



April 7, 2025

Kristina Jones
Broaddus & Associates
2330 Bloomdale Rd
McKinney, TX 75071

Subject: Collin County Healthcare Facility, Parking Garage, and Medical Examiners
Revised Request for Change (PCO) No. 030; RFI #111 Cast Stone in Lieu of EIFS at HCB Entrances

Dear Kristina:

Please find the attached Revised PCO No. 030. This proposal is submitted for an Add of Forty-Five Thousand and Eight Hundred and Forty-Five Dollars (\$45,845), reflective of the following items:

- **Per RFI #111 response.**
- **Healthcare Facility**
 - Add for cast stone at HCB South, North, and West entrances.
 - Credit for labor and materials for EIFs.
- *This PCO will be an add to our contract in the amount of \$45,845.*

We have not proceeded with this change. Please sign the attached request for change recap indicating approval of this change.

Sincerely,

Jim Terhune



Jim Terhune
Sr. Project Manager

CC: Bryan Smith , PGAL

☐ Collin County

☐ PGAL - Dallas (Addison)

☐ Project Manager

☐ Accounting

Project:

224057- Collin County Medical Campus
2300 Bloomdale Rd
McKinney, TX 75071

Owner :

Collin County
2300 Bloomdale Rd; Suite 3160
McKinney, TX 75071

From:

The Christman Company
130 E. John W. Carpenter Fwy. Suite 200
Irving, TX 75062

Issue No. 030 - RFI #111 Cast Stone in Lieu of EIFS at HCB Entrances

Amount

Item: I Healthcare Building

Phase	Description	Abbreviation	Amount
11 -	Masonry & Cast Stone	SUBS	45,123.00
21B-	EIFS	SUBS	-2,182.00
41 -4110	Payment and Performance Bonds	OTHER	365.00
41 -4120	Builder's Risk Insurance	OTHER	34.00
60 -	Overhead & Profit	OTHER	2,183.00
99 -	General Liability Insurance	OTHER	322.00
Subtotal Item I			45,845.00

0.00

Request for Change Total:

\$45,845.00

Qualifications:

1. This Issue is ☐ Original ☒ Revised ☐ Budget Only ☐ Firm Quotation.
2. Contract time will be ☐ Increased by ☒ Decreased by () work days; ☒ Other: None
3. The Christman Company ☒ has ☒ has not proceeded with the work, and this Issue must be accepted within () work days.
4. Funded by ☒ Contract change ☐ Allowance ☐ Contingency ☐ Other: _____

Owner and/or Architect Action:

- ☐ Approved ☐ Proceed as described above (cost and schedule changes to be finalized under a revised Issue)
- ☐ Rejected ☐ Other: _____

Authorization:

The Owner and/or Architect hereby direct The Christman Company to proceed with the performance of the work as described above and/or in any additional documents referenced herein. It is understood that the amount of this Request for Change, if noted as "Budget Only" under Qualification 1., will be revised as necessary upon determination of final costs and included in the next Owner Change Order accordingly. If noted as "Firm Quotation" under Qualification 1., the amount of this Request will be included in the next Owner Change Order. In addition, all costs included herein may be included in the next payment application as if they had been included in an Owner Change Order or Construction Change Directive.

Architects notes, comments and references for cast stone substitution specification included in this PCO- TK

Authorized By Owner:

Collin County
2300 Bloomdale Rd; Suite 3160
McKinney, TX 75071

Accepted By Architect

PGAL - Dallas (Addison)
14135 Midway Road, Suite G-200
Addison TX 75001

Submitted By Contractor:

The Christman Company
130 E. John W. Carpenter Fwy. Suite 200
Irving, TX 75062

By: _____

By: Tim Konganda

By: _____

Date: _____

Date: _____

Date: _____



29737_Collin County Medical
Campus - Pricing Exercise

**Option 1: Change EIFS at South, West
& North Elevations to Cast Stone**

Jollay Masonry, Inc.
8311 Eastpoint Dr. Suite #800
Dallas, TX 75227
Telephone: 214.642.2658
Fax: 404.297.8326

Project: | 29737_Collin County Healthcare

Location: | 2330 Bloomdale Rd.
McKinney, TX 75071

To: | The Christman Company
130 E John Carpenter Fwy Suite 200
Irving, TX 75062

Response
Required
By: | At your earliest convenience.

Refer spec. 07 62 00 - stainless
steel flashing at cast stone
accents

- C. Stainless Steel Sheet: ASTM A240/A240M, Type 304, dead soft, fully annealed; with smooth, flat surface.
1. Finish: ASTM A480/A480M, No. 2D (dull, cold rolled).
 - a. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
 - b. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1) Run grain of directional finishes with long dimension of each piece.
 - 2) When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

Documentation included within this request:

Cost Impact: \$45,122.49

Pricing exercise includes changing EIFS to Cast Stone at the storefront locations on the South, West & North Elevations at the Healthcare Facility and its impact to our scope of work per our contract documents.

