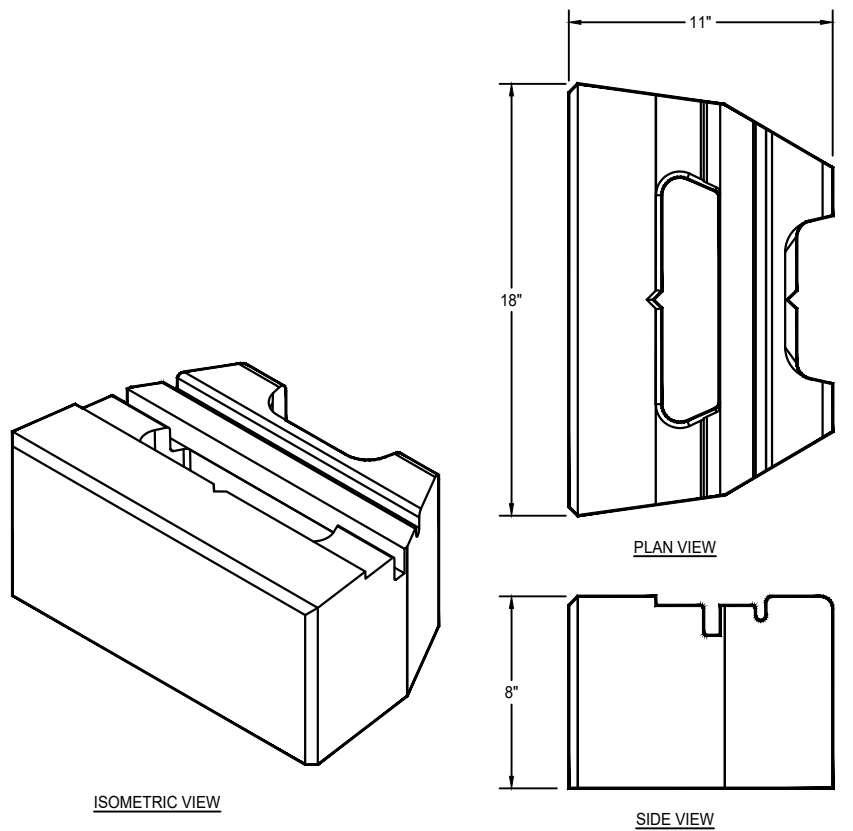
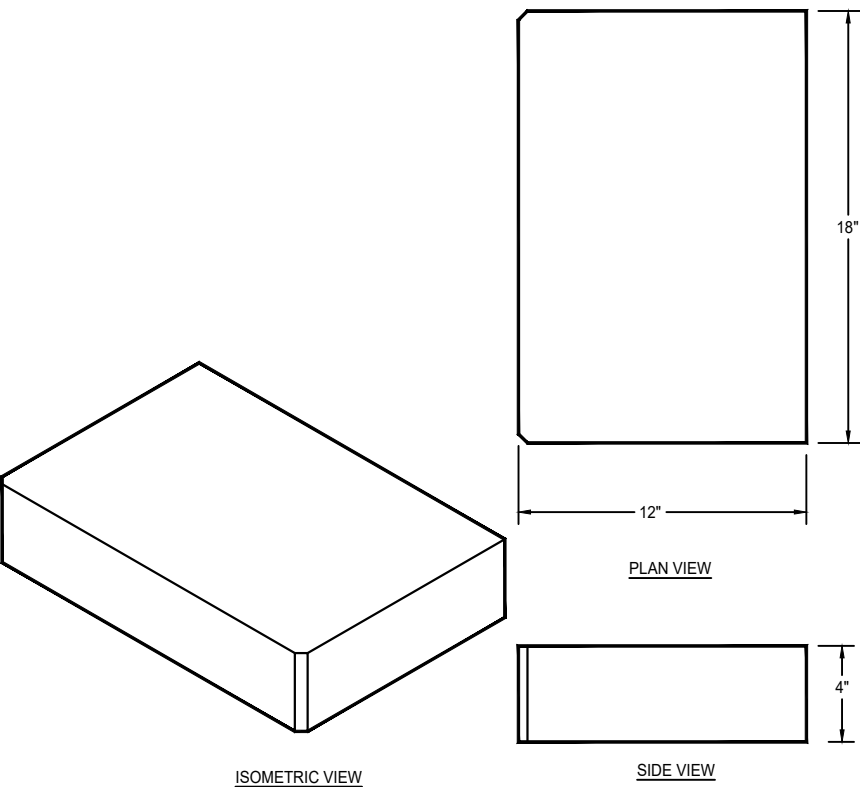


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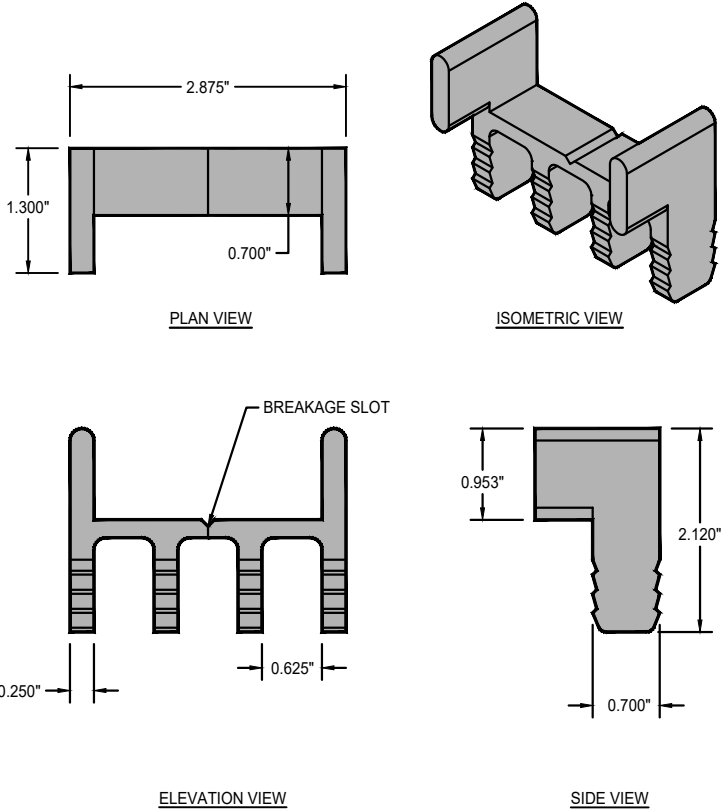


**MESA STANDARD UNIT (STRAIGHT SPLIT FACE)**  
NOT TO SCALE

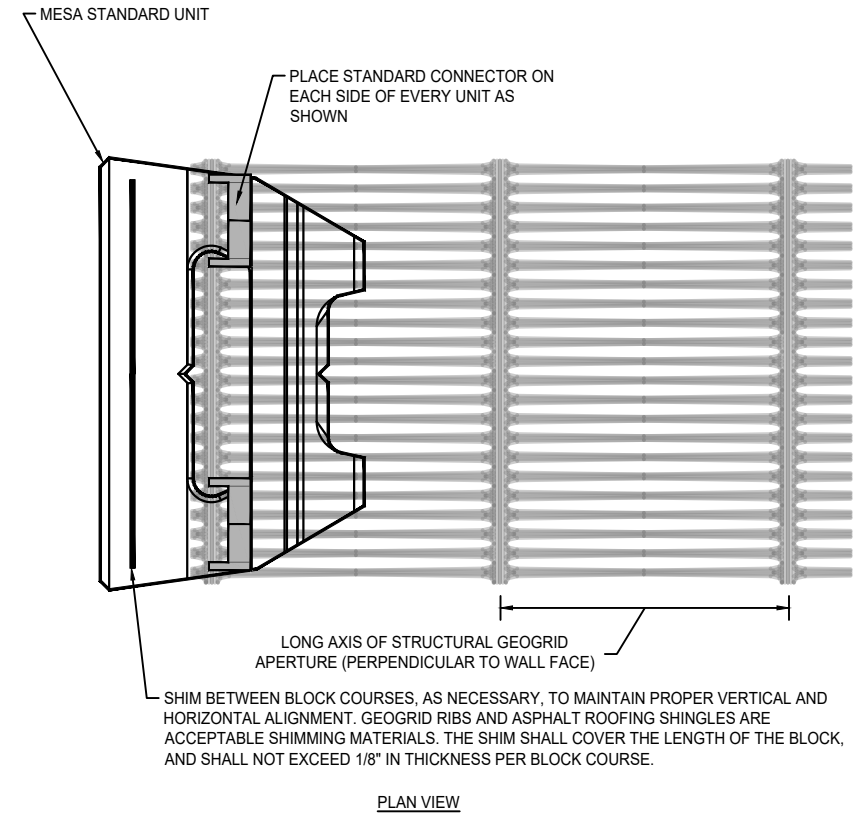


NOTE: DIMENSIONS VARY BASED ON PRODUCT AVAILABILITY

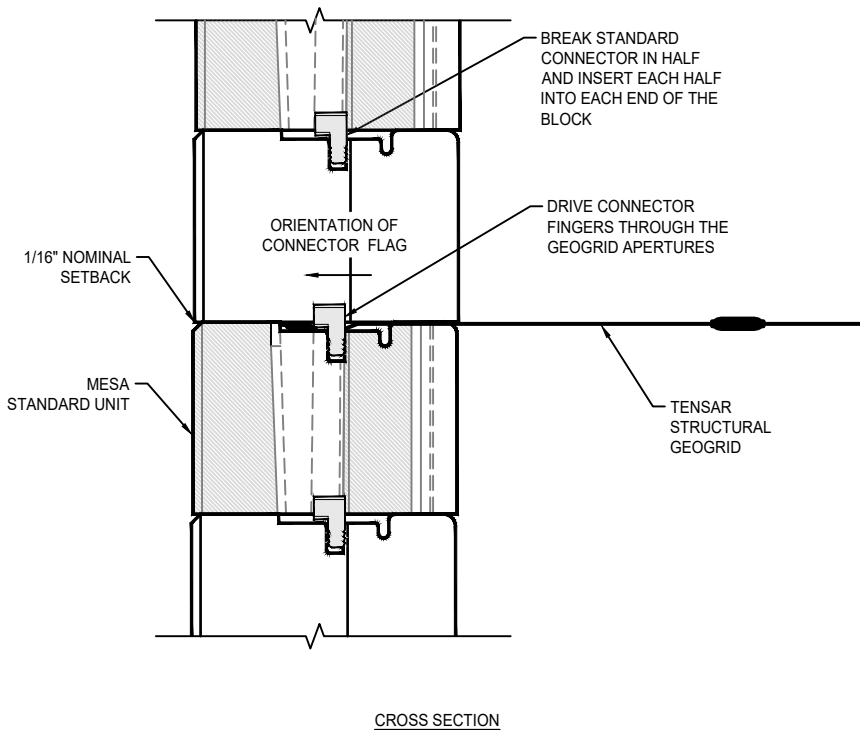
**CAP UNIT**  
NOT TO SCALE



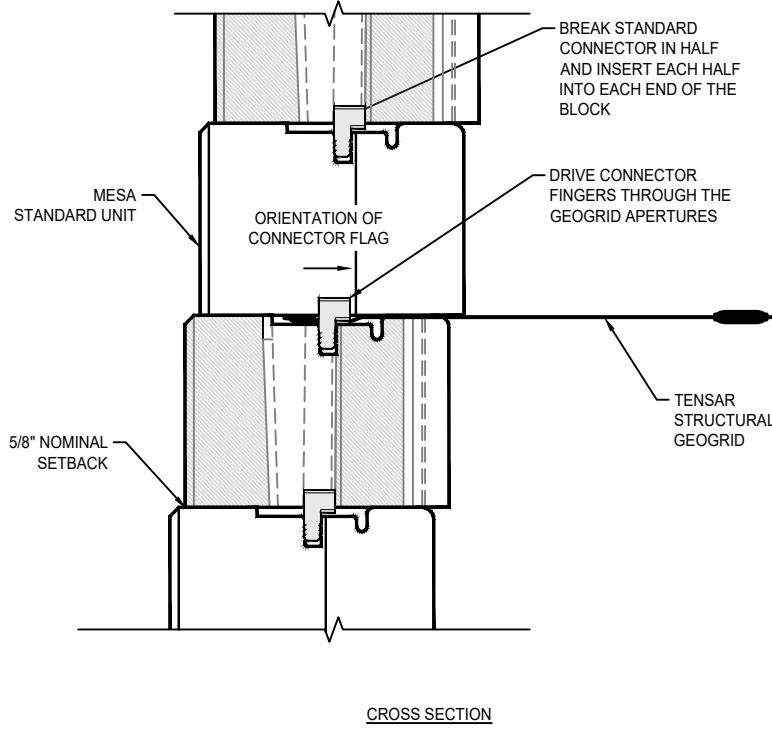
**STANDARD CONNECTOR**  
NOT TO SCALE



**GEOGRID ORIENTATION (STANDARD CONNECTOR)**  
NOT TO SCALE



**GEOGRID CONNECTION DETAIL (NEAR-VERTICAL 0.5°)**  
NOT TO SCALE



**GEOGRID CONNECTION DETAIL (BATTERED 4.5°)**  
NOT TO SCALE

**Tensor.**

Tensor International Corporation  
2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

OWNER

OWNER PROJECT No.

