

# Question & Answer #1



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Tacoma, WA 98401-1837  
www.portoftacoma.com

## OCT TRENCH DRAIN PROJECT NO. 091573 | CONTRACT NO. 070154

### 1. BIDDER QUESTION

Is a bid bond required for the OCT trench drain project?

#### RESPONSE

No bid bond is required when submitting a bid for this project.

### 2. BIDDER QUESTION

I have perused both the plans and specifications looking for the concrete spec for the infill around the trench drain. I cannot find any spec for concrete?

Please provide a concrete spec.

#### RESPONSE

See Addendum No. 01 - Drawing Sheets G2.0 and C2.1

### 3. BIDDER QUESTION

Please reference SHT C2.3 detail F. You'll note that the detail calls out for a cut in to the existing 18 pipe.

Question #1 – what is the pipe type? DI, PVC, CPEP, etc.?? Sheet C1.1 shows the drain to be 18"corrugated at the west CB and 15"di at the east CB. C2.0 shows the line as being 18" PVC?

These components that make up the connection are very expensive and non-returnable so it's very important to have the correct information before we bid this work.

Question #2 – is the POT handling survey/layout or is this the contractors work?

#### RESPONSE

1. See Drawing C2.3, Section C/C2.0.

2. See Drawing G2.0, Note 3.

### 4. BIDDER QUESTION

Attached is a substitution request and supporting product data sheets for OTC Trench drain job bidding next week.

#### RESPONSE

Substitution is not approved, see Attachment A to this Q&A No. 01

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS  
SECTION 00 63 25 - SUBSTITUTION REQUEST FORM DURING CONSTRUCTION

Project Title: OCT TRENCH DRAIN  
Submitted By: JIM SULLIVAN  
Contractor: NORCOE, INC

Project No. 091573  
Contract No. 076154  
Date: 2/14/2016

Specification Title: STORM DRAINAGE UTILITIES  
Description: TRENCH DRAIN + ASSOCIATED  
CATCH BASIN

Section No. 2.02  
Paragraph: B  
Page No. 153

Proposed Substitution: Polycast by HUBBELL Corp.

Trade Name: 600 SERIES

Model No.: 600 channel with  
675HD ductile ADA GRATE

Manufacturer: HUBBELL - Polycast

Address: 3621 - INDUSTRIAL PARK DRIVE Phone No.: 865-635-2176  
LENOIR CITY, TN 37771

Installer: TBD

Address: -

Phone No.: -

History:

☐ New product ☐ 1-4 years old ☐ 5-10 years old ☒ More than 10 years old ☐ Other \_\_\_\_\_

Differences between proposed substitution and specified product: 4 FOOT SECTIONS VS. METERS  
NO FRAME BEING SUBMITTED AS THERE IS NO VEHICULAR TRAFFIC GOING OVER  
THE TRENCH

☐ Point-by-point comparative data attached - REQUIRED

Reason for not providing specified item: COST

Similar Installation:

Project: CRUISE BOAT TERMINAL A/E Port of Seattle

Address: PIER 90/91

Owner: Port of Seattle Date Installed: 11/2008

Proposed substitution affects other parts of Work: ☒ No ☐ Yes; explain \_\_\_\_\_

Savings to Port for accepting substitution: \$ 10,000

Proposed substitution changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] \_\_\_\_\_ # of days.

Supporting Data Attached: \_\_\_\_\_

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS  
SECTION 00 63 25 - SUBSTITUTION REQUEST FORM DURING CONSTRUCTION

☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ Other \_\_\_\_\_

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted By: TIM SULLIVAN

Signed By: John Sullivan

Firm: NORCOE, INC REPRESENTING POLYCAT

Address: 2136-4<sup>th</sup> AVE WEST

SEATTLE, WA 98119

Telephone: 206-484-8236

Email: NORCOE@MSN.COM

Attachments: \_\_\_\_\_

A/E's REVIEW AND RECOMMENDATION

☐ Approve Substitution

☐ Approve Substitution as noted

☒ Reject Substitution - Use specified materials. **INTERIOR WIDTH DOES NOT MEET SPEC.**

☐ Substitution Request received too late - Use specified materials.

