

HIGH PERFORMANCE MASONRY CAVITY WALL 8" CMU W/ BRICK VENEER - 3" RIGID INSULATION

- 2" RIGID INSULATION OPTION (SEE A-12 FOR THERMAL PERFORMANCE)
- 3" MINERAL WOOL INSULATION OPTION (SEE A-12 FOR THERMAL PERFORMANCE)

HIGH PERFORMANCE QUALITIES

- ARCHITECTURAL
- STRUCTURAL
- ENERGY
- FIRF
- SOUND
- MOISTURE
- AIR

FOR ADDITIONAL INFORMATION ON HIGH PERFORMANCE QUALITIES OF MASONRY CAVITY WALLS, SEE "MASS BENEFITS"

NOTES:

1) A NOMINAL WALL ASSEMBLY THICKNESS OF 1'-4" IS SHOWN FOR MODULARITY, BUT THE DETAILS CAN BE MODIFIED TO ACCOMMODATE USER DESIRED VARIATIONS IN OVERALL WALL THICKNESS AS WELL AS VARIATIONS IN INSULATION AND AIR SPACE THICKNESS (A 1" MINIMUM AIR SPACE IS MANDATED BY CODE). SEE A-12 FOR THERMAL PERFORMANCE OPTIONS.

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III) MASONRY Institute of Michigan (CAVITY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.

APPROVED: T.A.D.

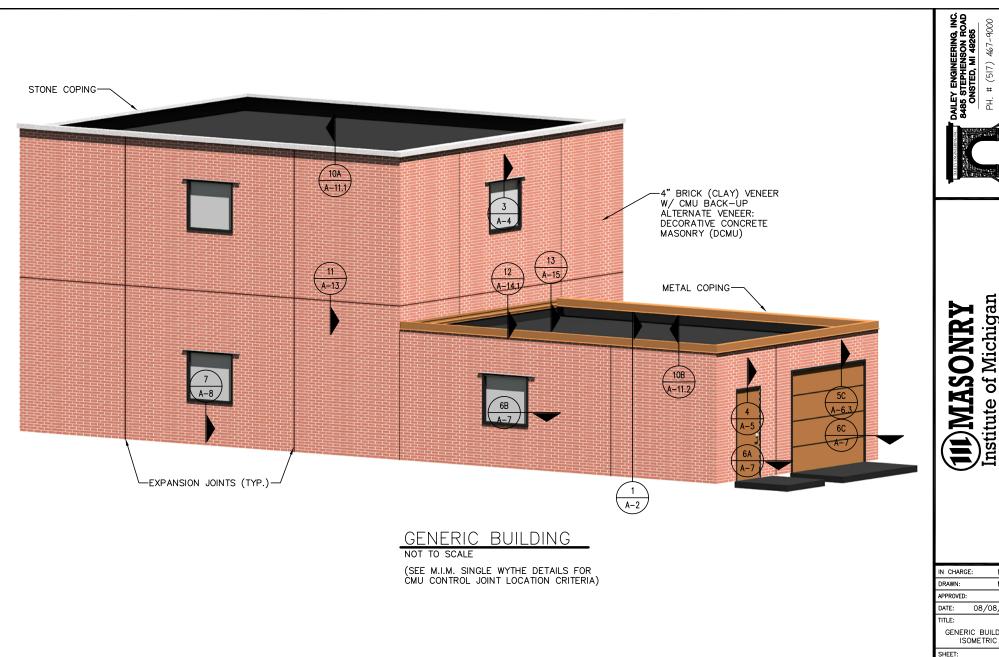
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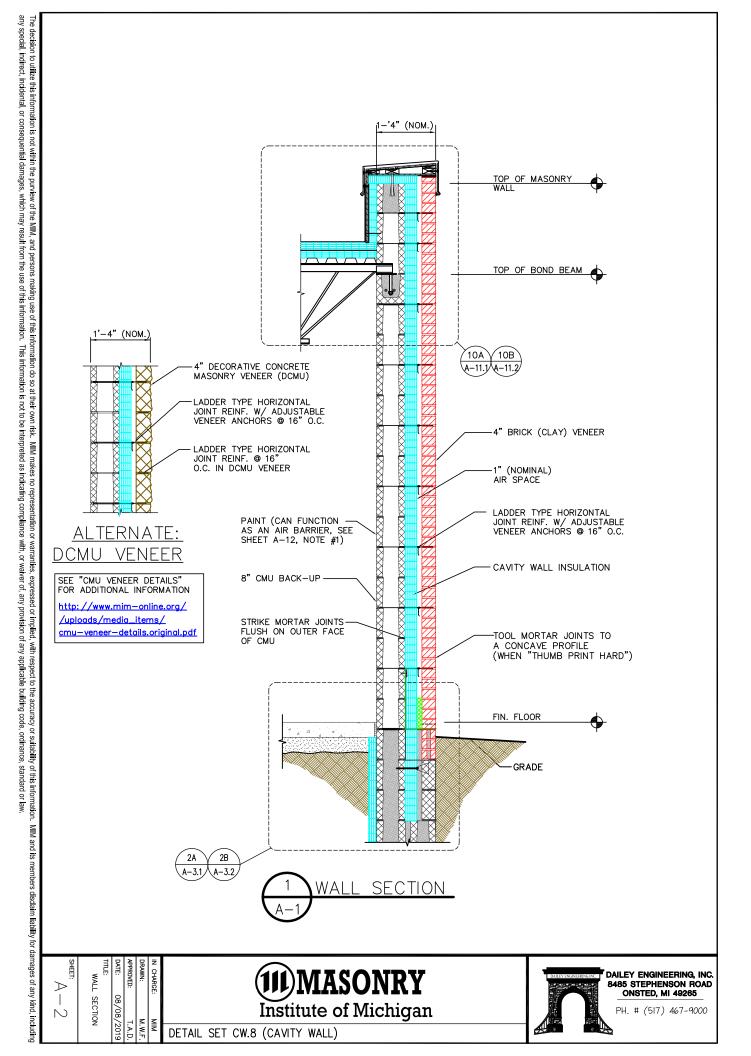
COVER
SHEET

