

# KEY RESIN COMPANY STANDARD FLOORING DESIGN DETAILS GUIDE

*Click to link  
directly to the  
design detail  
of your choice.*

VAPOR BARRIER FOR SLAB ON GRADE	KEY-DTL-1	PRECAST EPOXY TERRAZZO COVE BASE	KEY-DTL-19
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FILE #:  
**KEY RESIN FLOORING DETAIL DWGS**

# KEY RESIN COMPANY STANDARD FLOORING DESIGN DETAILS GUIDE

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COVE BASE ON STAINLESS STEEL	KEY-DTL-38	KEY MORTAR STD (1/4")	KEY-DTL-56
TYPICAL MRI SUITE FLOORING DETAIL	KEY-DTL-39	KEY CHIP-100	KEY-DTL-57
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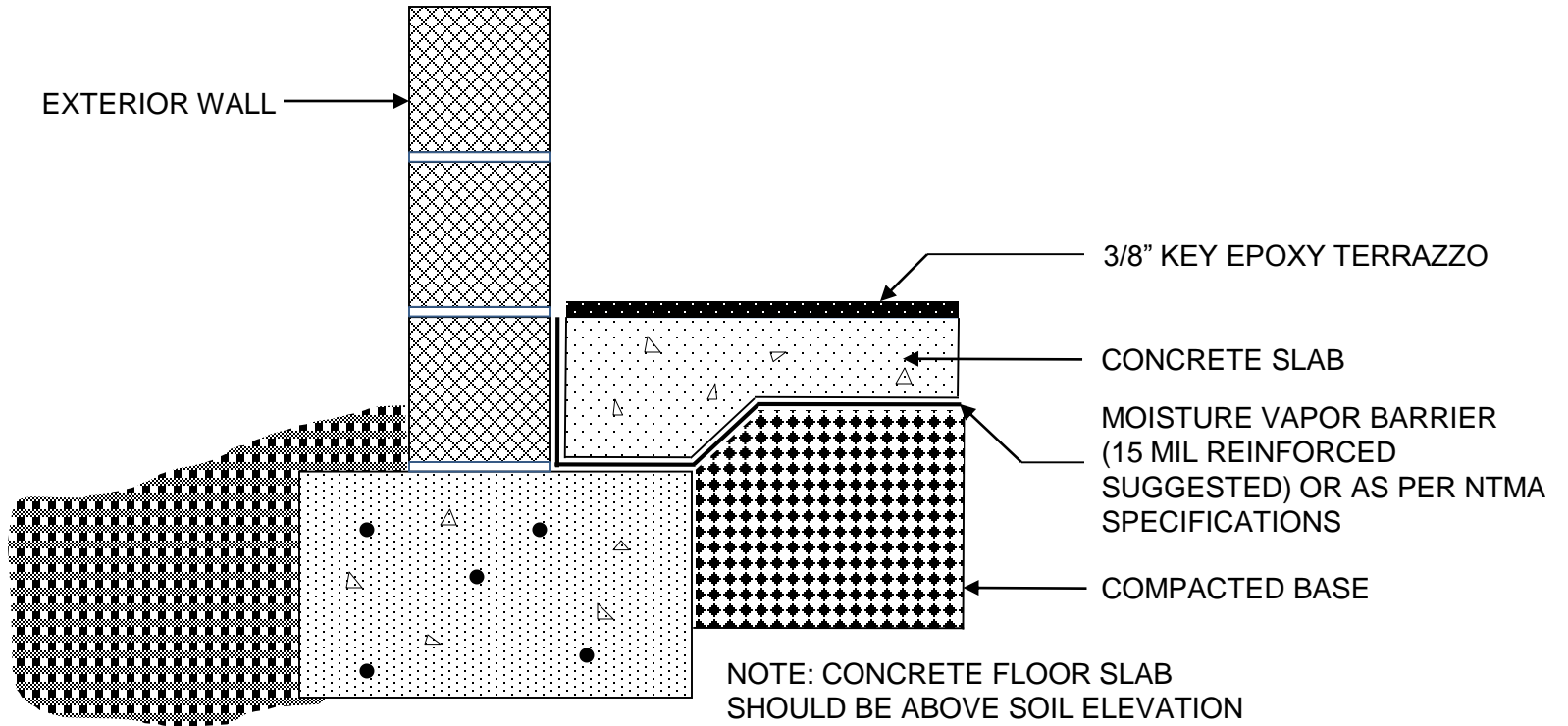
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FILE #:  
**KEY RESIN FLOORING DETAIL DWGS**

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NOTE:  
DO NOT PLACE 2" OF SAND  
OVER VAPOR BARRIER  
REFERENCE ACI-302.IR-04



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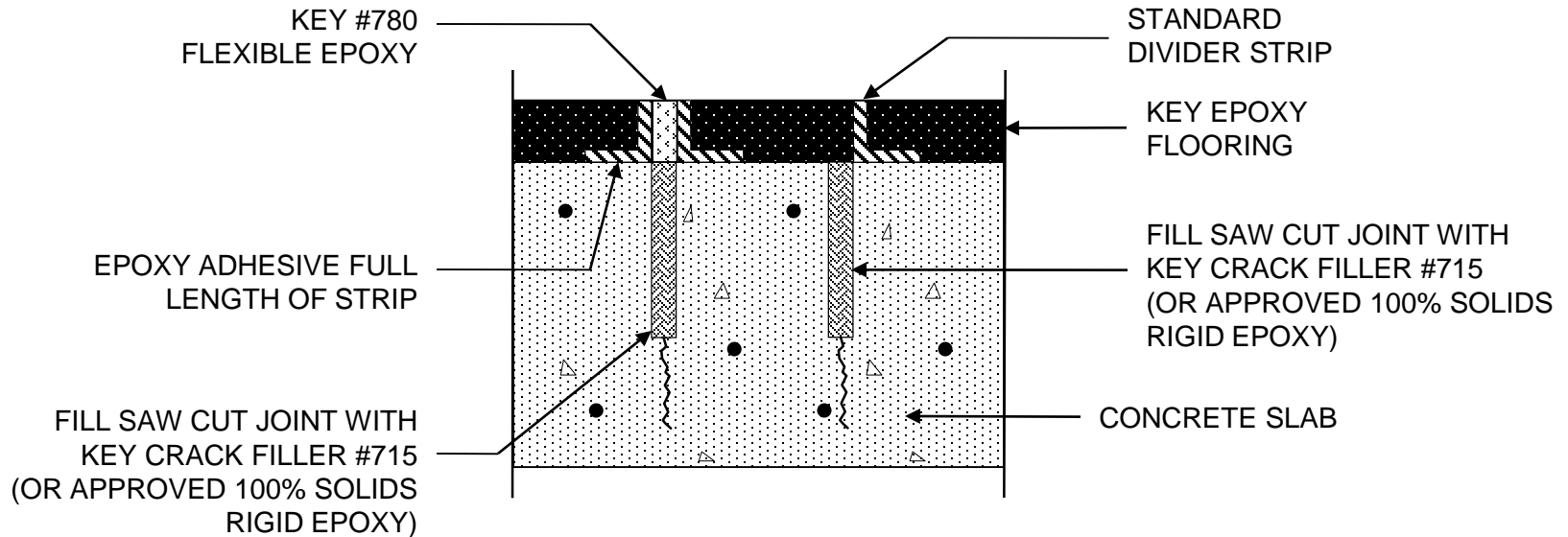
DETAIL: **VAPOR BARRIER FOR SLAB ON GRADE**

FILE #: **KEY-DTL-1**

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# CONTRACTION/ CONTROL JOINT

PREFERRED   ALTERNATE



NOTE 1: THIS DETAIL MUST BE USED FOR RADIANT HEATED FLOORS.

OPTION: FOR "ART WORK AREAS," SEE BURIED CONTRACTION JOINT DETAIL. REFER TO DETAIL # KEY-DTL-5



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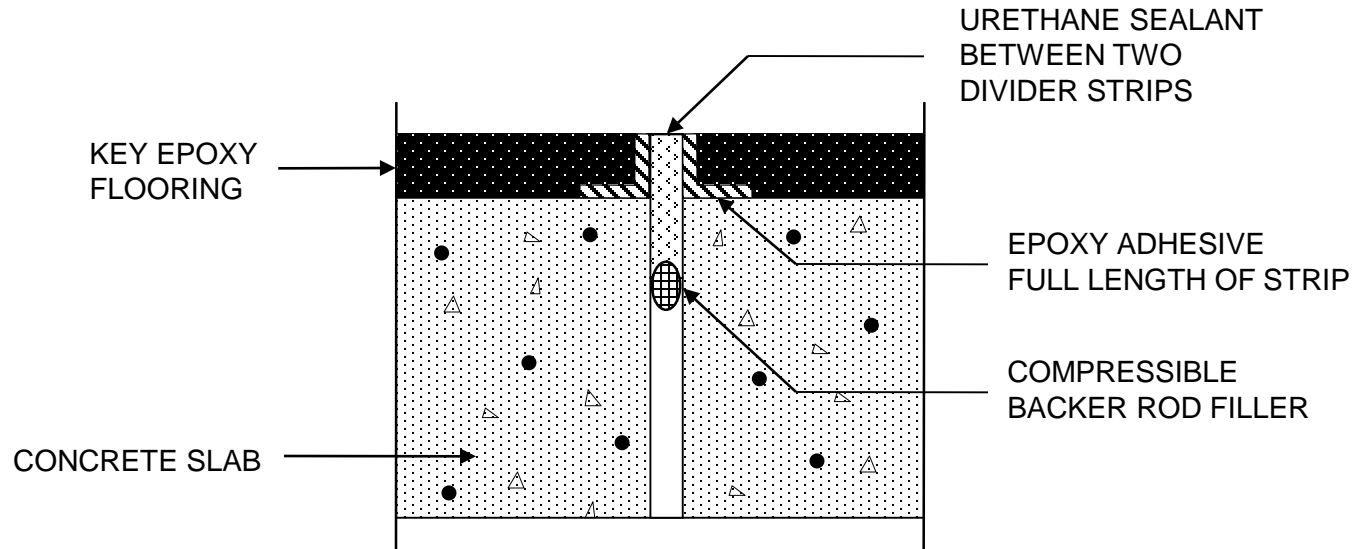
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DETAIL:  
**JOINT DETAILS**

FILE #:  
**KEY-DTL-2**

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## EXPANSION / ISOLATION JOINT



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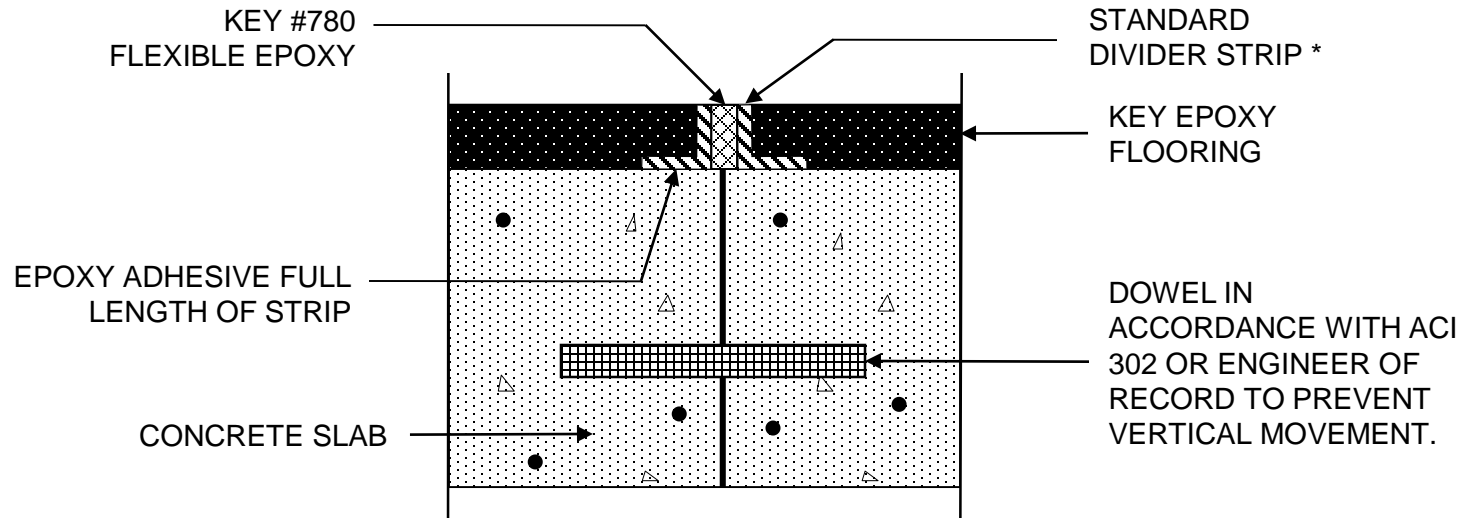
DATE:  
01/04/10

DETAIL:  
**JOINT DETAILS**

FILE #:  
**KEY-DTL-3**

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## CONSTRUCTION / COLD JOINT (Next Day Pour Where Joint Has Eased Shoulders or Has Opened)



\* IF CONSTRUCTION/COLD JOINT HAS NOT OPENED, STRIPS MAY BE SET BACK TO BACK



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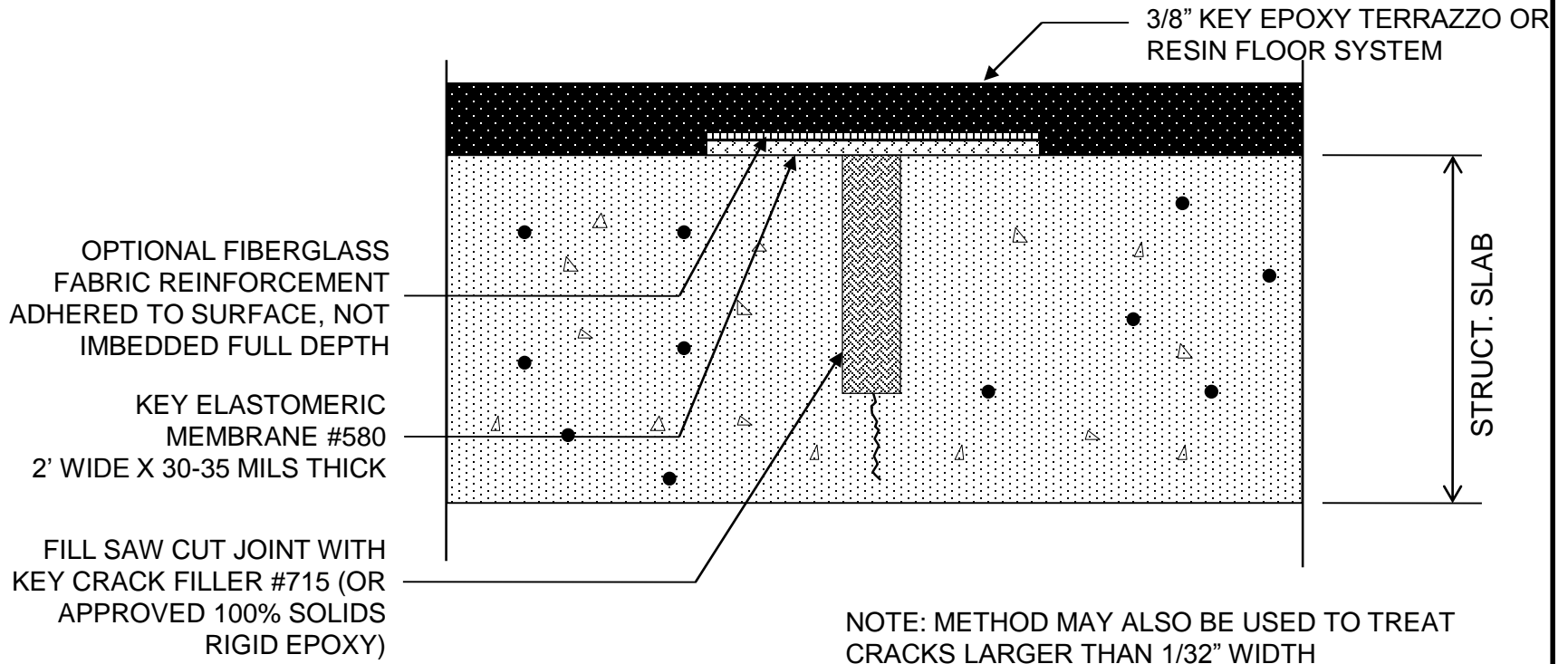
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DATE:  
01/04/10

DETAIL:  
JOINT DETAILS

FILE #:  
KEY-DTL-4

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TREATMENT OF CONTRACTION JOINTS (SAWCUTS) AND CRACKS IS DONE IN ANTICIPATION OF HORIZONTAL MOVEMENT

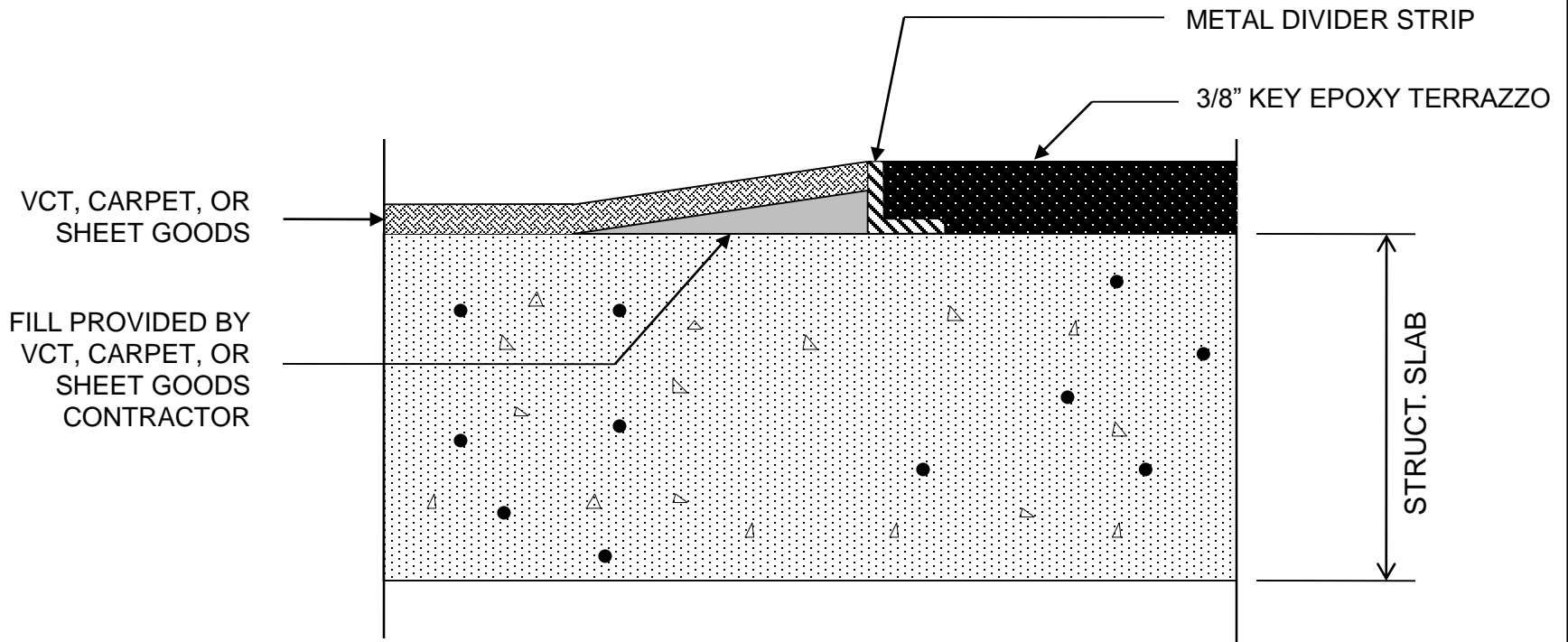


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DETAIL: BURIED CONTROL JOINT/CRACK TREATMENT  
FILE #: KEY-DTL-5

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NOTE: EPOXY TERRAZZO TO BE POURED FIRST.  
OTHER TRADES TO FINISH AT PROPER ELEVATION



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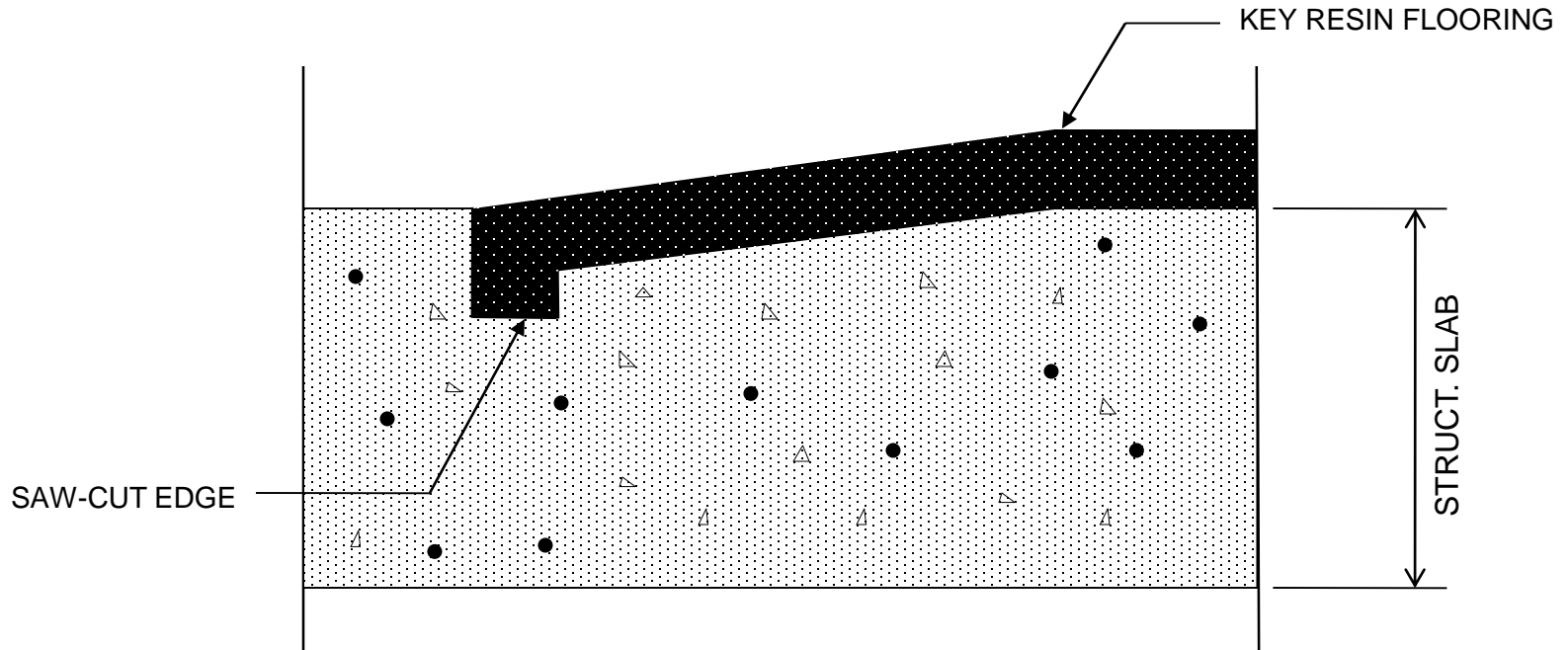
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DETAIL:  
EPOXY TERRAZZO, CARPET TERMINATION

FILE #:  
KEY-DTL-6



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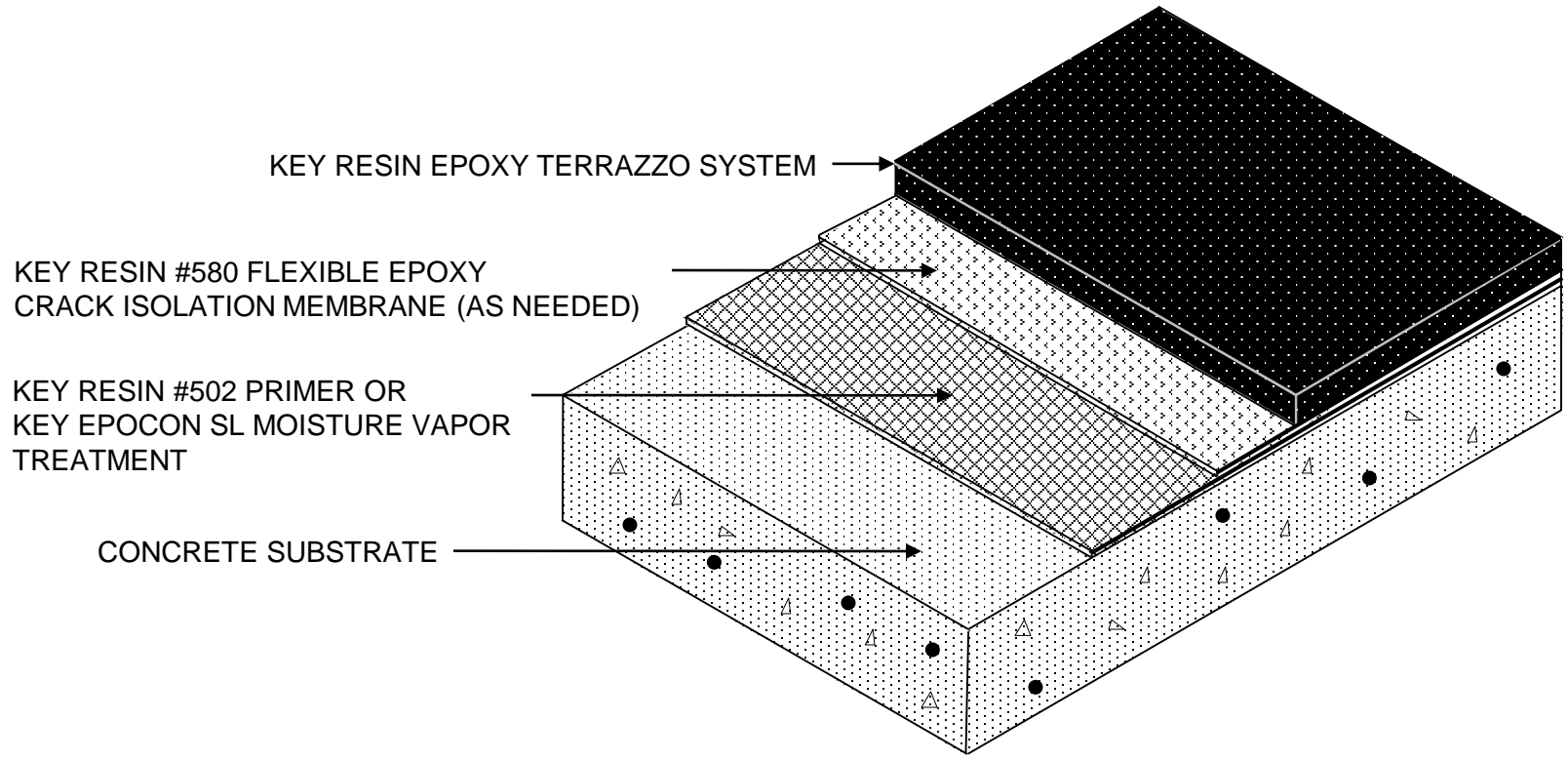
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DATE:  
**2/24/08**

