

**SPECIAL MEETING OF CITY COUNCIL
FEBRUARY 2, 2018 – 3:00 PM
MUNICIPAL COURTROOM
GEORGETOWN, SOUTH CAROLINA**



Notice of this meeting has been made in accordance with the 1976 Code of Laws of South Carolina Freedom of Information Act.

1. CALL TO ORDER

2. ANNOUNCEMENT CONCERNING ELECTRONIC DEVICES

3. ENGINEERING

- A. Motion to approve purchase and payment to Green Wave Contracting Inc. in the amount of \$15,726.60 representing Change Order Number 2 on CDBG Phase 1 Drainage Project for demolition and installation of 30 LF of sanitary sewer, set-up, operate and take-down bypass pump for a period of 30 days.**

Attachments:

- | | | |
|---|----------------------------------|-------|
| 1 | Rev. Change Order Request No. 2 | (PDF) |
| 2 | Change Order no. 2- drawing.docx | (PDF) |

- B. Motion to approve purchase and payment to Green Wave Contracting Inc. in the not to exceed amount of \$77,910.00 representing Change Order Number 3 on CDBG Phase 1 Drainage project for additional 60-in. casing, 48-in. carrier pipe and junction box 1 and 2 size revisions.**

Attachments:

- | | | |
|---|---|-------|
| 1 | Rev. Change Order Request No. 3 | (PDF) |
| 2 | JB 1 2 Price Justification | (PDF) |
| 3 | JB 1 JB 2 Drawings | (PDF) |
| 4 | 60493544-Base_Ph-1-Conformed-10-17-17-Pipe Plan-1 | (PDF) |

- C. Motion to approve purchase and payment to CP&G General Contractors in the amount of \$18,513.00 representing Change Order Number 1 on East Bay Park Bathroom Project.**

Attachments:

- | | | |
|---|-------------------------------|-------|
| 1 | Change order with submittal | (PDF) |
| 2 | Architect's CO review | (PDF) |
| 3 | EBP Restroom Photos 1.31.2018 | (PDF) |

4. ADJOURNMENT

- A. Motion to adjourn Special Meeting of City Council.**



120 North Fraser Street • Georgetown, SC 29440 • (843) 545-4000

ACTION ITEM

DOC ID: 2454

Council Meeting Date:	2 February 2018
Department:	Engineering
Issue Under Consideration:	Motion to approve purchase and payment to Green Wave Contracting Inc. in the amount of \$15,726.60 representing Change Order Number 2 on CDBG Phase 1 Drainage Project for demolition and installation of 30 LF of sanitary sewer, set-up, operate and take-down bypass pump for a period of 30 days.
Amount Requested:	\$15,726.60
Is Item in Current Budget?	No
If no, please explain:	No contingency has been allocated for change orders
Financial Impact:	
Points to Consider:	This is work is necessary to excavate for the 60-in. casing pit located on the south side of railroad tracks.
Options:	Plug sewer line at manhole but this will most likely cause major backups to upstream residences.
Staff Recommendation:	Approve change order

Reviews:

Orlando Arteaga Completed 01/31/2018 2:17 PM
 Paul Gardner Completed 01/31/2018 2:44 PM
 Debra Bivens Completed 01/31/2018 4:00 PM
 Ann U. Mercer Completed 01/31/2018 4:26 PM
 Georgetown City Council Pending 02/02/2018 3:00 PM

Attachments:

1. 1 Rev. Change Order Request No. 2 (PDF)
2. 2 Change Order no. 2- drawing.docx (PDF)



CHANGE ORDER REQUEST

Storm Drainage Improvements - Phase I

Change Order No. 2

Date: January 29, 2018

Description of Changes:

1. Demo & reinstall approx 30 LF of existing sewer line.
2. Sewer bypass on N. Congdon St.

Proposed Prices:

Line Item	Qty	Unit	Description	Unit Price	Total
84	1	LS	Demo & reinstall approx. 30 LF of existing sewer	\$ 5,600.00	\$ 5,600.00
85	1	EA	Sewer Bypass Pump Rental (1 Month)	\$ 4,626.60	\$ 4,626.60
86	1	EA	Assembly/Disassembly of Pump	\$ 1,000.00	\$ 1,000.00
87	1	LS	Fuel & Management of Pump (1 Month)	\$ 4,500.00	\$ 4,500.00
					\$ 15,726.60

TOTAL AMOUNT OF CHANGE ORDER

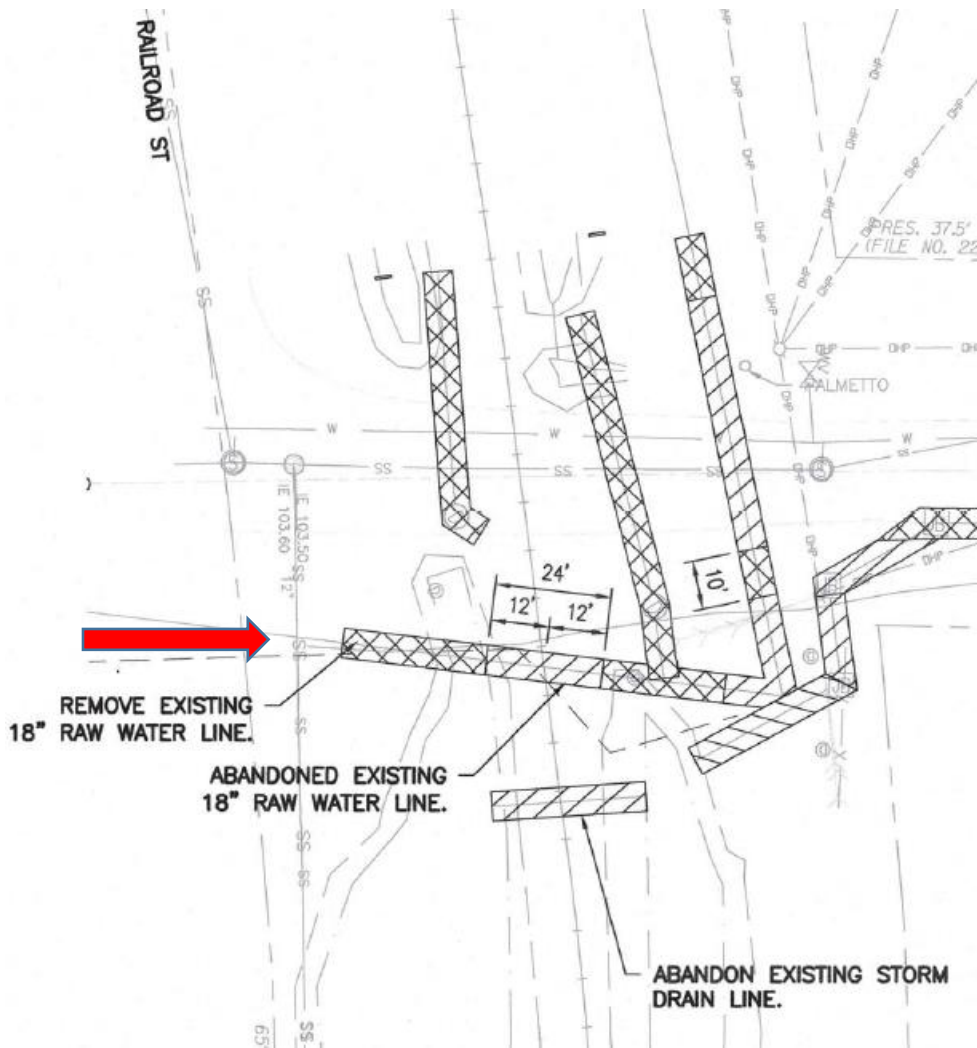
\$ 15,726.60

Notes:

1. The above change order request is for 30 calendar days.
2. Pump rental and fuel/management prices will be prorated if pump is needed less than/more than 30 calendar days.

Green Wave Contracting, Inc.
5888 Highmarket St.
Georgetown, SC 29440
Phone (843) 485-4203

Attachment: Rev. Change Order Request No. 2 (2454 : Approval of construction change order #2 from Green Wave Contracting)



Arrow points to location of sewer line



120 North Fraser Street • Georgetown, SC 29440 • (843) 545-4000

ACTION ITEM

DOC ID: 2455

Council Meeting Date:	2 February 2018
Department:	Engineering
Issue Under Consideration:	Motion to approve purchase and payment to Green Wave Contracting Inc. in the not to exceed amount of \$77,910.00 representing Change Order Number 3 on CDBG Phase 1 Drainage project for additional 60-in. casing, 48-in. carrier pipe and junction box 1 and 2 size revisions.
Amount Requested:	Not to exceed \$77,910.00
Is Item in Current Budget?	No
If no, please explain:	No contingency money was allocated in current budget
Financial Impact:	
Points to Consider:	This change order includes changes to junction box size and additional 60-in. steel casing pipe and 48-in, HDPE carrier pipe.
Options:	1. Junction box price increase is still subject to negotiation with the contractor. 2. Cost of casing pipe and carrier pipe assumes worse case conditions and actual field length may not exceed 116 lineal feet. Payment of casing pipe and carrier pipe will be based on actual field measurements.
Staff Recommendation:	Approve not to exceed amount and allow negotiations with contractor.