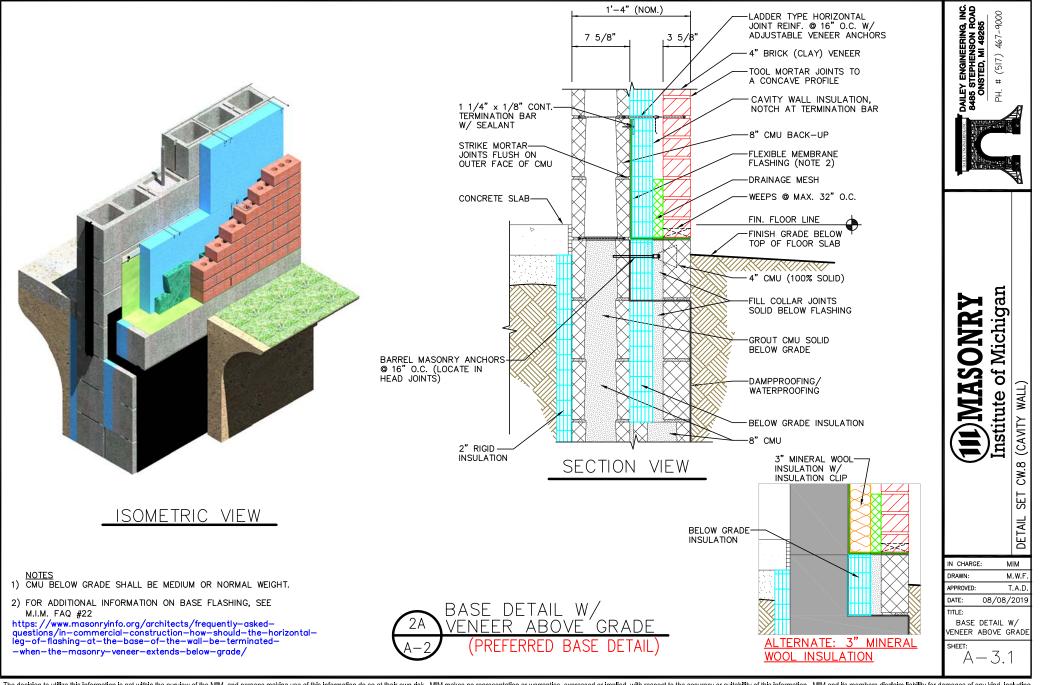
CW.8

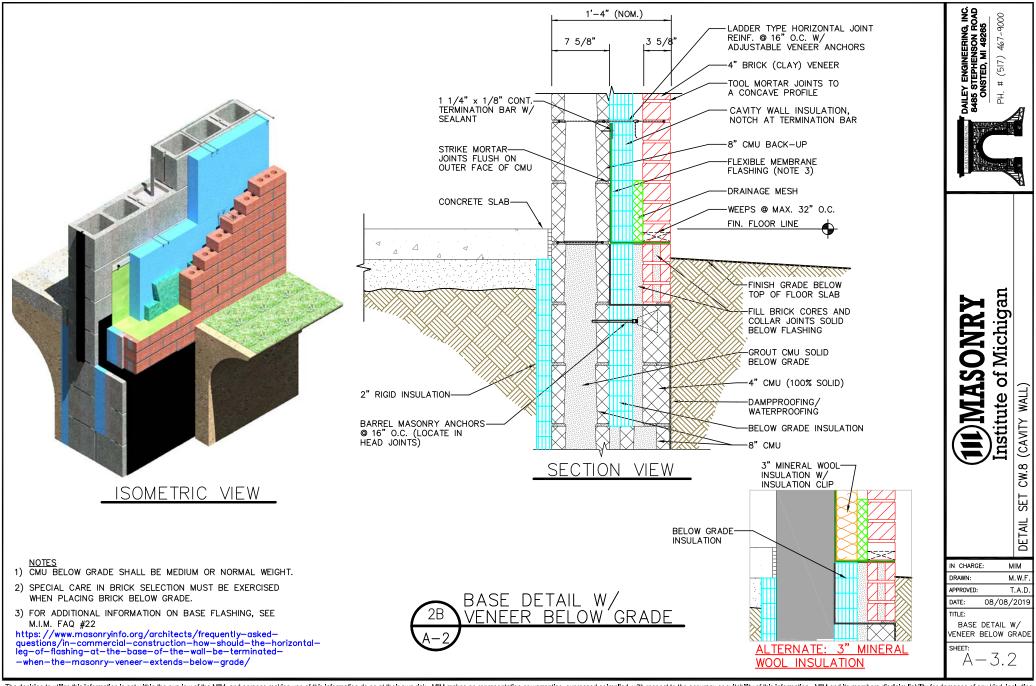
A-1.0



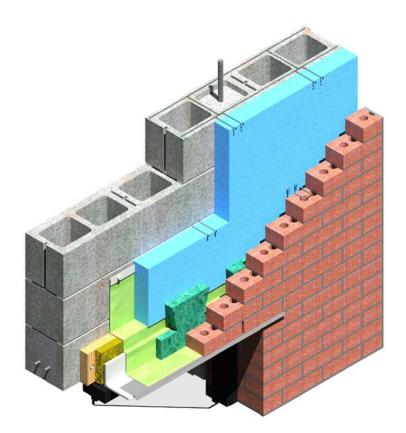
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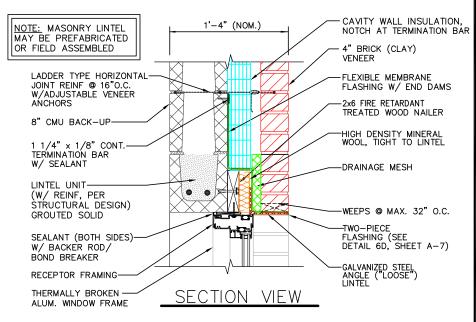






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ISOMETRIC VIEW



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PH. # (517) 467–9000

III) MASONRY Institute of Michigan

CW.8 (CAVITY WALL)

SET

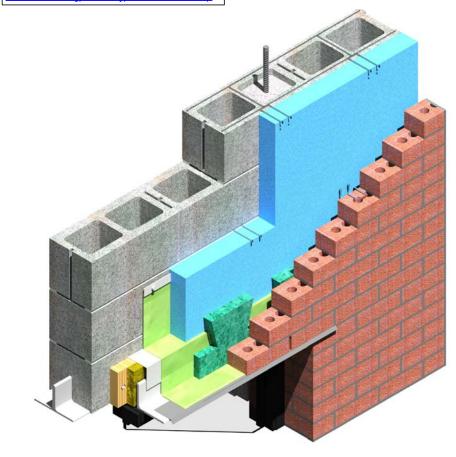
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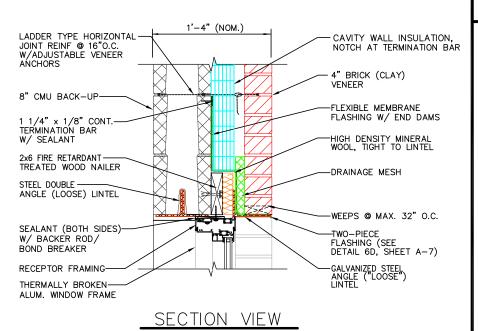
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DRAWN: M.W.F.
APPROVED: T.A.D.
DATE: 08/08/2019
TITLE:
SHORT SPAN MASONR\
LINTEL FOR RECEPTOR
STYLE WINDOWS

A - 4.1



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SHORT SPAN STEEL LINTEL FOR RECEPTOR STYLE WINDOWS DAILEY ENGINEERING, INC.
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Institute of Michigan CW.8 (CANTY WALL)

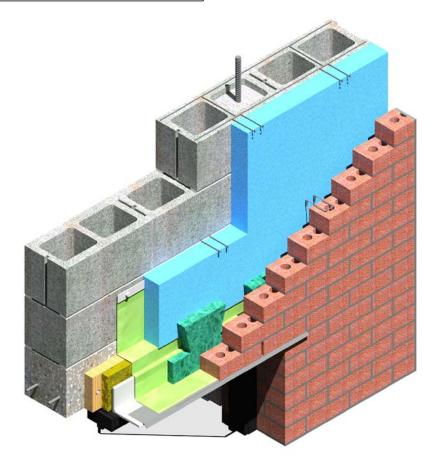
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LINTEL FOR RECEPTOR
STYLE WINDOWS

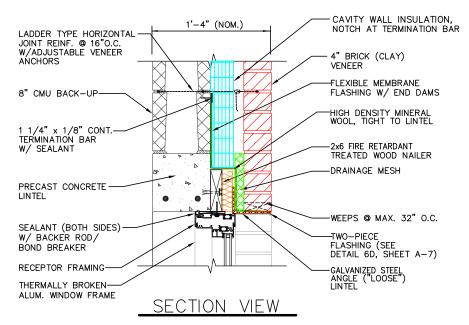
SET

DETAIL

A-4.2

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SHORT SPAN PRE-CAST LINTEL FOR RECEPTOR STYLE WINDOWS

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PH. # (517) 467-9000

(11) MASONRY
Institute of Michigan
CW.8 (CAVITY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.
APPROVED: T.A.D.

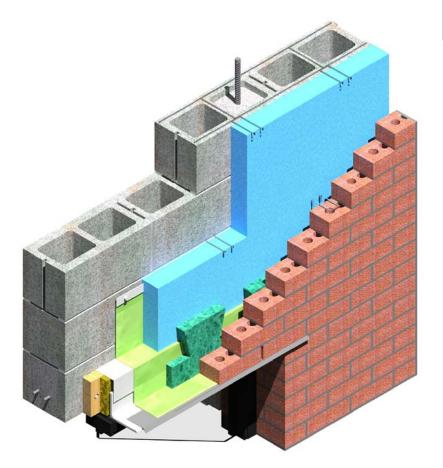
DATE: 08/08/2019

TITLE:
SHORT SPAN PRE-CAST
LINTEL FOR RECEPTOR
STYLE WINDOWS

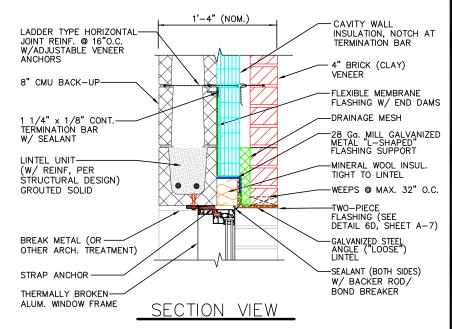
SET

A - 4.3

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NOTE: MASONRY LINTEL MAY BE PREFABRICATED OR FIELD ASSEMBLED



ISOMETRIC VIEW



SHORT SPAN MASONRY LINTEL FOR STRAP STYLE WINDOWS

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PH. # (517) 467-9000

(111) MASONRY
Institute of Michigan
CW.8 (CAVITY WALL)