DETAIL:  
**EPOXY FLOORING KEY-IN TERMINATION**

FILE #:  
**KEY-DTL-7**

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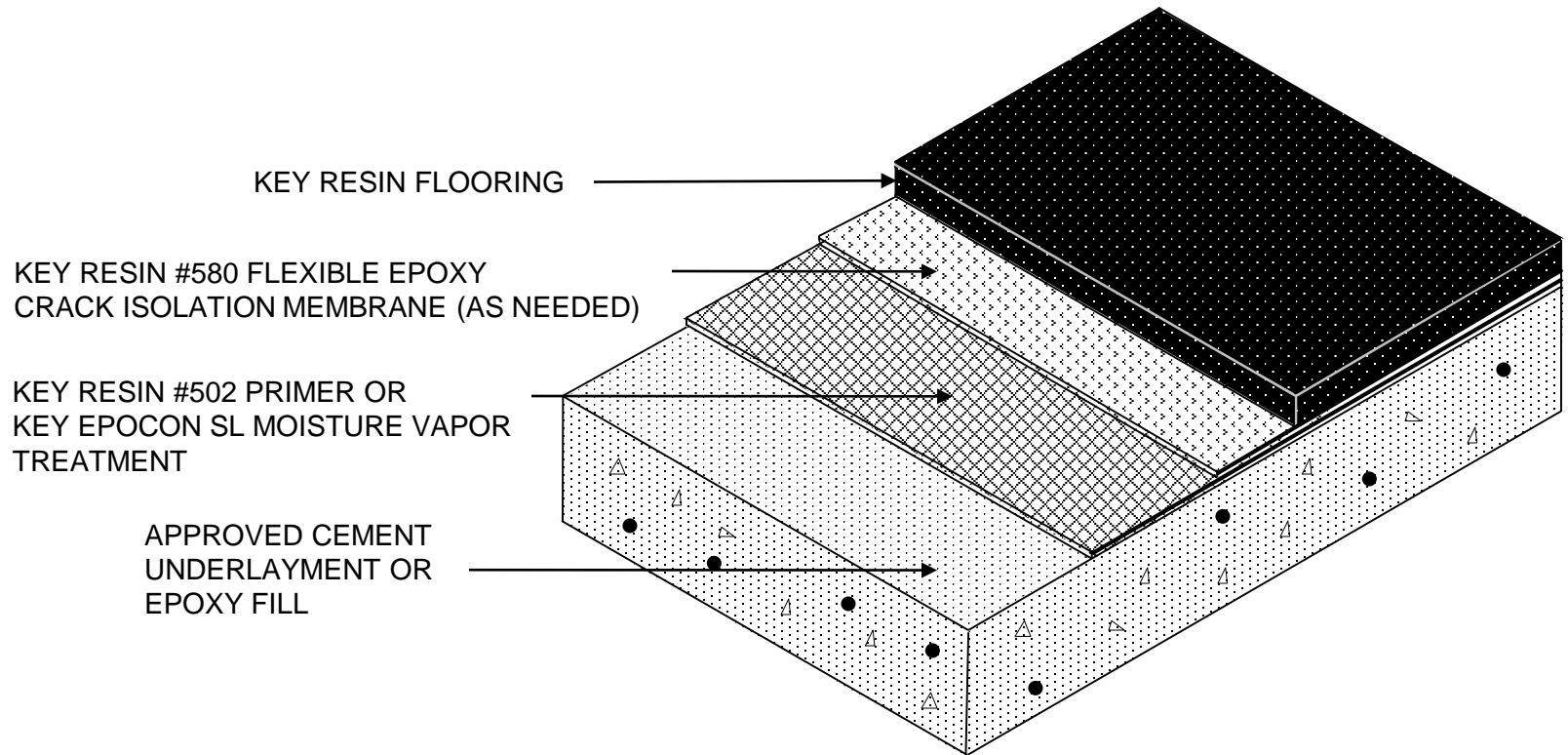
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DETAIL: **EPOXY TERRAZZO OVER CONCRETE**

FILE #: **KEY-DTL-8**

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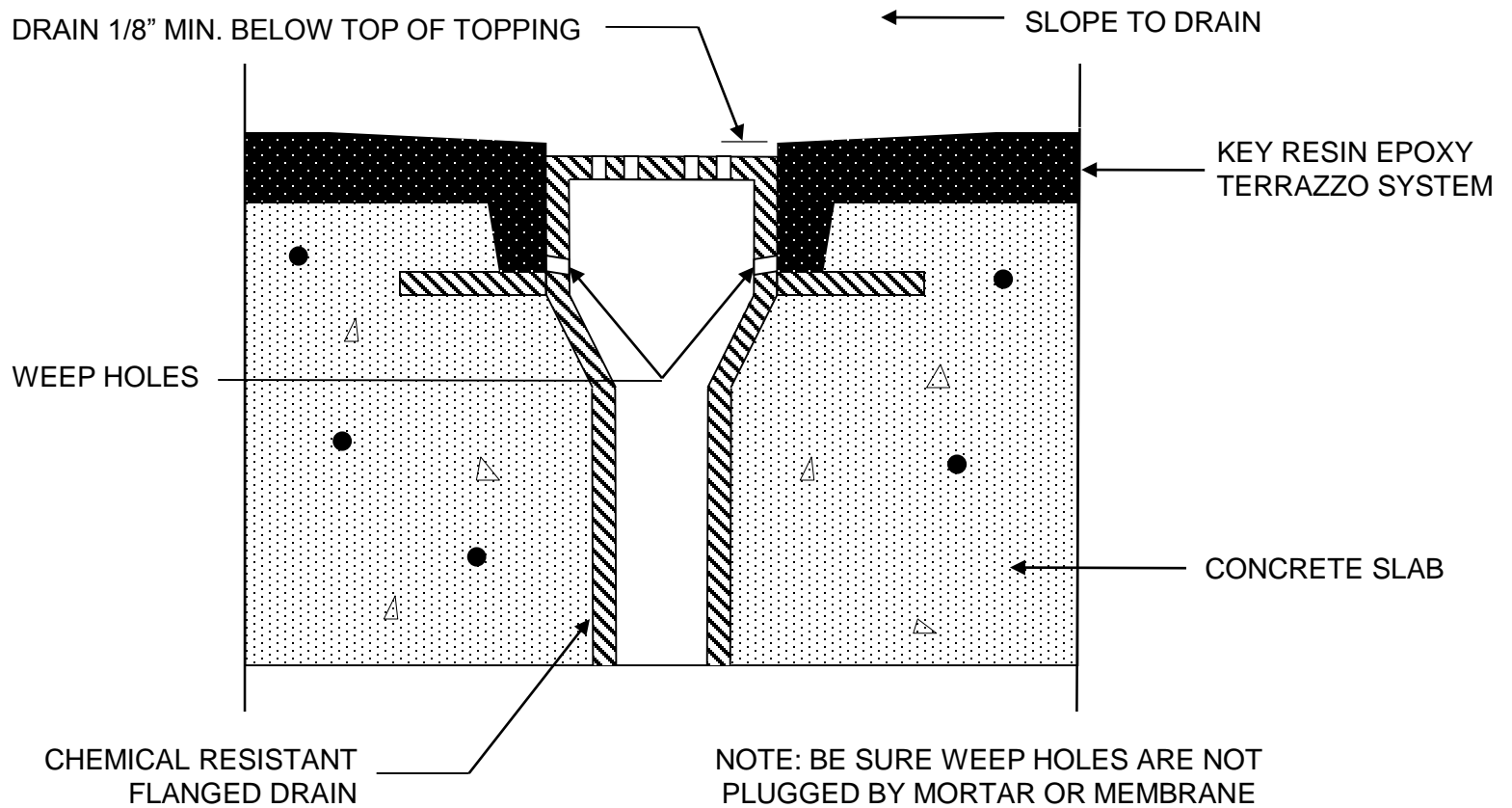
NOT TO  
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DATE:  
10/28/10

DETAIL:  
EPOXY FLOORING OVER EPOXY/CEMENT FILL

FILE #:  
KEY-DTL-9

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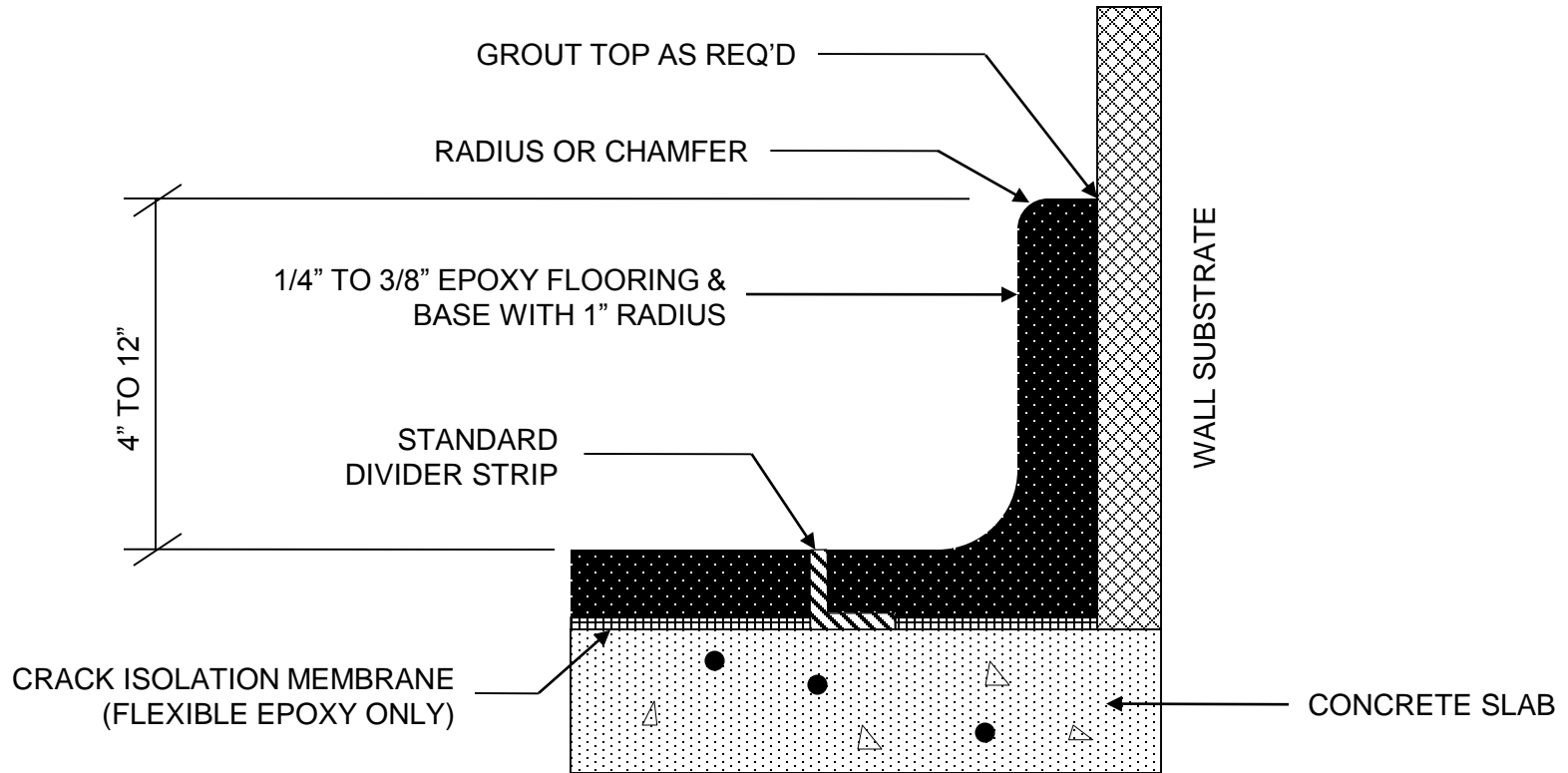
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DETAIL:  
**FLANGED DRAIN DETAIL**

FILE #:  
**KEY-DTL-10**



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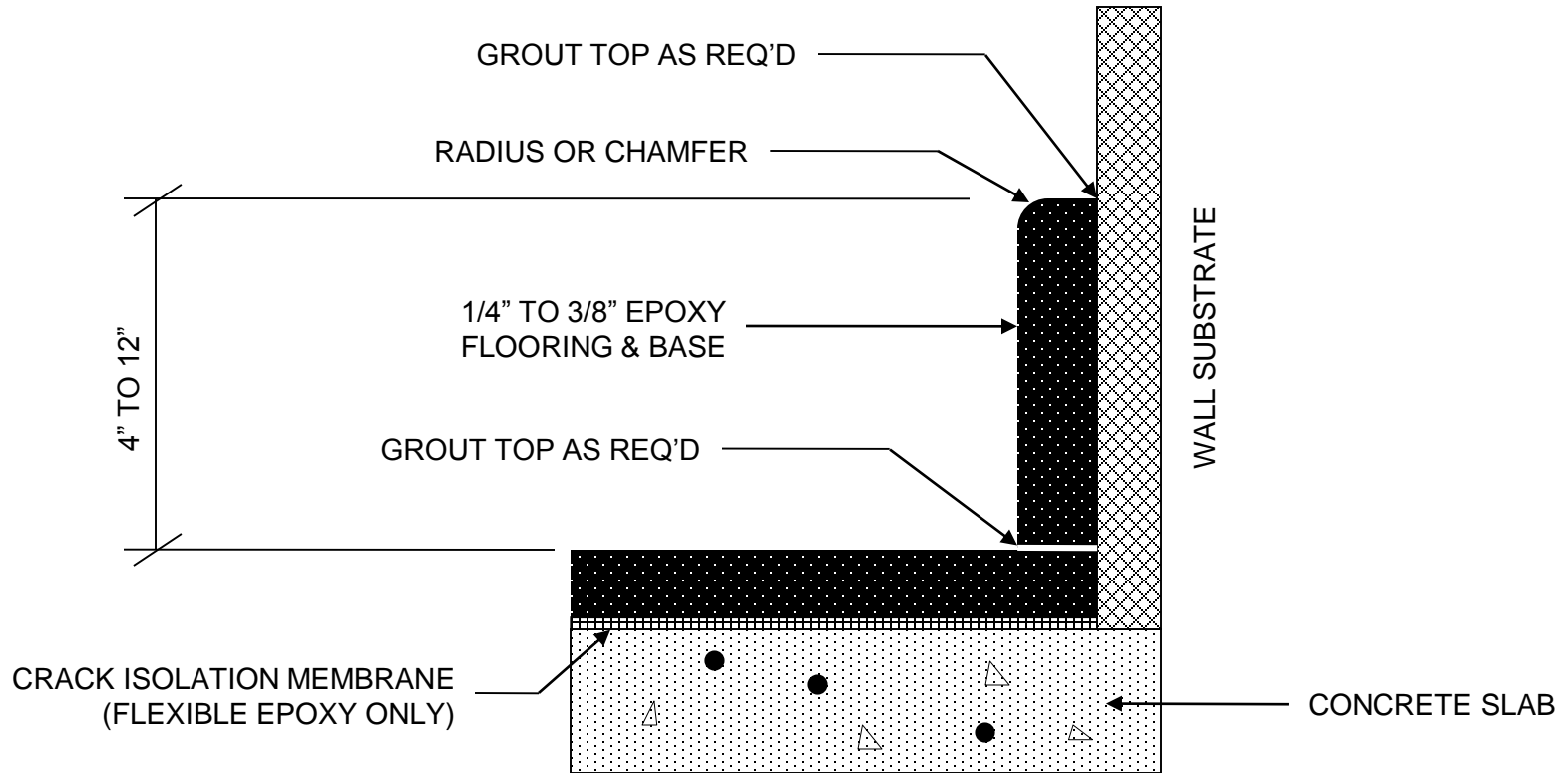
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DATE:  
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DETAIL:  
**COVE DETAIL #1**

FILE #:  
**KEY-DTL-12**

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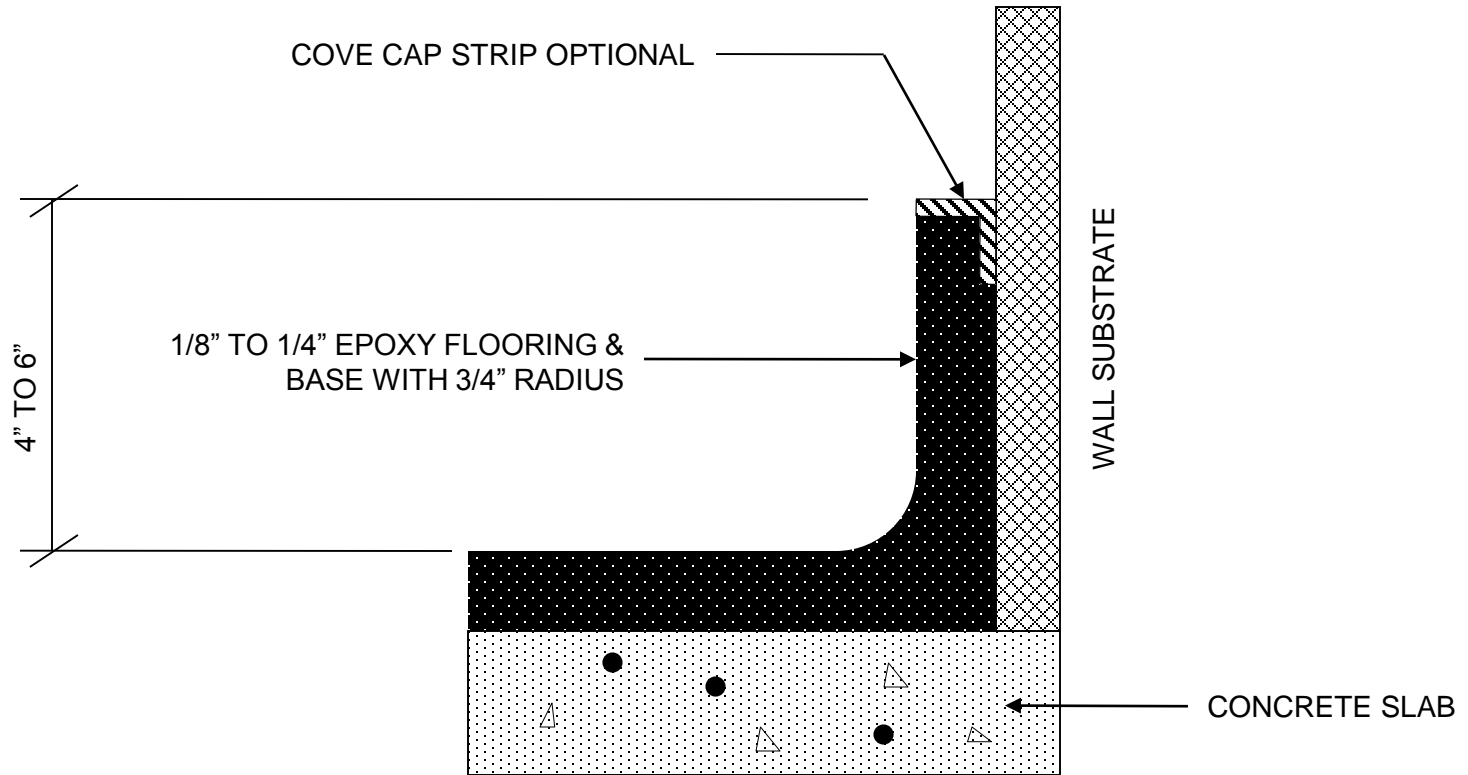


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DETAIL:  
**COVE DETAIL #2**  
FILE #:  
**KEY-DTL-13**

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DATE:  
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DETAIL: **COVE DETAIL #3 – RESINOUS FLOOR**

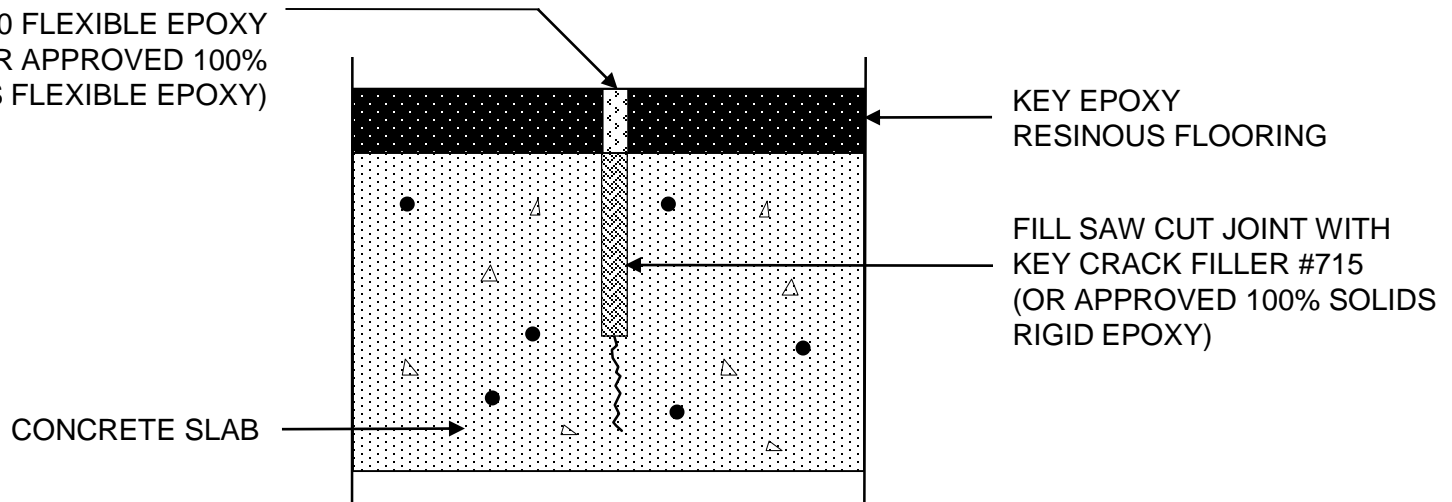
FILE #: **KEY-DTL-14**



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## SAW CUT CONTROL JOINT RESINOUS FLOOR

FILL SAW CUT JOINT WITH  
KEY #780 FLEXIBLE EPOXY  
(OR APPROVED 100%  
SOLIDS FLEXIBLE EPOXY)



NOTE: FOLLOWING CURE OF INSTALLED  
RESINOUS FLOOR, SAW CUT TO RECEIVE  
FLEXIBLE EPOXY.



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DETAIL: **JOINT DETAILS – RESINOUS FLOOR**

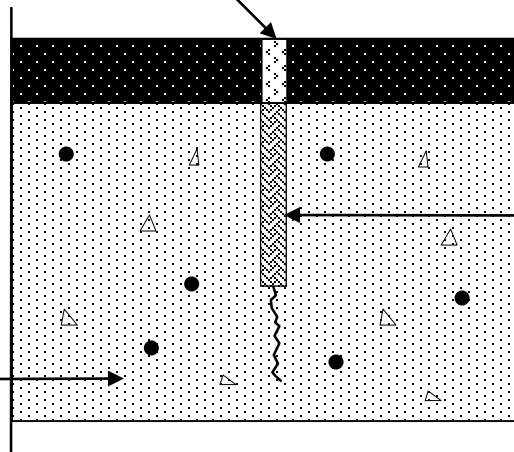
FILE #: **KEY-DTL-15**

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## SAW CUT CONTROL JOINT RESINOUS FLOOR

FILL SAW CUT JOINT  
WITH APPROVED  
FLEXIBLE JOINT FILLER

CONCRETE SLAB



KEY EPOXY  
RESINOUS FLOORING

FILL CONCRETE SAW CUT  
JOINT WITH APPROVED  
RIGID EPOXY

NOTE: FOLLOWING CURE OF INSTALLED  
RESINOUS FLOOR, SAW CUT TO RECEIVE  
FLEXIBLE JOINT FILLER.



