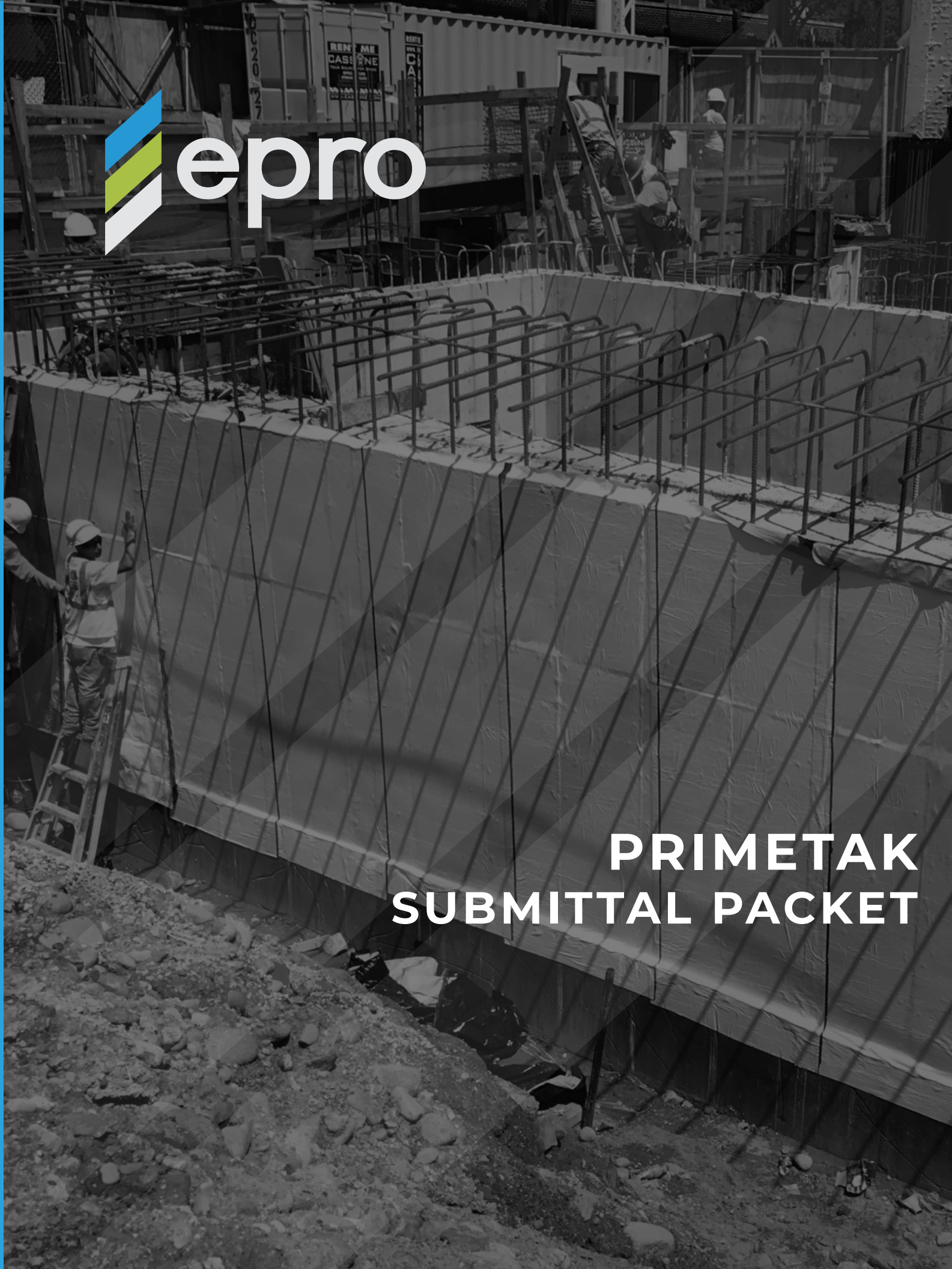
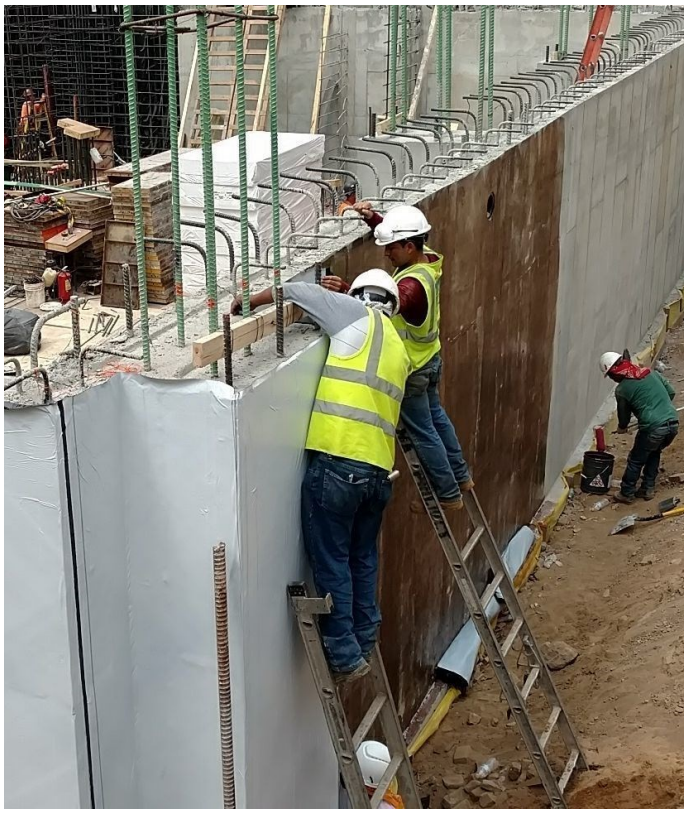


epro

PRIMETAK
SUBMITTAL PACKET

PrimeTak

Self-adhesive, waterproofing membrane and vapor retarder
Strong, pliable rubberized asphalt membrane with HDPE backing



PrimeTak self-adhesive membrane

PrimeTak is a self-adhesive 60 mil thick “peel and stick” post-applied waterproofing and vapor retarder membrane. **PrimeTak** consists of a durable 4 mil cross-laminated, high density polyethylene (HDPE) backing bonded to 56 mils of specially formulated highly adhesive rubberized asphalt.

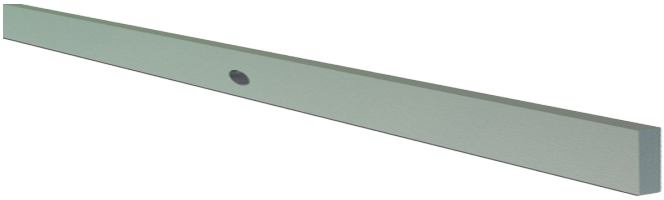
PrimeTak is a post-applied membrane used on concrete foundation walls, split slabs, tunnels, plaza decks, parking garages and related applications where waterproofing is critical. **PrimeTak** may also be used on wood, concrete masonry (CMU) structures and Insulated Concrete Forms (ICF).

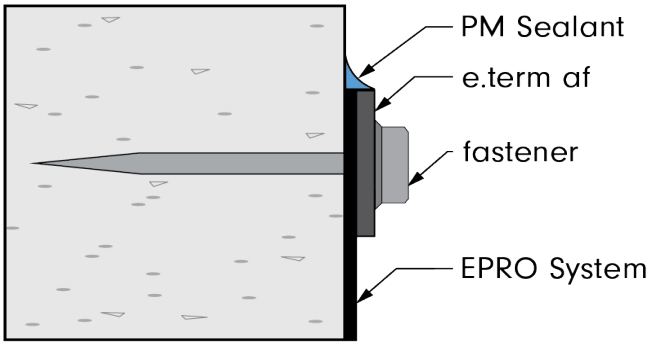
Preferred choice for superior waterproofing

- **Self-adhesive.** Application is fast and simple. PrimeTak adhered over liquid adhesive bonds to the substrate to prevent the passage of water and vapor.
- **Versatile application.** Adheres to multiple substrates including wood, CMU and ICF.
- **Cold applied.** No torches or hot mastics required for application. Safe and easy.
- **Durable.** High density polyethylene backing provides superior puncture resistance, tensile strength and hydrostatic pressure resistance to the membrane.
- **Low temperature application.** Rubberized asphalt adhesive is specially formulated to remain adhesive in temperature applications down to 25°F (-4°C)
- **Preformed sheet membrane.** PrimeTak is a complete system with factory controlled uniform 60 mil thickness.

EPRO Services Inc. Kansas City, MO 64129
www.eproinc.com tel 800.882.1896

e.term af





Product Description

Basic Use: e.term af is a 90 mil (2.3 mm) thick flat termination bar made from 6063-T6 extruded aluminum with 1/4" x 3/8" slotted holes 6-inches (150 mm) on-center. It provides an excellent solution for top terminations with below-grade waterproofing membranes and vapor barrier systems. e.term af protects the waterproofing top edge and will secure drain panels and protection boards.

Composition: 90 mil (2.3 mm) thick, 1-inch wide, extruded 6063-T6 aluminum.

Benefits

- Performs as a termination bar.
- Unique design prevents delamination of the waterproofing or vapor barrier membrane system.
- Prevents top edge damage of the covered membrane.

Limitations

- A sealant bead or reinforcement detail is required on the top edge of the termination bar

Technical Data

Coverage: Bar: 10 linear feet (3.1 meters)
Tube: 50 bars, 500 linear feet (152.4 meters)

Storage and Handling: Store raised off the floor away from moisture.

Specification Writer: Contact EPRO before writing specifications on this product. EPRO System selection should be reviewed in order to meet project specific site conditions.

Installation

Surface Preparation: All surfaces shall be prepared in accordance to manufacturer's specifications. Substrate shall be smooth and uniform to allow for consistent fastening.

Application: Install e.term af at the top edge of material or through waterproofing membrane and fasten every 12-inches (300 mm) on-center with appropriate mechanical or power actuated fasteners using 1.25" (32 mm) galvanized shot pins or nylon-mushroom cap galvanized nails. Seal top edge of term bar and 1/8" (3 mm) beyond fastener head with PM Sealant or e.roll reinforcement detail.

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Bar Size: 0.09" x 1" x 10' (2.3 mm x 25 mm x 3.1 m), 1.1 lbs (0.5 kg)
Tube Size: 50 strips, 500 linear feet (152.4 m), 55 lbs (24.9 kg)

Equipment

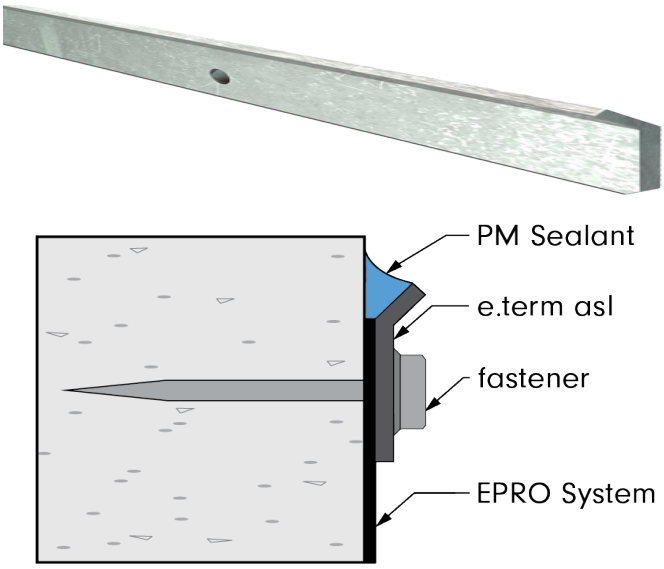
Fasteners: Galvanized or Stainless-Steel (min. 1.25" | 32 mm)
- Shot pins (mechanical or powder-actuated fastening)
- Nylon-mushroom cap nails (drilled manual fastening)

Sealant:
- PM Sealant - STPE sausage-packaged sealant.
- e.roll - Single-component polymer-modified anionic asphalt emulsion.
- e.poly - Polyester reinforcing fabric.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

e.term asl



Product Description

Basic Use: e.term asl is a 75 mil (1.9 mm) thick termination bar with an angled sealant ledge made from 6063-T6 extruded aluminum with 1/4" x 3/8" slotted holes 6-inches (150 mm) on-center. It provides an excellent solution for top terminations with below-grade waterproofing membranes and vapor barrier systems. e.term asl protects the waterproofing top edge and will secure drain panels and protection boards.

Composition: 75 mil (1.9 mm) thick, 1-inch wide, extruded 6063-T6 aluminum.

Benefits

- Performs as a termination bar.
- Unique design prevents delamination of the waterproofing or vapor barrier membrane system.
- Angled sealant edge secures sealant at termination edge.
- Prevents top edge damage of the covered membrane.

Limitations

- A sealant bead or reinforcement detail is required on the top edge of the termination bar

Technical Data

Coverage: Bar: 10 linear feet (3.1 meters)
Tube: 50 bars, 500 linear feet (152.4 meters)

Storage and Handling: Store raised off the floor away from moisture.

Specification Writer: Contact EPRO before writing specifications on this product. EPRO System selection should be reviewed in order to meet project specific site conditions.

Installation

Surface Preparation: All surfaces shall be prepared in accordance to manufacturer's specifications. Substrate shall be smooth and uniform to allow for consistent fastening.

Application: Install e.term asl at the top edge of material or through waterproofing membrane with the angled sealant ledge facing up and fasten every 12-inches (300 mm) on-center with appropriate mechanical or power actuated fasteners using 1.25" (32 mm) galvanized shot pins or nylon-mushroom cap galvanized nails. Seal top edge of term bar and 1/8" (3 mm) beyond fastener head with PM Sealant or e.roll reinforcement detail.

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Bar Size: 0.075" x 1" x 10' (1.9 mm x 25 mm x 3.1 m), 1.0 lbs (0.45 kg)
Tube Size: 50 strips, 500 linear feet (152.4 m), 50 lbs (22.7 kg)

Equipment

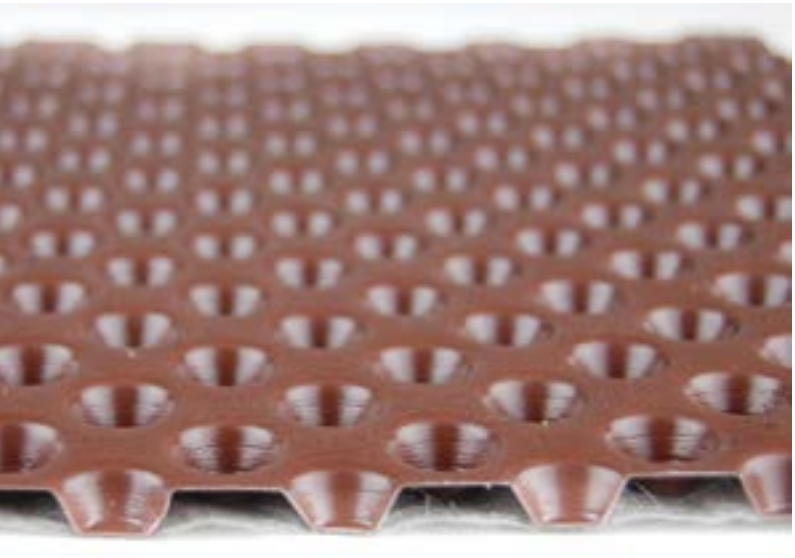
Fasteners: Galvanized or Stainless-Steel (min. 1.25" | 32 mm)
- Shot pins (mechanical or powder-actuated fastening)
- Nylon-mushroom cap nails (drilled manual fastening)

Sealant:
- PM Sealant - STPE sausage-packaged sealant.
- e.roll - Single-component polymer-modified anionic asphalt emulsion.
- e.poly - Polyester reinforcing fabric.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

e.drain



Product Description

Basic Use: e.drain has been specifically designed to meet the drainage and protection requirements of below grade waterproofing applications. E.Series utilizes e.drain in applications for over excavated below grade foundation walls to effectively eliminate the buildup of nuisance water, provide another layer of waterproofing redundancy, and provide protection during backfill. e.drain is also applied to shoring as a base course for e.spray. When concrete is applied, the e.drain and e.spray become integrated into the below grade foundation walls, forming a uniform composite system that directs water away and provides a seamless waterproofing membrane.

Composition: e.drain features a lightweight three-dimensional, highly flexible high density polyethylene (HDPE) core and a polypropylene geotextile filter fabric. The filter fabric is bonded to the dimples of the HDPE core.

Benefits

- High density polyethylene core provides a high level of chemical resistance and performs as a waterproofing barrier
- Unique shallow dimple design allows for a uniform application of e.spray
- For shoring applications, e.drain allows waterproofing to become fully integrated into and bonded to the building foundation wall
- Variable widths (6' and 8') provide minimal overlapping of seams and increase installation efficiency
- Suitable for both cast in place concrete and shotcrete

Limitations

- High risk projects may require more redundancy
- Not ideal in backfill applications greater than 20 feet

Technical Data

Properties: See physical properties table

Coverages: 6' and 8' wide rolls cover 394 and 527 square feet, respectively, not including overlaps or waste

Specification Writer: Contact EPRO before writing specifications on this product. E.Series system assemblies should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Rolls should be inspected for cosmetic damage prior to application. Substrate must be inspected prior to application to make certain it is in accordance with manufacturer's requirements.

Application: Please refer to manufacturer's specifications. Drainage panels may run horizontally or vertically and must be secured to the wall using manufacturer's approved fasteners and subsequent detailing methods.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Roll: 6' x 65.7', 60 lbs. or 8' x 65.7', 73 lbs.

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Secure with shot pins using power-actuated fastener or by hand.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Ecodrain-E.

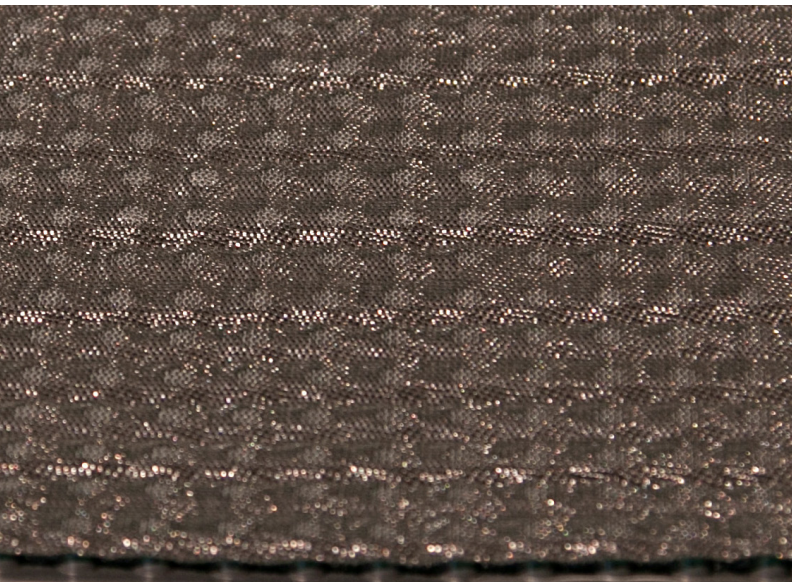
epro | e.drain

Typical Physical Properties

Physical Property	Test Method	Value
Dimpled Core		
Core		HDPE
Core Material Thickness		30 mil
Color		Brown
Dimple Height	ASTM D1777-96	.31"
Compressive Strength	ASTM D6364-06	5,200 lbs./ft²
Flow rate	ASTM D4716	5.1 gal./min./ft.
Filter Fabric		
Grab Tensile	ASTM D4632-91	130 lbs.
CBR Puncture Resistance	ASTM D6241	40 lbs.
Apparent Operating Size	ASTM D4751-99	70 sieve size (.0212 mm)
Water Flow Rate	ASTM D4491-99	55 gpm/ft²
UV Resistance	ASTM D4355-92	70% (500 hrs)

Dimensions: 6' x 65.7', 8' x 65.7'
Weight: 6' rolls = 60 lbs., 8' rolls = 73 lbs.

e.drain 9000



Product Description

Basic Use: e.drain 9000 is applied in horizontal above grade waterproofing applications over plaza decks, planters, green roofs, and balconies. e.drain 9000 prefabricated drainage composite is designed to protect the E.Series system assembly, while effectively eliminating the buildup and ponding of water against the membrane assembly.

Composition: e.drain 9000 features a lightweight three-dimensional, high-compressive strength polypropylene core and bonded woven geotextile fabric. The bonded filter fabric allows water to pass freely into the molded drain while preventing soil particles from entering and clogging the core structure.

Benefits

- Provides extremely high compressive strength to meet a wide variety of project conditions
- Woven geotextile retains soil and sand while allowing filtered water to pass into drainage core
- Maintains flexibility in freezing temperatures

Limitations

- Long-term UV exposure is not recommended

Technical Data

Properties: See physical properties table

Coverages: 6′ x 50′ roll covers 300 square feet, not including overlaps or waste.

Specification Writer: Contact EPRO before writing specifications on this product. E.Series system assemblies should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Rolls should be inspected for cosmetic damage prior to application. Substrate must be inspected prior to application to make certain it is in accordance with manufacturer's requirements.

Application: Please refer to manufacturer's specifications. Drainage panels may run horizontally or vertically. In blindside shoring applications, secure e.drain to shoring using 2-inch flat washer fasteners every 24 inches on center on seams and terminations and a minimum of every 48 inches on center in the field.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com). 4' and 8' rolls are also available.

Roll: 6′ x 50′, 75 lbs.

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Secure with shot pins using power-actuated fastener or by hand.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Ecodrain-S9000.

e.drain 9000

Typical Physical Properties

Physical Property	Test Method	Value
Dimpled Core		
Core Material		Polypropylene
Color		Black
Dimple Height	ASTM D 1777	0.4" (10.16mm)
Compressive Strength	ASTM D 6364	21,000 psf (1005 kN/m²)
Flow rate	ASTM 4716	23 g/min/ft
Filter Fabric		
Grab Tensile	ASTM D 4632	370x250 lbs
CBR Puncture Resistance	ASTM D 6241	850 lbs
Apparent Operating Size	ASTM D 4751	40 sieve size (.42mm)
Water Flow Rate	ASTM D 4491	60 gpm/ft² (2460 l/min/m²)

Dimensions: 4' x 50', 6' x 50', 8' x 50'
Weight: 4' roll = 50 lbs, 6' rolls = 75 lbs, 8' rolls = 100 lbs

e.stop

Product Description

Basic Use: e.stop b is an expanding strip waterstop designed to stop water infiltration through cast-in-place concrete construction joints. It expands upon contact with water to form a positive seal against the concrete. The key to e.stop b's effectiveness is that it is highly expansive, which seals and fills voids in cracks and concrete.

Composition: e.stop b is a moisture activated high sodium bentonite content based waterstop.

Benefits

- Active swelling waterstop is fully encased in concrete to seal off water ingress
- Fast and easy installation
- Seals around pipe penetrations
- Ideal when pouring against existing concrete
- High resistance to hydrostatic pressure

Limitations

- Not a self-adhering product and requires the use of e.stop primer prior to securing waterstop to concrete, metal, or PVC (Pipe) surfaces
- Not designed, nor intended to function as an expansion joint sealant
- It is designed for structural concrete with a minimum of 3,000 psi compressive strength. e.stop b requires a minimum of 3" (75 mm) of concrete coverage.
- Not resistant to pre-hydration

Technical Data

Properties: See physical properties table

Coverages: 16.67" linear feet

Specification Writer: Contact EPRO before writing specifications on this product. E.Series system assemblies should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Surfaces should be clean and dry. Remove all dirt, rocks, rust or other construction debris. Do not install e.stop b in standing water or on an iced substrate. Apply a continuous layer of e.stop primer along the substrate where e.stop b will be installed. Assure proper 3" (75 mm) concrete coverage will be maintained.

Installation: Firmly press the entire length of e.stop b onto the adhesive. For best results apply e.stop b within 30 minutes of adhesive installation. e.stop primer may be applied to damp surfaces, but not in standing water.

At structural and pipe penetrations, cut into strips to fit around the penetration. Apply to adhesive and abut coil ends together. On irregular surfaces such as stone or rough concrete, make sure waterstop remains in direct contact with the substrate along the entire installation. There should not be any air gap between the waterstop and the substrate

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Roll: 16.67' x 3/4" x 1" x per roll, six rolls per case

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

No special equipment is needed.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Eprostop-BP.

epro | e.stop

Typical Physical Properties

Physical Property	Test Method	Value
Hydrostatic Head	Independent	231 ft
Wet/Dry Cycling (25 cycles)	Independent	No Effect
Adhesion to Concrete	Independent	Excellent

Dimensions: 16.67' x 3/4" x 1"

e.stop gu

Product Description

Basic Use: e.stop gu is a self-adhering gunnable expanding waterstop paste designed to stop water infiltration through cast-in-place concrete at construction joints and penetrations. It expands upon contact with water to form a positive seal against the concrete. The key to e.stop gu's effectiveness is that it is highly expansive, which seals and fills voids in cracks and concrete, and is easy to apply using caulking equipment.

e.stop gu can be applied over rough and smooth concrete, steel piles, dowels and Nelson Studs, and on iron or PVC pipes.

For shotcrete applications, e.stop gu requires a double layer application with a minimum 1-inch separation.

Composition: e.stop gu is a gray hydrophilic expanding urethane waterstop sealant.

Benefits

- Active swelling waterstop is fully encased in concrete to seal off water ingress.
- Self-adhering over concrete, iron, steel, and PVC.
- Fast and easy installation.
- Conforms to irregular surfaces.
- Seals around pipe penetrations.
- Ideal when pouring against existing concrete.
- High resistance to hydrostatic pressure.

Limitations

- Not an expansion joint sealant.
- It is designed for structural concrete with a minimum of 2,600 psi compressive strength.
- Requires a minimum of 3-inch (75 mm) of concrete coverage depending on the size of the bead used.
- Must be fully cured before concrete pour.
- Not resistant to pre-hydration.

Technical Data

Properties: See physical properties table.

Coverages: Coverage is dependent on the size of application bead. Applied material skins over after two hours and moisture cures in ten hours.

Minimum bead size and estimated linear coverage:

- 1/2" x 1/2": 6'-6" (2 m)
- 3/8" x 3/4": 5'-11" (1.8 m)

Storage and Handling: Store raised off the floor, away from moisture and sun, between 55-80°F (13-27°C).

Shelf Life: 12 months.

Specification Writer: Contact EPRO before writing specifications on this product. EPRO System selection should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Tubes should be inspected for cosmetic damage prior to application.

Application: Please refer to manufacturer's specifications. Substrate Preparation: Wipe substrates to receive e.stop gu clean to remove any dirt, dust, or moisture. Clean the surface of penetrations or protrusions with a wire brush to remove dirt, dust, rust, and loose particles. Surface must be free of frost or ice. No priming is necessary.

Installation: e.stop gu is used as a waterstop for penetrations, piles, dowels, and all concrete construction joints.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Tube Size: 10.8 oz (320 ml), 0.68 lbs (0.31 kg)
Case Size: 24 tubes, 16.2 lbs (7.35 kg)

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Caulking gun (10.8 oz. tube capactiy).

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as SepaSeal SH-100 by Kingfield Construction Products.

Physical Properties	
Hydrostatic Head Resistance	
1/2 x 1/2	100 feet (43 psi / 30.5 m)
3/8 x 3/4	150 feet (65 psi / 46 m)

e.stop hpl

Product Description

Basic Use: e.stop hpl is designed to self seal joints or penetrations in concrete when exposed to moisture, and specified when a bentonite based waterstop is not effective due to contamination, or high salinity.

Composition: e.stop hpl is a rubber based product that has been formulated with special hydrophilic compounds that are intended to expand in a controlled fashion when exposed to moisture.

Benefits

- Does not over expand which can cause self deterioration
- Does not over stress adjoining substrate material
- Excellent resistance in tidal areas (hydration/dehydration)
- Ideal for groundwater conditions that limit the effectiveness of bentonite based products

Limitations

- Not a self-adhering product and requires the use of e.stop primer prior to securing waterstop to concrete, metal, or PVC (Pipe) surfaces
- Not designed, nor intended to function as an expansion joint sealant
- Not resistant to pre-hydration, store in dry area.

Technical Data

Properties: See physical properties table

Coverages: 16.8' linear feet

Specification Writer: Contact EPRO before writing specifications on this product. E.Series system assemblies should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Surfaces should be clean and dry. Remove all dirt, rocks, rust or other construction debris. Do not install e.stop hpl in standing water or on an iced substrate. Apply a continuous layer of e.stop primer along the substrate where e.stop hpl will be installed. Assure proper 3" (75 mm) concrete coverage will be maintained.

Installation: Firmly press the entire length of e.stop hpl onto the adhesive. For best results apply e.stop hpl within 30 minutes of adhesive installation. e.stop primer may be applied to damp surfaces, but not in standing water.

At structural and pipe penetrations, cut into strips to fit around the penetration. Apply to adhesive and abut coil ends together. On irregular surfaces such as stone or rough concrete, make sure waterstop remains in direct contact with the substrate along the entire installation. There should not be any air gap between the waterstop and the substrate

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Roll: 16.8' x 3/4" x 1" x per roll, six rolls per case

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

No special equipment is needed.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Eprostop-HPL.

epro | e.stop hpl

Typical Physical Properties

Physical Property	Test Method	Value
Specific Gravity	ASTM D71	1.35+5
Hydrocarbon Content	ASTM D4	47% min.
Volatile Matter	ASTM D6	1% max.
Penetration, cone 77°F, 150 gm 5 sec	ASTM D217	40+5

Dimensions: 16.8' x 3/4" x 1"

PM Sealant

Product Description

Basic Use: PM Sealant is a Silyl Terminated Polyether (STPE) non-isocyanate, non-solvent detailing sealant that combines the strength of polyurethanes with the weathering resistance of silicones. PM Sealant can withstand the most stringent requirements for high performance bonding and elasticity under severe aging and UV weathering conditions without cracking or yellowing when subjected to extended UV-light exposure.

PM Sealant is used for penetration detailing, as a seam edge and patching detailing sealant, along the transition construction joint between two pours, and for sealing applied termination bar.

Compliances: Conforms to ASTM C920, Type S, Grade NS, Class 25, and AAMA 802.3 Type II Back Bedding Compound. USDA accepted.

Composition: PM Sealant is a gray, single-component, 100% solids, moisture-cured, elastomeric STPE sealant.

Benefits

- Replaces Silicone and Urethane sealants.
- Does not require a primer.
- Cures rapidly, even at low temperatures, and retains its properties to -75°F (-59°C).
- Non-reactive, PM Sealant will not oxidize or corrode metals.
- PM Sealant does not contain VOC's.
- Provides a continuous smooth surface.

Limitations

- Surfaces must be clean and dry for application.
- Surfaces must be free from frost or ice.

Technical Data

Properties: See physical properties table.

Coverages: Coverage is dependent on the size of application bead. Minimum Bead Size & Estimated Linear Coverage:

- 3/8" x 3/8" (10 mm x 10 mm): Penetrations, seam edges, corner & patch detailing.
  - Sausage: 21' (6.4 m)
- 3/4" x 3/4" with 1" cant (19 mm x 19 mm with 25 mm cant): Horizontal to vertical footing or brick ledge transition joint, wall vertical inside corner.
  - Sausage: 11' (3.4 m)

Storage and Handling: Store raised off the floor, away from moisture and sun, between 55-80°F (13-27°C).

Shelf Life: Sausage = 12 months.

Specification Writer: Contact EPRO before writing specifications on this product. EPRO System selection should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Buckets and Sausages should be inspected for cosmetic damage prior to application.

Application: Please refer to manufacturer's specifications.

Substrate Preparation: Use with adequate ventilation. Wipe substrates to receive PM Sealant clean to remove any dirt, dust, or moisture. Clean the surface of penetrations or protrusions with a wire brush to remove dirt, dust, rust, and loose particles. Surface must be free of frost or ice. No priming is necessary.

Installation: Determine minimum bead thickness and tool into surface.

Horizontal to vertical transition joints shall be applied like a caulk into a 1" (25 mm) cant, making sure product is injected into the joint with as well as applied to the surface.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Sausage Size: 20 oz (591 ml), 2.5 lbs (1.13 kg)
Case Size: 20 sausages, 50 lbs (22.7 kg)

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Caulking gun (20 oz. sausage capactiy), knife, box cutter.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Primetak Detail Sealant by Kingfield Construction Products.

PM Sealant

Physical Property	Test Method	Value
Material		STPE
Color		Gray
Corrosive Properties		Non-corrosive
High Temperature Resistance		Up to 300°F for short periods
Low Temperature Flexibilty		Properties retained to -75°F (-59°C)
Skin Time		< 30 minutes @ 77°F & 50% RH
Tack Free Time	ASTM C 679	< 60 minutes @ 77°F & 50% RH
Sag	ASTM D 2202	Non-sagging
Staining	ASTM C 510	Non-staining
Tensile Strength	ASTM D 412	225 PSI
Lap Shear (shear rate = 1"/min)	(internal eq. ASTM D 1002)	275 PSI
Elongation	ASTM D 412	275%
Hardness	ASTM C 661	45-50
Ultraviolet Radiation (UV) Rating	ASTM G 26	2000+ hours UV-A, no change in appearance or physical properties

Dimensions: Sausage: 20 oz (591 ml)
Weight: Sausage: 2.5 lbs (1.13 kg)

PrimeTak Primer

Product Description

Basic Use: PrimeTak Primer is a solvent-born rubber-based surface adhesive that is specifically formulated to provide excellent adhesion with the PrimeTak post-applied waterproofing membrane under many kinds of surface conditions. PrimeTak Primer is used to condition substrates to be dust-free to make them suitable for PrimeTak membrane application. In addition, PrimeTak Primer is formulated to promote adhesion over less than seven day green concrete.

Composition: PrimeTak Primer is a red solvent-based liquid.

Benefits

- Cures rapidly to a tacky surface, even at low temperatures, and retains its properties to -25°F (-32°C).
- Non-reactive, will not oxidize or corrode metals.
- Low VOC's (<100 g/l).
- Allows for membrane applicatiov over green concrete that is less than 7-days old.

Limitations

- Surfaces must be clean and dry for application.
- Surfaces must be free from frost or ice.
- Applied product must remain tacky for membrnae application.

Technical Data

Coverages: Coverage is dependent on the absorption of the substrate.

- Poured-in-Place Concrete: 250-300 ft^2/gallon (23-28 m^2)
- Precast Concrete: 200-250 ft^2/gallon (18.5-23 m^2)
- CMU Block: 150-250 ft^2/gallon (14-23 m^2)
- Exterior Gypsum: <200 ft^2/gallon (<18.5 m^2)
    - Coverage rate will vary based on surface texture, performance, and porosity of gypsum sheating.

Storage and Handling: Store raised off the floor, away from moisture and sun, between 55-80°F (13-27°C).

Shelf Life: Bucket = 12 months.

Specification Writer: Contact EPRO before writing specifications on this product. EPRO System selection should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Buckets should be inspected for damage prior to application.

Substrate Preparation: Use with adequate ventilation. Wipe substrates to receive PrimeTak Primer clean to remove any dirt, dust, or moisture. Clean the surface of joints and protrusions with a wire brush to remove dirt, dust, rust, and loose particles. Surface must be free of frost or ice.

Application: Apply PrimeTak Primer at a coverage rate appropriate for the substrate, approximately 250 to 300 square feet per gallon over dense concrete. The primer should be spread sufficiently to avoid areas of excess material. Areas of excess material will lengthen the primer's cure-to-tack time.

For best results, apply PrimeTak Primer and allow to cure until it becomes tacky to the touch. Porosity of the substrate could affect the tackiness of the adhesive; cure-to-tack timing may vary due to atmospheric conditions.

Application Limitations: Only apply PrimeTak Primer to an area that can be covered with PrimeTak waterproofing membrane in one working day. If primed surfaces dry and are no longer tacky, PrimeTak Primer must be reapplied before membrane application. Any primed areas not covered with membrane by end of day must be recoated the next day before membrane application.

NOTE: When used on horizontal surfaces, PrimeTak Primer's tacky nature may cause adhesion/bond to unwanted materials, including dust and debris, so precautions to protect the primed surface must be used.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Bucket: 5 gallon, 41.5 lbs (18.8 kg)

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Heavy or thick nap roller, foam or stiff bristle brush, mixing paddle.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Primetak ST Liquid Adhesive by Kingfield Construction Products.

PrimeTak

Product Description

Basic Use: PrimeTak is a self-adhesive 60 mil thick "peel and stick" post-applied waterproofing and vapor retarder membrane. PrimeTak consists of 56 mils of highly adhesive rubberized asphalt bonded to a durable 4 mil cross-laminated, white high density polyethylene (HDPE) backing.

