**INDEX – 2” HIGH PERFORMANCE CAVITY WALL (8” CMU W/ BRICK VENEER)**

1) A-1 GENERIC BUILDING ISOMETRIC
2) A-2 WALL SECTION W/ VENEER BELOW GRADE
3) A-3.1 BASE DETAIL W/ VENEER BELOW GRADE
4) A-3.2 BASE DETAIL W/ VENEER ABOVE GRADE
5) A-4.1 SHORT SPAN MASONRY LINTEL FOR RECEPTOR STYLE WINDOWS
6) A-4.2 SHORT SPAN STEEL LINTEL FOR RECEPTOR STYLE WINDOWS
7) A-4.3 SHORT SPAN PRE-CAST LINTEL FOR RECEPTOR STYLE WINDOWS
8) A-4.4 SHORT SPAN MASONRY LINTEL FOR STRAP STYLE WINDOWS
9) A-4.5 SHORT SPAN STEEL LINTEL FOR STRAP STYLE WINDOWS
10) A-4.6 SHORT SPAN PRE-CAST LINTEL FOR STRAP STYLE WINDOWS
11) A-5.1 SHORT SPAN MASONRY LINTEL FOR DOOR OPENING
12) A-5.2 SHORT SPAN STEEL LINTEL FOR DOOR OPENING
13) A-5.3 SHORT SPAN PRE-CAST LINTEL FOR DOOR OPENING
14) A-6.1 LONG SPAN MASONRY LINTEL FOR WINDOW OPENING
15) A-6.2 LONG SPAN MASONRY LINTEL FOR OPENING W/ MULTIPLE PEDESTRIAN DOORS
16) A-6.3 LONG SPAN MASONRY LINTEL FOR OVERHEAD DOOR OPENING
17) A-7 JAMB DETAILS & FLASHING DETAIL
18) A-8.1 STONE/PRECAST SILL FOR RECEPTOR STYLE WINDOWS
19) A-8.2 STONE/PRECAST SILL FOR STRAP STYLE WINDOWS
20) A-9 CONTROL/EXPANSION JOINT DETAILS
21) A-10 BRICK EXPANSION JOINT LOCATION DETAILS
22) A-11.1 STONE/PRECAST COPING PARAPET DETAIL
23) A-11.2 METAL COPING PARAPET DETAIL
24) A-12 ADDITIONAL "CONTROL LAYER" INFORMATION
25) A-13 BRICK LEDGER FOR CMU BACK-UP DETAIL
26) A-14.1 UPPER WALL / LOW ROOF FLASHING DETAIL
27) A-14.2 UPPER WALL / LOW ROOF FLASHING ENLARGED DETAIL

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ISOMETRIC VIEW

NOTES:
1) CMU BELOW GRADE SHALL BE MEDIUM OR NORMAL WEIGHT.
2) SPECIAL CARE IN BRICK SELECTION MUST BE EXERCISED WHEN PLACING BRICK BELOW GRADE.
3) IF A DRIP EDGE IS NOT DESIRED, THE FLASHING MEMBRANE SHALL, MINIMALLY, EXTEND TO THE OUTBOARD SURFACE OF THE EXTERIOR WALL FINISH. IF A METAL DRIP EDGE IS DESIRED, MODIFY THIS DETAIL TO BE SIMILAR TO THE 2-PIECE FLASHING SHOWN ON DETAIL 6D SHEET A-7. EXERCISE CAUTION WHEN USING METAL DRIP EDGES AT ACCESSIBLE LOCATIONS DUE TO POSSIBLE SHARP METAL SEE:
http://www.mim-online.org/bulletins.html

SECTION VIEW

BASE DETAIL W/ VENEER BELOW GRADE

A-2
NOTES
1) CMU BELOW GRADE SHALL BE MEDIUM OR NORMAL WEIGHT.