Reviews:

Orlando Arteaga Completed 01/31/2018 2:20 PM
 Paul Gardner Completed 01/31/2018 2:46 PM
 Debra Bivens Completed 01/31/2018 4:01 PM
 Ann U. Mercer Completed 01/31/2018 4:29 PM
 Georgetown City Council Pending 02/02/2018 3:00 PM

Attachments:

1. 1 Rev. Change Order Request No. 3 (PDF)
2. 2 JB 1 2 Price Justification (PDF)
3. 3 JB 1 JB 2 Drawings (PDF)
4. 4 60493544-Base_Ph-1-Conformed-10-17-17-Pipe Plan-1 (PDF)

Updated: 1/31/2018 2:56 PM by Ann U. Mercer (Page 1)



CHANGE ORDER REQUEST

Storm Drainage Improvements - Phase I

Change Order No. 3

Date: January 30, 2018

Description of Changes:

1. Junction Boxes 1 & 2 size change due to CSX requirements.
2. Addition of 24 foot to Jack & Bore 60" Steel Pipe Casing.
3. Additional 24 foot of 48" HDPE in casing installed

Current Prices:

Line Item	Qty	Unit	Description	Unit Price	Total
13	1	EA	Junction Box No. 1 Structure	\$ 33,600.00	\$ 33,600.00
14	1	EA	Junction Box No. 2 Structure	\$ 34,650.00	\$ 34,650.00
28	100	LF	Jack & Bore 60" Steel Pipe Casing	\$ 2,415.00	\$ 241,500.00
74A	100	LF	48" HDPE in Casing (Installed)	\$ 85.72	\$ 8,572.00
74B	100	LF	48" HDPE in Casing (Stored)	\$ 114.28	\$ 11,428.00
					\$ 329,750.00

Updated Prices:

Line Item	Qty	Unit	Description	Unit Price	Total
13	1	EA	Junction Box No. 1 Structure	\$ 41,700.00	\$ 41,700.00
14	1	EA	Junction Box No. 2 Structure	\$ 41,700.00	\$ 41,700.00
28	124	LF	Jack & Bore 60" Steel Pipe Casing	\$ 2,415.00	\$ 299,460.00
74A	124	LF	48" HDPE in Casing (Installed)	\$ 85.72	\$ 10,629.28
74B	124	LF	48" HDPE in Casing (Stored)	\$ 114.28	\$ 14,170.72
					\$ 407,660.00

TOTAL AMOUNT OF CHANGE ORDER

\$ 77,910.00

Green Wave Contracting, Inc.
 5888 Highmarket St.
 Georgetown, SC 29440
 Phone (843) 485-4203

Attachment: Rev. Change Order Request No. 3 (2455 : Approval of construction change order #3 from Green Wave Contracting Inc.)



We are committed to making Concrete Pipe & Precast the preferred supplier for our customers by delivering outstanding value, continuous innovation, and an exceptional customer experience by consistently fulfilling our promise: "Not Just Concrete, Concrete Solutions."

3.B.2

*** PER REVISED PLANS ***

DATE: 12/19/17 COUNTY: GEORGETOWN, South Carolina BID Date: 8/30/2017
 PROJECT: Storm Drain Improvements For City of Georgetown Ph. 1 PROJECT #: _____
 BIDDER: GREEN WAVE CONTRACTING, INC D.O.P: 11/7/2016
 Quote: CQ-87968

We are pleased to quote the following prices for the above referenced project:

Structure #	Quantity	Description	Height	Size/Dia.	Price	Extended Price
JB1, JB2	2	Junction Box 144" x 72" ID with: 8" Walls, 6" Extended x 8" Thick Base Slab, Steps, Preformed pipe openings as required & Bid with USFTPS300-36" x 48" Aluminum Pedestrian Rated Hatch Cast In: TRAFFIC RATED HATCH			\$10,935.00 + 455.00 <u>\$11,390.00</u>	\$21,870.00
All prices are subject to applicable taxes.					Structure Total:	\$21,870.00
AIS Requirement Compliance Documentation					Total Structures:	2
7% of subtotal <u>\$1,530.90</u>						

Pipe is quoted to DOT standards. Joint material for round and elliptical pipe is included in the per foot price, except where noted. Prices are for (ASTM-C-76) Reinforced Concrete Pipe "non-tested for leak resistance." If any kind of pressure testing (in plant or in field) is required these prices are null and void. The quotation is for our standard 8'0" joint length and does not include any fittings, cut skews, or shorts. Please contact our sales team for additional cost of these items or tested pipe if required.

Storm Structure Notes: Storm Structures are quoted to DOT standards. All drop inlets include frames and grates or frames and covers as required, unless otherwise noted. Prices do not include flexible connectors for HDPE pipe. If flexible connectors are required, structures may need to be modified (both diameter and height).

Sanitary Notes: Sanitary Manholes are quoted to ASTM C-478 and local jurisdiction standards. Precast inverts are included in the prices of the Sanitary Manholes, unless otherwise noted. Manhole steps (if required), flexible boot connectors and joint sealants are included in the price of the structures. Frames and covers are not included in the structure prices unless specifically noted.

Stormwater Notes: Price is for concrete structure only. Prices exclude frames, grates, trash racks, hand rails, guide rails, orifice plates, diversion grates, hatches, coatings, ladders, fall protection system and other components involved with structures unless stated on this quote. It will be the contractor's responsibility to make the joints watertight. Structure design is subject to Engineer's approval.

A fee will be assessed for processing and handling (\$250 for hatches; \$150 for sleeves, clean outs, etc...) of customer supplied embeds. For post production casting of customer supplied Thimbles, etc..., there will be a \$1,000 per 'thimble' fee for planting casting.

Min Hgt to Precast = too shallow to precast as shown on the plans. Contractor's responsibility to validate with the Engineer that the design can change to use the precast structure prior to production release.

Please notify CP&P immediately if any item must comply with any American Iron and Steel (AIS) requirements. CP&P must be notified prior to fabrication and, in accordance with the Act, fees may/will be charged for the additional requirements and necessary compliance documentation.

Production facilities are NPCA certified. CP&P is not PCI certified.

Prices and quantities are estimated. It is the Contractor's responsibility to confirm that this quote is in compliance with all job plans and specifications, including revisions and current addenda. During the course of construction, situations may occur that prevent the use of precast. Under such circumstances, we will not be obligated or held responsible for furnishing those structures. Should these circumstances cause the altering of the quoted structure size and/or type, we reserve the right to renegotiate prices for such changes.

All modified and special design structures and pipe prices are contingent upon approval of our design and specifications. A \$500 engineering fee (per structure) will be charged for structures requiring a special submittal if cancelled any time during the submittal process.

Prices quoted are for truckload lots to accessible points by our trucks, at or near your jobsite. Contractor responsible to unload all product. CP&P

Attachment: JB 1 2 Price Justification (2455 : Approval of construction change order #3 from Green Wave Contracting Inc.)



We are committed to making Concrete Pipe & Precast the preferred supplier for our customers by delivering outstanding value, continuous innovation, and an exceptional customer experience by consistently fulfilling our promise:
"Not Just Concrete, Concrete Solutions."