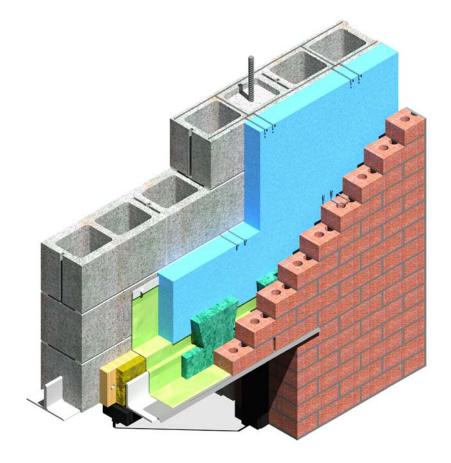
IN CHARGE: M.W.F.
APPROVED: T.A.D.
DATE: 08/08/2019
TITLE:
SHORT SPAN MASONRY
LINTEL FOR STRAP
STYLE WINDOWS

SET

неет: A — 4 4



www.cement.org/masonry/cc_al_frames.asp



LADDER TYPE HORIZONTAL -JOINT REINF. @ 16"O.C. W/ADJUSTABLE VENEER 1'-4" (NOM.) CAVITY WALL **ANCHORS** INSULATION, NOTCH AT TERMINATION BAR 4" BRICK (CLAY) 8" CMU BACK-UP **VENEER** -FLEXIBLE MEMBRANE FLASHING W/ END DAMS 1 1/4" x 1/8" CONT. TERMINATION BAR -DRAINAGE MESH W/ SEALANT –28 Ga. MILL GALVANIZED METAL "L—SHAPED" FLASHING SUPPORT STEEL DOUBLE ANGLE MINERAL WOOL INSUL. TIGHT TO LINTEL (LOOSE) LINTEL WEEPS @ MAX. 32" O.C. TWO-PIECE FLASHING (SEE DETAIL 6D, SHEET A-7) BREAK METAL (OR-OTHER ARCH. TREATMENT) -GALVANIZED STEEL ANGLE ("LOOSE") LINTEL STRAP ANCHOR--SEALANT (BOTH SIDES) W/ BACKER ROD/ SECTION VIEW BOND BREAKER THERMALLY BROKEN ALUM. WINDOW FRAME

ISOMETRIC VIEW



DAILEY ENGINEERING, INC.
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(111) MASONRY
Institute of Michigan
CW.8 (CAVITY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.
APPROVED: T.A.D.

DATE: 08/08/2019

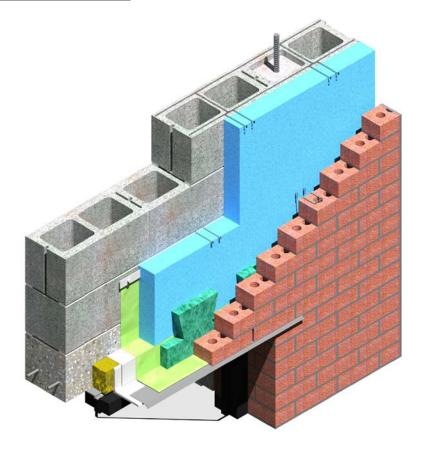
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SHORT SPAN STELL
LINTEL FOR STYLE WINDOWS

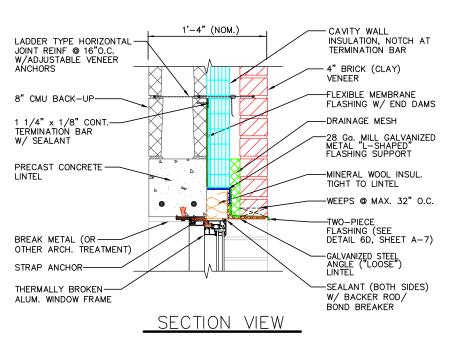
STYLE WINDOWS

SET

A-4.5

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SHORT SPAN PRE-CAST LINTEL FOR STRAP STYLE WINDOWS

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PH. # (517) 467-9000

Institute of Michigan CW.8 (CANTY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.

APPROVED: T.A.D.

DATE: 08/08/2019

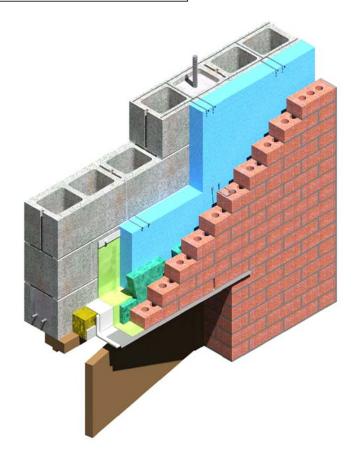
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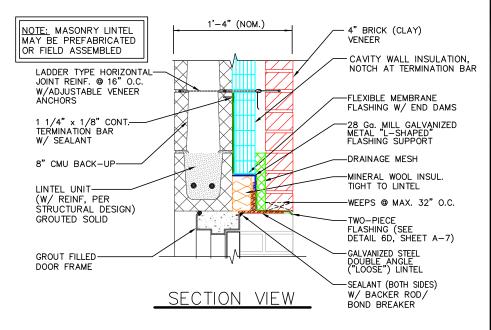
SHORT SPAN PRE-CAST
LINTEL FOR STRAP
STYLE WINDOWS

SET

A — 4 . 6

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Institute of Michigan
CW.8 (CAVITY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.

APPROVED: T.A.D.

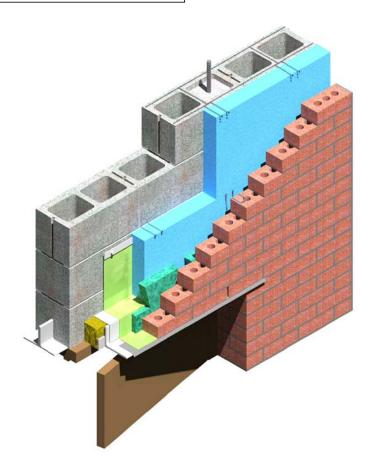
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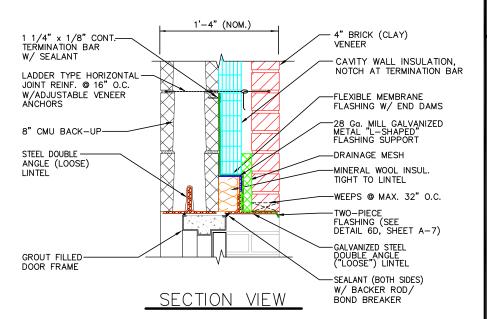
TITLE:
SHORT SPAN MASONRY
LINTEL FOR
DOOR OPENING

SET

DETAIL

SHEET: A — 5.1 www.cement.org/masonry/cc_al_frames.asp





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CW.8 (CAVITY WALL)

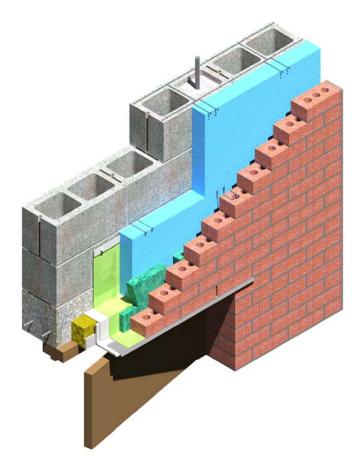
IN CHARSE: MIM
DRAWN: M.W.F.
APPROVED: T.A.D.
DATE: 08/08/2019
TITLE:
SHORT SPAN STEEL
LINTEL FOR
DOOR OPENING