2) IF A DRIP EDGE IS NOT DESIRED, THE FLASHING MEMBRANE SHALL MINIMALLY EXTEND TO THE OUTBOARD SURFACE OF THE EXTERIOR WALL FINISH. IF A METAL DRIP EDGE IS DESIRED, MODIFY THIS DETAIL TO BE SIMILAR TO THE 2-PIECE FLASHING SHOWN ON DETAIL 60 SHEET A-7. EXERCISE CAUTION WHEN USING METAL DRIP EDGES AT ACCESSIBLE LOCATIONS DUE TO POSSIBLE SHARP METAL. SEE:
http://www.mim-onlin.org/bulletin.html

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NOTE:
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

SHORT SPAN MASONRY LINTEL FOR RECEPTOR STYLE WINDOWS

NOTE: MASONRY LINTEL MAY BE PREFABRICATED OR FIELD ASSEMBLED

LADDER TYPE HORIZONTAL JOINT REINF @ 16" O.C. W/ADJUSTABLE VENEER TIES
8" CMU BACK-UP
1 1/4" x 1/8" CONT. TERMINATION BAR W/ SEALANT
LINTEL UNIT (W/ REINF. PER STRUCTURAL DESIGN) GRouted SOLID
SEALANT (BOTH SIDES) W/ BACKER ROD/BOND BREAKER
RECEPTOR FRAMING THERMALLY BROKEN ALUM. WINDOW FRAME

SECTION VIEW

1'-4" (NOM.)

2" (MIN. R-10) RIGID INSULATION
4" BRICK (CLAY) VENEER
FLEXIBLE MEMBRANE FLASHING W/ END DAMS
2x6 FIRE RETARDANT TREATED WOOD NAILER
DRAINAGE MESH
MINERAL WOOL TIGHT TO LINTEL
WEEPS
TWO-PIECE FLASHING (SEE DETAIL 60, SHEET A-7)

GALVANIZED STEEL ANGLE (LOOSE) LINTEL

Institute of Michigan
DETAILED SET WW&R.B.2 (2' HIGH PERFORMANCE CAVITY WALL)
NOTE:
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
NOTE:
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

SECTION VIEW

LADDER TYPE HORIZONTAL JOINT REINFORCED @ 1/4" O.C. W/ADJUSTABLE VENEER TIES
8" CMU BACK-UP
1 1/4" x 1/8" CONT. TERMINATION BAR W/ SEALANT
PRECAST CONCRETE LINTEL
SEALANT (BOTH SIDES) W/ BACKER ROD / BOND BREAKER
RECEPTOR FRAMING
THERMALLY BROKEN ALUM. WINDOW FRAME

SHORT SPAN PRE-CAST LINTEL FOR RECEPTOR STYLE WINDOWS

3C
A-1

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SHORT SPAN MASONRY LINTEL FOR STRAP STYLE WINDOWS

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NOTE:
UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INFLICT DAMAGE. SEE PCA "MASONRY TODAY" VOLUME II, NO. 1 FOR RECOMMENDATIONS.
www.cemani.org/masonry/cc_al_frames.asp

SECTION VIEW

LADDER TYPE HORIZONTAL JOINT REINFORCED @ 16" O.C.
WITH ADJUSTABLE VENEER TIES

2" (MIN. R-10) RIGID INSULATION

4" BRICK (CLAY) VENEER

FLEXIBLE MEMBRANE FLASHING W/ END DAMS

DRAINAGE MESH

MINERAL WOOL TIGHT TO LINTEL

WEEPS

TWO-PIECE FLASHING (SEE DETAIL 60, SHEET A-7)

GALVANIZED STEEL ANGLE ("LOOSE") LINTEL

SEALANT (BOTH SIDES) W/ BACKER ROD/BOND BREAKER

STEEL DOUBLE ANGLE (LOOSE) LINTEL

BREAK METAL (OR OTHER ARCH. TREATMENT)

STRAP ANCHOR

THERMALLY BROKEN ALUM. WINDOW FRAME

1'-4" (NOM.)