*** PER ORIGINAL PLANS ***

DATE: 08/30/17

COUNTY: GEORGETOWN, South Carolina

BID Date: 8/30/2017

PROJECT: Storm Drain Improvements For City of Georgetown Ph. 1

PROJECT #:

BIDDER: GREEN WAVE CONTRACTING, INC

D.O.P: 11/7/2016

Quote: CQ-87968

We are pleased to quote the following prices for the above referenced project:

Structure #	Quantity	Description	Height	Size/Dia.	Price	Extended Price
JB1	1	Junction Box 72" x 132" ID with: 8" Walls, Steps, Preformed pipe openings as required & Lid with USFPP3300-36"x-48" Aluminum Pedestrian-Rated Hatch Cast in. TRAFFIC RATED HATCH **Bottom/Base Slab by others.**			\$8,335.00 + 455.00 <u>\$8,790.00</u>	\$8,335.00
JB2	1	Junction Box 72" x 132" ID with: 8" Walls, Steps, Preformed pipe openings as required & Lid with USFPP3300-36"x-48" Aluminum Pedestrian-Rated Hatch Cast in. TRAFFIC RATED HATCH **Bottom/Base Slab by others.**		12.00 x 6.00	\$8,335.00 + 455.00 <u>\$8,790.00</u>	\$8,335.00
All prices are subject to applicable taxes.				Structure Total:		\$16,670.00
AIS Requirement Compliance				Total Structures:		2

Documentation 7% of subtotal \$1,166.90

Pipe is quoted to DOT standards. Joint material for round and elliptical pipe is included in the per foot price, except where noted. Prices are for (ASTM C-76) Reinforced Concrete Pipe "non-tested for leak resistance." If any kind of pressure testing (in plant or in field) is required these prices are null and void. The quotation is for our standard 8'0" joint length and does not include any fittings, cut skews, or shorts. Please contact our sales team for additional cost of these items or tested pipe if required.

Storm Structure Notes: Storm Structures are quoted to DOT standards. All drop inlets include frames and grates or frames and covers as required, unless otherwise noted. Prices do not include flexible connectors for HDPE pipe. If flexible connectors are required, structures may need to be modified (both diameter and height).

Sanitary Notes: Sanitary Manholes are quoted to ASTM C-478 and local jurisdiction standards. Precast inverts are included in the prices of the Sanitary Manholes, unless otherwise noted. Manhole steps (if required), flexible boot connectors and joint sealants are included in the price of the structures. Frames and covers are not included in the structure prices unless specifically noted.

Stormwater Notes: Price is for concrete structure only. Prices exclude frames, grates, trash racks, hand rails, guide rails, orifice plates, diversion grates, hatches, coatings, ladders, fall protection system and other components involved with structures unless stated on this quote. It will be the contractor's responsibility to make the joints watertight. Structure design is subject to Engineer's approval.

A fee will be assessed for processing and handling (\$250 for hatches; \$150 for sleeves, clean outs, etc...) of customer supplied embeds. For post production casting of customer supplied Thimbles, etc..., there will be a \$1,000 per 'thimble' fee for planting casting.

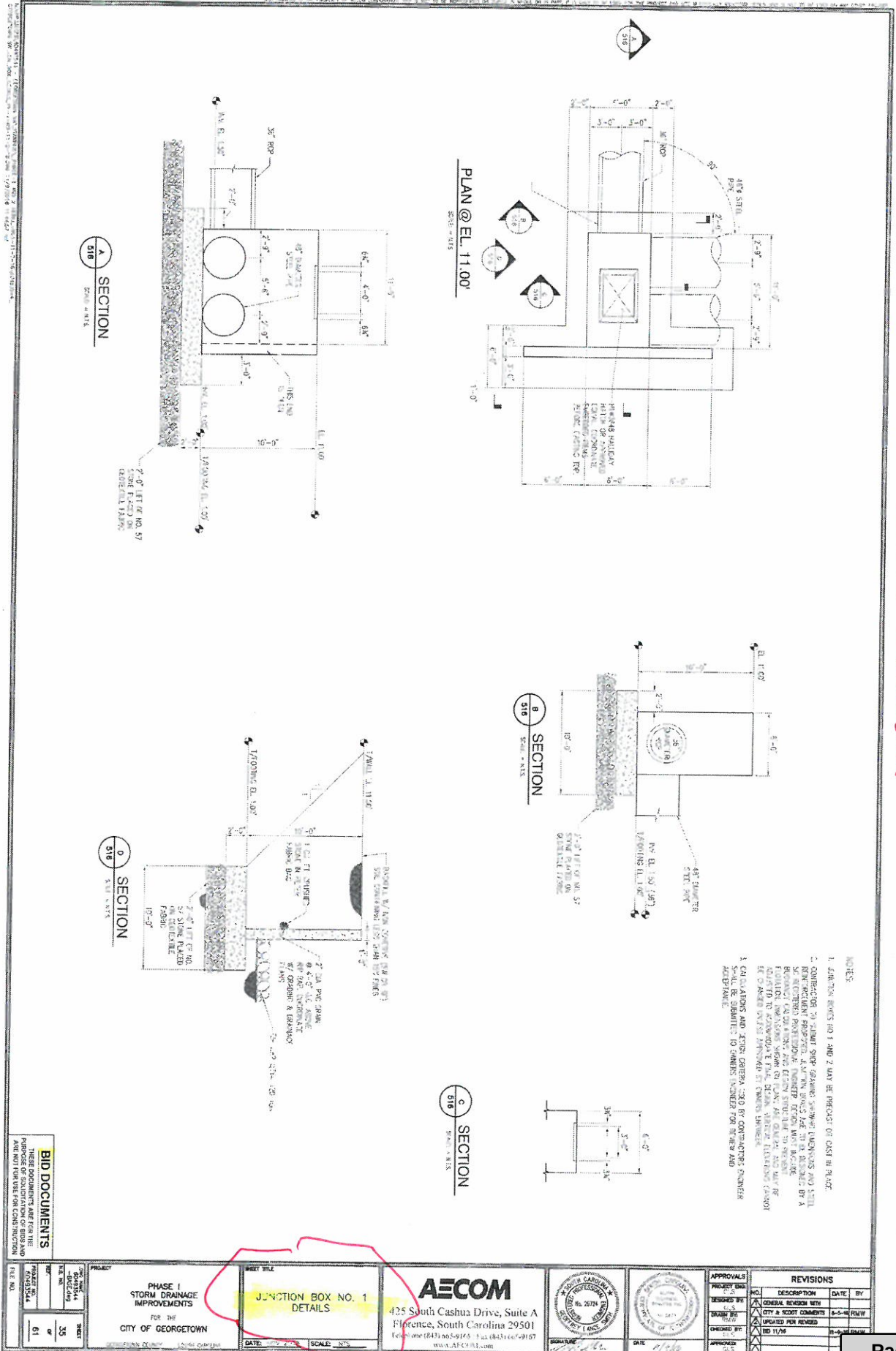
Min Hgt to Precast = too shallow to precast as shown on the plans. Contractor's responsibility to validate with the Engineer that the design can change to use the precast structure prior to production release.

Please notify CP&P immediately if any item must comply with any American Iron and Steel (AIS) requirements. CP&P must be notified prior to fabrication and, in accordance with the Act, fees may/will be charged for the additional requirements and necessary compliance documentation.

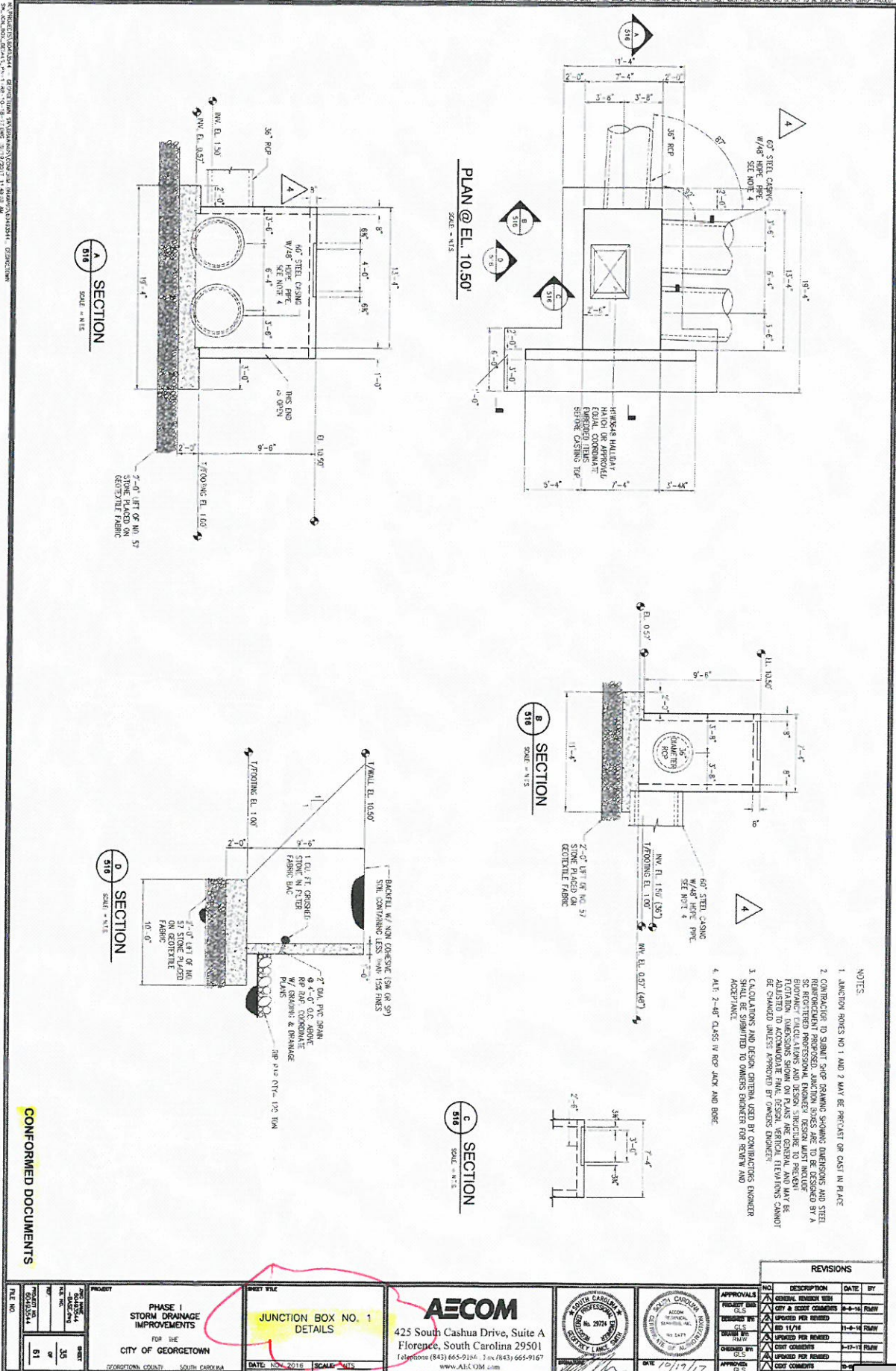
Production facilities are NPCA certified. CP&P is not PCI certified.