SET

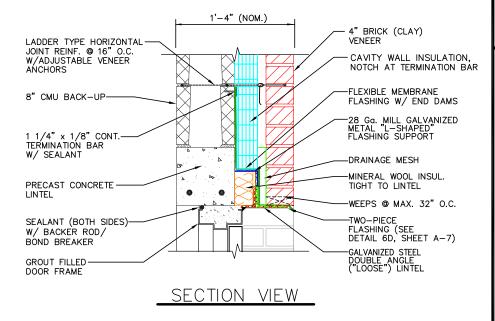
DETAIL

SHEET: A-5.2

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ISOMETRIC VIEW



SHORT SPAN PRE-CAST LINTEL FOR DOOR OPENING DAILEY ENGINEERING, INC.
8486 STEPHENSON ROAD
ONSTED, MI 49266
PH. # (517) 467-9000

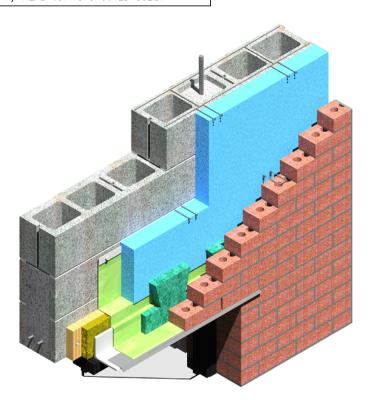
(11) MASONRY
Institute of Michigan
CW.8 (CAVITY WALL)

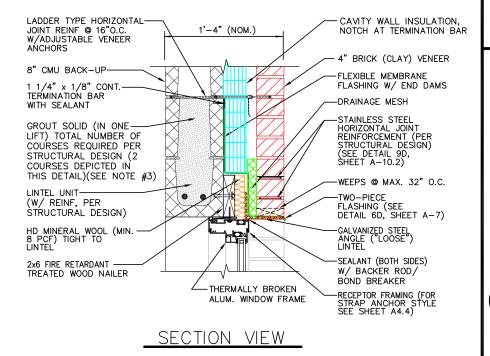
IN CHARGE: MIM
DRAWN: M.W.F.
APPROVED: T.A.D.
DATE: 08/08/2019
TITLE:
SHOTT SPAN PRE-CAST
LINTEL FOR
DOOR OPENING

SET

DETAIL

- 1) FOR ADDITIONAL INFORMATION ON THE REINFORCED BRICK LINTEL DEPICTED IN THIS DETAIL, SEE DETAIL 9B ON SHEET A-10.
- 2) UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INCUR DAMAGE. SEE PCA "MASONRY TODAY" VOLUME II, No. 1 FOR RECOMMENDATIONS. www.cement.org/masonry/cc_al_frames.asp
- 3) TO ACHIEVE SOLID GROUTING DO NOT USE JAMB UNITS. USE OPEN BOTTOM UNITS OR FLANGE UNITS W/ HEAD JOINTS GROUTED SOLID.





ISOMETRIC VIEW

ONG SPAN MASONRY LINTEL FOR WINDOW OPENING

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nstitute of Michigan MASONRY (CAVITY WALL)

IN CHARGE: MIM M.W.F DRAWN: APPROVED: T.A.D. 08/08/2019 TITLE:

CW.8

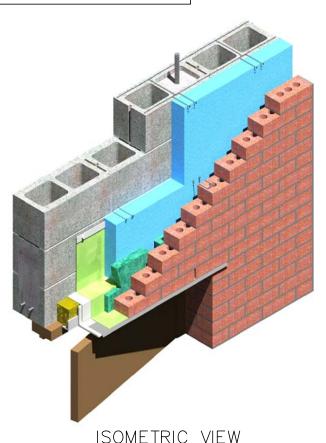
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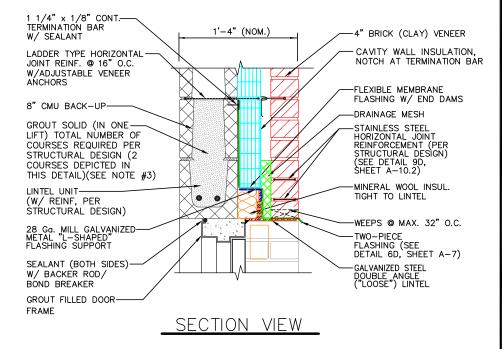
DETAIL

LONG SPAN MASONRY LINTEL FOR WINDOW OPENING

A-6.1

- 1) FOR ADDITIONAL INFORMATION ON THE REINFORCED BRICK LINTEL DEPICTED IN THIS DETAIL, SEE DETAIL 9B ON SHEET A-10.
- 2) UNPROTECTED ALUMINUM DOOR
 AND WINDOW FRAMES CAN INTERACT WITH
 CEMENT-BASED MATERIALS AND INCUR DAMAGE.
 SEE PCA "MASONRY TODAY" VOLUME II,
 No. 1 FOR RECOMMENDATIONS.
 www.cement.org/masonry/cc_al_frames.asp
- TO ACHIEVE SOLID GROUTING DO NOT USE JAMB UNITS. USE OPEN BOTTOM UNITS OR FLANGE UNITS W/ HEAD JOINTS GROUTED SOLID.





LONG SPAN MASONRY LINTEL FOR OPENING WITH MULTIPLE PEDESTRIAN DOORS

DAILEY ENGINEERING, INC. 8485 STEPHENSON ROAD ONSTED, MI 49265
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III) MASONRY Institute of Michigan (CANITY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.
APPROVED: T.A.D.

DATE: 08/08/2019

TITLE:
LONG SPAN MASONRY
LINTEL FOR
OPENING W/ MULTIPLE
PEDESTRIAN DOORS

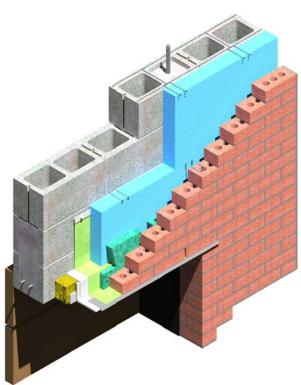
CW.8

SET

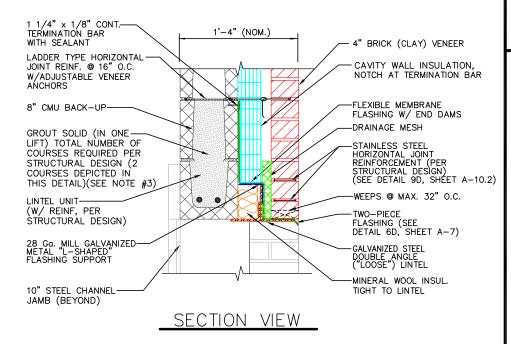
DETAIL

A-6.2

- 1) FOR ADDITIONAL INFORMATION ON THE REINFORCED BRICK LINTEL DEPICTED IN THIS DETAIL, SEE DETAIL 9B ON SHEET A-10.
- 2) UNPROTECTED ALUMINUM DOOR
 AND WINDOW FRAMES CAN INTERACT WITH
 CEMENT-BASED MATERIALS AND INCUR DAMAGE.
 SEE PCA "MASONRY TODAY" VOLUME II,
 No. 1 FOR RECOMMENDATIONS.
 www.cement.org/masonry/cc_al_frames.asp
- 3) TO ACHIEVE SOLID GROUTING DO NOT USE JAMB UNITS. USE OPEN BOTTOM UNITS OR FLANGE UNITS W/ HEAD JOINTS GROUTED SOLID.



ISOMETRIC VIEW



LONG SPAN MASONRY LINTEL FOR OVERHEAD DOOR OPENING

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Institute of Michigan
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IN CHARGE: MIM

DRAWN: M.W.F.

APPROVED: T.A.D.