PrimeTak is a post-applied membrane used on concrete foundation walls, split slabs, tunnels, plaza decks, parking garages and related applications where waterproofing is critical. PrimeTak is compatible with EPRO's NovaTak, PreTak, HydroGel, TurboSeal, and e.spray fluid-applied composite underslabs systems - E.Protect, E.Protect+, and E.Proformance.

PrimeTak is compatible with all different types of over excavated wall construction, two-sided formed concrete walls, single-sided shotcrete, precast concrete, insulated concrete forms (ICF), concrete masonry units (CMU), and wood paneling.

Composition: PrimeTak is a 4'x50' (1.2m x 15.4m) roll consisting of a 4-mil cross-laminated, high-density polyethylene (HDPE) backing, bonded to 56 mils of adhesive rubberized asphalt waterproofing compound.

Benefits

- 7-day green concrete approved.
- Fully bonds to substrate with dust and moisture-mitigating PrimeTak Primer surface primer.
- 48" wide membrane width allows for fast and easy application, with reduced seams on continuous flat surfaces.
- Extended selvage edge provides asphalt-to-asphalt adhesion at the seam.
- White color to help reflect heat, reducing sheet thermal slumping.

Limitations

- Substrate temperatures must be 25°F (-4°C) and rising.
- Substrate must be dry to the touch and free from form release oils, powdered laitance, and waxes.
- Concrete Surface Profile (CSP) must be between 1-3, without a broom or textured surface.
- Membrane rated for a maximum of 30 day sunlight exposure.

Technical Data

Properties: See physical properties table.

Coverage: One roll covers 200 square feet (18.6 square meters), not including overlaps or waste.

Storage and Handling: Store raised off the floor, away from moisture and sun, between 55-80°F (13-27°C).

Shelf Life: 12 months.

Specification Writer: Contact EPRO before writing specifications on this product. EPRO System selection should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Rolls should be inspected for damage prior to application.

Application: Please refer to manufacturer's specifications and installaton guide.

Substrate Preparation: A smooth monolithic concrete surface that is free of dust and debris is required. Provide a Concrete Surface Profile (CSP) of 1 thru 3. Broom or textured surfaces are not recommended. Concrete should be dry, frost free, and cured a minimum of seven days prior to application of PrimeTak Primer and PrimeTak membrane. Surface must be free of voids, spalled areas, sharp projections, loose aggregate, and form release agents.

Surface defects such as cracks, single bug holes of ½" (12 mm) or greater, or cavities, should be filled and finished flush with a non-shrink hydraulic grout or concrete. Single bug holes can be filled with PM Sealant.

Concrete masonry (CMU) walls or brick require a well-adhered parge coat before application of membrane. Striking off joints flush with surface is also required.

Horizontal Surfaces: Prior to starting work, check that all horizontal surfaces to be waterproofed slope towards drainage or refer to balcony details for zero-slope applications. PrimeTak can withstand ponding water but is not intended for areas designed to retain water indefinitely.

Installation: Apply PrimeTak Primer and let dry until tacky to the touch. Starting from the lower foundation base, shingle down the membrane in 8 foot (2.4 m) vertical sections with a 6" (150 mm) overlap on staggered endlap seams. Sidelap seams must be a minimum of 2.5" (63 mm). Roll membrane with a hard rubber or steel 4" (100 mm) hand roller. For horizonal surfaces, use a 75 pound (34 kg) linoleum roller.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Roll Size: 60 mil (1.5 mm), 4' x 50' (1.2 x 15.4 m), 75 lbs (34 kg)

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying

PrimeTak

sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Seaming: 4" (100 mm) heavy seam roller, 75 lbs (34 kg) linoleum roller (for horizontal application), knife, box cutter.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Primetak by Kingfield Construction Products.

Typical Physical Properties

Physical Property	Test Method	Value
Film Color		White
Adhesive Color		Black
Film Thickness	ASTM D 1000	4 Mil
Adhesive Thickness	ASTM D 1000	56 Mil
Composite Thickness	ASTM D 1000	60 Mil
Tensile Strength - Film	ASTM D 882	7294 psi
Tensile Strength - Composite	ASTM D 412, Modified Die C	370 psi
Elongation	ASTM D 412	600%
Puncture Resistance	ASTM E 154	69 lbs.
Peel Adhesion to Concrete	ASTM D 903	17 lbs/in width
Lap Peel Adhesion	ASTM D 903	19 lbs/in width
Pliability	ASTM D 146	No effect
Low Temperature Flexibility @-15°F (-26°C)	ASTM D 570	Pass
Crack Cycling	ASTM C 836, Tested @-15°F (-26°C)	No effect
Exposure to Fungi in Soil	GSA-PBS 07115 (16 weeks)	No effect
Hydrostatic Head Resistance	ASTM D 5385	231 ft (70 m)
Water Absorption	ASTM D 570	0.1%
Water Vapor Transmission Rate	ASTM E 96, Method B	0.022 perms

Dimensions: Roll: 4' x 50' (1.2 m x 15.24 m)
Weight: 75 lbs (34 kgs)

EPRO Services, Inc.
(800) 882-1896
eproinc.com

7/1/20

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

1. PRODUCT IDENTIFICATION

Trade Name(s): e.stop gu
Product Description: Hydrophilic elastic waterstop
Synonyms: N/A
CAS No: N/A

Supplier:
EPRO Services, Inc.
PO Box 347
Derby, KS 67037
800-882-1896 (8:00am – 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

GHS classification
Flammable liquid: Not classified
Acute toxicity-oral: Not classifiable
Acute toxicity-dermal: Not classifiable
Acute toxicity-inhalation: Not classifiable
Skin irritation: Category 3
Eye damage/irritation: Not classifiable
Sensitization-respiratory: Category 1
Sensitization-respiratory skin: Category 1
Germ cell mutagenicity: Not classifiable
Carcinogenicity: Category 2
Toxic to reproduction: Category 1
Specific target organ systemic toxicology (single exposure): Category 1 (liver, kidney, central nerve)
Specific target organ systemic toxicology (repetitive exposure: Category 1 (nerve)
Aspiration hazard: Not classifiable
Hazardous to the aquatic environment-acute: Category 3
Hazardous to the aquatic environment-chronicity: Not classifiable

GSA Label element

Signal Word: Danger

Hazard and Toxicity Information
Causes mild skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life.
Prevention
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces.
Avoid drinking or breathing.
Do not get in eyes, on skin, or on clothing.
Wear protective gloves/protective clothing/eye protection/face protections.
Wash hands and face thoroughly after handling.
Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Classification of the substance or mixture: Mixture
Chemical/common name: No name
Components, ingredients, and CAS number:

Components	Content (%)	MITI no.	CAS no.	Remarks (PRTR)
Inorganic powder	33%			
Titanium dioxide	5%	(1)-558	13463-67-7	
Silica gel	2%	(1)-548	14808-60-7	
Ethylbenzene	2.1%	(3)-28	100-41-4	(Class 1) 53
Xylene	2.5%	(3)-3	1330-20-7	(Class 1) 80
Phthalate series plasticier	15%			
Polyurethane polymer	40%			

4. FIRST-AID MEASURES

If inhalation: Move to a place with fresh air. If you feel unwell, call a doctor/physician.
If on skin: Take off contaminated clothes, shoes, etc. and flush affected area of skin with large amount of water or lukewarm water and soap. If you feel unwell, call a doctor/physician.
If in eyes: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.
If swallowed: Rinse mouth. Do not induce vomiting. Get medical advice/attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents: Dry powder, carbon dioxide, air foam fire extinguisher, water spray.
Unsuitable extinguishing agents: A stream of water.
Specific firefighting: Keep away from near ignition source. Extinguish from windward with protective equipment.
Protective equipment: Use respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use only non-sparking tools. Keep unprotected persons away.
Protective equipment and emergency procedures: Wear protective equipment.
Environmental precautions: Avoid release to the environment.
Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. HANDLING AND STORAGE

Handling:
Fire strict prohibition.
Use explosion-proof electrical/ventilating/lighting/equipment.
Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.
Keep away from heat/sparks/open flames/hot surfaces.
Avoid contact with strongly oxidizing agent.
Wash hands thoroughly after handling.
Storage: Keep receptacle tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: 50ppm (Xylene)
Allowable parameters
Japan society for occupational health: (2005) 50ppm (Xylene)
ACGIH: (2005) TLB-TWA 100ppm (Xylene)
Equipment measures: When steam or fume and mist occur, set up a local exhaust ventilation. Set up facilities for washing eyes and physical cleaning near handling locality.
Protective equipment
Respiratory protection: Gas mask (for organic gas), an airline respirator.
Hand protection: Protective gloves.
Eye protection: Tightly fitting safety goggles.
Skin/body protection: Impervious clothing.

Sanitary requirement: Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Paste
pH: Not applicable
Boiling point: No data available
Evaporation rate: No data available
Vapor density: No data available
Solubility: Insoluble in water
Flammability (solid, gas): No data available
Odor: Xylene odor
Melting/freezing point: No data available
Flash point: 52°C
Vapor pressure: No data available
Specific gravity: 1.29 (20°C)
Auto-ignition temperature: No data available

10. STABILITY AND REACTIVITY

Stability and reactivity: Product is stable at normal temperature and ordinary pressure.
Possibility of hazardous reactions: This component is dangerous in response to a strongly oxidizing agent. This component can run not in response to active hydrogen workplace.
Conditions to avoid: Heating.
Incompatible materials: Oxidizing agent.

11. TOXICOLOGICAL INFORMATION

Acute toxicity-oral: Not classifiable
Acute toxicity-dermal: Not classifiable
Acute toxicity-inhalation: Not classifiable
Skin corrosion/irritation: Category 3
Eye damage/irritation: Not classifiable
Sensitization-respiratory: Category 1
Sensitization-respiratory skin: Category 1
Germ cell mutagenicity: Not classifiable
Carcinogenicity: Category 2
Toxic to reproduction: Category 1
Specific target organ systemic toxicology (single exposure): Category 1 (liver, kidney, central nerve)
Specific target organ systemic toxicology (repetitive exposure): Category 1 (nerve)
Aspiration hazard: Not classifiable

12. ECOLOGICAL INFORMATION (non-mandatory)

No information available.

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Dispose of contents/container in accordance with local regulation for industrial waste disposal. Consign a qualified industrial waste disposer.

14. TRANSPORT INFORMATION (non-mandatory)

Prevent cargo from falling, damaging, or collapsing.
ERG number: 171 **UN number:** Not applicable

15. REGULATORY INFORMATION (non-mandatory)

In Japan
Industrial Safety and Health Act: Article 57-2 (Notifiable substances)
Xylene
Ethylbenzene
Titanium dioxide
Silica gel
4.4’-MDI
Poisonous and Deleterious Substances Control Act: Not applicable

Fire Service Act: Not applicable
Air Pollution Control Act: Not applicable
Pollutant Release and Transfer Register: Class 1 Designated Chemical Substances – Xylene, Ethylbenzene

16. OTHER INFORMATION

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

EPRO Services, Inc.
(800) 882-1896
eproinc.com

7/1/20

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

1. PRODUCT IDENTIFICATION

Trade Name(s): PM Sealant
Product Description: Adhesives. Sealant.
Synonyms: N/A
CAS No: N/A

Supplier:
EPRO Services, Inc.
PO Box 347
Derby, KS 67037
800-882-1896 (8:00am – 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

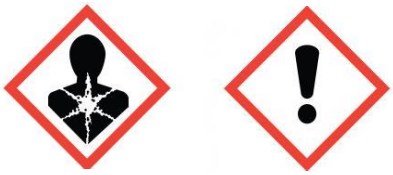
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (49CFR1910.1200).

Classification of the substance or mixture

Acute toxicity-Oral-Category 4
Serious Eye Damage/Eye Irritation-Category 2A
Carcinogenicity-Category 1A
Reproductive Toxicity-Category 1B
Specific target organ toxicity (single exposure)-Category 1 (central nervous system)
Specific target organ toxicity (repeated exposure)-Category 1 (respiratory system)
Specific target organ toxicity (repeated exposure)-Category 2 (bladder)

GHS label elements

Hazard pictogram



Signal word: Danger

Hazard statements

Harmful if swallowed. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. Cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye and face protection. Do not breathe dust/fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

Response: If exposed, call a POISON CENTER or physician if you feel unwell. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. IF SWALLOWED, immediately call a POISON CENTER or physician. Rinse mouth. Get medical attention if you feel unwell.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Statement of Unknown Acute Toxicity: Oral 71.91% of the mixture consists of ingredients of unknown acute toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	%	CAS Number
Calcium Carbonate	30-60	1317-65-3
Carbonic acid, calcium salt (1:1)	15-40	471-34-1
Titanium Dioxide	1-5	13463-67-7
Organosilane	1-5	2768-02-7
Dibutyltin oxide	0.1-1	818-08-6
Diisonoyl phthalate	15-40	28553-12-0
Carbon Black	0.05 - <0.1	1333-86-4

4. FIRST-AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do so. Continue rinsing. If irritation persists, get medical attention.

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call poison center or physician if you feel unwell.

Skin contact: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: If swallowed, immediately call a poison center or physician. DO NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Acute

Harmful if swallowed. Causes serious eye irritation.

Delayed

May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: Use dry chemical, CO2, water, or foam.
Unsuitable extinguishing media: Do not use high pressure water streams.
Specific hazards arising from the chemical: Upon decomposition, product emits carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.
Hazardous thermal decomposition products: Decomposition products may include carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.
Special protective actions for firefighters: Heating may cause an explosion. Containers may rupture or explode. Move containers from fire area if it can be done without risk. Avoid inhalation of vapors or combustion products. Dike for later disposal. Stay upwind and keep out of low areas.
Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures
Wear personal protective clothing and equipment. See Section 8.
Methods and materials for containment and cleaning up
Keep unnecessary people away. Isolate hazard area and deny entry. In case of spillage, stop the flow of material and block any potential routes to water systems. Only personnel trained for the hazards of this material should perform clean up and disposal.
Environmental Precautions
Do not flush into sanitary sewer systems, drains, or surface water. Avoid release to the environment.

7. HANDLING AND STORAGE

Precautions for safe handling
Protective measures: Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with eyes or skin. Do not eat, drink, or smoke when using this product. Always wear recommended personal protective equipment (section 8). Take precautionary measures against static discharge. Avoid release to the environment. Empty containers retain product residue and can be hazardous. Do not reusecontainer.
Conditions for safe storage, including any incompatibilities: Store locked up and in accordance with local regulations. Store in original container in a cool dry well-ventilated area away from incompatible materials. Empty containers may contain product residue. Avoid contact with temperatures above 120°C.
Incompatible Materials: Strong oxidizer. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits

Calcium carbonate 1317-65-3	NIOSH: 10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust OSHA (US): 15 mg/m3 TWA total dust; 5 mg/m3 TWA respirable fraction Mexico: 10 mg/m3 TWA VLE-PPT 20 mg/m3 STEL (PPT-T)
Carbonic acid, calcium salt (1:1) 471-34-1	NIOSH: 10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust
Titanium dioxide 13463-67-7	ACGIH: 10 mg/m3 TWA NIOSH: 2.4 mg/m3 TWA (CIB 63) fine; 0.3 mg/m3 TWA (CIB 63) ultrafine, including engineered nanoscale 5000 mg/m3 IDLH OSHA (US): 15 mb/m3 TWA total dust Mexico: 10 mg/m3 TWA VLE-PPT as Ti 20 mg/m3 STEEL (PPT-CT) as Ti
Carbon Black 1333-86-4	ACGIH: 3 mg/m3 TWA inhalable particulate matter NIOSH : 3.5 mg/m3 TWA ; 0.1 mb/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons) as PAH 1750 mb/m3 IDLH OSHA (US): 3.5 mg/m3 TWA Mexico: 3.5 mg/m3 TWA VLE-PPT 7 mg/m3 STEL (PPT-CT)

ACGIH – Threshold Limit Values – Biological Exposure Indices (BEI): There are no biological limit values for any of this product's components.

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstationlocation.

Eye/face protection: Wear splash resistance safety goggles with a face shield.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates thisis necessary.

Body protection: Wear appropriate chemical resistant clothing.

Respiratory protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid paste
Odor: Mild
pH: Not available
Boiling point: Not available
Flash point: 93.3°C (>200°F)
Flammability (solid, gas): Not available

Color: black, white, gray
Odor threshold: Not available
Melting point: Not available
Freezing point range: Not available
Evaporation rate: Not available
Auto-ignition temperature: Not available

Lower explosive (flammable) limit: Not available
Upper explosive (flammable) limit: Not available
Decomposition temperature: Not available
Vapor pressure: Not available
Vapor density: Not available
Specific gravity: 1.3 – 1.7
Water solubility: Slightly soluble
Partition coefficient n-octanol/water: Not available
Viscosity: Not available
Kinematic Viscosity: Not available
Solubility (Other): Not available
Density: Not available
Molecular Weight: Not available

10. STABILITY AND REACTIVITY

Reactivity: No reactivity hazard is expected.
Chemical stability: Product is stable at normal temperatures and pressure.
Possibility of hazardous reactions: Under normal conditions of storage and use hazardous will not polymerize.
Conditions to avoid: Avoid heat, flames, sparks, and other ignition sources. Avoid contact with incompatible materials and temperatures above 120°C (248°F).
Incompatible materials: Strong oxidizers and strong acids.
Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effect
Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbonic acid, calcium salt (1:1)	Oral LD50	Rat	6450 mg/kg	
Titanium dioxide	Oral LD50	Rat	> 10000 mg/kg	
Organosilane	Oral LD50	Rat	7340 ml/kg	
Dibutyltin oxide	Oral LD50	Rat	44.9 mg/kg	
Diisononyl phthalate	Oral LD50	Rat	> 9750 mg/kg	
	Inhalation LC50	Rat	> 4.4 mg/l	4 hours
Carbon black	Oral LD50	Rat	> 15400 mg/kg	
Product toxicity- acute toxicity estimated	Oral LD50		1261.24 mg/kg	

Immediate effects: Harmful if swallowed. Causes serious eye irritation. May cause skin irritation. May be harmful if inhaled.
Acute Toxicity Estimate: Oral: 1261.241 mb/kg
Delayed effects: May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.
Irritation/Corrosion: Causes serious eye irritation.
Respiratory Sensitization: No information on significant adverse effects.
Dermal Sensitization: No information on significant adverse effects.
Component Carcinogenicity

Product/ingredient name	ACGIH	IARC	OSHA	NIOSH
Titanium Dioxide	A 4	Group 2 B	Yes	Potential Occupational Carcinogen
Carbon black	A 3	Group 2 B	Yes	Potential Occupational Carcinogen

Results of a DuPont epidemiology study showed that employees who had been exposed to titanium dioxide pigments were at no greater risks of developing lung cancer than were employees who had not been exposed to titanium dioxide pigments. No pulmonary fibrosis was found in any of the employees and no associations were observed between titanium dioxide pigment exposure and chronic respiratory disease or lung

abnormalities. Based on the results of this study, DuPont has concluded that titanium dioxide pigment will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

Germ Cell Mutagenicity: No information on significant adverse effects.
Tumorigenic Data: No information on significant adverse effects.
Reproductive toxicity: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure): Central nervous system.
Specific target organ toxicity (repeated exposure): Respiratory system, bladder.
Aspiration hazard: No information on significant adverse effects.
Medical Conditions Aggravated by Exposure: No data available.

12. ECOLOGICAL INFORMATION (non-mandatory)

Toxicity: May cause long lasting harmful effects to aquatic life.

Product/ingredient name	Result	Species	Exposure
Diisononyl phthalate	LC50 100 mg/l (semi static)	Brachydanio rerio	96 hours
	LC50 > 0.14 mg/l (flow thru)	Lepomis macrochirus	96 hours
	LC50 > 0.17 mg/l (static)	Lepomis macrochirus	96 hours
	LC50 > 0.19 mg/l (flow thru)	Pimephales promelas	96 hours
	LC50 > 0.14 mg/l (static)	Pimephales promelas	96 hours
	EC50 > 500 mg/l (IUCLID)	Desmodesmus subspicatus	72 hours
	EC50 > 1.8 mg/l static)	Pseudokirchneriella	96 hours
	EC50 > 500 mg/l (IUCLID)	Daphnia magna	48 hours
	EC50 > 0.06 mg/l (static)	Daphnia magna	48 hours

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Disposal methods: Dispose of in accordance with all applicable local, state, regional, and federal regulations.
Component Waste Numbers: The US EPA has not published waste numbers for this product components.

14. TRANSPORT INFORMATION (non-mandatory)

DOT: Not regulated as a dangerous good.
IATA: Not regulated as a dangerous good.
ICAO: Not regulated as a dangerous good.
IMDG: Not regulated as a dangerous good.
International Bulk Chemical Code: This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Titanium dioxide (13463-67-7): IBC Code – Category Z (slurry)

15. REGULATORY INFORMATION (non-mandatory)

US Federal regulations: None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CRF 372.65), CERCLA (40 CRF 302.4), TSCA 12(b), or require an OSHA process safety plan.
SARA 311/312: Carcinogenicity. Acute Toxicity. Reproductive Toxicity. Serious Eye damage/Eye irritation. Specific Target Organ Toxicity.

State regulations
California: The following components are listed: Carbon Black

Massachusetts: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black
Minnesota: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black
New Jersey: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black
Pennsylvania: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black

California Prop. 65
WARNING: This product can expose you to chemicals including Titanium dioxide, Diisononyl phthalate, and carbon black, which are known to the State of California to cause cancer.
Titanium dioxide: carcinogen, 9/2/2011 (airborne, unbound particles of respirable size)
Diisononyl phthalate: carcinogen, 12/20/2013
Carbon black: carcinogen, 2/21/2003 (airborne, unbound particles of respirable size)

Canada Regulations
Canadian WHMIS Ingredient Disclosure List (IDL): Components of this material have been checked against the list. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIX criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.
Dibutyltin oxide (818-08-6): 1%
Carbon black (1333-86-4): 1%

Component Analysis – Inventory

	Calcium carbonate	Carbonic acid,calcium salt ((1:1)	Titanium dioxide	Organosilane	Dibutyltin oxide	Diisononyl phthalate	Carbon black
	1317-65-3	471-34-1	13463-67-7	2768-02-7	818-08-6	28553-12-0	1333-86-4
US	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CA	NSL	DSL	DSL	DSL	DSL	DSL	DSL
EU	EIN	EIN	EIN	EIN	EIN	EIN	EIN
AU	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PH	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JP-ENCS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JP-ISHL	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KR KECI Annex 1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KR KECI Annex 2	No	No	No	No	No	No	No
KR-REACH CCA	No	No	No	No	No	No	No
CN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MX	Yes	Yes	Yes	Yes	No	Yes	Yes
TW	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VN (draft)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

EPRO Services, Inc.
(800) 882-1896
eproinc.com

7/1/20

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

1. PRODUCT IDENTIFICATION

Trade Name(s): PrimeTak Primer
Product Description: Liquid adhesive
Synonyms: N/A
CAS No: N/A

Supplier:
EPRO Services, Inc.
PO Box 347
Derby, KS 67037
800-882-1896 (8:00am – 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (49CFR1910.1200).

Classification of the substance or mixture

Flammable liquid-Category 2
Skin Corrosion/Irritation-Category 2
Toxic to reproductive (Fertility)-Category 2
Toxic to reproduction (unborn child)-Category 2
Specific target organ toxicity (single exposure) (Narcotic effects)-Category 3
Specific target organ toxicity (repeated exposure)-Category 2
Aspiration hazard-Category 1
Aquatic toxicity (Chronic)-Category 2

GHS label elements

Hazard pictogram

Signal word: Danger

Hazard statements

Highly flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use explosion-proof electrical, ventilating, lighting, and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash hands thoroughly after handling.

Response: Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Hazards not otherwise classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Other means of identification: Not available

CAS number/other identifiers

CAS number: Not applicable

Product code: Not available

Ingredient name	%	CAS number
Toluene	30 - 60	108-88-3
n-Hexane	30 - 60	110-54-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, with the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST-AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat, and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include pain or irritation, watering, or redness.

Inhalation: Adverse symptoms may include nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Skin contact: Adverse symptoms may include irritation, redness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Ingestion: Adverse symptoms may include nausea or vomiting, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present the rescuer should wear an appropriate mask of self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical: Highly flammable liquid and vapor. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products: Decomposition products may include carbon dioxide and carbon monoxide.

Special protective actions for firefighters: Move containers from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up

Spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Toluene	**NIOSH REL (United States, 6/2009).** STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 10 hours. TWA: 100 ppm 10 hours. **OSHA PEL Z2 (United States, 11/2006).** AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. **ACGIH TLV (United States, 3/2012).** TWA: 20 ppm 8 hours.
n-Hexane	**ACGIH TLV (United States, 3/2012). Absorbed through skin.** TWA: 50 ppm 8 hours. **NIOSH REL (United States, 6/2009).** TWA: 180 mg/m³ 10 hours. TWA: 50 ppm 10 hours. **OSHA PEL (United States, 6/2010).** TWA: 1800 mg/m³ 8 hours. TWA: 500 ppm 8 hours.

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstationlocation.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates thisis necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots, and gloves.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Odor: Hydrocarbon (strong)
pH: Not available
Boiling point: 67°C (152.6°F)
Burning time: Not applicable
Evaporation rate: 4.5 (ether (anhydrous) = 1
Lower explosive (flammable) limit: 1.2%
Vapor pressure: 20.3 kPA (152mm Hg) room temp
Relative density: 0.9
Auto-ignition temperature: Not available
SADT: Not available
VOC: 527 g/L

Color: red
Odor threshold: Not available
Melting point: Not available
Flash point: Closed cup - -19.4°C (-2.9°F) (Tagliabue)
Burning rate: Not applicable
Flammability (solid, gas): Not available
Upper explosive (flammable) limit: 7.5%
Vapor density: 3.5 (Air = 1)
Partition coefficient n-octanol/water: Not available
Decomposition temperature: Not available
Viscosity: Not available
Solubility: Partially soluble in cold & hot water

10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Product is stable.
Possibility of hazardous reactions: Under normal conditions of storage and use hazardous reactions will not occur.
Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials: Reactive or incompatible with oxidizing materials, acids, and alkalis.
Hazardous decomposition products: Under normal conditions of storage and use hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effect

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
n-Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-

Irritation/corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	870 µg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 µL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
n-Hexane	Eyes - Mild irritant	Rabbit	-	10 mg	-

Sensitization
Skin: No data available
Respiratory: No data available

Mutagenicity: No data available

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-

Reproductive toxicity: No data available

Teratogenicity: No data available

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene n-Hexane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene n-Hexane	Category 2 Category 2	Not determined Not determined	Not determined Not determined

Aspiration hazard

Name	Result
Toluene n-Hexane	Aspiration Hazard - Category 1 Aspiration Hazard - Category 1

Information on Likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mount, throat, and stomach.

Symptoms related to the physical, chemical, and toxicological characteristics

Eye contact: Adverse symptoms may include pain or irritation, watering, redness.

Inhalation: Adverse symptoms may include nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Skin contact: Adverse symptoms may include irritation, redness, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Ingestion: Adverse symptoms may include nausea or vomiting, reduced fetal weight, increase in fetal deaths, or skeletal malformations.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure

Potential immediate effects: No known significant effect or critical hazards.

Potential delayed effects: No known significant effect or critical hazards.

Long term exposure

Potential immediate effects: No known significant effect or critical hazards.

Potential delayed effects: No known significant effect or critical hazards.

Potential chronic health effects

General: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: Suspected of damaging the unborn child.
Development effects: No known significant effects or critical hazards.
Fertility effects: Suspected of damaging fertility.
Target organs: Contains material which may cause damage to the following organs: kidneys, nervous system, reproductive system, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens, or cornea.

Numerical measures of toxicity
Acute toxicity estimates: No data available

12. ECOLOGICAL INFORMATION (non-mandatory)

Toxicity

Product/ingredient	Result	Species	Exposure
Toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/L Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/L Fresh water	Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/L Fresh water	Fish - Oncorhynchus kisutch -Fry	96 hours
	Chronic NOEC 500000 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/L Fresh water	Daphnia - Daphnia magna	21 days
n-Hexane	Acute LC50 113000 µg/L Fresh water	Fish - Oreochromis mossambicus	96 hours

Persistence and degradability: No data available
Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Toluene	2.69	8.317637711	low
n-Hexane	3.9	-	low

Mobility in soil
Soil/water partition coefficient (Koc): No data available

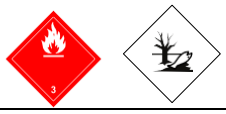
Other adverse effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States – RCTA Toxic hazardous waste "U" List
Toluene CAS #: 108-88-3 Listed Reference #: U220

14. TRANSPORT INFORMATION (non-mandatory)

	DOT Classification	IMDG	IATA
UN number	UN1139	UN1139	UN1139
UN proper shipping name	COATING SOLUTION RQ(Toluene, n-Hexanes)	COATING SOLUTION. Marine pollutant (n-Hexane)	COATING SOLUTION
Transport hazard class(es)	3 	3 	3 
Packing group	II	II	II
Environmental hazards	Yes.	Yes.	No.
Additional information	**Reportable quantity** 2999.4 lbs / 1361.7 kg [399.7 gal / 1513 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	**Emergency schedules (EmS)** F-E, S-E	-

Special precautions for user: Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the even of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

15. REGULATORY INFORMATION (non-mandatory)

US Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

US inventory (TSCA 8b): All components are listed or exempted

Clean Water Act (CWA) 307: Toluene

Clean Water Act (CWA) 311: Toluene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Listed

Clean Air Act Section 602 Class 1 Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Listed

SARA 302/304: No products were found

SARA 304 RQ: Not applicable

SARA 311/312 Classification: Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Toluene	30 - 60	Yes.	No.	No.	Yes.	Yes.
n-Hexane	30 - 60	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Toluene n-Hexane	108-88-3 110-54-3	30 - 60 30 - 60
Supplier notification	Toluene n-Hexane	108-88-3 110-54-3	30 - 60 30 - 60

SARA 313 notifications must not be detached from SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts: The following components are listed: Toluene;n-Hexane

New York: The following components are listed: Toluene;n-Hexane

New Jersey: The following components are listed: Toluene; n-Hexane

Pennsylvania: The following components are listed: Toluene; n-Hexane

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)

International regulations

Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

Japan inventory: Not determined.

Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals: Not listed.

Chemical Weapons Convention List Schedule II Chemicals: Not listed.

Chemical Weapons Convention List Schedule III Chemicals: Not listed.

16. OTHER INFORMATION

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

EPRO Services, Inc.
(800) 882-1896
eproinc.com

7/1/20

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

1. PRODUCT IDENTIFICATION

Trade Name(s): PrimeTak
Product Description: Polymer modified bitumen sheet membrane
Synonyms: N/A
CAS No: N/A

Supplier:
EPRO Services, Inc.
PO Box 347
Derby, KS 67037
800-882-1896 (8:00am – 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

OSHA/HCS status: While not considered hazardous by the OSHA Hazardous Communications Standard (49CFR1910.1200), this SDS contains valuable information critical to safe handling and proper use of product.

Classification of substance or mixture: Not classified.
GHS label elements: No signal word. No known significant effects of critical hazards.
Precautionary statements
Prevention, Response, Storage, and Disposal: Not applicable
Hazards not otherwise classified: None known.
Hazardous Material Information System USA

Health – 1	Flammability – 0	Physical hazards – 0

National Fire Protection Association (USA) NFPA 704

Health – 1	Flammability – 0	Instability – 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Other means of identification: Not available
CAS number: Not applicable
Product code: Not applicable
Occupational exposure limits, if available are listed in section 8.

4. FIRST-AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if symptoms occur.
Inhalation: Not likely to occur under normal use. Possible exposure to toxic fumes if burned.
Skin contact: Wash with soap and water. Get medical attention if symptoms occur.
Ingestion: Not likely to occur under normal use. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Most important symptoms/effects, acute and delayed: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Protection of first aiders: No action shall be taken involving any personal risk or without suitable training.

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media: None known.
Specific hazards arising from the chemical: No specific fire or explosion hazard.
Hazardous thermal decomposition products: Decomposition products may include carbon dioxide, carbon monoxide, sulfur oxides, or low MW hydrocarbons.
Special protective equipment: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus ((SCBA) with a full-face piece operated in a positive pressure mode.
Special protective actions for fire fighters: No special protection is required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures
For non-emergency personnel: Put on appropriate personal protective equipment.
For emergency responders: If specialized clothing is required to deal with spillage, take note of any information in section 8 on suitable and unsuitable materials.
Environmental precautions: Not applicable.
Methods and materials for containment and cleaning up: Due to physical state of materials, spills are not possible.

7. HANDLING AND STORAGE

Protective measures: Put on appropriate personal protective equipment (see section 8).
Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see section 10) and food and drink.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None
Appropriate engineering controls: No special ventilation requirement. Good ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to insure they comply with the requirement of environmental protection legislation.
Hygiene measure: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection: Safety eyewear complying with an approved standard should be used when risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, and dusts.
Skin Protection
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection: Appropriate footwear and any additional skin protection measure should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection: Use a properly fitted, particulate filter respiratory complying with an approved standard if a risk assessment indicates this is necessary. Respiratory selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Odor: Asphaltic (slight)
pH: Not applicable
Boiling point: Not applicable
Burning time: Not determined
Evaporation rate: Not applicable
Lower & upper explosive limits: Not applicable
Vapor pressure: Not applicable
Solubility: Insoluble in water
Auto-ignition temperature: Not applicable
SADT: Not appliable
VOC: 0 g/l

Color: Black/white
Odor threshold: Not available
Melting point: Not available
Flash Point: Not applicable
Burning rate: Not determined
Flammability (solid, gas): Not applicable
Vapor density: Not applicable
Relative density: 1.09
Partition coefficient n-octanol/water: Not available
Decomposition temperature: Not applicable
Viscosity: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Stable
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions to avoid: No specific data.
Incompatible materials: Reactive or incompatible with the following materials: Oxidizing materials.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.
Irritation/Corrosion (Skin, Eyes, Respiratory): No data available.
Sensitization (Skin, Respiratory): No data available.
Mutagencity, Carcinogenicity, Reproductive toxicity: No data available.
Specific target organ toxicity (single or repeated exposure): No data available.
Aspiration hazard: No data available.
Information on likely routes of exposure: Anticipated: dermal. Not anticipated: Oral, inhalation, ingestion.
Potential acute health effects (eye, inhalation, skin contact, ingestion): No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION (non-mandatory)

Symptoms related to physical, chemical, and toxicological characteristics (eye, inhalation, skin contact, ingestion): No known significant effects or critical hazards.
Delayed and immediate effects and chronic effects from short- and long-term exposure: No known significant effects or critical hazards.
Numerical measures of toxicity (acute toxicity estimates): No data available.

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Disposal methods: Generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers or liners may retain some product residues. This material and its container mut be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

14. TRANSPORT INFORMATION (non-mandatory)

AERG: Not applicable.
DOT / TDG / IMDG / IATA: Not regulated.

15. REGULATORY INFORMATION (non-mandatory)

US Federal regulations
TSCA 8(a) CDR Exempt/Partial exemption: Not determined.
US inventory (TSCA 8(b)): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous air pollutants (HAPs): Not listed.
Clean Air Act (CAA) Section 602 Class I Substances: Not listed.
Clean Air Act (CAA) Section 602 Class II Substances: Not listed.
DEA List I Chemicals (Precursor chemicals): Not listed.
DEA List II Chemicals (Essential Chemicals): Not listed.

SARA 302/304
Composition/information on ingredients: No products found.

SARA 304 RQ: Not applicable.
SARA 311/312 Classification: Not applicable.

State regulations
Massachusetts: The following components are listed: Petroleum asphalt
New Jersey: The following components are listed: Petroleum asphalt.
New York: None of the components are listed.
Pennsylvania: The following components are listed: Petroleum asphalt.
California Prop. 65: No products were found.

International regulations
International lists
Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
Malaysia inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List schedule I Chemicals: Not listed.
Chemical Weapons Convention List schedule II Chemicals: Not listed.
Chemical Weapons Convention List schedule III Chemicals: Not listed.

16. OTHER INFORMATION

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

PM SEALANT OR E.ROLL APPLIED TO THE TOP OF THE TERMINATION BAR AND COVERING A MINIMUM 1/8" BEYOND PERIMETER OF FASTENER HEADS

1/8" X 1" METAL TERMINATION BAR FASTENED AT 8" SPACING AND 2" FROM EACH END

PRIMETAK DETAIL STRIP (12") -CENTERED OVER JOINT AND PM SEALANT CANT STRIP.

