

POWER PLANT ETC.

THIS SECTION CONTAINS LAURENCO SYSTEMS & PRODUCTS SPECIFICATIONS & DETAILS FOR HEAVY INDUSTRIAL INSTALLATIONS WHICH INCLUDE: 2 AND 3 PLY MEMBRANE SYSTEMS.

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WATERPROOFING: For Power Plants (Critical Installation such as Nuclear Power Plants)

GENERALLY USED SPECIFICATIONS AND DETAILS:

The following pages contain our standard specifications and include details both standard and those especially pertaining to nuclear power plants.

CANTS, CURBS AND CHAMFERED AND ROUNDED CORNERS:

Cants and curbs do not appear in our details and specifications because of the ability of the Laurenco Waterproofing System to conform and adhere totally to the basic structure. **We neither require nor want** these cants or curbs which are necessary to other systems. The elimination of these cants and curbs represent a definite saving to the "Owners" of extra labor, materials, and supervision necessary for the installation of these two items.

Chamfered or rounded corners are **neither required nor wanted**. They would interfere adversely with our application of materials, and the adherence totally of our System to the substrate as it would make the application of the protection board called for (which is also applied in Laurenco Adhesive and not propped in place as in other systems). All angles are to be angles with definite corners. This too is a saving to the "Owners". (See following Specifications and Details).

Please note the Laurenco System becomes, after it is in place, one homogenous mass incorporating both elastic and plastic properties. This "in place" cure and bonding of Laurenco Adhesive and total adherence that makes possible the "hanging" of the protection board applied in Laurenco Adhesive on the verticals without immediate backfill.

We also wish to point out that use of cants, curbs, chamfered and rounded corners were not designed for the following nuclear power plant jobs:

Zion, Illinois-operational
Quad City, Illinois-operational
Dresden, Illinois-operational
W.F. Zimmer, Moscow, Ohio-operational
La Salle, Illinois-operational
Hope Creek, New Jersey-operational

We believe for horizontal work on total adherence to both foundation and finish slab through use of Laurenco Adhesive to bond the Laurenco Waterproofing Sheet to gain the greatest co-efficient of friction and tensile strength to the structure and waterproofing.

SUGGESTED MEMBRANE WATERPROOFING FOR FOUNDATION WORK AND VERTICAL WORK INCLUDING STANDARD DETAILS USUALLY ENCOUNTERED

- 1 **SCOPE SECTION:** This section of the Specification includes requirements for the following, as indicated on the drawings, as hereinafter specified (under the article numbers indicated), or, as required to properly complete the work.
 2. General
 3. Storage of Materials
 4. Membrane Waterproofing for Foundation Slabs
 5. Membrane Waterproofing for Foundation Walls
 6. Penetrations
 7. Inspection and Quality Control

- 2 **GENERAL SECTION**
 - 2.1 **Intent of Requirements for Membrane Waterproofing:**
 - 2.1.1 It is the intent of the requirements herein specified for membrane waterproofing that the completed work shall be **WATERTIGHT** against a probable static ground water pressure of 85 feet (approximately 37 psi).
 - 2.1.2 It is essential that all requirements and all details herein indicated be rigidly observed, and that all application methods and techniques to achieve the required end results of a **WATERTIGHT** job.
 - 2.1.3 Quality control (see Section 7) will be rigidly enforced by an Authorized Inspector, and any and all defective work shall be replaced to the satisfaction of the Authorized Inspector, Purchasers and the Consulting Engineers.
 - 2.2 **All membrane waterproofing materials** shall be as made and furnished by the LaurencO, Incorporated, P.O. Box 471 Garrettsville, OH 44231 (Phone: 800 321-3337), and all materials and installation shall conform to the requirements indicated on drawings and as hereinafter indicated for the specified LaurencO System of foundation waterproofing.
 - 2.3 **LaurencO System Specification:** The following specifications of LaurencO Incorporated and attached herewith form a part hereof:
 - 2.3.1 Specification V-1: for Foundation Walls Specification N-1: for Foundation Slabs
 - 2.3.2 Application and Storage Procedure
 - 2.4 **The following Standard Drawings (by Consulting Engineers),** attached herewith form a part hereof to show various details for proper application of the Specified LaurencO Membrane Waterproofing Systems:
 - 2.4.1 H-1-1: Membrane Waterproofing for Foundation Slabs-Typical Detail-Step 1-Application to Mud Slab
 - 2.4.2 H-2-1: Membrane Waterproofing for Foundation Slabs-Typical Detail-Step 2-Joining wall Membrane to Slab Membrane Where Slab Projects Beyond Wall

- 2.4.3 H-3-1: Membrane Waterproofing for Foundation Slabs-Typical Detail- Step 2A-
Joining Wall Membrane to Slab Membrane Where Slab Projects Beyond
Wall
- 2.4.4 H-4-1: Membrane Waterproofing for Foundation Slabs- Typical Detail at Electrical
Ground Bar Penetration
- 2.4.5 V-1: Membrane Waterproofing for Foundation Walls- Schematic Diagram
- 2.4.6 V-2: Membrane Waterproofing for Foundation Walls- Typical Cap Sheet
Application
- 2.4.7 V-3: Membrane Waterproofing for Foundation Walls- Bottom Internal Corner-
Type A
- 2.4.8 V-4: Membrane Waterproofing for Foundation Walls- Bottom Internal Corner-
Type B
- 2.4.9 V-5: Membrane Waterproofing for Foundation Walls- Internal Vertical Corner
- 2.4.10 V-6: Membrane Waterproofing for Foundation Walls- External Vertical Corner
- 2.4.11 V-7: Membrane Waterproofing for Foundation Walls- Internal Vertical Corner
Lapping Foundation Slab
- 2.4.12 V-8: Membrane Waterproofing for Foundation Walls- Corner Lapping Foundation
Slab
- 2.4.13 V-9: Membrane Waterproofing for Foundation Walls- Detail at Penetrations
- 2.5 **Summer and Winter Work:** Specific requirements for minimum ambient and surface
temperatures for winterr work, for all grades of adhesive, and for all seasons' application
techniques shall be as specified by Laurenco, Inc; subject to the requirements that membrane
waterproofing shall not be applied if ambient temperatures at below 32 F unless temporary
protection and temporary heat are provided.
- 2.6 **Contractor Qualifications:** Contractor shall be qualified and thoroughly experienced with
the Installation of Laurenco Systems and shall be as approved by the Consulting Engineers.
- 2.7 **Foreman Qualifications:**
 - 2.7.1 The foreman who supervises the installation at the site for the Contractor shall be
thoroughly experienced and qualified with the installation of Laurenco Systems.
 - 2.7.2 The same foreman as initially approved shall be used for the entire duration of the
work, unless otherwise requested by Purchaser's representative.
- 2.8 **Initial Supervision by Manufacturer:** Laurenco Incorporated shall furnish continuous
supervision at the site during the start of WORK to assure that the Contractor is installing the
specified Laurenco System in the correct manner and in complete accordance with all
requirements herein specified.

3 STORAGE OF MATERIALS

- 3.1 **General:**
 - 3.1.1 Storage of all materials for membrane waterproofing work shall be in strict accordance
with requirements hereinafter specified.
 - 3.1.2 Materials specified for the WORK are essentially all bituminous; some of these

materials can be damaged during storage. Membrane waterproofing sheets may be made unfit for use by temperatures in excess of 90 F, by lack of ventilation, or by excessive pressure caused by stacking materials too high. Any materials which have been fused shall be rejected. It is essential that all requirements herein specified for storage be fully and completely observed.

- 3.1.3 Care shall be exercised to first use material previously delivered by manufacturer so as to keep the storage stock fresh.
- 3.2 **Waterproofing Sheet:** Store in a dry indoor location with adequate ventilation. Store rolls flat and off the floor, preferably on a wood platform. Do not stack rolls more than 5 high.
- 3.3 **Protection Board:** Store in a dry indoor location with adequate ventilation. Store rolls flat and off the floor, preferably on a wood platform. If stored outdoors, provide tarpaulin cover on top and all sides over a wood framework to allow ventilation. Do not stack boards excessively high and do not stack one pallet or platform directly on top of board below.
- 3.4 **Drums and Pails:** May be stored outdoors or indoors, covered or uncovered. It is suggested that pails be stored indoors in a locked area to prevent the unauthorized removal from the site.
- 3.5 **Storage at Point of Use:**
 - 3.5.1 Store only as much material at point of use as required for each day's work.
 - 3.5.2 Store rolls of waterproofing sheet flat, off the ground on a level wood platform and keep covered with a tarpaulin cover at all times except when rolls are being removed.
 - 3.5.3 Store protection board flat, off the ground on a level wood platform and keep covered with a tarpaulin or white plastic cover at all times except when boards are being removed.

4 MEMBRANE WATERPROOFING FOR FOUNDATION SLABS

- 4.1 **General:** Conform to all applicable requirements of Laureco Systems Specification N-1, to all details indicated on the Standard Drawings for Membrane Waterproofing for Foundation Slabs (see Section 2), and to requirements hereinafter specified.
- 4.2 **Materials:**
 - 4.2.1 **Number of Plies:** 2 plies of Laureco Waterproofing Sheet. For adhesive quantities, see Paragraph 4.4.2.
 - 4.2.2 **Reinforcing Plies:** Also provide additional plies of waterproofing sheet at corners, penetration, etc., as indicated on Standard Drawings.
 - 4.2.3 **Termination Detail Materials:** 2 Plies Laureco Glass Fabric with total adhesive quantity of 2 gallons per 100 sq.ft. for each ply.
 - 4.2.4 **Protection Board:** Protection Board shall be as specified by Engineers.
- 4.3 **Surface Penetration:**
 - 4.3.1 A concrete mud slab will be provided for all areas where membrane waterproofing is indicated to be provided under foundation slabs.
 - 4.3.2 The surface of the mud slab, in areas to receive membrane waterproofing, will be

screened to a smooth, flush surface and shall be free of depressions and/or ridges.