CLIENT

TIC PROJECT No.

DRAWN BY: O. MARTINEZ

DESIGNED BY:

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY):

0 7/10/18 ISSUED FOR REVIEW RJ

NO. DATE DESCRIPTION BY

REVISION / ISSUE

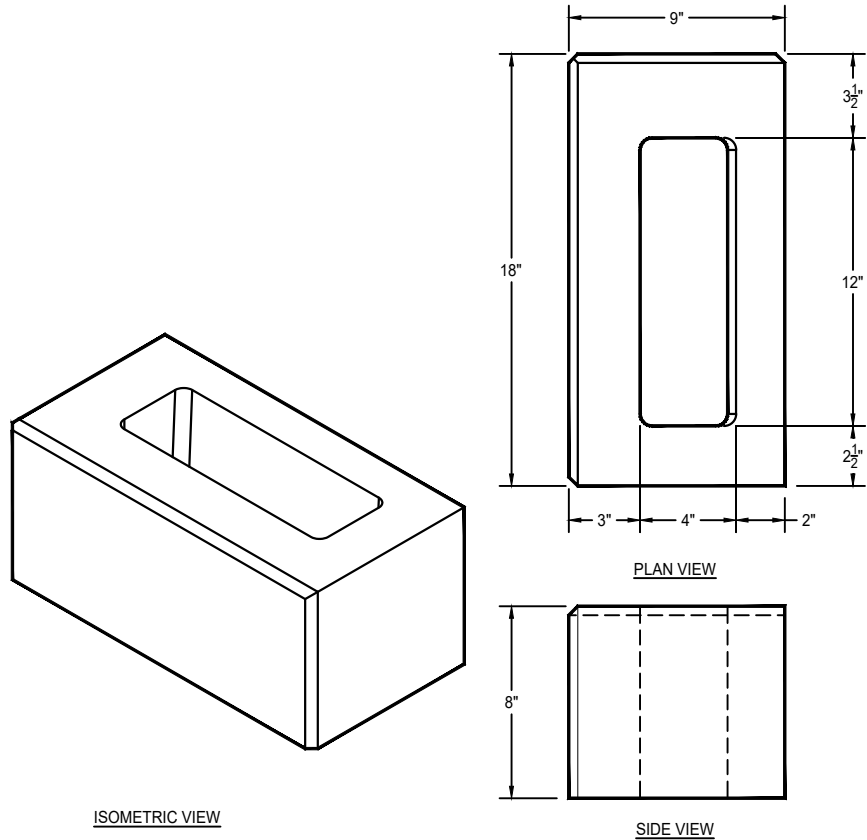
SHEET TITLE

**MESA NON-DOT  
DETAIL PACKAGE**

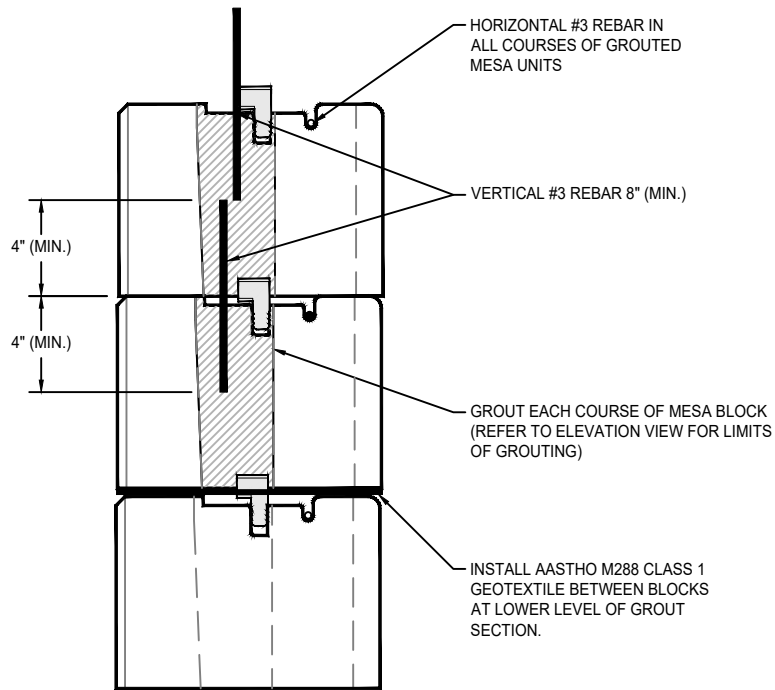
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SHEET 1 OF

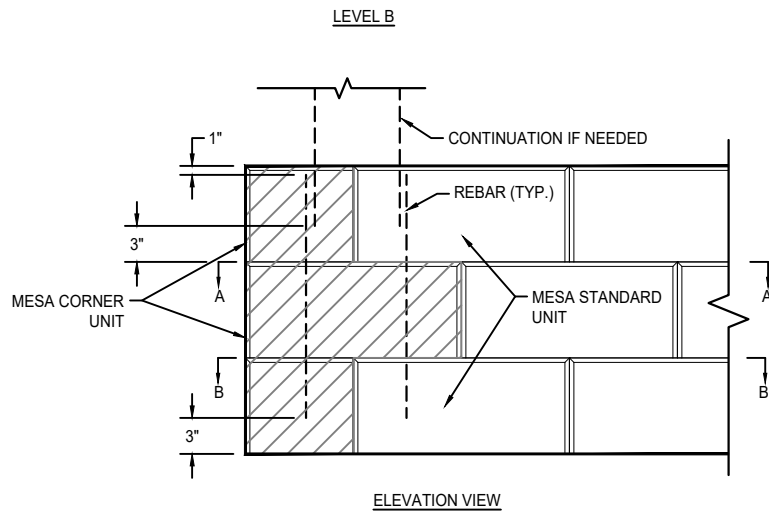
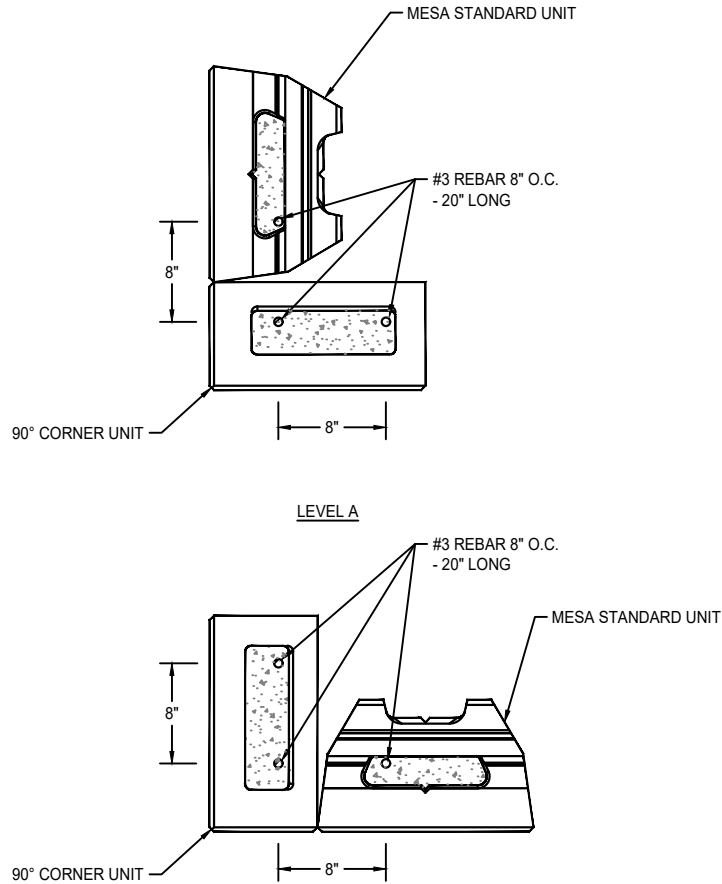
Plotted on: June 11, 2020  
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**CORNER UNIT (STRAIGHT SPLIT FACE)**  
NOT TO SCALE



**MESA GROUT DETAIL**  
NOT TO SCALE



**NOTES:**

1. ALTERNATE CORNER UNIT DIRECTION FOR PROPER RUNNING BOND.
2. GROUT CAVITY OF CORNER BLOCK.
3. ENSURE THAT SPLIT FACES ARE EXPOSED.

**MESA CORNER UNIT AND REBAR**  
NOT TO SCALE

**Tensar.**

Tensar International Corporation  
2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

\_\_\_\_\_, \_\_\_\_\_

OWNER \_\_\_\_\_

OWNER PROJECT No. \_\_\_\_

CLIENT \_\_\_\_\_

TIC PROJECT No. \_\_\_\_

DRAWN BY: O. MARTINEZ

DESIGNED BY: \_\_\_\_

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY): \_\_\_\_

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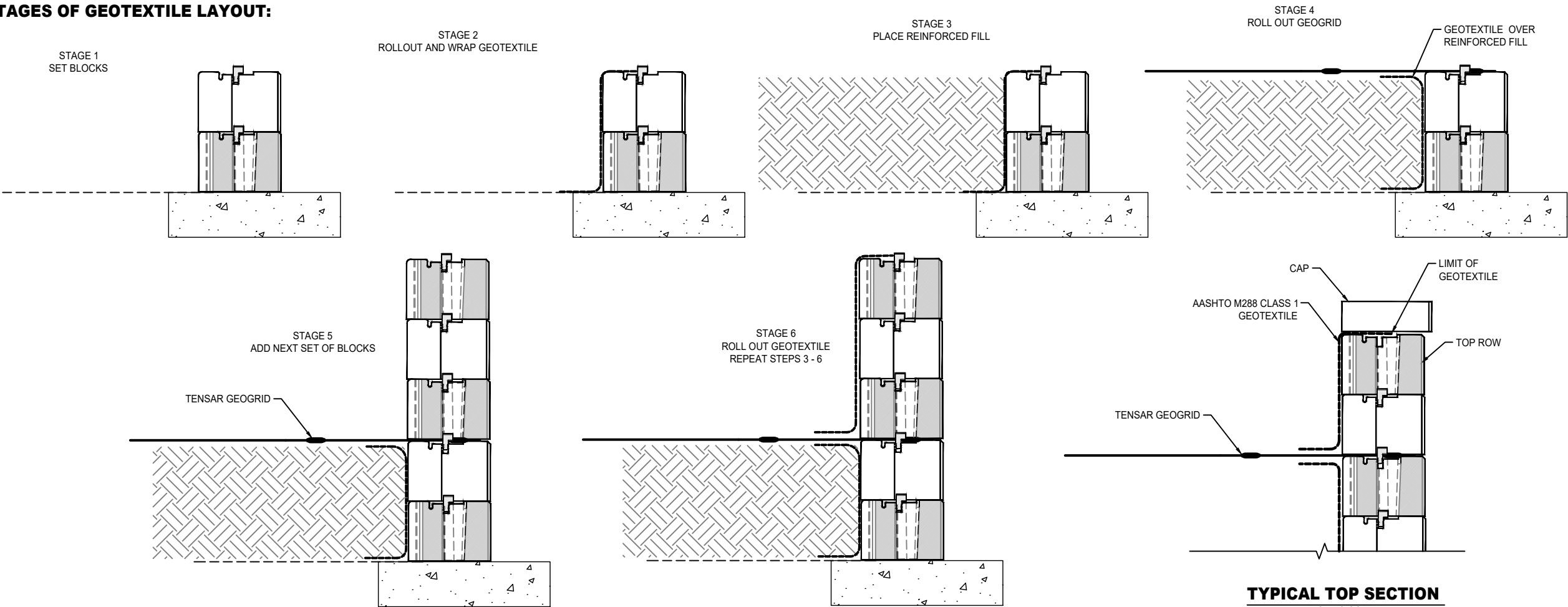
SHEET TITLE