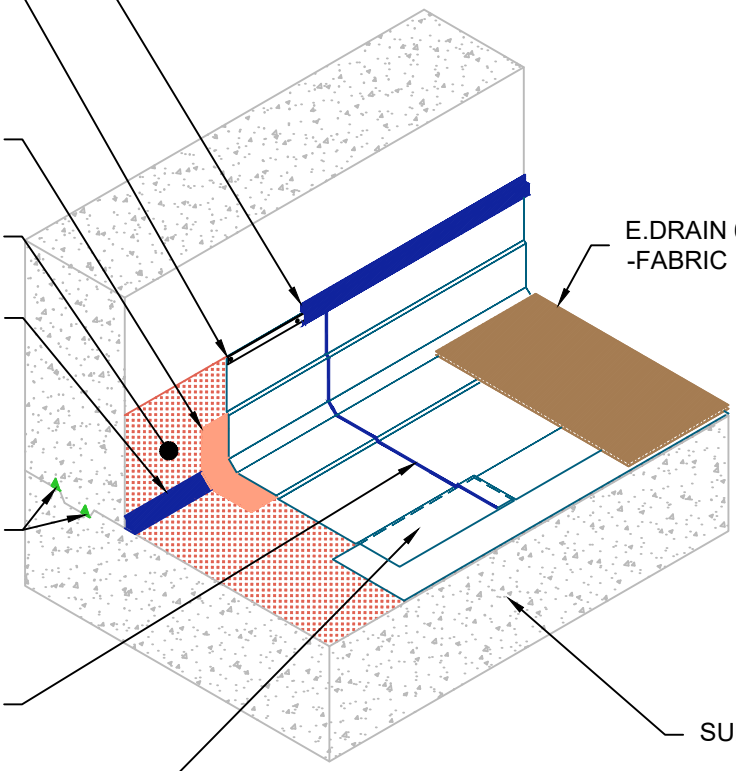
PRIMETAK PRIMER

3/4" FILLET OF PM SEALANT -ALLOW TO CURE FOR 2 HOURS BEFORE DETAIL STRIP APPLICATION
NOTE: DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

BENTOTAK (1 1/4" MIN. CONCRETE COVER FROM EDGE OF WALL AND IN BETWEEN STRIPS)

PM SEALANT A MINIMUM 12" ONTO SEAMS EXTENDING FROM WALL TO SLAB INTERSECTION

PRIMETAK APPLIED TO SUBSTRATES PREPARED WITH PRIMETAK PRIMER -OVERLAPS MINIMUM 2 1/2" SIDE AND 6" END LAPS - SHINGLE LAP TO DRAIN



E.DRAIN 6000 -FABRIC FACING FILL

SUBSTRATE

G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.430.1.1 DECK ASSEMBLY - NON-HYDROSTATIC - ISOMETRIC - VERTICAL TERMINATION.dwg [Detail] April 27, 2021 - 9:09am

DECK ASSEMBLY - NON-HYDROSTATIC - ISOMETRIC - VERTICAL TERMINATION

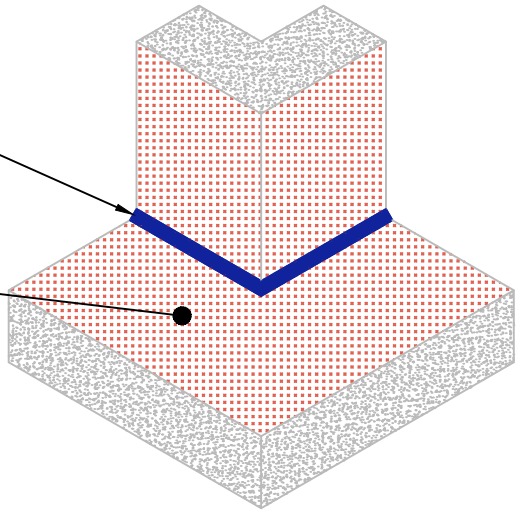
SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.430.1.1
DRAFTER	DATE
RJT	4/26/2021

PRIMETAK

NTS

STEP 1:
3/4" FILLET OF PM SEALANT APPLIED TO INSIDE CORNERS VERTICALLY AND HORIZONTALLY TO RAW CONCRETE - ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE CORNER APPLICATION

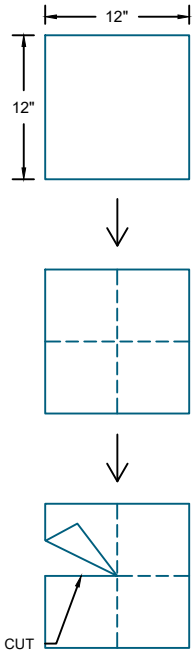
STEP 2:
PREPARE CONCRETE SURFACE WITH PRIMETAK PRIMER

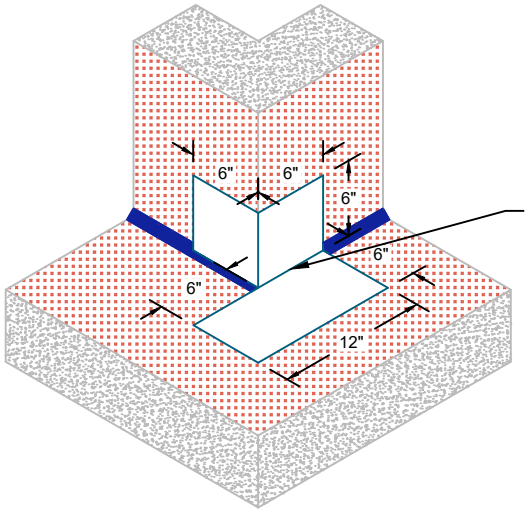


STEP A:
CUT A 12"X12" PRIMETAK SQUARE

STEP B:
FOLD THE SQUARE IN HALF IN BOTH DIRECTIONS TO FIND THE CENTER OF THE PRIMETAK SQUARE

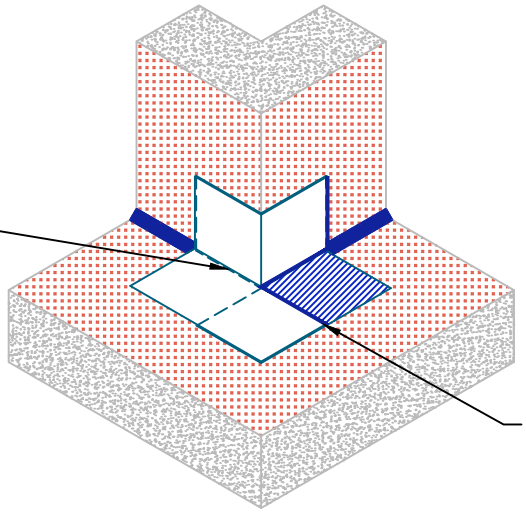
STEP C:
CUT ONE FOLD LINE TO THE CENTER OF THE PRIMETAK SQUARE





STEP 3:
1) CUT PRIMETAK SQUARE (12"X12") AND FOLLOW STEPS A, B, AND C.
2) APPLY SQUARE TO CORNER, ADHERE HORIZONTAL LEG, AND WRAP VERTICAL FLAP AROUND CORNER.

STEP 4:
1) CUT PRIMETAK SQUARE (12"X12") AND FOLLOW STEPS A, B, AND C.
2) APPLY SQUARE TO CORNER, ADHERE HORIZONTAL LEG AND EXTEND OVER PRIMETAK, AND WRAP VERTICAL FLAP AROUND CORNER AND ADHERE OVER PRIMETAK



STEP 5:
APPLY PM SEALANT TO CUT EDGES AND TERMINATIONS OF PRIMETAK MEMBRANE

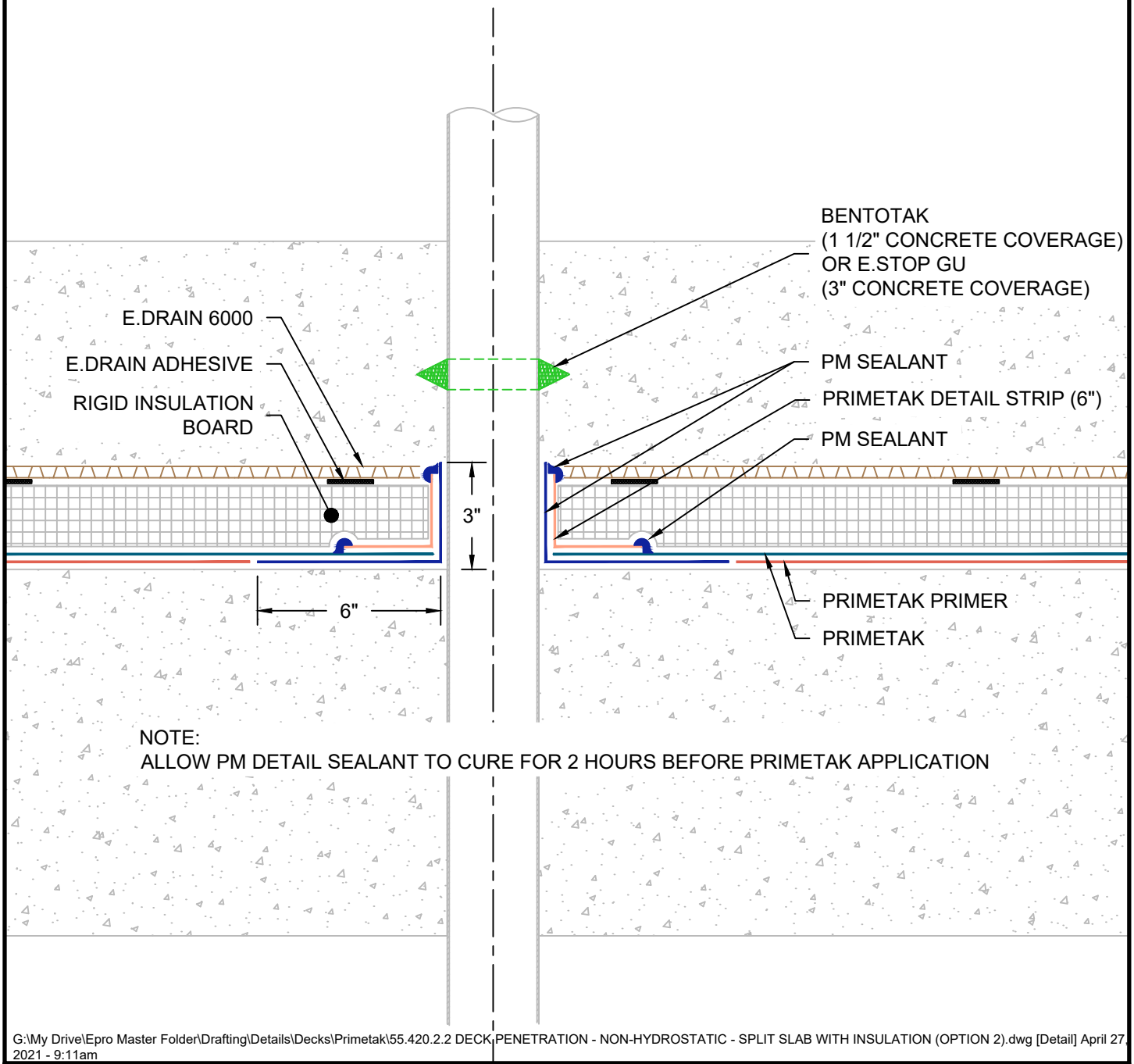
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.263.1 CORNER - OUTSIDE - FULLY ADHERED FIELD FORMED.dwg [Detail] April 27, 2021 - 8:24am

CORNER - OUTSIDE - FULLY ADHERED FIELD FORMED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.263.1
DRAFTER	DATE
RJT	4/26/2021

PRIMETAK

NTS



NOTE:
ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION

G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.420.2.2 DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 2).dwg [Detail] April 27, 2021 - 9:11am

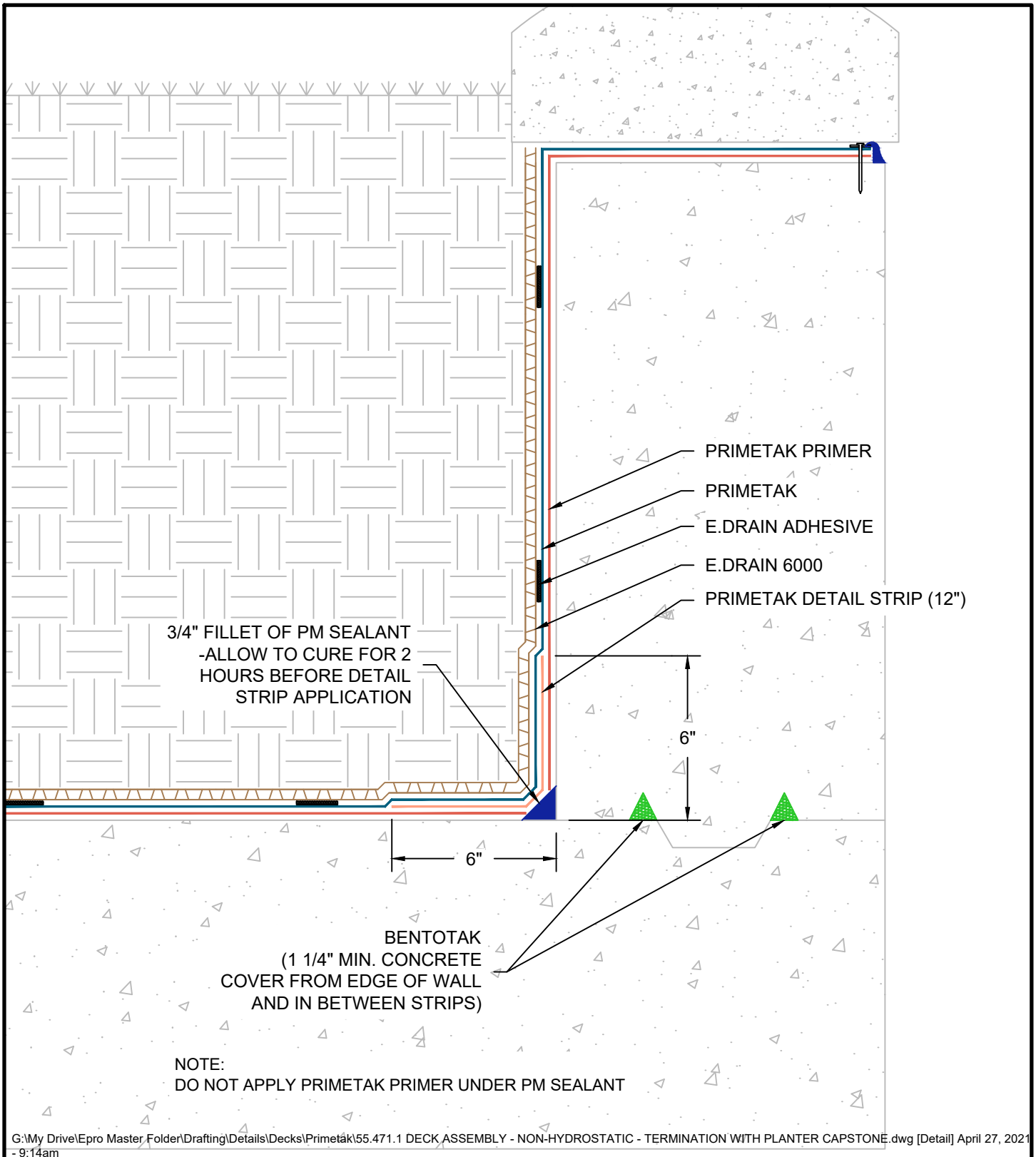
DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 2)

epro

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.420 2.2
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTE:
DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

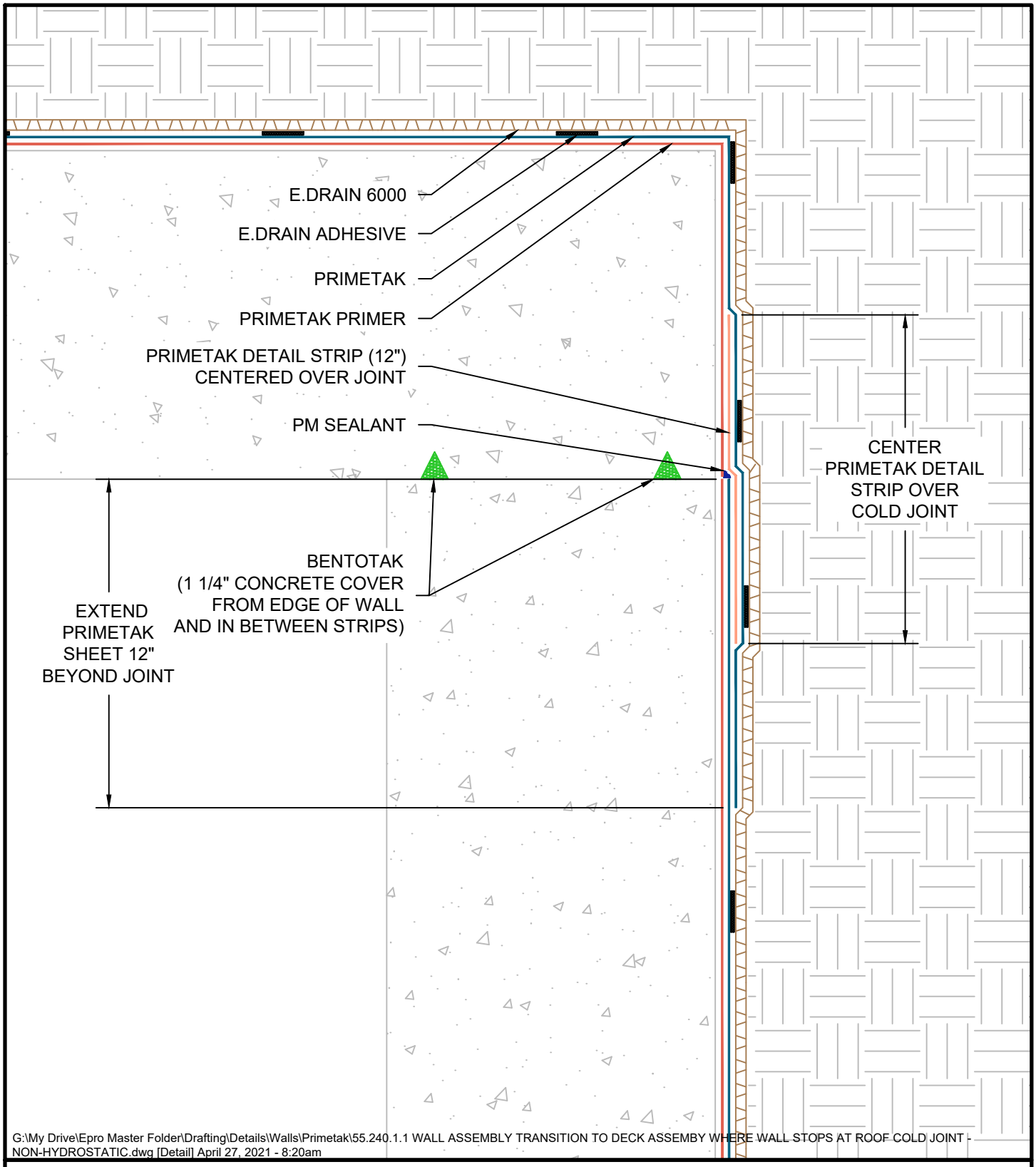
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.471.1 DECK ASSEMBLY - NON-HYDROSTATIC - TERMINATION WITH PLANTER CAPSTONE.dwg [Detail] April 27, 2021 - 9:14am

DECK ASSEMBLY - NON-HYDROSTATIC - TERMINATION WITH PLANTER CAPSTONE

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.471.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



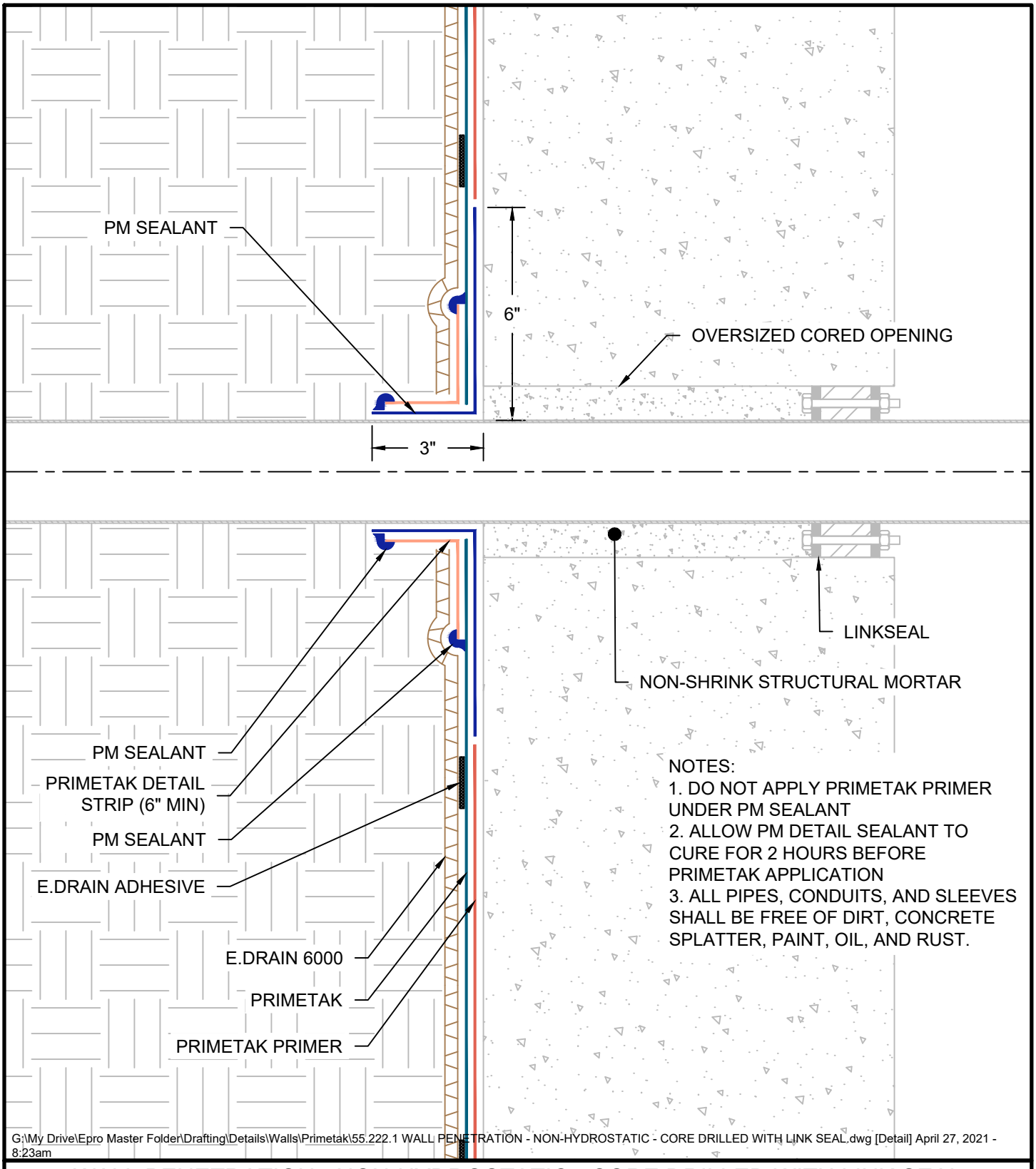
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.240.1.1 WALL ASSEMBLY TRANSITION TO DECK ASSEMBY WHERE WALL STOPS AT ROOF COLD JOINT - NON-HYDROSTATIC.dwg [Detail] April 27, 2021 - 8:20am

WALL TO DECK TRANSITION - NON-HYDROSTATIC - WALL PRIMETAK STOPPED AT CONSTRUCTION JOINT

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.240.1.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTES:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT
2. ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION
3. ALL PIPES, CONDUITS, AND SLEEVES SHALL BE FREE OF DIRT, CONCRETE SPLATTER, PAINT, OIL, AND RUST.

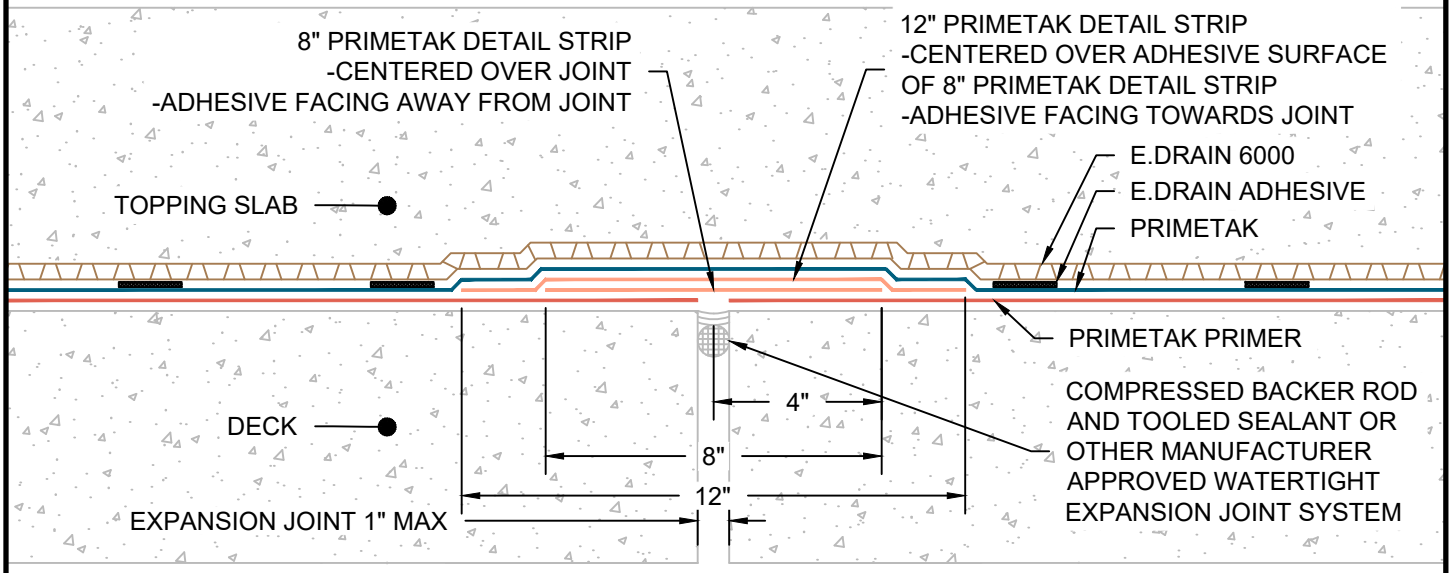
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.222.1 WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED WITH LINK SEAL.dwg [Detail] April 27, 2021 - 8:23am

WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED WITH LINK SEAL

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.222.1
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



NOTES:
1. DETAIL IS DESIGNED TO ACCOMMODATE 50% (MAX.) TOTAL MOVEMENT.
2. BACKER ROD AND TOOLED SEALANT OR OTHER MANUFACTURER APPROVED WATERTIGHT EXPANSION JOINT SYSTEM ARE REQUIRED TO BE INSTALLED PRIOR TO PRIMETAK INSTALLATION.

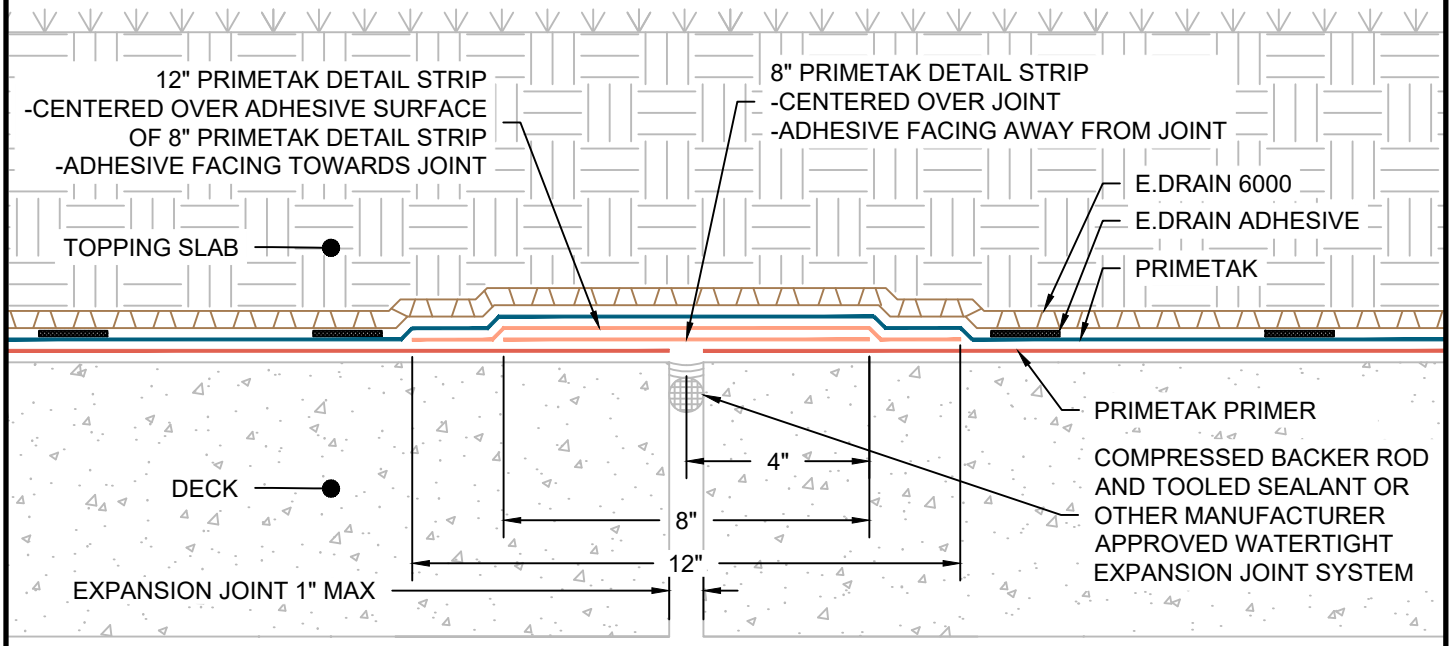
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.450.1 DECK CRACK AND JOINT TREATMENT - EXPANSION JOINT.dwg [Detail] April 27, 2021 - 9:08am

DECK CRACK AND JOINT TREATMENT - NON-HYDROSTATIC - EXPANSION JOINT WITH SPLIT SLAB

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.450.1
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



NOTES:
1. DETAIL IS DESIGNED TO ACCOMMODATE 50% (MAX.) TOTAL MOVEMENT.
2. BACKER ROD AND TOOLED SEALANT OR OTHER MANUFACTURER APPROVED WATERTIGHT EXPANSION JOINT SYSTEM ARE REQUIRED TO BE INSTALLED PRIOR TO PRIMETAK INSTALLATION.

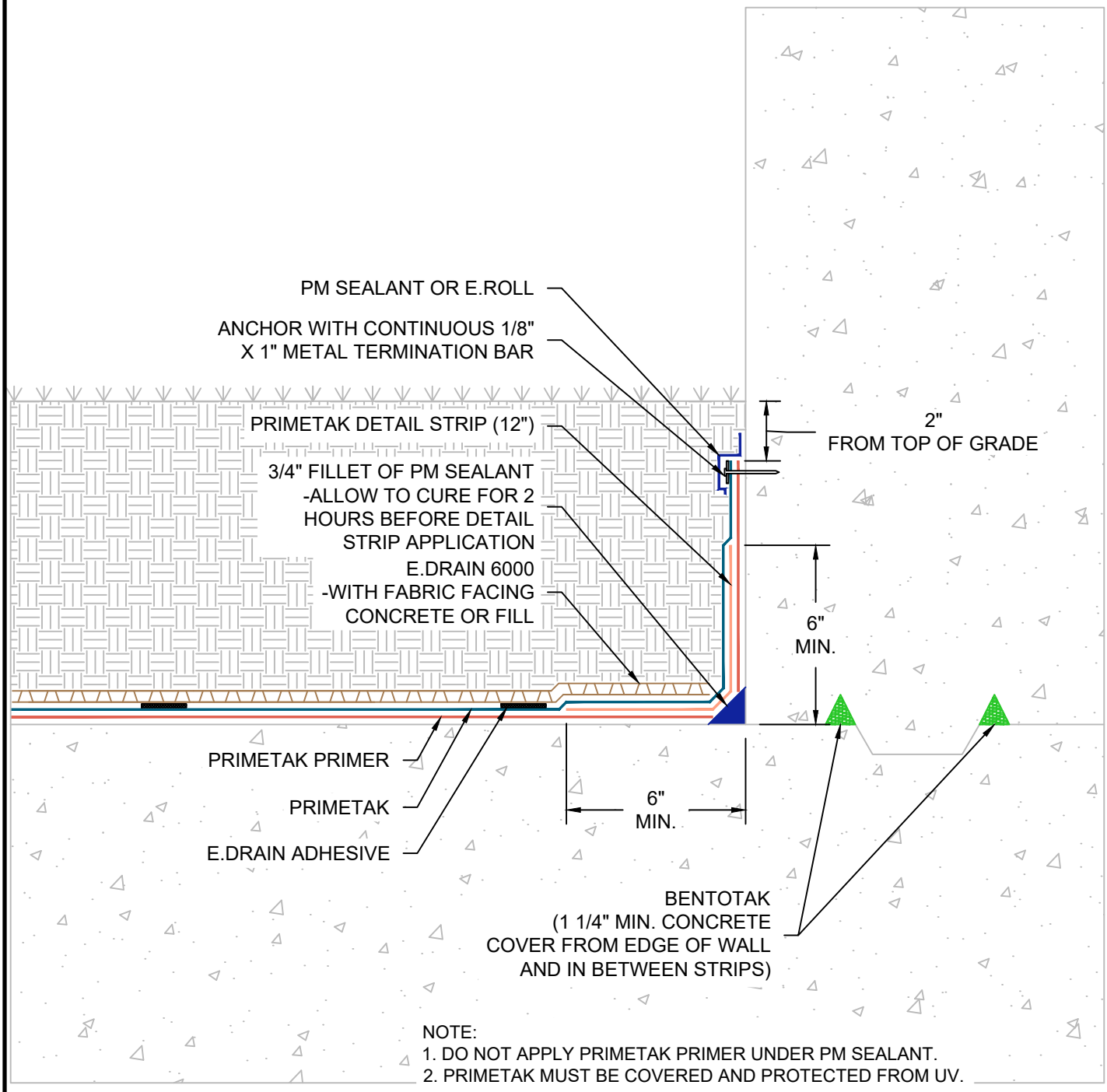
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.450.7 COVERED DECK TO DECK EXPANSION JOINT -NON-HYDROSTATIC.dwg [Detail] April 27, 2021 - 9:15am

DECK CRACK AND JOINT TREATMENT - NON-HYDROSTATIC - EXPANSION JOINT WITH SOIL FILL

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.450.7
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



NOTE:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT.
2. PRIMETAK MUST BE COVERED AND PROTECTED FROM UV.