Attachment: JB 1 2 Price Justification (2455 : Approval of construction change order #3 from Green Wave Contracting Inc.)

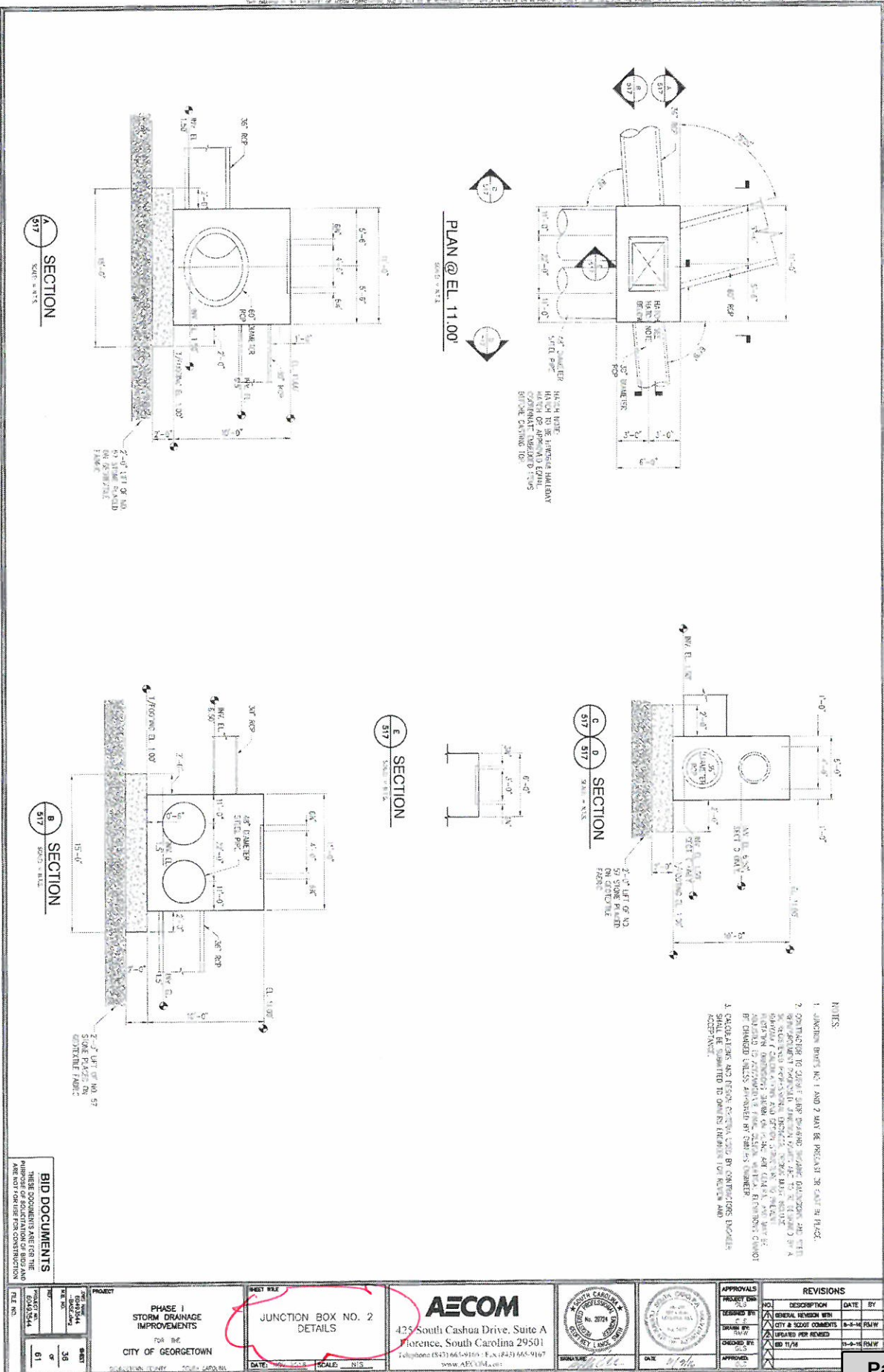
BID Drawings.



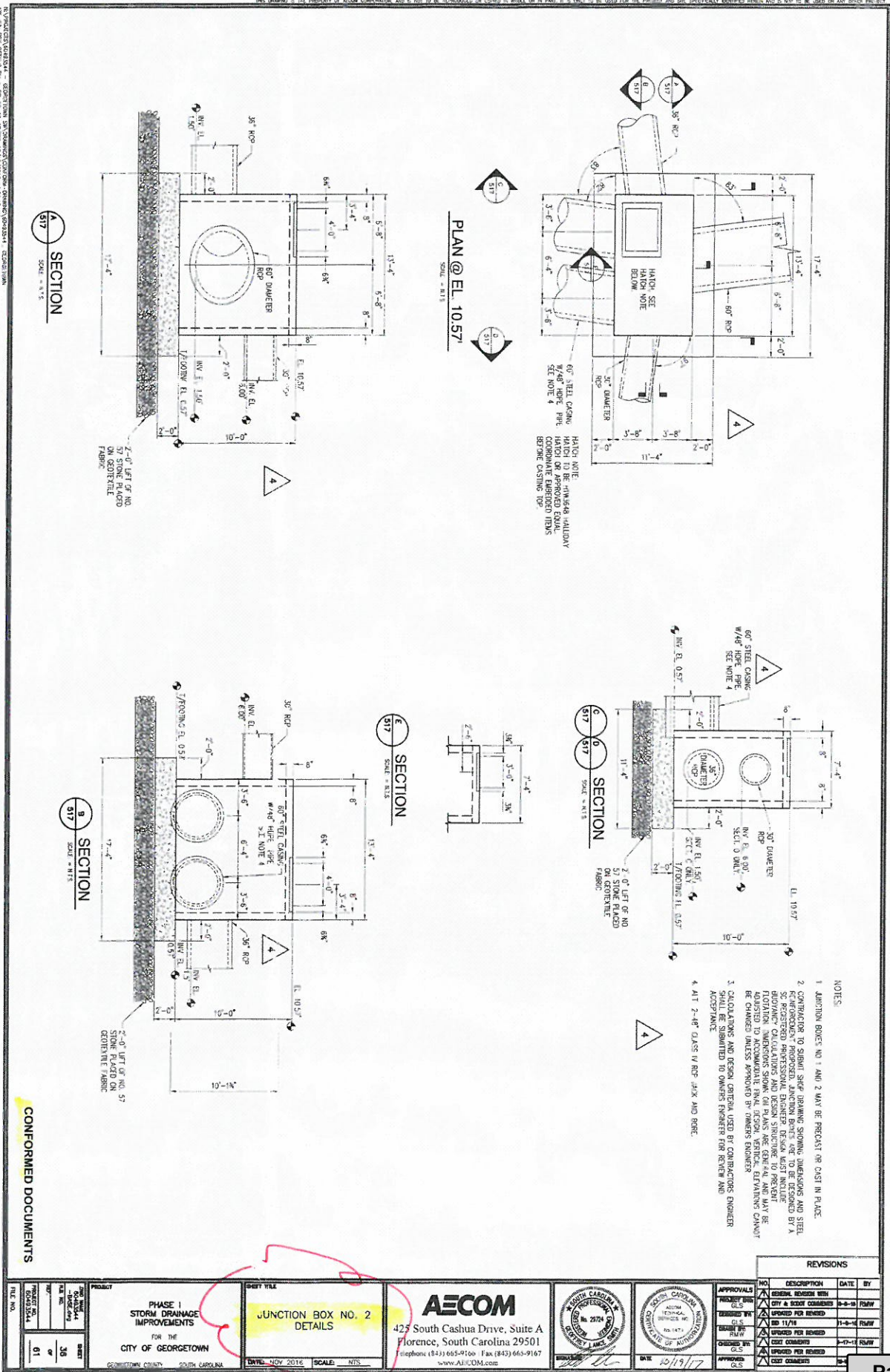
Revised Drawings.