**MESA HDPE  
STANDARD DETAILS**

SCALE: AS SHOWN

SHEET 2 OF \_\_\_\_

STAGES OF GEOTEXTILE LAYOUT:



FABRIC AND GRAVEL FILL SPECIFICATION

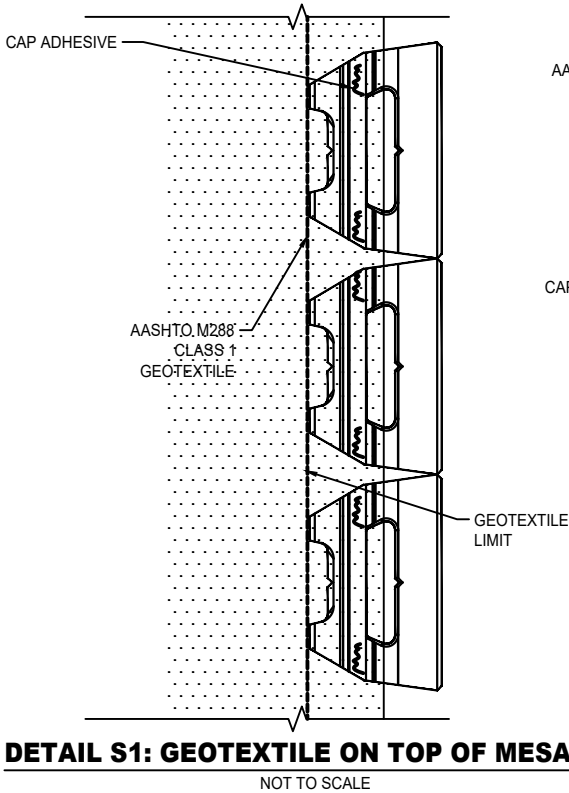
When the select fill used in the reinforced zone for the Project is considered free-draining (less than 5% passing the No. 200 sieve), no geotextile or gravel fill is required behind the Mesa facing units, unless prescribed by the Project Engineer. When the select fill contains fines between 5% and 15%, geotextile fabric is required behind the Mesa facing units; however, no gravel fill is needed, unless prescribed by the Project Engineer. Select fill with fines in excess of 15% requires the use of both geotextile fabric and gravel fill behind the Mesa facing units.

If required per the note above, the geotextile separator shall be an eight (8) oz. per square yard nonwoven needle-punched AASHTO Class 1 fabric. Unless otherwise approved by Tensar, the geotextile shall be delivered to the project site in rolls that have been factory cut to the specified widths for the installation.

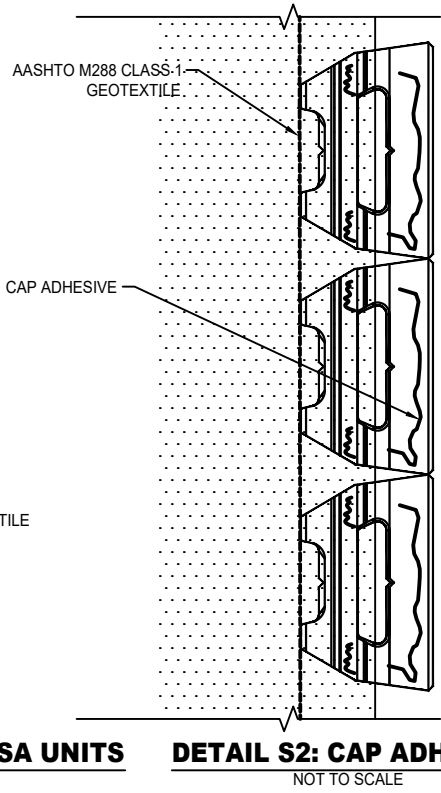
INSTALLATION PROCEDURE

1. Install each course of the Mesa facing units between the top of the last geogrid placed and the bottom the next layer of geogrid above as shown on the approved shop drawings. The facing units shall be aligned and leveled in accordance with installation guide.
2. Prior to placing the select backfill and if required, gravel fill and geotextile fabric shall be installed. The geotextile shall be placed behind the units such that a minimum of six (6) inches of material is turned into the fill at the top and the bottom. The geotextile shall then be adjusted to present a relatively smooth surface.
3. The select backfill shall then be placed and compacted in accordance with the approved shop drawings and project specifications.
4. After the select backfill has been compacted and properly graded for the installation of the next layer of geogrid reinforcement, the geotextile on the top units shall be pulled back onto the backfill.
5. Install the geogrid reinforcement and repeat the process commencing with step 1 above.
6. After the last elevation layer of primary geogrid reinforcement has been placed, install the remaining courses of Mesa facing units in accordance with the details on the approved shop drawings.
7. Prior to installation of cap unit, place a line of adhesive in the depressed area between the connector slot and the face of the unit per Detail S1.
8. Place a line of adhesive along the top of the Mesa facing units just behind the face per Detail S2.
9. Butt sides of cap units as shown in Detail S3.

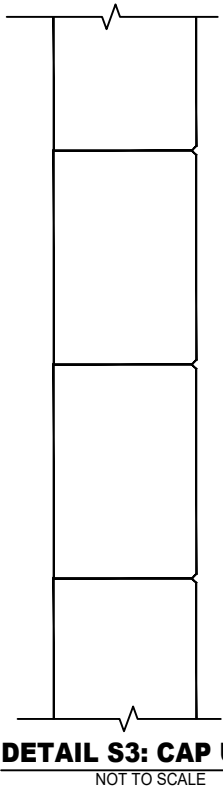
Geotextile widths required for the detail: AASHTO M288 Class 1: 36 inch



DETAIL S1: GEOTEXTILE ON TOP OF MESA UNITS



DETAIL S2: CAP ADHESIVE



DETAIL S3: CAP UNITS

Tensar.

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2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

TIC STANDARD DETAILS

\_\_\_\_\_, \_\_\_\_\_

OWNER \_\_\_\_\_

OWNER PROJECT No. \_\_\_\_

CLIENT \_\_\_\_\_

TIC PROJECT No. \_\_\_\_

DRAWN BY: O. MARTINEZ

DESIGNED BY: \_\_\_\_

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY):  
\_\_\_\_

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NO.	DATE	DESCRIPTION	BY

REVISION / ISSUE

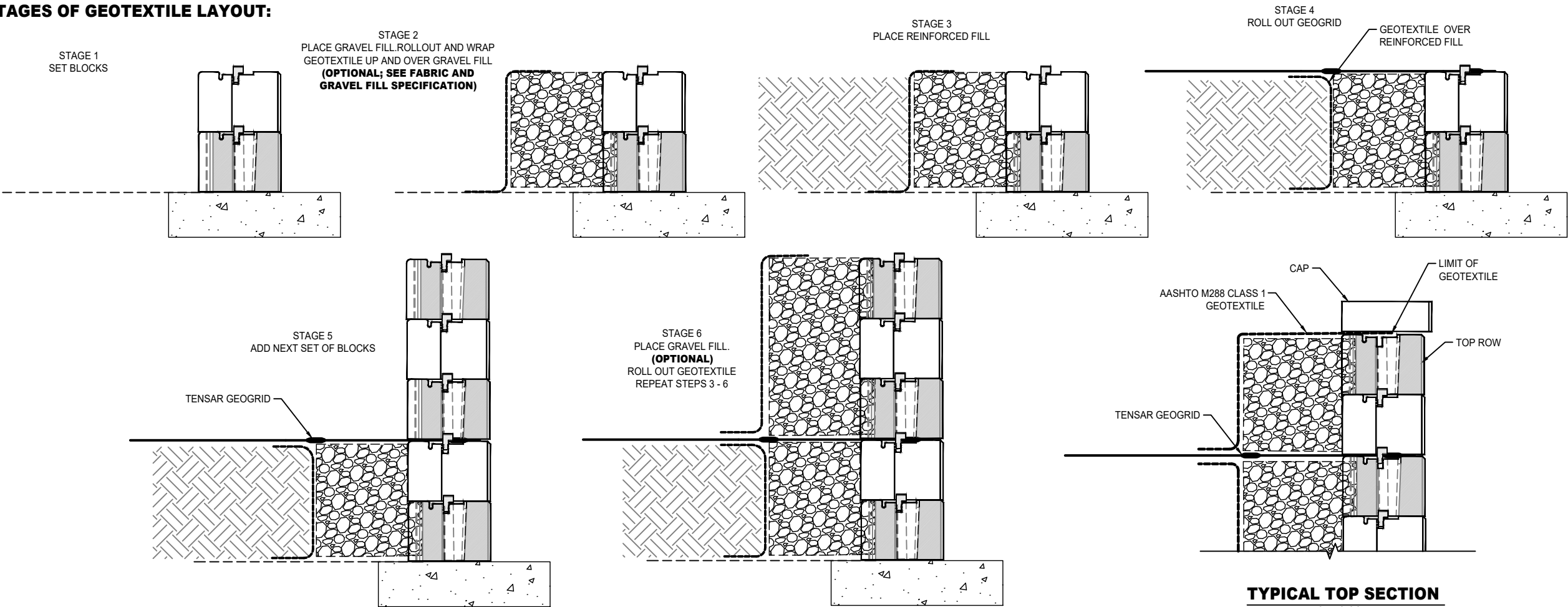
SHEET TITLE

MESA HDPE  
STANDARD DETAILS

SCALE: AS SHOWN

SHEET 3 OF \_\_\_\_

STAGES OF GEOTEXTILE LAYOUT:



FABRIC AND GRAVEL FILL SPECIFICATION

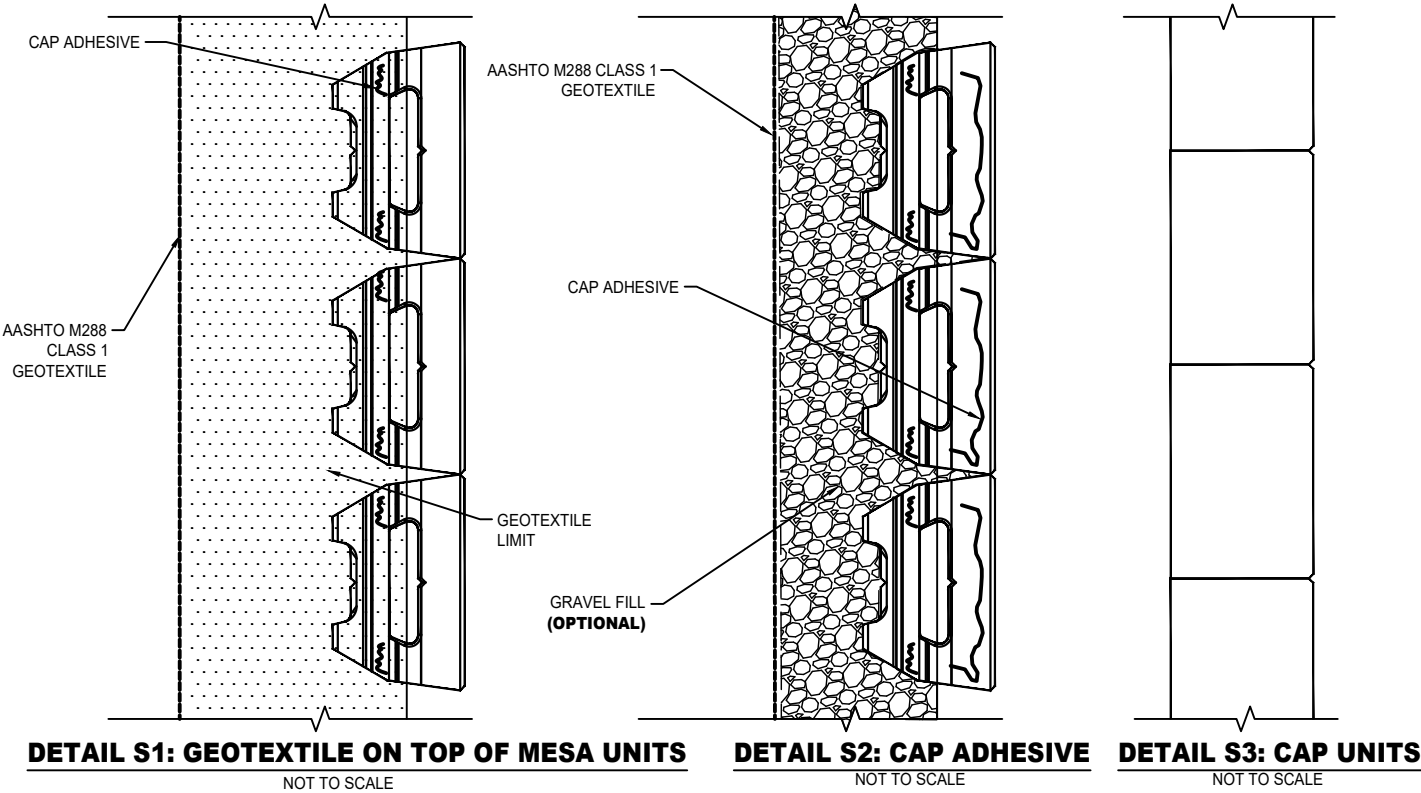
When the select fill used in the reinforced zone for the Project is considered free-draining (less than 5% passing the No. 200 sieve), no geotextile or gravel fill is required behind the Mesa facing units, unless prescribed by the Project Engineer. When the select fill contains fines between 5% and 15%, geotextile fabric is required behind the Mesa facing units; however, no gravel fill is needed, unless prescribed by the Project Engineer. Select fill with fines in excess of 15% requires the use of both geotextile fabric and gravel fill behind the Mesa facing units.