In regards to our review of the above change management item, we have come up with a net scope impact of **\$45,122.49**. If areas are wrongly interpreted, please notify Jollay Masonry so we can work as a team to reconcile scope in a manner fair to all. Please note that no landscape scope has been included.

Additional Clarifications:

1. Price excludes furnishing & installing radius lintel.
 2. New design to be coordinated with design team/GC.
- GC Note: No additional costs associated with exclusions.**

If you need further clarification in regards to the items we have addressed, do not hesitate to contact me directly. We appreciate the opportunity and thank you for the business.

Regards,

Joseph Juneau

Joseph Juneau
Project Manager
Jollay Masonry, Inc.

January 24th, 2025

Shop drawings to include minimum requirements for modified design to anchor cast stone on arched steel lintel with securely anchored cast stone accent per cast stone manufacturer's requirements as specified by the Cast Stone Institute design recommendations, SMACNA and Masonry Institute recommendations for a water-tight installation, including separation of materials to prevent stains from efflorescence. Include structural engineering calculations for steel lintel and cast stone accent, with structural support to wall assembly and structure. See attached details and notes.

COR#02_Collin_County_EIFS to Cast Stone_Rev2_20250328

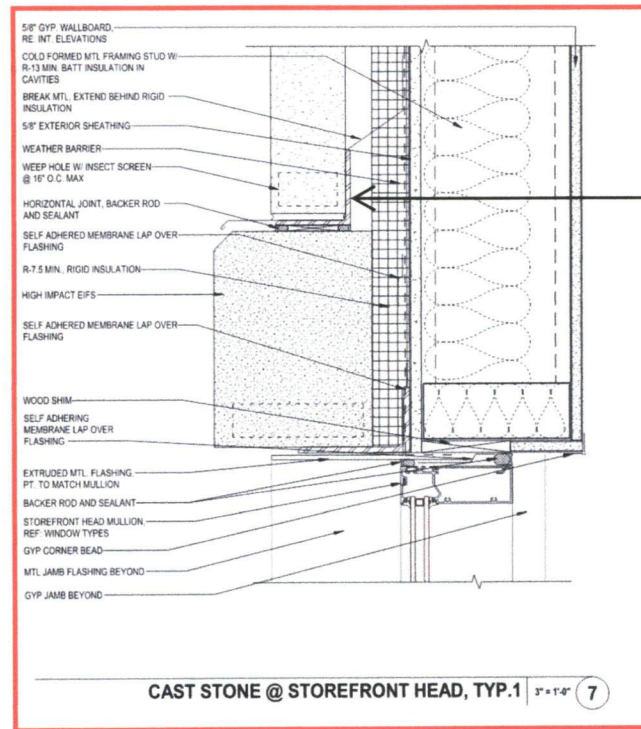


29737_Collin County Medical Campus_COR#2

General Cost										Subtotals
#	Description	Sheet	LF	HT	SF/Units	Type	Add/Deduct	UNIT COST	COST	Amounts
1	Added Cast Stone in lieu of EIFS on the North, South & West Elevation at the Healthcare Facility (unit size - 1'Tall x 5" thick x 3' long)									
1a	Materials	See attached.	210	1		Cast Stone	ADD	LS	\$ 10,039.20	\$ 10,039.20
1b	Labor	See attached.	210	1		Cast Stone	ADD	LS	\$ 20,285.28	\$ 20,285.28
1c	Equipment	See attached.	210	1		Cast Stone	ADD	LS	\$ 1,610.00	\$ 1,610.00
1d	Accessories	See attached.	210	1		Cast Stone	ADD	LS	\$ 4,302.47	\$ 4,302.47
1e	Engineering	See attached.	210	1		Cast Stone	ADD	LS	\$ 3,000.00	\$ 3,000.00
										\$ 39,236.95
Overhead & Profit 15%										\$ 5,885.54
Complete Change Order Cost										\$ 45,122.49

Design change if cast stone is selected to be installed in lieu of EIFS at South, North & West elevations at the storefront.

Current Detail



This lintel & break metal flashing would be removed. The wall cavity accessories would be shifted down to sit on the lintel. See image below.

Proposed change order to include cost credits for labor, materials and equipment, including steel lintel and associated flashing.