- 4.3.3 All irregularities, if any, shall be removed and the mud slab surface patched to an acceptable surface with Portland cement concrete or grout prior to installation of the membrane.
- 4.3.4 General surface dirt and all other foreign materials shall be removed from mud slab surfaces so as to leave them in a generally clean condition suitable for application of the membrane.
- 4.3.5 The Authorized Inspector (see Section 7) will inspect each area of slab prior to Contractor's starting application of membrane in that area to determine that the surface is suitable for application of membrane. If the surface is not acceptable, the Authorized Inspector will advise Purchaser's representative accordingly so that proper remedial work can be performed by Purchaser and released, by the Authorized Inspector, for application of membrane.
- 4.3.6 Contractor shall, just prior to starting application of the waterproofing system, remove all surface dust and dirt that may have accumulated after the slab has been properly prepared and has received final approval for application of membrane.
- 4.3.7 Contractor shall in no case apply membrane over surfaces not released as suitable for application of membrane, and shall in all cases be responsible for seeing that this requirement is complied with in accordance with the foregoing requirements.

4.4 **Application:**

- 4.4.1 **General:** Apply in strict accordance with Laureco Specification N-1, in strict accordance with details indicated on Standard Drawings (see Paragraph 2.4), and in strict accordance with requirements hereinafter specified.

4.4.2 **Adhesive Quantities:**

4.4.2.1 **For 2 plies of Waterproofing Sheets Plus Protection Board:**

- 4.4.2.1.1 Prime coat on mud slab 1.5 to 2 gallons per 100 square feet
- 4.4.2.1.2 Coat over top of first ply of waterproofing sheet 1 gallon per 100 square feet
- 4.4.2.1.3 Coat over top of second ply of waterproofing sheet 1 to 2 gallons per 100 square feet
- 4.4.2.1.4 Total Adhesive for System 3.5 to 5 gallons per 100 square feet
- 4.4.2.1.5 If Protection board is used-add 2 gallons per 100 square feet

4.4.2.2 **For Reinforcement Plies of Waterproofing Sheet:** 1 Gallon per 100 square feet for **each** additional ply.

4.4.3 **Adhesive Application:**

- 4.4.3.1 Apply with squeegee or roller.
- 4.4.3.2 Apply adhesive at least 4" beyond edges and ends of every ply so that edges and ends will always be fully and continuously embedded in adhesive.

4.4.4 **Handling of Sheets and Boards Prior to installing:**

- 4.4.4.1 Cut all waterproofing sheets and protection board on a solid wood platform.
- 4.4.4.2 Inspect each sheet when it is being cut and remove all excessive graphite four

parting compound, especially along edges, so that each edge will adhere firmly and continuously when sheet is installed.

4.4.4.3 Keep sheets and boards free of dirt and contamination (do not permit to drag in soil) when moving sheets and boards from cutting platform to area of installation.

4.4.5 **Installing Waterproofing Sheets:**

4.4.5.1 Embed all sheets smoothly in the adhesive and firmly press in place to work out any wrinkles, bubbles, air pockets, etc. Make certain that all edges and ends are fully and continuously embedded in adhesive without any open gaps.

4.4.5.2 Carefully work all sheets into internal corners so that sheets will lay flat and tight into corners without bridging, sloping, beveling, etc. This is of critical importance to permit tight butting or 90 bends of protection board at internal corners, thus eliminating possible puncture of the membrane.

4.4.6 **Details for Laps, Corners, Termination and Penetrations:** As indicated on the Standard Drawings (see Section 2.4)

5 **Membrane Waterproofing for Foundation Walls:**

5.1 **General:** Conform to all applicable requirements of Laureco System Specification V-1, to all details indicated on the Standard Drawings for Membrane Waterproofing for Foundation Walls (see Section 2.4), and to the requirements hereinafter specified.

5.2 **Materials:**

5.2.1 **Number of Plies:** Provide the following number of plies of Laureco Waterproofing Sheet:

5.2.1.1 2 plies form the lowest level of each Class 1 foundation wall up to grade level or, as specified (for adhesive qualities see Paragraph 5.4.2).

5.2.1.2 Reinforcing Plies: Also provide additional plies of Waterproofing Sheet at corners penetrations, etc., as indicated on the Standard Drawings.

5.2.2 Termination Detail Materials: 2 plies Laureco Glass Fabric with total adhesive quantity of not less than 2 gallons per 100 square feet for each ply.

5.2.3 Protection Board: Provide the following thickness of Laureco protection board over all areas of membrane for foundation walls:

5.2.4 1/4" thick board over all membrane areas as shown on the drawings.

5.3 **Surface Preparation:**

5.3.1 Patch all honeycombs, all form tie holes (after removal of form tie cones), and all grossly irregular surfaces of concrete using Portland cement grout or concrete.

5.3.2 Remove concrete fins and projections, concrete splatter, general surface dirt and other foreign materials so as to leave wall surfaces in a generally clean condition suitable for application of Membrane.

5.3.3 The Authorized Inspector (see section 7) will inspect each area of wall prior to Contractor's starting application of Membrane in that area, to determine that the

surface is acceptable, the Authorized Inspector will advise Purchaser's representative accordingly so that proper remedial work can be performed by Purchasers and released by the Authorized Inspector for application of Membrane.

5.3.4 Contractor shall, just prior to starting application of the waterproofing system, remove all surface dust and dirt that may have accumulated after the wall has been properly prepared and has received final approval for application of Membrane.

5.3.5 Contractor shall in no case apply membrane over surfaces not released as suitable for application of Membrane, and shall in all cases be responsible for seeing that this requirement is complied with in accordance with all of the foregoing requirements.

5.4 **Application:**

5.4.1 **General:** Apply in strict accordance with Laureco Systems Specification V-1, in strict accordance with details indicated on the Standard Drawings (see Paragraph 2.4), and, in strict accordance with requirements hereinafter specified.

5.4.2 **Adhesive Quantities for 2-Ply System Plus Protection Board:**

5.4.2.1 Prime coat on concrete 1.5 gallons per 100 square feet

5.4.2.2 Coat over top of first ply 0.75 to 1 gallon per 100 square feet

5.4.2.3 Coat over top of second ply or, if Protection Board is used 1.5 to 2 gallons per 100 square feet.

5.4.2.4 Coat on contact surface of Protection Board 1 to 1.5 gallons per 100 square feet.

5.4.2.5 **For Additional Reinforcing Plies:** 1 gallon per 100 square feet per ply.

Quantity for total system Without Protection Board 4.5 gallons per 100 square feet

Quantity for total system With Protection Board 6 gallons per 100 square feet.

5.4.3 **Adhesive Application:**

5.4.3.1 Apply with squeegee or roller.

5.4.3.2 Apply adhesive at least 4" beyond edges and ends of every ply so that edges and ends will always be fully and continuously embedded in adhesive.

5.4.4 **Handling of Sheets and Boards Prior to Handling:**

5.4.4.1 Cut all waterproofing sheets and protection board on a solid wood platform. Keep platform free of dirt and foreign materials.

5.4.4.2 Inspect each sheet when it is being cut, and remove all excessive graphite flour parting compound, especially along edges, so that each will adhere firmly and continuously when sheet is installed.

5.4.4.3 Keep sheets and boards free of dirt and contamination (do not permit to drag in soil) when moving sheets and boards from cutting platform to area of installation.

5.4.5 **Hanging Waterproofing Sheets:**

5.4.5.1 Embed all sheets smoothly in adhesive and firmly press in place to work out any wrinkles, bubbles, air pockets, etc. Make certain that all edges and ends are fully and continuously embedded in adhesive without any open gaps.

5.4.5.2 Carefully work all sheets into internal corners so that sheets will lay flat and tight into corners without bridging, sloping, beveling, etc. This detail is of critical importance to permit tight butting of 90° bends of protection board at internal corners, thus eliminating possible puncture of the Membrane.

5.4.6 **Detail for Laps, Corners, Terminations and Penetrations**: as indicated on the Standard Drawings (see Section 2.4).