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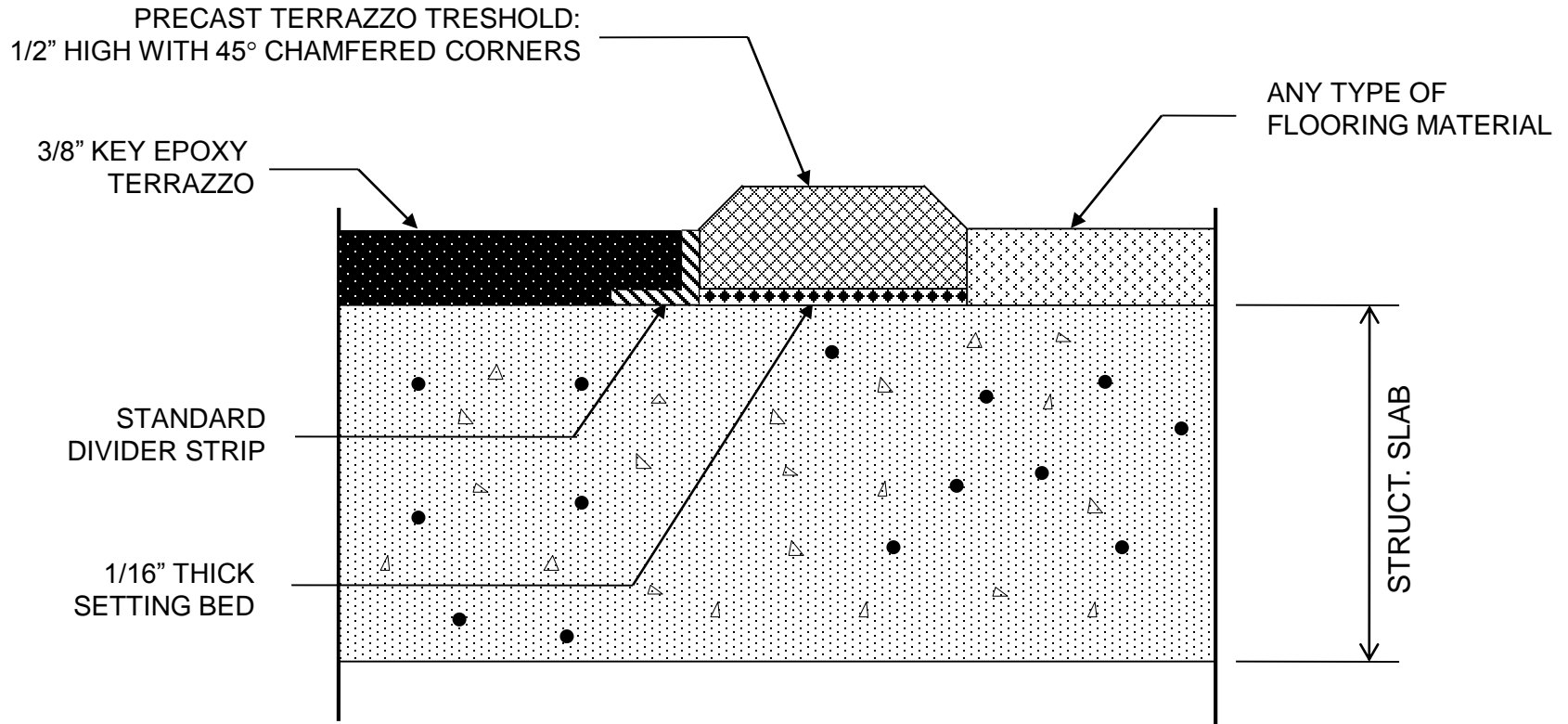
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DETAIL: **JOINT DETAILS – RESINOUS FLOOR**

FILE #: **KEY-DTL-15.A**

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NOTE: DIVIDER STRIP AND PRECAST THRESHOLD  
ADHERED TO SUBSTRATE WITH 100% SOLIDS  
EPOXY ADHESIVE.



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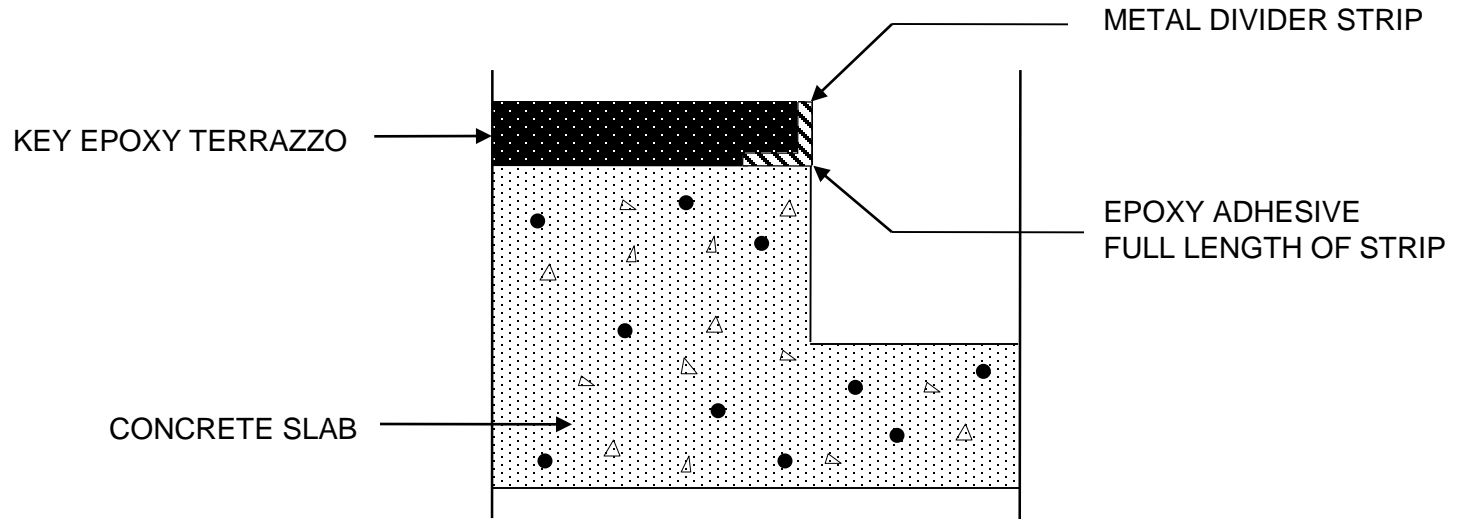
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DETAIL:  
**PRECAST TERRAZZO THRESHOLD**

FILE #:  
**KEY-DTL-16**

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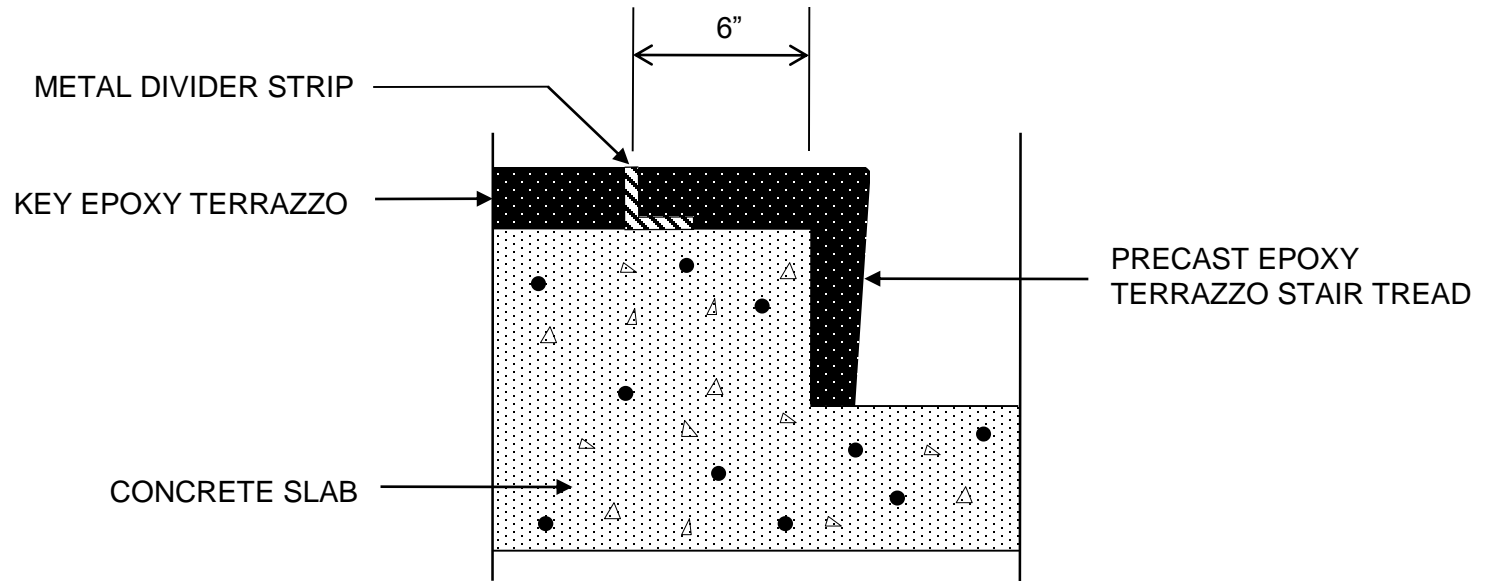


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DETAIL: **TERRAZZO STEP TERMINATION DETAIL**  
FILE #: **KEY-DTL-17**

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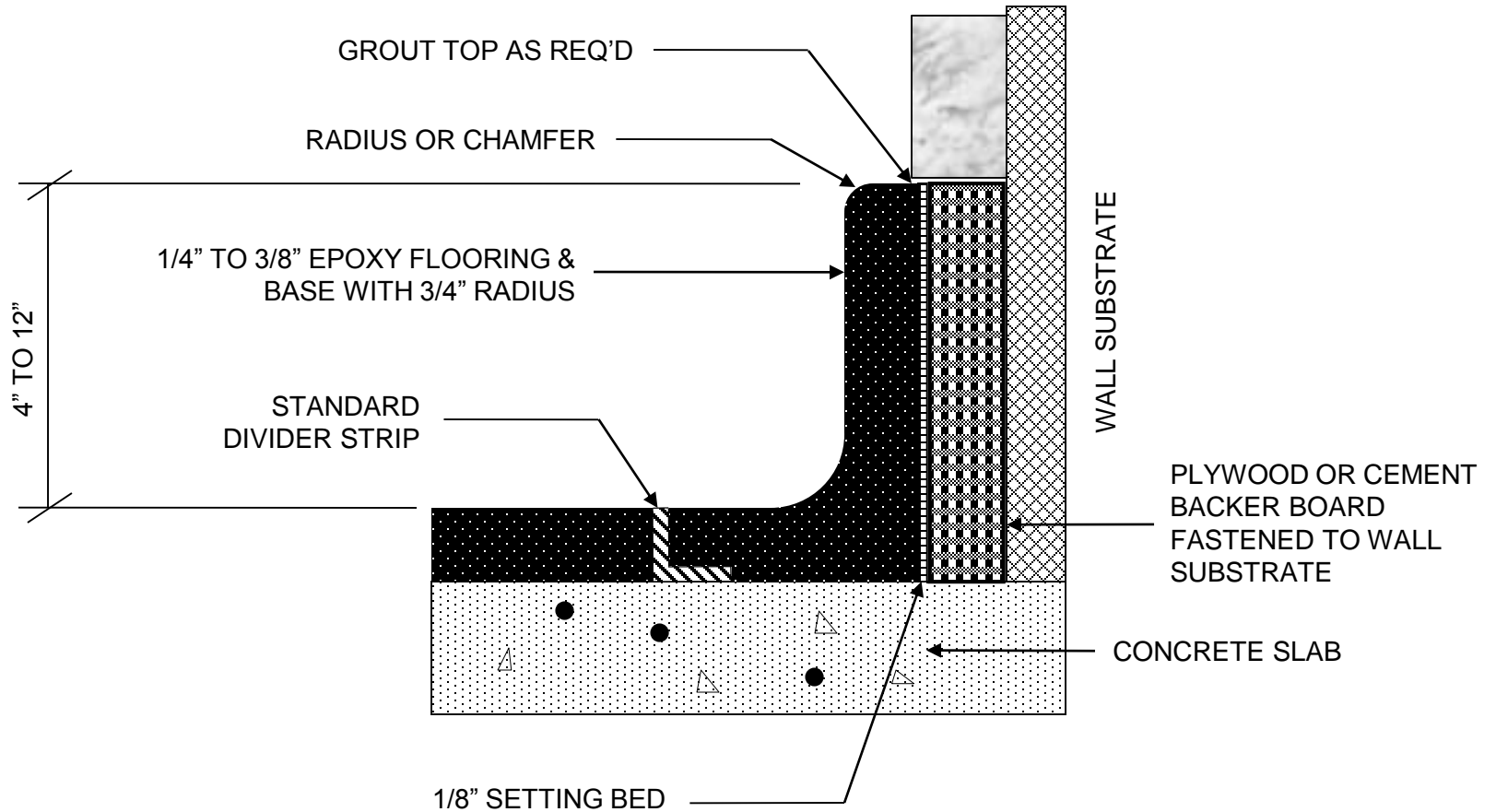
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DETAIL:  
RISER TREAD DETAIL

FILE #:  
KEY-DTL-18

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DATE:  
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DETAIL: **PRECAST EPOXY TERRAZZO COVE BASE**

FILE #: **KEY-DTL-19**

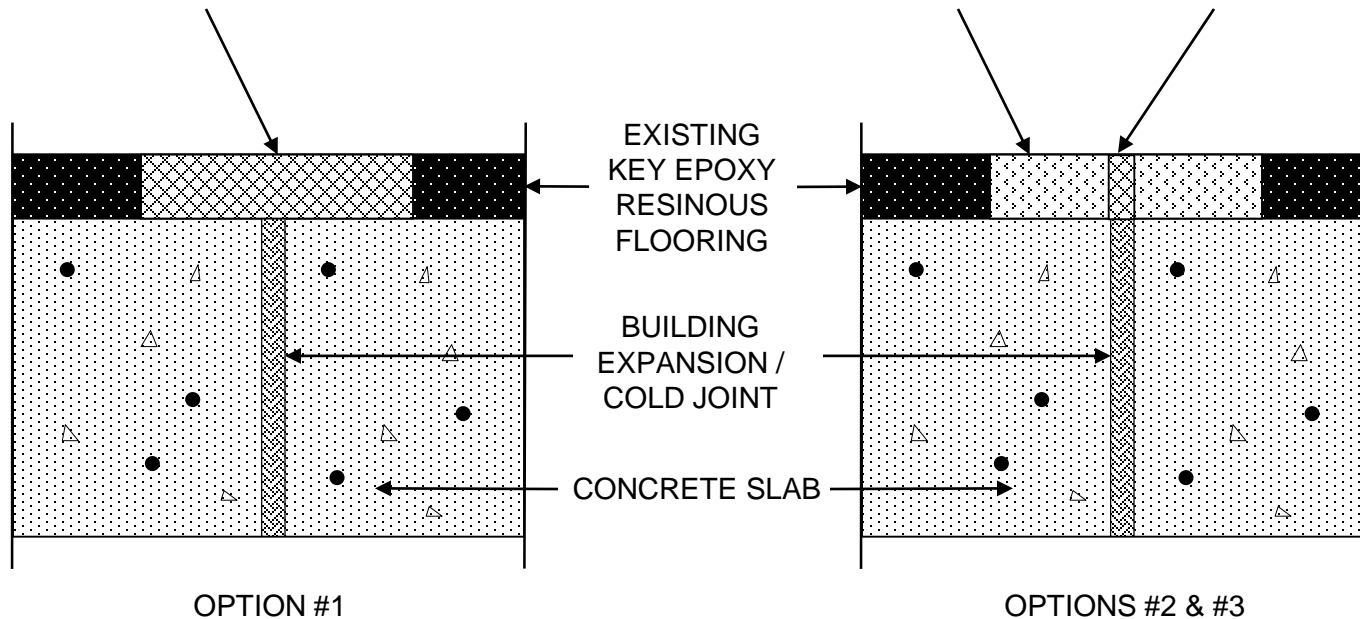
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# SAW CUT CONTROL JOINT RESINOUS FLOOR

1. SAW CUT TWO LINES TO CAPTURE ENTIRE WIDTH OF FLOOR CRACK AND REMOVE FLOORING IN BETWEEN
2. FILL SAW CUT JOINT WITH KEY #780 FLEXIBLE EPOXY (OR APPROVED 100% SOLIDS FLEXIBLE EPOXY)

1. SAW CUT TWO LINES TO CAPTURE ENTIRE WIDTH OF FLOOR CRACK AND REMOVE FLOORING IN BETWEEN
2. REPAIR SPACE WITH EXISTING FLOORING SYSTEM OR ALTERNATE COMPLIMENTARY SOLID COLOR EPOXY SYSTEM.

3. SAW CUT NARROW JOINT ABOVE FLOOR JOINT
4. FILL SAW CUT JOINT WITH KEY #780 FLEXIBLE EPOXY (OR APPROVED 100% SOLIDS FLEXIBLE EPOXY)



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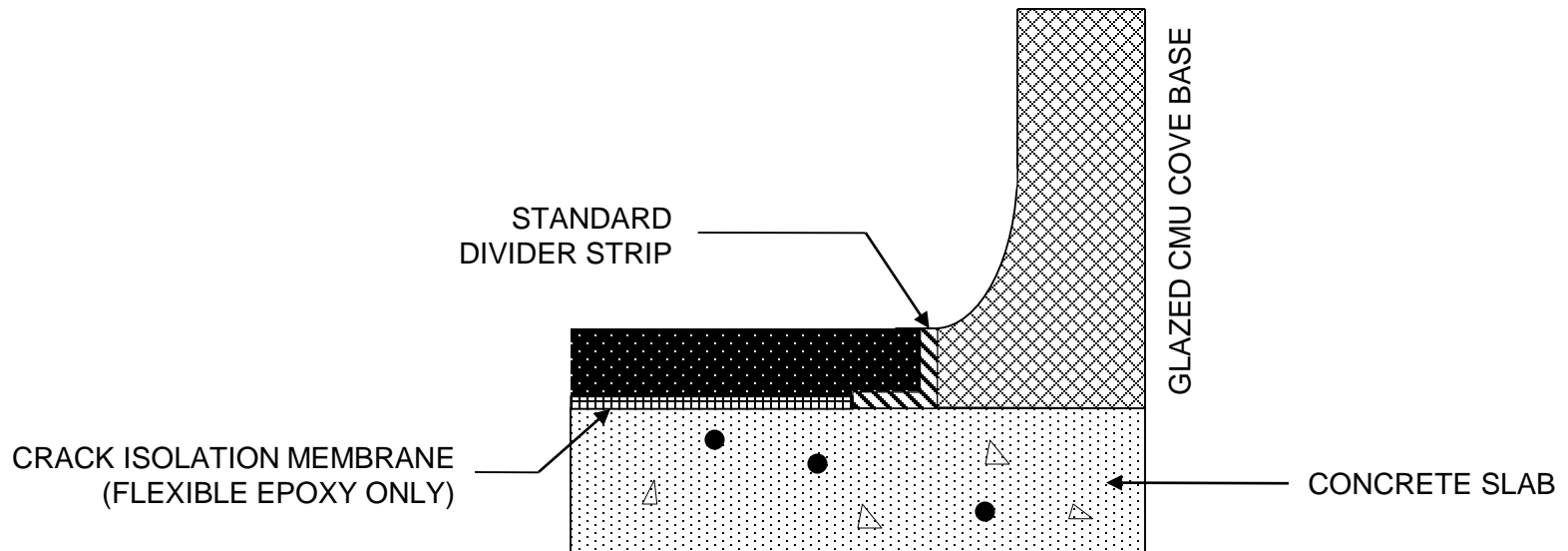
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DETAIL: **JOINT DETAILS – RESINOUS FLOOR**

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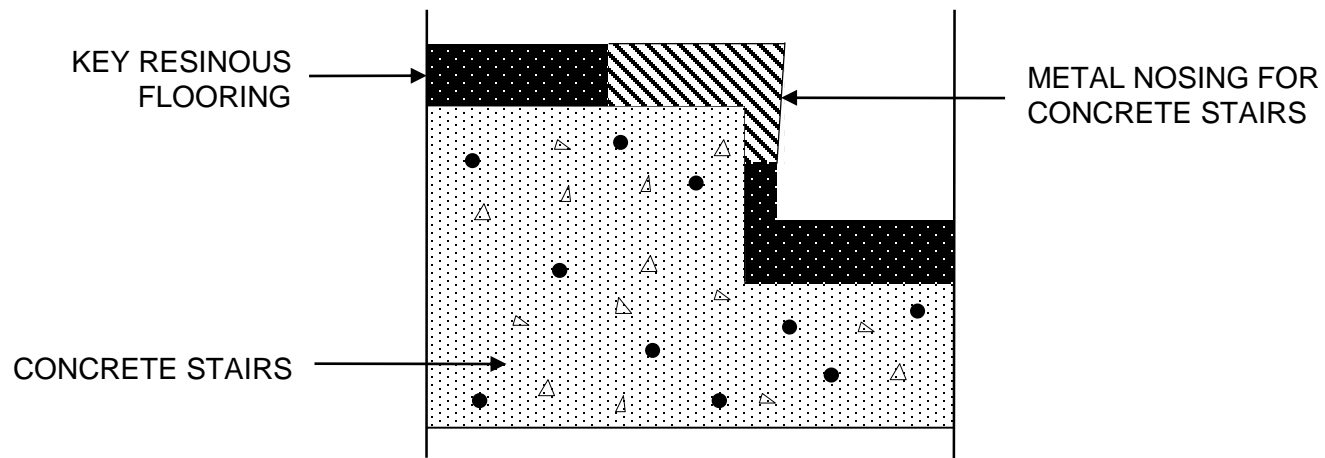
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DETAIL:  
**COVE DETAIL #4**

FILE #:  
**KEY-DTL-21**



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DATE:  
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DETAIL: **RESINOUS STAIR NOSING DETAIL**

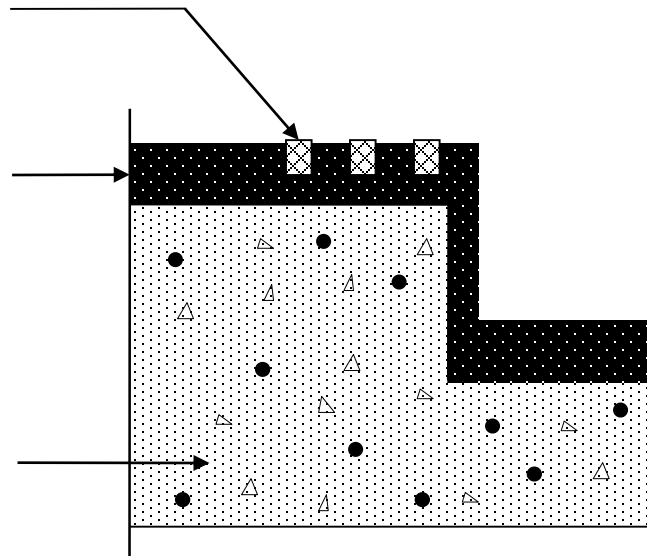
FILE #: **KEY-DTL-23**

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FILL SAW CUT CHANNELS  
WITH SILICON CARBIDE OR  
ALUMINUM OXIDE IN 100%  
SOLIDS EPOXY RESIN

KEY RESINOUS  
FLOORING

CONCRETE STAIRS



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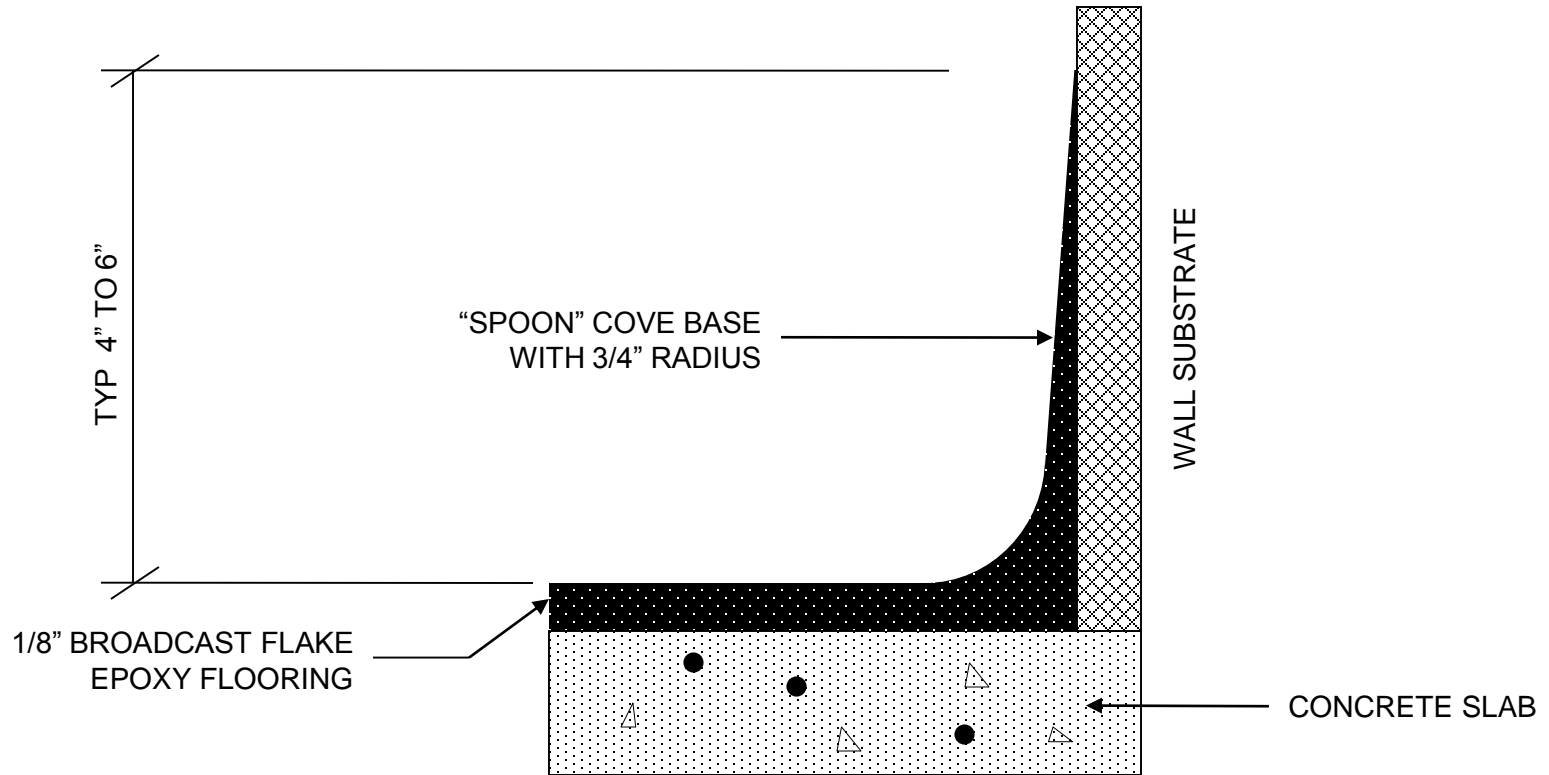
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DETAIL:  
RISER TREAD DETAIL