8" CMU BACK-UP

1 1/4" X 1/8" CONT. TERMINATION BAR W/ SEALANT

SHORT SPAN STEEL LINTEL FOR STRAP STYLE WINDOWS

ISOMETRIC VIEW

3E
A-1

A-4.5

In CHARGE: MWM
DRAWN: M.W.F.
APPROVED: T.A.S.
DATE: 11/04/2014
TITLE: SHORT SPAN STEEL LINTEL FOR STRAP STYLE WINDOWS

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NOTE:
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

ISOMETRIC VIEW

SECTION VIEW

SHORT SPAN PRE-CAST LINTEL FOR STRAP STYLE WINDOWS

3F
A-1
NOTE:
UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INFLICT DAMAGE. SEE PCA "MASONRY TODAY" VOLUME II, NO. 1 FOR RECOMMENDATIONS.
www.cement.org/masonry/cc_dl_frames.asp

SECTION VIEW

LADDER TYPE HORIZONTAL JOINT REINF. @ 16" O.C. W/ADJUSTABLE VENEER TIES
8" CMU BACK-UP
1 1/4" x 1/8" CONT. TERMINATION BAR W/ SEALANT
PRECAST CONCRETE LINTEL
SEALANT (BOTH SIDES) W/ BACKER ROD / BOND BREAKER
GROUT FILLED DOOR FRAME

1'-4" (Nom.)

4" BRICK (CLAY) VENEER
2" (MIN. R-10) RIGID INSULATION
FLEXIBLE MEMBRANE FLASHING W/ END DAMS
DRAINAGE MESH
MINERAL WOOL TIGHT TO LINTEL
WEEPS
TWO-PIECE FLASHING (SEE DETAIL 66, SHEET A-7)

GALVANIZED STEEL DOUBLE ANGLE (LOOSE) LINTEL

SHORTSPAN PRE-CAST LINTEL FOR DOOR OPENING

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NOTES:

1) FOR ADDITIONAL INFORMATION ON THE REINFORCED BRICK LINTEL DEPICTED IN THIS DETAIL, SEE DETAIL 98 ON SHEET A-10.

2) UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INCRU DAMAGE. SEE PC "MASS MASONRY TODAY" VOLUME II, NO. 1 FOR RECOMMENDATIONS. www.cement.org/masonry/cr_al_frames.asp
1) FOR ADDITIONAL INFORMATION ON THE
REINFORCED BRICK LINTEL DEPICTED IN THIS
DETAIL, SEE DETAIL 98 ON SHEET A-10.

2) UNPROTECTED ALUMINUM DOOR
AND WINDOW FRAMES CAN INTERACT WITH
CEMENT-BASED MATERIALS AND INCUR DAMAGE.
SEE PC "MASONRY TODAY" VOLUME II,
NO. 1 FOR RECOMMENDATIONS.
www.cement.org/masonry/cc_all_frames.asp

SECTION VIEW

ISOMETRIC VIEW

LONG SPAN MASONRY LINTEL FOR
OPENING WITH MULTIPLE PEDESTRIAN DOORS.

1 1/4" x 1/8" CONT.
TERMINATION BAR
W/ SEALANT

LADDER TYPE HORIZONTAL
JOINT REINF. @ 6" O.C.
W/ADJUSTABLE VENEER TIES

8" CMU BACK-UP

GROUT SOLID (IN ONE
LIFT) TOTAL NUMBER OF
COURSES REQUIRED PER
STRUCTURAL DESIGN (2
COURSES DEPICTED IN
THIS DETAIL)

LINTEL UNIT
(W/ REINF. PER
STRUCTURAL DESIGN)

SEALANT (BOTH SIDES)
W/ BACKER ROD
BOND BREAKER

GROUT FILLED DOOR
FRAME

4" BRICK (CLAY)
2" (MIN. R-10) RIGID
INSULATION

FLEXIBLE MEMBRANE
FLASHING W/ END DAMS
DRAINAGE MESH

STAINLESS STEEL
HORIZONTAL JOINT
REINFORCEMENT (PER
STRUCTURAL DESIGN)
(SEE DETAIL 98,
SHEET A-10)

MINERAL WOOL
TIGHT TO LINTEL

WEEPS

TWO-PIECE
FLASHING (SEE
DETAIL 60, SHEET A-7)