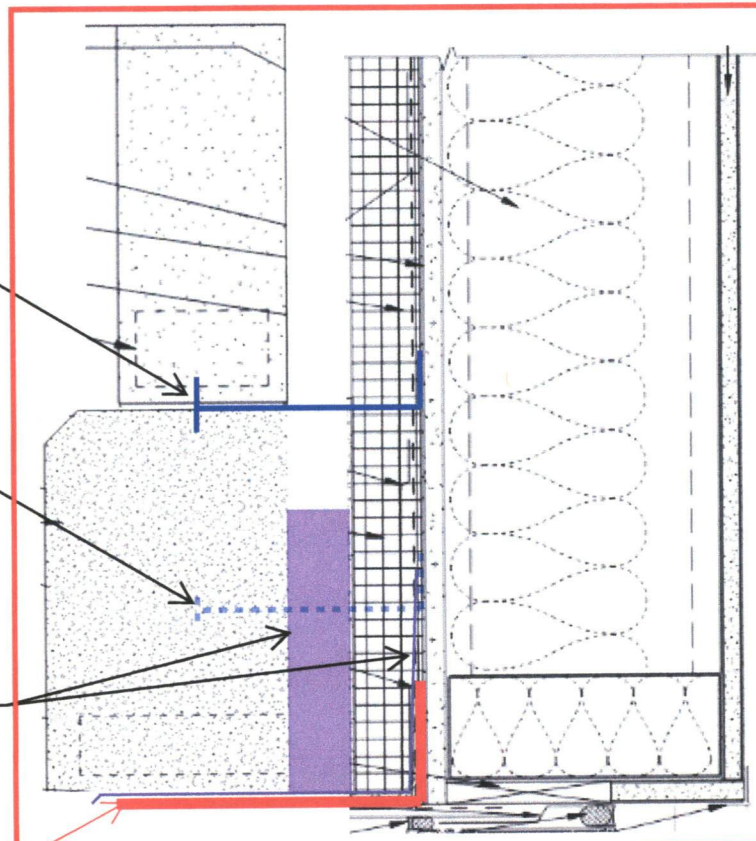
Proposed Detail

Bed joint anchors

Head joint anchors

Mortar net, flashing, termination bar, drip edge

Refer to Dtl. 12/ HC A0.35 for typ. flashing details. Use Stainless steel flashing at cast stone accent.

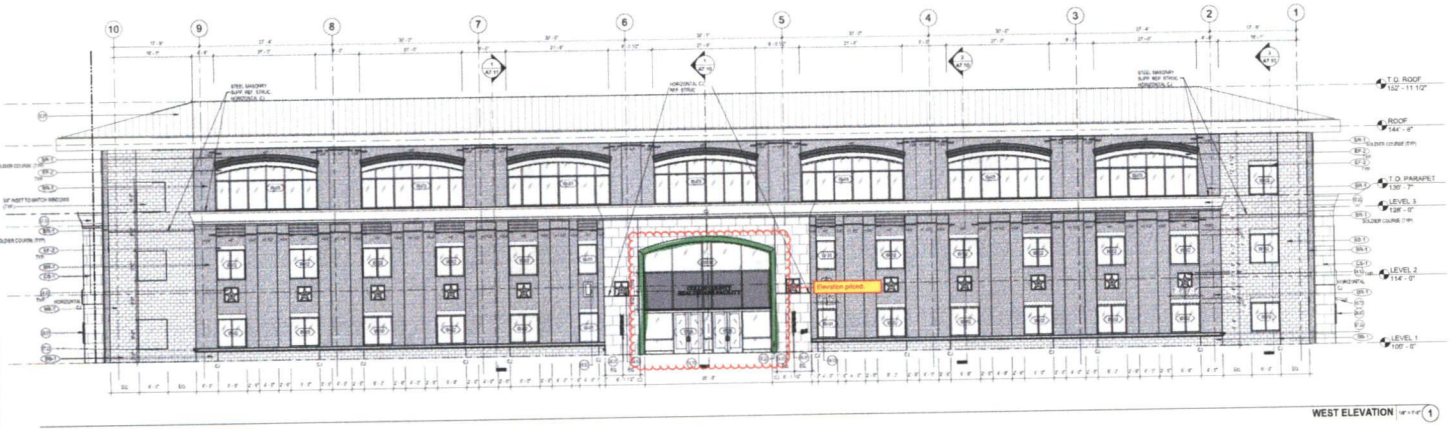


Shop drawings to include minimum requirements for modified design to anchor cast stone on arched steel lintel with securely anchored cast stone accent per cast stone manufacturer's requirements as specified by the Cast Stone Institute design recommendations, SMACNA and Masonry Institute recommendations for a water-tight installation, including separation of materials to prevent stains from efflorescence. Include structural engineering calculations for steel lintel with structural support to wall assembly and structure.

EXTERIOR MATERIALS LEGEND	
SYMBOL	DESCRIPTION
BR	BRICK
BL	BLANK
CS	CONCRETE
GL	GLASS
ST	STONE
MT	METAL

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
101	10' 0" SECTION
102	10' 0" SECTION
103	10' 0" SECTION
104	10' 0" SECTION
105	10' 0" SECTION
106	10' 0" SECTION
107	10' 0" SECTION
108	10' 0" SECTION
109	10' 0" SECTION
110	10' 0" SECTION

GENERAL EXT. ELEV. NOTES	
1.	ALL DIMENSIONS SHALL BE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2.	ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
3.	ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.
4.	ALL DIMENSIONS SHALL BE TO OUTLINE UNLESS OTHERWISE NOTED.
5.	ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.
6.	ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
7.	ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.
8.	ALL DIMENSIONS SHALL BE TO OUTLINE UNLESS OTHERWISE NOTED.
9.	ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.
10.	ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.