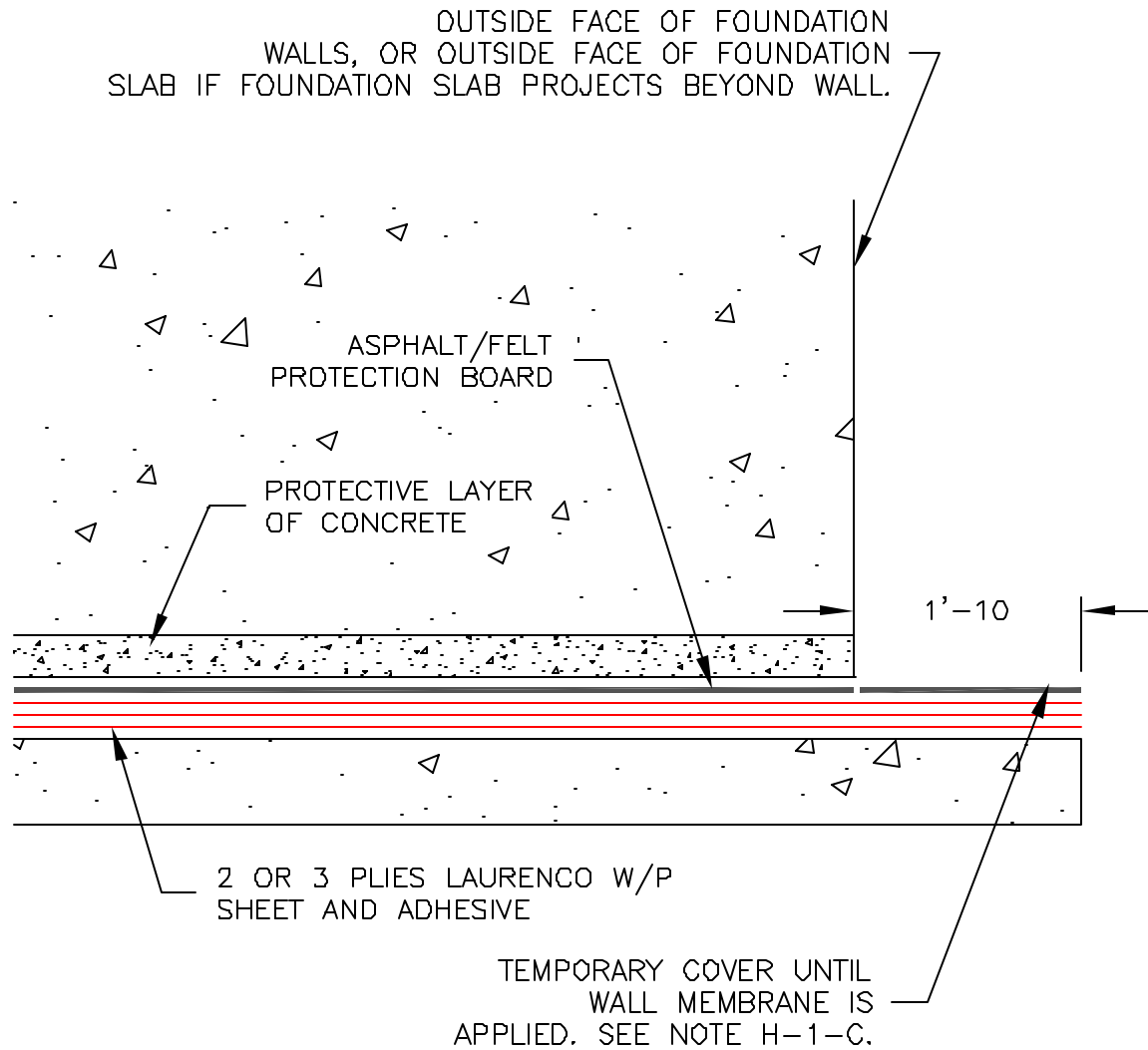
6 PENETRATIONS:

- 6.1 Membrane waterproofing details at penetration shall be as indicated on the Standard Drawings (see Section 2.4)
- 6.2 Where welding or brazing connections are to be made to penetrations on the membrane side of the penetration, the membrane shall not be installed until after the welding or brazing work has been completed.

7 INSPECTION:

- 7.1 Purchasers will retain the services of a Laureco Inspector as the Authorized Inspector for inspection of the work to insure proper quality control by rigidly enforcing the requirements hereinbefore specified for the work.
- 7.2 This Authorized Inspector will have authority to require that all faulty or unsatisfactory work be remedied to the complete satisfaction in accordance with all requirements of this Specification.
- 7.3 The Authorized Inspector will, together with the manufacturer's representative, furnish continuous supervision at the site during the start of the work to insure that all requirements for the work are clearly understood and strictly followed.
- 7.4 The Authorized Inspector will subsequently furnish intermittent inspection as required to insure complete adherence to all the requirements of the Specification.

END OF SPECIFICATION



NOTES:

H-1-A: SURFACE OF MUD SLAB TO RECEIVE MEMBRANE SHALL BE SCREEDED TO A REASONABLY SMOOTH, FLUSH SURFACE, FREE OF DEPRESSIONS OR RIDGES.

H-1-B: SEE PROJECT DRAWINGS FOR THICKNESS OF MUD SLAB & PROTECTIVE LAYER OF CONCRETE.

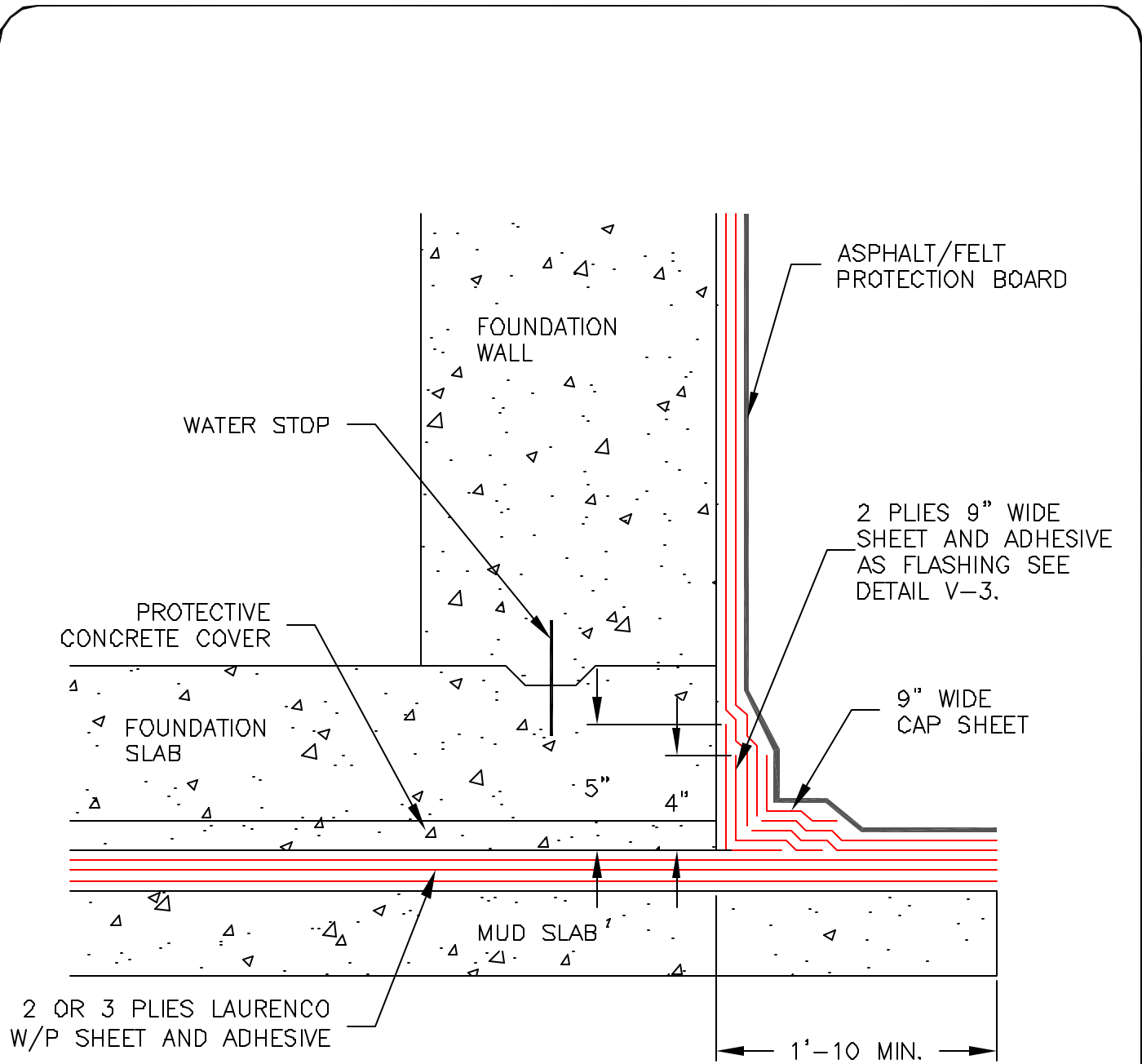
H-1-C: ON THE AREA WHERE THE TEMPORARY PROTECTION BOARD IS PLACE, DO NOT TOP COAT THE FINAL PLY OF WATERPROOFING SHEET. ALSO, PLACE A SHEET OF POLYETHYLENE FILM BETWEEN THE TOP PLY OF WATERPROOFING AND THE TEMPORARY PROTECTION BOARD AS A SLIP SHEET. THIS WILL ALLOW FOR THE PROTECTION BOARD TO BE REMOVED AND THE TIE-OFF FROM THE MUD SLAB WATERPROOFING SHEETS AND THE WALL WATERPROOFING SHEETS TO BE COMPLETED. REMOVE ALSO THE POLYETHYLENE SLIP SHEET.