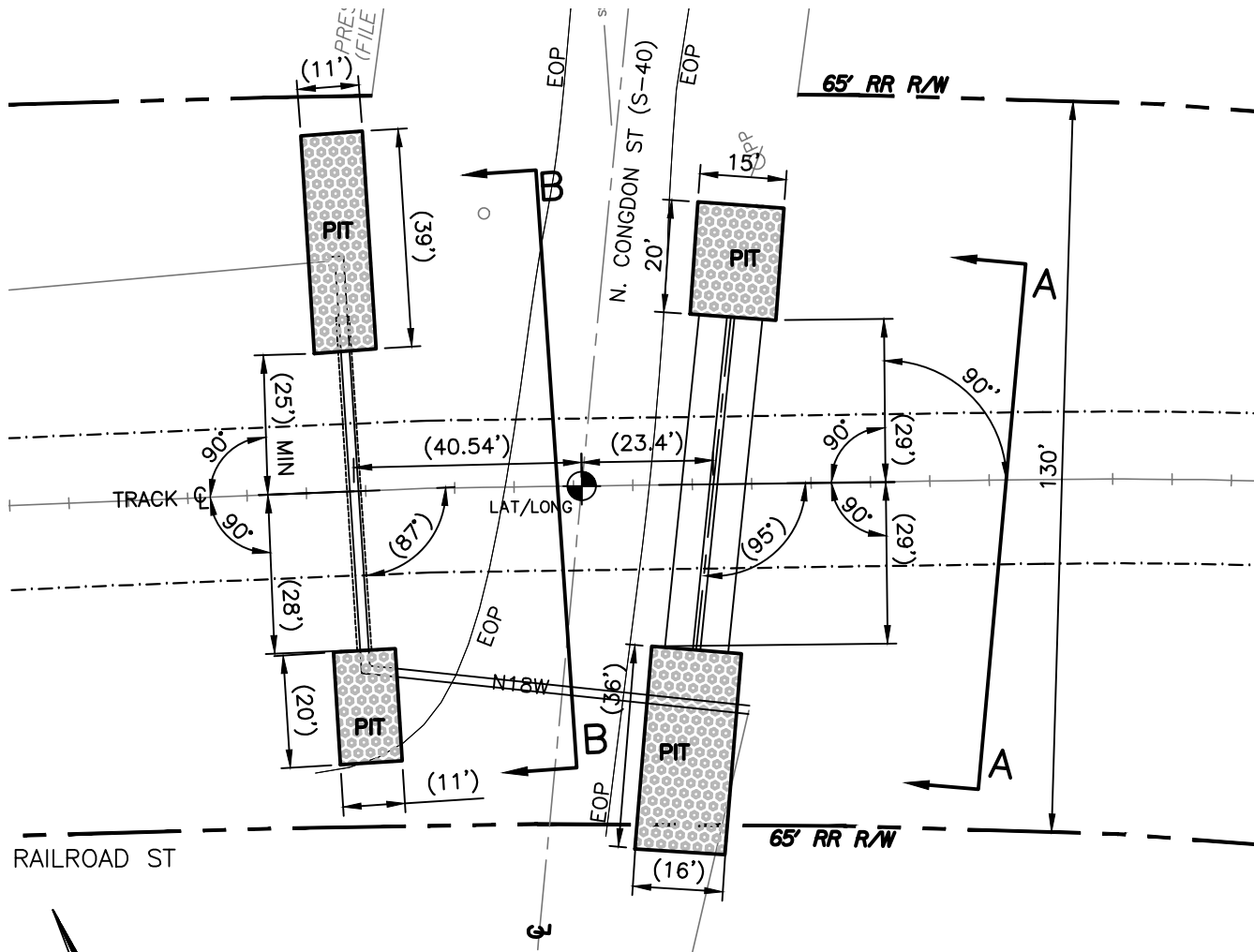


BID Drawings.



REVISED PLANS





PIPE PLAN VIEW

N.T.S.

(MILEPOST SHA-0.14)

GREEN WAVE CONTRACTING INC.
5888 HIGHMARKET ST
GEORGETOWN, SC. 29440
PHONE: (843)240-9738

Location: GEORGETOWN SC
Latitude: N 33°22'29"
Longitude: W 79°17'36"
Drawing No.: 1 Sheet: 1 of 3
Drawing Date: / / Revised: 11 / 15 / 2017
Drawing Scale: V Inches = Feet
Drawing Scale: H Inches = Feet

DRAWING REVISION 1 DATE 1-26-18



120 North Fraser Street • Georgetown, SC 29440 • (843) 545-4000

ACTION ITEM

DOC ID: 2456

Council Meeting Date:	2 February 2018
Department:	Engineering
Issue Under Consideration:	Motion to approve purchase and payment to CP&G General Contractors in the amount of \$18,513.00 representing Change Order Number 1 on East Bay Park Bathroom Project.
Amount Requested:	\$18,513.00
Is Item in Current Budget?	Yes.
If no, please explain:	
Financial Impact:	
Points to Consider:	This change order includes additional perforated Hardi board soffit around the perimeter of building, ceiling enclosure with painted Hardi board panles, two (2) new electric heaters, two (2) new electric hand dryers and all the associated electrical work. This work was not part of the original bid scope.
Options:	
Staff Recommendation:	Approve change order.

Reviews:

Orlando Arteaga Completed 01/31/2018 2:20 PM
 Paul Gardner Completed 01/31/2018 2:58 PM
 Debra Bivens Completed 01/31/2018 4:04 PM
 Ann U. Mercer Completed 01/31/2018 4:34 PM
 Georgetown City Council Pending 02/02/2018 3:00 PM

Attachments:

1. 1 Change order with submittal (PDF)
2. 2 Architect's CO review (PDF)
3. 3 EBP Restroom Photos 1.31.2018 (PDF)

Updated: 1/31/2018 2:52 PM by Ann U. Mercer (Page 1)

CP&G
General Contractors
829 Suite "B" Front Street
Georgetown, SC 29440 (843) 545-1589

January 22, 2018

To:
 Mr. Orlando Arteaga, PE|City Engineer
 City of Georgetown Engineering Dept.
 2377 Maybank Drive
 PO Box 939
 Georgetown, SC 29442

Subject: Additional Work for Bathrooms at East Bay Park

Dear Sir,

This is in reference to the site visit on 1-18-2018, and the discussions we had at the site.

We hereby submit a proposal with the pricing on the additional work recommended, agreed by architect.

We hope you will find the pricing very reasonable.

1. Furnish and install Hardi panels, trim ceiling, including miscellaneous framing, painting with two coats of recommended paint. Installation of perforated soffit around the building as per estimate submitted. \$11,350.00
2. Installation of recommended Radiant Heaters, including wiring, materials and labor
 Install Hand dryers (quantity 2) with all labor, material and relocate existing wire to above rafters to accommodate ceiling, Hardi boards and trims \$5480.00

Add 10% profit \$1683.00

TOTAL \$18,513.00

I spoke this morning with the manufacture's office regarding lead time for the requested heaters. Once ordered, their lend time is (3) three weeks to project site.

Sincerely,



Prabhakar Moro

Attachment: Change order with submittal (2456 : Approval of construction change order from CP&G)

Bill Moore Construction LLC

Bill Moore - Owner

ESTIMATE

P.O. Box 446

Hemingway, SC 29554

Phone 843-389-8337

oceconstruction@yahoo.com

DATE: 1/22/18

CP&G

For: East Bay Park

Description	Amount
Furnish and Install Hardi Panels, Trim in ceiling, Includes Misc. framing	\$5,500.00
Paint work for change order work	\$3,850.00
Furnish and install Hardi panels for soffit with perforation All labor and material	\$2,000.00
Total	\$11,350.00

Make all checks payable to BILL MOORE CONSTRUCTION, LLC

THANK YOU FOR YOUR BUSINESS!