COLLIN COUNTY
2300 BLONDIALE
ROAD, SUITE 3100
FARMERSBURG, TX 75745
714.284.6340

PGAL
PGAL, INC.
14138 Midway Rd.
Suite 200
Austin, TX 78751
T 512.457.8441
www.pgal.com

PROJECT NAME
COLLIN COUNTY
HEALTHCARE
PARKING
GARAGE &
MEDICAL EXAM
FACILITIES

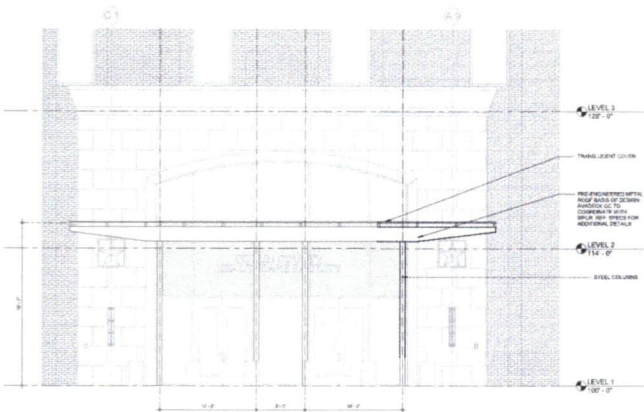
PROJECT LOCATION
2330 Bloomdale Rd.
McKinney, TX 75071

PROJECT NUMBER
1005549.00

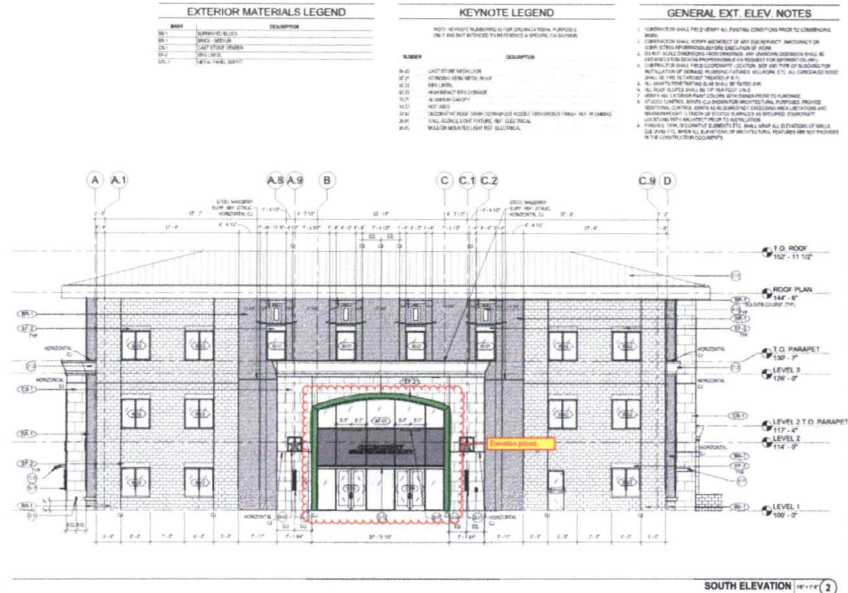
SHEET TITLE
BUILDING
ELEVATIONS -
EXTERIOR

VOLUME 2
HEALTHCARE FAC
SHEET NUMBER

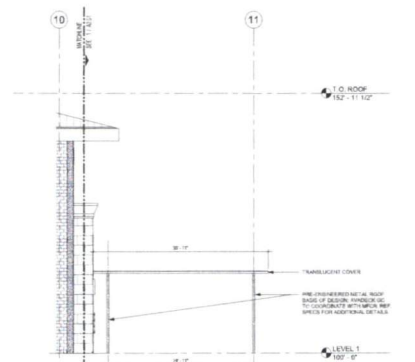
HC-A6.0'



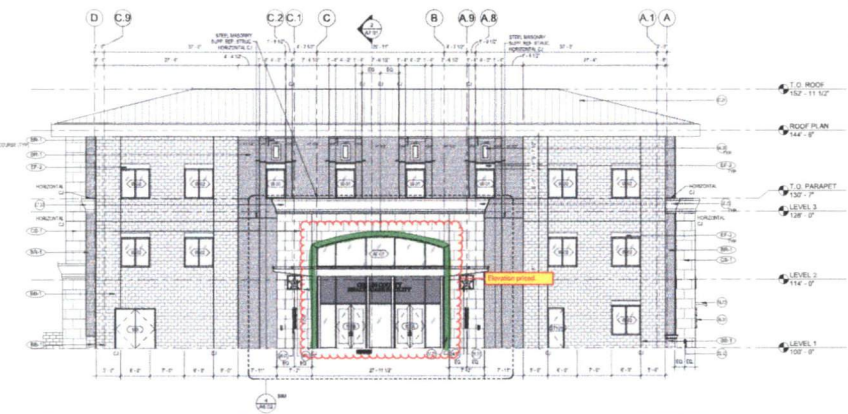
PORTE COCHERE ENLARGED NORTH ELEVATION (REV 04)