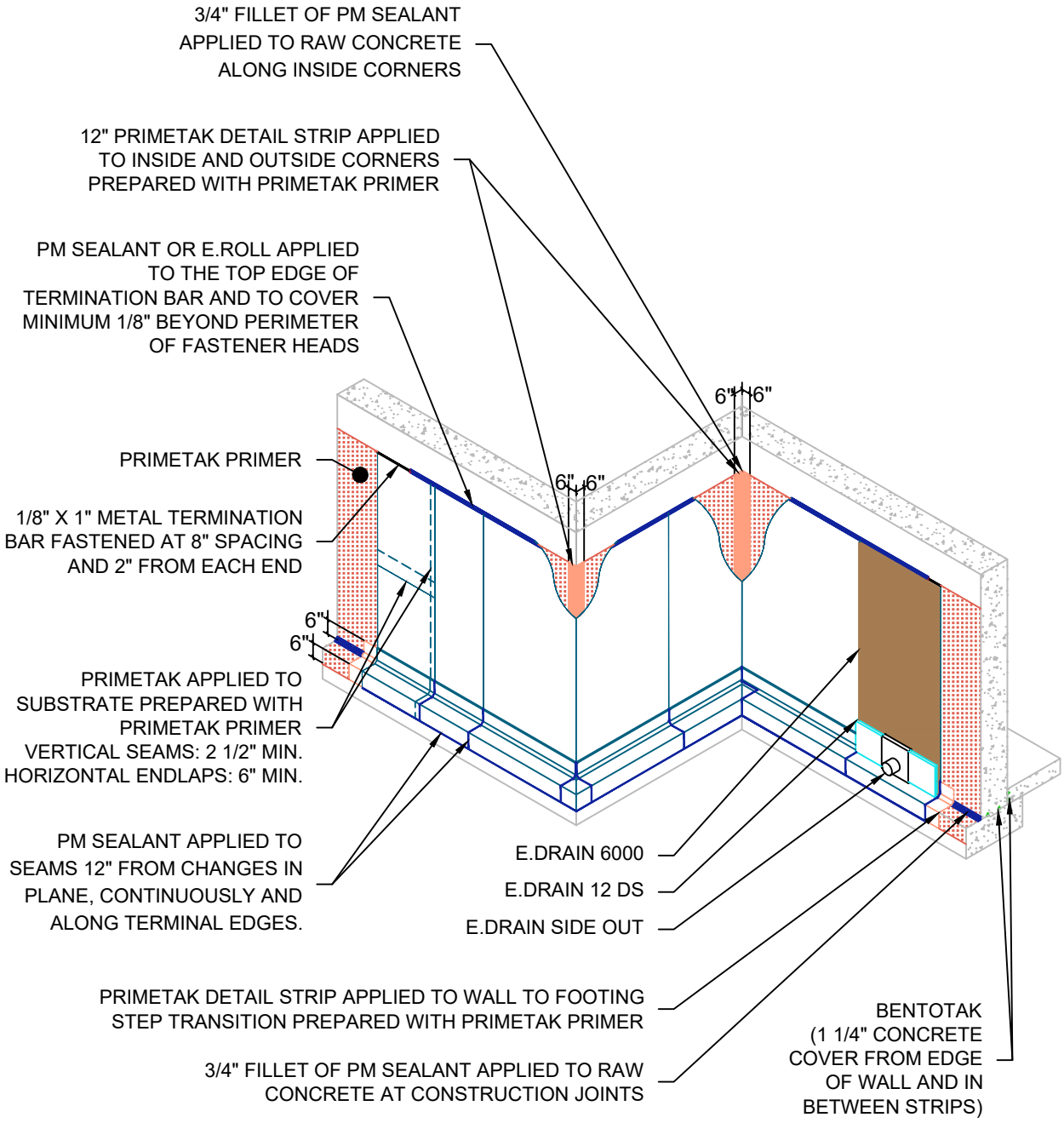
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.430.2 DECK ASSEMBLY - NON-HYDROSTATIC - VERTICAL TERMINATION WITH SOIL FILL.dwg [Detail] April 27, 2021 - 9:08am

DECK ASSEMBLY - NON-HYDROSTATIC - VERTICAL TERMINATION WITH SOIL FILL

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.430.2
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



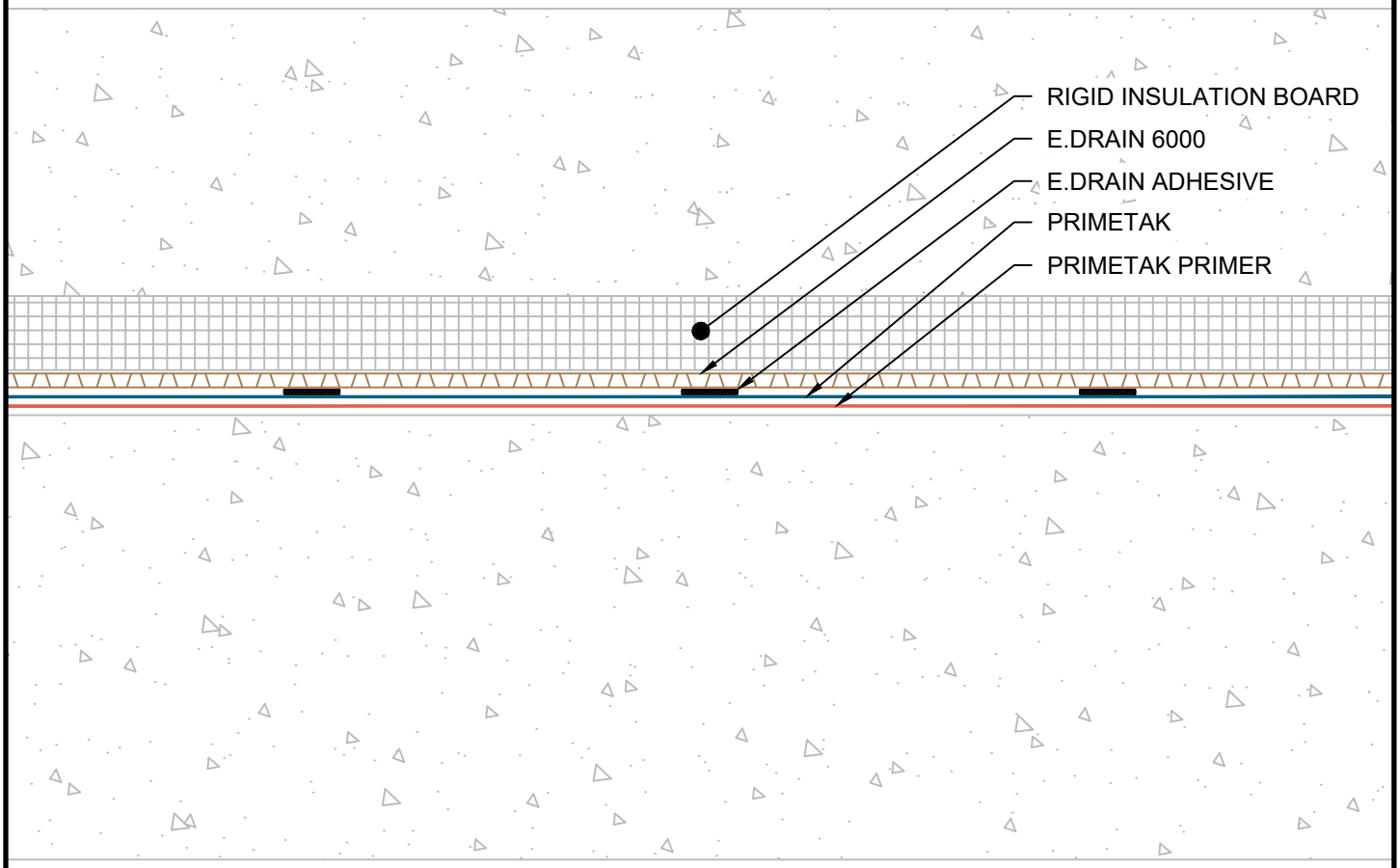
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.800.1 PRIMETAK ASSEMBLY - ISOMETRIC - POST-APPLIED WALL WITH STEPPED FOOTING.dwg [55.800.1] April 27, 2021 - 9:07am

PRIMETAK ASSEMBLY - ISOMETRIC - POST-APPLIED WALL WITH STEPPED FOOTING

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.800.1
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



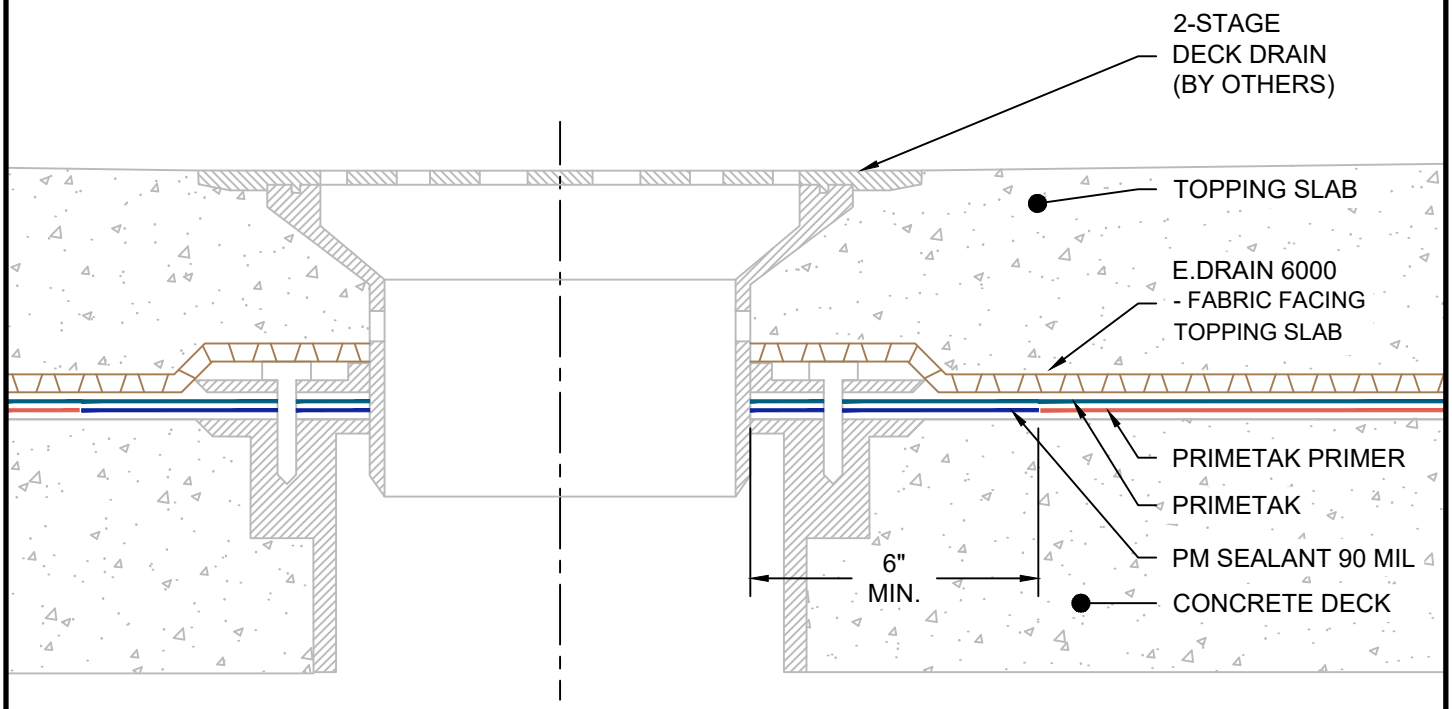
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.400.2.1 DECK ASSEMBLY - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 1).dwg [Detail] April 27, 2021 - 9:13am

DECK ASSEMBLY - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 1)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.400.2.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTE:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT
2. ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION

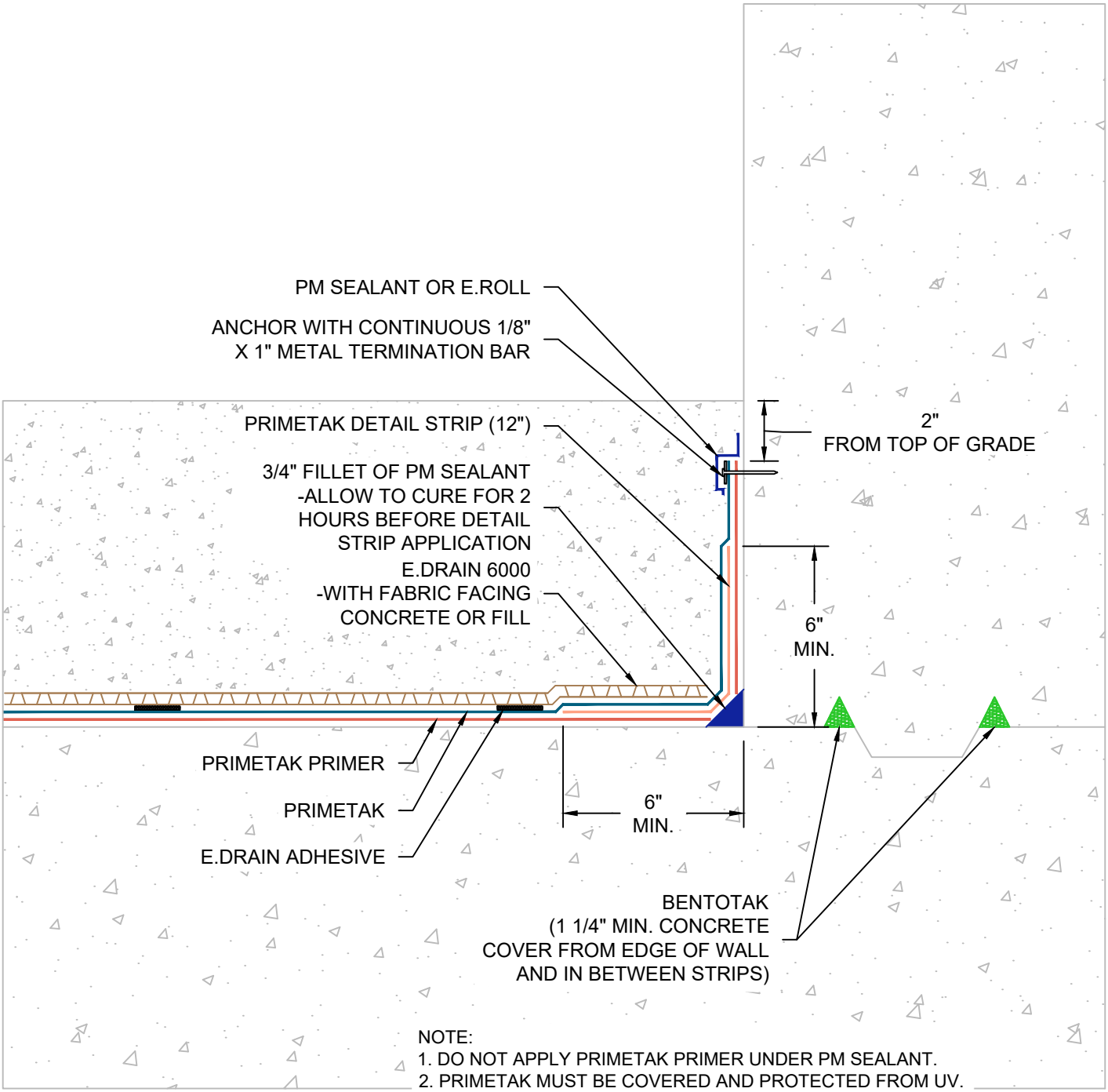
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.425.1 DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB WITH 2-STAGE DRAIN.dwg [Detail] April 27, 2021 - 9:10am

DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB WITH 2-STAGE DRAIN

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.425.1
DRAFTER	DATE
RJT	3/16/2021

PRIMETAK

NTS



NOTE:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT.
2. PRIMETAK MUST BE COVERED AND PROTECTED FROM UV.

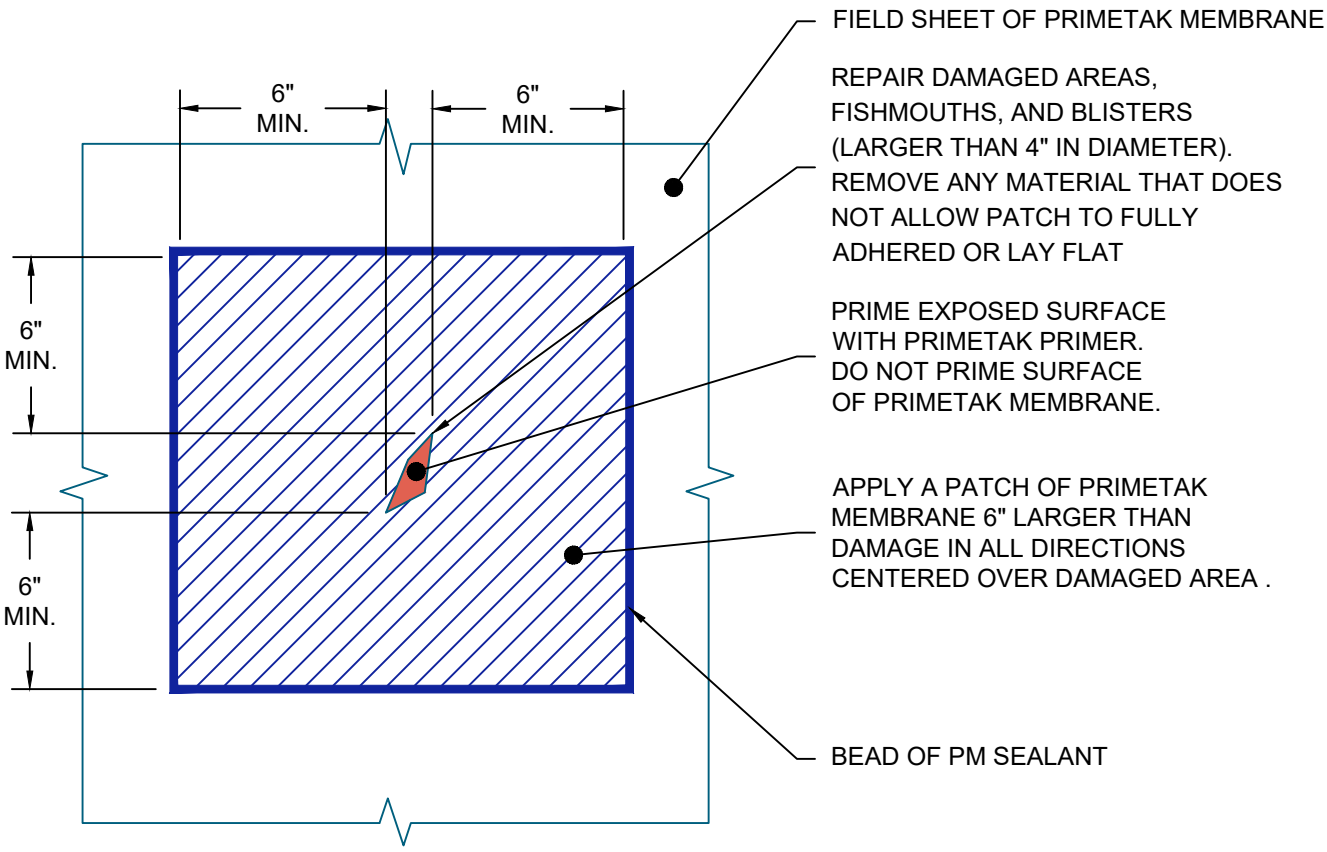
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.430.1 DECK ASSEMBLY - NON-HYDROSTATIC - VERTICAL TERMINATION WITH SPLIT SLAB.dwg [Detail] April 27, 2021 - 9:09am

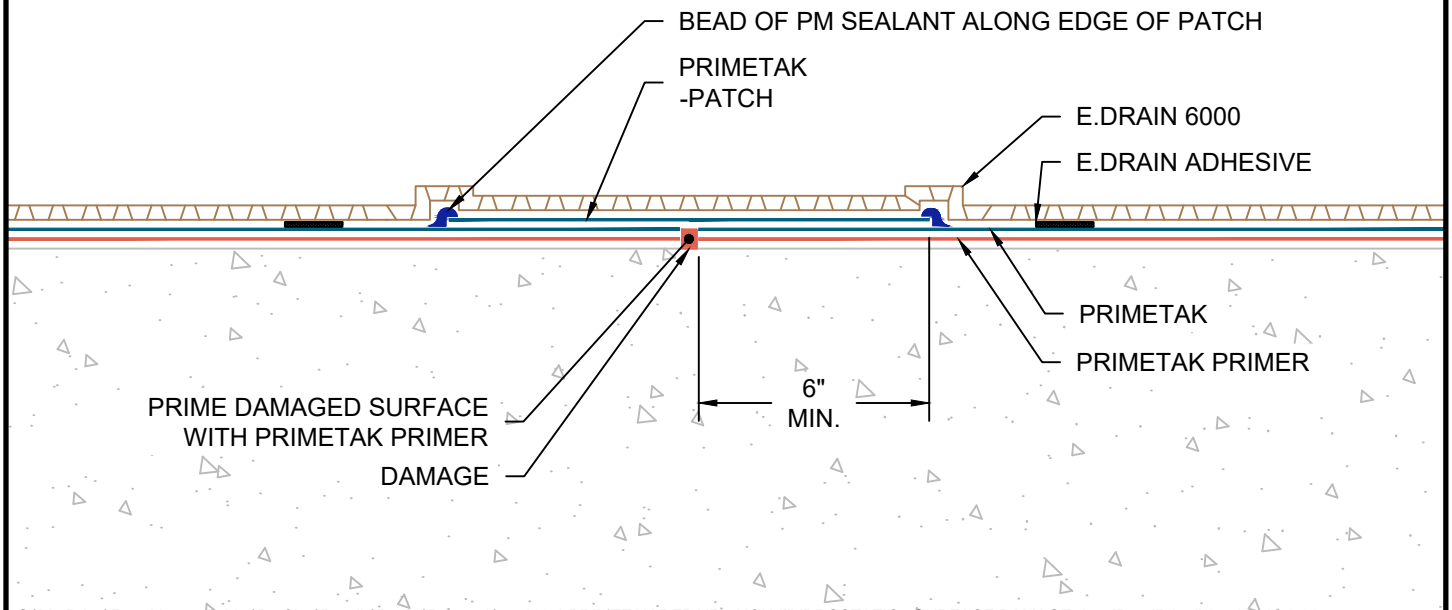
DECK ASSEMBLY - NON-HYDROSTATIC - VERTICAL TERMINATION WITH SPLIT SLAB

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.430.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS





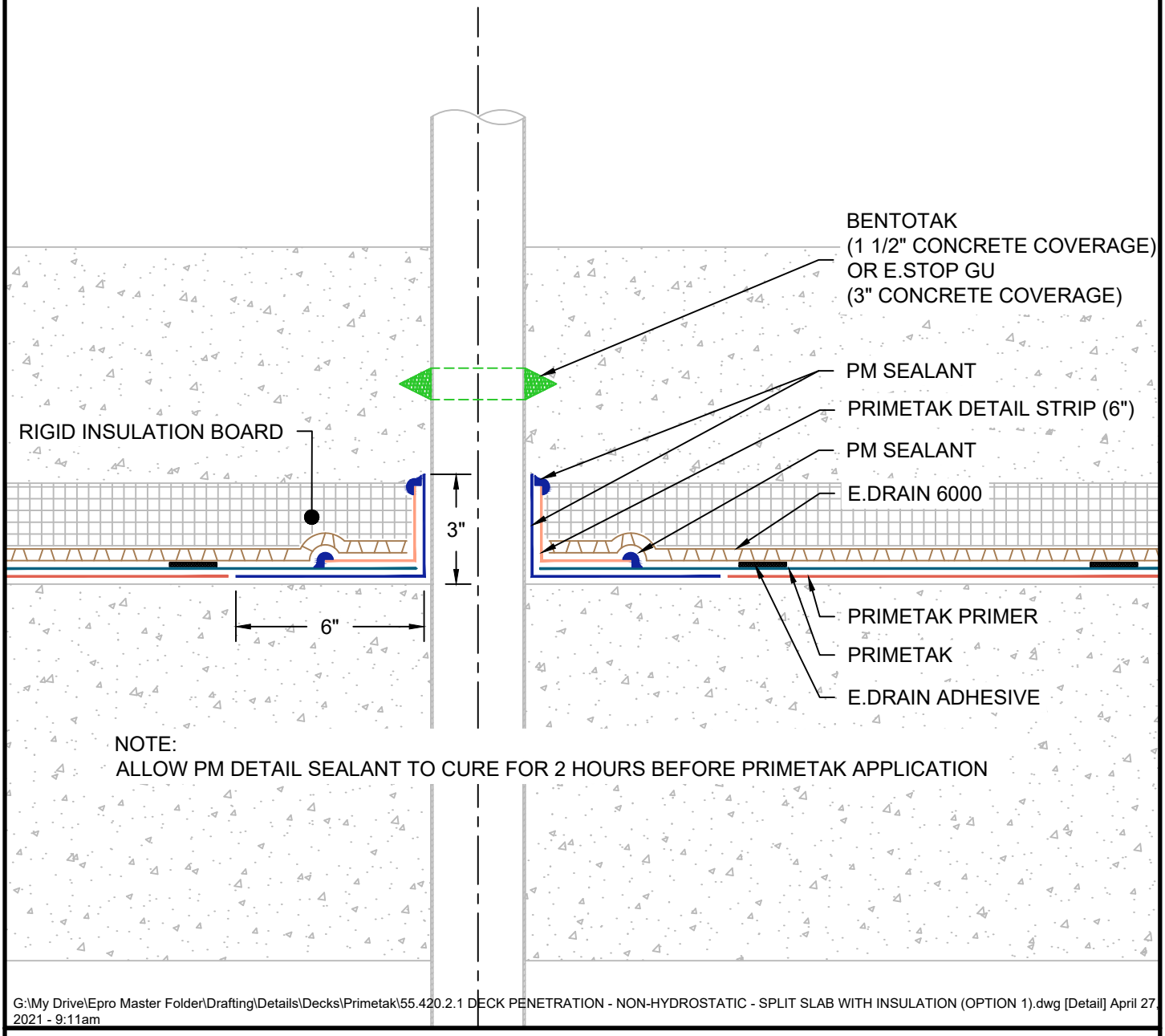
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.480.1 PRIMETAK REPAIR - NON-HYDROSTATIC - SURFACE DAMAGE.dwg [Detail] April 27, 2021 - 9:06am

PRIMETAK REPAIR - NON-HYDROSTATIC - SURFACE DAMAGE

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.480.1
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



NOTE:
ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION

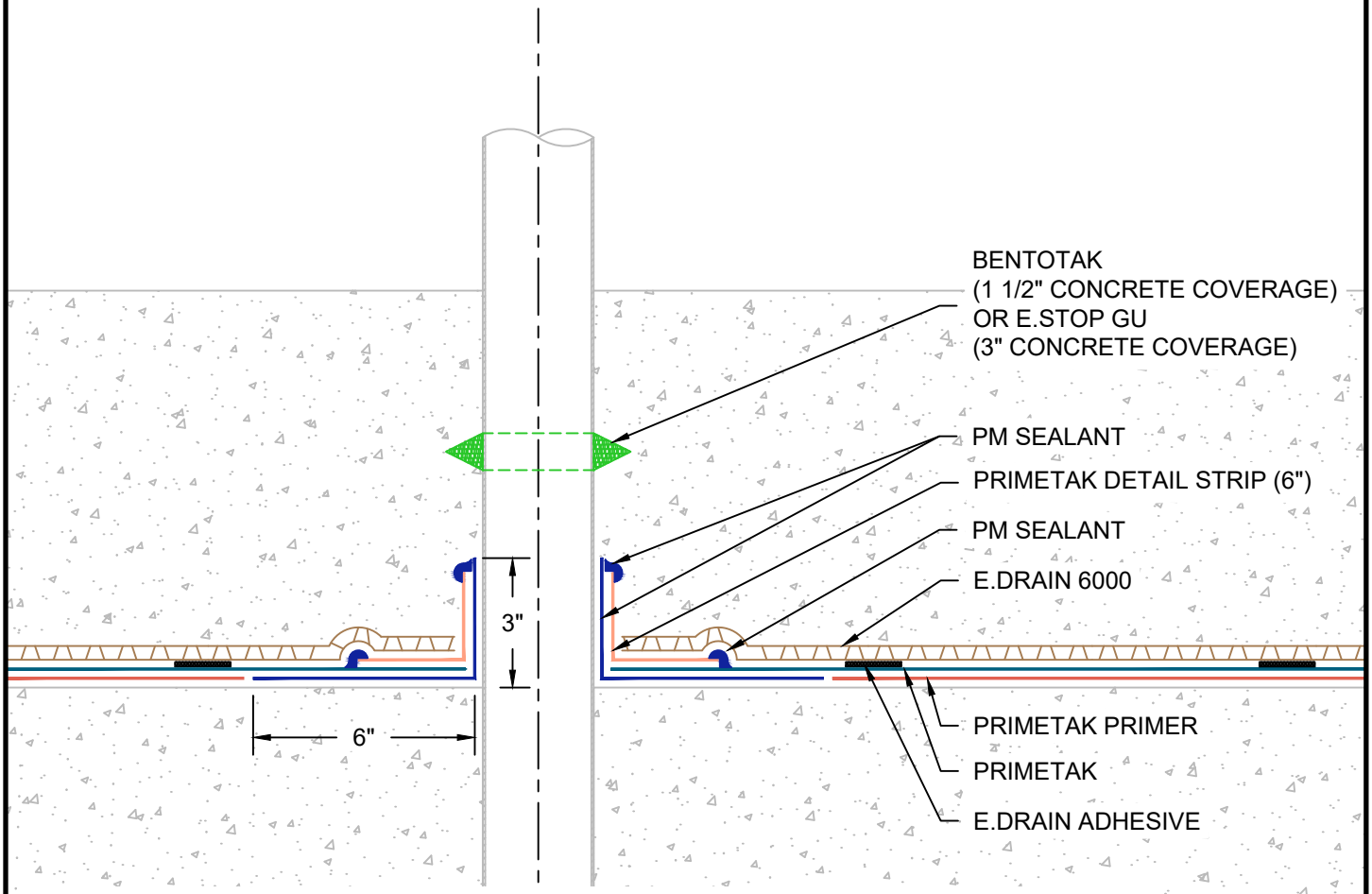
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.420.2.1 DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 1).dwg [Detail] April 27, 2021 - 9:11am

DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 1)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.420 2.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTE:
ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION

G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.420.1 DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB.dwg [Detail] April 27, 2021 - 9:11am

DECK PENETRATION - NON-HYDROSTATIC - SPLIT SLAB

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.420 1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

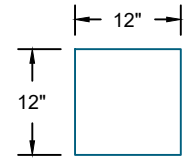
NTS

STEP 1:
3/4" FILLET OF PM SEALANT APPLIED TO INSIDE CORNERS VERTICALLY AND HORIZONTALLY TO RAW CONCRETE - ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE CORNER APPLICATION

STEP 2:
PREPARE CONCRETE SURFACE WITH PRIMETAK PRIMER

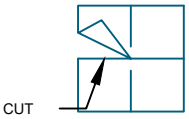
STEP 3:
1) CUT PRIMETAK SQUARE (12"X12") AND FOLLOW STEPS A, B, AND C.
2) APPLY SQUARE TO CORNER, ADHERE HORIZONTAL LEG, AND WRAP VERTICAL FLAP AROUND CORNER.

STEP A:
CUT A 12"X12" PRIMETAK SQUARE

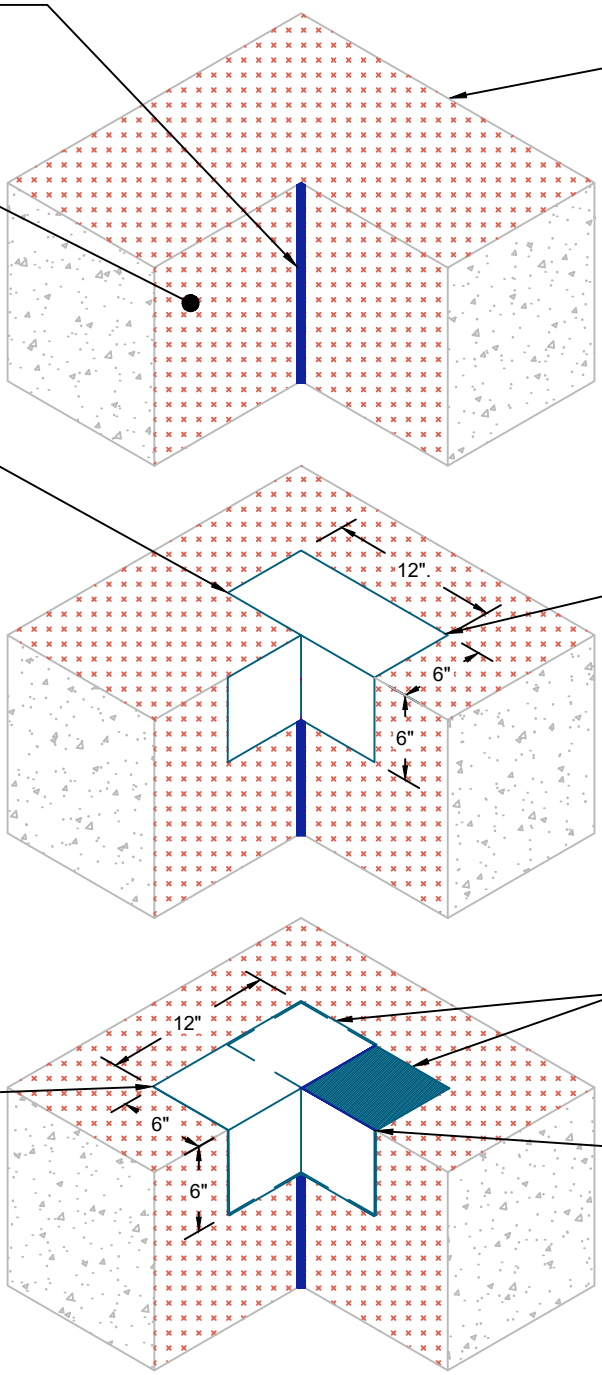


STEP B:
FOLD THE SQUARE IN HALF IN BOTH DIRECTIONS TO FIND THE CENTER OF THE PRIMETAK SQUARE

STEP C:
CUT ONE FOLD LINE TO THE CENTER OF THE PRIMETAK SQUARE



STEP 4:
1) CUT PRIMETAK SQUARE (12"X12") AND FOLLOW STEPS A, B, AND C.
2) APPLY SQUARE TO CORNER, ADHERE HORIZONTAL LEG AND EXTEND OVER PRIMETAK, AND WRAP VERTICAL FLAP AROUND CORNER AND ADHERE OVER PRIMETAK



STEP 5:
APPLY PM SEALANT TO CUT EDGES AND TERMINATIONS OF PRIMETAK MEMBRANE

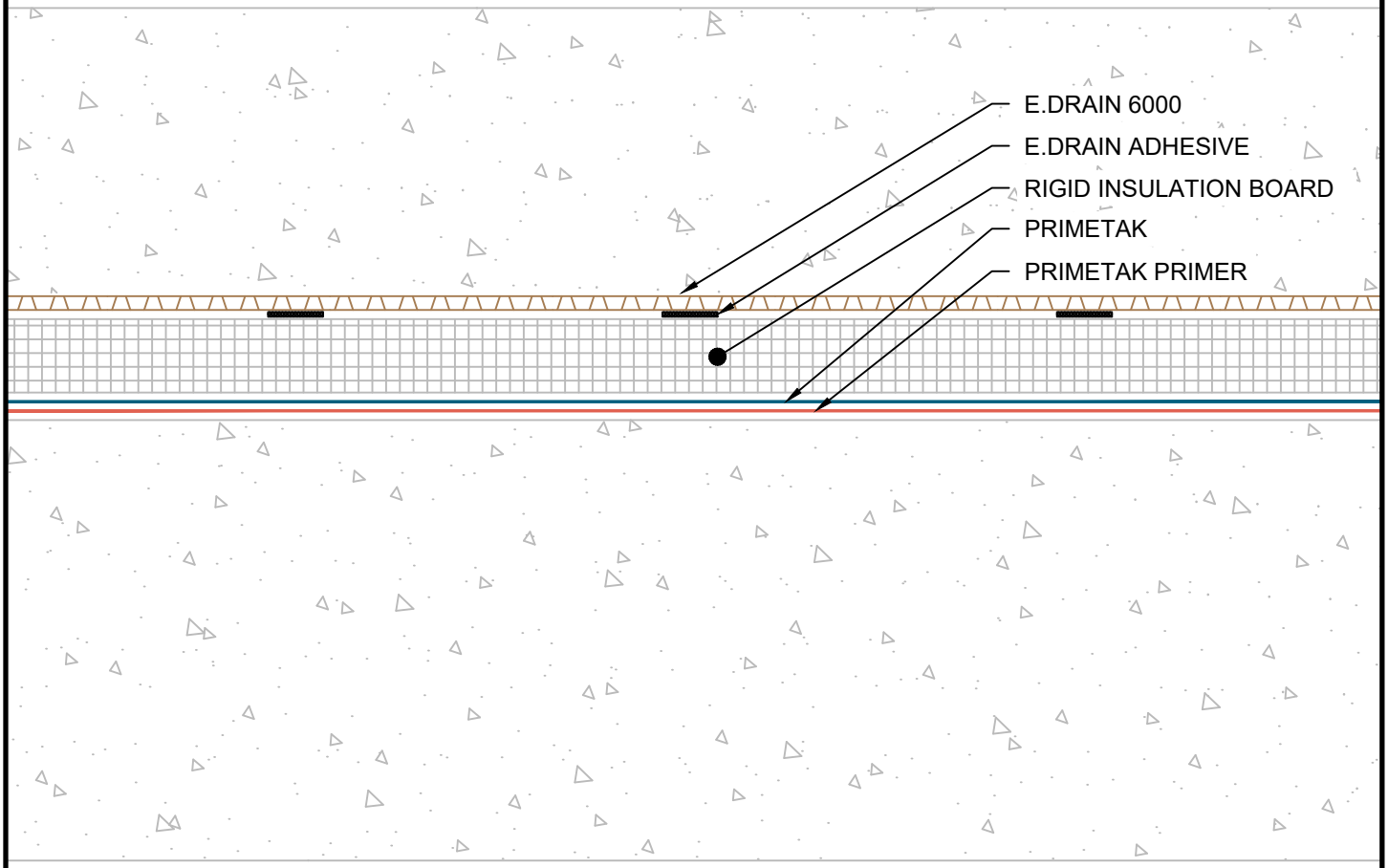
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.381.4 CORNER - TOPSIDE - FIELD FORMED.dwg [Detail] April 27, 2021 - 8:18am