If required per the note above, the geotextile separator shall be an eight (8) oz. per square yard nonwoven needle-punched AASHTO Class 1 fabric. Unless otherwise approved by Tensar, the geotextile shall be delivered to the project site in rolls that have been factory cut to the specified widths for the installation.

INSTALLATION PROCEDURE

1. Install each course of the Mesa facing units between the top of the last geogrid placed and the bottom the next layer of geogrid above as shown on the approved shop drawings. The facing units shall be aligned and leveled in accordance with installation guide.
2. Prior to placing the select backfill and if required, gravel fill and geotextile fabric shall be installed. The geotextile shall be placed behind the units such that a minimum of six (6) inches of material is turned into the fill at the top and the bottom. The geotextile shall then be adjusted to present a relatively smooth surface.
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9. Butt sides of cap units as shown in Detail S3.

Geotextile widths required for the detail: AASHTO M288 Class 1: 36 inch



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PROJECT NAME AND LOCATION

TIC STANDARD DETAILS

\_\_\_\_\_, \_\_\_\_\_

OWNER \_\_\_\_\_

OWNER PROJECT No. \_\_\_\_

CLIENT \_\_\_\_\_

TIC PROJECT No. \_\_\_\_

DRAWN BY: O. MARTINEZ

DESIGNED BY: \_\_\_\_

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY):  
\_\_\_\_

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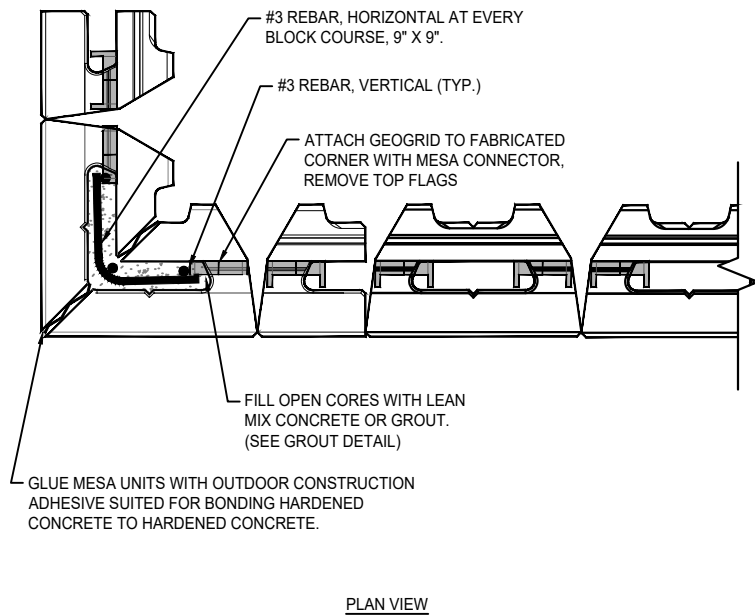
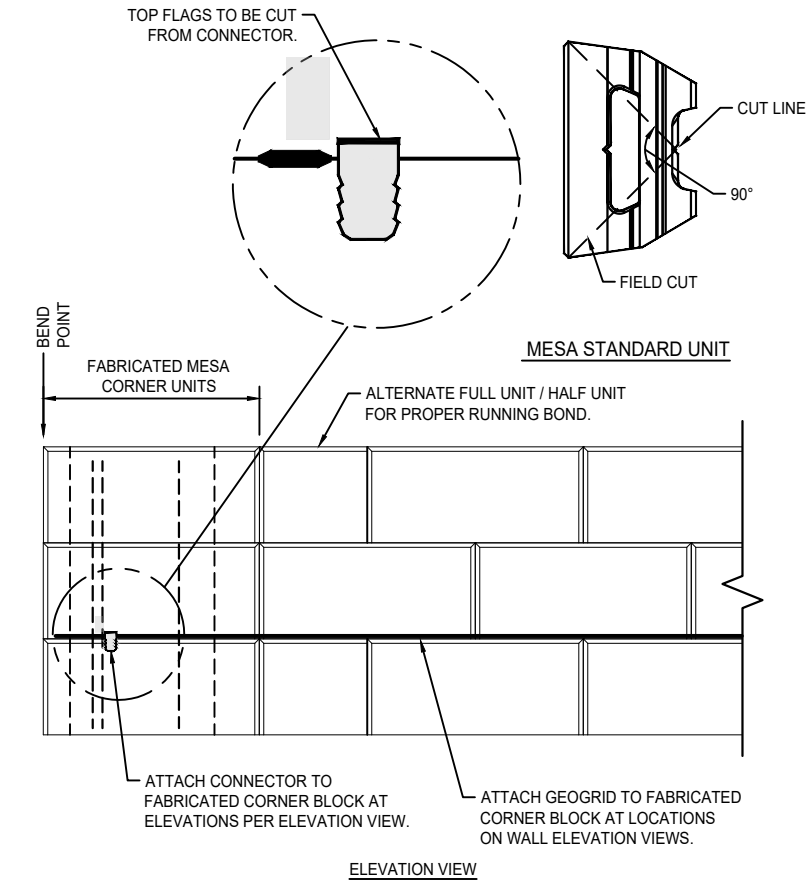
SHEET TITLE

MESA HDPE  
STANDARD DETAILS

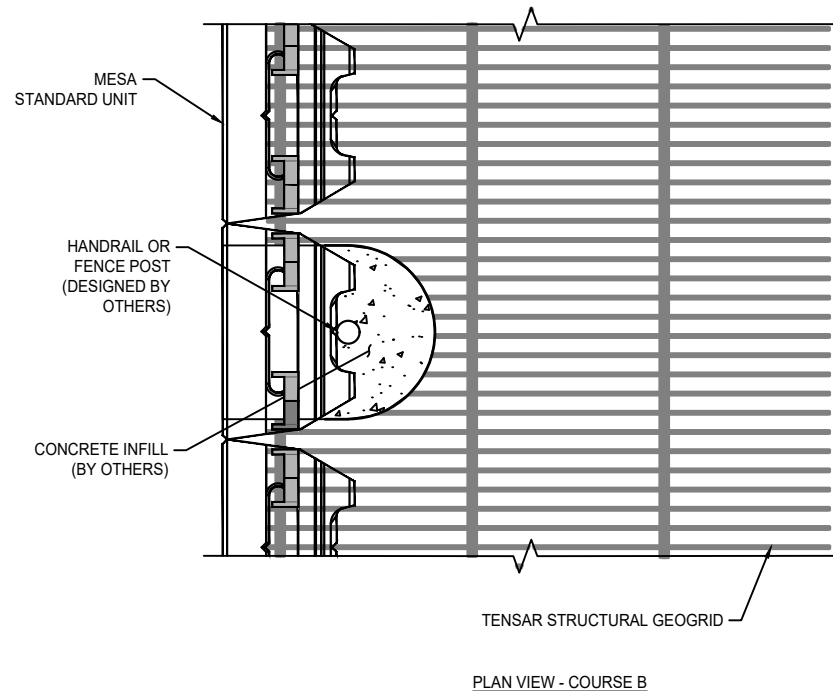
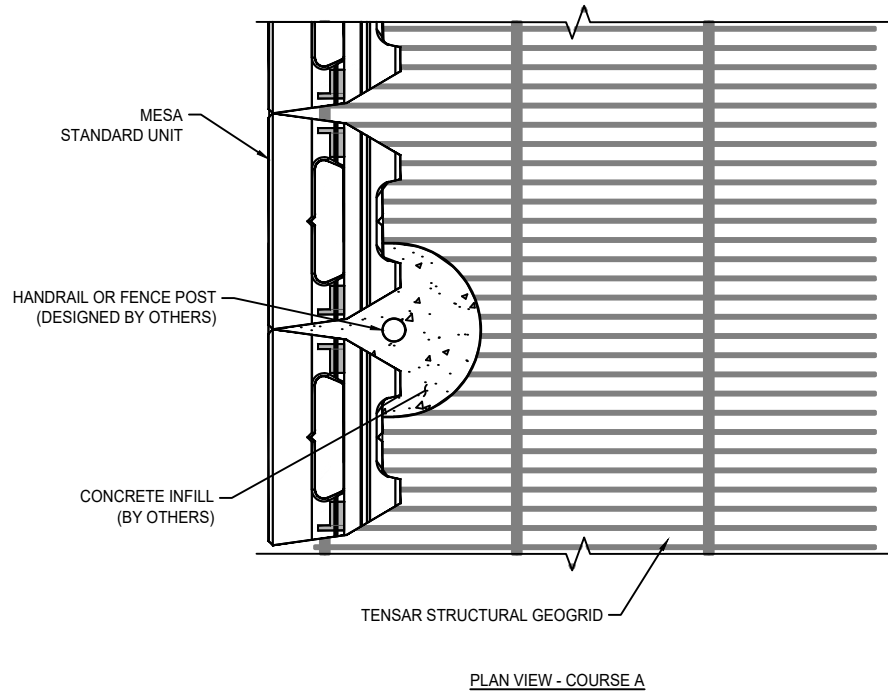
SCALE: AS SHOWN

SHEET 4 OF \_\_\_\_

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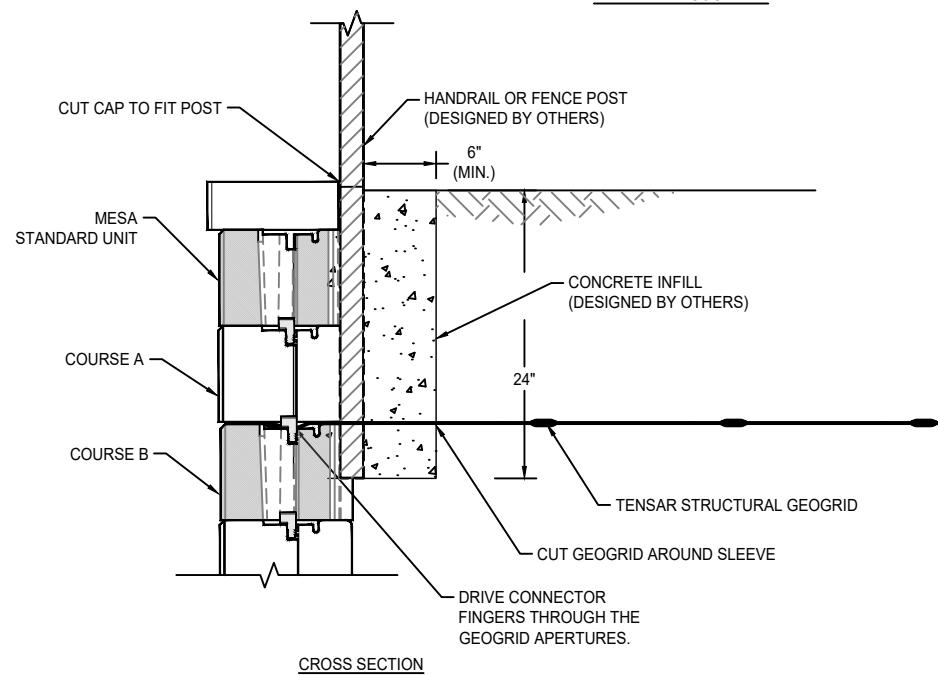


**FABRICATED MESA CORNER DETAIL (90°)**  
NOT TO SCALE



**NOTES:**

1. PLACE AND COMPACT FILL SURROUNDING THE SLEEVE PER PROJECT SPECIFICATIONS.
2. PLACE TOP LAYER OF TENSAR STRUCTURAL GEOGRID AND REMAINING MESA STANDARD UNITS ABOVE IT.
3. CUT TENSAR STRUCTURAL GEOGRID AND THEN SET HANDRAIL OR FENCE POST.
4. FORM AND POUR CONCRETE INFILL AT TAIL OF MESA STANDARD UNITS.