Signed by: Z. H. W.

Date: 2-17-2016

ENGINEER'S REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. Prepare Change Order.

☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures. Prepare Change Order.

☐ Substitution rejected - Use specified materials.

Signed by: C. H. W.

Date: 2/17/16

END OF SECTION



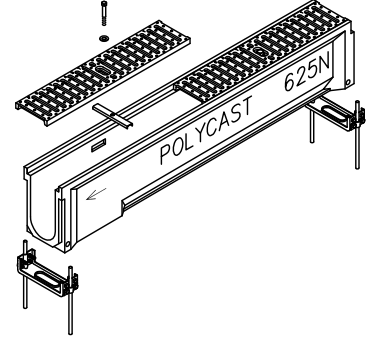
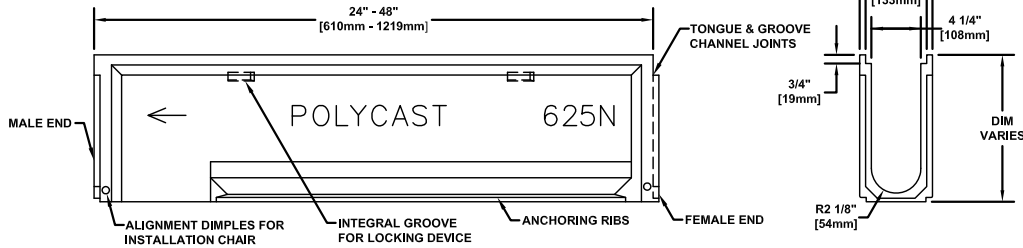
PROJECT ID/  
CONTRACT NO: \_\_\_\_\_

## 600 Series Pre-Sloped Trench Drain System

LOCATION: \_\_\_\_\_

### ENGINEERING SPECIFICATION:

POLYCAST® 600 Series Pre-Sloped Trench Drain System is a .65% sloped trench drain, with 6 1/4" [159mm] wide x a nominal 48" [1219mm] long (standard) polyester polymer concrete channels with tongue and groove connections. Channels 605/610/615/620/625 and non-sloping (neutrals) will be supplied with drill outs for a 4" [102mm] bottom outlet. Grating locking devices, installation chairs and end caps with a 4" [102mm] drain drill out as required. Installation chairs are recommended for installation of drainage channels.



<input checked="" type="checkbox"/> Channel Number	Part No.
<input type="checkbox"/> Polyester Concrete Channels	DP06 __
<input type="checkbox"/> Vinyl Ester Concrete Channels	DV06 __

Grate Options (Select One)		
<input checked="" type="checkbox"/> Grate Type	Part No.	DIN Load Class
<input type="checkbox"/> Galvanized Steel Solid (ADA Compliant)	DG0645	Class A
<input type="checkbox"/> Galvanized Steel Perforated (ADA Compliant)	DG0646	Class A
<input type="checkbox"/> Stainless Steel Perforated (ADA Compliant)	DG0657	Class A
<input type="checkbox"/> Stainless Steel Solid (ADA Compliant)	DG0667	Class A
<input type="checkbox"/> Galvanized Steel Slotted	DG0640	Class B
<input type="checkbox"/> Plastic Coated Galvanized Sheet	DG0640C	Class A
<input type="checkbox"/> Stainless Steel Slotted	DG0647	Class A
<input type="checkbox"/> DURAGUARD® Slotted	DG0670	Class A
<input type="checkbox"/> DURAGUARD® Longitudinal (ADA Compliant)	DG0675	Class A
<input type="checkbox"/> Fiberglass (5/8" Spacing)	DG0644	Class B
<input type="checkbox"/> Double Galvanized Steel Slotted	DG0640R	Class C
<input type="checkbox"/> Fiberglass (3/8" Spacing)	DG0644SP	Class C
<input type="checkbox"/> Double Galvanized Steel Solid (ADA Compliant)	DG0645R	Class C
<input type="checkbox"/> Double Galvanized Steel Perforated (ADA Compliant)	DG0646R	Class C
<input type="checkbox"/> Double Stainless Steel Slotted	DG0647R	Class C
<input type="checkbox"/> Double Stainless Steel Perforated (ADA Compliant)	DG0657R	Class C
<input type="checkbox"/> Double Stainless Steel Solid (ADA Compliant)	DG0667R	Class C
<input type="checkbox"/> Abbott, Decorative Iron	DG0693	Class C
<input type="checkbox"/> Patriot, Decorative Ductile Iron	DG0692	Class C
<input type="checkbox"/> Spiral Decorative Ductile Iron	DG0694	Class C
<input type="checkbox"/> Cobblestone, Decorative Ductile Iron	DG0695	Class C
<input type="checkbox"/> Cast Iron Slotted	DG0641	Class C
<input type="checkbox"/> Ductile Iron Slotted	DG0641D	Class D
<input type="checkbox"/> Ductile Iron Longitudinal Slotted (ADA Compliant)	DG0675HD	Class D
<input type="checkbox"/> Cast Iron Solid (ADA Compliant)	DG0675HD	Class D