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**APPLICATION TO MUD SLAB STEP 1, DETAIL H-1
WATERPROOFING FOUNDATION SLABS**



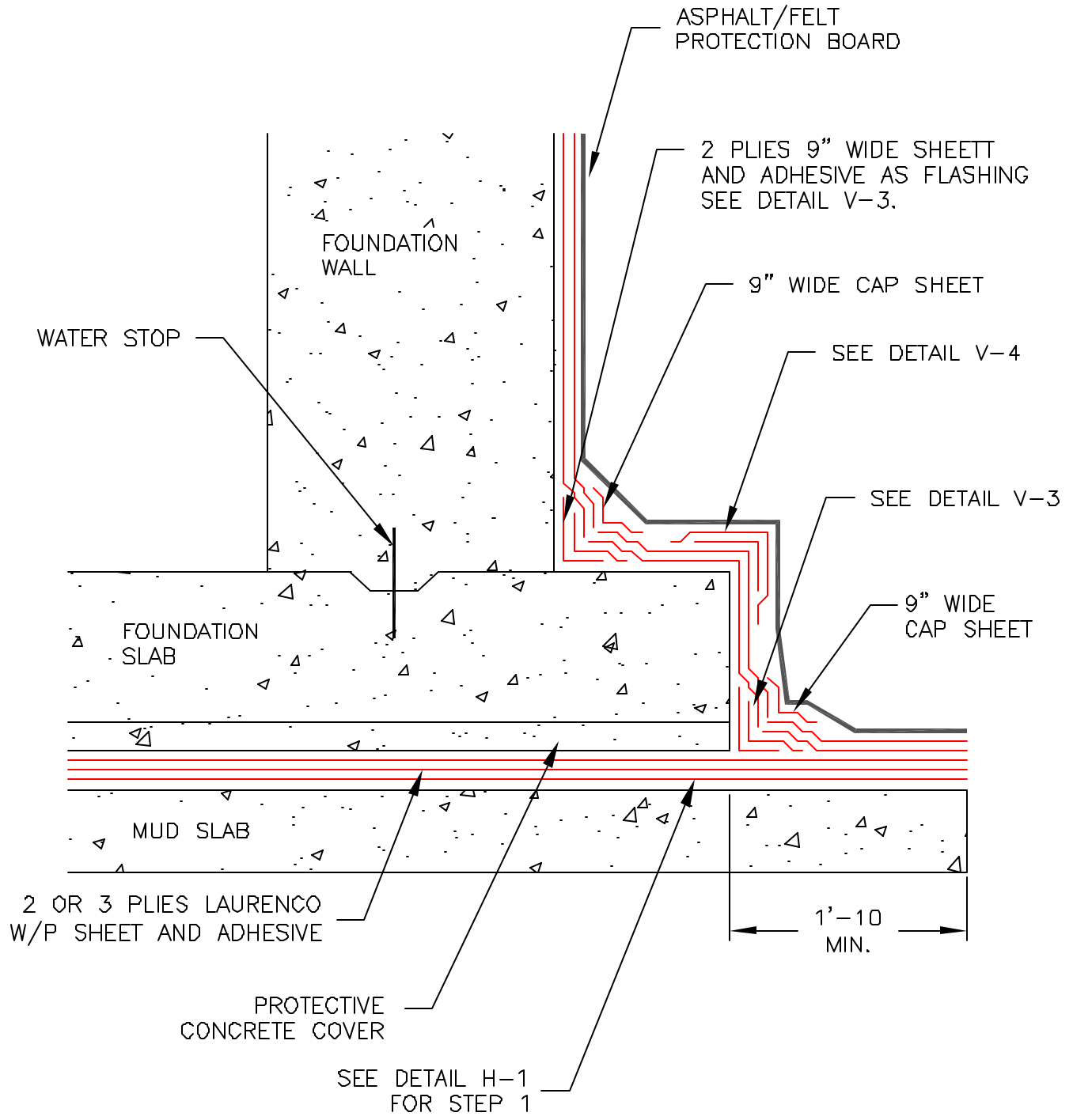
NOTE: SEE PROJECT SPECIFICATIONS FOR THICKNESS OF MUD SLAB AND PROTECTIVE LAYER OF CONCRETE.

JOINING WALL MEMBRANE TO SLAB MEMBRANE WITH NO SLAB PROJECTIONS

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Drawn by AutoCAD: H-2 by Dorothy M. Lawrence 04/25/74

APPLICATION TO MUD SLAB STEP 2 DETAIL H-2
WATERPROOFING FOUNDATION SLABS

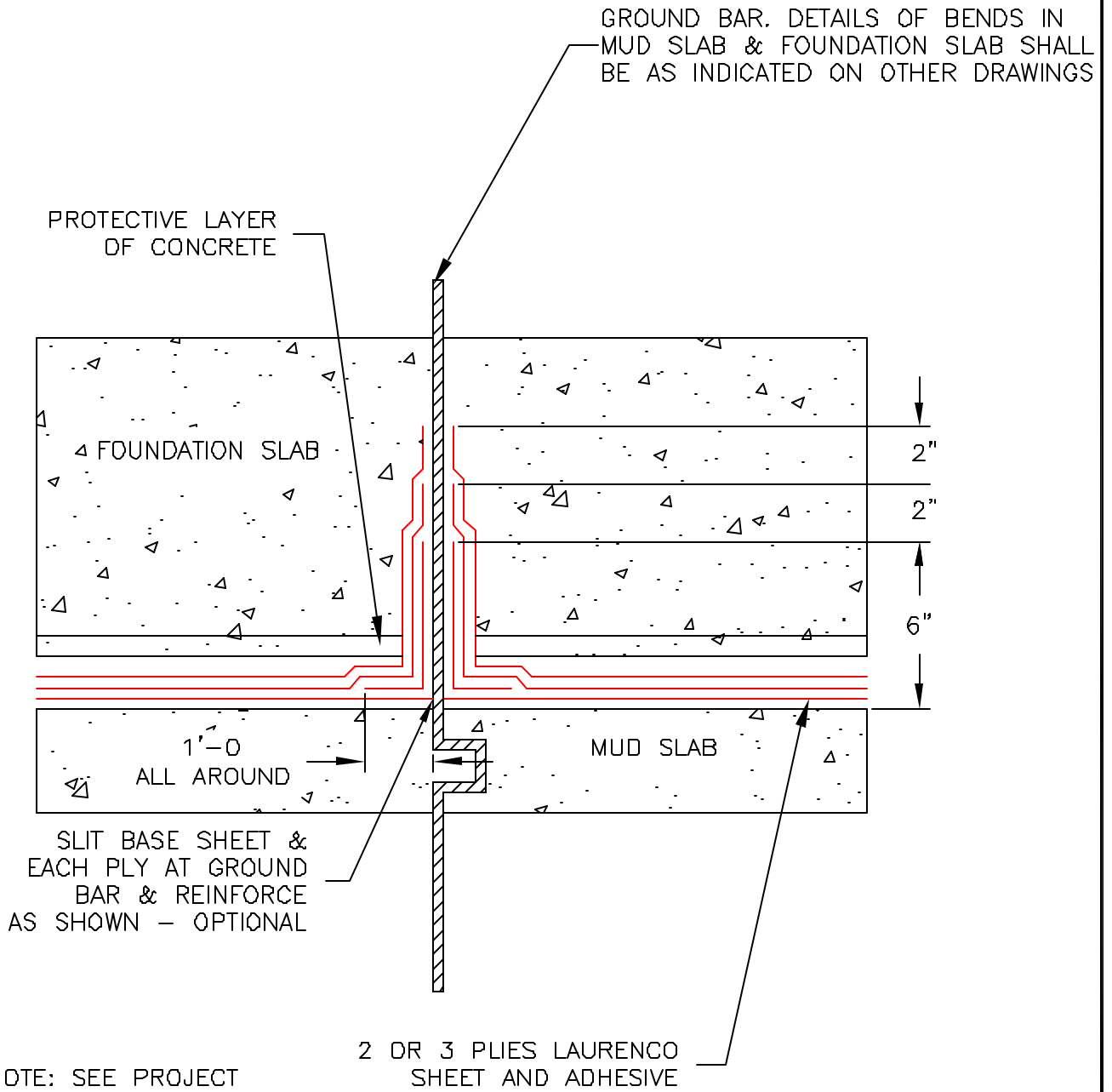


NOTE: SEE PROJECT SPECIFICATIONS FOR THICKNESS OF MUD SLAB & PROTECTIVE CONCRETE COVER.

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Drawn by AutoCAD: H-3 by Dorothy M. Lawrence 04/25/74