**HANDRAIL OR FENCE POST ON TOP OF WALL**  
NOT TO SCALE

**Tensar.**

Tensar International Corporation  
2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

OWNER	----
OWNER PROJECT No.	----
CLIENT	----- ----- ----- -----
TIC PROJECT No.	----
DRAWN BY:	<u>O. MARTINEZ</u>
DESIGNED BY:	----
CHECKED BY:	<u>R. JOHNSON</u>
ENGINEER OF RECORD (MSE STRUCTURE ONLY):	-----

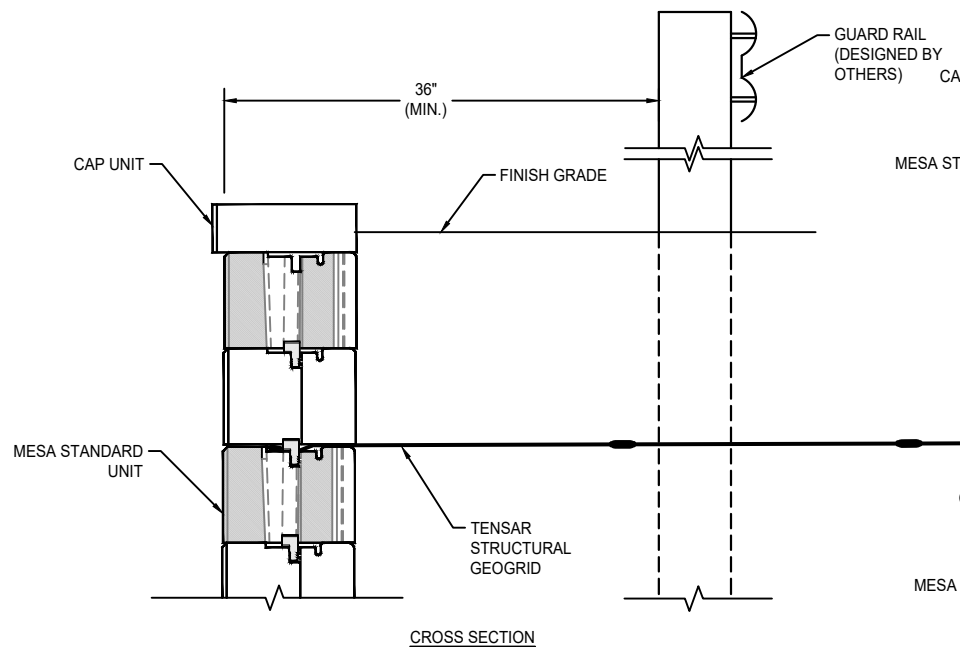
NO.	DATE	DESCRIPTION	BY
REVISION / ISSUE			

SHEET TITLE

**MESA HDPE  
STANDARD DETAILS**

SCALE: AS SHOWN

Plotted on: June 11, 2020  
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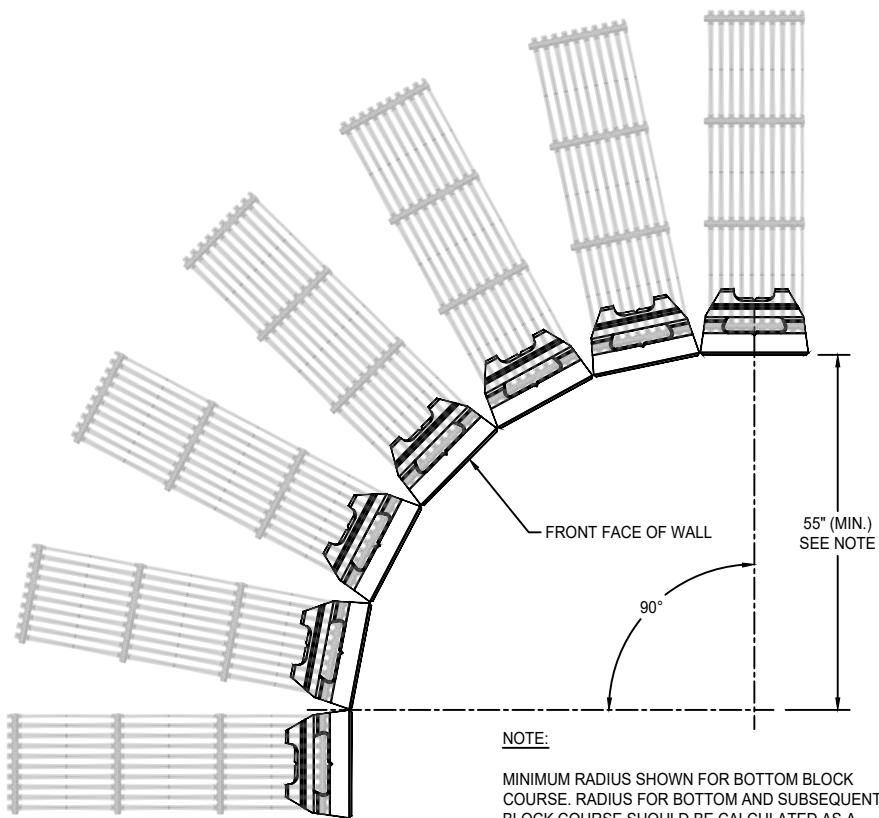


**NOTES:**

1. PLACE AND COMPACT BACKFILL TO FINISH GRADE.
2. AUGER OR DRIVE POST THROUGH TENSAR GEOGRID, AS REQUIRED, TO SPECIFIED DEPTH.
3. INSTALL POST AND FILL HOLE WITH 2000 PSI (MIN) CONCRETE, OR IN ACCORDANCE WITH PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

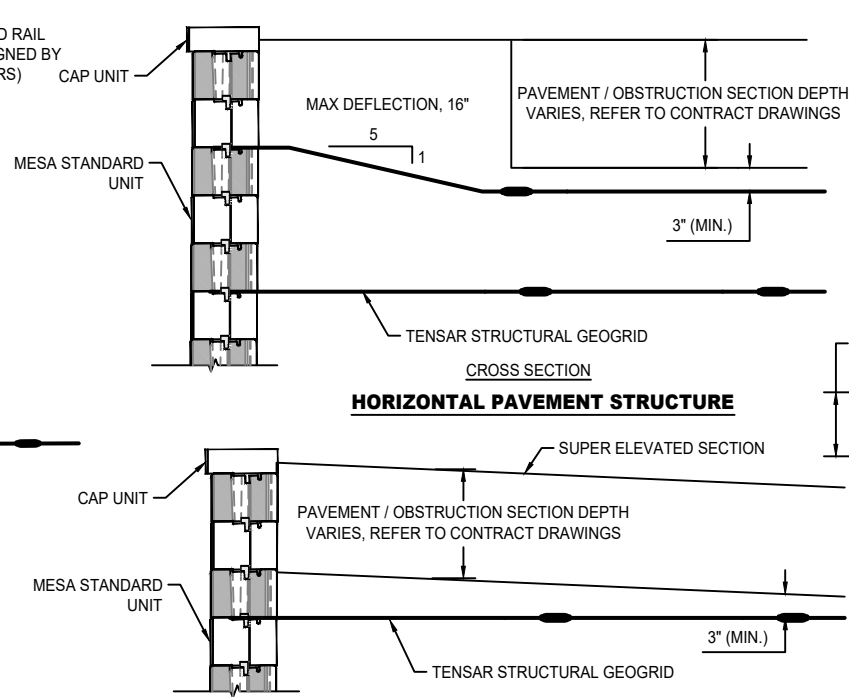
**TOP OF WALL SECTION & GUARD RAIL DETAIL**

NOT TO SCALE



**90° INSIDE CURVE DETAIL**

NOT TO SCALE

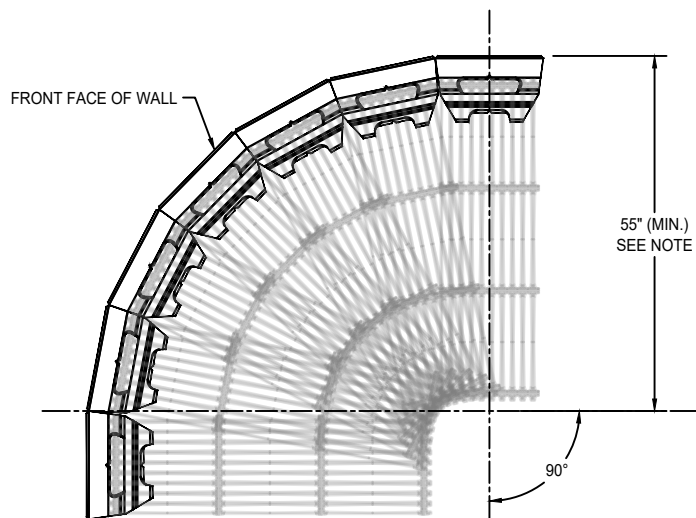


**NOTE:**

CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PLACEMENT OF THE GEOGRID TO AVOID CONFLICT WITH THE CONTRACT PAVEMENT / OBSTRUCTION SECTION. GEOGRID MUST BE SEPARATED FROM THE PAVEMENT / OBSTRUCTION SECTION BY A MINIMUM OF 3\"/>

**GEOGRID PLACEMENT AT PAVEMENT / OBSTRUCTION**

NOT TO SCALE

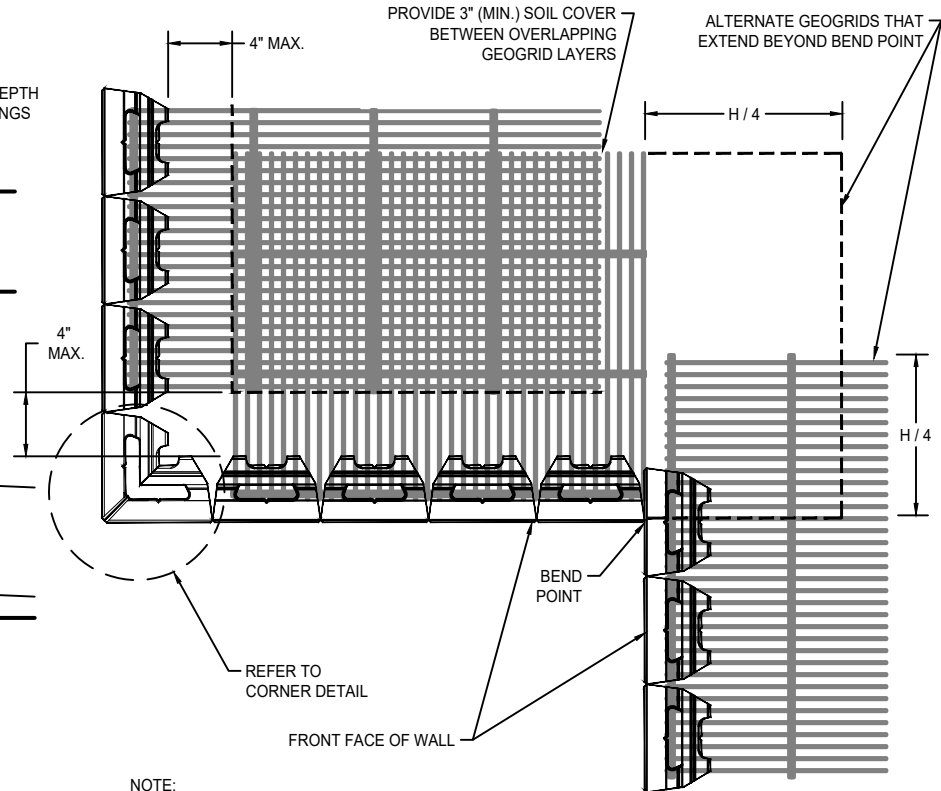


**NOTE:**

MINIMUM RADIUS SHOWN FOR TOP BLOCK COURSE. RADIUS FOR BOTTOM AND SUBSEQUENT BLOCK COURSE SHOULD BE CALCULATED AS A FUNCTION OF WALL HEIGHT AND BATTER.

