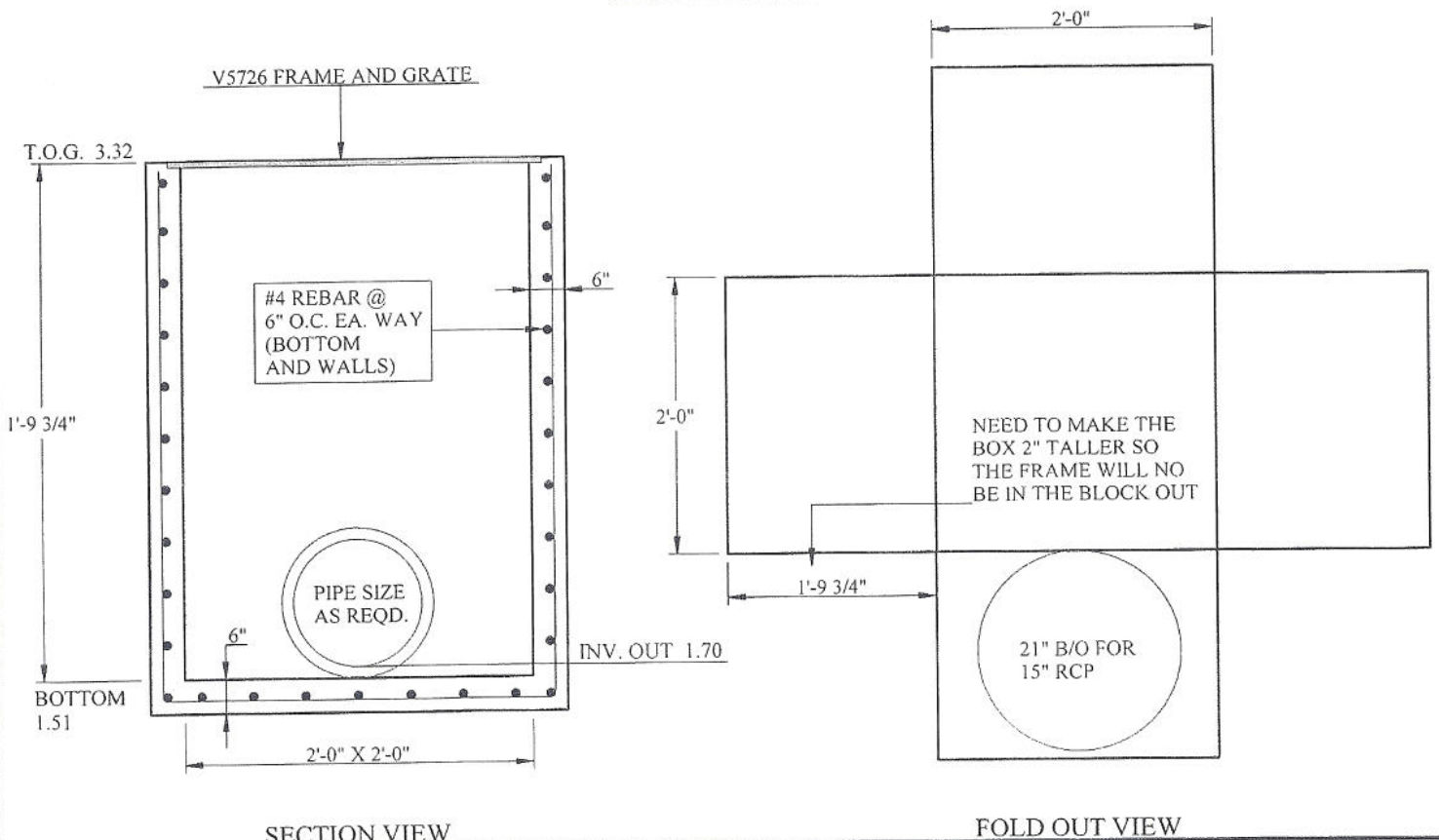
REFERENCE INFORMATION

45726030
45726110

PLEASE VERIFY THAT ALL ELEVATIONS, PIPE SIZES, WALL/ BASE THICKNESS, CASTING AND ETC. IS CORRECT

- NOTES:
1. CONCRETE TO BE 4000 PSI IN 28 DAYS
 2. REINFORCE WITH #4 GRADE 60 @ 6" O.C.E.W.
 3. NOT TO SCALE

APPROVED FOR FABRICATION: _____
 APP. FOR FABRICATION WITH CHANGES: _____
 RESUBMIT: _____



SECTION VIEW

FOLD OUT VIEW

PROJECT NAME: SIDEWALK IMPROVEMENTS
 SLIDELL, LA
 CONTRACTOR: ROUBION CONSTRUCTION

PRECAST CATCH BASIN
 CB # 1



P.O. BOX 2401
 GULFPORT, MS 39505
 PHONE: (228)831-5833
 FAX: (228)831-2791
 www.designprecast.com