CORNER - TOPSIDE - INSIDE - FULLY ADHERED FIELD FORMED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.381.4
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.400.2.2 DECK ASSEMBLY - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 2).dwg [Detail] April 27, 2021 - 9:13am

DECK ASSEMBLY - NON-HYDROSTATIC - SPLIT SLAB WITH INSULATION (OPTION 2)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.400.2.2
DRAFTER	DATE
RJT	2/23/2021

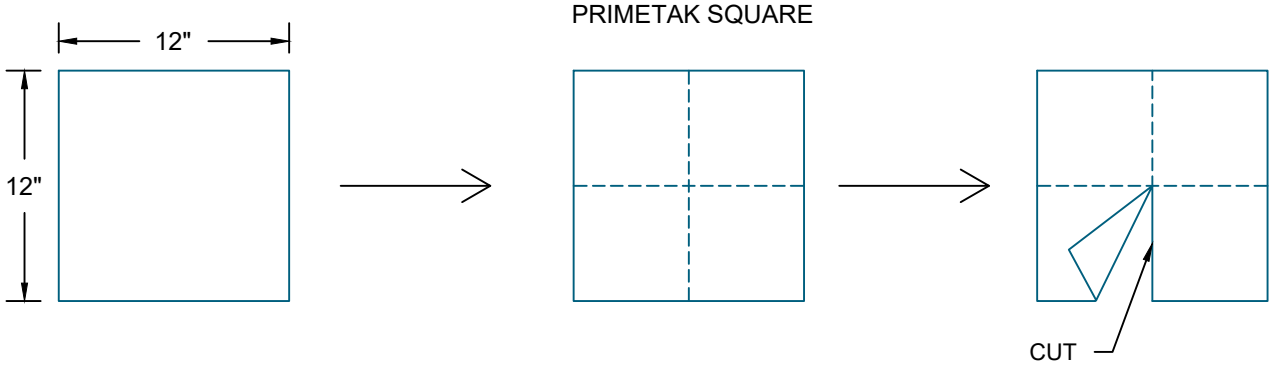
PRIMETAK

NTS

STEP 1:
CUT A 12"X12"
PRIMETAK SQUARE

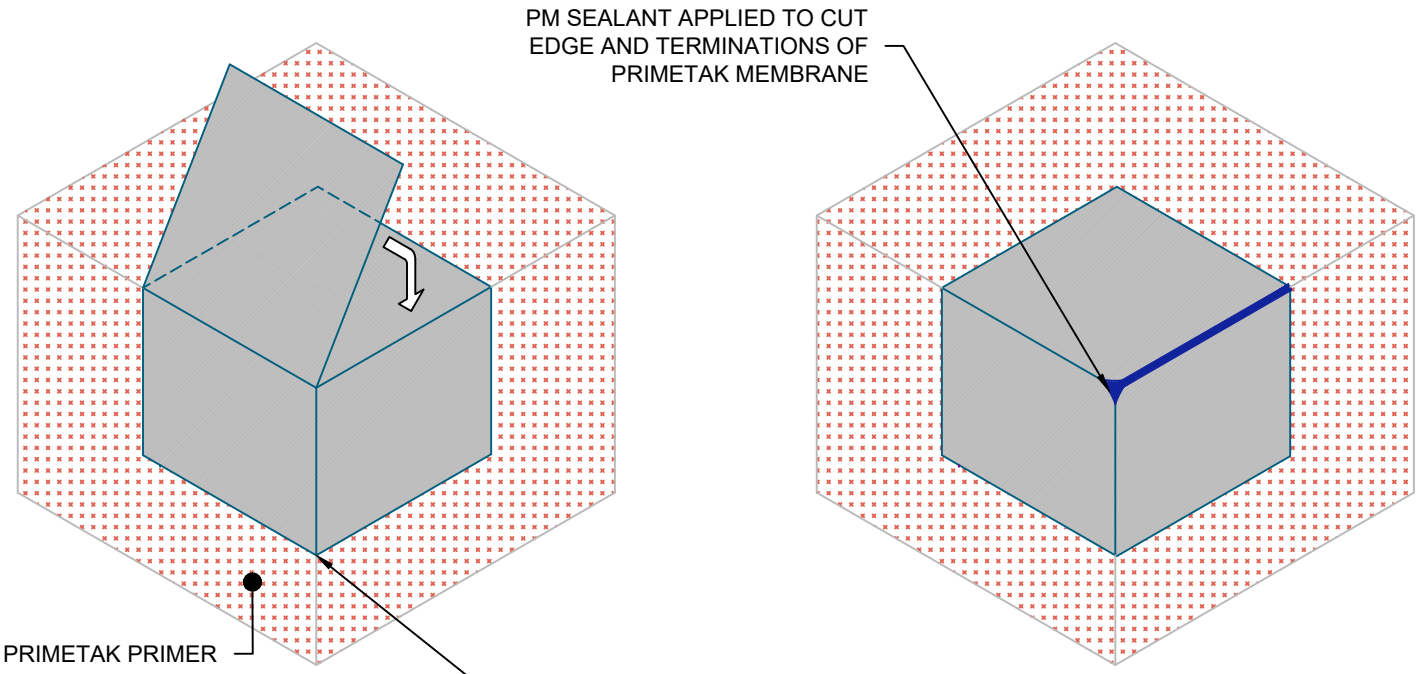
STEP 2:
FOLD THE SQUARE IN
HALF IN BOTH
DIRECTIONS TO FIND
THE CENTER OF THE
PRIMETAK SQUARE

STEP 3:
CUT ONE FOLD LINE TO
THE CENTER OF THE
PRIMETAK SQUARE



STEP 4:

STEP 5:



NOTE:
DO NOT APPLY PRIMETAK
PRIMER UNDER PM SEALANT

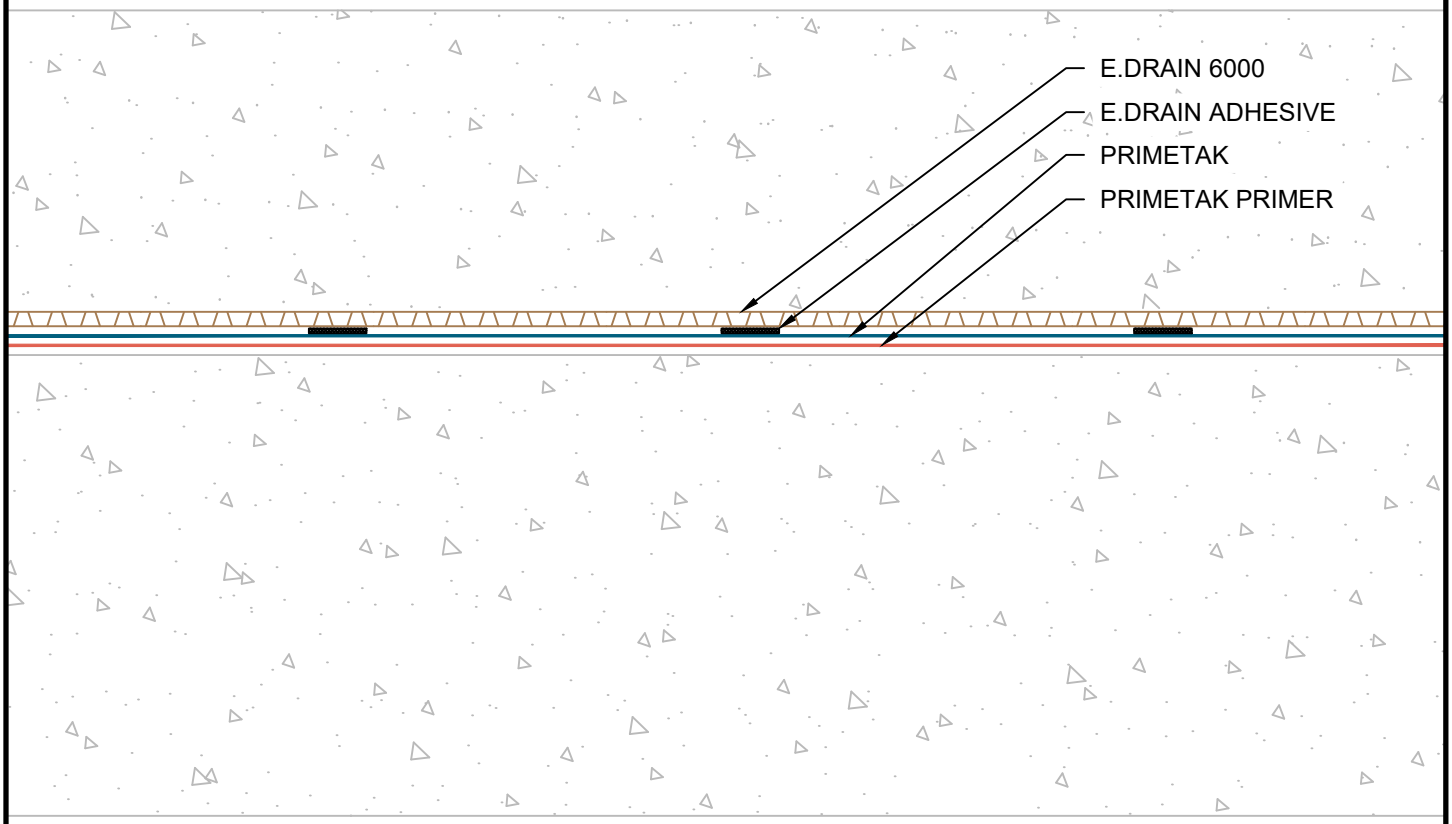
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.262.3 FIELD FORMED SELF ADHERED OUTSIDE CORNER - NON-HYDROSTATIC.dwg [Detail] April 27, 2021 - 8:18am

CORNER - TOPSIDE - OUTSIDE - FULLY ADHERED FIELD FORMED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.262.3
DRAFTER	DATE
RJT	4/26/2021

PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.400.1 DECK ASSEMBLY - NON-HYDROSTATIC - SPLIT SLAB.dwg [Detail] April 27, 2021 - 9:14am

DECK ASSEMBLY - NON-HYDROSTATIC - SPLIT SLAB

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.400.1
DRAFTER	DATE
RJT	2/23/2021

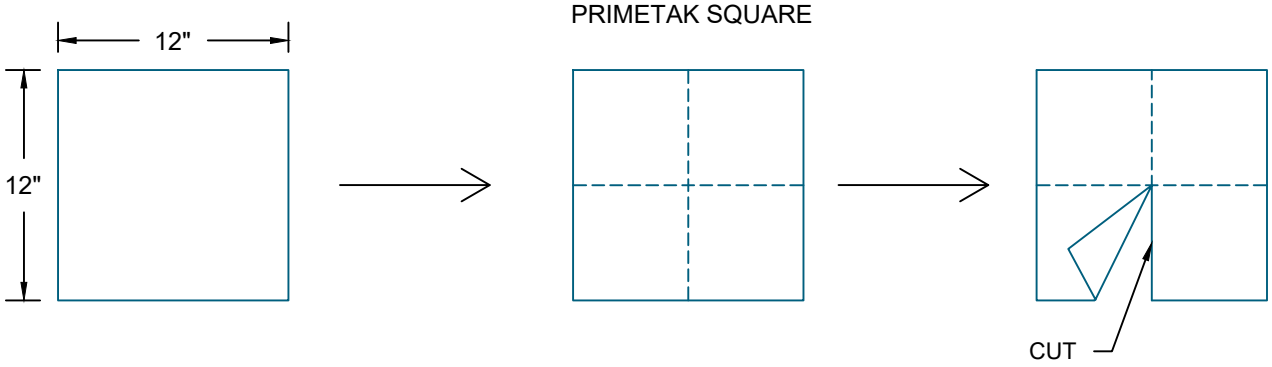
PRIMETAK

NTS

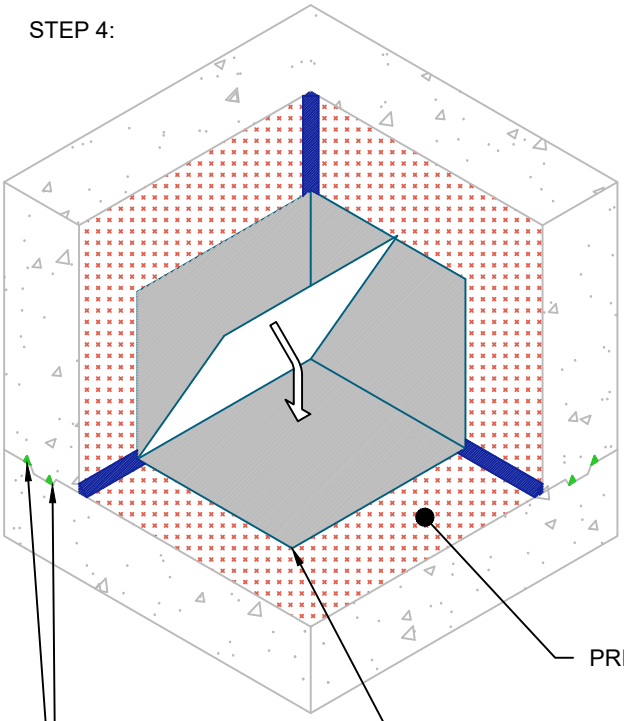
STEP 1:
CUT A 12"X12"
PRIMETAK SQUARE

STEP 2:
FOLD THE SQUARE IN
HALF IN BOTH
DIRECTIONS TO FIND
THE CENTER OF THE
PRIMETAK SQUARE

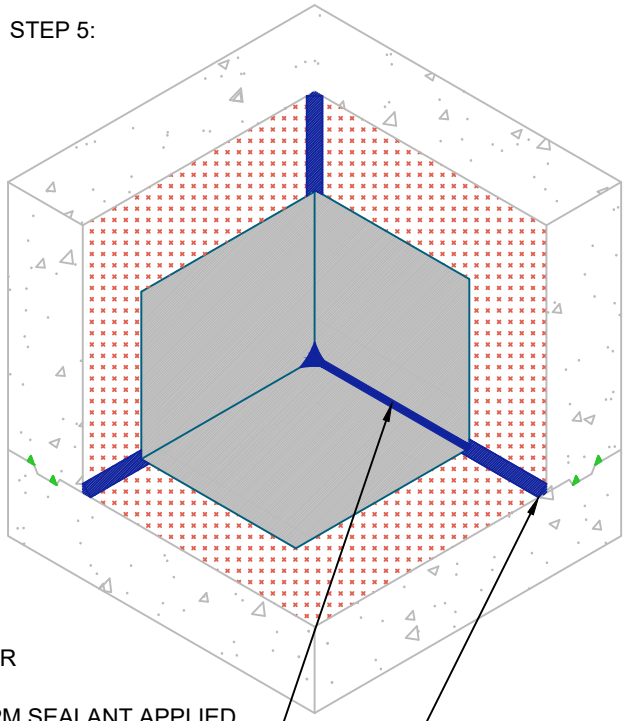
STEP 3:
CUT ONE FOLD LINE TO
THE CENTER OF THE
PRIMETAK SQUARE



STEP 4:



STEP 5:



PRIMETAK PRIMER

PIECE OF PRIMETAK
MEMBRANE CUT
AND FIT TO CORNER

PM SEALANT APPLIED
TO CUT EDGE AND
TERMINATIONS OF
PRIMETAK MEMBRANE

BENTOTAK
(1 1/4" MIN. CONCRETE COVER AND 1 1/4"
MIN. DISTANCE BETWEEN STRIPS)

3/4" FILLET OF PM SEALANT APPLIED
TO INSIDE CORNERS VERTICALLY AND
HORIZONTALLY TO RAW CONCRETE
- ALLOW PM SEALANT TO CURE FOR 2
HOURS BEFORE CORNER APPLICATION

NOTE:
DO NOT APPLY
PRIMETAK PRIMER
UNDER PM SEALANT

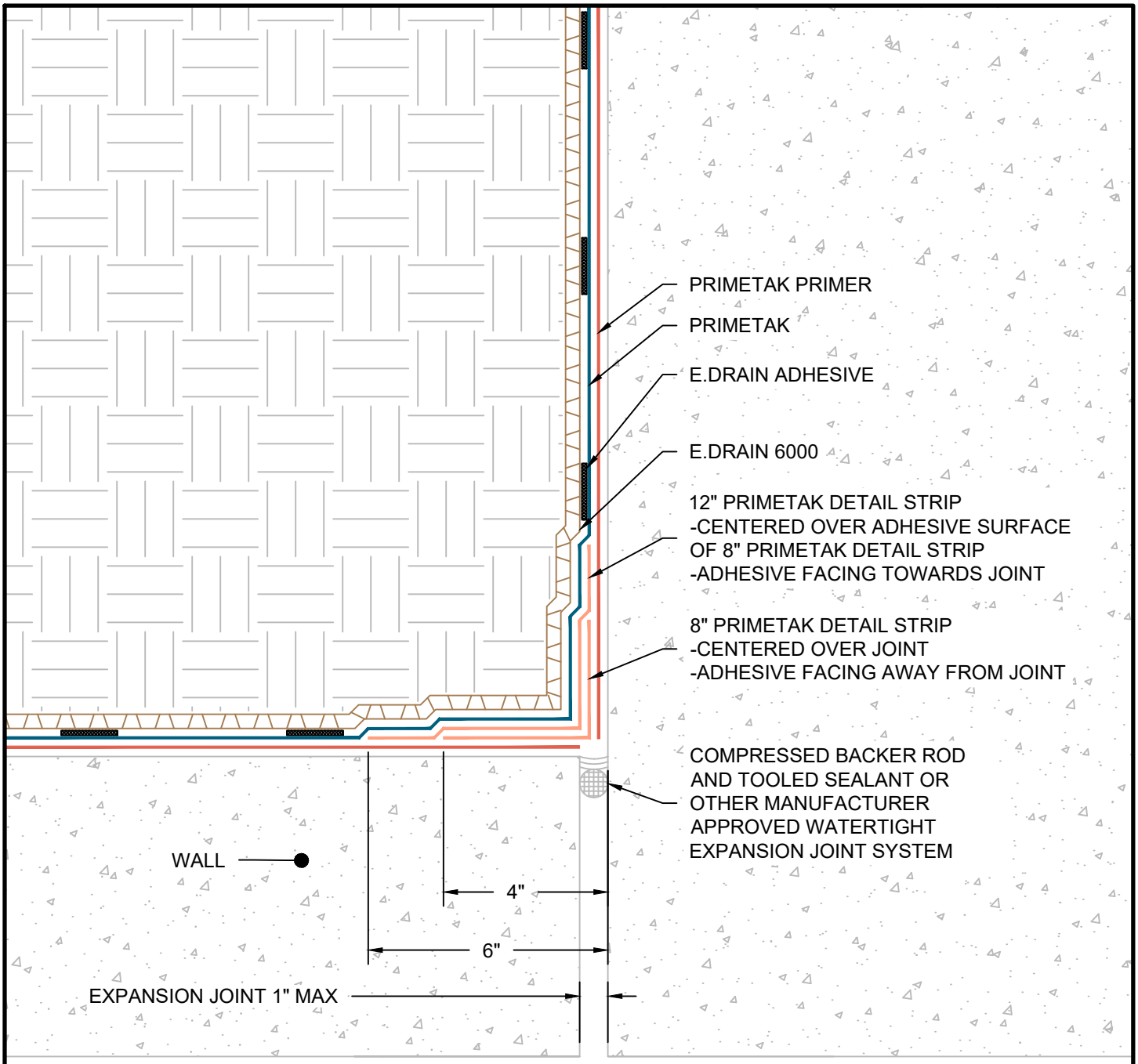
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.262.2 CORNER - INSIDE - FULLY ADHERED FIELD FORMED.dwg [Detail] April 27, 2021 - 9:21am

CORNER - INSIDE - FULLY ADHERED FIELD FORMED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.262.2
DRAFTER	DATE
RJT	4/26/2021

PRIMETAK

NTS



NOTES:
1. DETAIL IS DESIGNED TO ACCOMMODATE 50% (MAX.) TOTAL MOVEMENT.
2. BACKER ROD AND TOOLED SEALANT OR OTHER MANUFACTURER APPROVED WATERTIGHT EXPANSION JOINT SYSTEM ARE REQUIRED TO BE INSTALLED PRIOR TO PRIMETAK INSTALLATION.

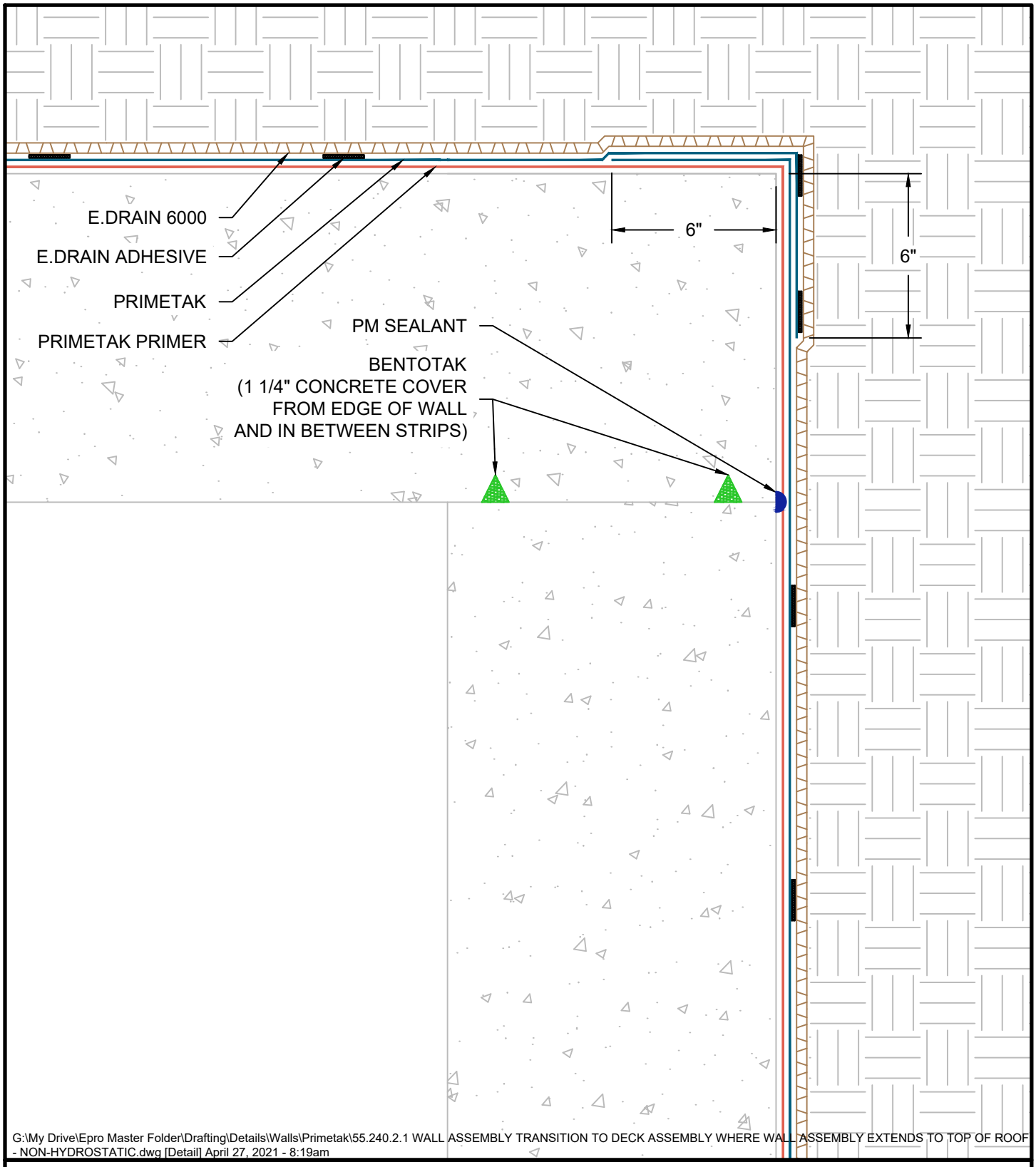
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.252.6. WALL CRACK AND JOINT TREATMENT - PLAN VIEW - EXPANSION JOINT - CORNER.dwg [Detail] April 27, 2021 - 8:19am

WALL CRACK AND JOINT TREATMENT - NON-HYDROSTATIC - PLAN VIEW - EXPANSION JOINT - CORNER

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.252.6
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.240.2.1 WALL ASSEMBLY TRANSITION TO DECK ASSEMBLY WHERE WALL ASSEMBLY EXTENDS TO TOP OF ROOF - NON-HYDROSTATIC.dwg [Detail] April 27, 2021 - 8:19am

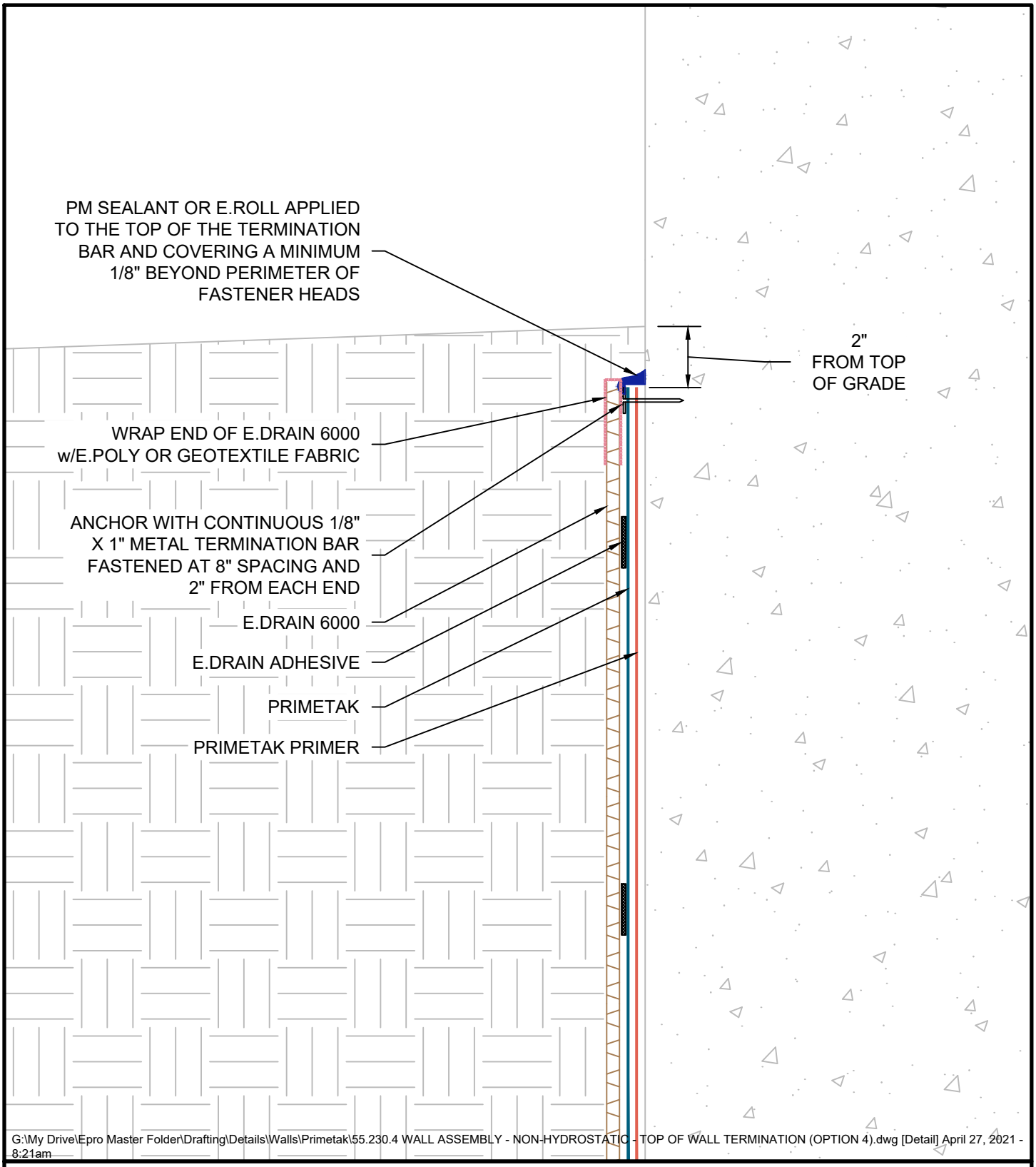
WALL TO DECK TRANSITION - NON-HYDROSTATIC - WALL PRIMETAK EXTENDED TO TOP OF DECK SLAB

epro

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.240.2.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



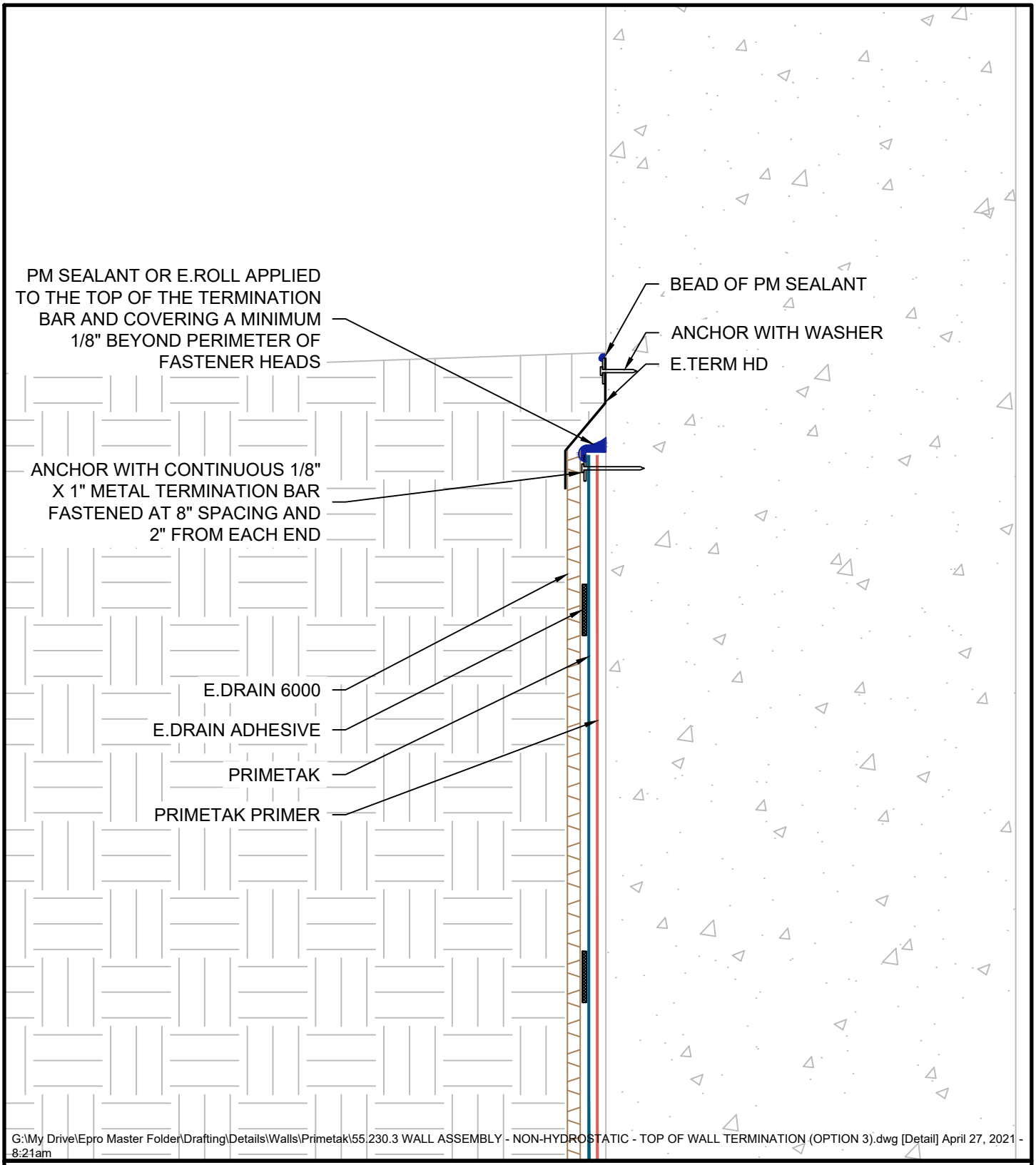
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.230.4 WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 4).dwg [Detail] April 27, 2021 - 8:21am

WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 4)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.230.4
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



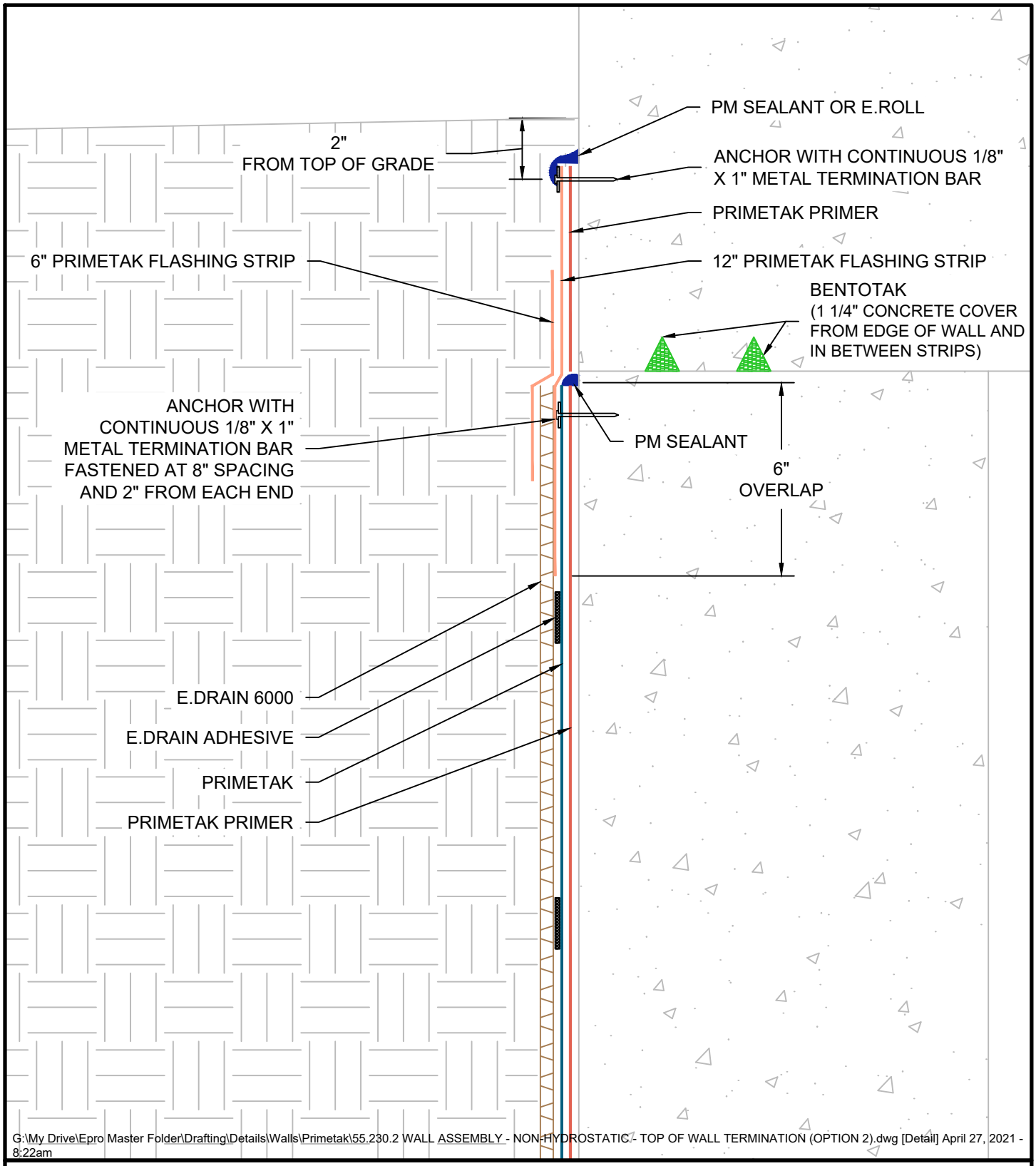
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.230.3 WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 3).dwg [Detail] April 27, 2021 - 8:21am

WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 3)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.230.3
DRAFTER	DATE
RJT	3/16/2021

PRIMETAK

NTS



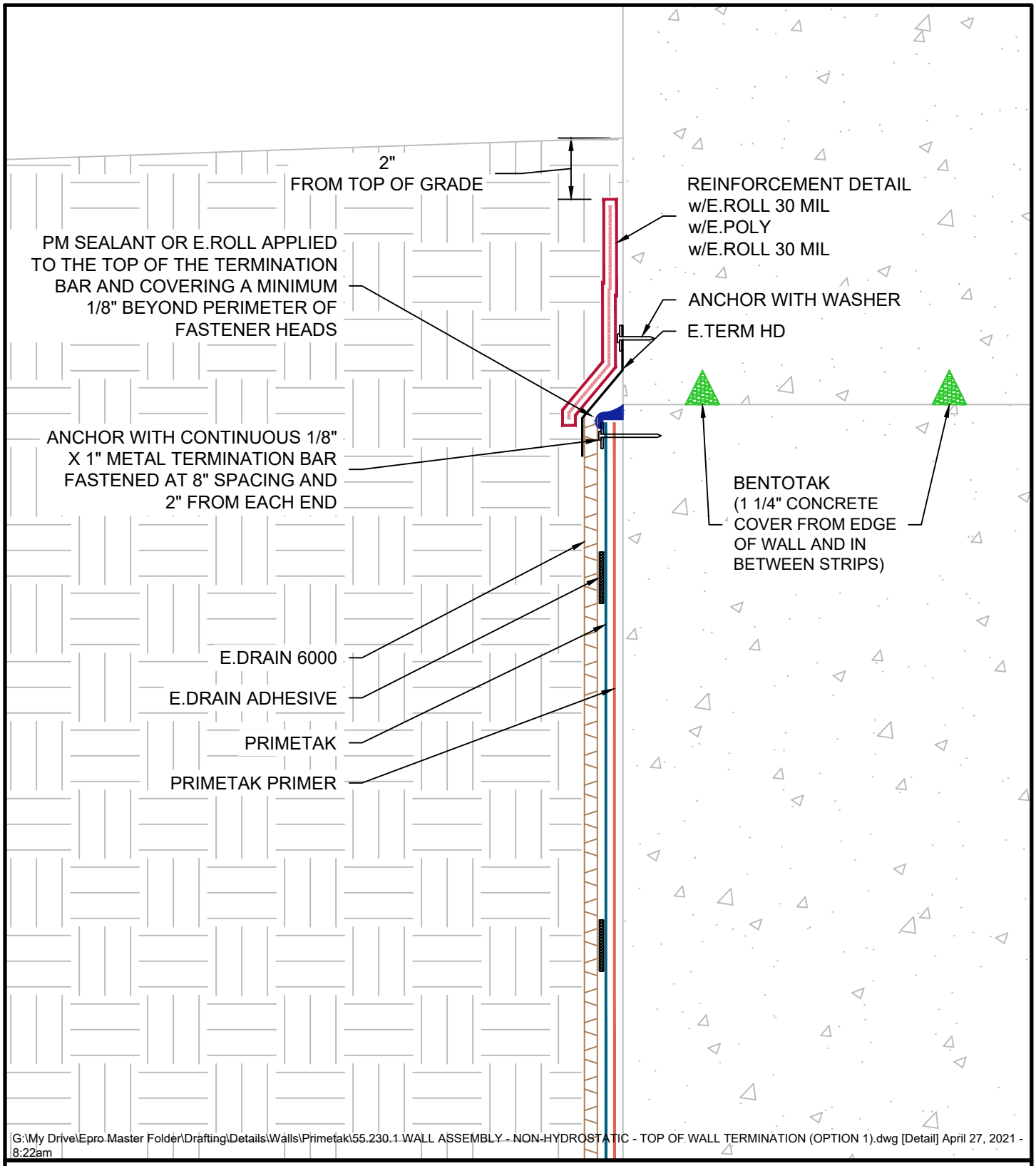
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.230.2 WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 2).dwg [Detail] April 27, 2021 - 8:22am

WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 2)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.230.2
DRAFTER	DATE
RJT	4/26/2021

PRIMETAK

NTS



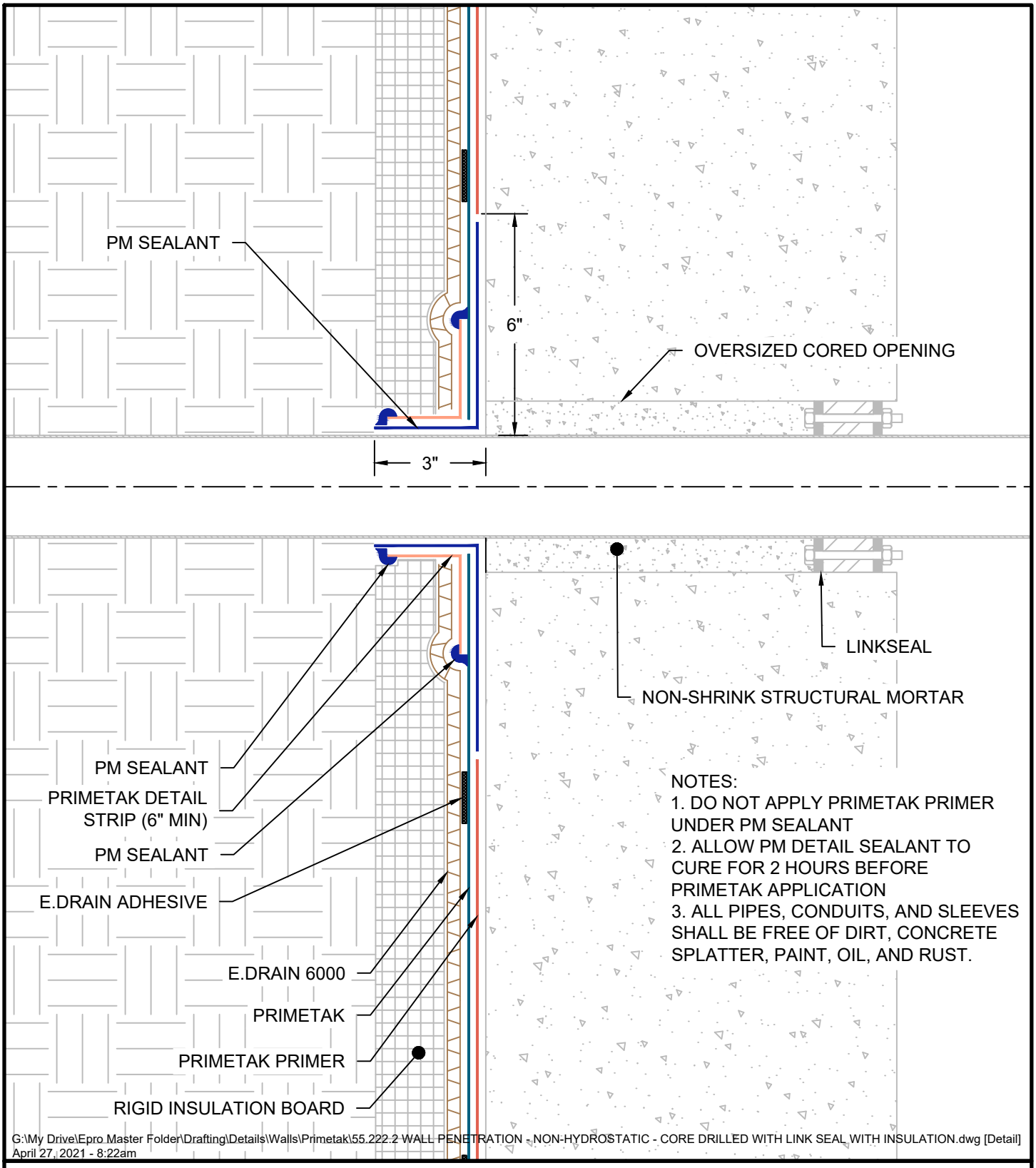
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.230.1 WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 1).dwg [Detail] April 27, 2021 - 8:22am

WALL ASSEMBLY - NON-HYDROSTATIC - TOP OF WALL TERMINATION (OPTION 1)

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.230.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTES:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT
2. ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION
3. ALL PIPES, CONDUITS, AND SLEEVES SHALL BE FREE OF DIRT, CONCRETE SPLATTER, PAINT, OIL, AND RUST.

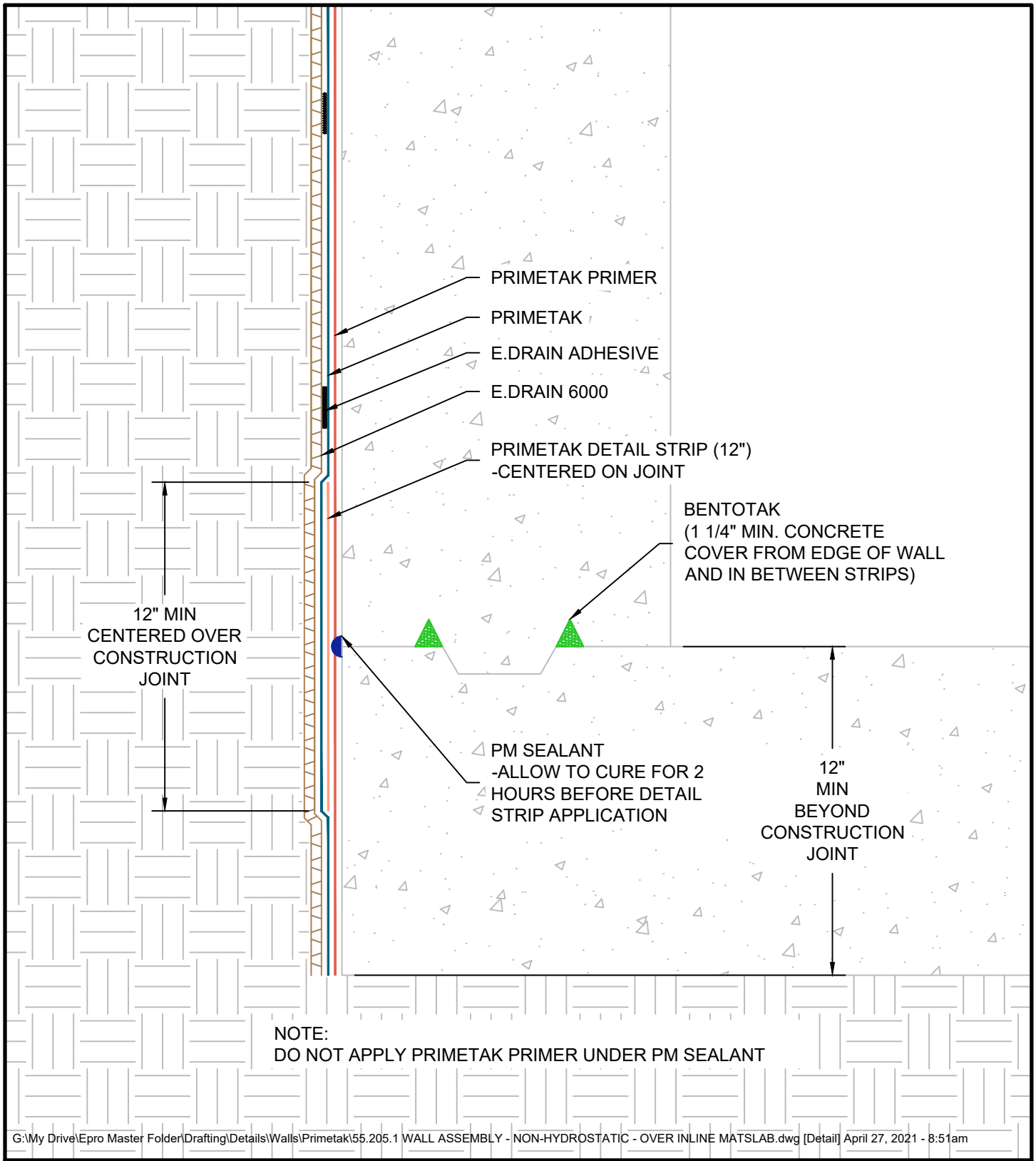
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.222.2 WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED WITH LINK SEAL WITH INSULATION.dwg [Detail]
April 27, 2021 - 8:22am

WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED WITH LINK SEAL WITH INSULATION

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.222.2
DRAFTER	DATE
RJT	4/05/2021

PRIMETAK

NTS



NOTE:
DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

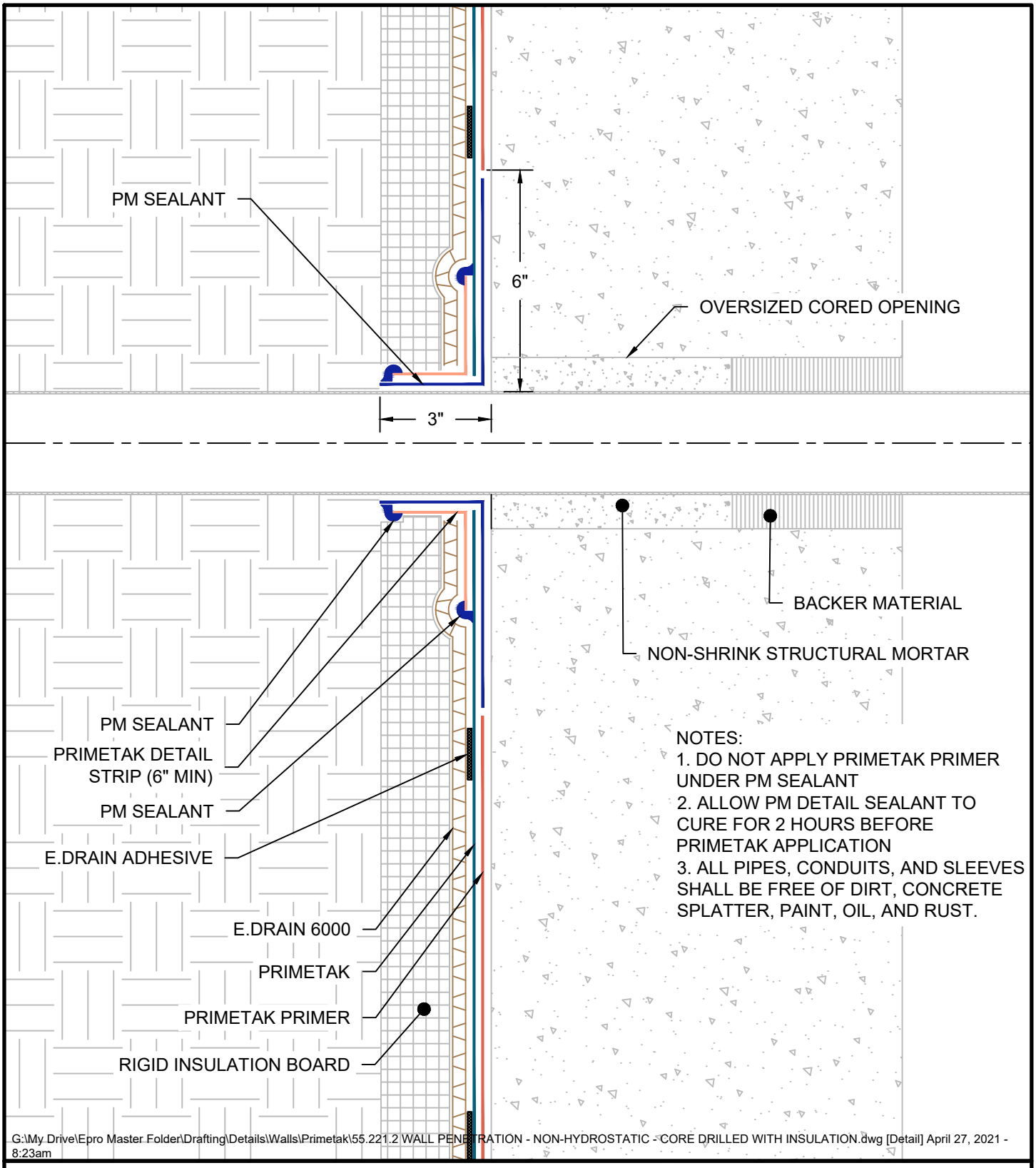
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.205.1 WALL ASSEMBLY - NON-HYDROSTATIC - OVER INLINE MATSLAB.dwg [Detail] April 27, 2021 - 8:51am

WALL ASSEMBLY - NON-HYDROSTATIC - OVER INLINE MATSLAB

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.205.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTES:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT
2. ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION
3. ALL PIPES, CONDUITS, AND SLEEVES SHALL BE FREE OF DIRT, CONCRETE SPLATTER, PAINT, OIL, AND RUST.

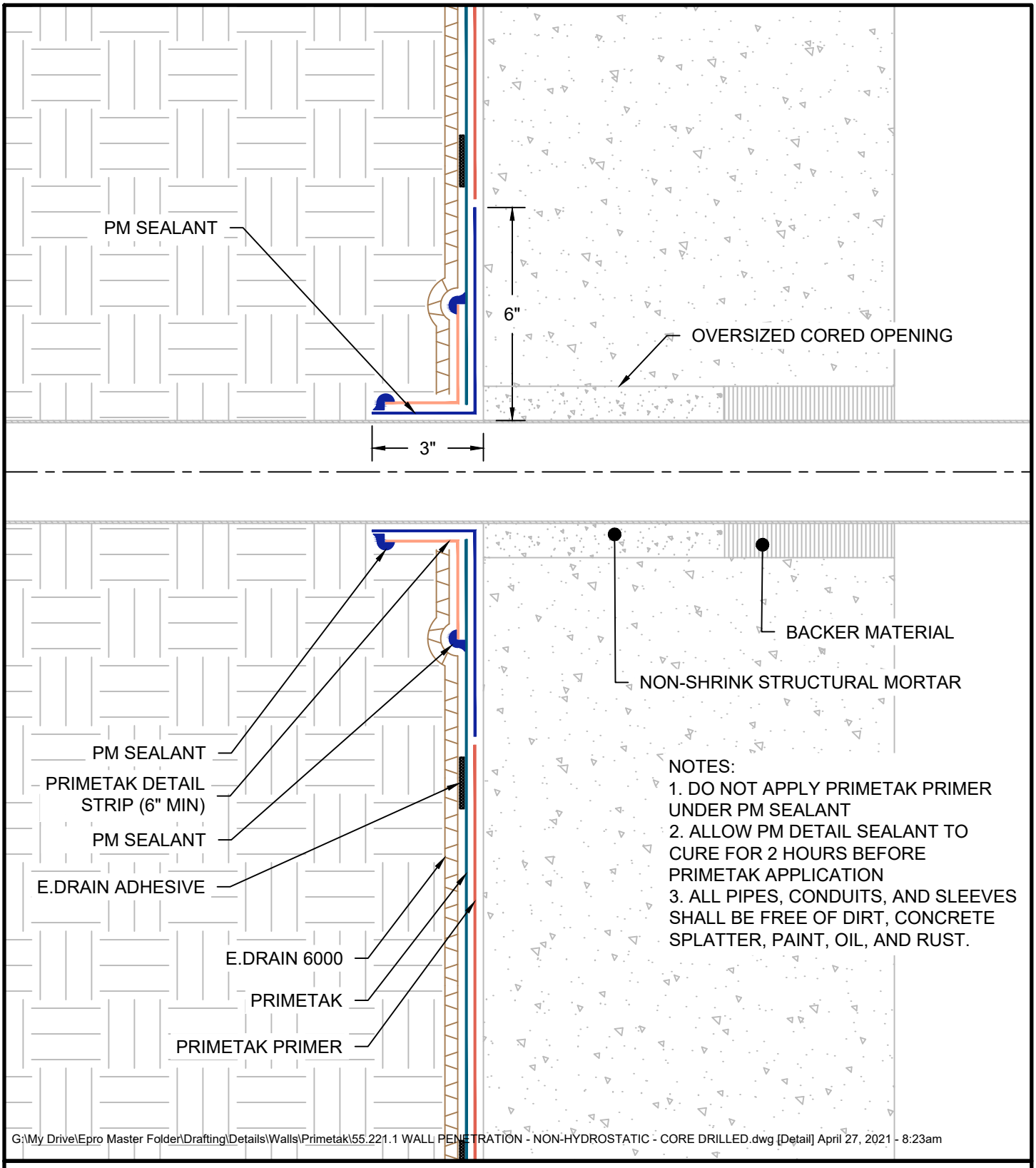
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.221.2 WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED WITH INSULATION.dwg [Detail] April 27, 2021 - 8:23am

WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED WITH INSULATION

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.221.2
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



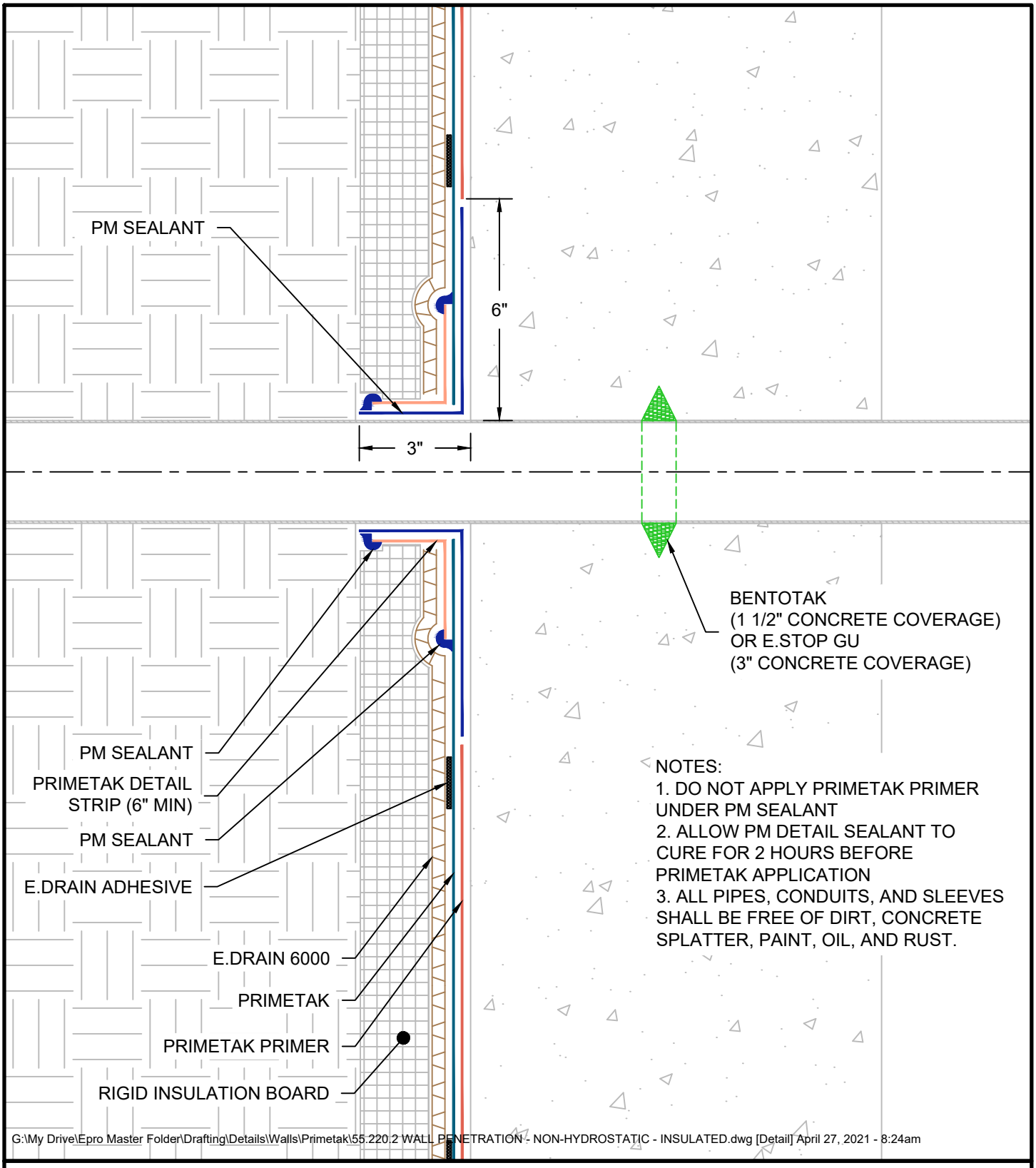
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.221.1 WALL PENETRATION - NON-HYDROSTATIC - CORE DRILLED.dwg [Detail] April 27, 2021 - 8:23am

WALL PENETRATION - NON-HYDROSTATIC - CORE DRILED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.221.1
DRAFTER	DATE
RJT	3/16/2021

PRIMETAK

NTS



NOTES:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT
2. ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION
3. ALL PIPES, CONDUITS, AND SLEEVES SHALL BE FREE OF DIRT, CONCRETE SPLATTER, PAINT, OIL, AND RUST.

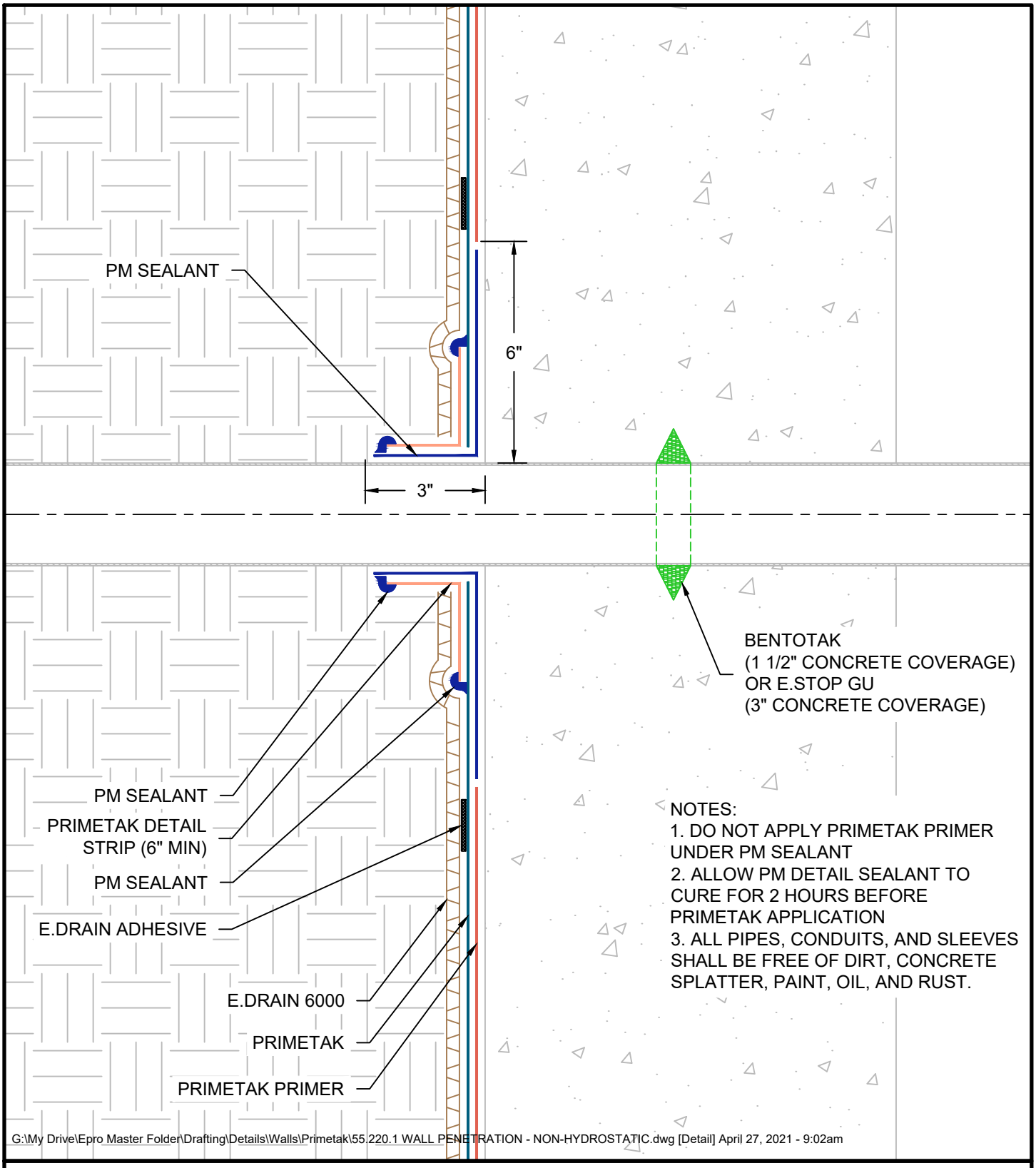
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.220.2 WALL PENETRATION - NON-HYDROSTATIC - INSULATED.dwg [Detail] April 27, 2021 - 8:24am

WALL PENETRATION - NON-HYDROSTATIC - INSULATED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.220.2
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTES:
1. DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT
2. ALLOW PM DETAIL SEALANT TO CURE FOR 2 HOURS BEFORE PRIMETAK APPLICATION
3. ALL PIPES, CONDUITS, AND SLEEVES SHALL BE FREE OF DIRT, CONCRETE SPLATTER, PAINT, OIL, AND RUST.

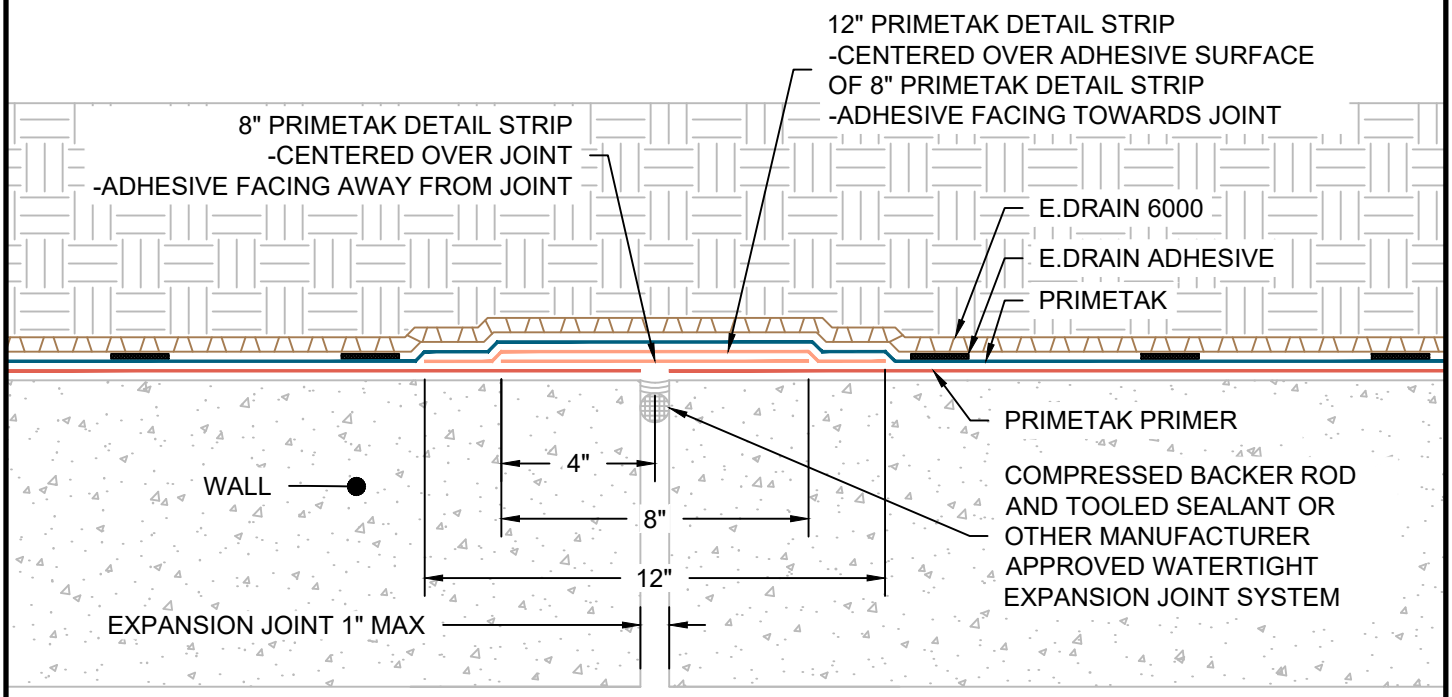
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.220.1 WALL PENETRATION - NON-HYDROSTATIC.dwg [Detail] April 27, 2021 - 9:02am

WALL PENETRATION - NON-HYDROSTATIC

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.220.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTES:
1. DETAIL IS DESIGNED TO ACCOMMODATE 50% (MAX.) TOTAL MOVEMENT.
2. BACKER ROD AND TOOLED SEALANT OR OTHER MANUFACTURER APPROVED WATERTIGHT EXPANSION JOINT SYSTEM ARE REQUIRED TO BE INSTALLED PRIOR TO PRIMETAK INSTALLATION.