SOUTH ELEVATION (REV 02)



EAST ELEVATION - CANOPY (REV 03)



NORTH ELEVATION (REV 01)

EXTERIOR MATERIALS LEGEND

NO.	DESCRIPTION
001	CONCRETE BLOCK
002	BRICK
003	GLAZED TERRAZZO
004	GLAZED TERRAZZO
005	GLAZED TERRAZZO
006	GLAZED TERRAZZO

KEYNOTE LEGEND

NUMBER	DESCRIPTION
001	GLAZED TERRAZZO
002	GLAZED TERRAZZO
003	GLAZED TERRAZZO
004	GLAZED TERRAZZO
005	GLAZED TERRAZZO
006	GLAZED TERRAZZO

GENERAL EXT. ELEV. NOTES

1. ELEVATIONS SHALL BE TO FINISH SURF UNLESS OTHERWISE NOTED.
2. ELEVATIONS SHALL BE TO FINISH SURF UNLESS OTHERWISE NOTED.
3. ELEVATIONS SHALL BE TO FINISH SURF UNLESS OTHERWISE NOTED.
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8. ELEVATIONS SHALL BE TO FINISH SURF UNLESS OTHERWISE NOTED.
9. ELEVATIONS SHALL BE TO FINISH SURF UNLESS OTHERWISE NOTED.
10. ELEVATIONS SHALL BE TO FINISH SURF UNLESS OTHERWISE NOTED.

CLIENT
COLLIN COUNTY
 2300 BLONDIALE
 ROAD, SUITE 3100
 FORT WORTH, TX 76102

ARCHITECT
PGAL
 PGAL, INC.
 14115 Highway 196
 Suite 600
 Addison, TX 75001
 T. 972.467.6661
 www.pgal.com

CONSULTANT

REGISTRATION
 Certificate # 0021

DRAWING HISTORY

PROJECT NAME
 COLLIN COUNTY
 HEALTHCARE,
 PARKING
 GARAGE &
 MEDICAL EXAM
 FACILITIES

PROJECT LOCATION
 2330 Bloomdale Rd.
 McKinney, TX 75071

PROJECT NUMBER
 1006549.00

SHEET TITLE
 BUILDING
 ELEVATIONS -
 EXTERIOR

VOLUME 2
 HEALTHCARE FAC
 SHEET NUMBER

HC-A6.02

FILE NAME: 1006549.00-02-01
 DATE: 10/20/2014
 AUTHOR: PGAL
 CHECKED: PGAL
 APPROVED: PGAL

**Collin County Medical Campus
CHANGE ORDER REQUEST**

Contractor: The Christman Company
Subcontractor: DMG Plaster & Stucco Date: 1/28/2025
Subcontractor COR Number: _____ Change Order Document / RFI: _____

Description of Change: Change South, West, and North elevation curtain wall EIFS lintel to cast stone

Direct Labor Subtotal: \$ (1,560.00)
Material Subtotal: \$ (622.11)
Equipment Subtotal: \$ -
Vendor/Subcontracts Subtotal: \$ -

Onsite Man-hours: -44

Total Direct Cost: \$ (2,182.11)

GC Note: Man hours are less than the cast stone due to the cast stone being more labor intensive than the EIFs.

Total Change Amount: \$ (2,182)

Schedule Impact: n/a additional work days are requested.
Schedule Impact Description:

Exclusions:

Subcontractor Change Proposal / Cost Breakdown Form

Date: 1/28/2025

Architect Name: _____

Contractor Name: The Christman Company

Subcontractor Name: DMG Plaster & Stucco

Project Name: Collin County Medical Campus

(Check One)

DMG Job Number : _____

Initiated By: Owner/Architect ☐

GC Job Number: _____

GC ☐

Reference Change Proposal Request Number: 0

Subcontractor ☐

Brief Description of Proposed Change:

Change South, West, and North elevation curtain wall EIFS intel to cast stone

Item/Description	Quantity	Unit	Unit Cost	Amount		
				Material	Labor	Equip/Sub
Labor						
Superintendent	0	HR	\$90.00		\$0.00	
General Foreman	0	HR	\$70.00		\$0.00	
Foreman	0	HR	\$55.00		\$0.00	
Journeyman	-24	HR	\$40.00		-\$960.00	
Apprentice	0	HR	\$33.00		\$0.00	
Laborer	-20	HR	\$30.00		-\$600.00	
Scaffold Builder	0	HR	\$35.00		\$0.00	
Forklift Operator	0	HR	\$37.00		\$0.00	
Material						
EPS	-213	LF	\$1.00	-\$213.00		
Base Coat	-2	EA	\$55.00	-\$110.00		
Reinforcing Mesh Heavy	-0.5	EA	\$290.00	-\$145.00		
Reinforcing Mesh 4.5 oz	-0.5	EA	\$132.00	-\$66.00		
Tools/Equipment						
Forklift	0	DAY	\$245.00			\$0.00
Scaffold	0	SF	\$1.25			\$0.00
Misc. Equipment (ie. mixers, saws, etc.)	0	DAY	\$140.00			\$0.00
Misc. Tools	0	DAY	\$25.00			\$0.00
Fuel		DAY	\$85.00			\$0.00
Sub Contract						
		LS				\$0.00
			Sub Totals:	-\$534.00	-\$1,560.00	\$0.00
			Sales Tax:	-\$88.11		\$0.00
			Sub Totals:	-\$622.11	-\$1,560.00	\$0.00



GC TO COORDINATE SUBSTITUTION TO SPECIFICATIONS AND CAST STONE WITH CAST STONE INSTITUTE STANDARDS. COORDINATE MORTAR TYPE AND COMPATIBILITY OF MATERIALS, INCLUDING

DESIGN TIPS – TECHNICAL BULLETIN #47

FLASHING, WEEP HOLES AND RELATED ANCHORAGE [1 of 8]

Proper flashing and weep holes are essential elements in exterior masonry walls. Together, they provide a means to control moisture in a wall. If not addressed, moisture can have damaging effects on exterior walls. Excessive moisture within masonry can lead to crazing, efflorescence and spalling in some cases. Improper flashing can lead to moisture in the interior of a building. An effective system to deal with exterior moisture penetration is necessary for a properly functioning Cast Stone wall.

A drainage wall, also known as a cavity wall, is the most effective solution for a Cast Stone wall exposed to the elements.

THE DRAINAGE WALL

A drainage wall has five essential elements.

- Exterior wythe of masonry
- A clear cavity, or air space, of at least 1 inch
- An interior wythe of masonry or other backing material
- • Flashing at all interruptions in the drainage cavity
- • Weep holes at all flashing locations. Recommended spacing of 24 in. o.c.

The exterior wythe provides first resistance against moisture penetration. Cast Stone should be laid with full joints in mortar meeting the requirements of ASTM C 270, Type N mortar. (See Bulletin #42.) Care should be taken when laying the stone to ensure the cavity behind this wythe stays clear. A tapered bed joint can help minimize mortar droppings and protrusions into the drainage cavity. A minimum 1 in. cavity or air space is recommended. Cavities of 2 in. or more are easier to keep clear of mortar and debris. Cavities over 4 in. may require special ties and anchors. When insulation is specified, the clear space of the cavity is measured from the outer face of the insulation to the back of the exterior wythe. (See Detail 4.)

Through-wall flashing and weep holes should be used at the base of the drainage wall and at all interruptions in the cavity, such as at window heads and relieving angles. Flashing must be continuous and properly lapped and sealed at the base of the wall and at relieving angles. When flashing is used over openings, such as at windows, end dams are required. (See Detail 1.) Weep holes direct water from the drainage cavity to the outside. Open head joints of at least 1 in. in height are recommended. Open weep hole joints provide the best drainage. They should be spaced no more than 24 in. apart. Rope wicks can also be used, but weep holes should be placed closer together, at 16 in. o.c., since this type does not drain as quickly. Plastic tubes are not recommended because they are easily clogged by mortar or by insects. In stones over 24 in. in length, a 3/8 in. wide by 1 in. high notch through the base of the stone is recommended for drainage. Unnecessarily long lengths of stone are discouraged because adequate drainage between weep holes can be a problem. Moisture retained in the wall can lead to crazing of the Cast Stone.

FLASHING AT BASES

Flashing and weep holes must be used at the base of a cavity (drainage) wall and at all relieving angles. Flashing should extend from the exterior face of the Cast Stone wythe into the cavity. In the case of a masonry backing wythe, the flashing should be turned up a minimum of 8 in. and extend into the masonry backing. In framed backing walls, the flashing should extend up the cavity at least 8 in. and be attached to the exterior sheathing. Building paper or other water resistant membrane on the interior wythe should overlap the top of the flashing.

Flashing is also recommended below all Cast Stone belt courses and watertables that sit on a relieving angle or occur at a change in material, i.e. stone to brick. In most cases, flashing and weep holes should be placed directly below the Cast Stone course for proper drainage of the cavity. In cases where stone and clay brick are used together in the same wythe, the flashing also serves as a bond break between the Cast Stone and the brick.

DESIGN TIPS – TECHNICAL BULLETIN #47
FLASHING, WEEP HOLES AND RELATED ANCHORAGE [2 of 8]

Because clay brick undergoes irreversible moisture expansion and Cast Stone, like other cementitious products, tends to shrink, flashing between the different courses allows horizontal movement to occur without cracking the mortar joints or units. The Brick Industry Association's Technical Notes 18 Series provides further information on this topic. Stones must be anchored, top and bottom, to the backing material when this detail is used.