**90° OUTSIDE CURVE DETAIL**

NOT TO SCALE



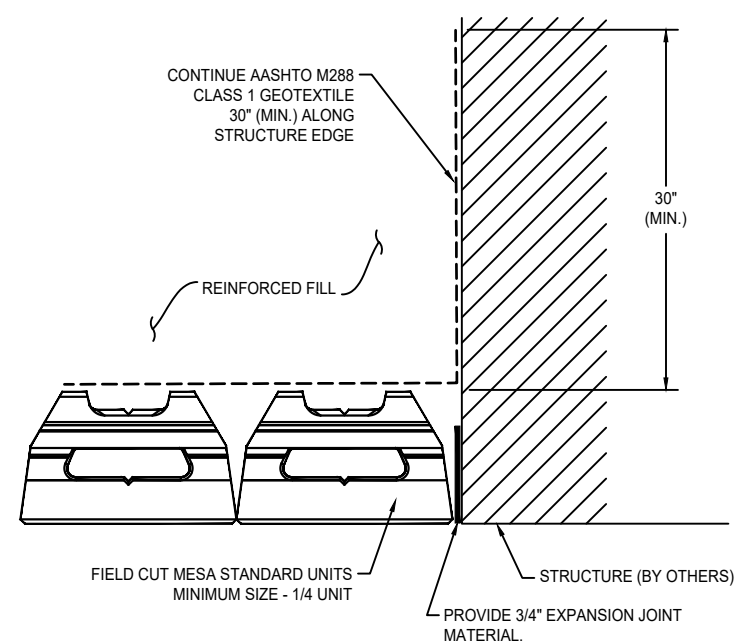
**NOTE:**

"H" IS DEFINED AS THE WALL HEIGHT

**PLAN VIEW**

**MESA WALL ALONG CORNERS DETAIL**

NOT TO SCALE



**NOTES:**

1. GEOGRID AND CONNECTORS NOT SHOWN FOR CLARITY.
2. FIELD CUT MESA STANDARD UNIT (MIN. 1/4 UNIT) FOR RUNNING BOND.
3. REFER TO TYPICAL CROSS-SECTION FOR FILL AND DRAINAGE REQUIREMENT AT BACK OF WALL.
4. ATTACH GEOTEXTILE TO STRUCTURE WITH CONSTRUCTION ADHESIVE.

**MESA WALL TRANSITION AT STRUCTURE**

NOT TO SCALE

**Tensor.**

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2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

\_\_\_\_\_, \_\_\_\_\_

OWNER \_\_\_\_\_

OWNER PROJECT No. \_\_\_\_\_

CLIENT \_\_\_\_\_

TIC PROJECT No. \_\_\_\_\_

DRAWN BY: O. MARTINEZ

DESIGNED BY: \_\_\_\_\_

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY): \_\_\_\_\_

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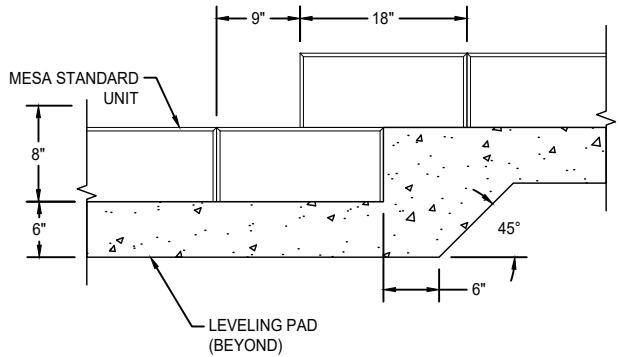
SHEET TITLE

**MESA HDPE  
STANDARD DETAILS**

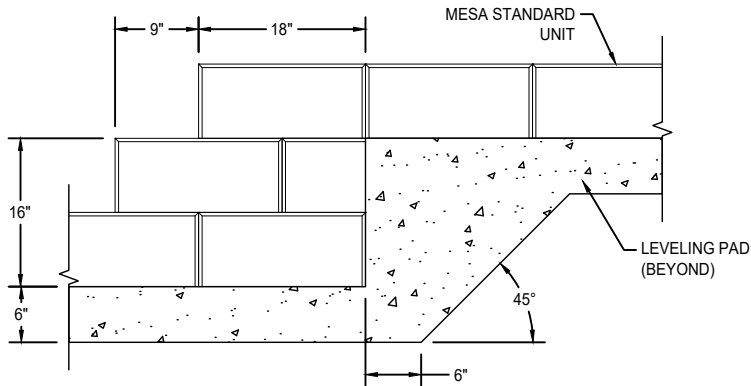
SCALE: AS SHOWN

SHEET 6 OF \_\_\_\_\_

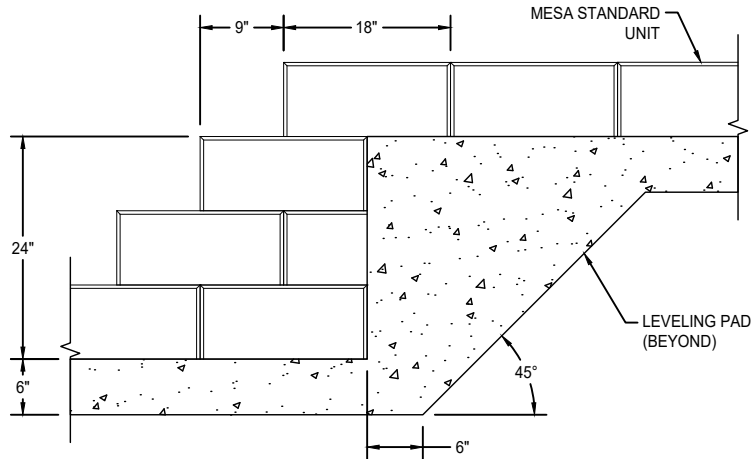
Plotted on: June 11, 2020  
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CASE 1: ONE BLOCK STEP (ELEVATION)

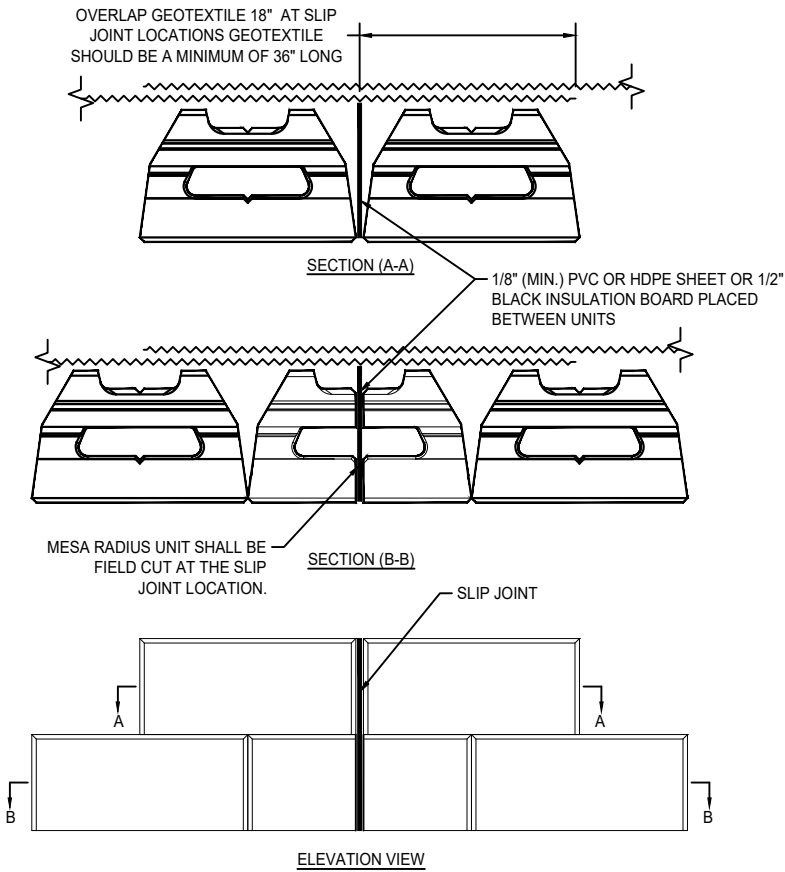


CASE 2: TWO BLOCK STEP (ELEVATION)

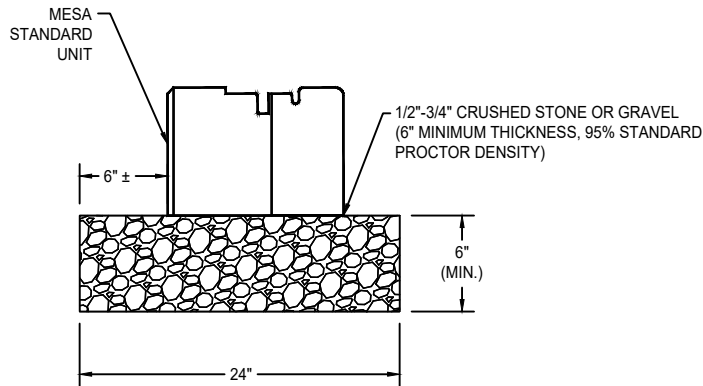


CASE 3: THREE BLOCK STEP (ELEVATION)

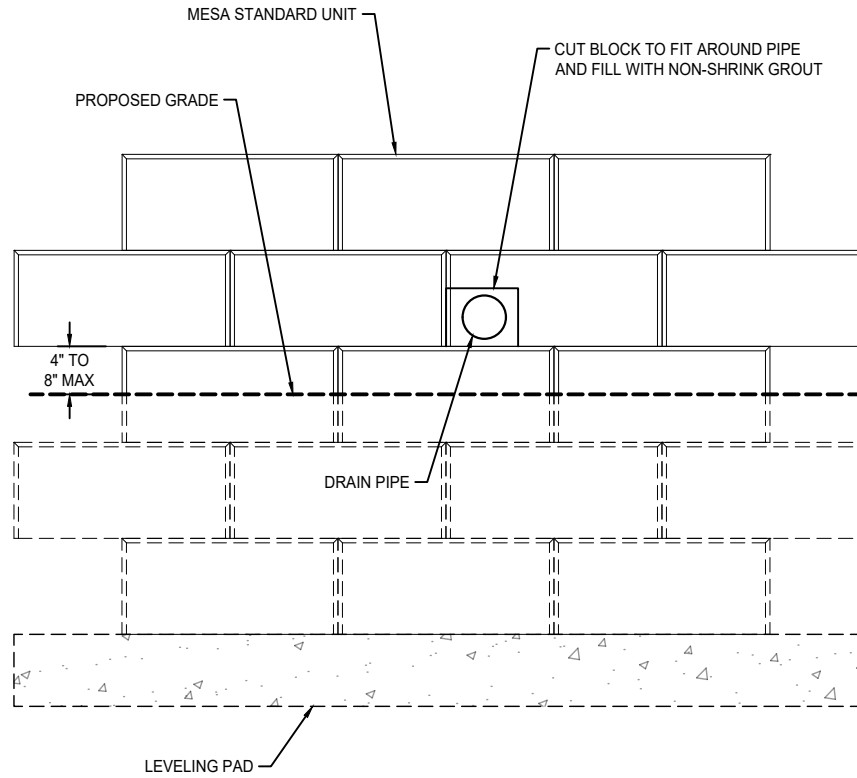
1, 2 & 3 BLOCK STEP DETAIL  
NOT TO SCALE