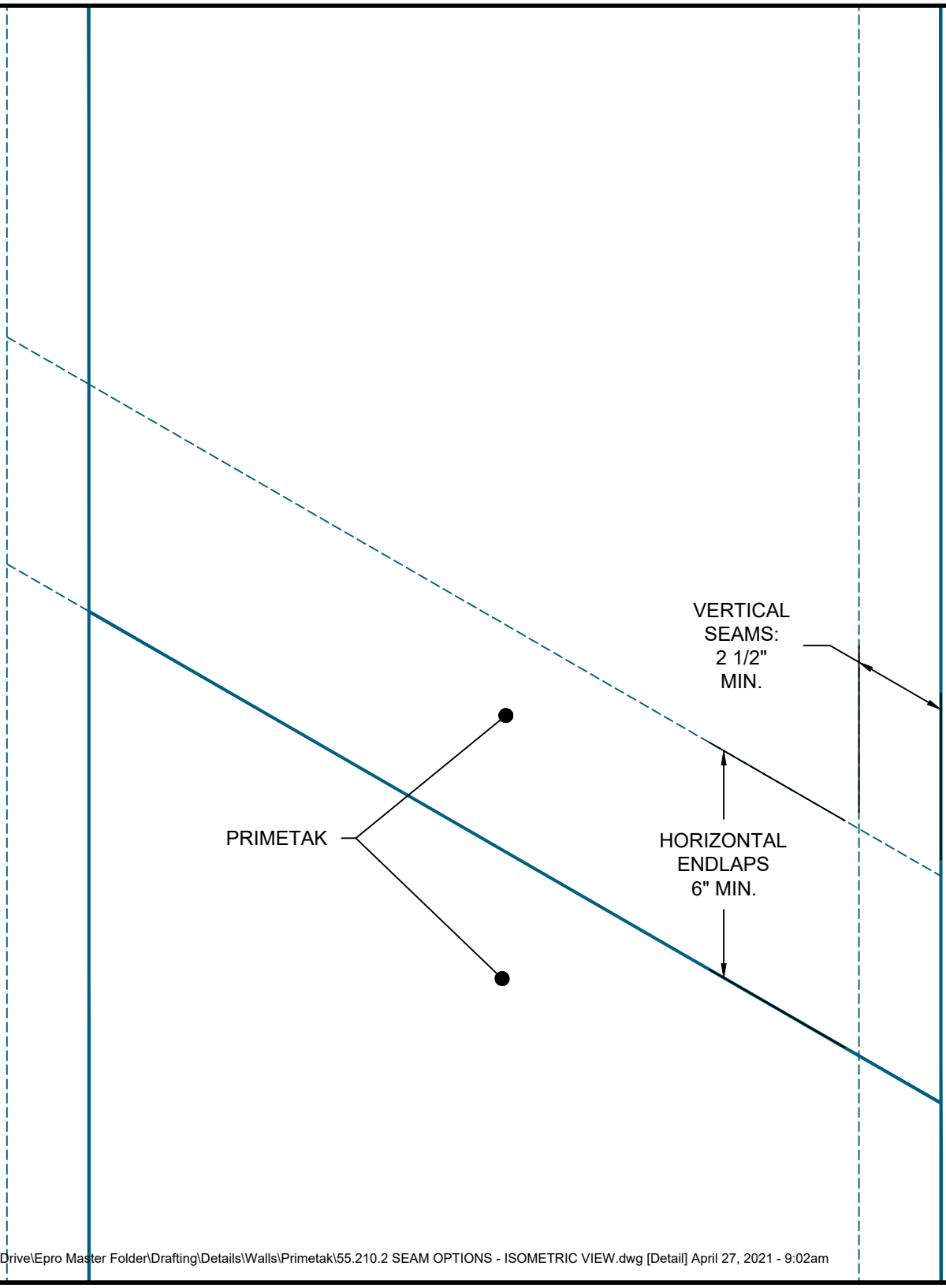
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.211.1 WALL CRACK AND JOINT TREATMENT - PLAN VIEW - EXPANSION JOINT.dwg [Detail] April 27, 2021 - 8:08am

WALL CRACK AND JOINT TREATMENT - NON-HYDROSTATIC - PLAN VIEW - EXPANSION JOINT

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.211.1
DRAFTER	DATE
RJT	4/26/2021

PRIMETAK

NTS



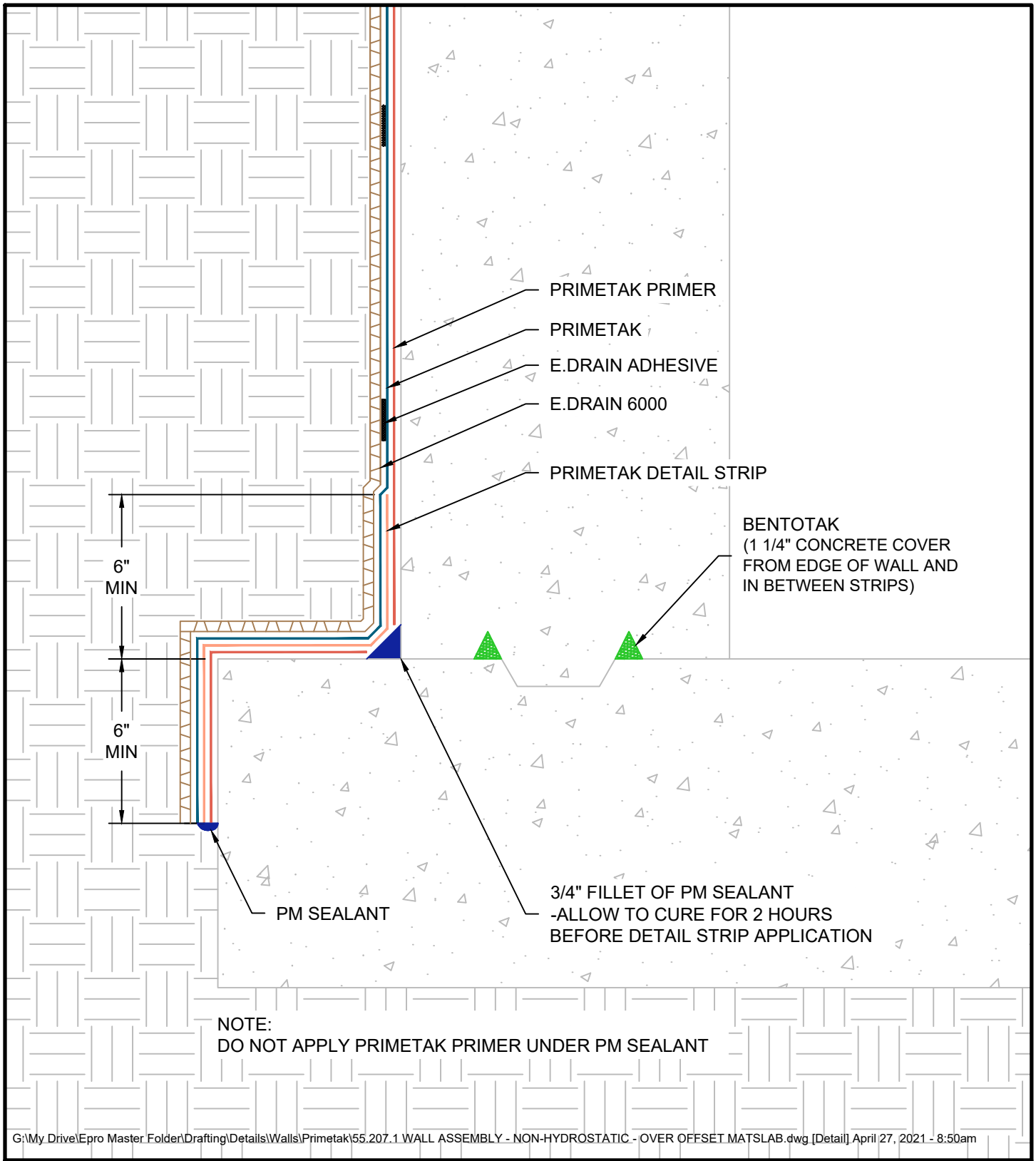
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.210.2 SEAM OPTIONS - ISOMETRIC VIEW.dwg [Detail] April 27, 2021 - 9:02am

SEAM OPTIONS - ISOMETRIC VIEW

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.210.2
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTE:
DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

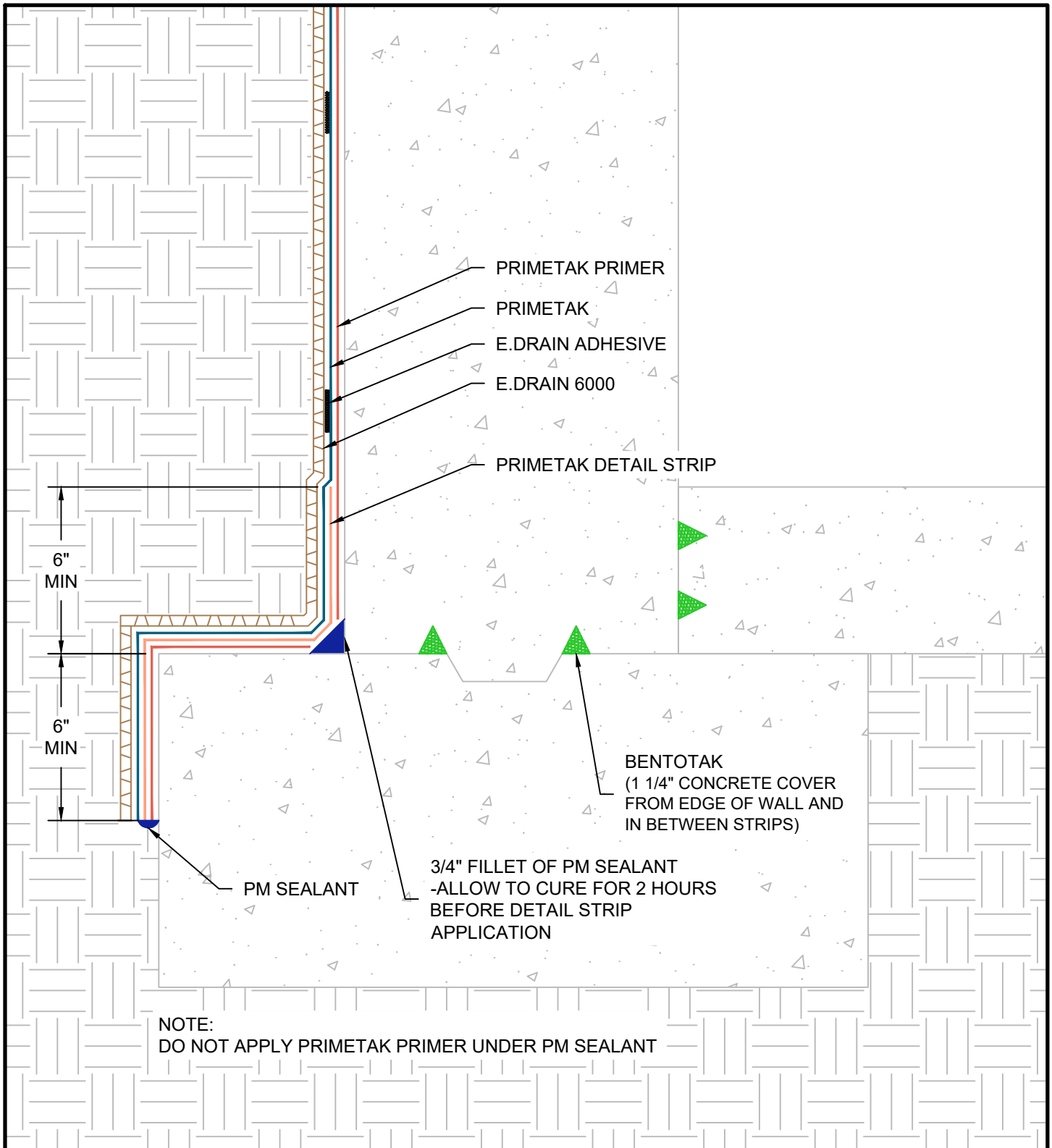
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.207.1 WALL ASSEMBLY - NON-HYDROSTATIC - OVER OFFSET MATSLAB.dwg [Detail] April 27, 2021 - 8:50am

WALL ASSEMBLY - NON-HYDROSTATIC - OVER OFFSET MATSLAB

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.207.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



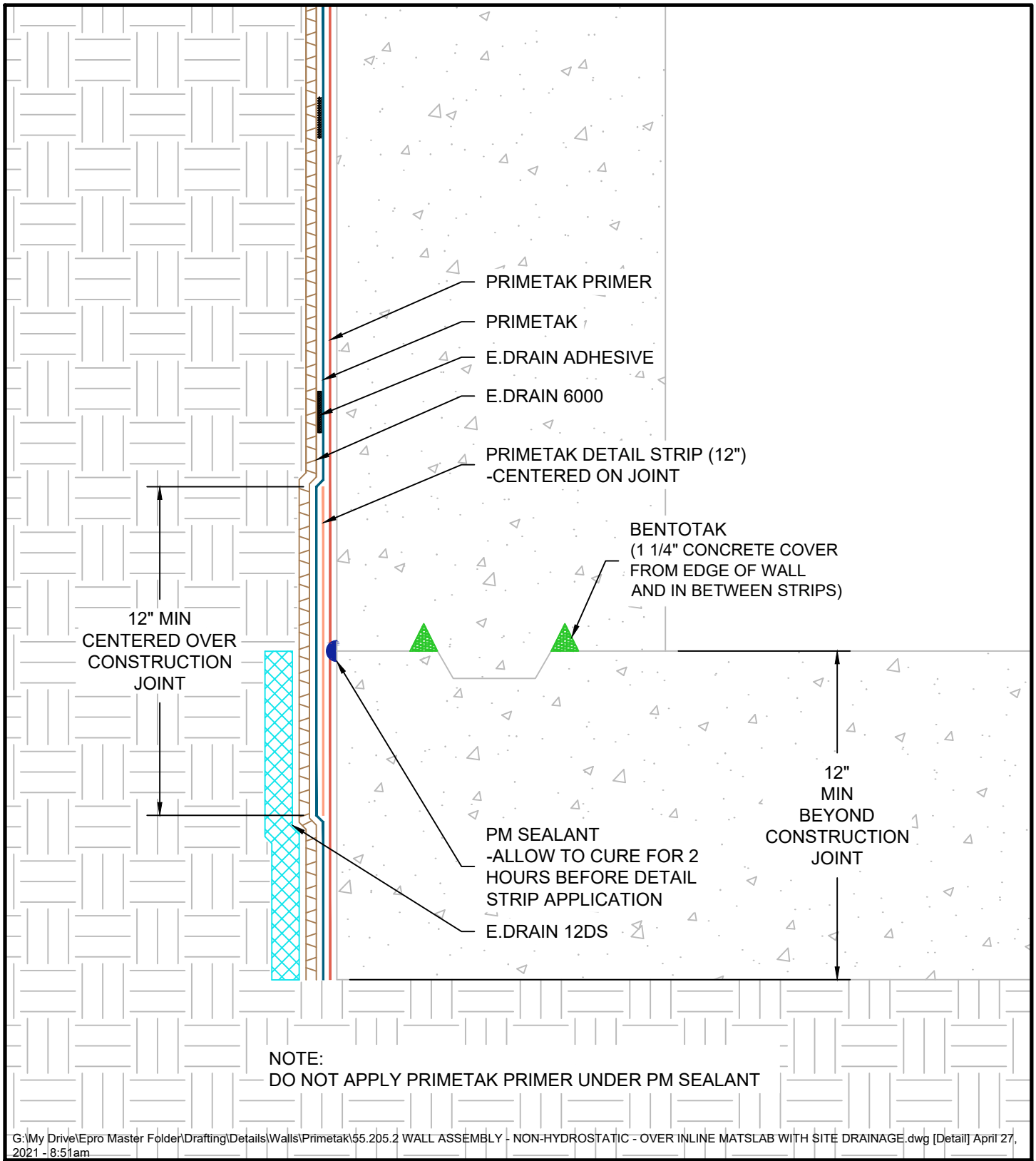
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.201.1 WALL ASSEMBLY - NON-HYDROSTATIC - INTERIOR FLOOR SLAB 12 OR LESS ABOVE TOP OF FOOTING.dwg [Detail] April 27, 2021 - 8:52am

WALL ASSEMBLY - NON-HYDROSTATIC - INTERIOR FLOOR SLAB 12" OR LESS ABOVE TOP OF FOOTING

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.201.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTE:
DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

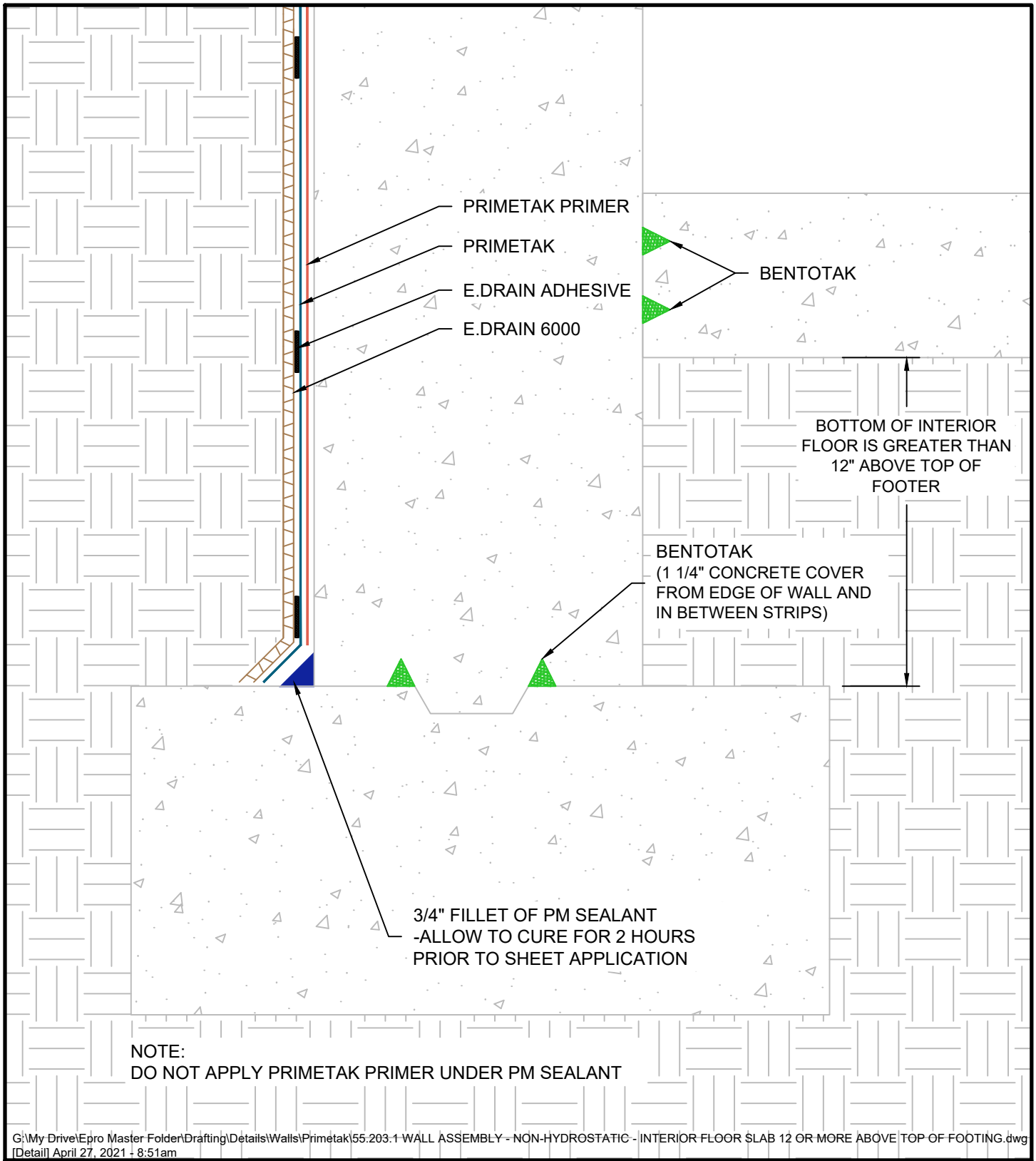
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.205.2 WALL ASSEMBLY - NON-HYDROSTATIC - OVER INLINE MATSLAB WITH SITE DRAINAGE.dwg [Detail] April 27, 2021 - 8:51am

WALL ASSEMBLY - NON-HYDROSTATIC - OVER INLINE MATSLAB WITH SITE DRAINAGE

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.205.2
DRAFTER	DATE
RJT	3/23/2021

PRIMETAK

NTS



NOTE:
DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

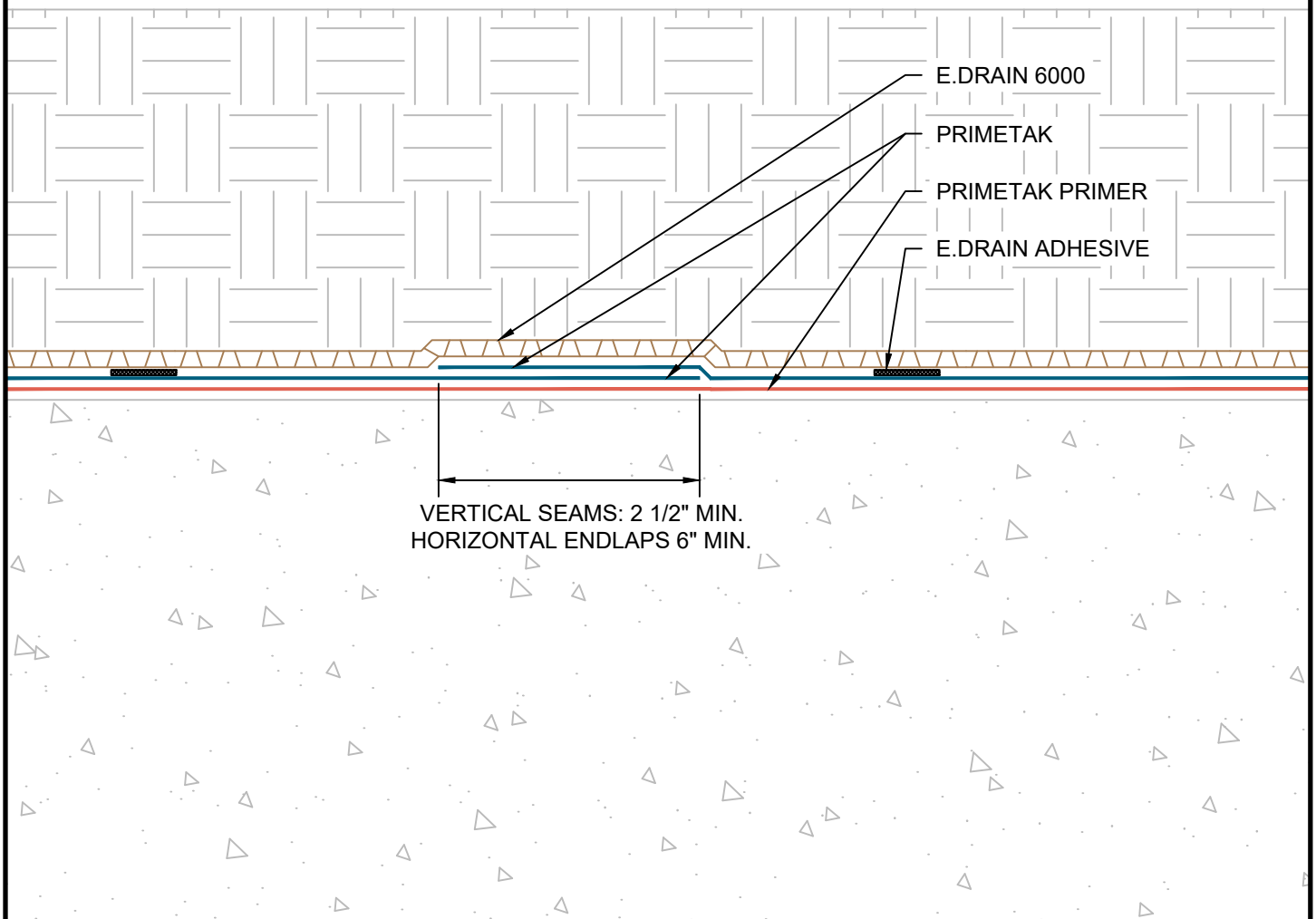
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.203.1 WALL ASSEMBLY - NON-HYDROSTATIC - INTERIOR FLOOR SLAB 12 OR MORE ABOVE TOP OF FOOTING.dwg
[Detail] April 27, 2021 - 8:51am

WALL ASSEMBLY - NON-HYDROSTATIC - INTERIOR FLOOR SLAB 12" OR MORE ABOVE TOP OF FOOTING

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.203.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



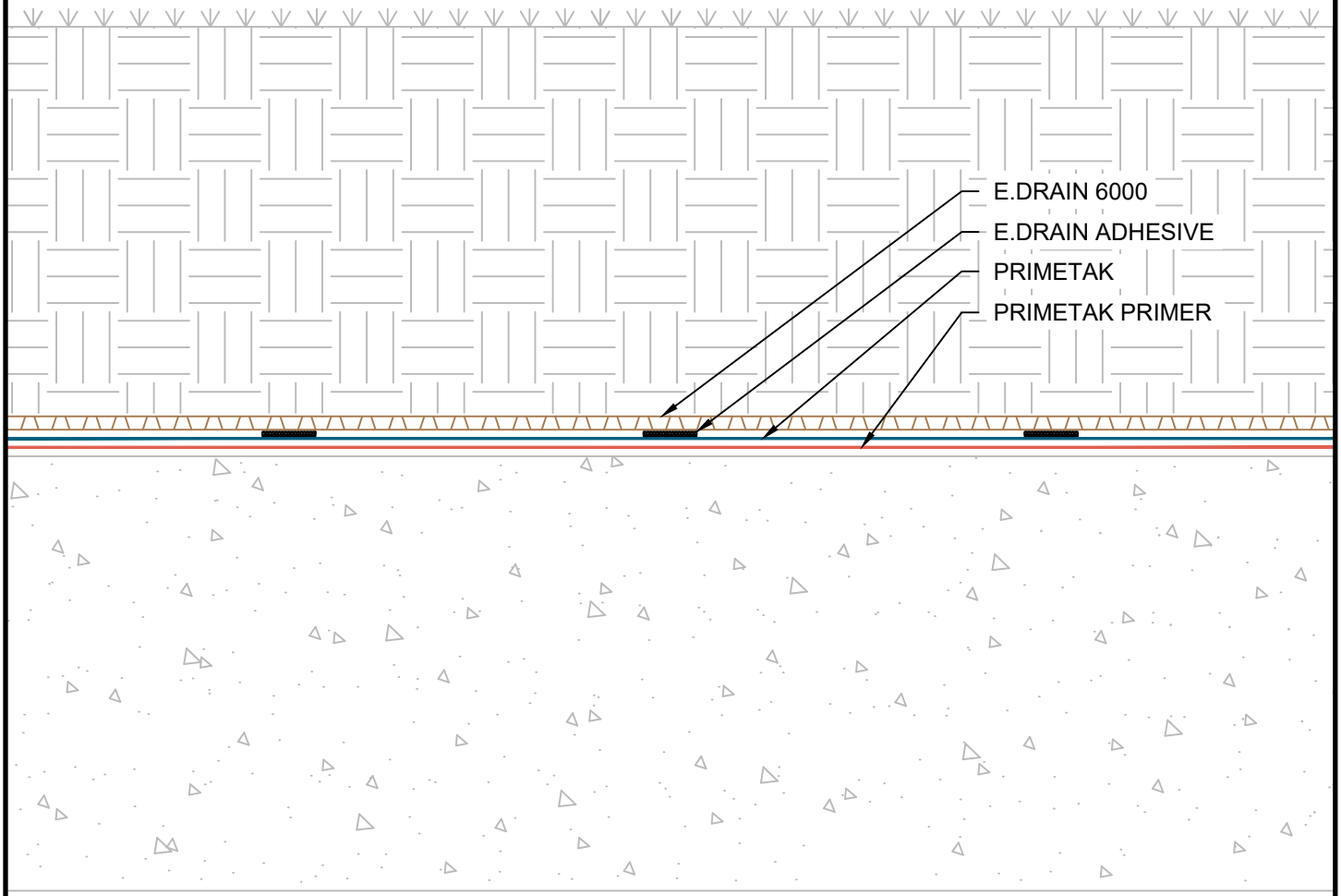
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.210.1 SEAM OPTIONS - PLAN VIEW.dwg [Detail] April 27, 2021 - 8:26am

SEAM OPTIONS - PLAN VIEW

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.210.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



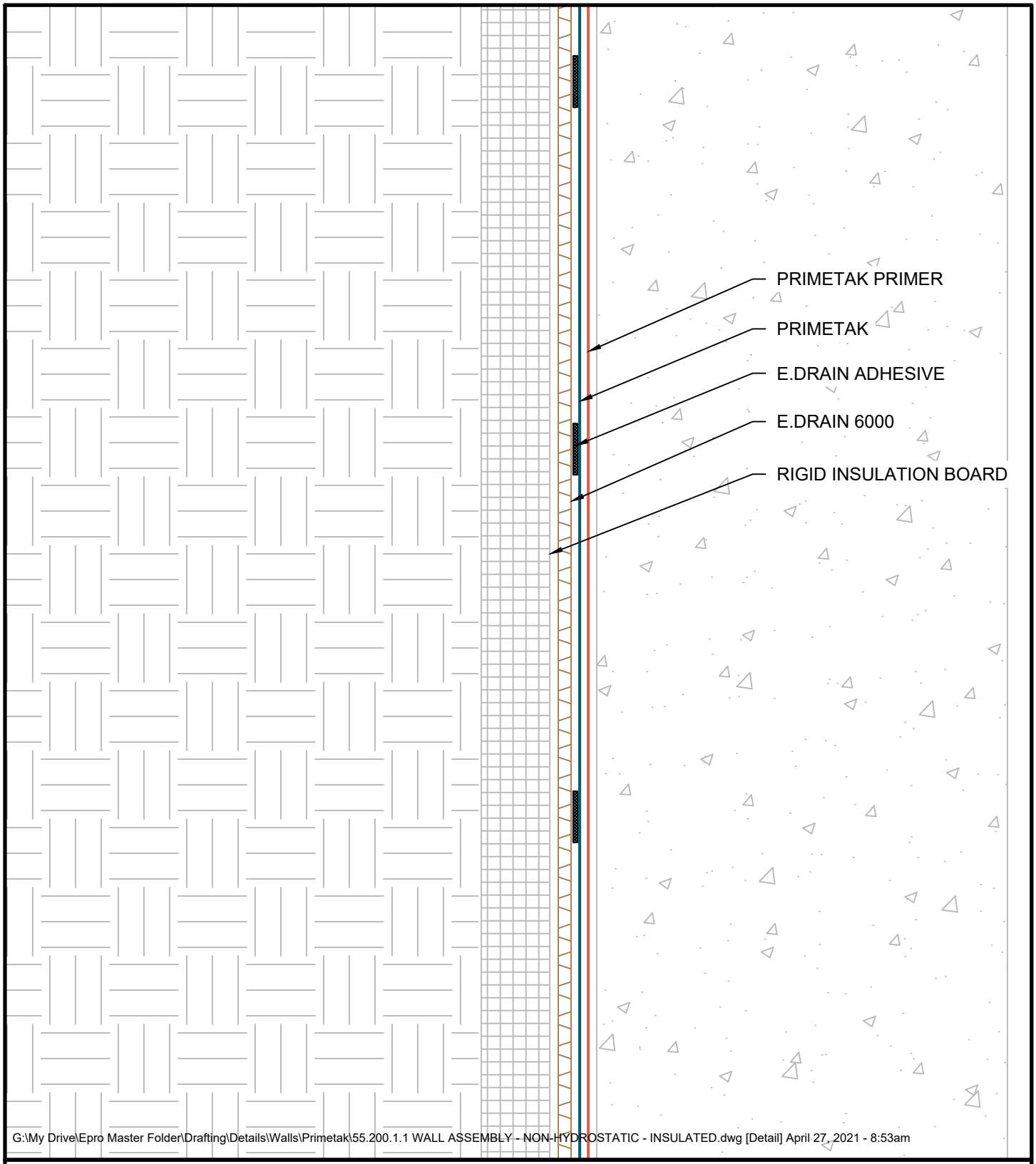
G:\My Drive\Epro Master Folder\Drafting\Details\Decks\Primetak\55.400.7 COVERED DECK ASSEMBLY - NON-HYDROSTATIC.dwg [Detail] April 27, 2021 - 9:12am

DECK ASSEMBLY - NON-HYDROSTATIC - SOIL FILL

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.400.7
DRAFTER	DATE
RJT	3/16/2021

PRIMETAK

NTS



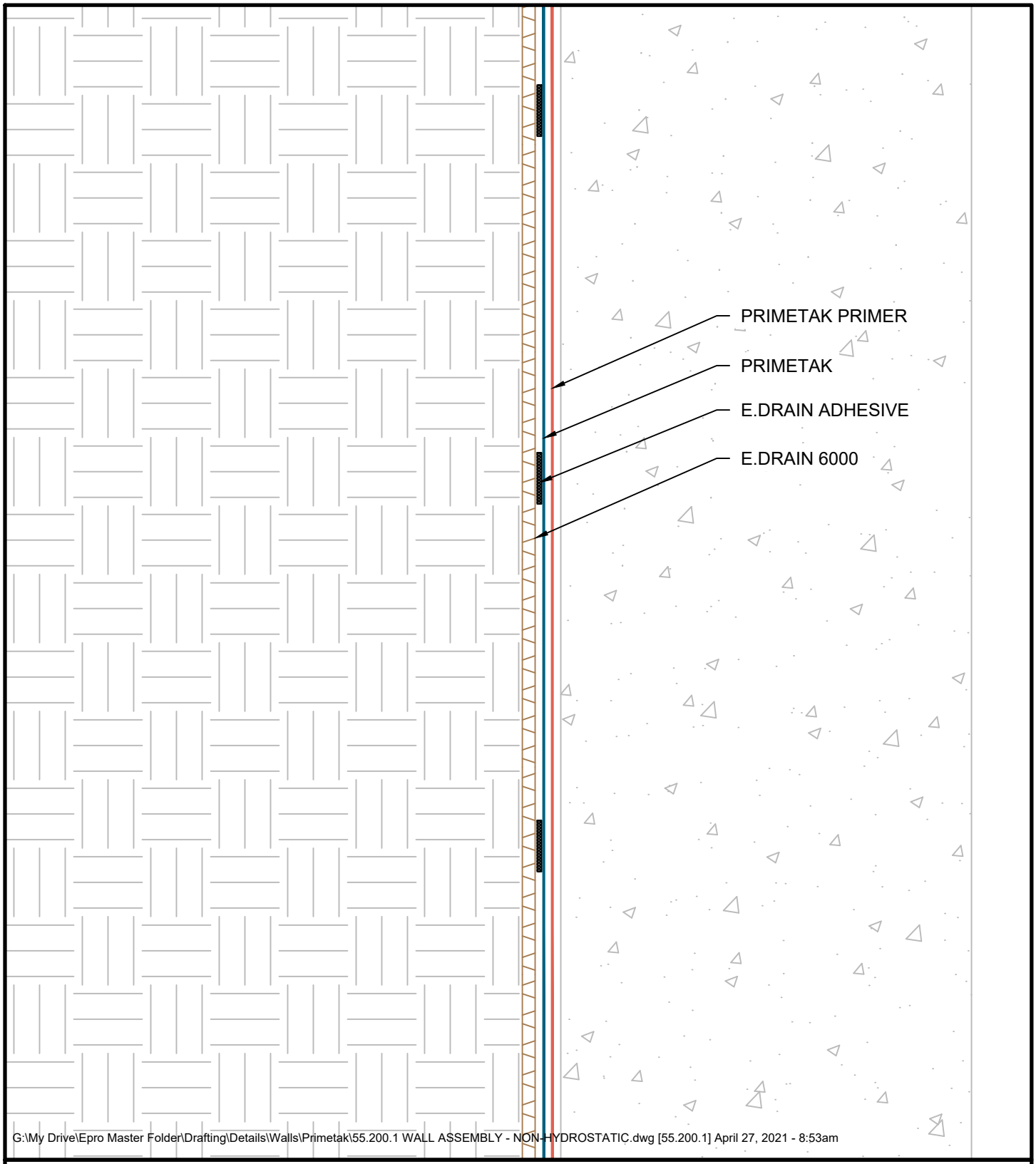
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.200.1.1 WALL ASSEMBLY - NON-HYDROSTATIC - INSULATED.dwg [Detail] April 27, 2021 - 8:53am

WALL ASSEMBLY - NON-HYDROSTATIC - INSULATED

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.200.1.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



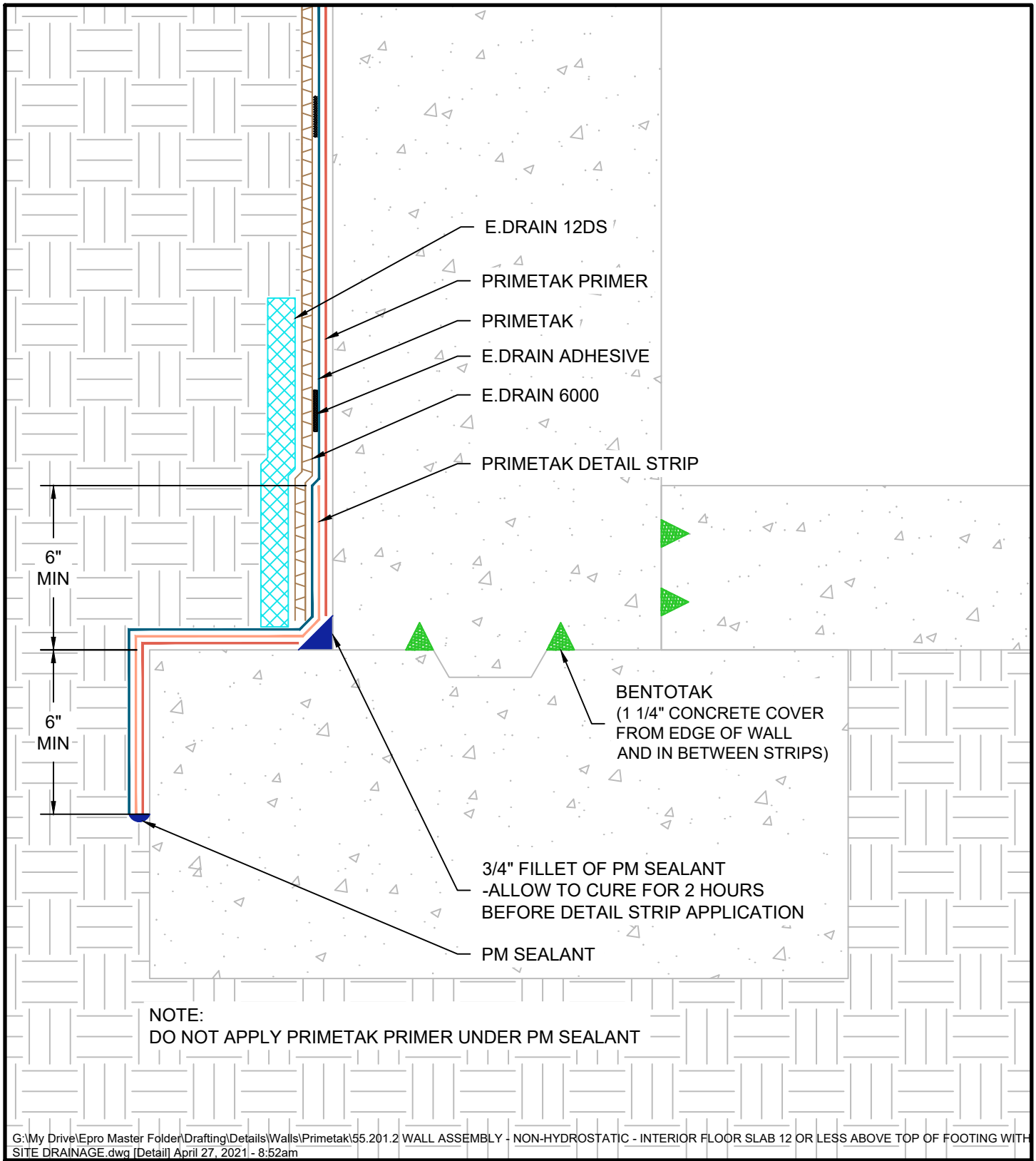
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.200.1 WALL ASSEMBLY - NON-HYDROSTATIC.dwg [55.200.1] April 27, 2021 - 8:53am