FLASHING OVER OPENINGS

Cast Stone window heads and arched openings also require flashing. If the Cast Stone is supported by a relieving angle, flashing and weep holes are located below the stone course, on the relieving angle. When no relieving angle is used, as in the case of structural stone lintels, flashing should be placed directly above the stone course. In either case, proper anchorage of the stone to the backing is imperative.

FLASHING AT COPING AND CAPS

Experience has shown that Cast Stone coping perform best when the mortar bond with the masonry wall is maintained. For this reason, flashing should not extend over the full width below the Cast Stone coping. Instead, the flashing should be turned down into the drainage cavity and then out through the exterior supporting wythe below. (See Detail Plates 5, 6 & 7) This prevents the potential for water to pond underneath, which can deteriorate the mortar through the freeze-thaw process. In extreme cases, even the cast stone may be damaged due to repeated cycles of freezing and thawing while critically saturated for extended periods of time. This differs from recommendations found in the Brick Industry Associations Technical Notes.

At chimney caps, step flashing from below the Cast Stone coping down through the first course of supporting masonry below the weep holes should be located in the head joints of the first course of supporting masonry. (See Detail 3.)

ANCHOR PENETRATIONS THROUGH FLASHING

The anchors for attaching Cast Stone may be required to penetrate flashing and building paper to allow a secure connection to the structure. Where this occurs, proper steps must be taken to ensure a watertight connection at the interface so that the anchor does not compromise the integrity of the flashing. Grommets, thimbles, sleeves, couplings and sealants are available for this purpose, but it is beyond the scope of this Technical Bulletin to provide specific guidance.

FLASHING MATERIALS

Flashing is a key element in a drainage wall. Poor flashing materials can become brittle over time and may allow water to penetrate the building interior. As a result, longevity and life cycle cost should be considered, in addition to first costs, when choosing a flashing material.

Flashing materials used successfully with Cast Stone include stainless steel, copper, copper laminates, EPDM, and rubberized asphalt. Polyvinyl chloride (PVC) and galvanized steel flashing should be avoided because of their questionable long-term performance. (See the Brick Industry Associations Engineering & Research Digest, "Through-Wall Flashing", for a detailed discussion.) Table 1 lists some advantages and disadvantages of each of the recommended flashing materials that must be considered in making a final selection.

DESIGN TIPS – TECHNICAL BULLETIN #47
FLASHING, WEEP HOLES AND RELATED ANCHORAGE [3 of 8]

Table 1: RECOMMENDED FLASHING MATERIALS

Material	Minimum Thickness	Advantages	Disadvantages
Stainless Steel	0.01 in. (0.25 mm)	Extremely durable, non-staining	Difficult to solder and form
Cold Rolled Copper	10 ounces/ft² (3100 g/m²)	Durable, easily formed, easily joined	Stains adjacent masonry
EPDM	30 mils (0.8 mm)	Flexible, easy to form, easy to join, non-staining	Metal drip edge required more easily torn
Rubberized Asphalt	30 mils (0.8 mm)	Self-healing, flexible, easy to form, easy to join	Dimensional instability, incompatibility with joint sealant, metal drip edge required
Copper Laminates	5 ounces/ft² (1500 g/m²)	Easy to form, easy to join, non-staining	Metal drip edge required, more easily torn

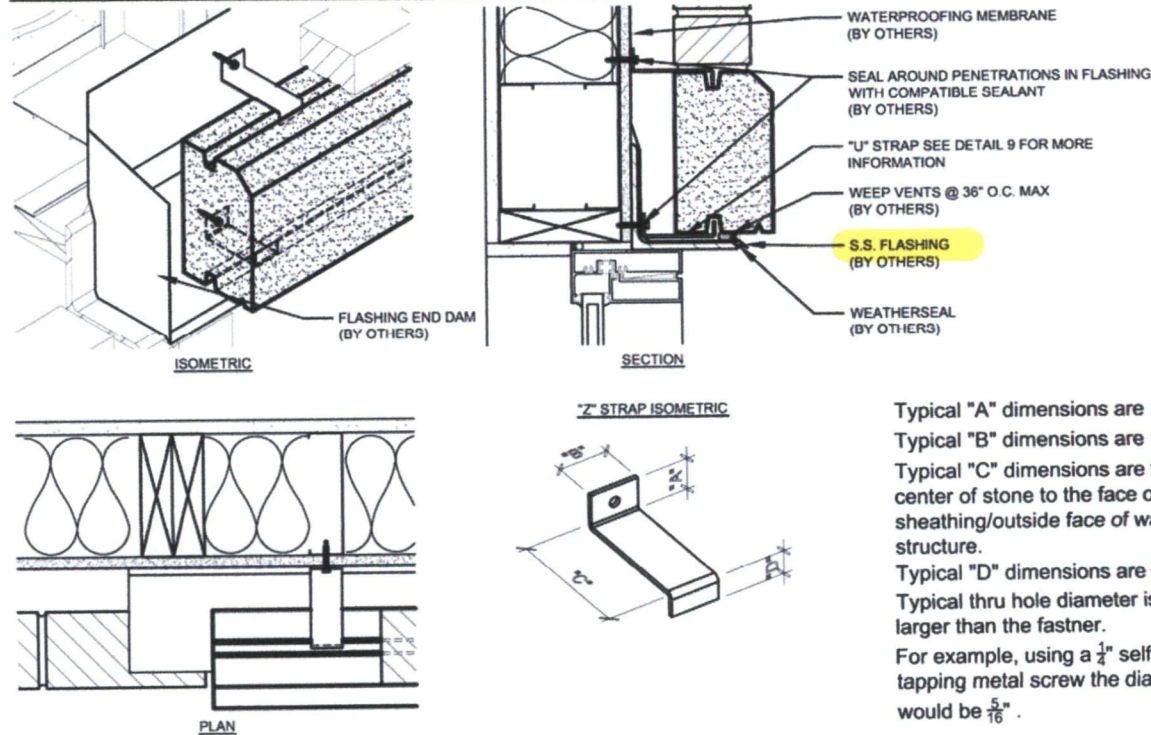
Table printed with permission from the Brick Industry Association Engineering & Research Digest, "Through-Wall Flashing".