FILE #:  
KEY-DTL-24

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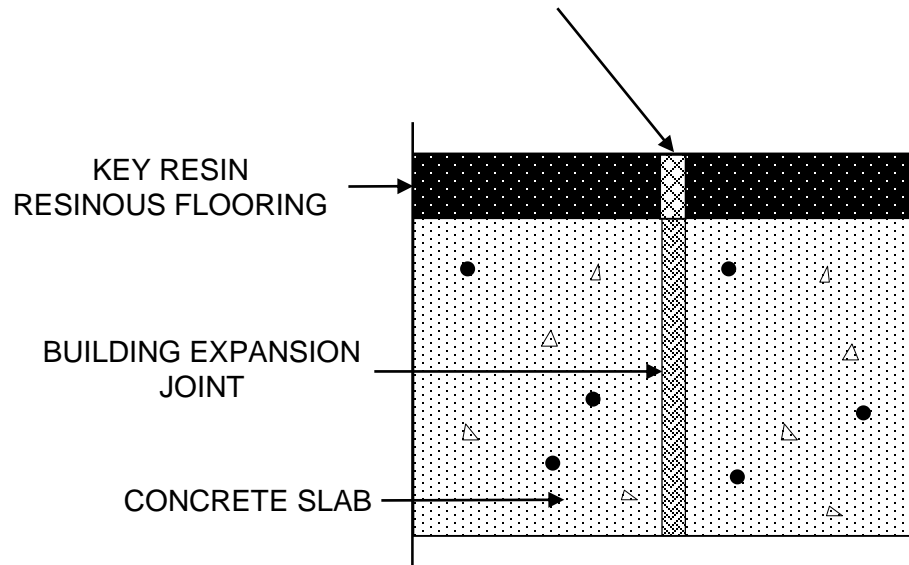
DETAIL: **COVE DETAIL #5 – RESINOUS FLOOR**

FILE #: **KEY-DTL-25**

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# SAW CUT EXPANSION JOINT RESINOUS FLOOR

1. INSTALL KEY RESIN RESINOUS FLOORING
2. SAW CUT NARROW JOINT ABOVE FLOOR JOINT
3. FILL SAW CUT JOINT WITH KEY #780 FLEXIBLE EPOXY (OR APPROVED FLEXIBLE JOINT MATERIAL)



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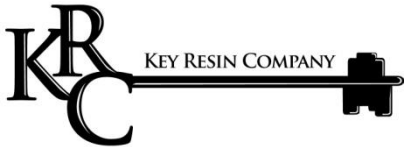
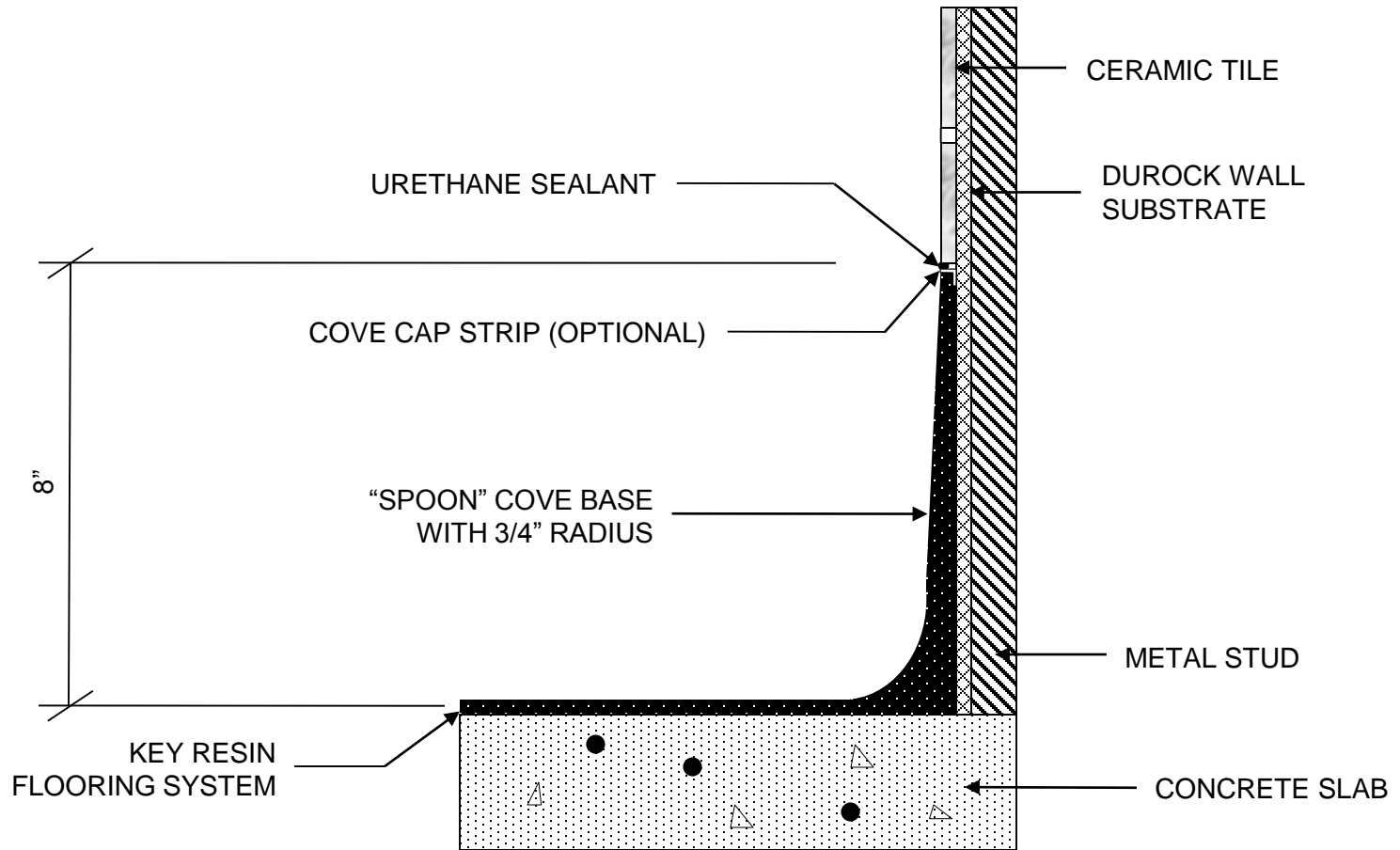
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DETAIL: **SAW CUT EXPANSION JOINT – RS FLR**

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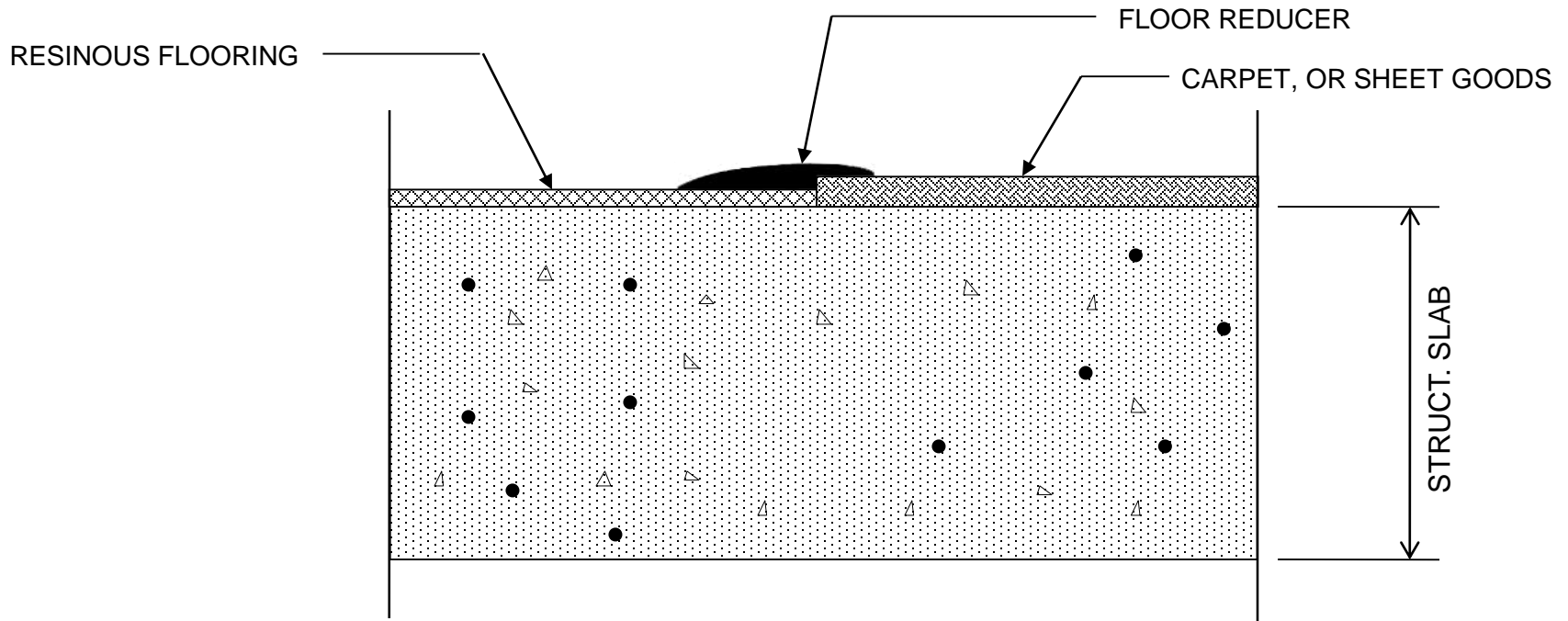
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DATE:  
03/31/14

DETAIL: **COVE DETAIL #6 – 8" RESINOUS COVE**

FILE #: **KEY-DTL-27**

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NOTE: RESINOUS FLOORING TO BE POURED FIRST.  
OTHER TRADES TO FINISH AT PROPER ELEVATION



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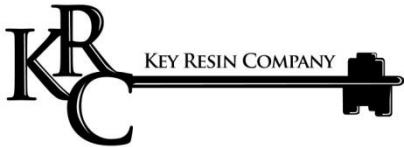
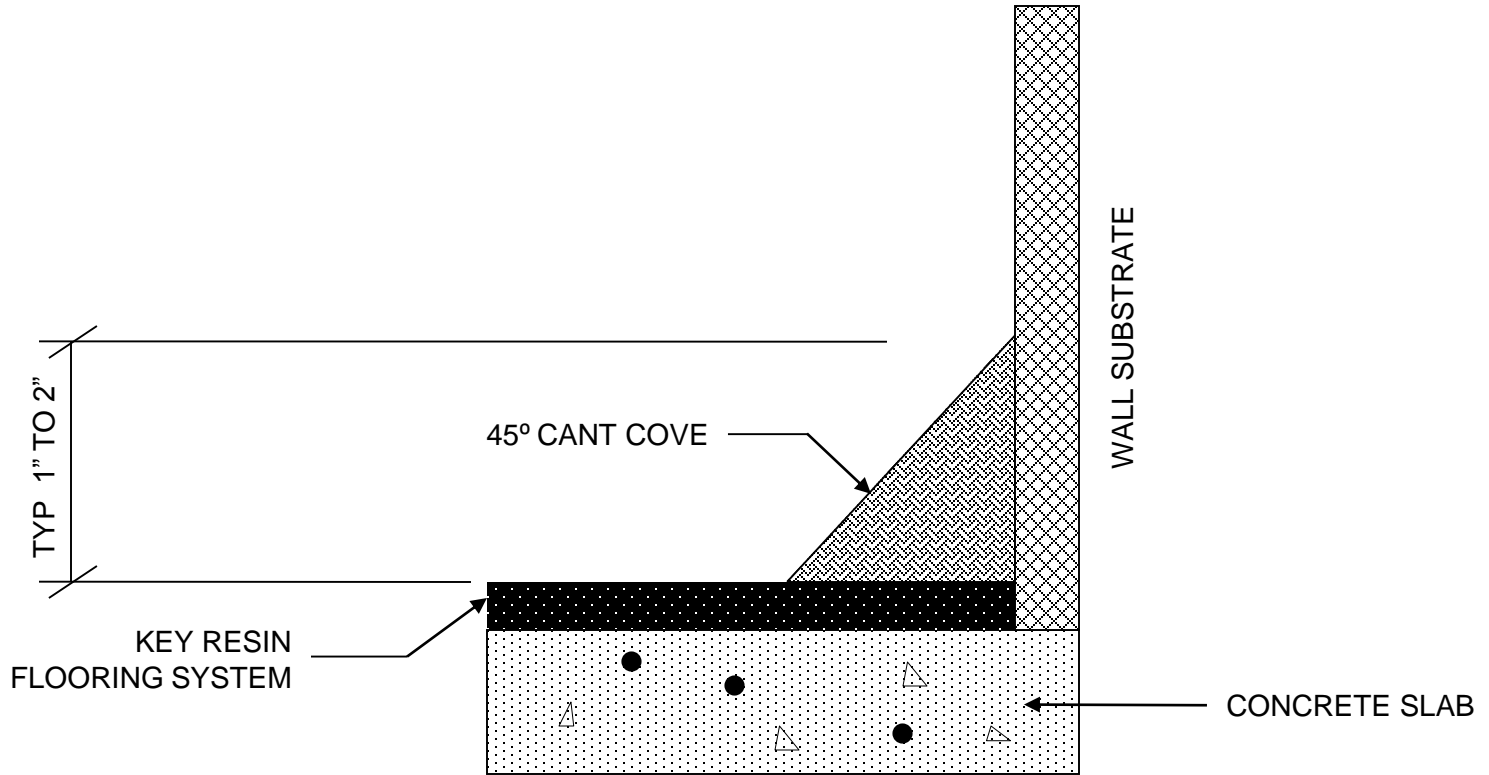
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DETAIL:  
RESINOUS FLOOR/CARPET TILE TERMINATION

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DETAIL: **CANT COVE DETAIL – RESINOUS FLOOR**

FILE #: **KEY-DTL-29**

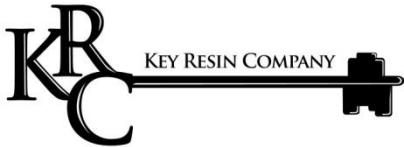
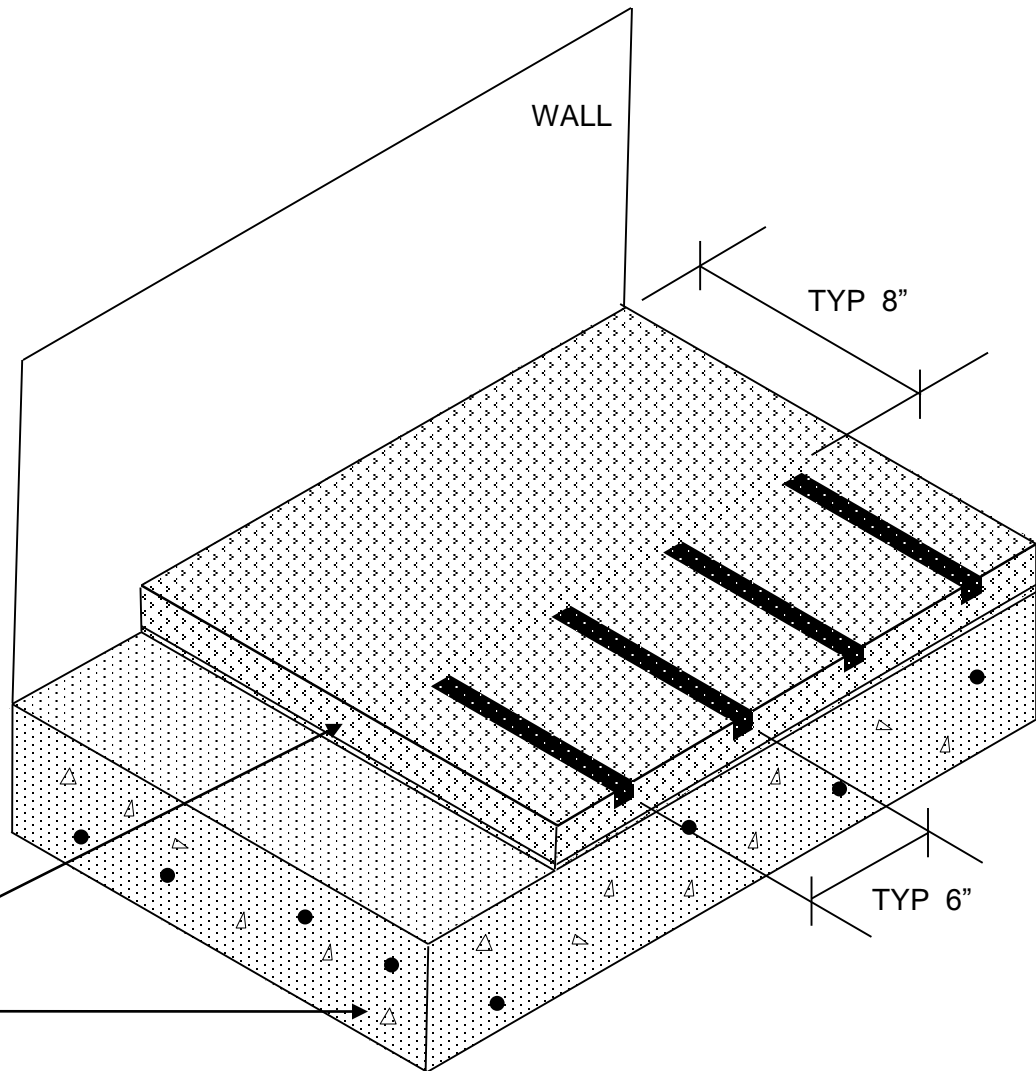
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NOTES:

- TYP POSITIONED 6" APART ACROSS A RAMP PERPENDICULAR TO THE TRAFFIC.
- TYP STOP 8" FROM THE WALL LINE.
- NON-SLIP LINE WIDTH IS NORMALLY 3/8" AND EACH STRIP IS ELEVATED ABOUT 1/16" ABOVE THE TERRAZZO SURFACE.
- COMMON INSTALLATION METHOD IS TO SAW CUT A GROOVE IN THE COMPLETED TERRAZZO 3/8" WIDE AND 1/4" DEEP AND FILL WITH AN EPOXY/ABRASIVE MIXTURE
- TYP ABRASIVES INCLUDE SILICON CARBIDE OR ALUMINUM OXIDE
- THE USE OF LIGHT-COLORED ABRASIVE STRIPS IS NOT RECOMMENDED DUE TO MAINTENANCE FACTORS

KEY RESIN EPOXY  
TERRAZZO SYSTEM

CONCRETE SUBSTRATE



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SCALE

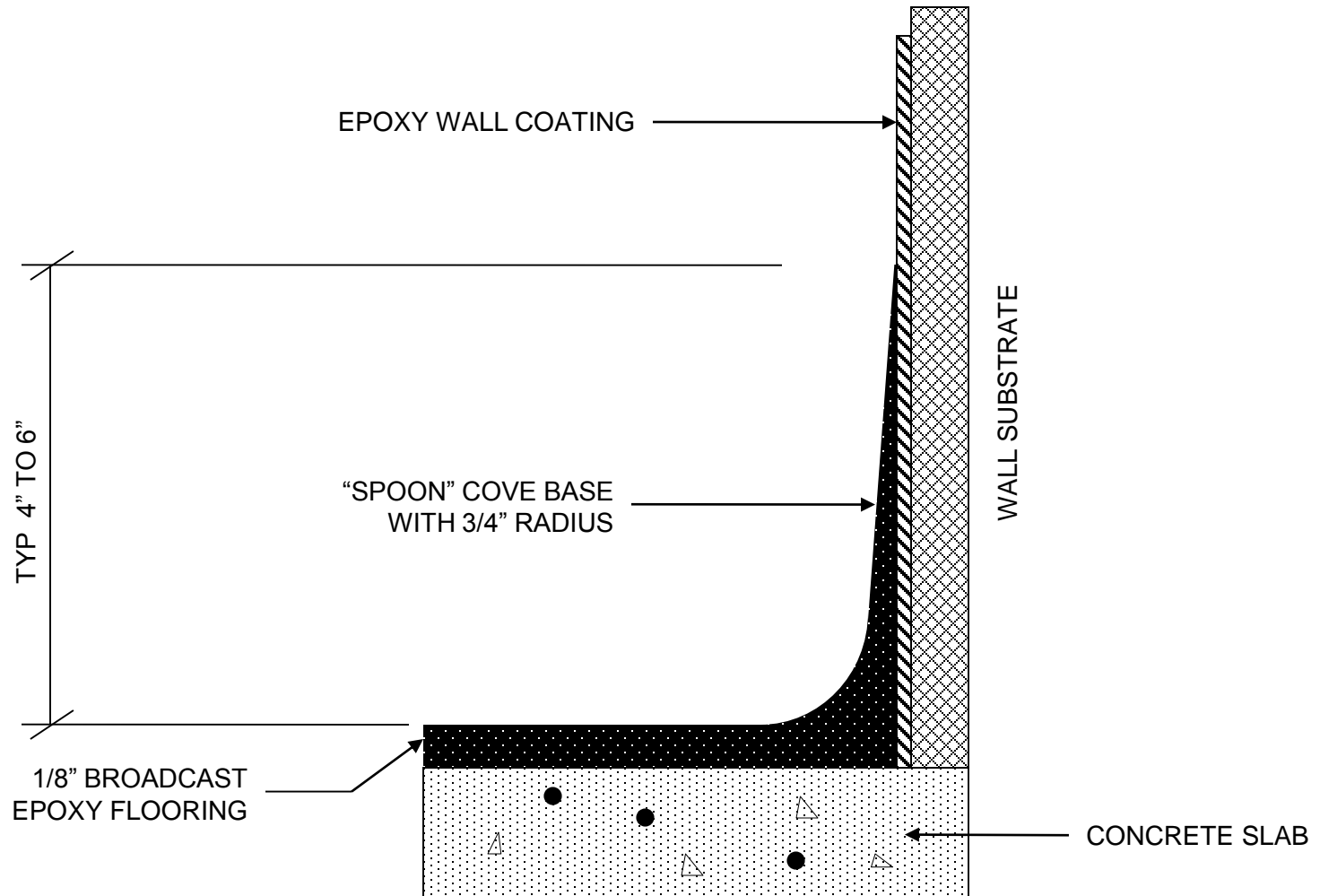
DATE:  
10/14/14

DETAIL: **ABRASIVE NON-SLIP LINES**

FILE #: **KEY-DTL-30**



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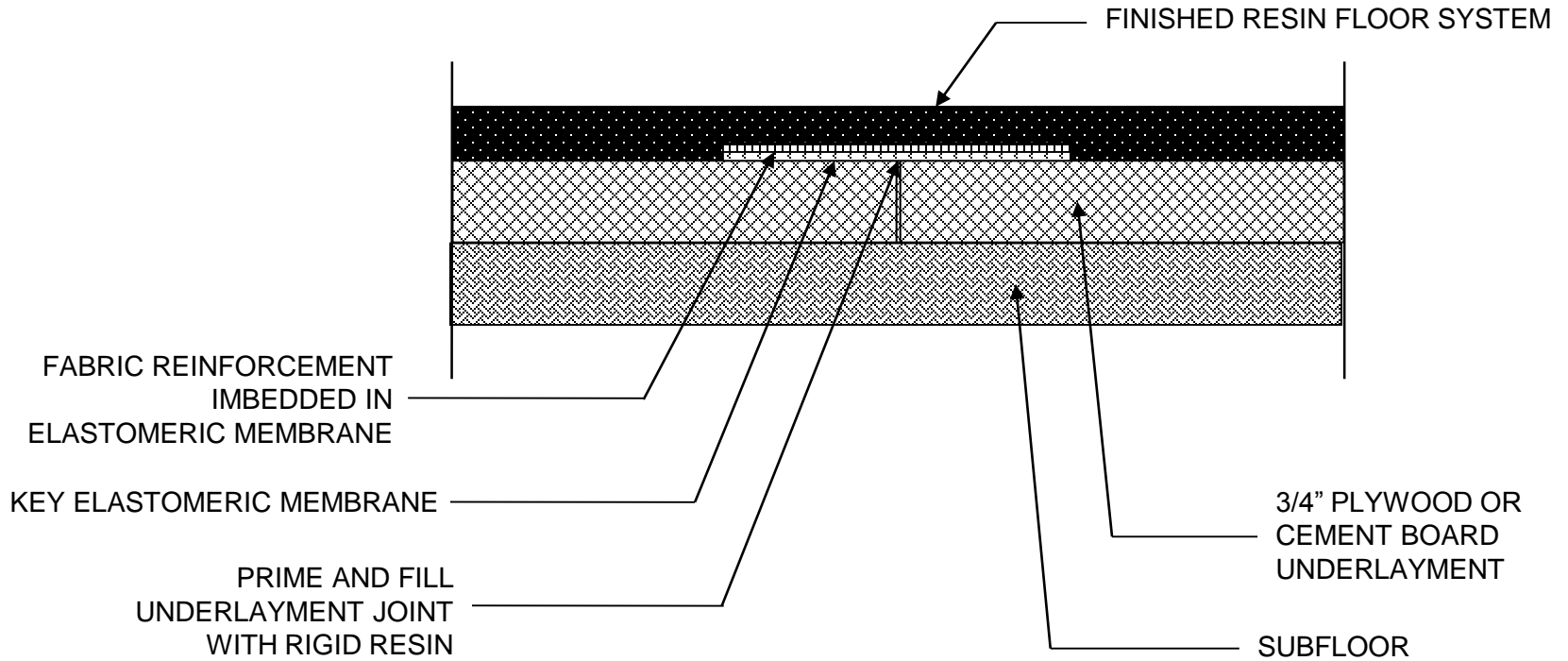