Attachment: Change order with submittal (2456 : Approval of construction change order from CP&G)

Wilson Electrical Services, LLC

1231 Aimwell Road Andrews, SC 25910 (843) 325-4204

January 23, 2018

Submitted to:

Moro Prabhakar
829 Suite B Front St.
Georgetown, SC 29440

ESTIMATE

RE: Eastbay Park

Description	Material	Quantity	Line Total
Markel Radiant Heaters	\$1040.00	2	\$2080.00
Cable, Wiring, Accessories to Panel Boards	\$500.00	2	\$1000.00
Hand Dryers as specified	\$600.00	2	\$1200.00
Labor and Materials For Installation	\$300.00	2	\$600.00
Relocate electric cable above rafters to accommodate ceiling	\$600.00	LS	\$600.00
			Total \$5480.00

Make all checks payable to Wilson Electrical Services, LLC

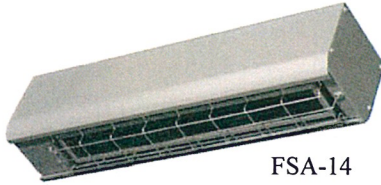
THANK YOU FOR YOUR BUSINESS!

Attachment: Change order with submittal (2456 : Approval of construction change order from CP&G)

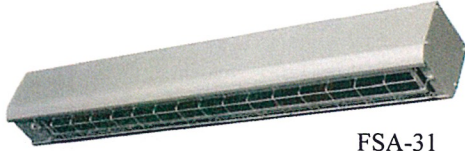
FSA Series Heavy Duty Flat Panel Emitter Electric Overhead Infrared Heater

64

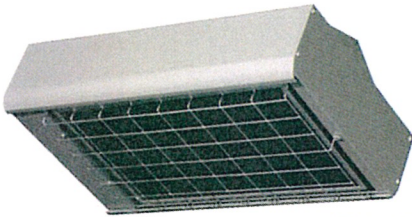
Heavy Duty Overhead Infrared Heaters for Indoor Spot Heating, Zone, or Total Area Heating Applications



FSA-14



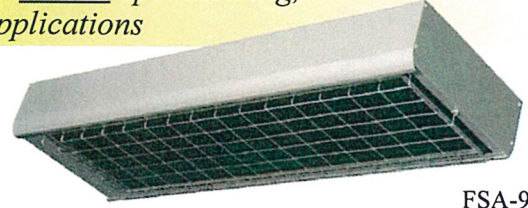
FSA-31



FSA-43



Intertek



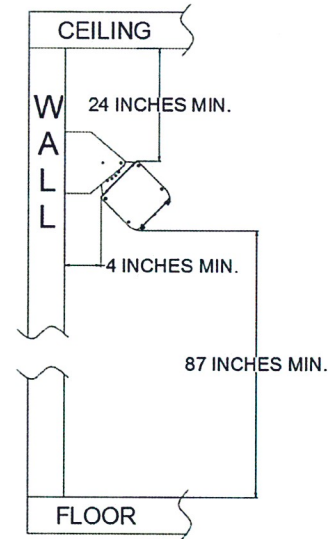
FSA-95

- ETL C/US Listed for suspended high-bay indoor or semi-protected outdoor applications.
- Designed for spot / zone or total area heating applications.
- Heating elements included (Heavy Duty Single Flat Panel Emitter).
- Medium wave emitter operates at 78.5% radiant efficiency - with a 25,000 hour life expectancy.
- Extruded aluminum housing with a nickel-gray finish, providing a 60° symmetrical heat pattern.
- Electrical enclosure included for direct wire installation.
- Single or three-phase wiring configurations.
- "L" brackets included on the top of the heating housing for chain suspension, wall mounting, or ceiling mounting options.
- Units can be surface mounted, semi-recessed, or fully-recessed.
- Zinc plated heavy-gauge safety grills included for all models.
- Optional wall mounting bracket sold separately.
- Shipped fully assembled and made in U.S.A.

Standard Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	VOLTS	PHASE	BTUs / Hr.	AMPS		WT. (LBS)	LIST
						1-PH	3-PH		
04889002	FSA-1412-1	1450	120	1	4947	12.1		13	1040
04889102	FSA-1420-1		208			6.97			
04889202	FSA-1424-1		240			6.04			
04889302	FSA-1427-1		277			5.23			
04889402	FSA-1448-1		480			3.02			
04889502	FSA-1457-1		600			2.52			
04889602	FSA-3120-1	3150	208	1	10,748	15.14		22	1185
04889702	FSA-3124-1		240			13.13			
04889802	FSA-3127-1		277			11.37			
04889902	FSA-3148-1		480			6.56			
04890002	FSA-3157-1		600			5.48			
04890102	FSA-4320-3	4300	208	1 or 3	14,672	20.67	11.94	24	1575
04890202	FSA-4324-3		240	1 or 3		17.91	10.36		
04890302	FSA-4327-1		277	1		15.52			
04890402	FSA-4348-3		480	1 or 3		8.96	5.18		
04890502	FSA-4357-3		600	1 or 3		7.48	4.32		
04890602	FSA-9520-3	9500	208	1 or 3	32,414	45.67	26.39	39	2325
04890702	FSA-9524-3		240	1 or 3		39.6	22.89		
04890802	FSA-9527-1		277	1		34.3			
04890902	FSA-9548-3		480	1 or 3		19.8	11.44		
04891002	FSA-9557-3		600	1 or 3		16.5	9.54		

Optional Wall Mounting Brackets



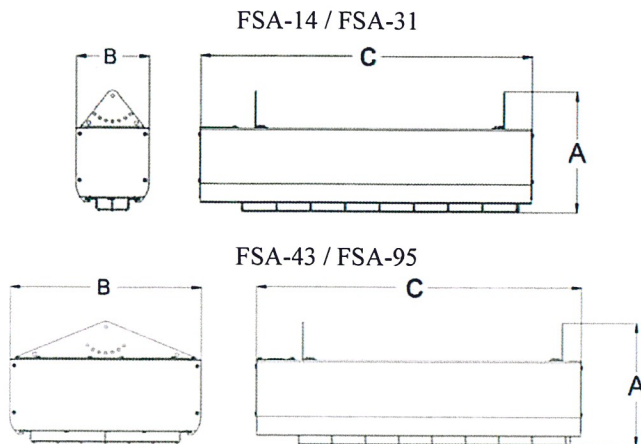
OPTIONAL WALL MOUNTING BRACKETS

MFG CATALOG NUMBER	MFG MODEL NUMBER	LIST
04892002	FSA-14-31WMB	25
04892102	FSA-43-95WMB	45

Attachment: Change order with submittal (2456 : Approval of construction change order from CP&G)

FSA Series Heavy Duty Flat Panel Emitter Electric Overhead Infrared Heater

FSA Series Dimensions



MFG MODEL NUMBER	DIMENSIONS (in.)		
	"A" DEPTH	"B" WIDTH	"C" LENGTH
FSA-14	8 ½	5 ¾	26 ⅙
FSA-31	8 ½	5 ¾	47 ⅙
FSA-43	8 ¾	14 ¾	25 ⅙
FSA-95	8 ¾	14 ¾	47 ⅙

Mounting Clearances & Recommended Mounting Height

Mounting Clearances		KW	Recommended Mounting Height
All FSA Models	24" from ceiling 36" from vertical surface & from another heater (4" when using optional mounting bracket) 72" from face of heater to combustible surface	1.4	8' - 10'
		3.1	8' - 12'
		4.3	10' - 14'
		9.5	12' - 16'

Sizing Chart

MOUNTING HEIGHT	MFG MODEL NUMBER	LENGTH	WIDTH	COVERAGE (SQ. FT.)	WATTS (SQ. FT.)
8'	FSA-14	8	8	64	22.7
	FSA-31	9	8	72	43.8
10'	FSA-14	11	10	110	13.2
	FSA-31	11	10	110	28.6
	FSA-43	12	10	120	35.8
12'	FSA-31	12	11.5	138	22.8
	FSA-43	14	12	168	25.6
	FSA-95	15	13	195	48.7
14'	FSA-43	16	14	224	19.2
	FSA-95	18	16	288	33.0
16'	FSA-43	18	16	288	14.9
	FSA-95	21	18	378	25.1

Product Specifications

Housing & Construction:

14 Gauge extruded 6063 aluminum housing with protective grill. Powder coat silver finish for excellent durability and attractive appearance in commercial applications. ETL C/US listed for indoor, dry environments. Made in USA.