GALVANIZED STEEL
DOUBLE ANGLE
("LOOSE") LINTEL
NOTES:
1) FOR ADDITIONAL INFORMATION ON THE REINFORCED BRICK LINTEL DEPICTED IN THIS DETAIL, SEE DETAIL 98 ON SHEET A-10.
2) UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INCUR DAMAGE. SEE PC "MASONRY TODAY" VOLUME II, No. 1 FOR RECOMMENDATIONS.
www.cement.org/masonry/cc_all_frames.asp
OVERHEAD DOOR JAMB DETAIL

8" CMU BACK-UP

2" (MIN. R-10) RIGID INSULATION

4" BRICK (CLAY) VENEER

MINERAL WOOL INSULATION TO FIT

SEALANT

OVERHEAD DOOR

10" STEEL CHANNEL FRAME (CORROSION RESISTANT)

GROUT CORES SOLID

NOTES:

1) 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_el_frames.asp

2) BRICK TIES SHALL BE PRESENT WITHIN 12" OF JAMB ENDS

FLEXIBLE MEMBRANE-FLASHING (FULLY ADHERED)

SEALANT BEAD

METAL DRIP W/HEMMED EDGE

A-4, A-5, & A-6

TWO PIECE FLASHING DETAIL

6A

PEDESTRIAN DOOR JAMB DETAIL

8" CMU BACK-UP

2" (MIN. R-10) RIGID INSULATION

GROUT CORES SOLID

DOOR FRAME ANCHORS AS REQUIRED

SEALANT (BOTH SIDES)

GROUT FILLED DOOR FRAME

MINERAL WOOL INSULATION TO FIT

6B

WINDOW JAMB DETAIL

(USING RECEPTOR)

8" CMU BACK-UP

GROUT CORES SOLID

ANCHOR

MINERAL WOOL

SEALANT (BOTH SIDES) W/ BACKER ROD/BOND BREAKER

THERMALLY BROKEN ALUM. WINDOW FRAME

2x6 FIRE RETARDANT TREATED WOOD NAILER

RECEPTOR FRAMING (FOR STRAP ANCHOR STYLE SEE SHEET A4.1)
STONE/PRECAST SILL FOR RECEPTOR STYLE WINDOWS

1. CMU BEYOND THERMALLY BROKEN ALUM. WINDOW FRAME
2. B projection at 4" BRICK (CLAY) VENEER RETURN AT JAMB
3. CMU JOINT REINF. @ 16" O.C. W/ ADJUSTABLE VENEER TIES
4. 2X4 TREATED WOOD NAILER
5. STONE OR PRECAST WINDOW SILL
6. ANCHOR (IN HEAD JOINT)
7. FLEXIBLE MEMBRANE FLASHING WITH END DAMS
8. Drip in sill weeps
9. CONTINUOUS GALVANIZED ANGLE W/ PVC SHIM(S) ON BACK OF ANGLE
10. 2" (MIN. - R-10) RIGID INSULATION

GROUT CMU SOLID BENEATH STOOL
LADDER TYPE HORIZONTAL CMU JOINT REINF. @ 16" O.C. W/ ADJUSTABLE VENEER TIES
8" CMU BACK-UP
1"-4" (NOM.)

ISOMETRIC VIEW

SECTION VIEW

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JOINT SHALL BE COMPLETELY OPEN (FREE OF MORTAR DEBRIS, TIES, WIRE REINFORCEMENT, ETC.)