<input checked="" type="checkbox"/> Options (Select All That Apply)	Part No.	Additional Specifications:
<input type="checkbox"/> Galvanized Steel POLYGUARD	DA0620A	
<input type="checkbox"/> Stainless Steel POLYGUARD	DA0620B	
<input type="checkbox"/> Drain End Cap (6" Outlet)	DA0620D6	
<input type="checkbox"/> Installation Alignment Chair	DA0633	
<input type="checkbox"/> Locking Device For Galvanized & DURAGUARD® Grates	DA0642	
<input type="checkbox"/> Locking Device For Cast & Ductile Iron Grates	DA0642B	
<input type="checkbox"/> Locking Device For Fiberglass Grates	DA0642F	
<input type="checkbox"/> Locking Device For Stainless Steel Grates	DA0642S	
<input type="checkbox"/> 6 1/4 x 24 Catch Basin	DP0650	
<input type="checkbox"/> 12 x 24 Catch Basin	DP0651	
<input type="checkbox"/> 24 x 24 Open Bottom Catch Basin	DP0653OB	
<input type="checkbox"/> 24 x 24 Solid Bottom Catch Basin	DP0653SB	
<input type="checkbox"/> Extender Panels	DP0660	
<input type="checkbox"/> Shovel Head	DA0661	
<input type="checkbox"/> 4" Strainer (For Bottom/End Outlet)	DA0662	
<input type="checkbox"/> End Cap (Inlet/Outlet)	DA0670M/DA0670	
<input type="checkbox"/> Channel Adaptor (Male/Female)	DP0699M/DP0699F	

### Meets the following Standards & Specifications:

- DIN 19580 / DIN EN 1433 Drainage Channels for Vehicular and Pedestrian Areas
- AASHTO H-20 and H-25 per AASHTO M-306 Drainage, Sewer, Utility and Related Castings
- ASTM Standard D543, Test Method for Resistance of Plastics to Chemical Reagents
- ASTM Standard D570, Test Method for Water Absorption of Plastic
- ASTM Standard D576, Practice for Determination of Weight and Shape Change of Plastics Under Accelerated Service Conditions
- ASTM Standard G53, Recommended Practice for Operating Light and Water Exposure Apparatus for Exposure of Non-Metallic Materials
- ASTM Standard C78, Test Method for Flexural Strength of Concrete
- ASTM Standard C579, Test Method for Compressive Strength of Chemical Resistant Mortars and Monolithic Surfacing's