**APPLICATION TO MUD SLAB STEP 2A DETAIL H-3
WATERPROOFING FOUNDATION SLAB**



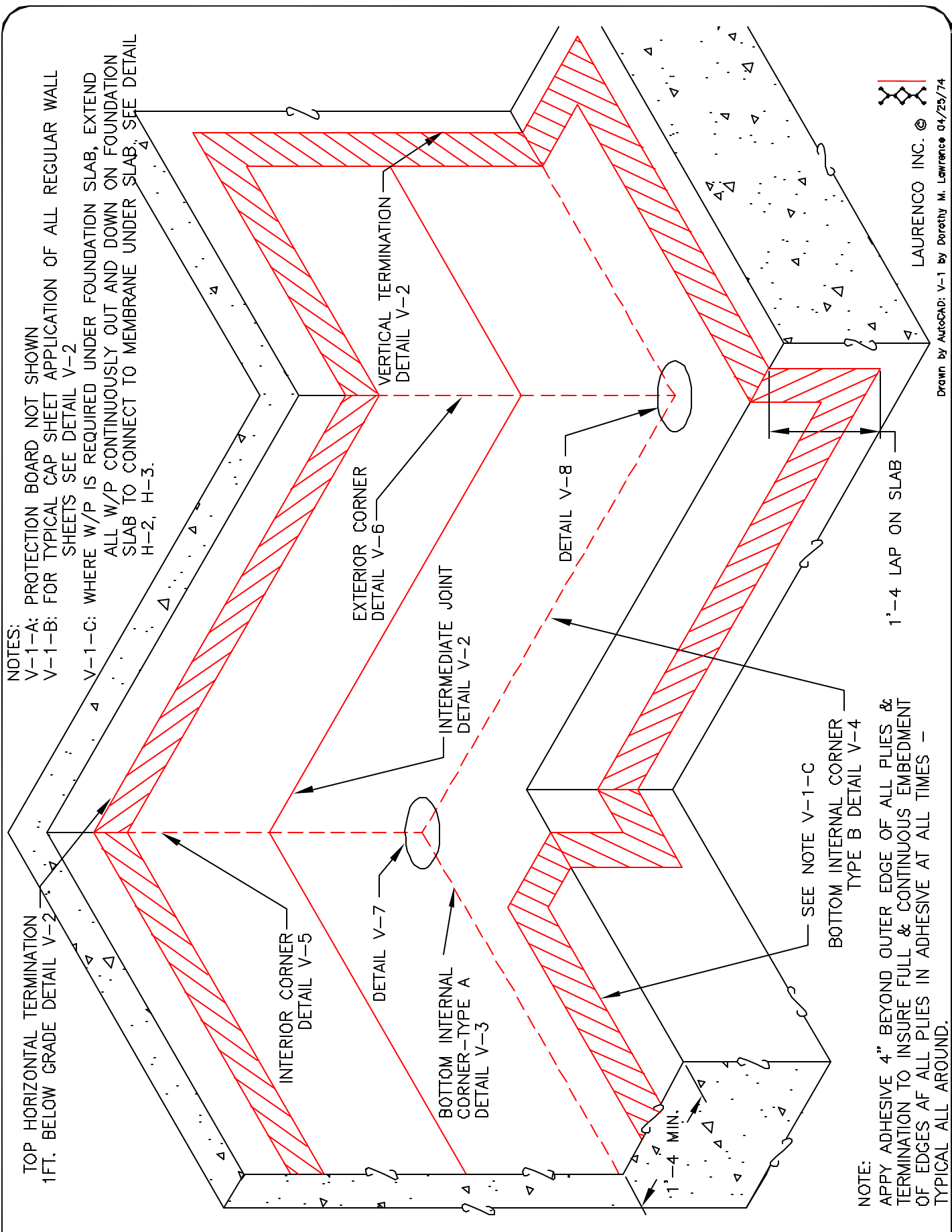
NOTE: SEE PROJECT SPECIFICATIONS FOR THICKNESS OF MUD SLAB & PROTECTIVE LAYER OF CONCRETE.



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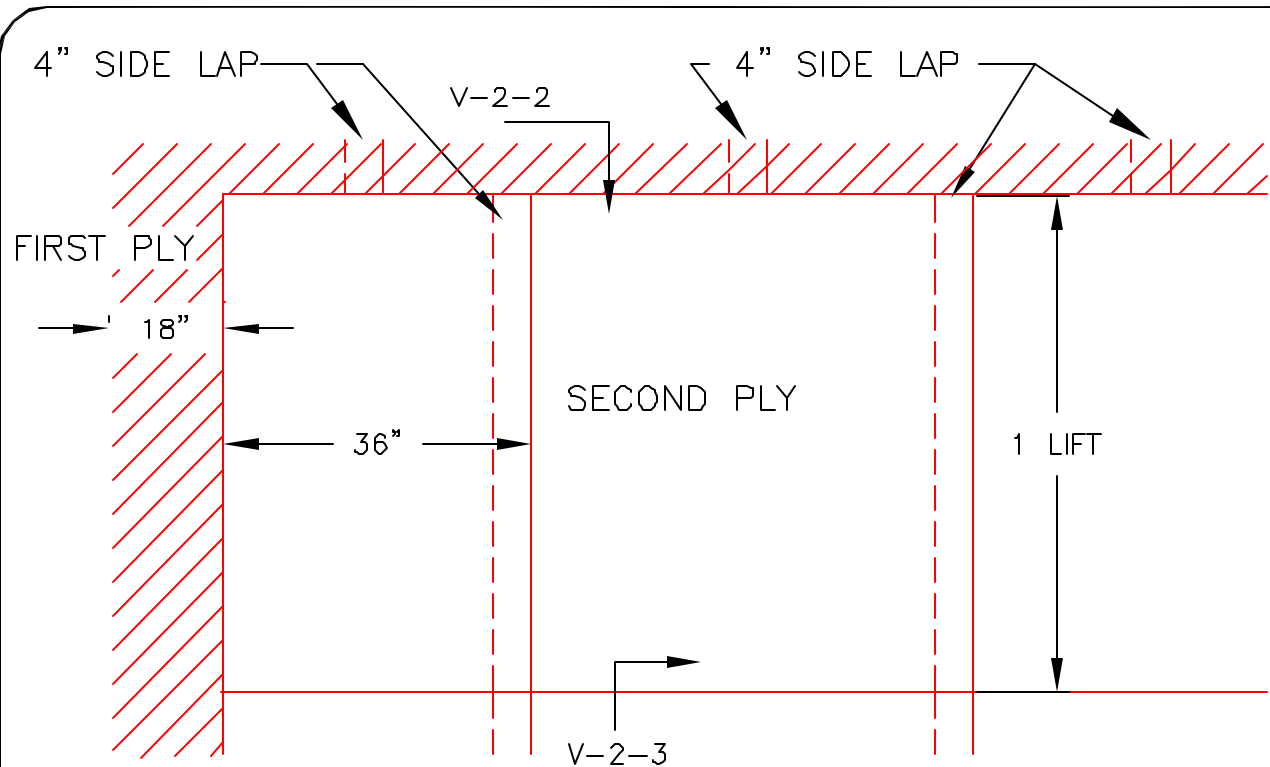
**GROUND BAR PENETRATION DETAIL H-4
WATERPROOFING FOUNDATION SLABS**



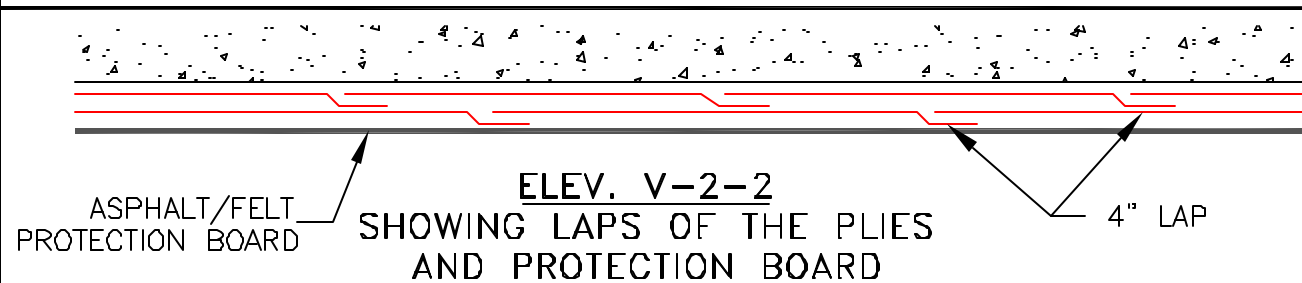
NOTES:
 V-1-A: PROTECTION BOARD NOT SHOWN
 V-1-B: FOR TYPICAL CAP SHEET APPLICATION OF ALL REGULAR WALL SHEETS SEE DETAIL V-2
 V-1-C: WHERE W/P IS REQUIRED UNDER FOUNDATION SLAB, EXTEND ALL W/P CONTINUOUSLY CUT AND DOWN ON FOUNDATION SLAB TO CONNECT TO MEMBRANE UNDER SLAB. SEE DETAIL H-2, H-3.

NOTE:
 APPLY ADHESIVE 4" BEYOND OUTER EDGE OF ALL PLYES & TERMINATION TO INSURE FULL & CONTINUOUS EMBEDMENT OF EDGES AF ALL PLYES IN ADHESIVE AT ALL TIMES - TYPICAL ALL AROUND.