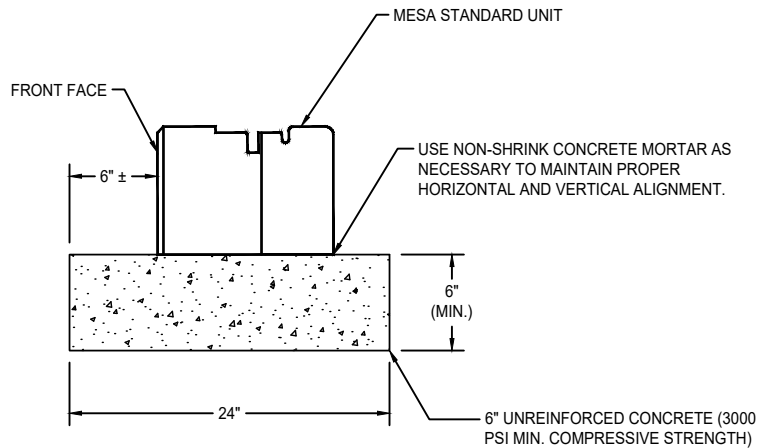
SLIP JOINT DETAIL  
NOT TO SCALE



GRAVEL LEVELING PAD DETAIL  
NOT TO SCALE



DRAIN PIPE OUTLET DETAIL  
NOT TO SCALE



CONCRETE LEVELING PAD DETAIL  
NOT TO SCALE

**Tensor.**

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PROJECT NAME AND LOCATION

## TIC STANDARD DETAILS

OWNER	----
OWNER PROJECT No.	----
CLIENT	----
TIC PROJECT No.	----
DRAWN BY:	O. MARTINEZ
DESIGNED BY:	----
CHECKED BY:	R. JOHNSON
ENGINEER OF RECORD (MSE STRUCTURE ONLY):	----

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0	7/10/18	ISSUED FOR REVIEW	RJ
REVISION / ISSUE			

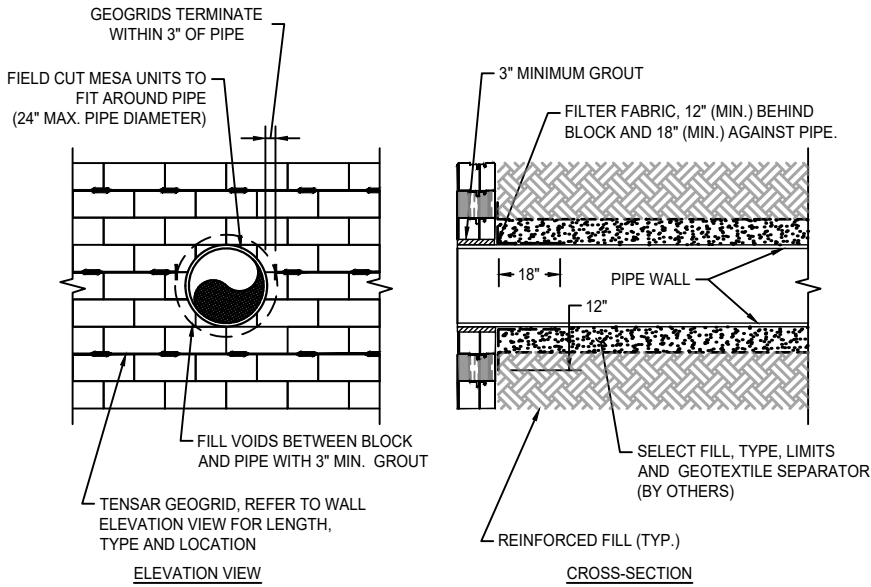
SHEET TITLE

## MESA HDPE STANDARD DETAILS

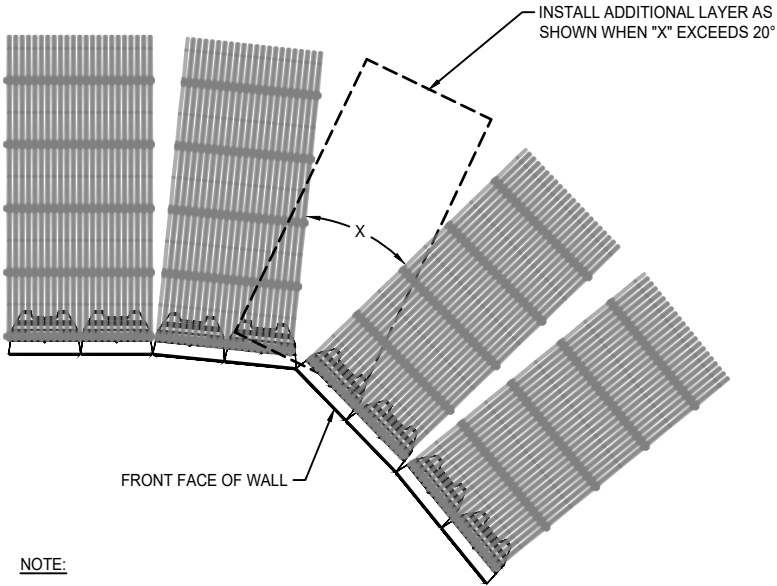
SCALE: AS SHOWN

SHEET 7 OF ----

Plotted on: June 11, 2020  
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**PIPE PENETRATION DETAIL**  
NOT TO SCALE



**NOTE:**  
MULTIPLE BENDS IN WALL ALIGNMENT MAY BE NESSESARY TO ACHIEVE LARGE RADIUS CURVES.

**GEOGRID AT WALL BEND**  
NOT TO SCALE

**Tensar.**

Tensar International Corporation  
2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

\_\_\_\_\_, \_\_\_\_\_

OWNER \_\_\_\_\_

OWNER PROJECT No. \_\_\_\_

CLIENT \_\_\_\_\_

TIC PROJECT No. \_\_\_\_

DRAWN BY: O. MARTINEZ

DESIGNED BY: \_\_\_\_

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY):  
\_\_\_\_

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NO.	DATE	DESCRIPTION	BY
REVISION / ISSUE			

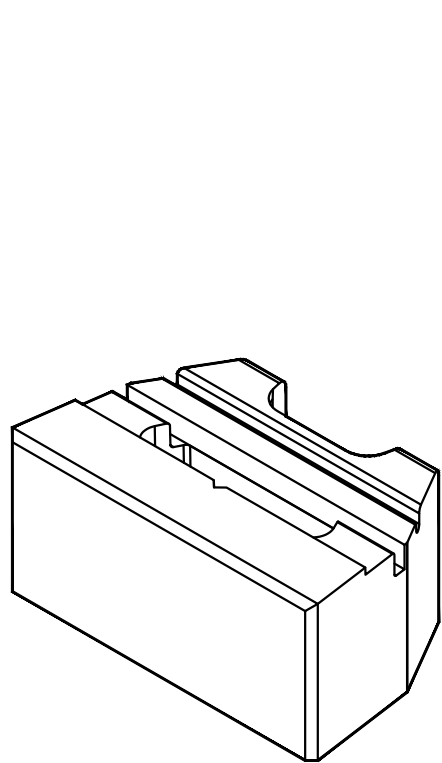
SHEET TITLE

**MESA HDPE  
STANDARD DETAILS**

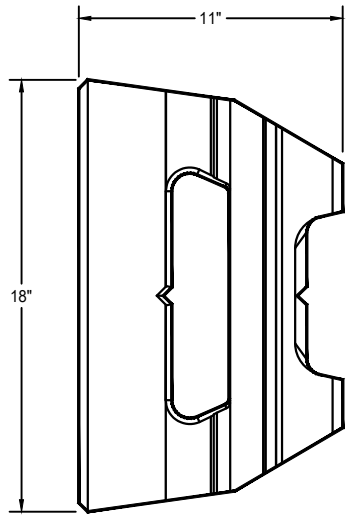
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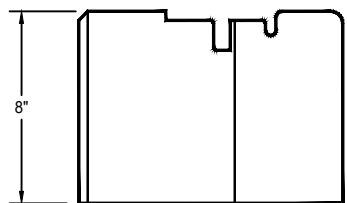
Plotted on: June 11, 2020  
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ISOMETRIC VIEW

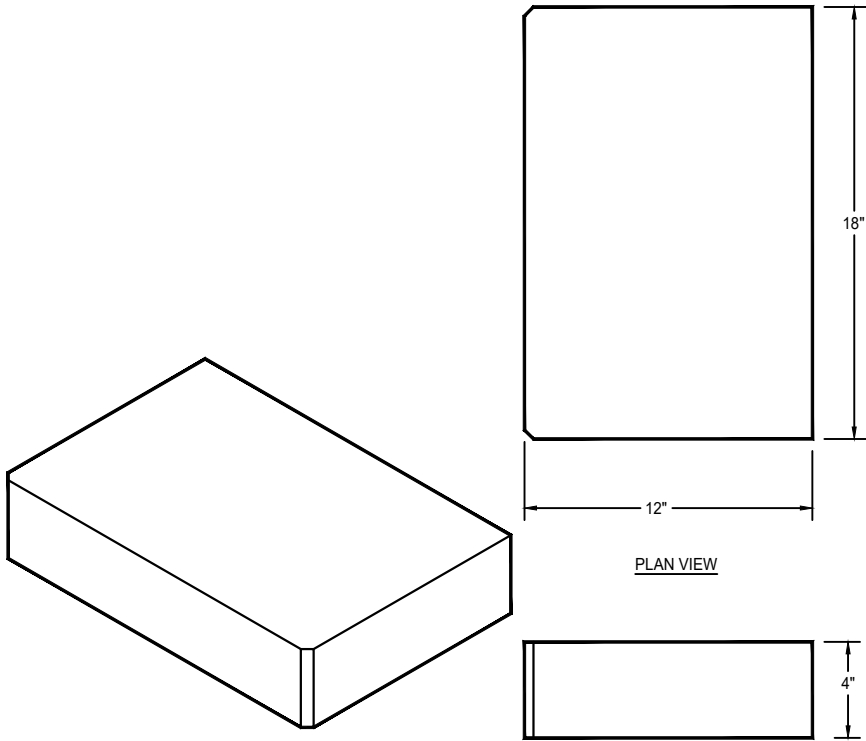


PLAN VIEW

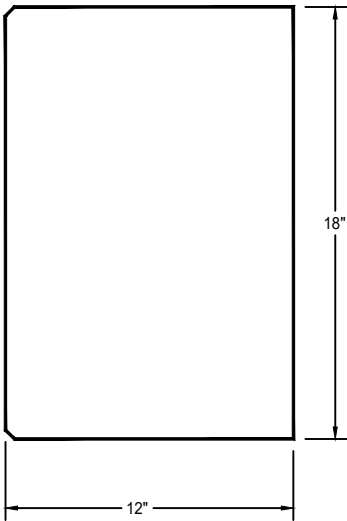


SIDE VIEW

**MESA STANDARD UNIT (STRAIGHT SPLIT FACE)**  
NOT TO SCALE



ISOMETRIC VIEW



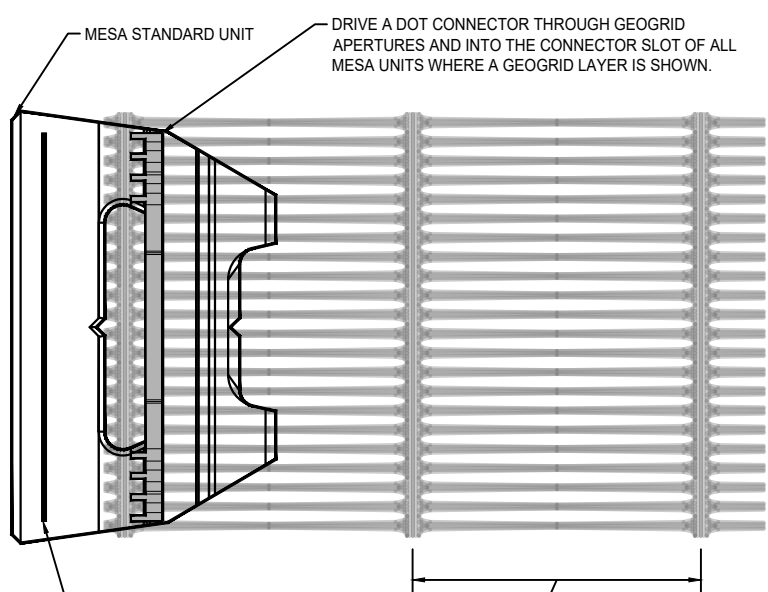
PLAN VIEW



SIDE VIEW

**CAP UNIT**  
NOT TO SCALE

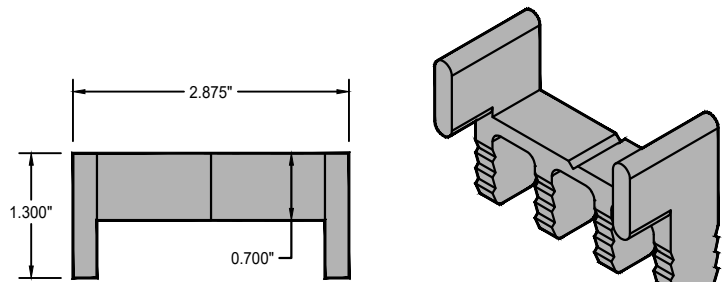
NOTE: DIMENSIONS VARY BASED ON PRODUCT AVAILABILITY



SHIM BETWEEN BLOCK COURSES, AS NECESSARY, TO MAINTAIN PROPER VERTICAL AND HORIZONTAL ALIGNMENT. GEOGRID RIBS AND ASPHALT ROOFING SHINGLES ARE ACCEPTABLE SHIMMING MATERIALS. THE SHIM SHALL COVER THE LENGTH OF THE BLOCK, AND SHALL NOT EXCEED 1/8" IN THICKNESS PER BLOCK COURSE.