DATE: 08/08/2019

TITLE:

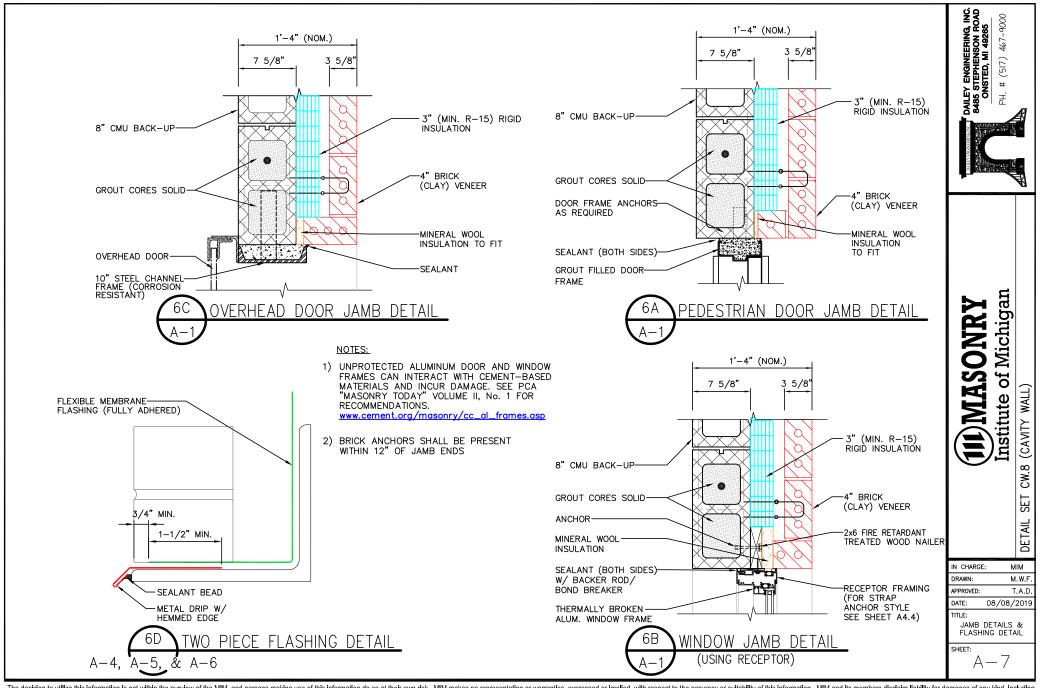
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LINTEL FOR

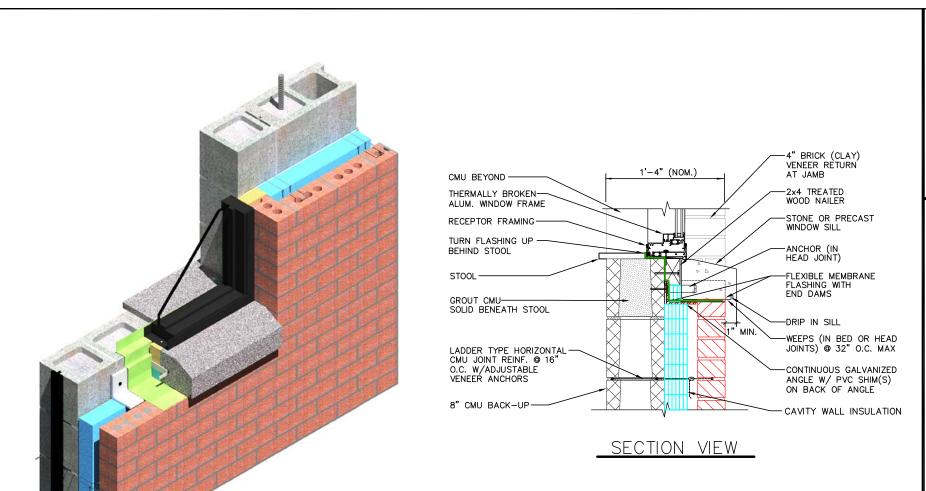
OVERHEAD

SET

DETAIL

DOOR OPENING A - 6.3





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CW.8 (CAVITY WALL)

IN CHARGE: MIM

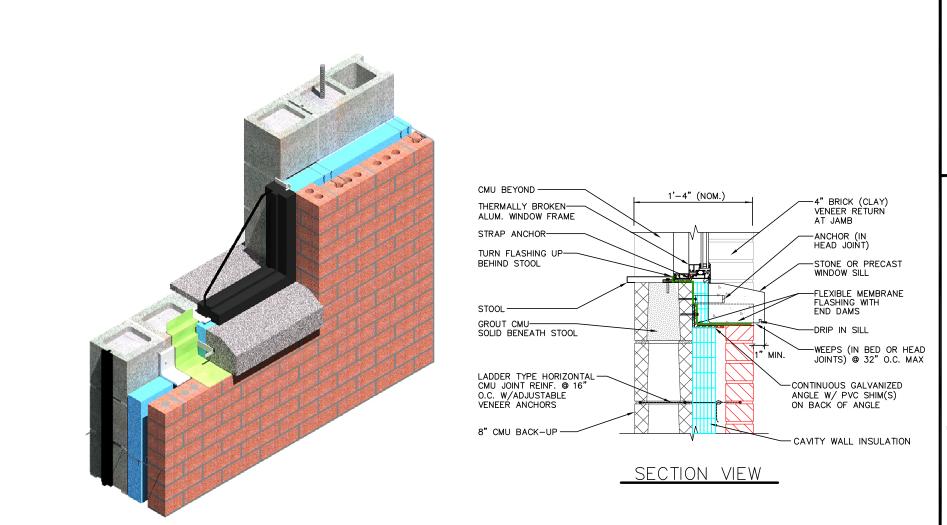
DRAWN: M.W.F.
APPROVED: T.A.D.

DATE: 08/08/2019

TITLE:
STONE/PRECAST
SILL FOR RECEPTOR
STYLE WINDOWS

SET

A - 8.1



ISOMETRIC VIEW

STONE/PRECAST SILL FOR STRAP STYLE WINDOWS

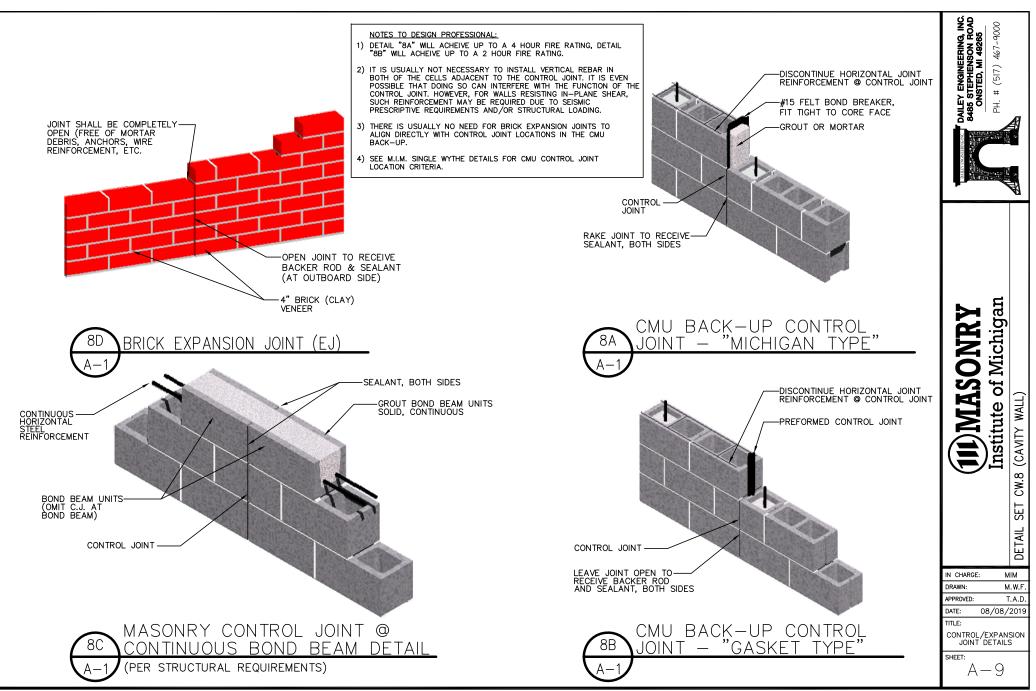
DAILEY ENGINEERING, INC. 8485 STEPHENSON ROAD ONSTED, MI 49265

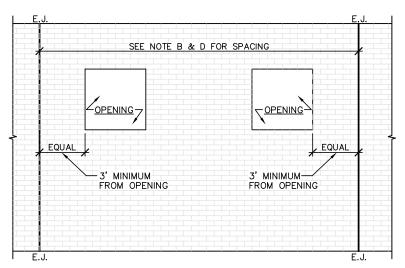
Institute of Michigan 111)MASONRY CW.8 (CAVITY WALL)