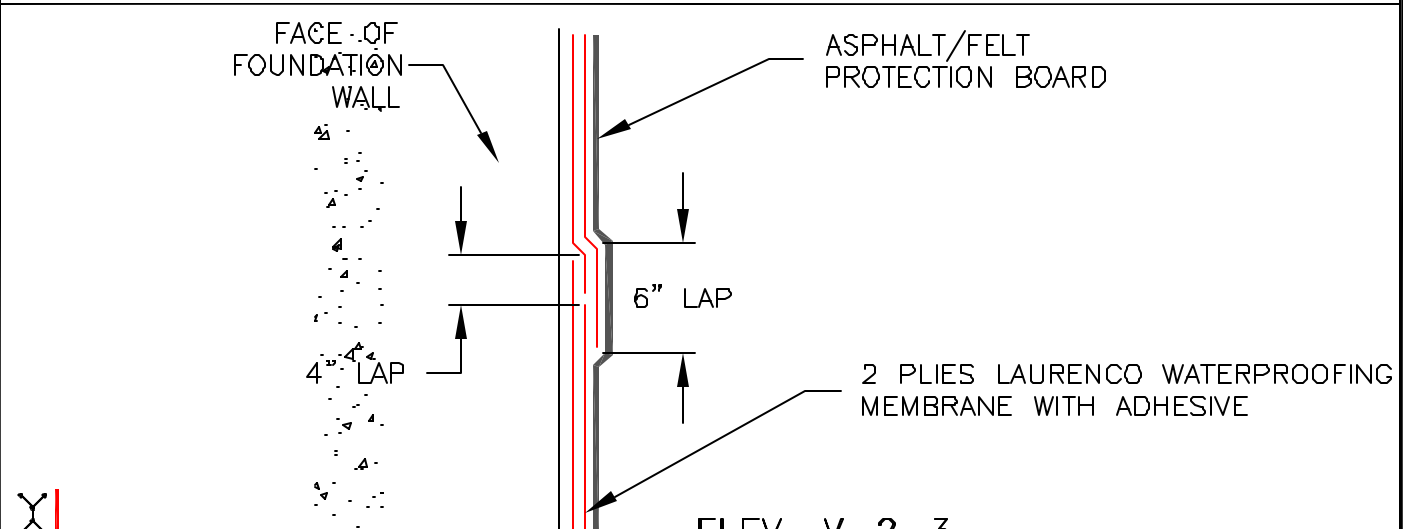
SCHEMATIC DIAGRAM - DETAIL V-1
WATERPROOFING-FOUNDATION WALLS



ELEV. V-2-1
HORIZONTAL PROTECTION
BOARD NOT SHOWN



ELEV. V-2-2
SHOWING LAPS OF THE PLYS
AND PROTECTION BOARD



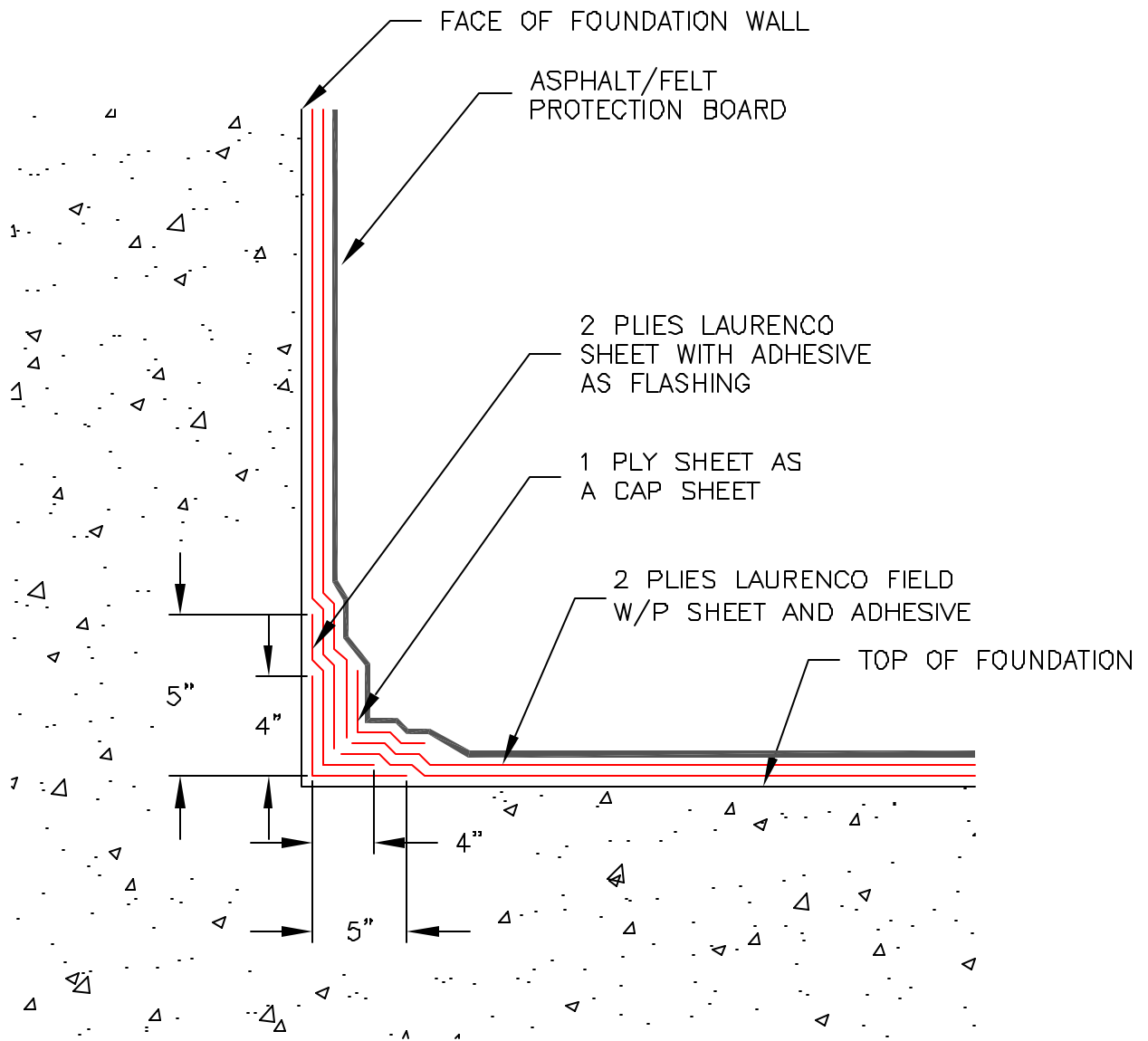
ELEV. V-2-3
TYPICAL INTERMEDIATE JOINT



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TYPICAL CAP APPLICATION DETAIL V-2
WATERPROOFING FOUNDATION WALLS



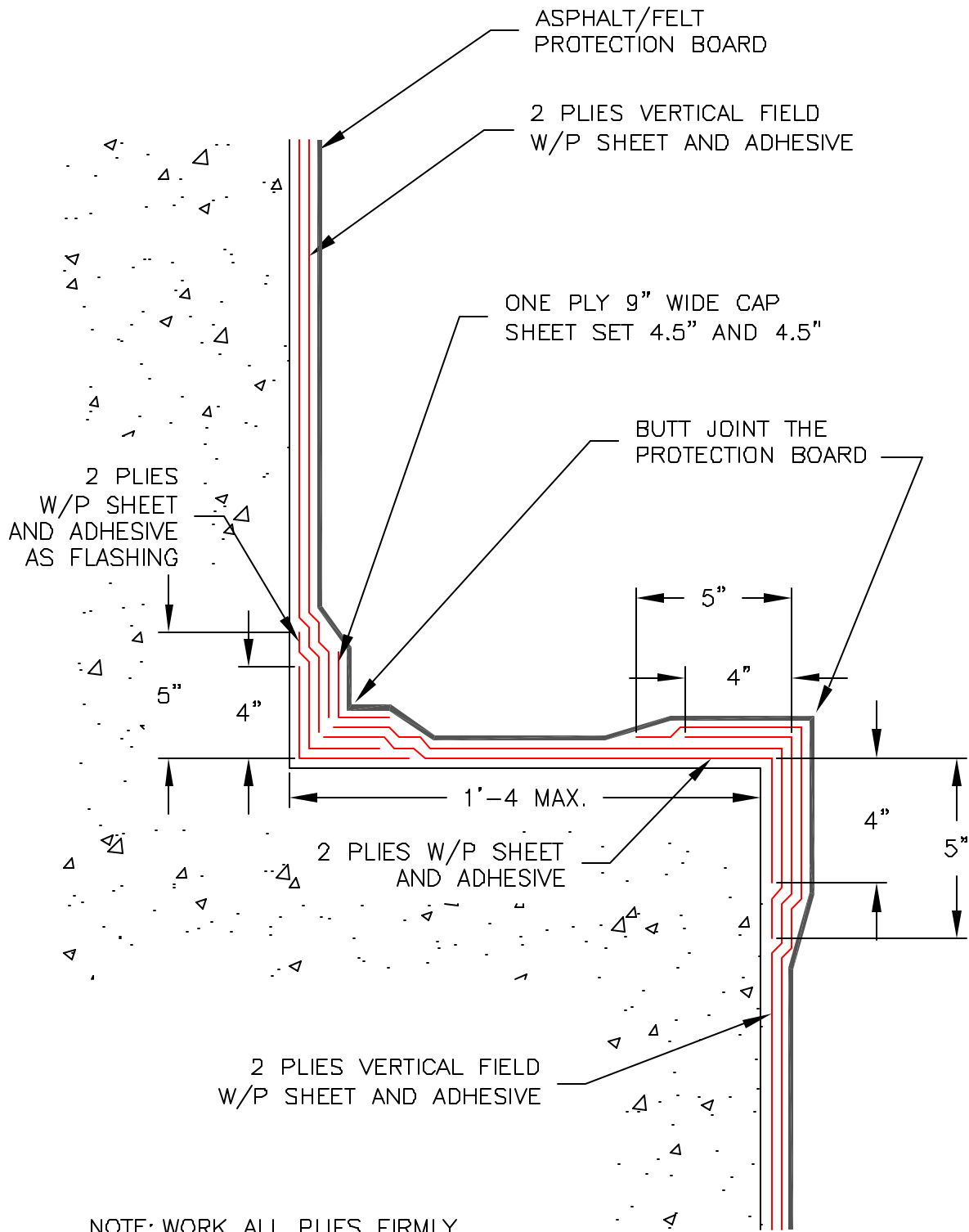
DETAIL V-3
FOR FOUNDATION THAT EXTEND 1'-4
MIN. BEYOND FACE OF FOUNDATION
WALL

NOTE: WORK ALL PLIES FIRMLY INTO CORNERS TO AVOID BRIDGING OR HOLLOW SPACE BEHIND PLIES.