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SCALE  
DATE:  
10/23/14

DETAIL: **COVE DETAIL – RESINOUS FLOOR/WALL**  
FILE #: **KEY-DTL-31**

*Click For Table of Contents*



NOTE: REFER TO KEY RESIN TECHNICAL BULLETIN #1 FOR SELECTION OF WOOD SUBSTRATE MATERIALS



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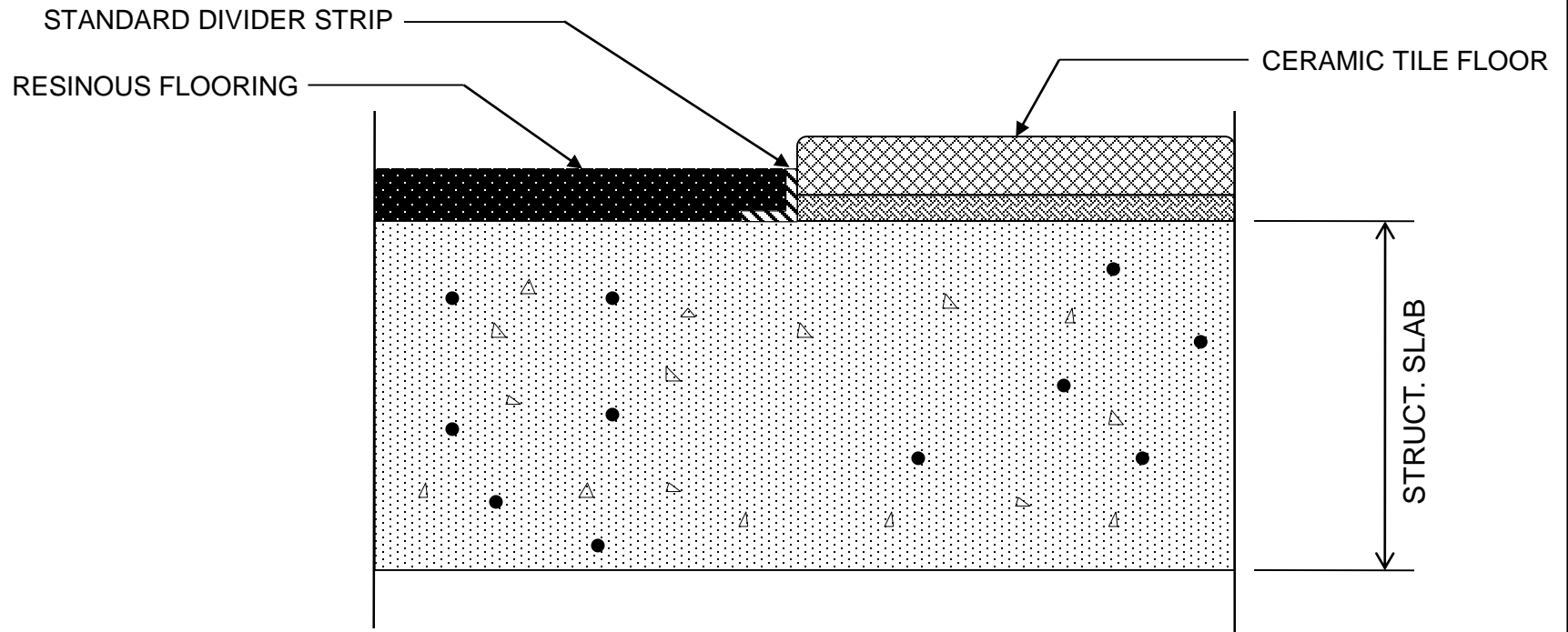
NOT TO  
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DATE:  
01/28/15

DETAIL: **JOINT TREATMENT – WOOD/CEMENT BOARD**

FILE #: **KEY-DTL-32**

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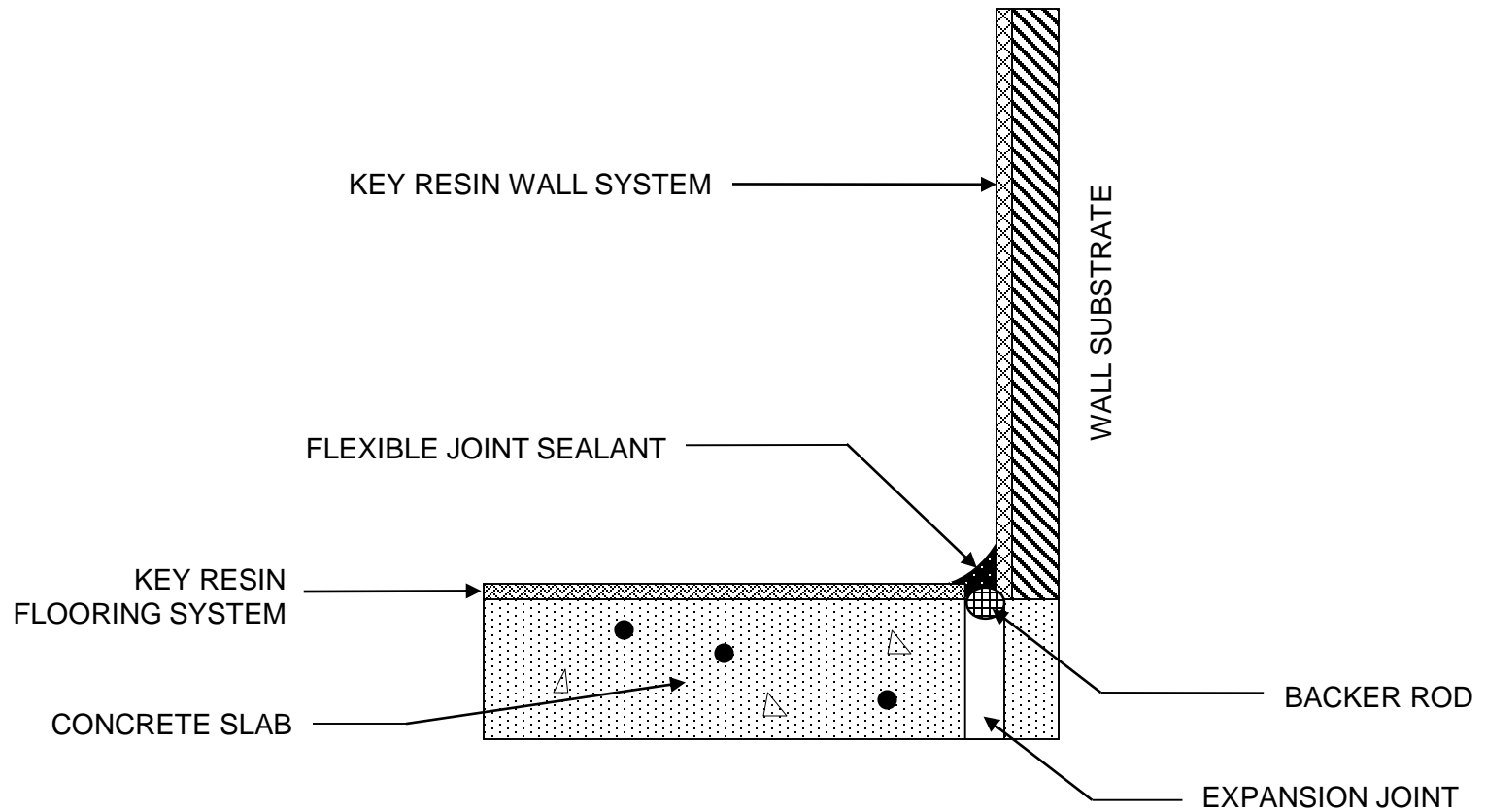


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SCALE  
DATE:  
**03/20/15**

DETAIL:  
**RESINOUS FLR/CERAMIC TILE TERMINATION**  
FILE #:  
**KEY-DTL-33**

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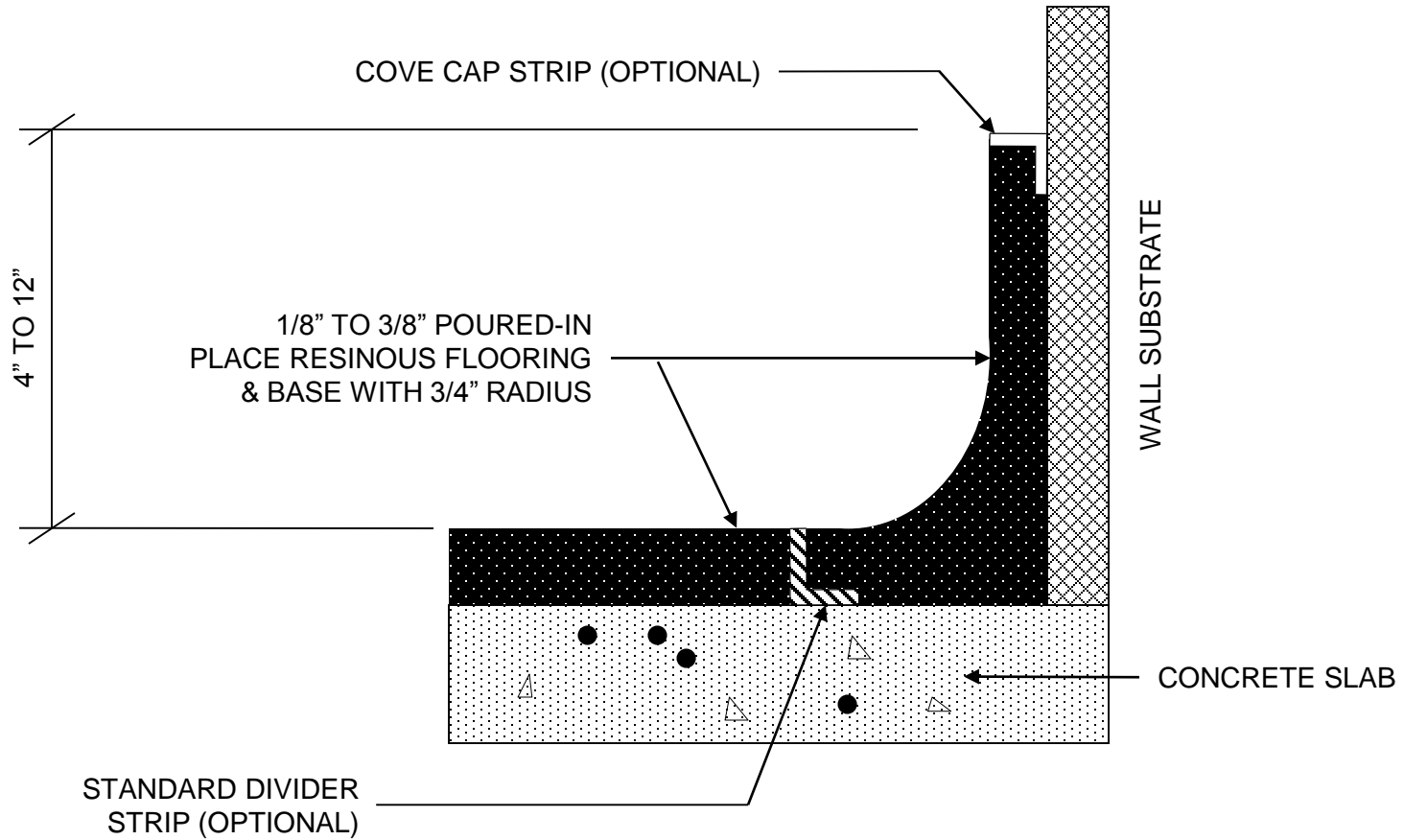
NOT TO  
SCALE

DATE:  
05/01/15

DETAIL: **COVE DETAIL #7 – OVER EXPANSION**

FILE #: **KEY-DTL-34**

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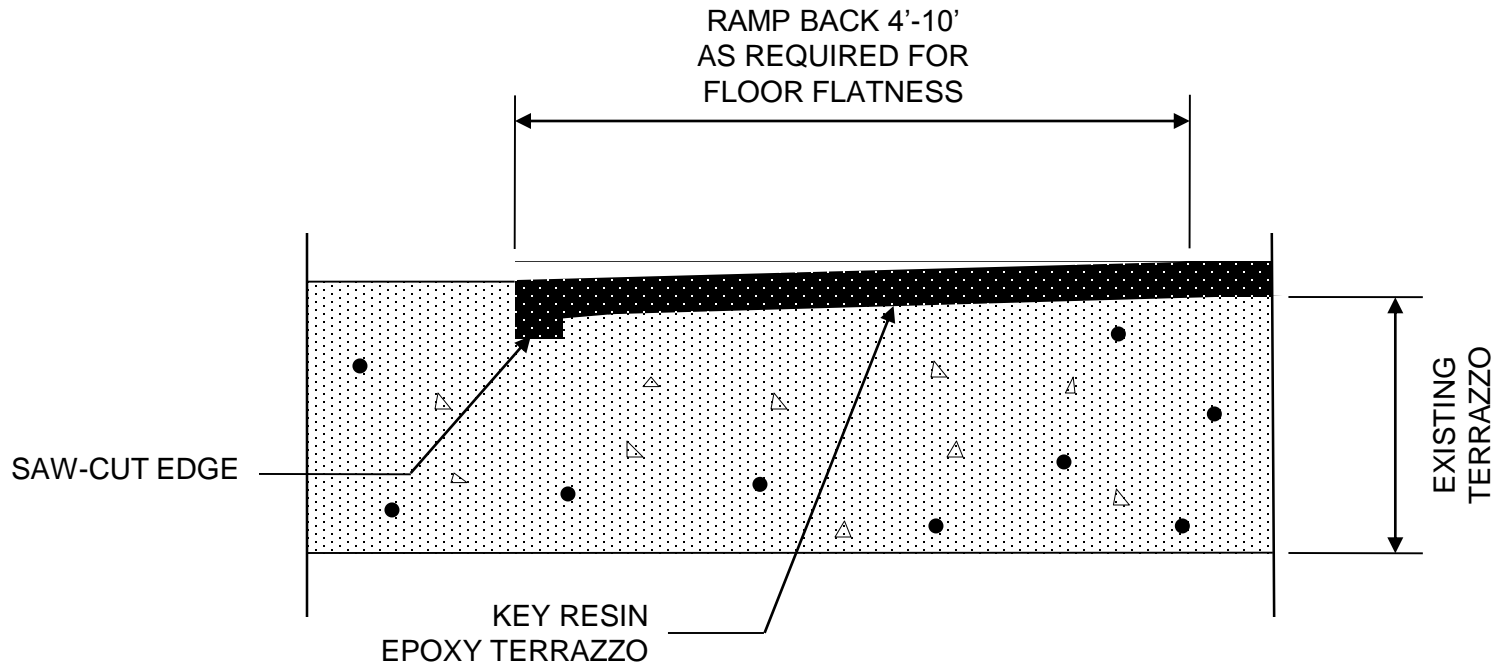
NOT TO  
SCALE

DATE:  
05/04/15

DETAIL: **COVE DETAIL #8 – RESINOUS W/ STRIPS**

FILE #: **KEY-DTL-35**

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**NOTE:**

- SAW CUT TO CREATE A CLEAN TRANSITION EDGE.
- GRIND, SCARIFY, OR CHIP OUT EXISTING MATERIAL TO ALLOW FOR FULL THICKNESS OF FINAL FLOOR TOPPING WITHOUT FEATHER EDGING.
- FOLLOW THE NTMA'S STANDARD RECOMMENDATIONS FOR INSTALLATION OVER EXISTING TERRAZZO.



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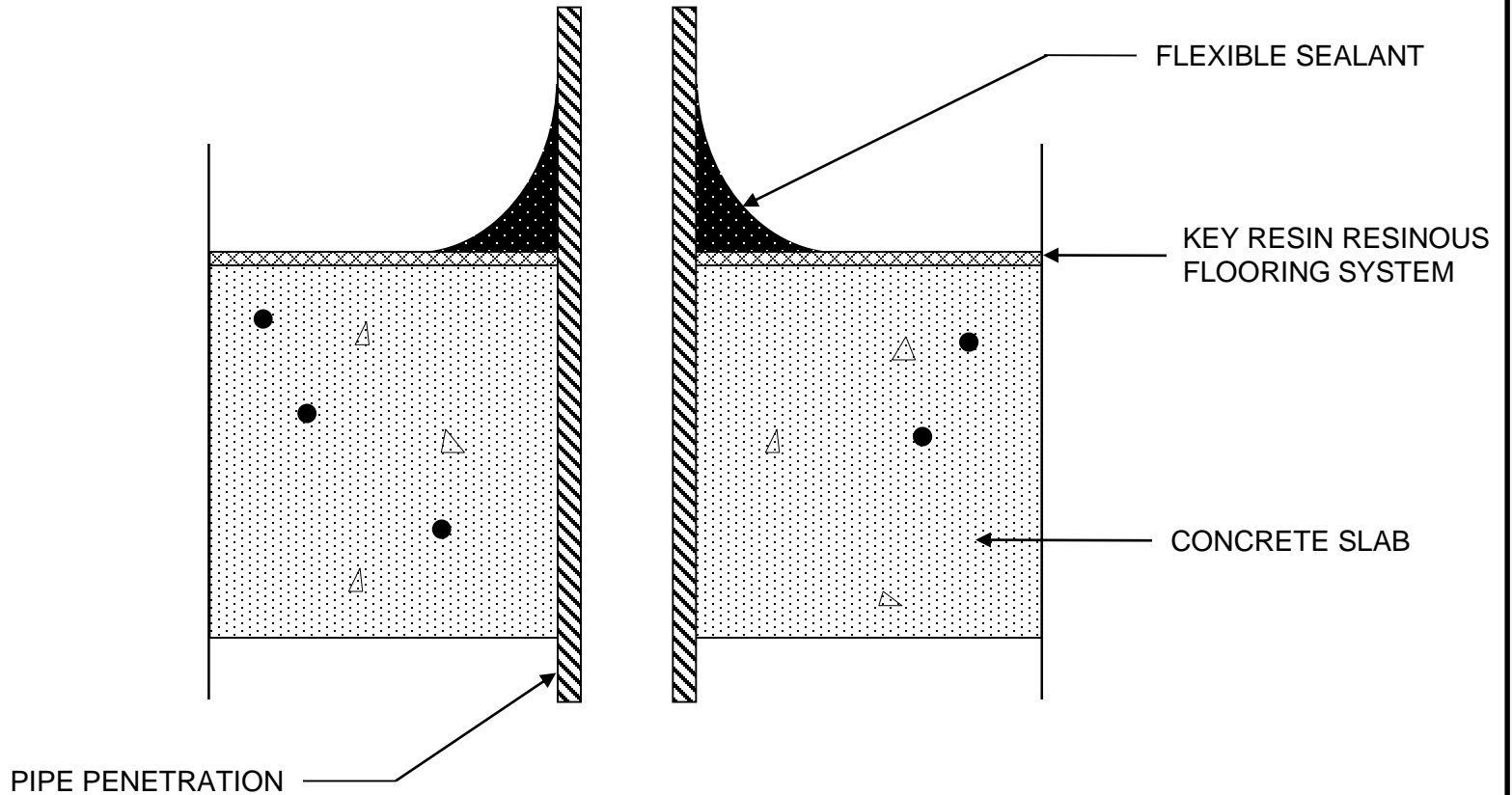
**NOT TO  
SCALE**

DATE:  
**06/05/15**

DETAIL:  
**TERRAZZO OVERLAY TRANSITION**

FILE #:  
**KEY-DTL-36**

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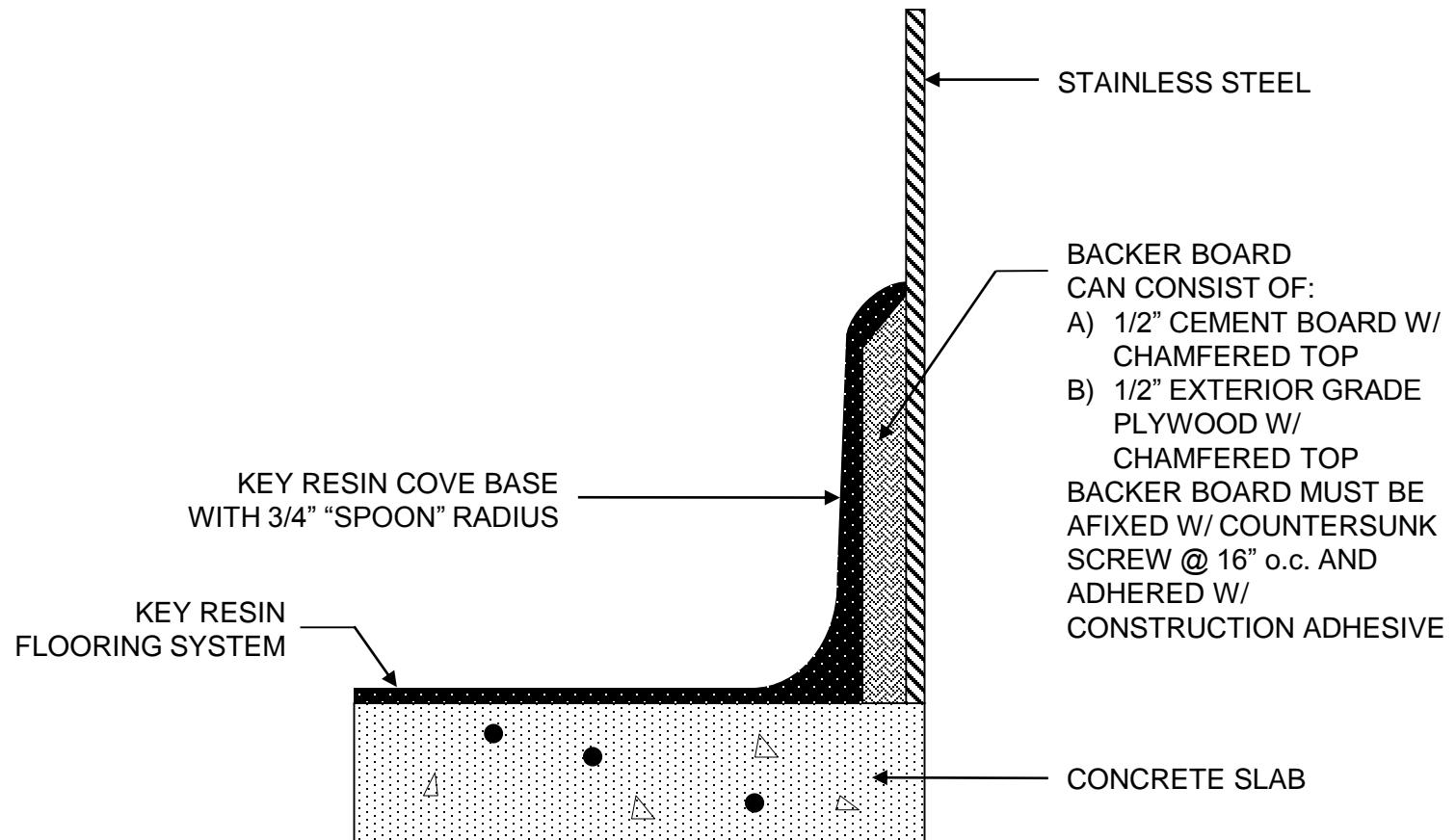
NOT TO  
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DATE:  
06/15/15