DETAIL MIM IN CHARGE: DRAWN: M.W.F APPROVED: T.A.D. 08/08/2019 TITLE: STONE/PRECAST SILL FOR STRAP STYLE WINDOWS

SET

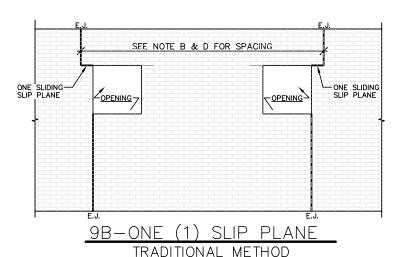
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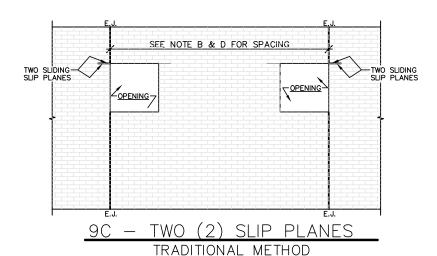




- 1) TYPICALLY EXPANSION JOINTS HAVE BEEN LOCATED AT OR VERY CLOSE TO THE SIDES OF OPENINGS. HOWEVER IT IS PREFERRED FOR EXPANSION JOINTS TO BE LOCATED AWAY FROM THE EDGES OF THE OPENINGS. DETAILS 9A & 9D ILLUSTRATES THE APPLICATION OF THIS APPROACH.
- 2) SEE BIA TEK NOTE 18A AND "BRICK EXPANSION JOINTS AND WALL OPENINGS" (BY J. GREGG BORCHELT, PE) (PUBLISHED IN "THE STORY POLE" JULY/AUG. 2007 VOL. 38 NO. 4) FOR ADDITIONAL GUIDANCE ON LOCATING EXPANSION JOINTS. ADD HYPERLINK HERE
- SEE M.I.M. SINGLE WYTHE DETAILS FOR CMU CONTROL JOINT LOCATION CRITERIA.

9A-NO SLIP PLANE - PREFERRED METHOD





9 BRICK VENEER EXPANSION — JOINT LOCATION A-10 FOR OPENINGS 8' OR LESS WITH LOOSE STEEL LINTEL

NOTE: SEE SHEET A-10.2 FOR DEFINITIONS NOTES: 1/2" JOINTS:

A) WITHOUT OPENING 25' MAX. (NOT SHOWN)

B) WITH OPENING 20' MAX. SYMMETRICALLY PLACED

3/8" JOINTS:

C) WITHOUT OPENING 20' MAX. (NOT SHOWN)

D) WITH OPENING 15' MAX. SYMMETRICALLY PLACED

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(111) MASONRY
Institute of Michigan
CW.8 (CANTY WALL)

IN CHARGE: MIM
DRAWN: M.W.F.
APPROVED: T.A.D.
DATE: 08/08/2019
TITLE:
BRICK VENEER EXPANSION
JOINT LOCATIONS
SHEET:

SET

DETAIL

A-10.1

JOINT LOCATIONS

IN CHARGE:

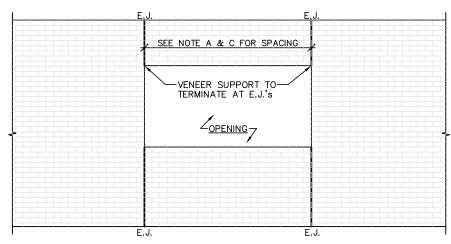
DRAWN:

SHEET: A - 10.2

SEE NOTE B & D FOR SPACING 12" MIN. HORIZONTAL JOINT REINFORCEMENT (PER STRUCTURAL DESIGN) ∠<u>OPENING</u> → PROVIDE SEALANT JOINTS AT THE TOE OF THE FLASHING SUPPORT ANGLE, ALSO INCLUDE BACKER ROD AT THE ENDS OF THE FLASHING SUPPORT ANGLE (SEE BIA TEK NOTE 18A, FIGURE 6 FOR ADDITIONAL INFORMATION) JOINTS SYMMETRICALLY LOCATED AWAY FROM EDGE OF WALL OPENINGS

9D - BRICK MASONRY EXPANSION JOINT LOCATION - PREFERRED METHOD

FOR OPENINGS OF ANY SIZE W/ A REINFORCED BRICK MASONRY LINTEL



9E - BRICK VENEER EXPANSION JOINT LOCATION - TRADITIONAL METHOD

FOR OPENINGS GREATER THAN 8

1/2" JOINTS:

NOTES: $s_e = \frac{w_j e_j}{0.09}$

A) WITHOUT OPENING 25' MAX. (NOT SHOWN)

B) WITH OPENING 20' MAX. SYMMETRICALLY PLACED

3/8" JOINTS:

- C) WITHOUT OPENING 20' MAX. (NOT SHOWN)
- D) WITH OPENING 15' MAX. SYMMETRICALLY PLACED

NOTES:

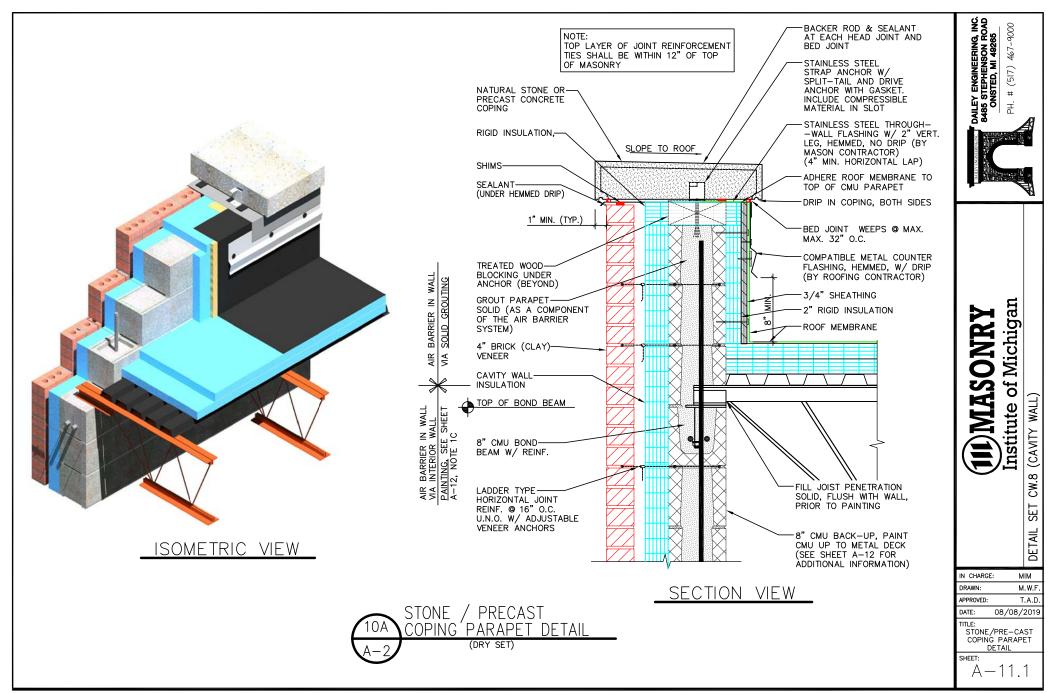
- 1) TYPICALLY EXPANSION JOINTS HAVE BEEN LOCATED AT OR VERY CLOSE TO THE SIDES OF OPENINGS. HOWEVER IT IS PREFERRED FOR EXPANSION JOINTS TO BE LOCATED AWAY FROM THE EDGES OF THE OPENINGS. DETAILS 9A & 9D ILLUSTRATES THE APPLICATION OF THIS APPROACH.
- 2) SEE BIA TEK NOTE 18A AND "BRICK EXPANSION JOINTS AND WALL OPENINGS" (BY J. GREGG BORCHELT, PE) (PUBLISHED IN "THE STORY POLE" JULY/AUG. 2007 VOL. 38 NO. 4) FOR ADDITIONAL GUIDANCE ON LOCATING EXPANSION JOINTS. ADD HYPERLINK HERE
- 3) SEE M.I.M. SINGLE WYTHE DETAILS FOR CMU CONTROL JOINT LOCATION CRITERIA.