Drawn by AutoCAD: V-3 by Dorothy M. Lawrence 04/25/74

BOTTOM INTERNAL CORNER TYPE A DETAIL V-3
WATERPROOFING FOUNDATION WALLS



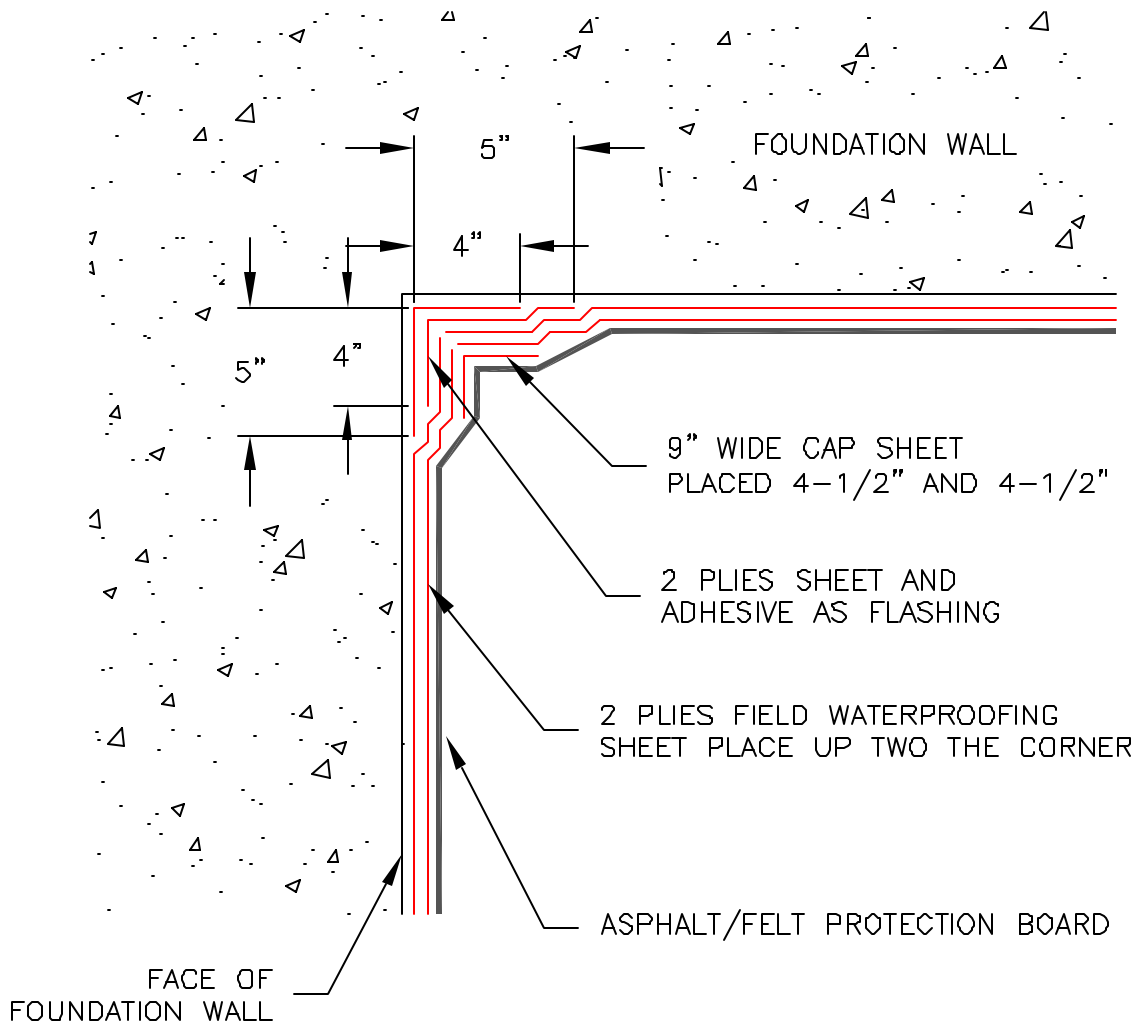
NOTE: WORK ALL PLYS FIRMLY INTO CORNER TO AVOID BRIDGING OR HOLLOW SPACE BEHIND PLYS.



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Drawn by AutoCAD: V-4 by Dorothy M. Lawrence 04/25/74

BOTTOM INTERNAL CORNER TYPE B DETAIL V-4 WATERPROOFING FOUNDATION WALLS



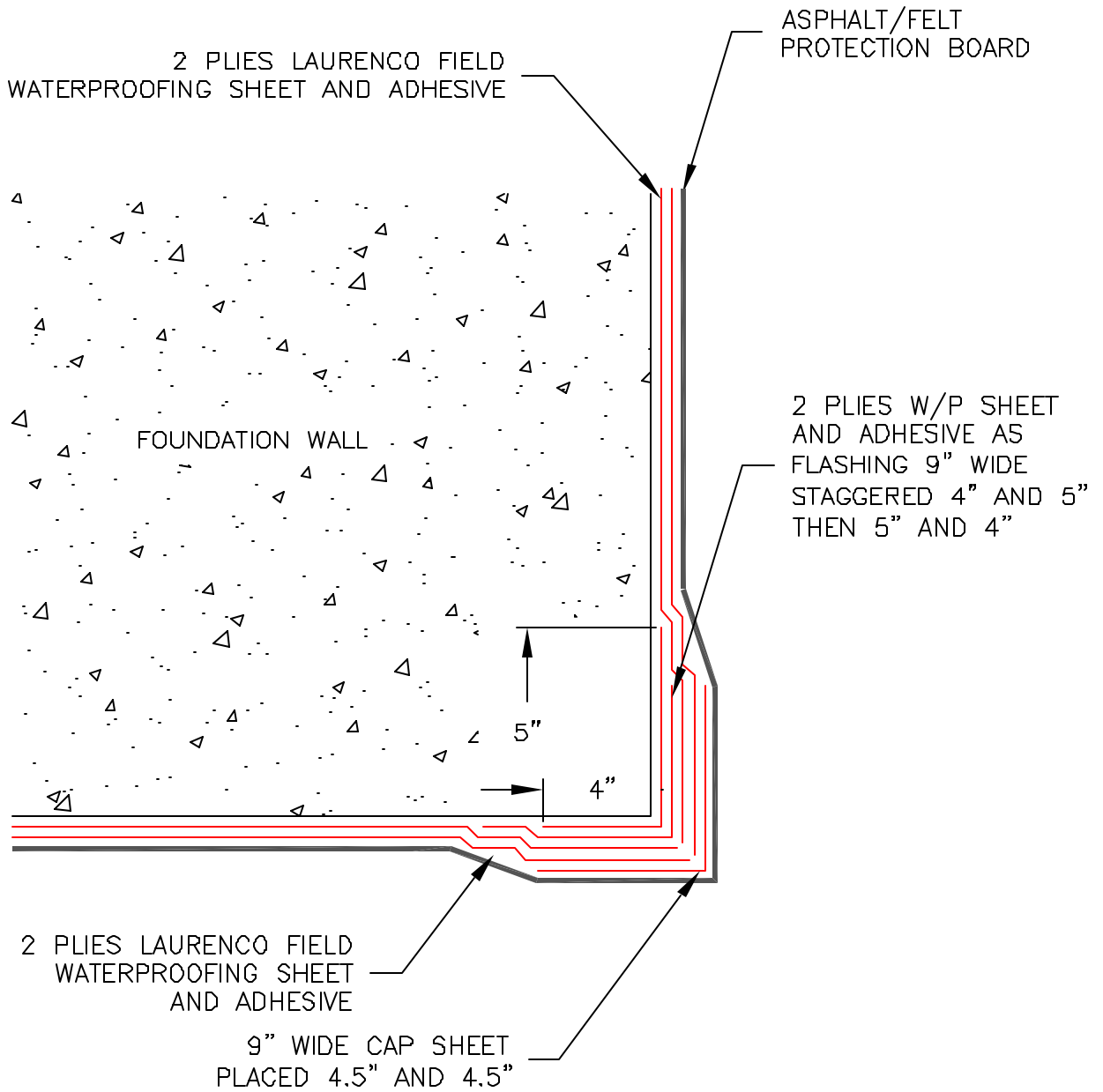
NOTE: WORK ALL PLYS FIRMLY INTO CORNERS TO AVOID BRIDGING OR HOLLOW SPACE BEHIND PLYS.



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Drawn by AutoCAD: V-5 by Dorothy M. Lawrence 04/25/74

INTERNAL VERTICAL CORNER V-5
WATERPROOFING FOUNDATION WALLS



NOTE: WORK ALL PLIES AROUND CORNERS FIRMLY TO PREVENT HOLLOW SPACES BEHIND PLIES.



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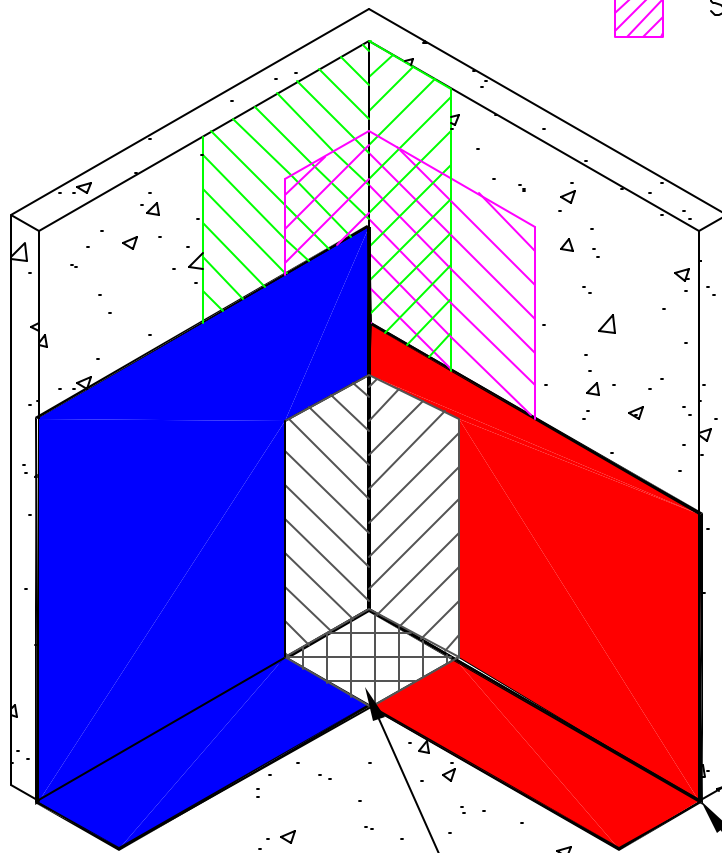
Drawn by AutoCAD: V-6 by Dorothy M. Lawrence 04/25/74

EXTERIOR VERTICAL CORNER DETAIL V-6 WATERPROOFING FOUNDATION WALLS

 FIRST PLY FLASHING

 SECOND PLY FLASHING

NOTE: All corner flashing sheets are to be installed to the height of design.