WALL ASSEMBLY - NON-HYDROSTATIC

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.200.1
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



NOTE:
DO NOT APPLY PRIMETAK PRIMER UNDER PM SEALANT

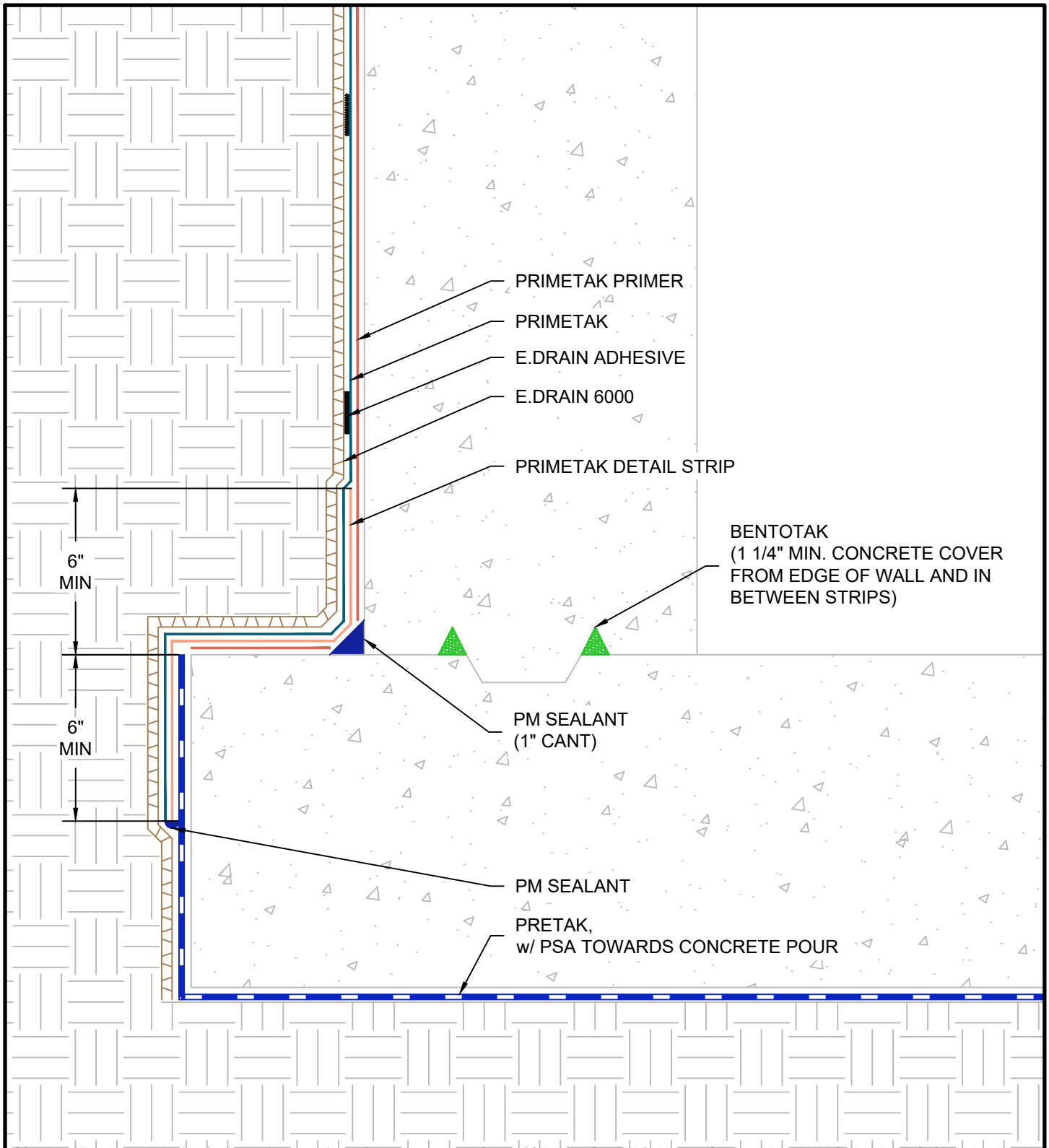
G:\My Drive\Epro Master Folder\Drafting\Details\Walls\Primetak\55.201.2 WALL ASSEMBLY - NON-HYDROSTATIC - INTERIOR FLOOR SLAB 12 OR LESS ABOVE TOP OF FOOTING WITH SITE DRAINAGE.dwg [Detail] April 27, 2021 - 8:52am

WALL ASSEMBLY - NON-HYDROSTATIC - INTERIOR FLOOR SLAB 12" OR LESS ABOVE TOP OF FOOTING WITH SITE DRAINAGE

SYSTEM NAME	DRAWING NUMBER
PRIMETAK	55.201.2
DRAFTER	DATE
RJT	2/23/2021

PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Underslab\Pretak\51.144.1.55 UNDERSLAB ASSEMBLY - OFFSET SLAB TRANSITION - PRIMETAK POST-APPLIED SYSTEM.dwg [Detail]
April 12, 2021 - 1:04pm

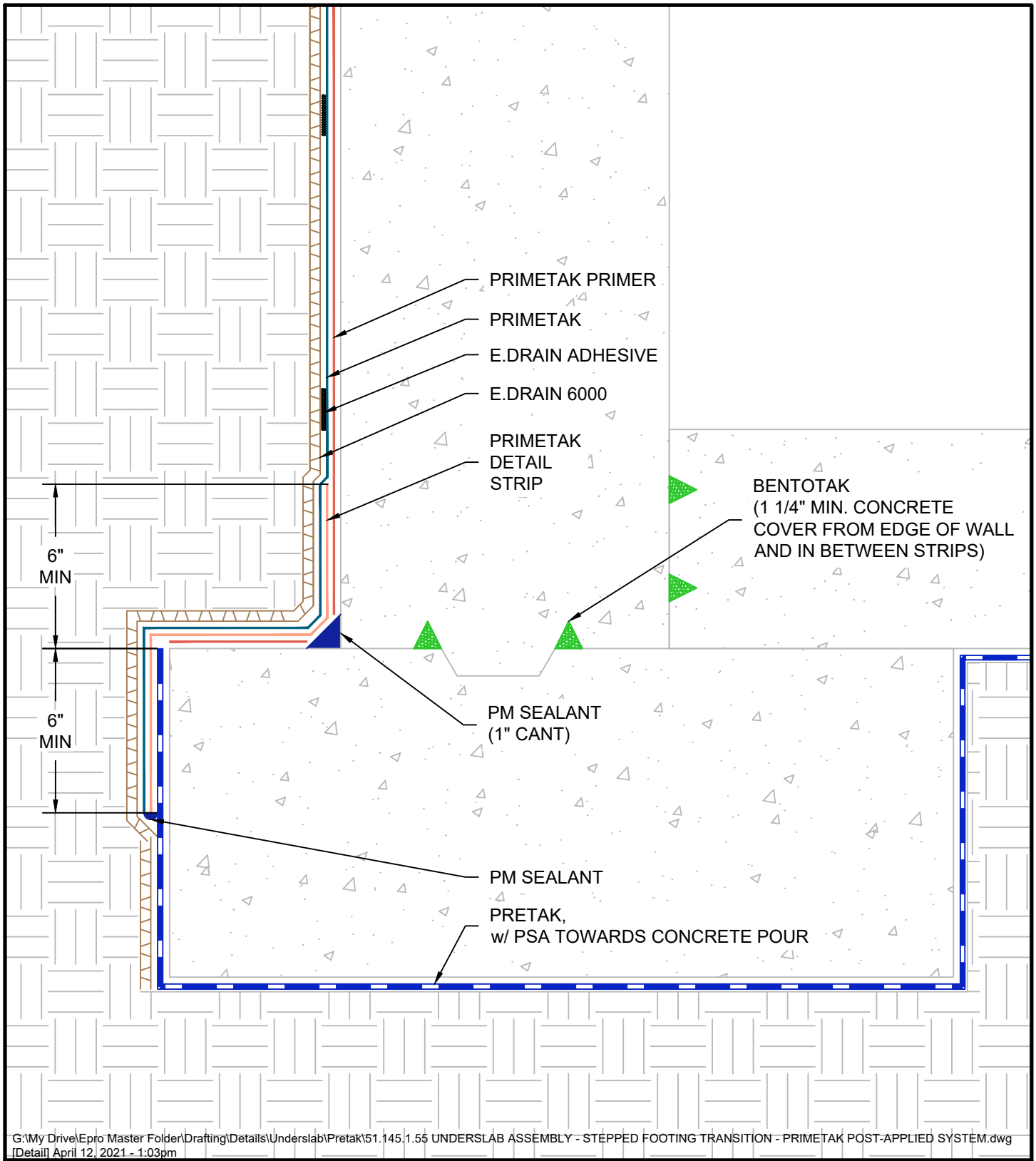
UNDERSLAB ASSEMBLY - OFFSET SLAB TRANSITION - PRIMETAK POST-APPLIED SYSTEM

epro

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.144.1.55
DRAFTER	DATE
RJT	3/01/2021

PRETAK / PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Underslab\Pretak\51.145.1.55 UNDERSLAB ASSEMBLY - STEPPED FOOTING TRANSITION - PRIMETAK POST-APPLIED SYSTEM.dwg
[Detail] April 12, 2021 - 1:03pm

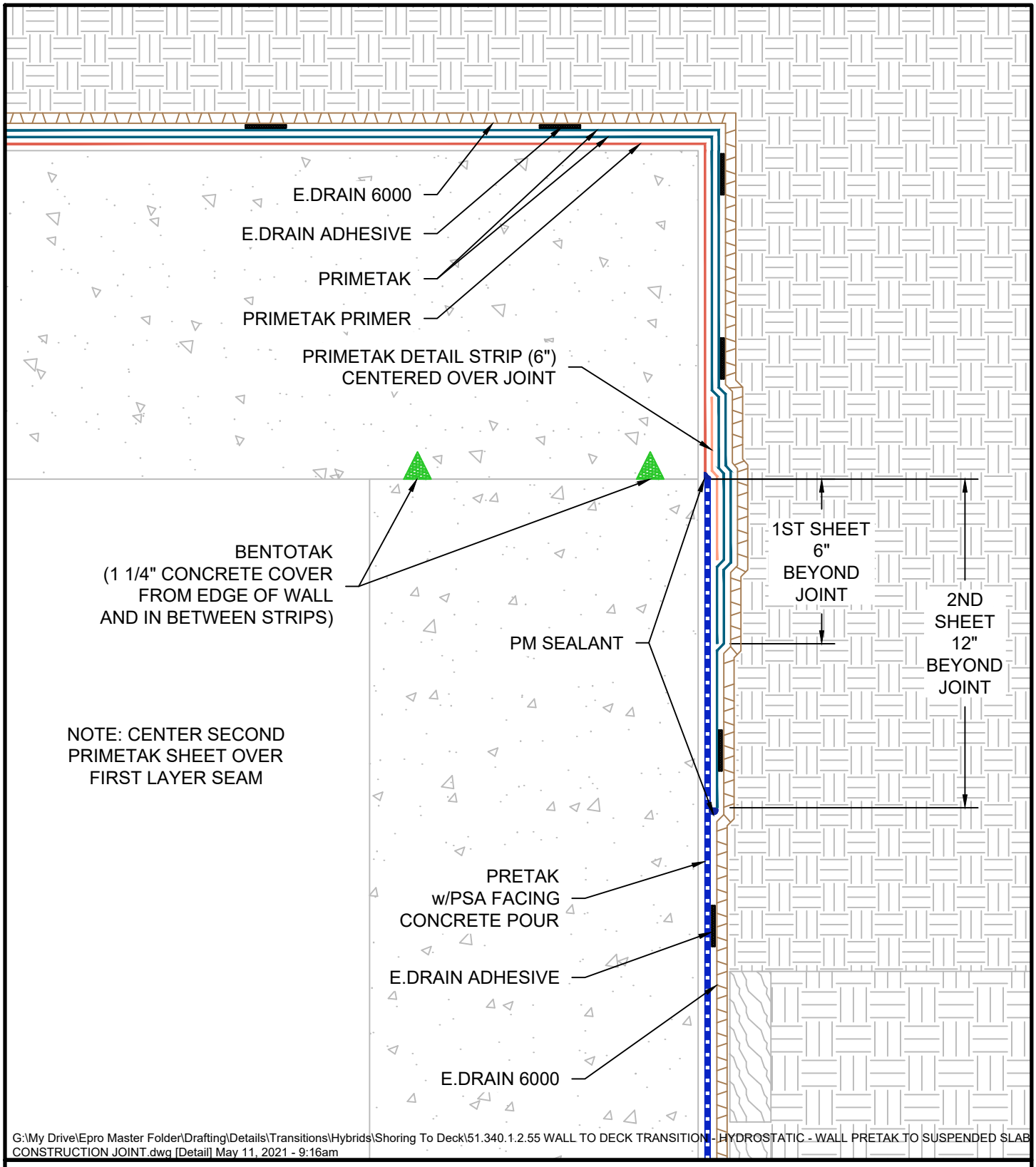
UNDERSLAB ASSEMBLY - STEPPED FOOTING TRANSITION - PRIMETAK POST-APPLIED SYSTEM

epro

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.145.1.55
DRAFTER	DATE
RJT	3/17/2021

PRETAK / PRIMETAK

NTS



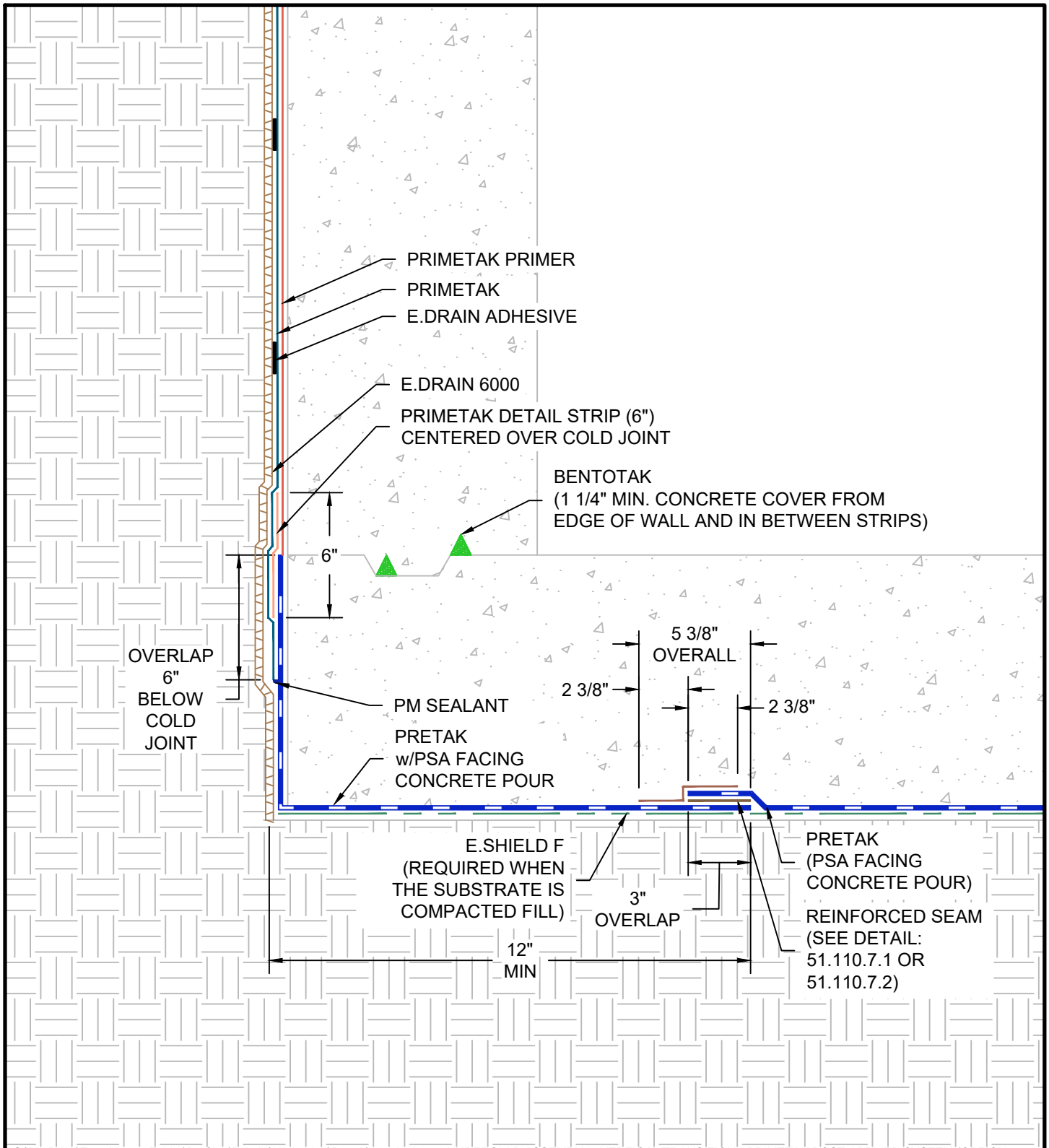
G:\My Drive\Epro Master Folder\Drafting\Details\Transitions\Hybrids\Shoring To Deck\51.340.1.2.55 WALL TO DECK TRANSITION - HYDROSTATIC - WALL PRETAK TO SUSPENDED SLAB CONSTRUCTION JOINT.dwg [Detail] May 11, 2021 - 9:16am

SHORING TO DECK TRANSITION - HYDROSTATIC - PRETAK TO SUSPENDED SLAB CONSTRUCTION JOINT

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.340.1.2.55
DRAFTER	DATE
RJT	5/10/2021

PRETAK / PRIMETAK

NTS



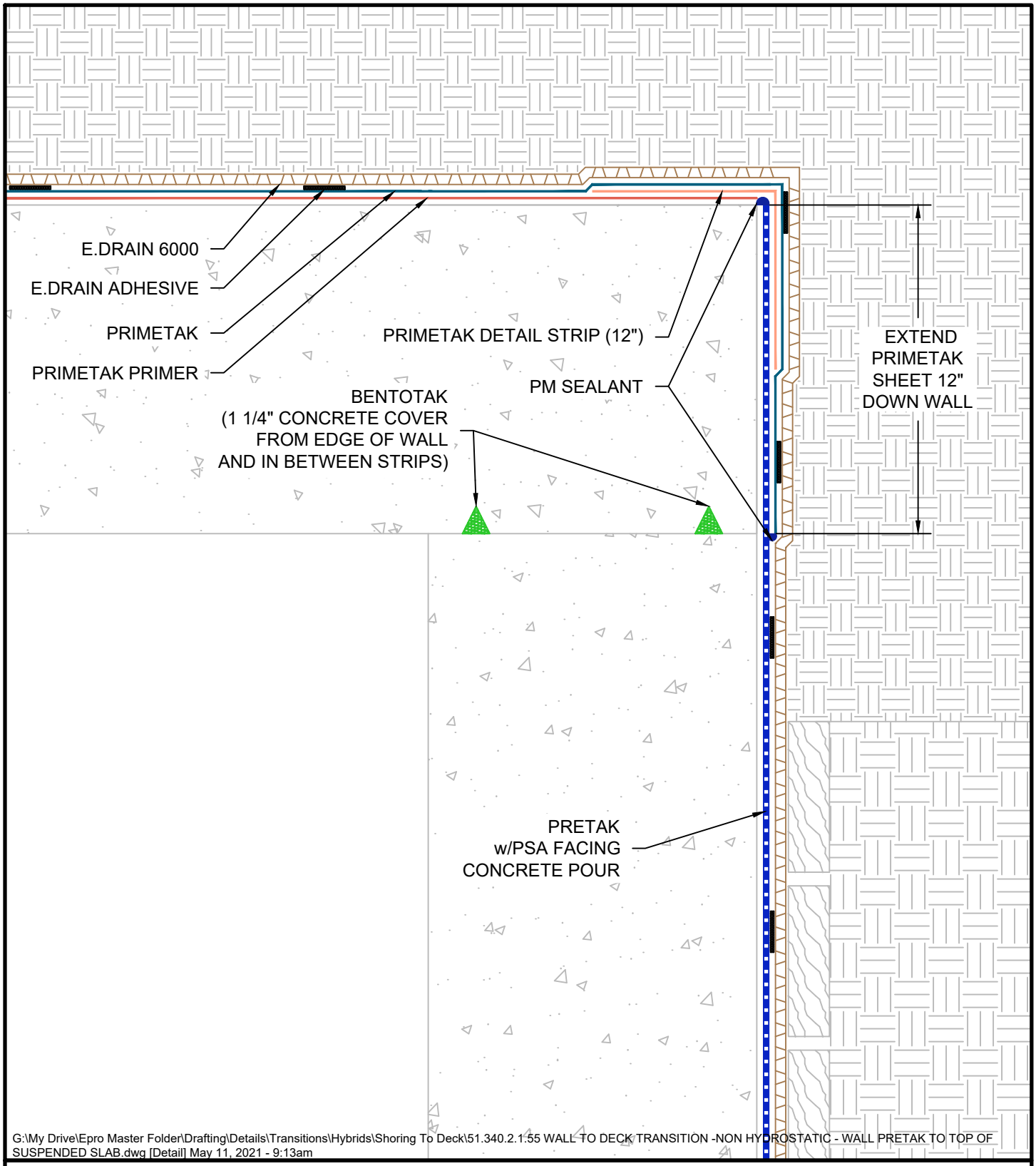
G:\My Drive\Epro Master Folder\Drafting\Details\Underslab\Pretak\51.143.1.3.55 UNDERSLAB ASSEMBLY - VERTICAL TRANSITION - PRIMETAK POST-APPLIED SYSTEM (OPTION 3).dwg [Detail] April 12, 2021 - 1:06pm

UNDERSLAB ASSEMBLY - VERTICAL TRANSITION - PRIMETAK POST-APPLIED SYSTEM (REINFORCED SEAM)

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.143.1.3.55
DRAFTER	DATE
RJT	3/25/2021

PRETAK / PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Transitions\Hybrids\Shoring To Deck\51.340.2.1.55 WALL TO DECK TRANSITION -NON HYDROSTATIC - WALL PRETAK TO TOP OF SUSPENDED SLAB.dwg [Detail] May 11, 2021 - 9:13am

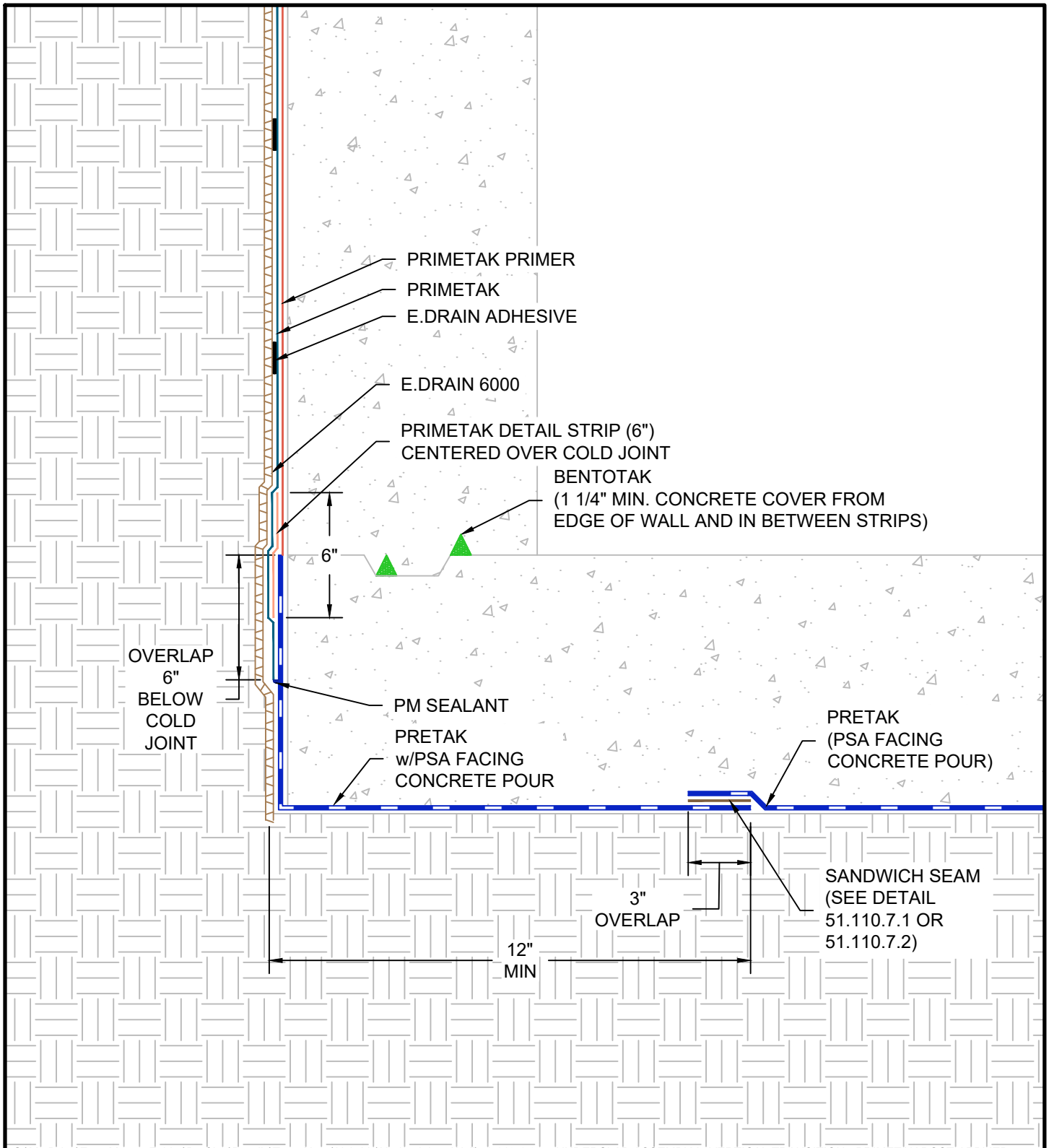
SHORING TO DECK TRANSITION - NON-HYDROSTATIC - PRETAK TO TOP OF SUSPENDED SLAB

epro

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.340.2.1.55
DRAFTER	DATE
RJT	5/07/2021

PRETAK / PRIMETAK

NTS



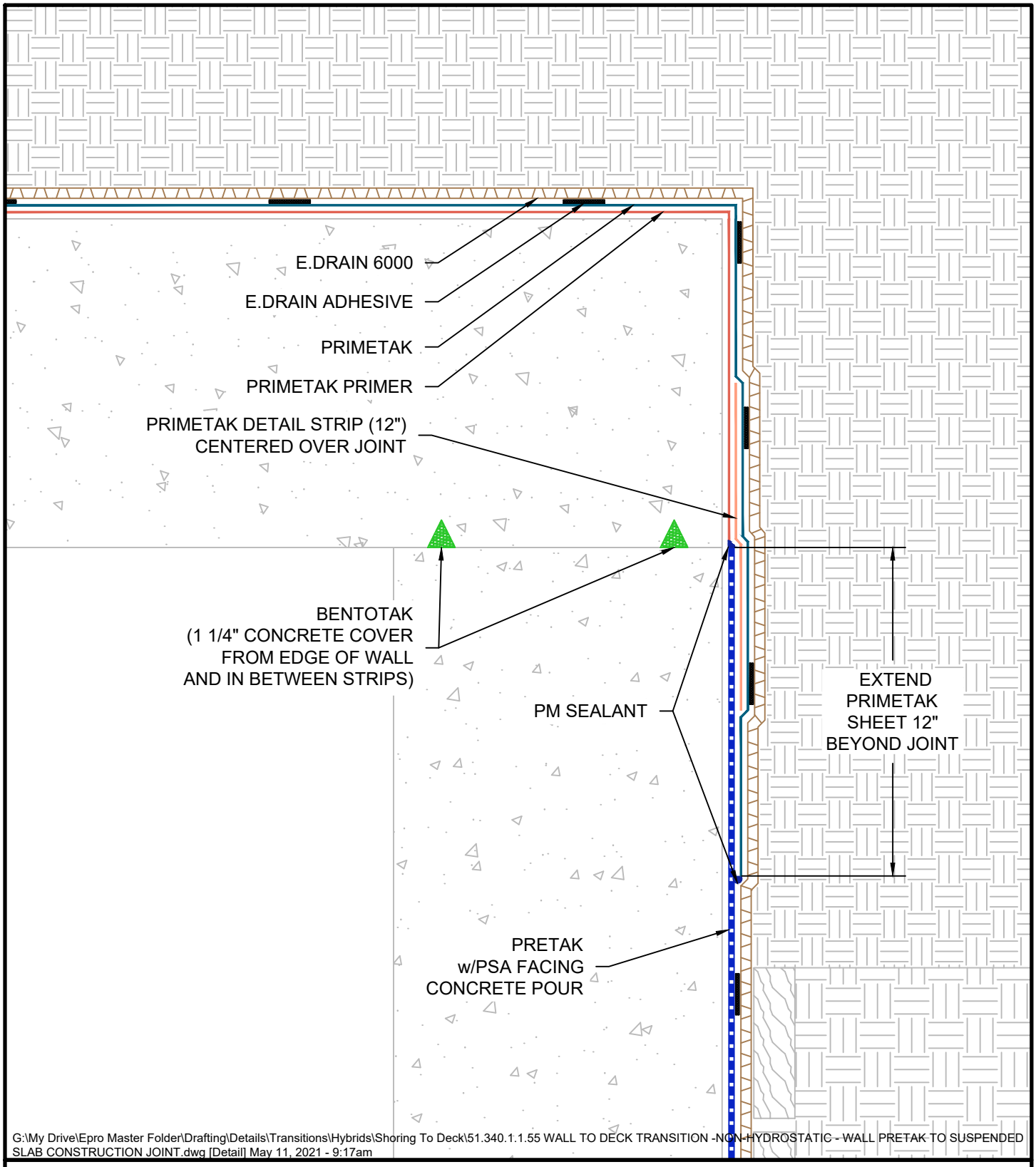
G:\My Drive\Epro Master Folder\Drafting\Details\Transitions\Hybrids\Underslab to Wall\51.143.1.2.55 UNDERSLAB ASSEMBLY - VERTICAL TRANSITION - PRIMETAK POST-APPLIED SYSTEM (OPTION 2).dwg [Detail] July 26, 2022 - 8:53am

UNDERSLAB ASSEMBLY - VERTICAL TRANSITION - PRIMETAK POST-APPLIED SYSTEM (SANDWICH SEAM)

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.143.1.2.55
DRAFTER	DATE
RJT	7/25/2022

PRETAK / PRIMETAK

NTS



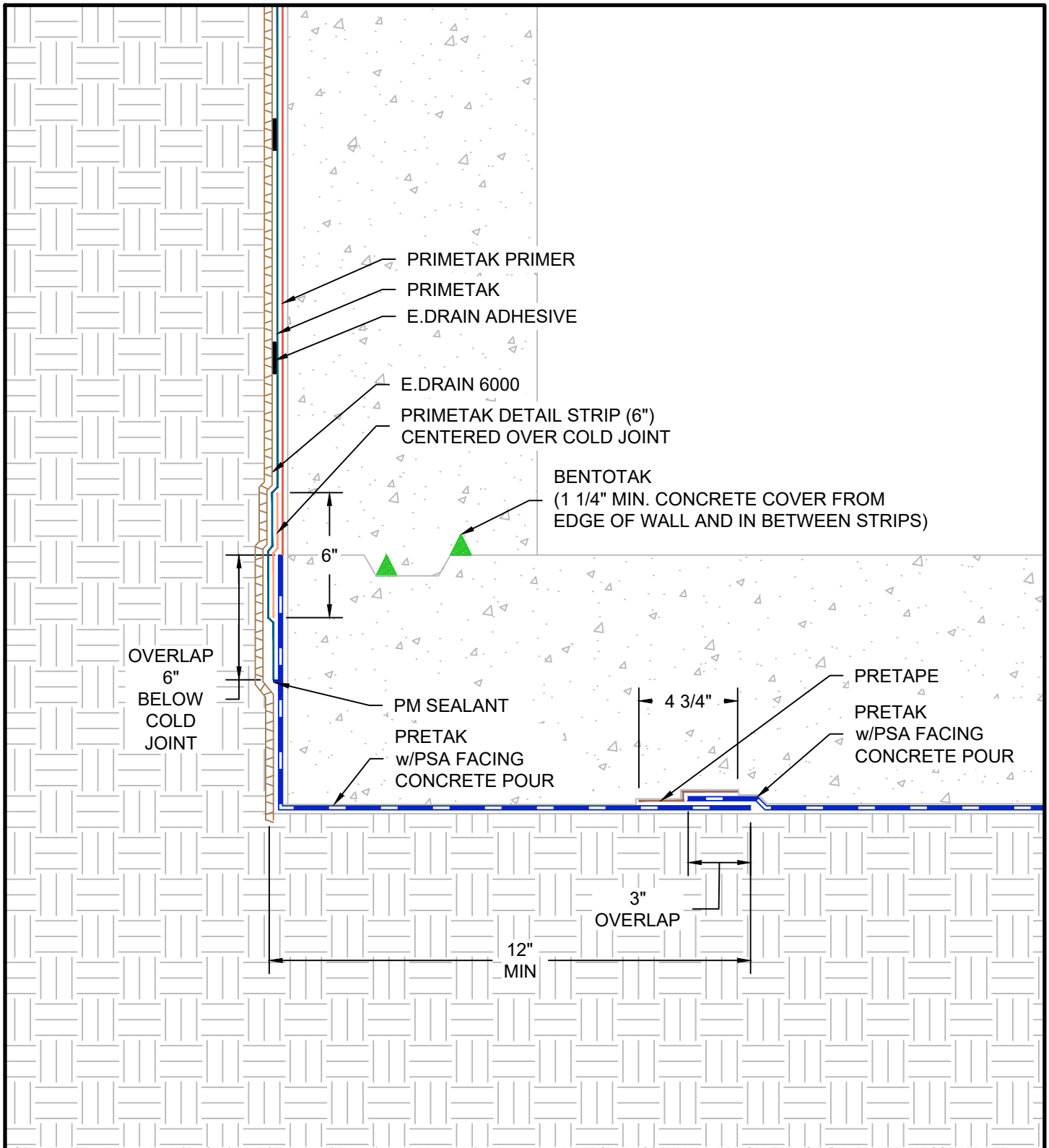
G:\My Drive\Epro Master Folder\Drafting\Details\Transitions\Hybrids\Shoring To Deck\51.340.1.1.55 WALL TO DECK TRANSITION -NON-HYDROSTATIC - WALL PRETAK TO SUSPENDED SLAB CONSTRUCTION JOINT.dwg [Detail] May 11, 2021 - 9:17am

SHORING TO DECK TRANSITION - NON-HYDROSTATIC - PRETAK TO SUSPENDED SLAB CONSTRUCTION JOINT

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.340.1.1.55
DRAFTER	DATE
RJT	5/10/2021

PRETAK / PRIMETAK

NTS



G:\My Drive\Epro Master Folder\Drafting\Details\Transitions\Hybrids\Underslab to Wall\51.143.1.1.55 UNDERSLAB ASSEMBLY - VERTICAL TRANSITION - PRIMETAK POST-APPLIED SYSTEM (OPTION 1).dwg [Detail] August 10, 2022 - 4:11pm

UNDERSLAB ASSEMBLY - VERTICAL TRANSITION - PRIMETAK POST-APPLIED SYSTEM (POSITIVE LAP SEAM)

SYSTEM NAME	DRAWING NUMBER
PRETAK / PRIMETAK	51.143.1.1.55
DRAFTER	DATE
RJT	7/25/2022

PRETAK / PRIMETAK

NTS