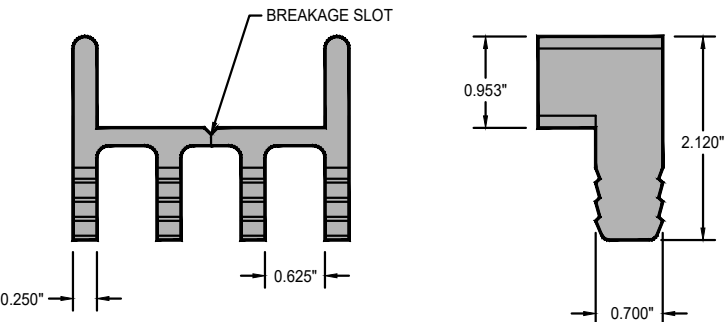
PLAN VIEW

**GEOGRID ORIENTATION (DOT CONNECTOR)**  
NOT TO SCALE



PLAN VIEW

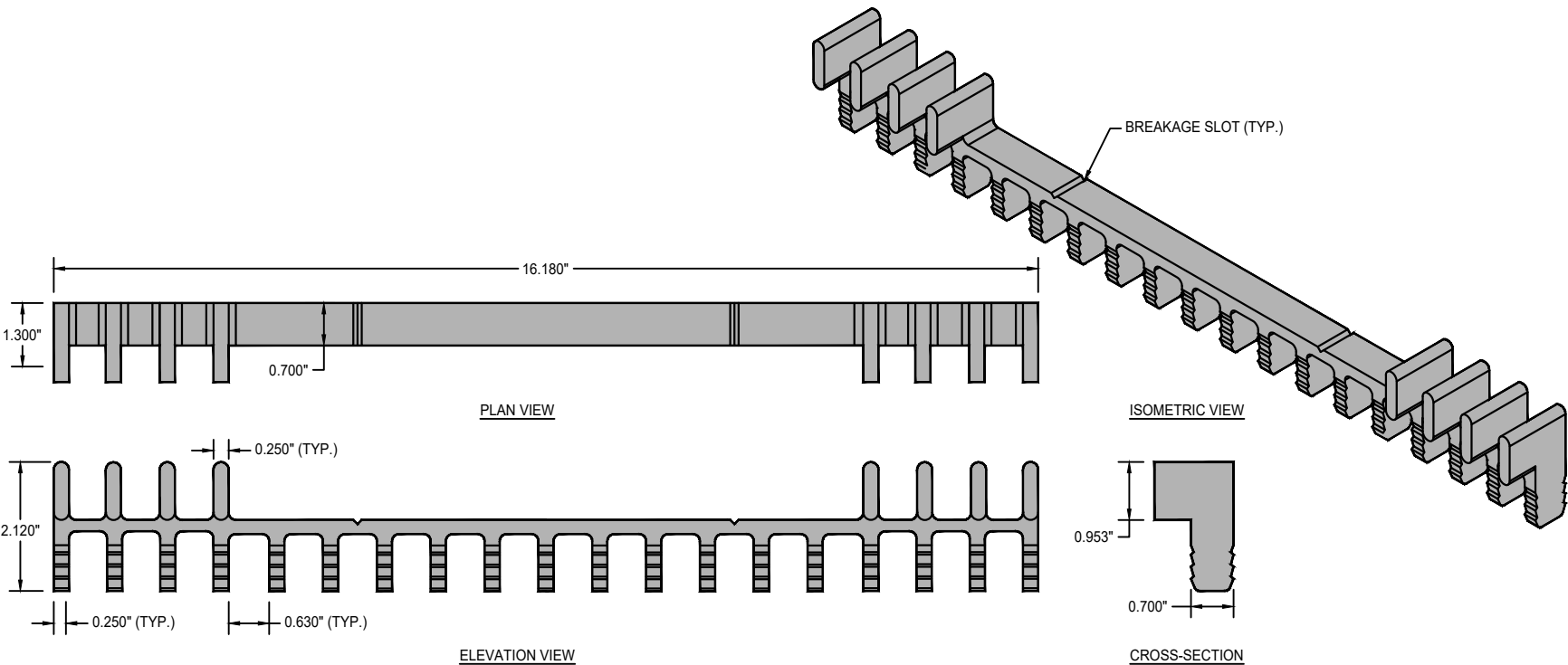
ISOMETRIC VIEW



ELEVATION VIEW

SIDE VIEW

**STANDARD CONNECTOR**  
NOT TO SCALE



ISOMETRIC VIEW

CROSS-SECTION

PLAN VIEW

ELEVATION VIEW

NOTE:  
DOT CONNECTOR CAN BE BROKEN AT BREAKAGE SLOTS TO FACILITATE INSTALLATION.

**MESA DOT CONNECTOR**  
NOT TO SCALE

**Tensar.**

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2500 Northwinds Parkway | Suite 500  
Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

\_\_\_\_\_, \_\_\_\_\_

OWNER \_\_\_\_\_

OWNER PROJECT No. \_\_\_\_

CLIENT \_\_\_\_\_

TIC PROJECT No. \_\_\_\_

DRAWN BY: O. MARTINEZ

DESIGNED BY: \_\_\_\_

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY): \_\_\_\_

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NO. DATE DESCRIPTION BY

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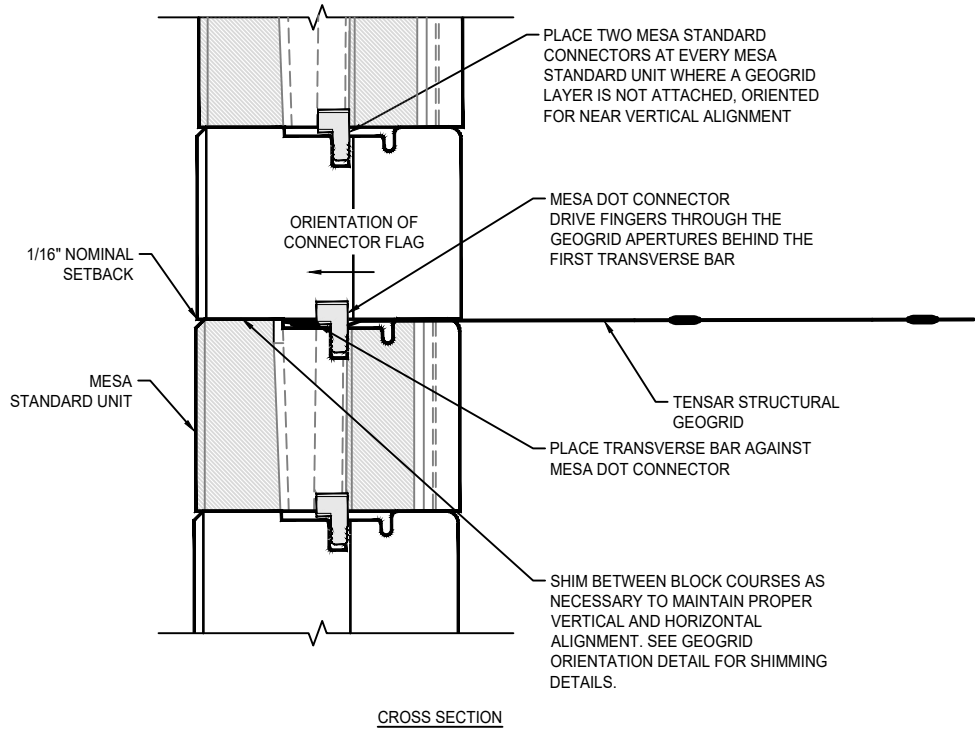
SHEET TITLE

**MESA DOT DETAIL PACKAGE**

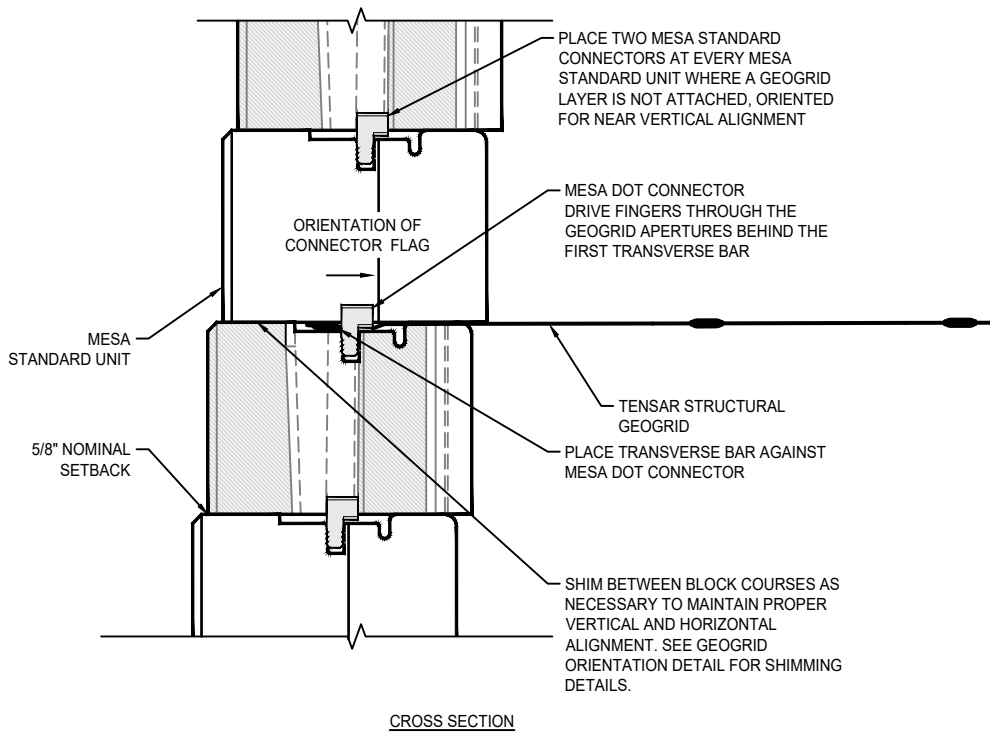
SCALE: AS SHOWN

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Plotted on: June 11, 2020  
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**GEOGRID DOT CONNECTION DETAIL (NEAR-VERTICAL 0.5°)**  
NOT TO SCALE



**GEOGRID DOT CONNECTION DETAIL (BATTERED 4.5°)**  
NOT TO SCALE

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Alpharetta, Georgia 30009 | 770-344-2090

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PROJECT NAME AND LOCATION

**TIC STANDARD DETAILS**

OWNER	-----
OWNER PROJECT No.	----
CLIENT	----- ----- ----- -----
TIC PROJECT No.	----
DRAWN BY:	<u>O. MARTINEZ</u>
DESIGNED BY:	----
CHECKED BY:	<u>R. JOHNSON</u>
ENGINEER OF RECORD (MSE STRUCTURE ONLY):	-----

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SHEET TITLE

**MESA DOT DETAIL PACKAGE**

SCALE: AS SHOWN

SHEET 10 OF ----