DETAIL:  
**PIPE PENETRATION DETAIL**

FILE #:  
**KEY-DTL-37**

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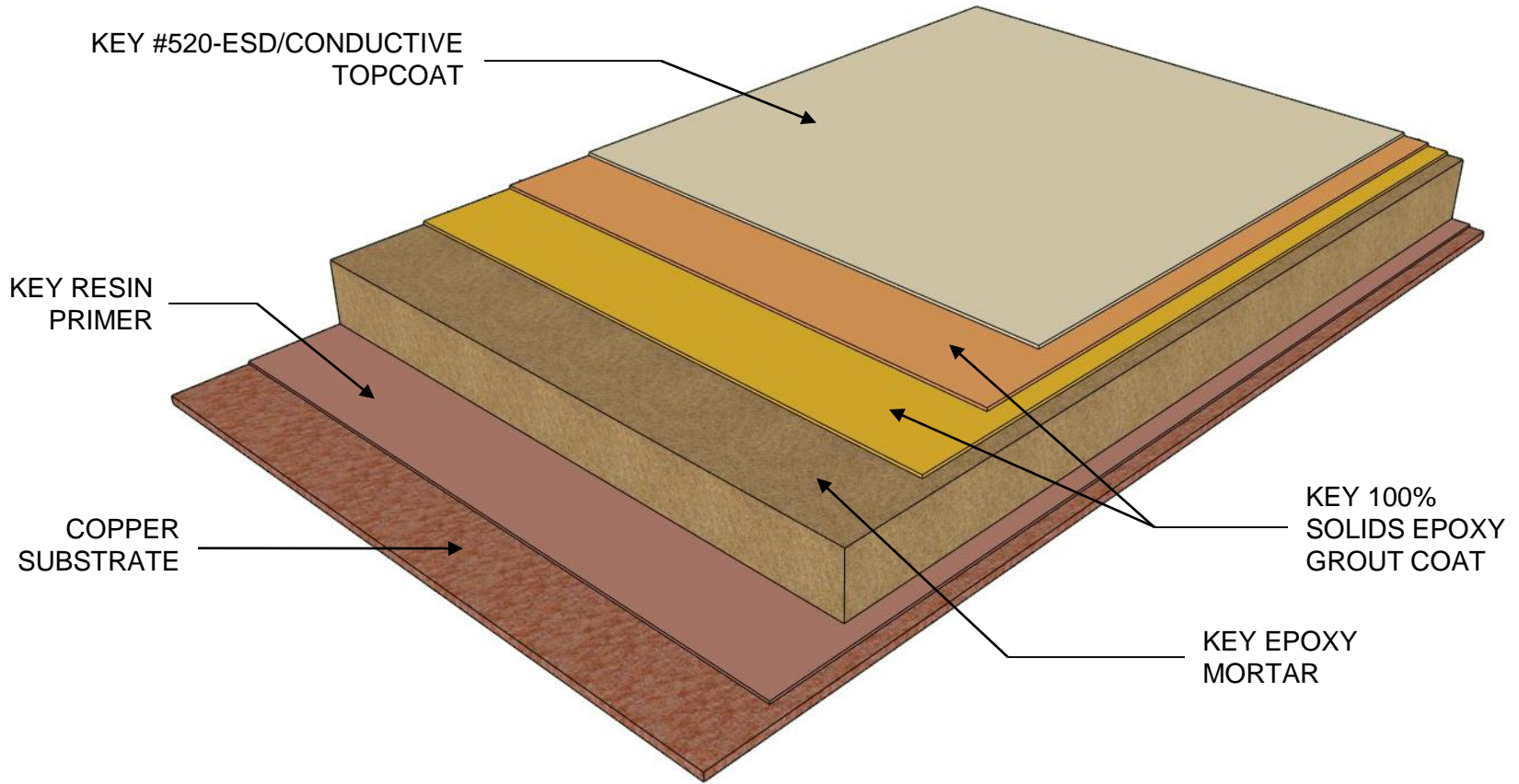
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[www.keyresin.com](http://www.keyresin.com)

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SCALE  
DATE:  
06/23/15

DETAIL:  
**COVE BASE ON STAINLESS STEEL**  
FILE #:  
**KEY-DTL-38**



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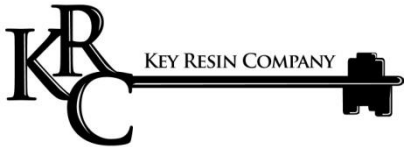
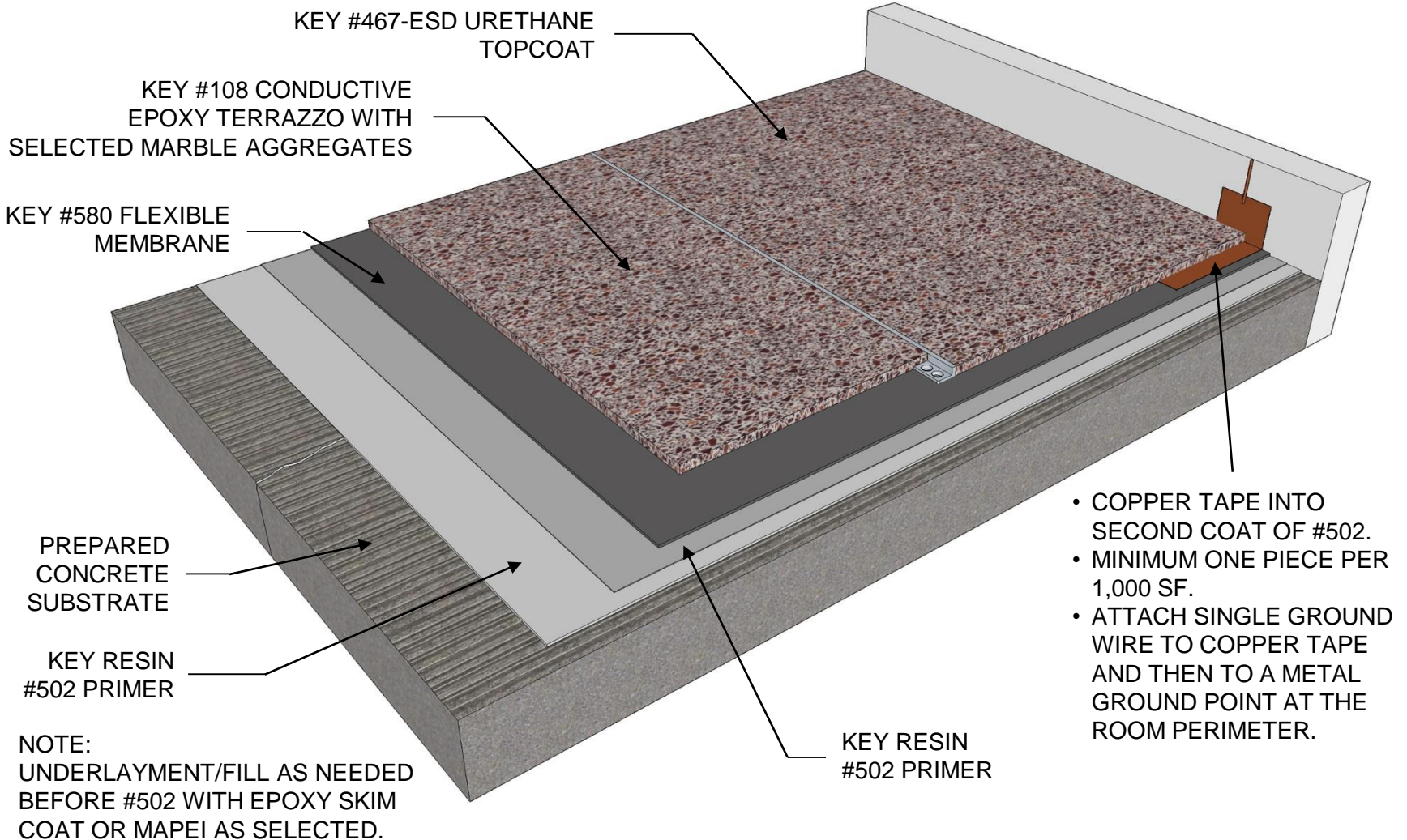
NOT TO  
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DATE:  
11/13/15

DETAIL: **TYPICAL MRI SUITE FLOORING DETAIL**

FILE #: **KEY-DTL-39**

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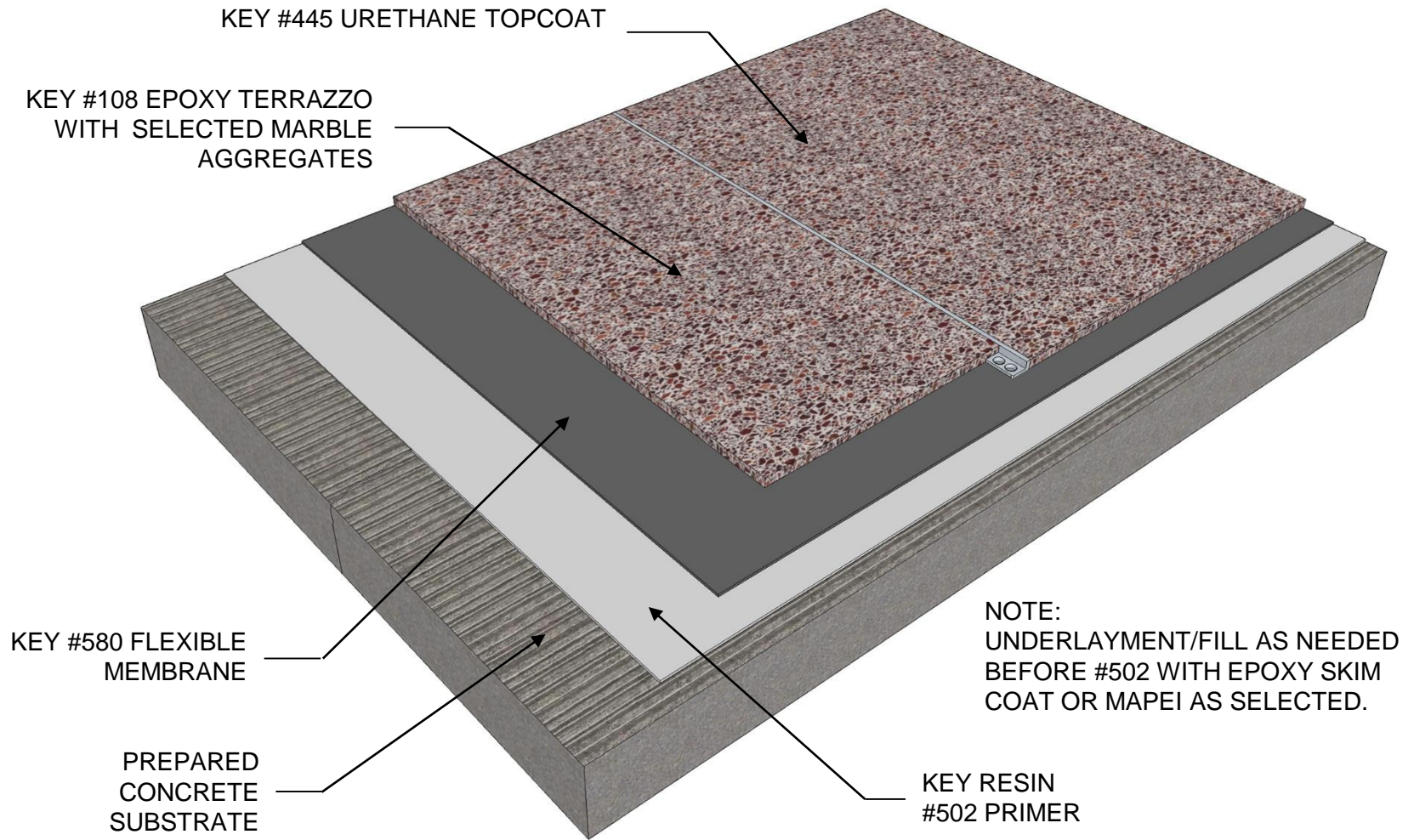
NOT TO SCALE

DATE:  
12/11/15

DETAIL: **KEY CONDUCTIVE EPOXY TERRAZZO**

FILE #: **KEY-DTL-40**

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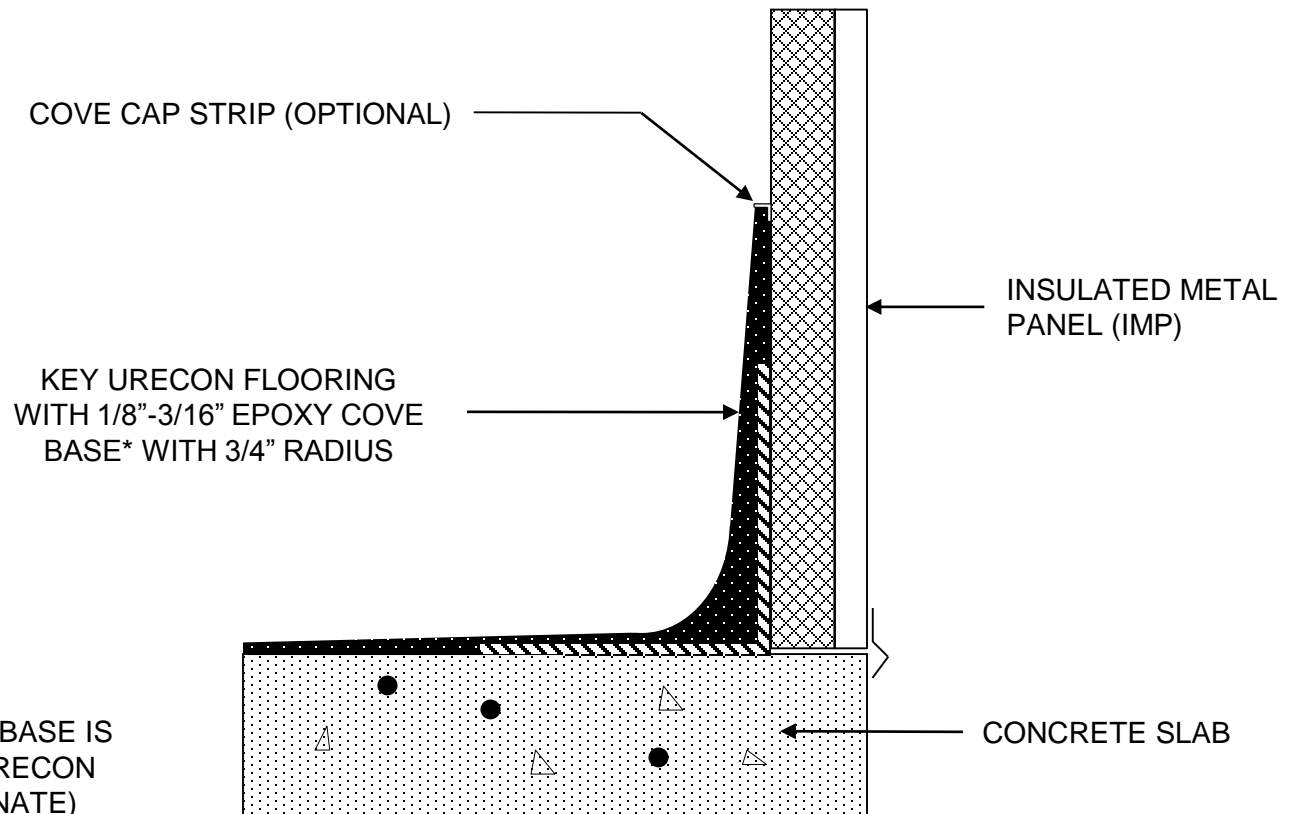
NOT TO  
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DATE:  
12/11/15

DETAIL:  
**KEY EPOXY TERRAZZO**

FILE #:  
**KEY-DTL-41**

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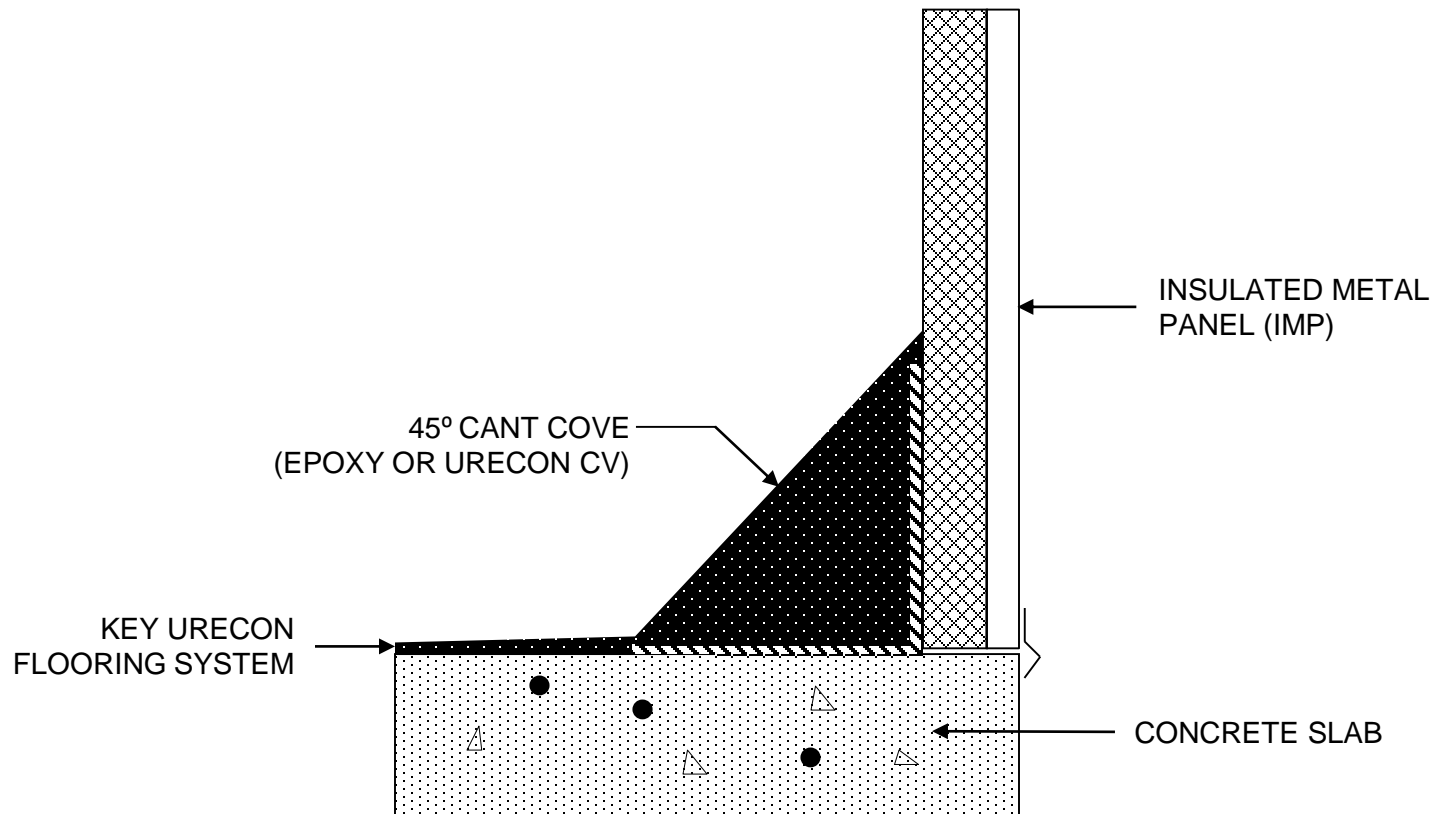


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SCALE  
DATE:  
12/14/15

DETAIL:  
**COVE DETAIL #9 – INTEGRAL WITH IMP**  
FILE #:  
**KEY-DTL-42**

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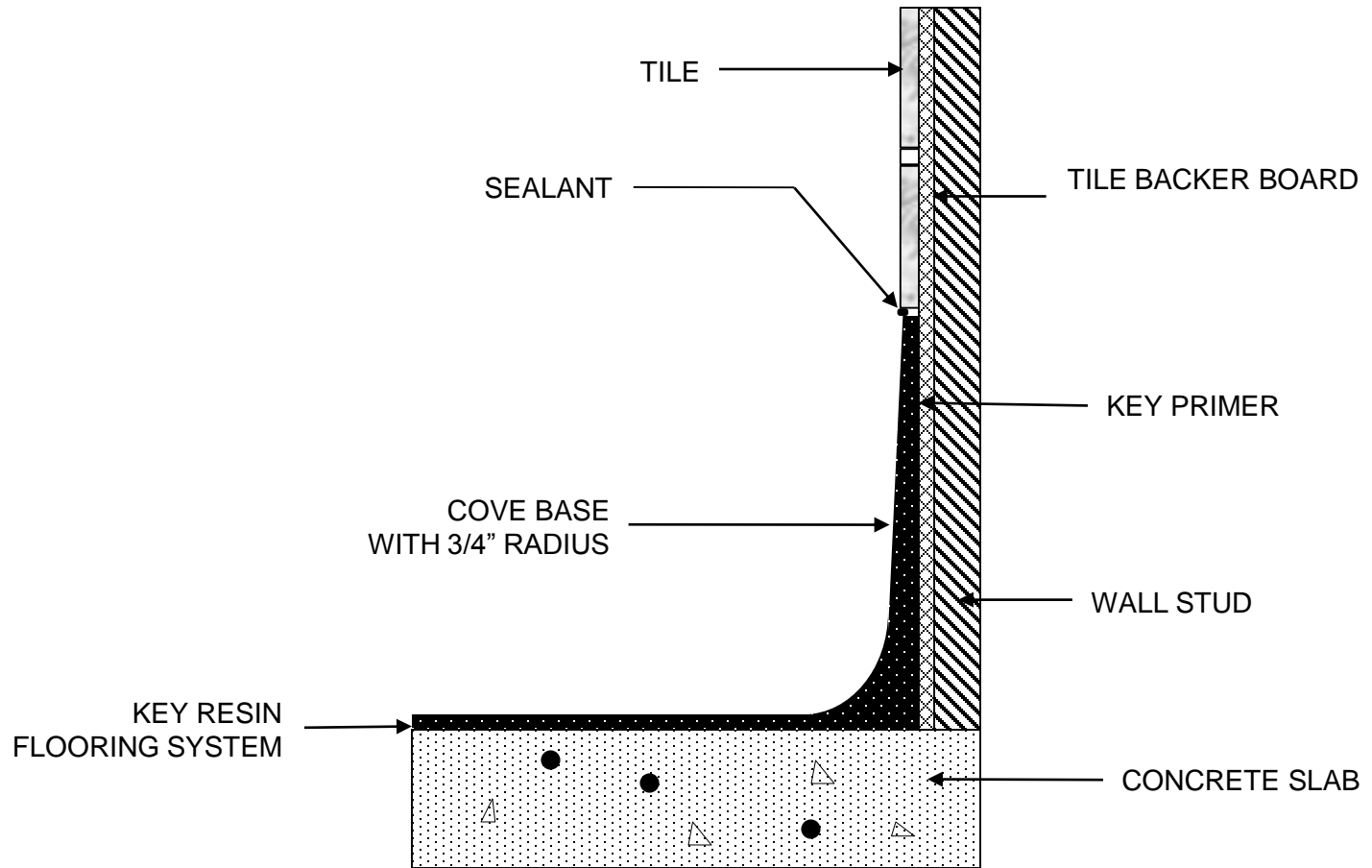
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DATE:  
12/14/15

DETAIL: **COVE DETAIL #10 – CANT WITH IMP**

FILE #: **KEY-DTL-42**

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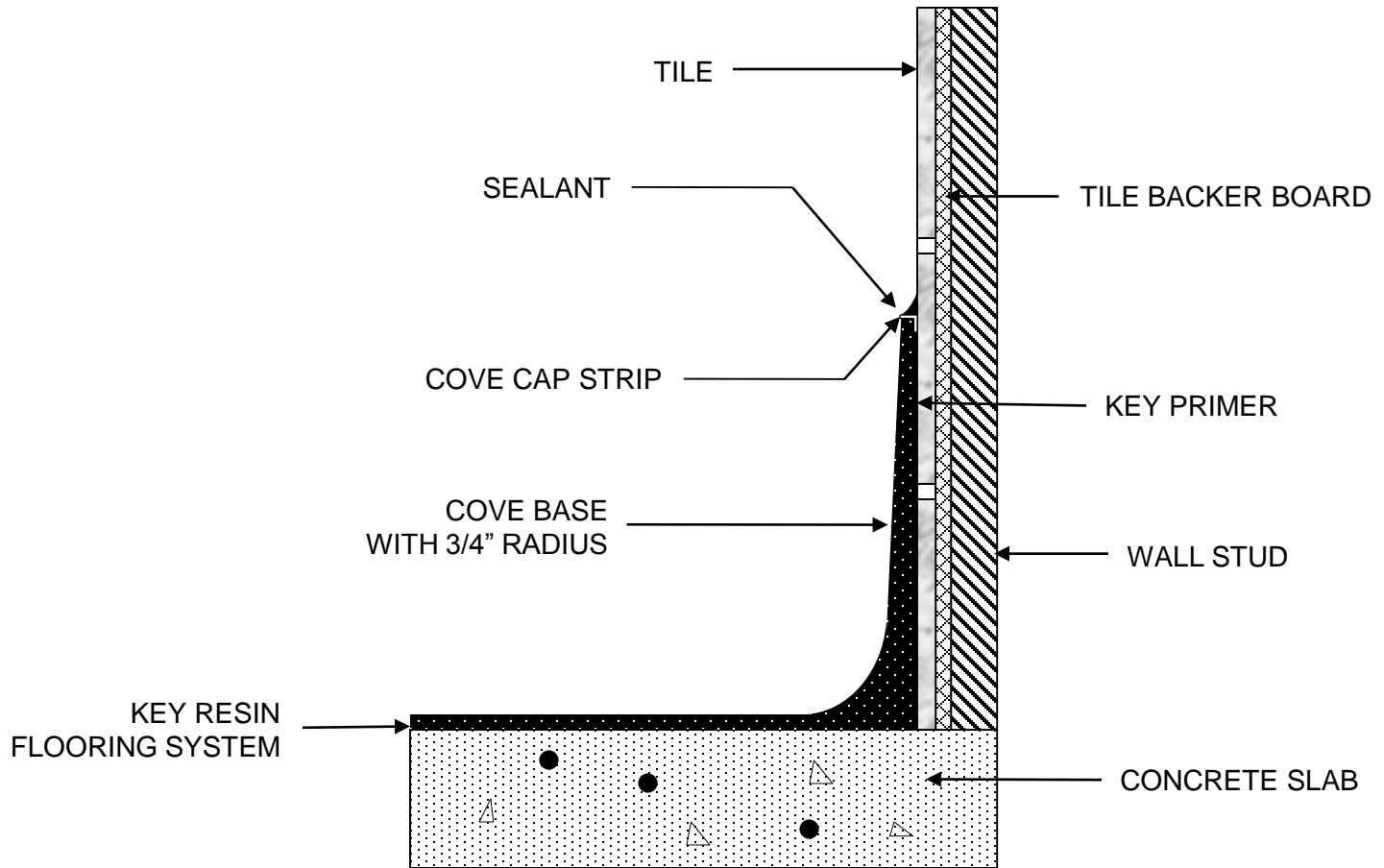