Elements:

Heavy duty flat panel emitter. Available wattages in 1450, 3150, 4300 and 9500 Watts per element. Available in standard voltages from 120 to 600 Volts.

Controls:

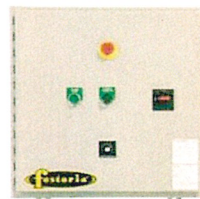
Flat panel emitter heaters are not manufactured with any control device on the unit. All controls and accessories should be specified as remote mounted. Please consult the technical sales department of factory for help in determining applicable controls. Please follow installation instructions that accompany each heater.

Accessories:

Optional power controls pages 78-81

Optional - ICP Control Panels

Features



- NEMA 4 outdoor rated control box
- Door interlock disconnect switch
- Custom made to customers specifications
- SCR and proportional controls optional
- Circuit breakers sized for heater load per stage
- Please see ICP page to select panel to control one or multiple units, if required.

XLERATOR® HAND DRYER

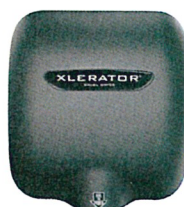
MODELS: XL - BW W GR C SB SI SP OPTIONS: -1.1N (Noise Reduction Nozzle) -H (HEPA Filter) -VOLTAGE (See Chart)



XL-BW
White Thermoset Resin (BMC)



XL-W
White Epoxy
Painted



XL-GR
Graphite Textured
Painted



XL-SP**
Custom Special
Paint



XL-SI***
Custom Special
Image



XL-C
Chrome
Plated



XL-SB
Brushed Stainless
Steel



UL Environment published the first global Product Category Rules (PCR) for Hand Dryers and Excel Dryer is proud to have been selected to chair the project. The PCR created evaluation methods through industry consensus that compare products' environmental impact and performance. Third party testing results then enable specifiers and buyers to make a true apples-to-apples comparison of products and more informed decisions.

* Dry time and energy use testing performed by SGS International on standard XLERATOR Hand Dryer with 0.8" nozzle to 0.25g or less of residual moisture, pursuant to the UL Environment Global Product Category Rules (PCR) for Hand Dryers.
** Special Paint powder-coated covers are available in many colors and textures.
*** Exclusive digital image technology allows for the addition of company, school or team logos with any color, design or a 'green message'.

FOR ARCHITECT/ENGINEER APPROVAL

Job Name _____ Date _____

Model Specified _____ Quantity _____

Variations Specified _____

Customer/Wholesaler _____

Contractor _____

Architect _____

PERFORMANCE



DRY TIME: 8 SECONDS*

ENERGY PER USE: 3.7 Wh*

Wattage: 1490 Watts (Heat On), 425 Watts (Heat Off)

Certifications:



CONSTRUCTION

- A. All covers will be fastened to a base plate by two chrome plated tamper-proof bolts. Cover shall be one of the following:
Die-cast zinc alloy - One-piece, heavy-duty, rib-reinforced, lightweight, unbreakable, rustproof and all exposed surfaces shall be bright chrome plated or finished with chip-proof, electrostatically applied epoxy paint.
Bulk Molding Compound (BMC) - White reinforced thermoset resin.
Stainless Steel - with a brushed finish.
Special Image - Digital image applied to die-cast or stainless steel covers using patented Kolorfusion Sublimation Decoration process.
- B. Base plate shall be equipped with (3) 7/8" (22 mm) diameter holes, the bottom one is suitable for use with surface conduit.
- C. All internal parts shall be coated according to Underwriters' Laboratories, Inc. requirements.
- D. Entire mechanism shall be internally grounded.
- E. Options
HEPA Filtration System: Filters 99.97% of bacteria at 0.3 microns from the air stream.
1.1 Noise Reduction Nozzle: Lowers decibel level 9 dB by reducing air deflection noise but increases dry time by approximately 3 seconds.
- F. Accessories (optional)
Microban® Antimicrobial Wall Guards: 89W (White), 89B (Black), 89S (Stainless)
XChanger Paper Towel Retrofit Kit: 40550, 40551 (ADA Height)
ADA Recess Kit: 40502

MECHANISM

- A. Motor shall be a thermally protected, series commutated, through-flow discharge vacuum motor/blower (5/8 hp / 20,000 rpm) which provides air velocity of up to 19,000 LFM (linear feet per minute) at the air outlet and 16,000 LFM at the hands (4 inches [102 mm] below air outlet). Includes a washable metal mesh filter for more reliable performance.
- B. Heating element (970 w) is constructed of Nichrome wire and mounted inside the blower housing, thereby being vandal resistant. It shall be protected by an automatic resetting thermostat, which shall open whenever air flow is cut off and shall close when flow of air is resumed. It shall produce an air temperature of up to 135°F (57°C) at a 72°F (22°C) ambient room temperature at the hands (4 inches [102 mm] below air outlet).
- C. Control assembly is activated by an infrared optical sensor located next to the air outlet. The dryer shall operate as long as hands are under the air outlet. Control includes a speed and sound control mechanism, adjustable heat control with High, Medium, Low and Off settings and a filter sensor which is activated should the filter become clogged. There is a 35-second lockout feature if hands are not removed. Sensor equipped with externally visible Red LED light that flashes error codes to assist in troubleshooting.

LIMITED WARRANTY

The dryer shall be guaranteed to be free from defects for a period of five (5) years. Warranty shall include labor performed at factory as well as the repair or exchange of defective parts, at manufacturer's option.

QUANTITY RECOMMENDATIONS

One dryer for every two washbasins is sufficient for most applications. If restroom traffic is unusually heavy, we suggest one dryer per washbasin in small installations and two dryers for every three washbasins in larger installations. When a 54" washbasin is used, we suggest four to five dryers.

EXCEL DRYER, Inc.
East Longmeadow, MA

Phone 1.800.255.9235
Fax 1.413.525.2853

sales@exceldryer.com
www.exceldryer.com

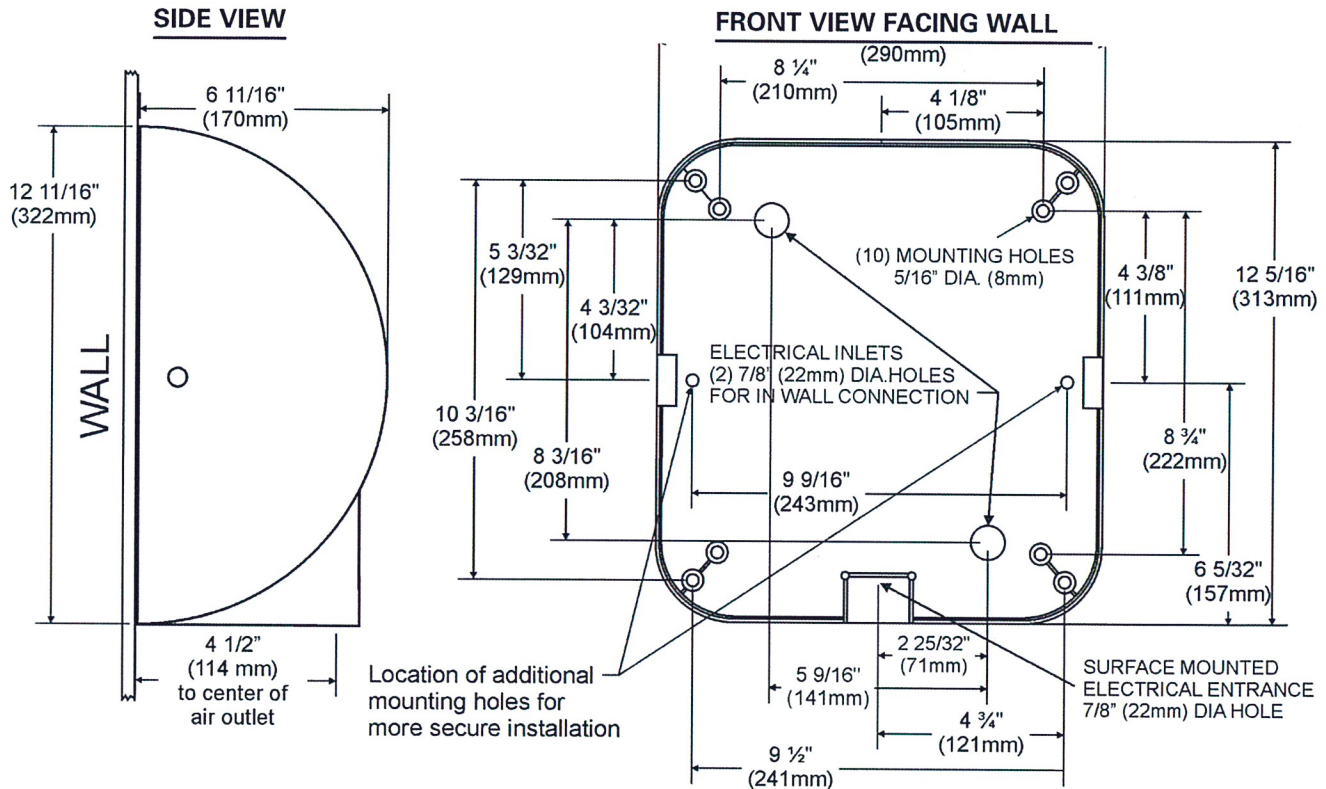
FEB
2017

Packet Pg. 20

Attachment: Change order with submittal (2456 : Approval of construction change order from CP&G)