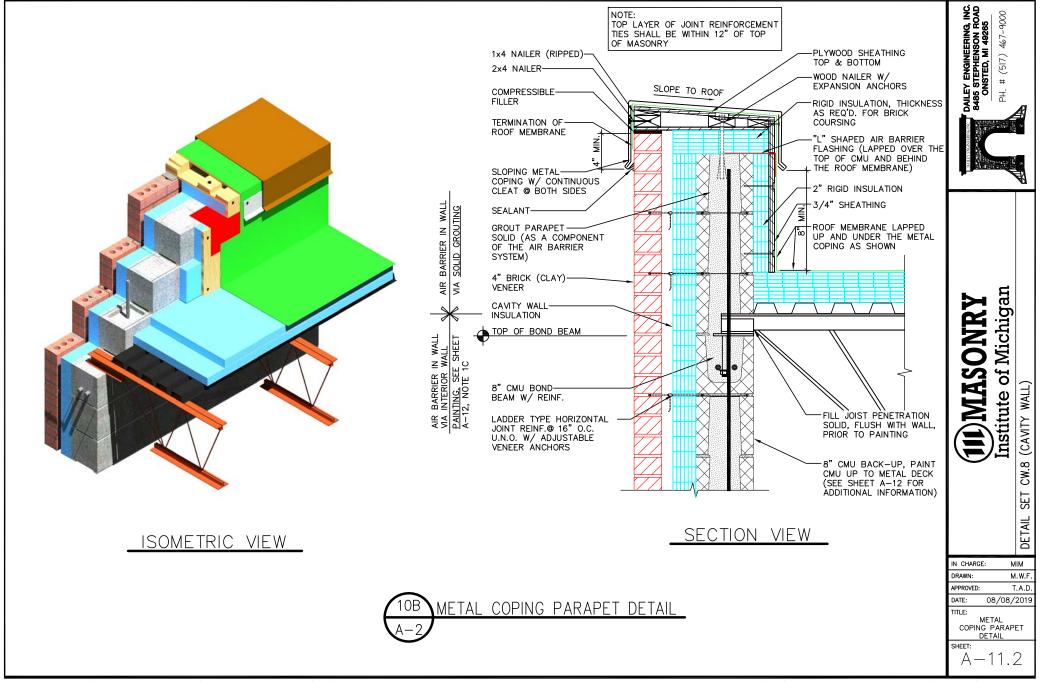
DEFINITIONS:

- Se = SPACING BETWEEN EXPANSION JOINTS, IN. (MM)
- =WIDTH OF EXPANSION JOINT, TYPICALLY THE MORTAR JOINT WIDTH, IN. (MM)
- e; = percent extensibility of expansion JOINT MATERIAL

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"CONTROL LAYER" INFORMATION

1) THERMAL CONTROL LAYER:

A) THERMAL PROPERTIES FOR WALLS ABOVE GRADE FOR EACH INSULATION OPTION:

3" RIGID INSULATION

2" RIGID INSULATION

3" WOOL INSULATION

Rci = 15.0 Rassembly = 18.41 Uassembly = 0.0543 Rci = 10.0 Rassembly = 13.41 Uassembly = 0.0764 Rci = 12.9Rassembly = 16.31Uassembly = 0.0613

CALCULATED R AND U VALUES ARE FOR CLAY BRICK AND CMU BLOCK WALLS.

B) ASHRE 90.1-2013 PRESCRIPTIVE COMPLIANCE REQUIREMENTS FOR MASS WALLS FOR CLIMATE ZONES 5, 6, & 7; AND COMPLIANT INSULATION OPTIONS:

	WALLS ABOVE GRADE			WALLS BELOW GRADE	FLOOR SLABS
ZONE	CONTINUOUS INSULATION METHOD (Rci MINIMUM)	Umax METHOD (Umax OF ENTIRE WALL ASSEMBLY)	COMPLIANT INSULATION OPTIONS	WALL BELOW GRADE INSULATION MIN. R-VALUE	UNHEATED SLAB INSULATION MIN. R-VALUE
5	Rci ≥ 11.4	Uassembly ≤ 0.090	3" RIGID (Rmin, Umax) 2" RIGID (Umax) 3" WOOL (Rmin, Umax)	R-7.5. c.i.	R-15 FOR 24"
6	Rci ≥ 13.3	Uassembly ≤ 0.080	3" RIGID (Rmin, Umax) 2" RIGID (Umax) 3" WOOL (Umax)	R-10 c.i.	R-20 FOR 24"
7	Rci ≥ 15.2	Uassembly ≤ 0.071	3" RIGID (Umax) 3" WOOL (Umax)	R-15 c.i.	R-20 FOR 24"

- MICHIGAN RANGES FROM ZONE 5 IN THE SOUTH TO ZONE 7 IN THE NORTH
 - C) IN ORDER TO USE THE PRESCRIPTIVE PROVISIONS OF REFERENCED ENERGY CODE, WALL OPENINGS ARE LIMITED TO A MAXIMUM 40% OF GROSS WALL AREA, AND SKYLIGHTS ARE LIMITED TO A MAXIMUM 5% OF THE GROSS ROOF AREA.

2) AIR CONTROL LAYER:

- A) THE AIR CONTROL LAYER IS OFTEN REFERED TO AS AN "AIR BARRIER" (SYSTEM). SEVERAL PRODUCTS AND OPTIONS (SUCH AS LIQUID OR MEMBRANE APPLIED PROPRIETARY SYSTEMS) ARE AVAILABLE. WITH DIFFERING LEVELS OF COST AND COMPLEXITY.
- B) THIS SET OF DETAILS REFLECTS AN AIR BARRIER SYSTEM ACHIEVED WITH SPECIFIC MASONRY DETAILING/CONSTRUCTION AND NON-PROPRIETARY COATINGS DESCRIBED IN NOTE C BELOW.
- C) THE FOLLOWING NON-PROPRIETARY COATINGS ARE CONSIDERED TO MEET AN AIR LEAKAGE OF LESS THE 0.04 CFM/SQ. FT. @ 75 Pa. (SEE NCMA TEK 6-14A FOR ADDITIONAL INFORMATION).
 - 1) PRESCRIPTIVE COMPLIANCE:
 - FULLY GROUTED CMU
 - CMU WALL WITH ONE APPLICATION OF BLOCK FILLER AND TWO APPLICATIONS OF A PAINT OR SEALER COATING
 - CMU WALL WITH A PORTLAND CEMENT/SAND PARGE, STUCCO OR PLASTER WITH A MINIMUM THICKNESS OF 1/2".
 - 2) BY LABORATORY TESTING:
 - 12" CMU SEALED WITH AT LEAST (2) COATS OF COMMERCIAL-GRADE LATEX PAINT.
 - 8" CMU COATED WITH A SINGLE COAT OF HIGH QUALITY LATEX PAINT.
 - 8" CMU COATED WITH A SINGLE COAT OF MASONRY BLOCK FILLER.

3) MOISTURE CONTROL LAYER:

- A) THIS DRAINAGE WALL ASSEMBLY INHERENTLY PROVIDES MAXIMUM PROTECTION AGAINST WATER PENETRATION. UNLINE MANY OTHER WALL SYSTEMS, A SEPARATE WEATHER RESISTIVE BARRIER IS UNNECESSARY.
- 4) VAPOR CONTROL LAYER:
 - A) BASED ON MULTIPLE DEW POINT ANALYSES FOR CLIMATE ZONE 5 (INCLUDING INDOOR HUMIDITY CONDITIONS VARYING FROM NON-HUMIDIFIED TO HIGH HUMIDITY), THE DEW POINT IN THIS CAVITY WALL SYSTEM OCCURS ONLY IN THE WET ZONE. THEREFORE A VAPOR CONTROL LAYER IS NOT NECESSARY. CAREFUL CONSIDERATION SHOULD BE GIVEN BEFORE INCLUDING A VAPOR RETARDER.



Institute of Michigan CW.8 (CANTY WALL)

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DRAWN: M.W.F.

APPROVED: T.A.D.