DESIGN TIPS – TECHNICAL BULLETIN #47
FLASHING, WEEP HOLES AND RELATED ANCHORAGE [4 of 8]

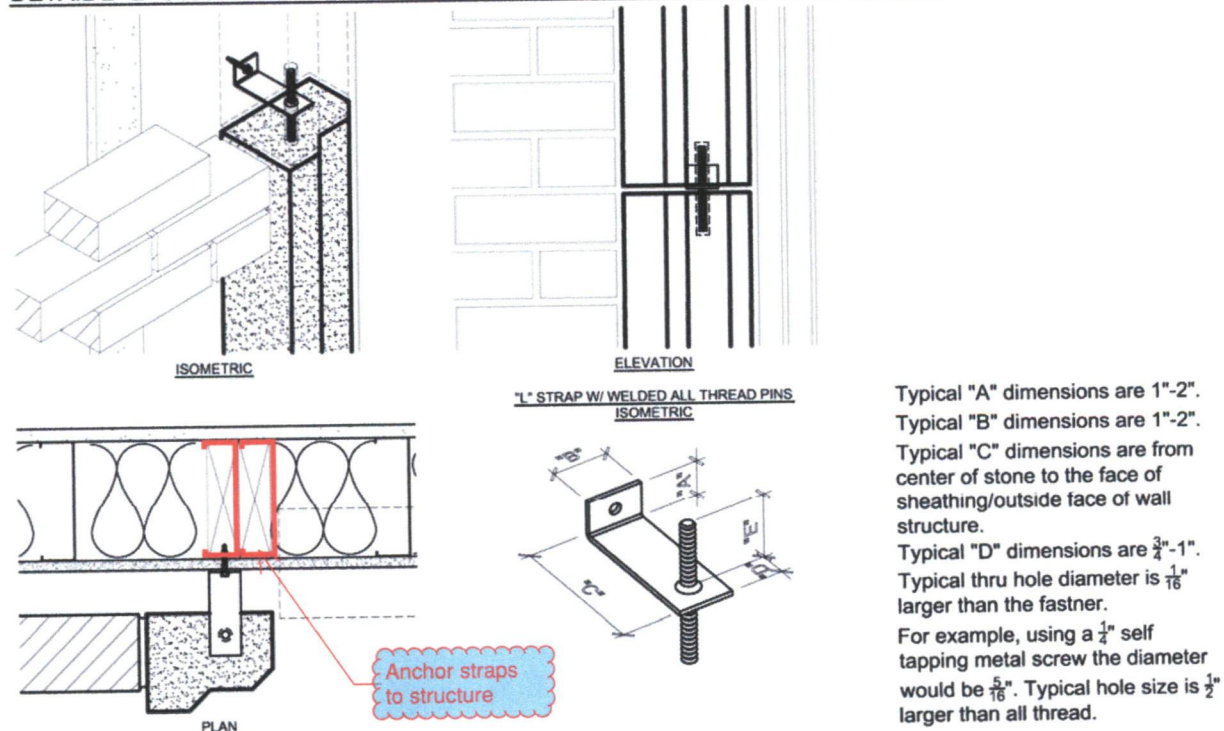
Anchoring and Flashing Details

These are typical connections recommended by the Cast Stone Institute for similar applications. Consult your engineer for size and connection requirement before ordering anchors.

DETAIL 1-"Z" STRAP ANCHOR @ HEADER



DETAIL 2-"L" STRAP W/ WELDED DOWEL PINS @ JAMB



This Technical Bulletin is provided by the Cast Stone Institute®, and is intended for guidance only.
Specific details should be obtained from the manufacturer or supplier of the Cast Stone units.

25A