XLERATOR® HAND DRYER

MODELS: **XL - BW W GR C SB SI SP** OPTIONS: **-1.1N** (Noise Reduction Nozzle) **-H** (HEPA Filter) **-VOLTAGE** (See Chart)



DIMENSIONS

Width 11 3/4" (298 mm) Height 12 11/16" (322 mm) Depth 6 11/16" (170 mm)

WEIGHT

XL-BW: 15 lbs. (6.8 kgs.) XL-SB: 16 lbs. (7.26 kgs.) XL-W, GR, C, SI, SP: 17 lbs. (7.71 kgs.)

ELECTRICAL

VOLTS	AMPS	WATTS	NO HEAT AMPS	NO HEAT WATTS	HERTZ	
110-120V	11.3-12.2A	1240-1450W	4.3-4.5A	460-530W	50/60 Hz	cULus
208-277V	5.6-6.2A	1160-1490W	2.0-2.2A	425-500W	50/60 Hz	cULus
230V	6.1A	1410W	2.2A	500W	50 Hz	CE

SUGGESTED MOUNTING HEIGHTS from floor to bottom of dryer:

Men	45" (114 cm)
Women	43" (109 cm)
Teenagers	41" (104 cm)
Small Children	35" (89 cm)
Accessible	37" (94 cm)



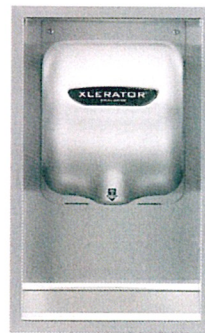
ACTIVATION

Automatic Sensor Operated

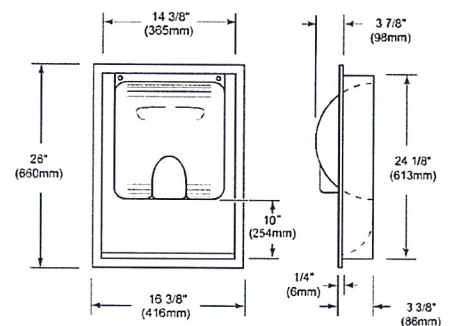
MOUNTING

Surface Mounted

OPTIONAL ADA-COMPLIANT RECESS KIT



Part # 40502



DIMENSIONS

Width 16 3/8" (416 mm) Height 26" (660 mm) Depth 3 3/8" (86 mm)

WEIGHT

11 lbs. (4.99 kgs.)

Bottom of recessed wall box should be 10" (254 mm) below suggested mounting height for dryer.

Attachment: Change order with submittal (2456 : Approval of construction change order from CP&G)

Arteaga, Orlando

From: Michael Walker <mwalker@tychwalker.com>
Sent: Wednesday, January 24, 2018 4:50 PM
To: Arteaga, Orlando
Subject: Change Order 1-22-18

Orlando,

I have reviewed the information provided and it appears to be in line with the costs of the project.
Let us know if you approve and we will issue a change order.

Thanks

Michael Walker, AIA, LEED AP
Tych & Walker Architects, LLP

new mailing address
PO Box 509
Pawleys Island, SC 29585

new office address
38 Blackgum Rd, Unit B
Pawleys Island, SC 29585

843-651-7151

mwalker@tychwalker.com

[Caution : External Sender]

Attachment: Architect's CO review (2456 : Approval of construction change order from CP&G)



Photo No. 1
Description: Front Elevation.



Photo No. 2
Description: Right Elevation. Arrow points to roof soffit which lacks perforated panel at the bottom.

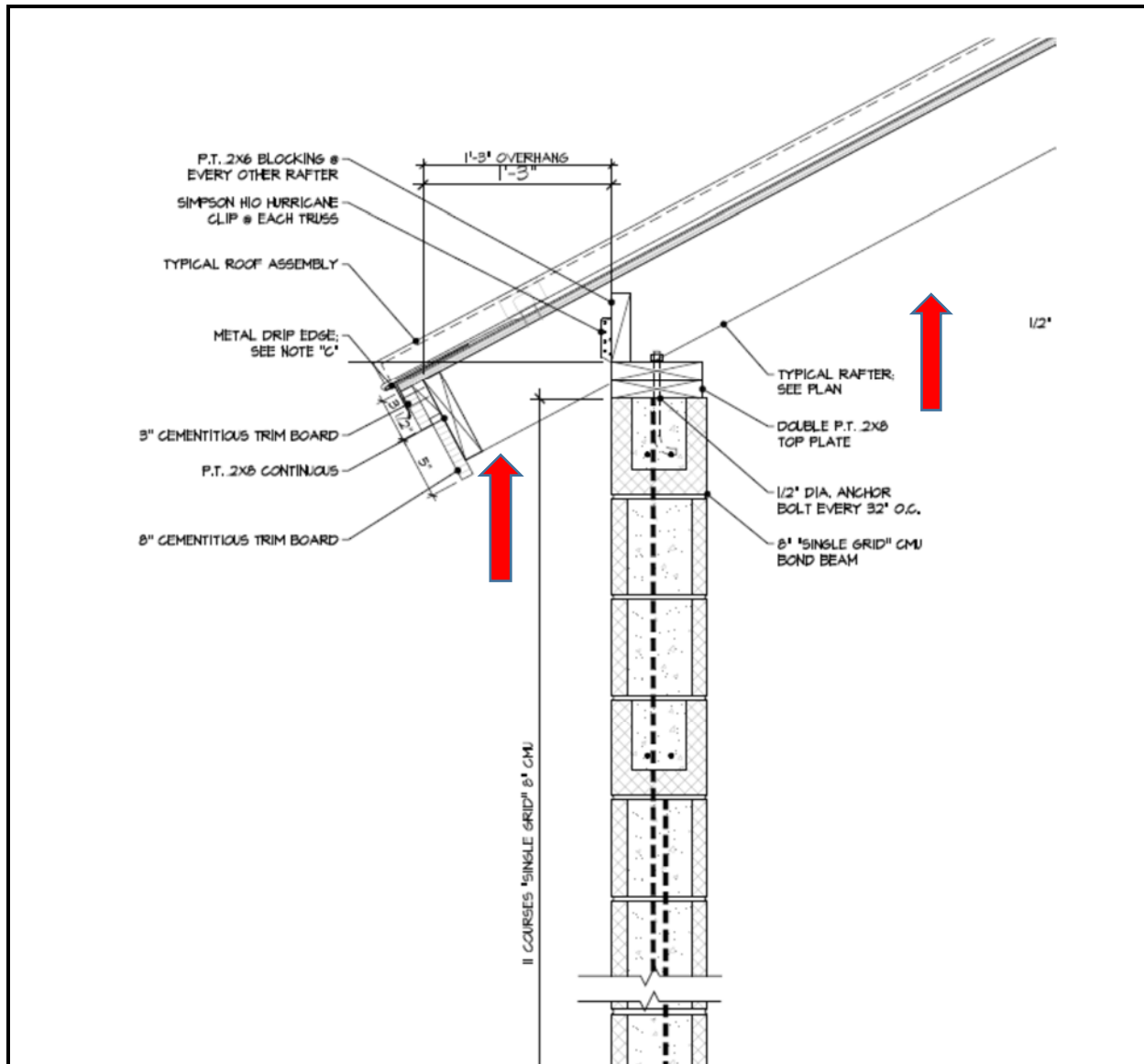
**Photo No. 3****Description: Rear Elevation.****Photo No. 4****Description: Left Elevation.**

**Photo No. 5**

Description: View of men's room interior ceiling. Arrow indicates exposed rough lumber

**Photo No. 6**

Description: View of women's room interior ceiling. Arrows indicate exposed rough lumber and openings in the bottom of roof rafters (exterior soffit)

**Photo No. 7**

Description: View of architectural drawing: Wall section thru bathroom. Arrows point to lack of soffit material in the exterior and ceiling in the interior.