 THIRD PLY FIELD SHEET

 FOURTH PLY FIELD SHEET

 9" CAP FLASHING SEAL

SEE DETAIL V-3 FOR BOTTOM INTERNAL CORNER BRING THE V-3 FLASHING INTO THE VERTICAL CORNER

9" WIDE CAP FLASHING FOLDED IN HALF 4 1/2" AND 4 1/2" ALONG EACH SIDE. CUT THE HORIZONTAL PORTION IN HALF TO FIT THE CORNER. SEE FIGURE 7.1

CAP FLASHING

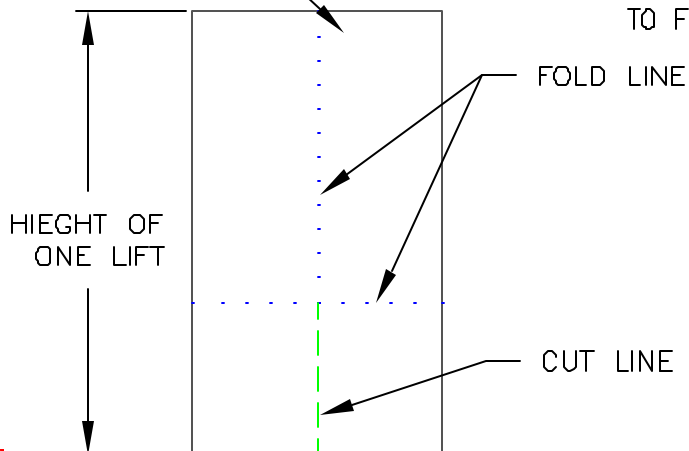


FIGURE 7.1

NOTE: WORK ALL PLIES FIRMLY INTO CORNERS TO AVOID BRIDGING OR HOLLOW SPACE BEHIND PLIES.



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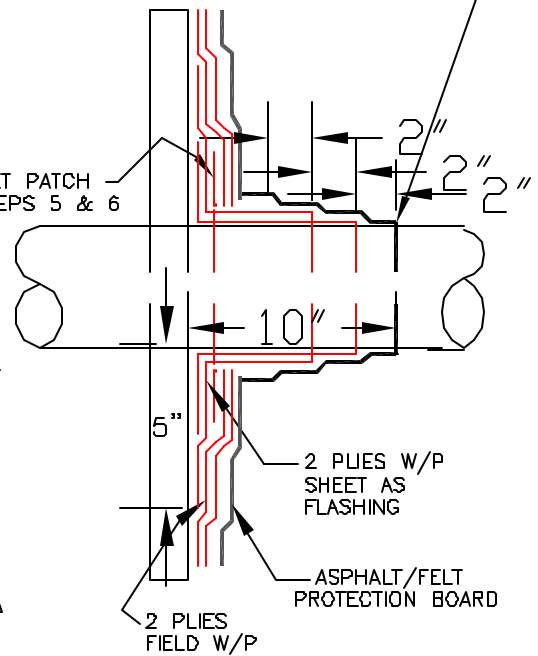
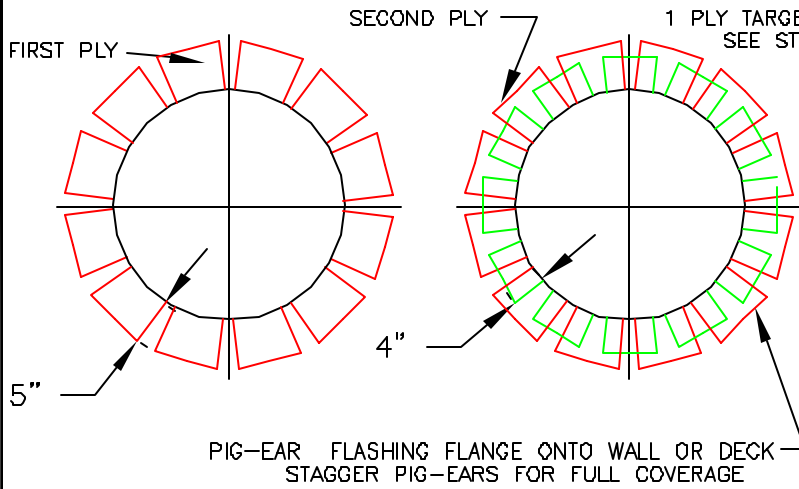
Drawn by AutoCAD: V-7 by Dorothy M. Lawrence 04/25/74

INTERIOR VERTICAL CORNER AT SLAB DETAIL V-7 WATERPROOFING FOUNDATION WALLS

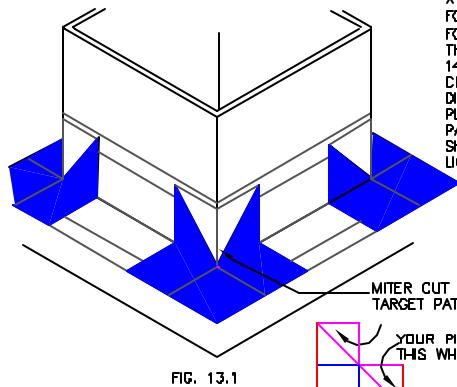
NOTE:

1. COMPLETE THE INSTALLATION OF THE FLASHINGS FIRST.
2. CUT ALL FIELD PLIES AND PROTECTION BOARD TO FIT TIGHTLY AROUND ENTIRE PERIMETER OF EACH PENETRATION.
3. PENETRATIONS SHOULD BE 6" APART OR MORE TO ACCOMMODATE A WORKERS HANDS TO PLACE THE COLLAR AND WRAP.

SPIRAL WRAP WITH 1/8" X 2" BUTYL SEALANT TAPE OR COAT WITH TROWEL GRADE ADHESIVE



APPLICATION OF TARGET PATCHES



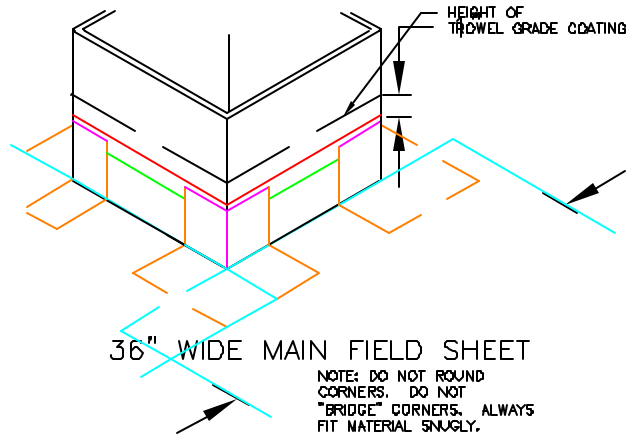
STEP 13: TAKE THE FOUR REMAINING 9" X 9" W/P SHEET CUTS AND FOLD INTO QUARTERS (BLUE FOLD LINES) AND CUT ALONG THE GREEN OUTLINE IN FIG. 14.2. THIS IS FROM THE CENTER OF THE SQUARE, DIAGONALLY TO A CORNER. PLACE THE MITER CUT TARGET PATCH INTO THE CORNER AS SHOWN IN FIG. 14.1. TOP COAT LIGHTLY WITH ADHESIVE.

FIG. 14.2

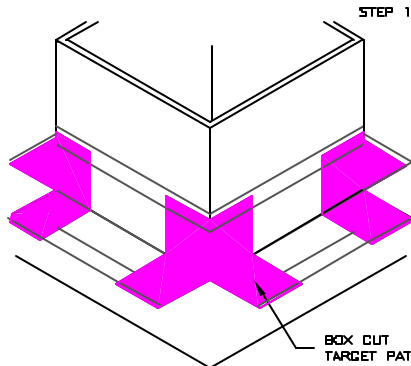
FIG. 13.1

YOUR PIECE SHOULD LOOK LIKE THIS WHEN COMPLETE.

STEP 15: PLACE THE MAIN FIELD WATERPROOFING SHEET(S) UP TO THE PENETRATION. MAKE SURE TO KEEP A MINIMUM OF 4" ON ALL LAPS. LIGHTLY TOP COAT THE FLASHING AREA.



NOTE: DO NOT ROUND CORNERS. DO NOT "BRIDGE" CORNERS. ALWAYS FIT MATERIAL SNUGLY.



STEP 14: CUT 8 9" X 9" PIECES OF W/P SHEET TWO FOR EACH CORNER. TAKE FOUR OF THE PIECES AND FOLD IN EVEN QUARTERS (BLUE FOLD LINES) AND CUT ALONG THE GREEN CUT LINE IN FIG. 13.2. THIS WILL MAKE THE A BOX CUT TARGET PATCH. PLACE IT ONTO EACH CORNER. PRESS IN FIRMLY AND TOP COAT LIGHTLY WITH ADHESIVE.

FIG. 13.2

FIG. 14.1



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NOT TO SCALE

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**PENETRATIONS DETAIL V-9
WATERPROOFING FOUNDATION WALLS**