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SCALE  
DATE:  
02/02/16

DETAIL:  
**COVE DETAIL #11 – TILE WALL #1**  
FILE #:  
**KEY-DTL-43**

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NOTE:  
TILE TO RECEIVE COVE BASE MUST BE  
AGGRESSIVELY PREPARED TO REMOVE ALL GLOSS



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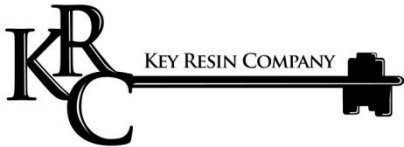
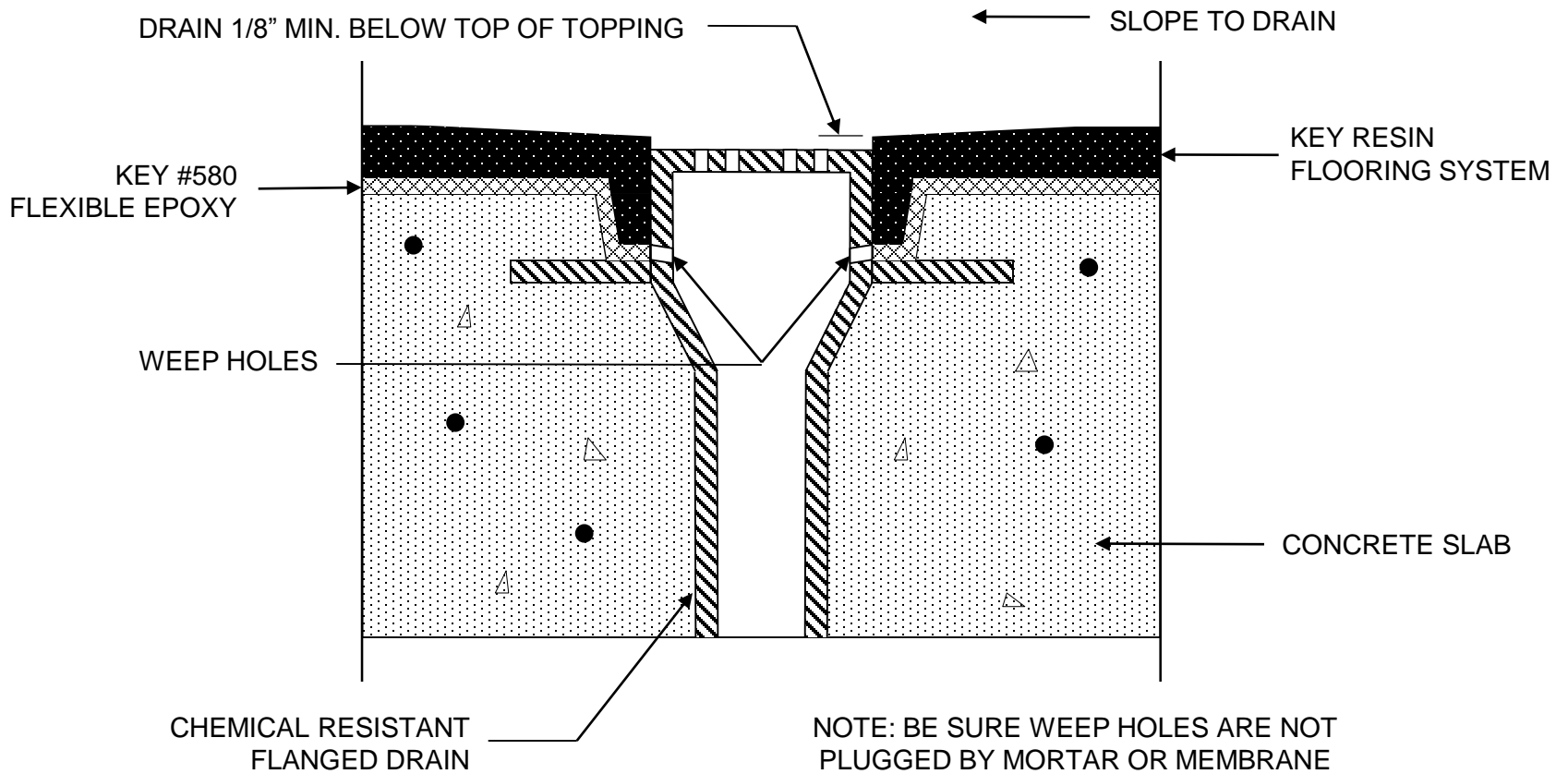
NOT TO  
SCALE

DATE:  
02/02/16

DETAIL:  
**COVE DETAIL #12 – TILE WALL #2**

FILE #:  
**KEY-DTL-44**

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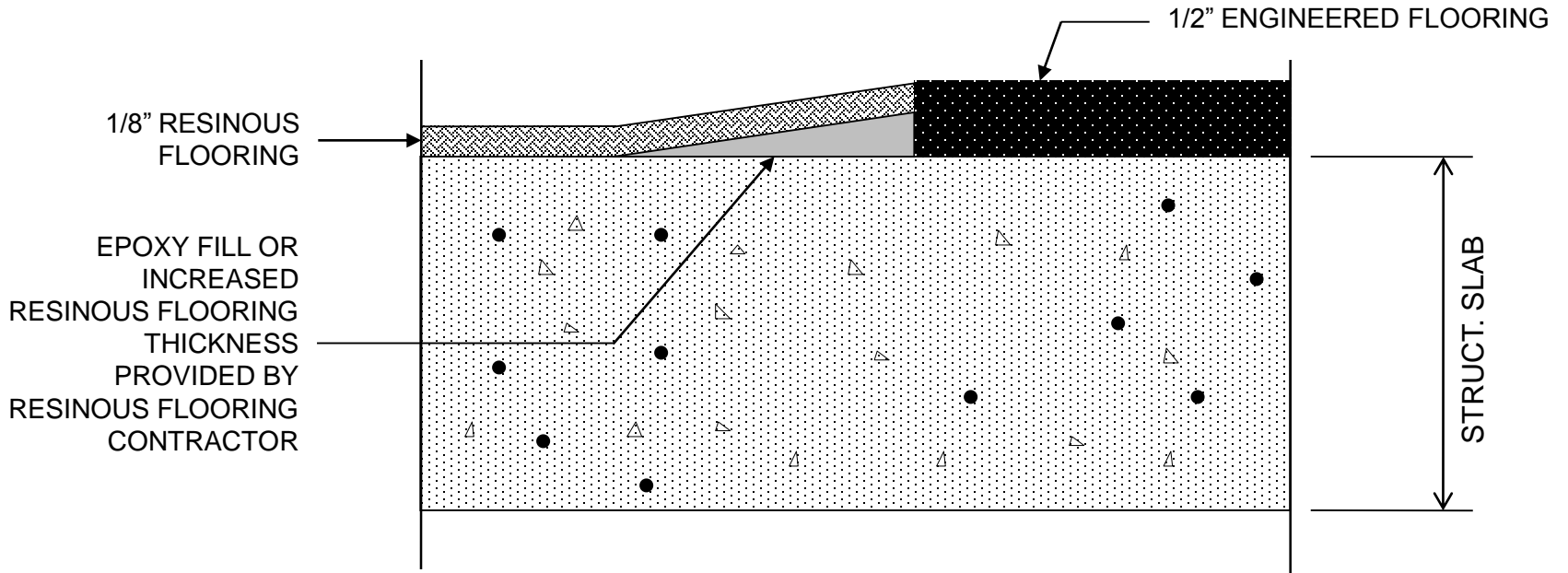
DATE:  
2/26/16

DETAIL: **FLANGED DRAIN WATERPROOFING**

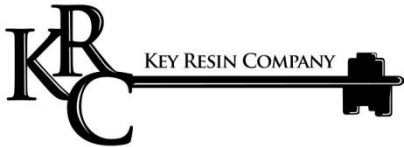
FILE #: **KEY-DTL-45**



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NOTE: ENGINEERED FLOORING TO BE INSTALLED FIRST.  
RESINOUS FLOORING TO FINISH AT PROPER ELEVATION.



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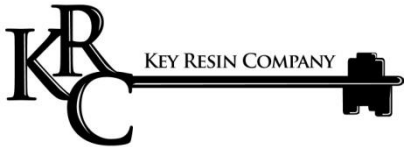
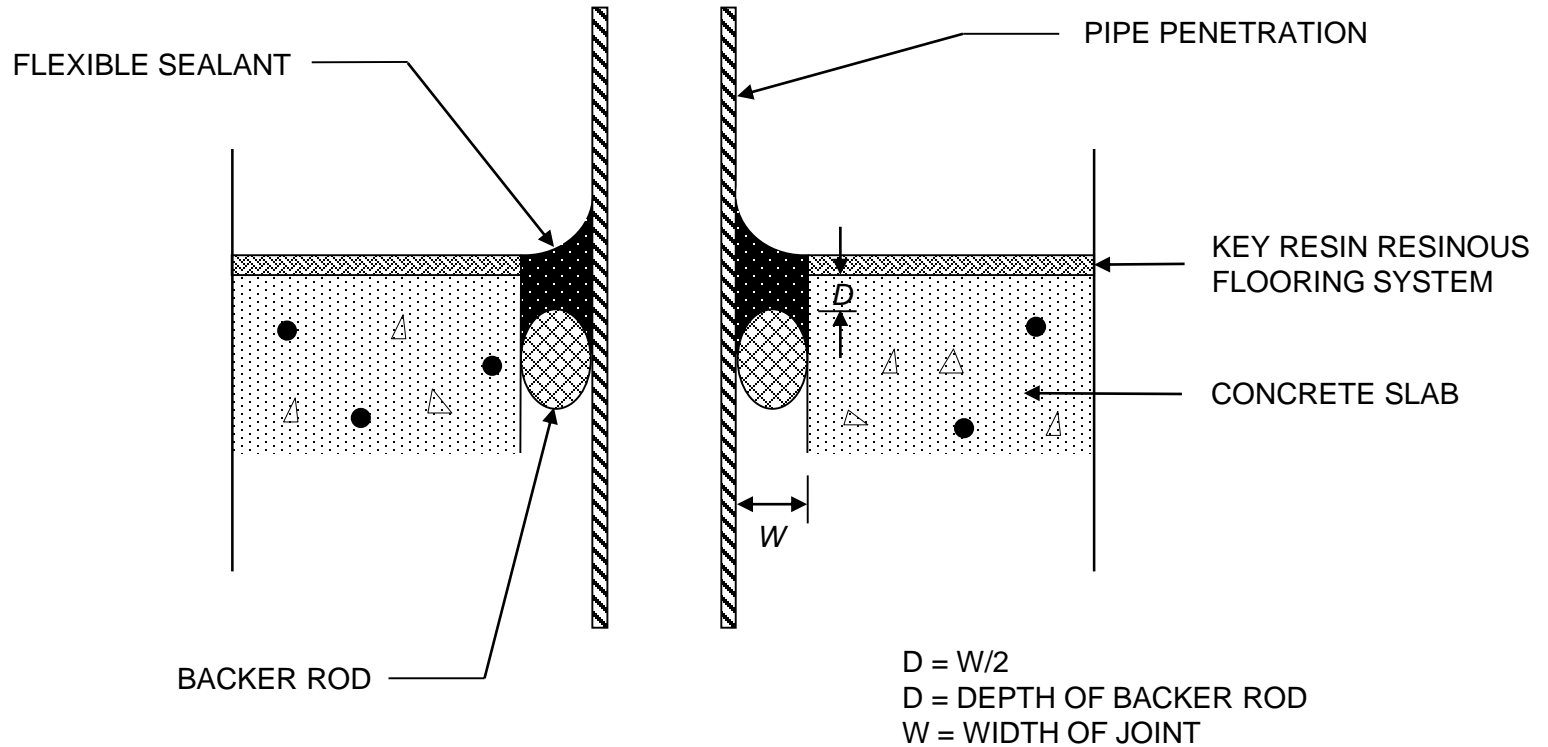
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DATE:  
03/09/16

DETAIL: **RESINOUS FLOORING TERMINATION**

FILE #: **KEY-DTL-46**

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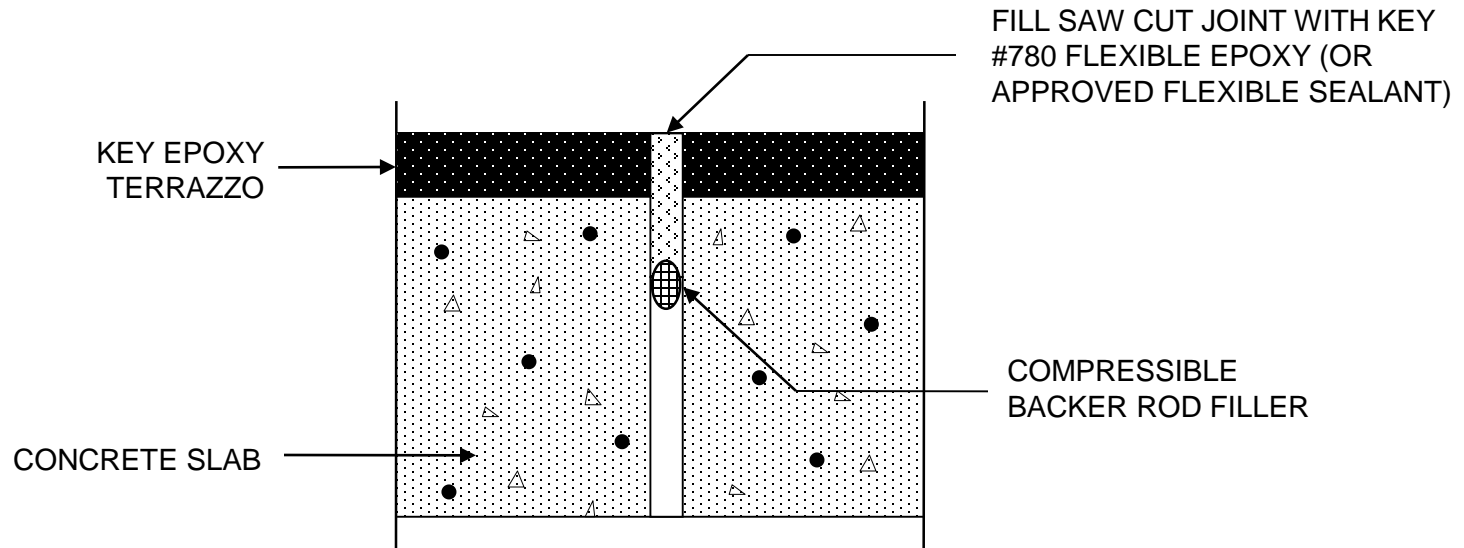
DATE:  
04/07/16

DETAIL:  
**PIPE PENETRATION DETAIL #2**

FILE #:  
**KEY-DTL-47**

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## STRIPLESS EXPANSION JOINT EPOXY TERRAZZO



NOTE: FOLLOWING CURE OF INSTALLED EPOXY TERRAZZO FLOOR, SAW CUT ALONG FLOOR EXPANSION JOINT TO RECEIVE FLEXIBLE EPOXY.



KEY RESIN COMPANY

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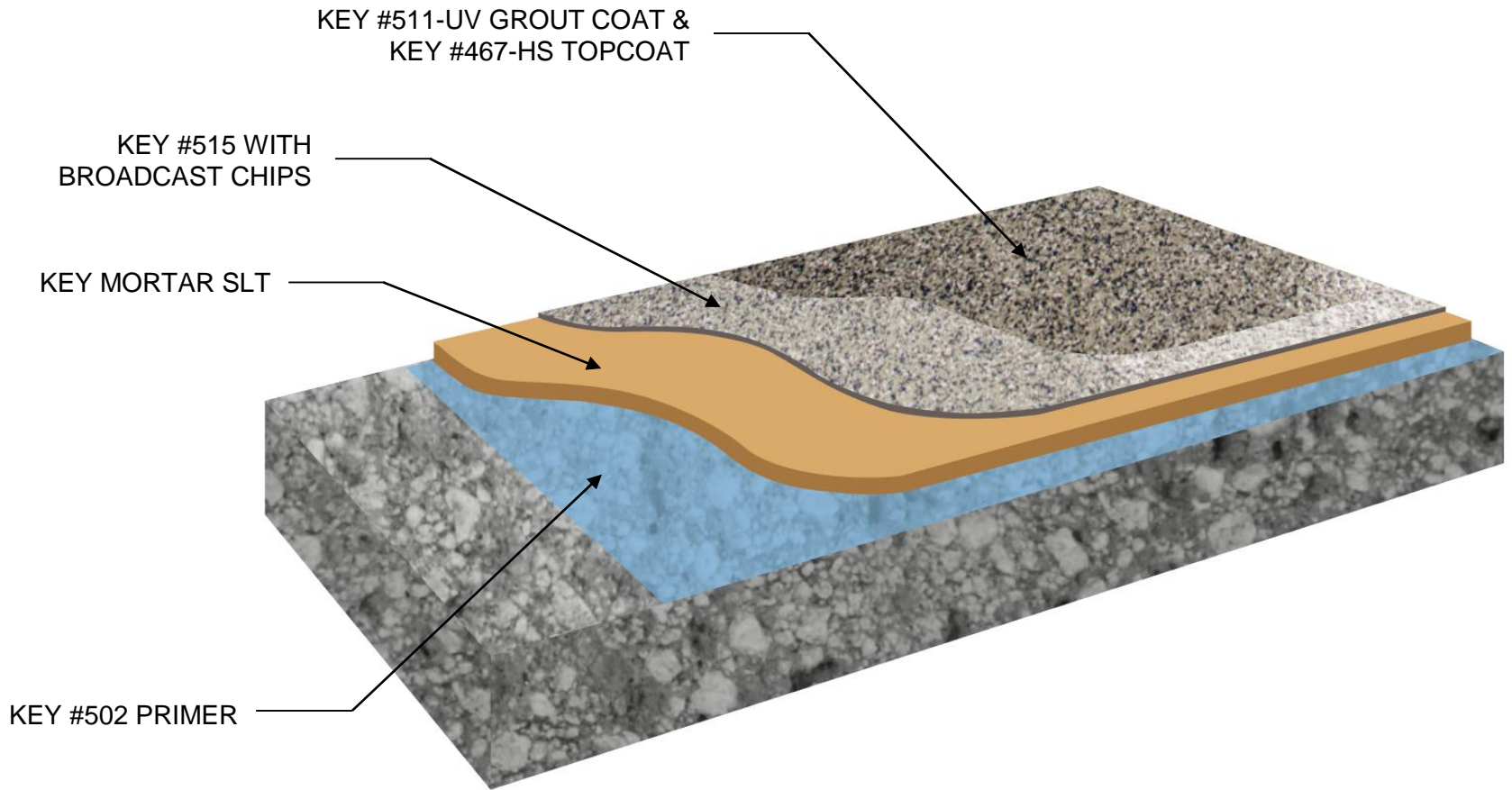
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DATE:  
09/24/16

DETAIL: **STRIPLESS EXPANSION JOINT DETAIL**

FILE #: **KEY-DTL-48**

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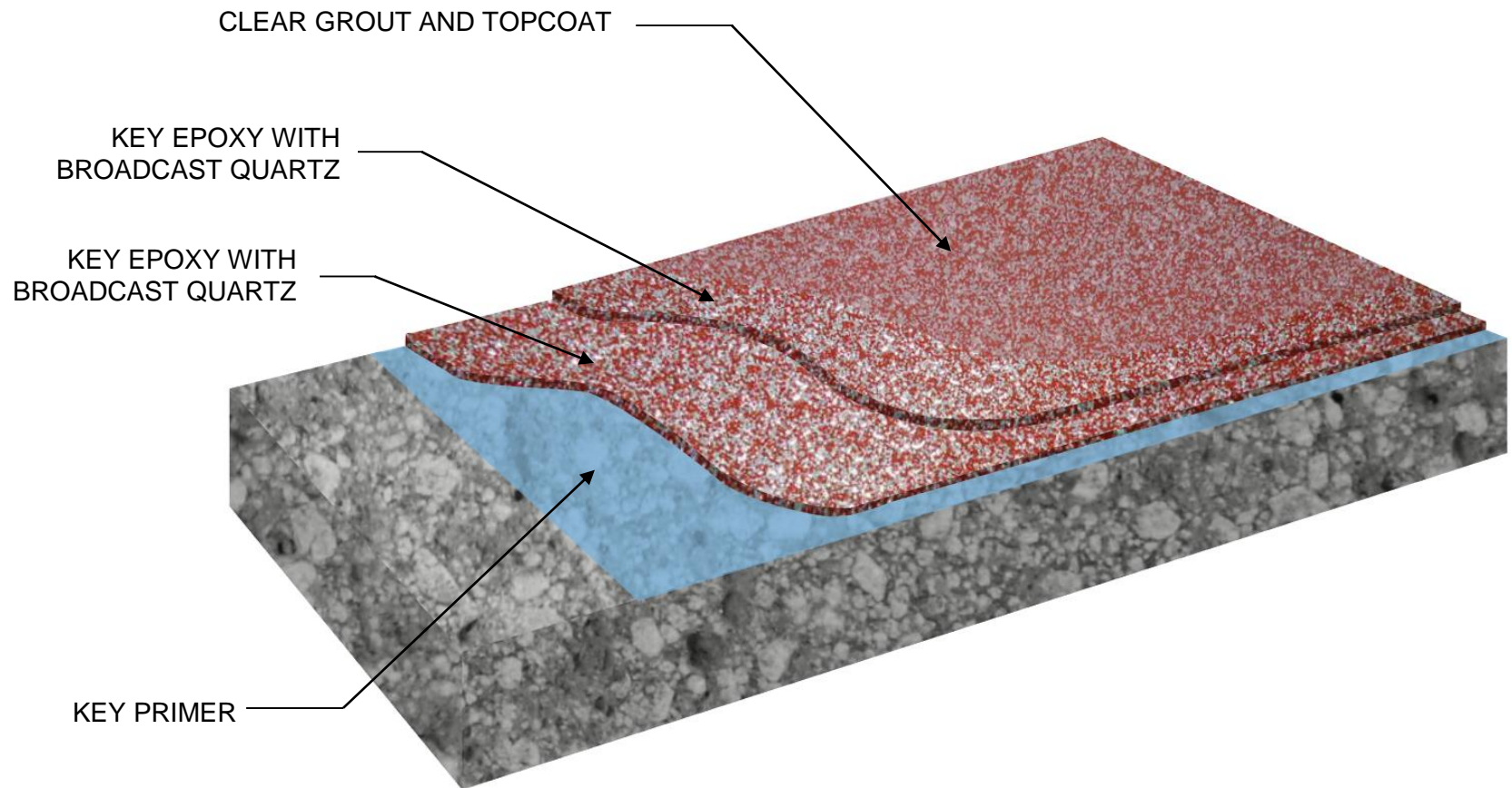
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DATE:  
**02/10/17**

DETAIL: **KEY MORTAR CHIP-100 (3/16")**

FILE #: **KEY-DTL-49**

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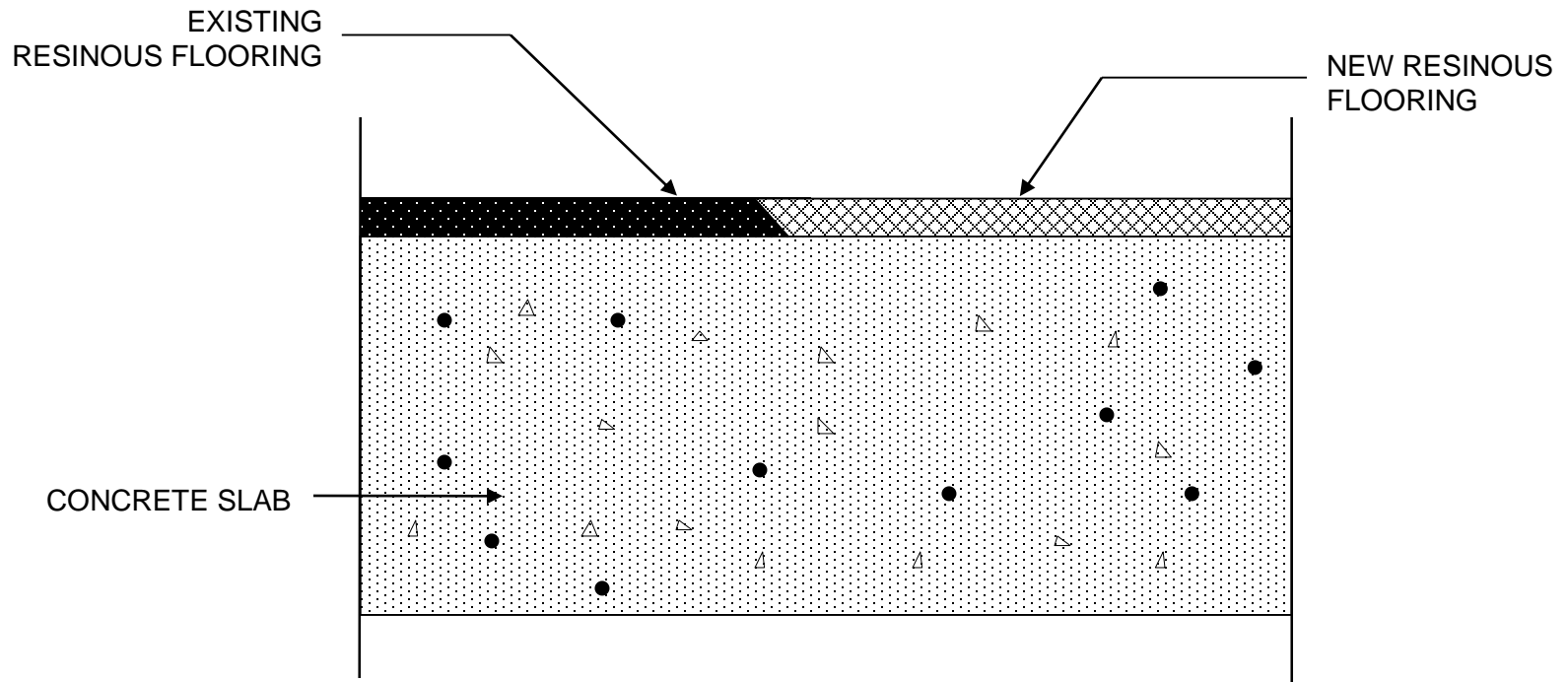
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SCALE

DATE:  
**02/20/17**

DETAIL:  
**KEY B-125 QUARTZ**

FILE #:  
**KEY-DTL-50**

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NOTE: GRIND EDGE OF EXISTING RESINOUS FLOOR TO CREATE A CLEAN BEVELED EDGE. INSTALL NEW RESINOUS FLOOR OVER EDGE OF EXISTING AND FINISH TO SAME ELEVATION.