OPEN JOINT TO RECEIVE BACKER ROD & SEALANT (AT OUTBOARD SIDE)

4" BRICK (CLAY) VENEER

NOTES TO DESIGN PROFESSIONAL:
1) DETAIL "8A" WILL ACHIEVE UP TO A 4 HOUR FIRE RATING, DETAIL "8B" WILL ACHIEVE UP TO A 2 HOUR FIRE RATING.
2) IT IS USUALLY NOT NECESSARY TO INSTALL VERTICAL REBAR IN BOTH OF THE CELLS AdjACENT TO THE CONTROL JOINT. IT IS EVEN POSSIBLE THAT DOING SO CAN INTERFERE WITH THE FUNCTION OF THE CONTROL JOINT. HOWEVER, FOR WALLS RESISTING IN-PLANE SHEAR, SUCH REINFORCEMENT MAY BE REQUIRED DUE TO SEISMIC PRESCRIPTIVE REQUIREMENTS AND/OR STRUCTURAL LOADING.
3) THERE IS USUALLY NO NEED FOR BRICK EXPANSION JOINTS TO ALIGN DIRECTLY WITH CONTROL JOINT LOCATIONS IN THE CMU BACK-UP.

80 A-1
BRICK EXPANSION JOINT (EJ)

8A A-1
CMU BACK-UP CONTROL JOINT - "MICHIGAN TYPE"

8C A-1
MASONRY CONTROL JOINT @ CONTINUOUS BOND BEAM DETAIL (PER STRUCTURAL REQUIREMENTS)

8B A-1
CMU BACK-UP CONTROL JOINT - "GASKET TYPE"
WHEN A JOINT IS TO BE USED AT A SMALL OPENING, LOCATE AT ONE SIDE OF OPENING

LOCATE JOINTS AT BOTH EDGES OF LARGE OPENINGS FOR A ONE PIECE STEEL LINTEL

NOTE:
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.

HORIZONTAL SLIP PLANE FOR LOOSE LINTEL (SEE BIA TEK 18A FIGURE 6)

9A
TRADITIONAL JOINT PLACEMENT — ELEVATION VIEW

MAX EXPANSION JOINT SPACING
(TYPICALLY UP TO 18’ W/ 3/8” JOINTS, AND UP TO 24” W/ 1/2” JOINTS)

STAINLESS STEEL JOINT REINFORCEMENT (PER STRUCTURAL DESIGN)

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

9B
JOINT PLACEMENT W/ "REINFORCED VENEER LINTEL OPENINGS" — ELEVATION VIEW

NOTE:
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 AND TO ADD REINFORCEMENT ABOVE THE OPENINGS TO FUNCTION AS THE STRUCTURAL UNI T. DETAIL 9B ILLUSTRATES THE APPLICATION OF THIS APPROACH.

BRICK EXPANSION JOINT LOCATION DETAILS

IN CHARGE: MIM
DRAWN: M.W.F.
APPROVED: T.A.D.
DATE: 11/04/2014
TITLE: BRICK EXPANSION JOINT LOCATION DETAILS
SHEET: A-10

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ADDITIONAL "CONTROL LAYER" INFORMATION

1) AIR CONTROL LAYER:

A) THE AIR CONTROL LAYER IS OFTEN REFERED TO AS AN "AIR BARRIER". 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 THAN 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.

2) 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.
ISOMETRIC VIEW

SECTION VIEW

2" (MIN. R-10) RIGID INSULATION
1 1/4" x 1/8" CONT. TERMINATION BAR W/ SEALANT
LADDER TYPE HORIZONTAL JOINT REINF. @ 16" O.C. W/ ADJUSTABLE VENEER TIES
8" CMU BACK-UP
5/8" DIA. BRACKET ANCHOR

BRICK VENEER
DRAINAGE MATERIAL
28 G.A. MILL GALVANIZED METAL "L"-SHAPED FLASHING SUPPORT
FLEXIBLE MEMBRANE FLASHING
ANGLE SUPPORT BRACKET
WEEPS
GALVANIZED L4X4X1/4" STEEL LIMTEL
TWO-PIECE FLASHING (SEE DETAIL 60, SHEET A-7)
SEALANT
CLEAR SPACE UNDER ANGLE WITH COMPRRESSIVE FILLER

RIGID INSULATION BETWEEN BRACKETS, THICKNESS AS REQ'D. TO PROVIDE CONTINUOUS SUPPORT FOR MEMBRANE FLASHING. ALSO 2" MINIMUM RIGID INSULATION INSIDE EACH BRACKET (NOT SHOWN IN ISOMETRIC FOR CLARITY)

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