DATE: 08/08/2019

TITLE:

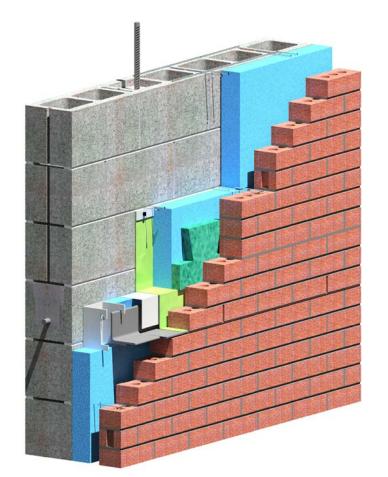
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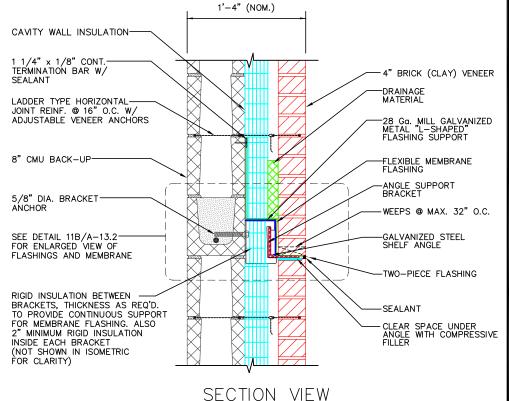
LAYER" INFORMATION

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ISOMETRIC VIEW

11A BRICK LEDGER DETAILS FOR CMU BACK-UP DETAIL
A-13

DAILEY ENGINEERING, INC.

8486 STEPHENSON ROAD
ONSTED, MI 49266

PH. # (517) 467-9000

(11) MASONRY
Institute of Michigan
CW.8 (CAVITY WALL)

IN CHARGE: MIM

DRAWN: M.W.F.

APPROVED: T.A.D.

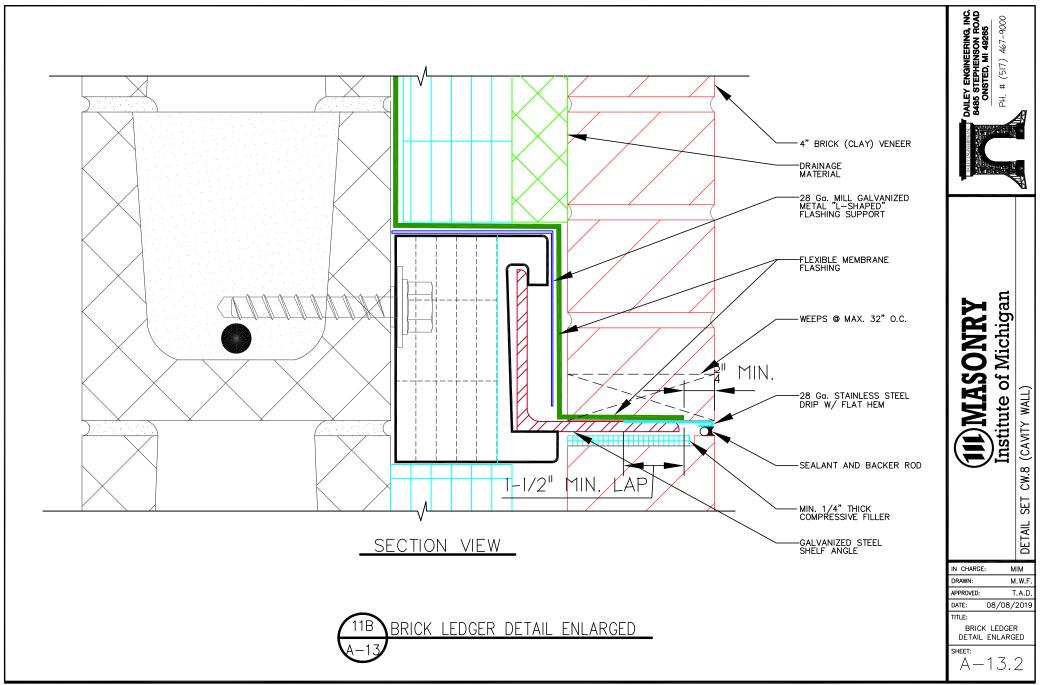
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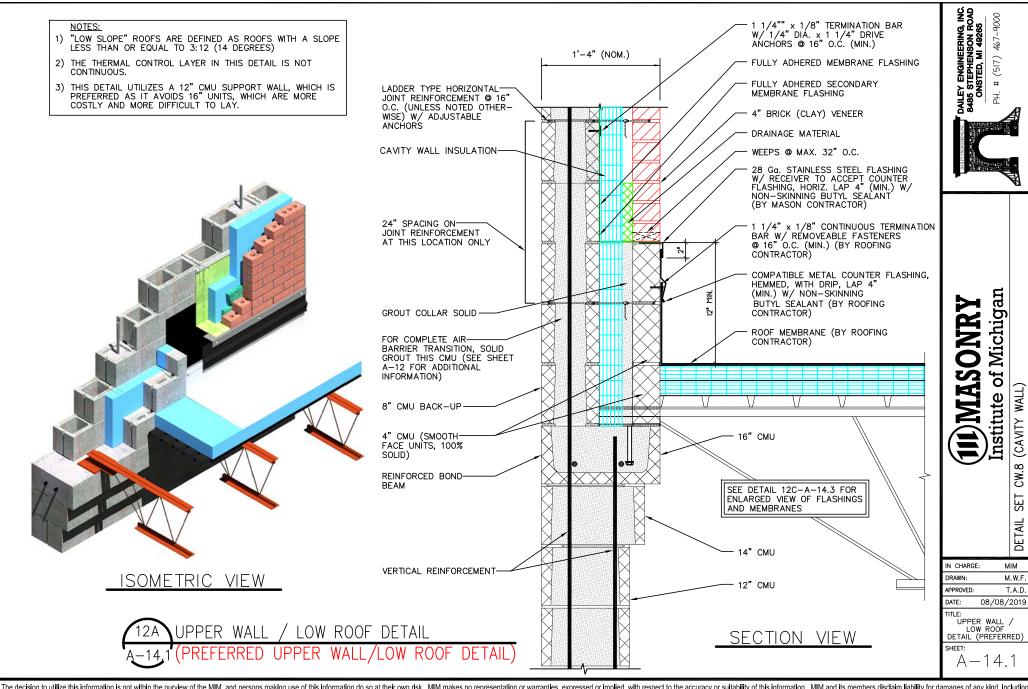
TITLE:
BRICK LEDGER
FOR CMU
BACK-UP DETAIL

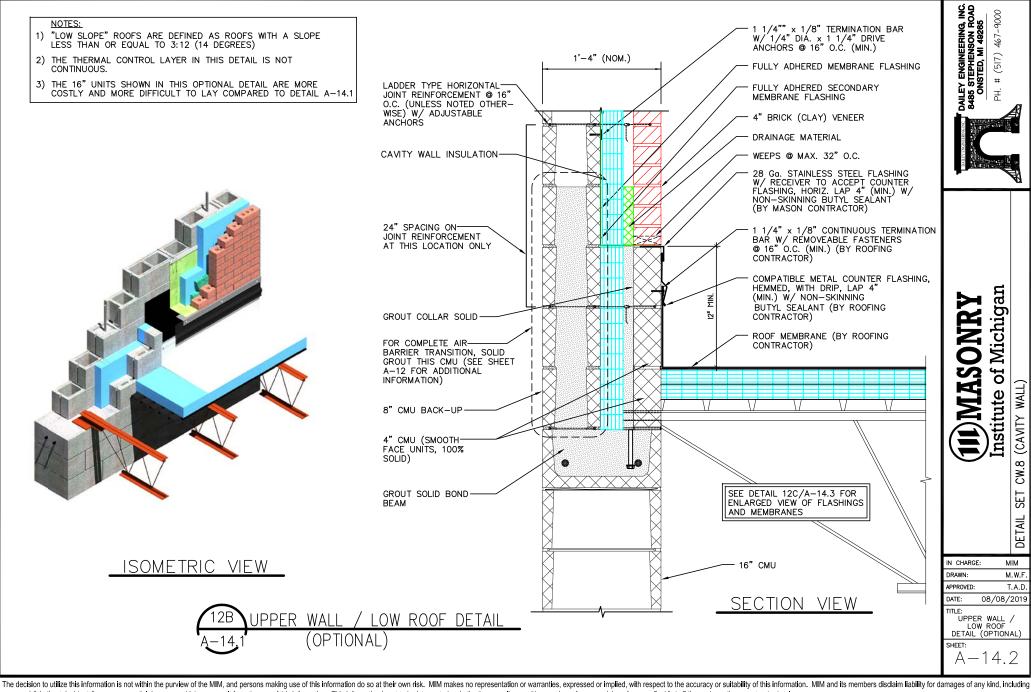
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DETAIL

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