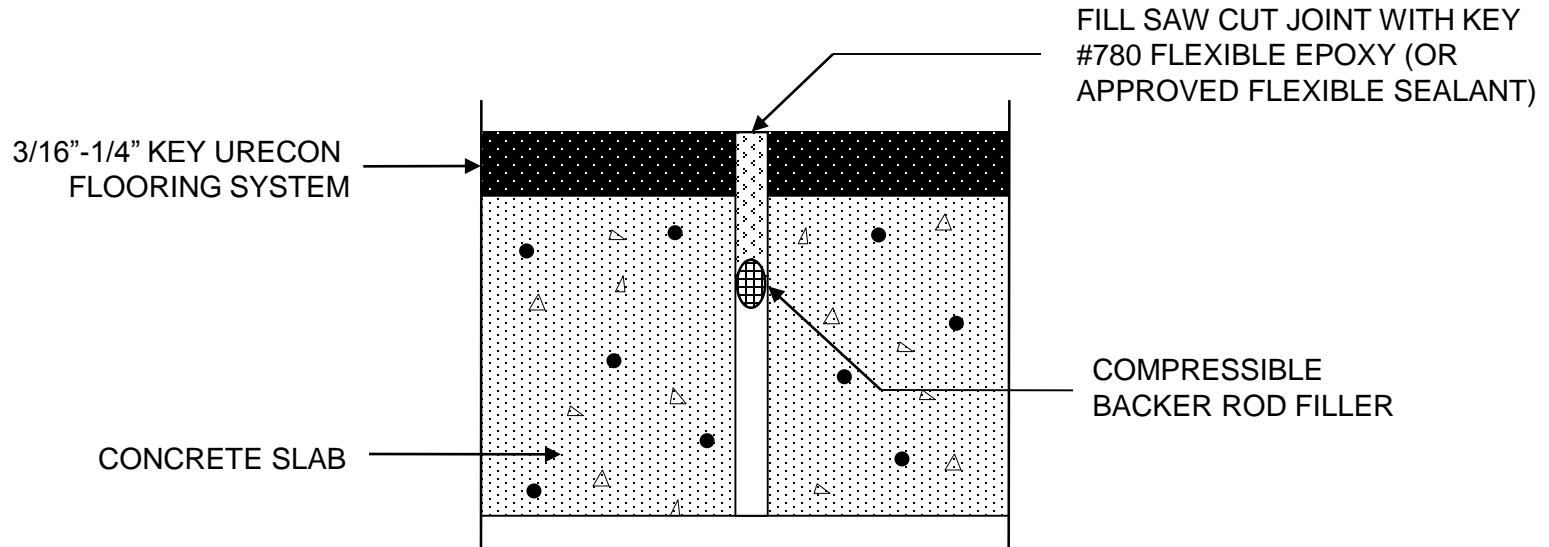
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DATE: 04/24/17

DETAIL: RESINOUS FLR/RESINOUS FLR TRANSITION  
FILE #: KEY-DTL-51

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## STRIPLESS EXPANSION JOINT URETHANE CEMENT



NOTE: FOLLOWING CURE OF INSTALLED URETHANE CEMENT FLOOR, SAW CUT ALONG FLOOR EXPANSION JOINT TO RECEIVE FLEXIBLE EPOXY.



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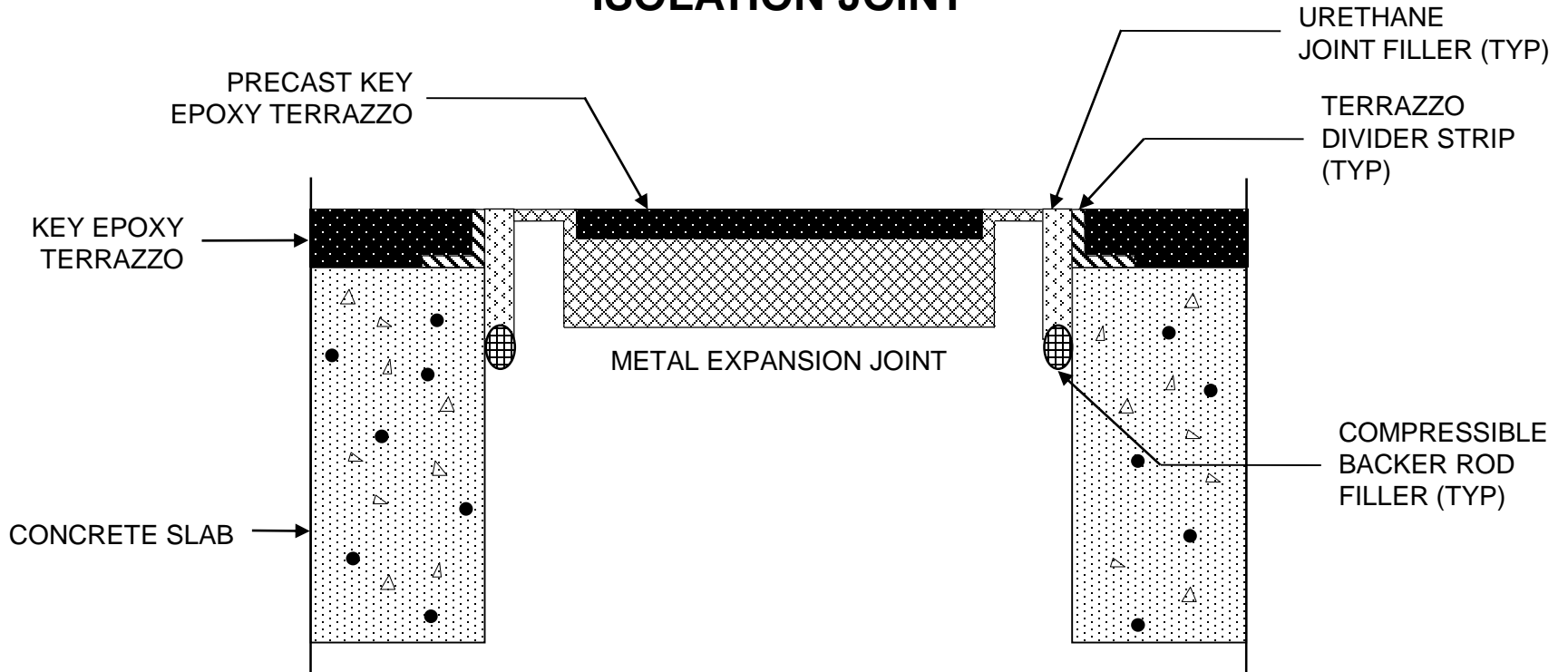
DATE:  
05/17/17

DETAIL:  
**STRIPLESS EXPANSION JOINT DETAIL**

FILE #:  
**KEY-DTL-52**

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## EXPANSION / ISOLATION JOINT



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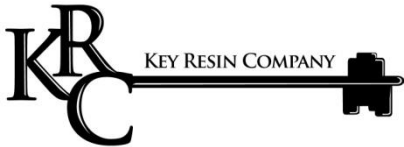
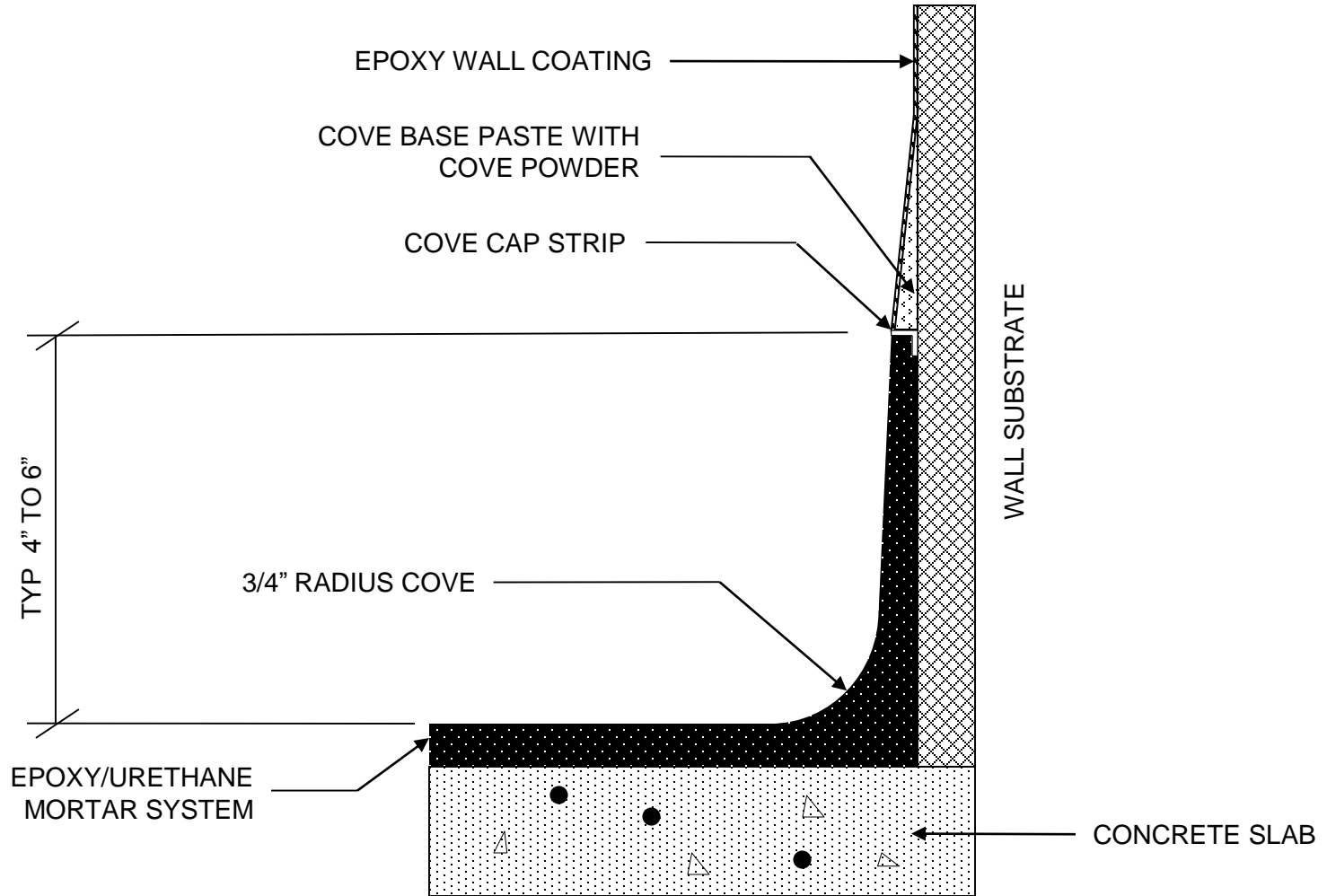
DATE:  
06/07/17

DETAIL:  
JOINT DETAILS

FILE #:  
KEY-DTL-53



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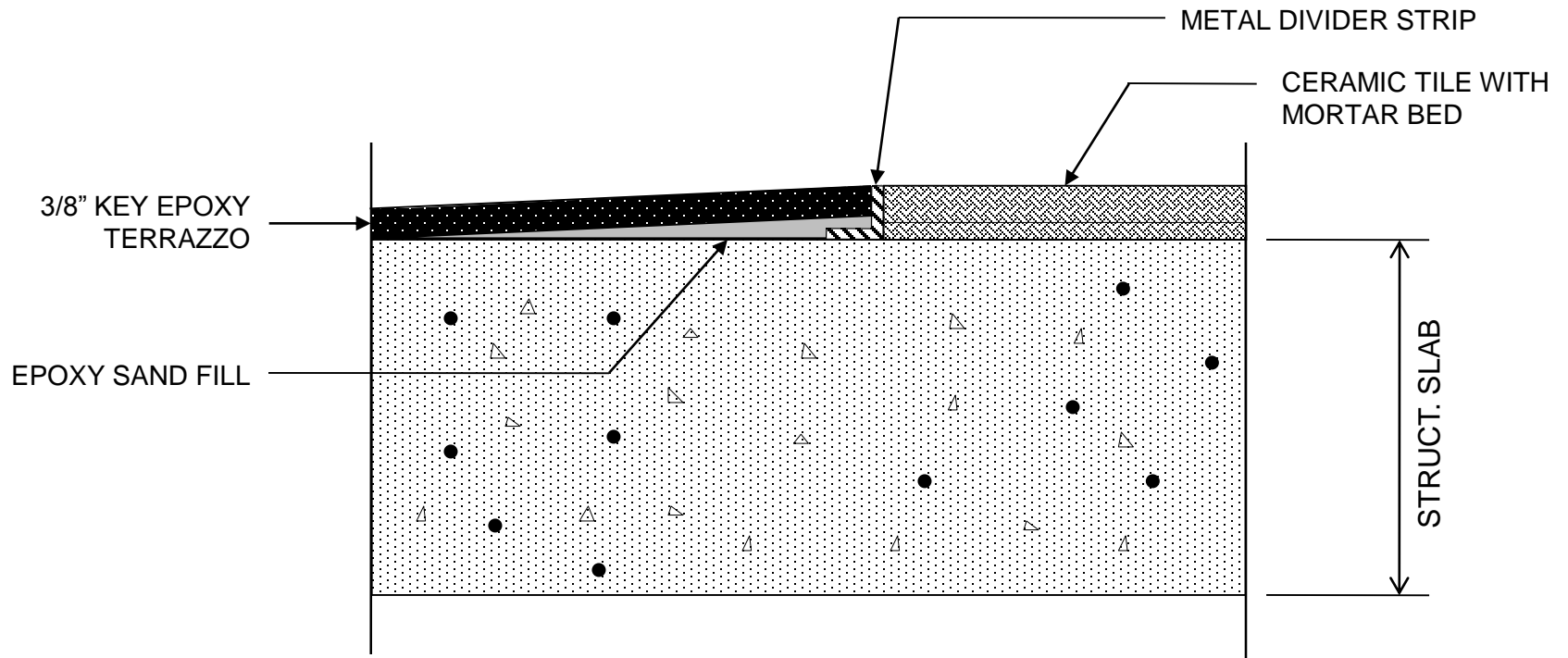
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DATE:  
**06/15/17**

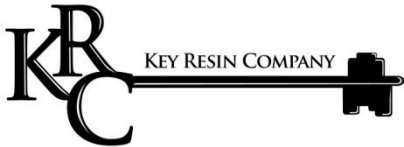
DETAIL: **COVE BASE TRANSITION TO WALL SYS.**

FILE #: **KEY-DTL-54**

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NOTE: CERAMIC TILE TO BE INSTALLED FIRST.  
EPOXY TERRAZZO TO FINISH AT PROPER ELEVATION.



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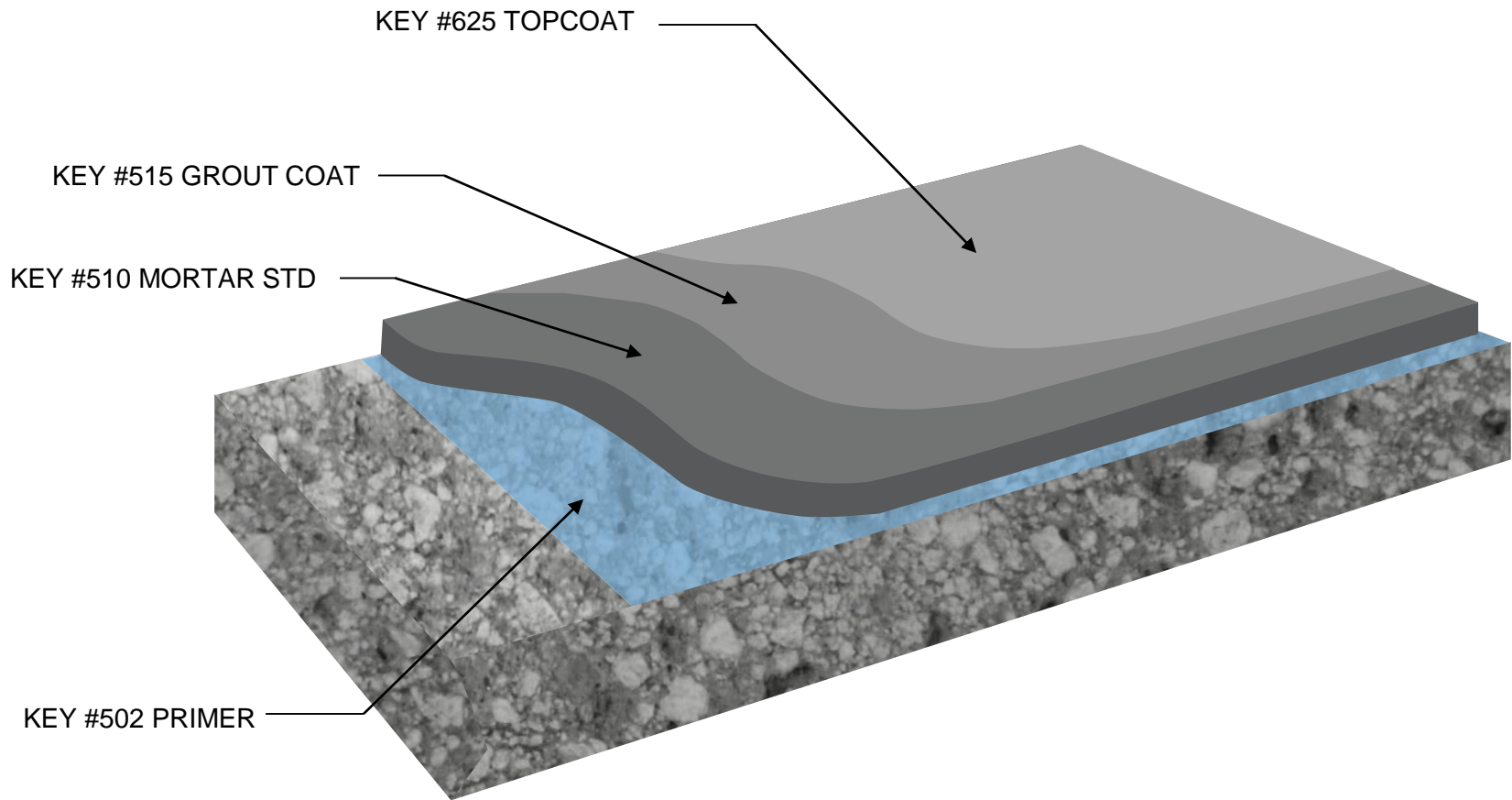
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SCALE

DATE:  
07/13/17

DETAIL:  
EPOXY TERRAZZO, TILE TERMINATION

FILE #:  
KEY-DTL-55

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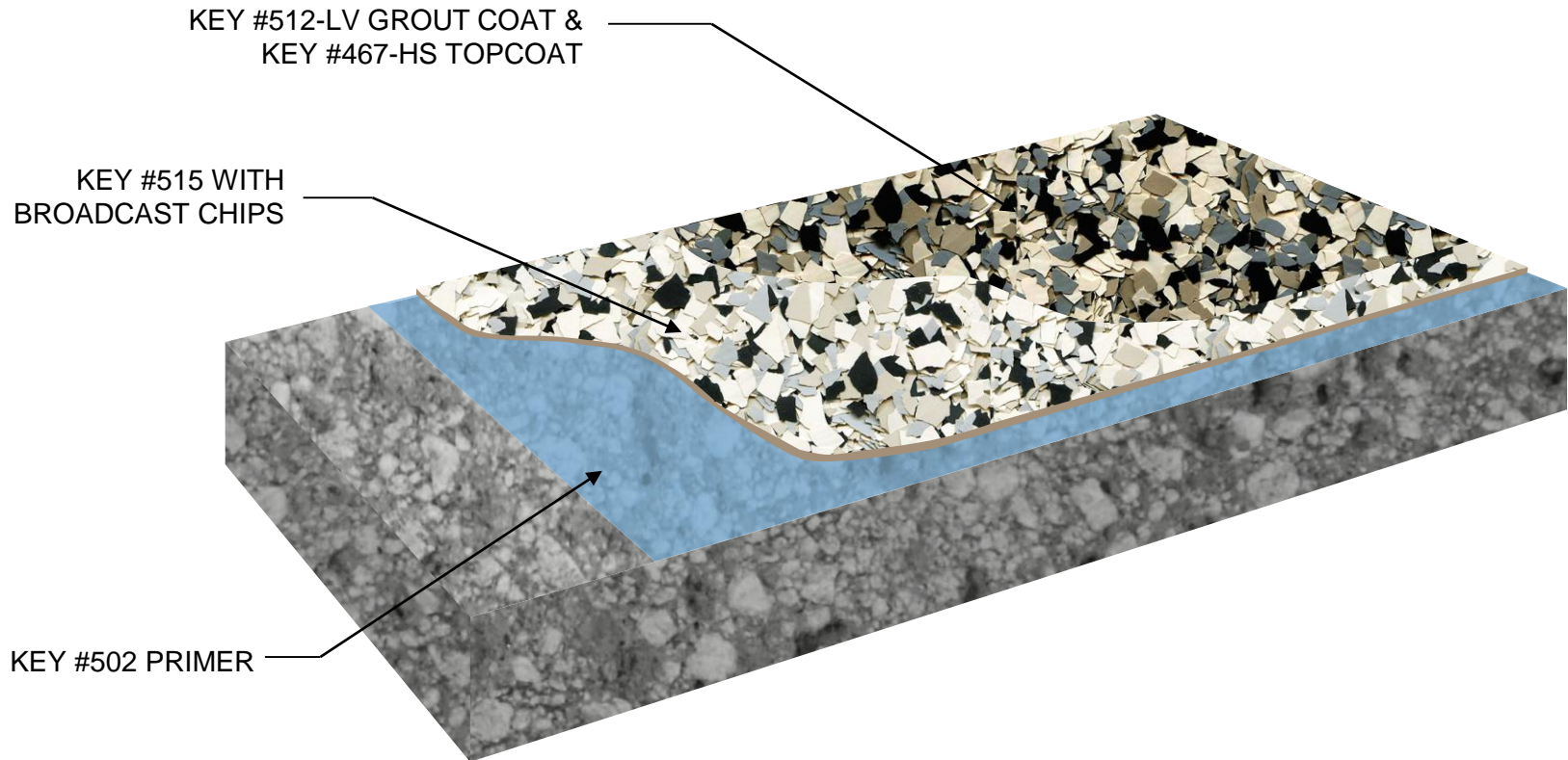
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DATE:  
11/01/17

DETAIL: **KEY MORTAR STD (1/4")**

FILE #: **KEY-DTL-56**

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NOT TO  
SCALE

DATE:  
12/01/17

DETAIL:  
**KEY CHIP-100**

FILE #:  
**KEY-DTL-57**