www.polycastdrain.com  
Toll Free Number:  
1-800-346-3062



**DG0675HD**

600 Series

Ductile Iron Longitudinally Slotted

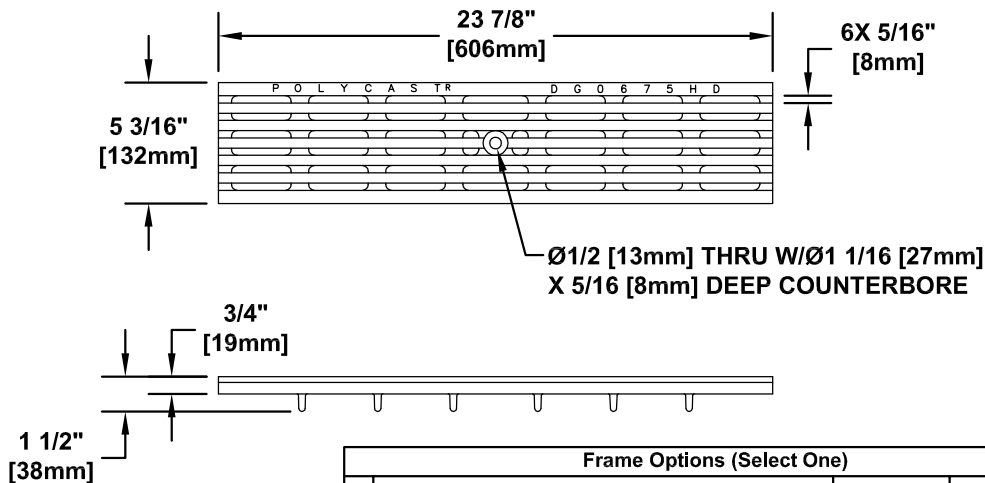
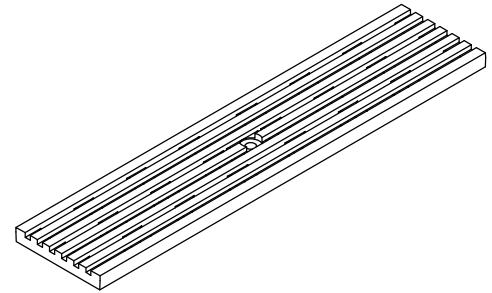
PROJECT ID/

CONTRACT NO: \_\_\_\_\_

LOCATION: \_\_\_\_\_

**ENGINEERING SPECIFICATION:**

POLYCAST® DG0675HD is appropriate for many general use conditions. Grating locking device Part No. DA0642B (not shown) should be used and maintained secure. The grate has 26% (32in²) of open area. The grate is made of ASTM A536 GR. 65-45-12 (ductile iron) and weighs approximately 15lbs [6.80kg]. The grate is only available in a 24" [610mm] length. The grate meets Load Class D when used alone in a 600 Series channel. If grate is used in conjunction with a DG0970 frame it meets Load Class E, a DG0700AA frame then meets Load Class E and a DG0700PE Frame it meets Load Class E.



Frame Options (Select One)			
<input checked="" type="checkbox"/> Frame Type	Part No.	DIN Load Class	
<input type="checkbox"/> DURAGUARD® Composite Frame	DG0700PE	Class E	
<input type="checkbox"/> HARDNOSE Iron Frame	DG0700AA	Class E	
<input type="checkbox"/> Iron Frame (w/4 anchoring rods)	DG0970	Class E	
<input checked="" type="checkbox"/> Options (Select All That Apply)	Part No.	Additional Specifications:	
<input type="checkbox"/> Locking Device For Cast & Ductile Iron Frames & Grates	DA0642BH		
<input type="checkbox"/> Stainless Steel Locking Device	DA0642BHS		
<input type="checkbox"/> Locking Device For Ductile Iron Frames & Grates	DA0942		
<input type="checkbox"/> Stainless Steel Locking Device	DA0942S		



**DIN APPLICATION LOAD CLASS D:**

Trafficked sections of roads and highways

Designed for a distributed pressure of 89,920 lbs (400 kN).

Meets the following Standards & Specifications:

- DIN 19580 / DIN EN 1433 Drainage Channels for Vehicular and Pedestrian Areas
- The Americans with Disabilities Act of 1990: 4.5.4
- Australian Standard AS 3996-2006 Clause 3.3.6



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1-800-346-3062

PC-51  
9/6/11