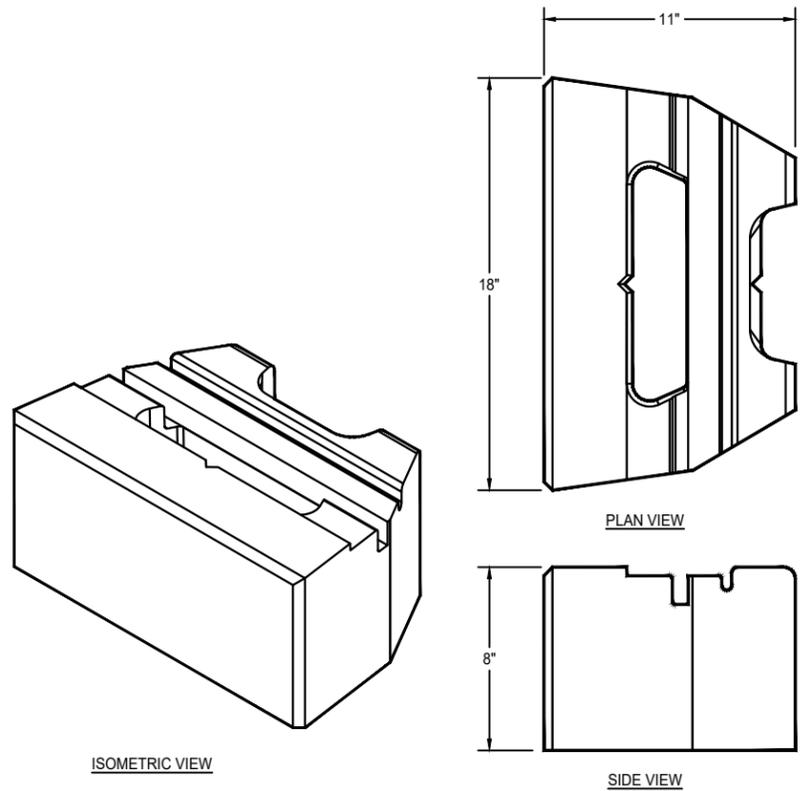


Tensar.

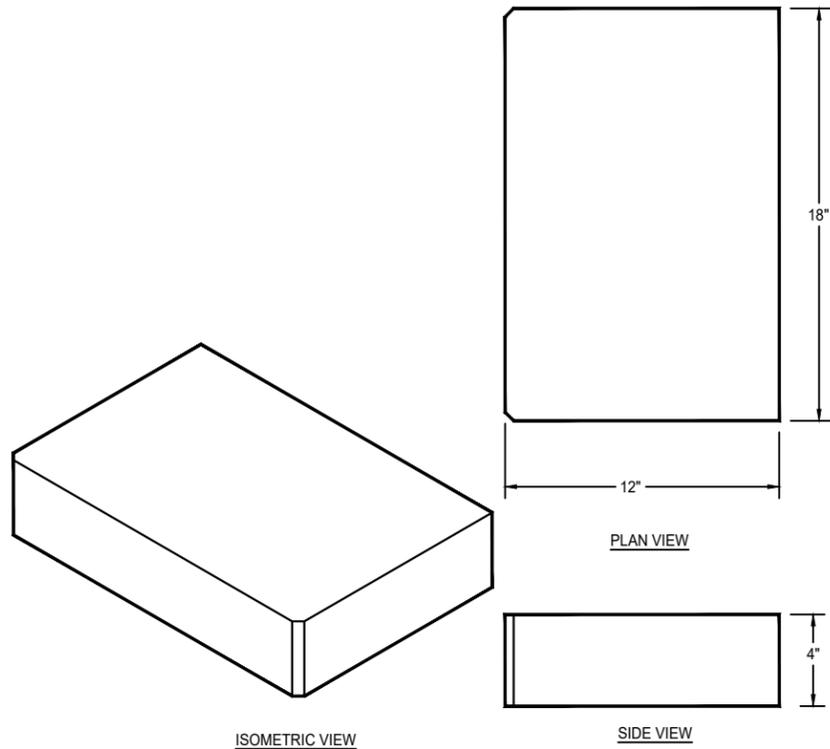
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Alpharetta, Georgia 30009 | 770-344-2090

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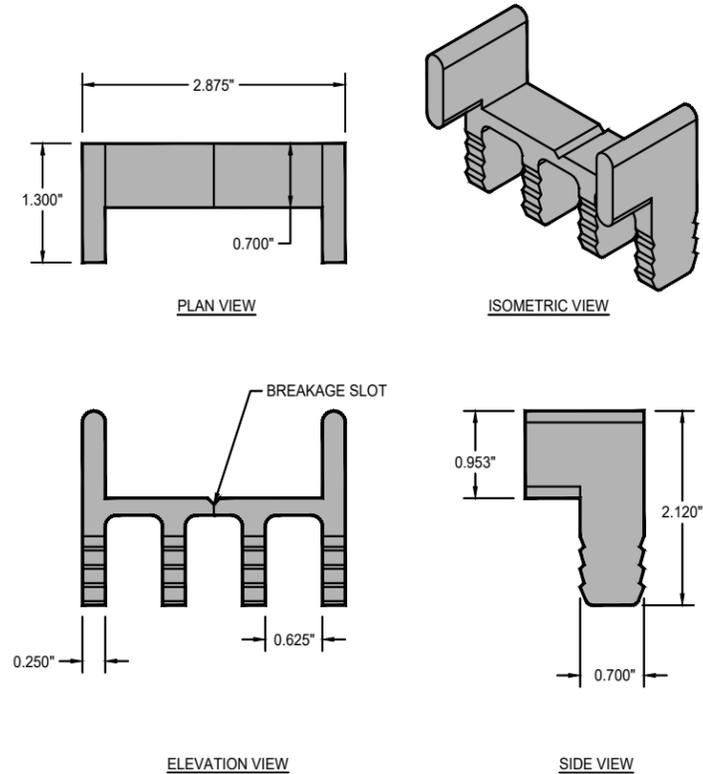


MESA STANDARD UNIT (STRAIGHT SPLIT FACE)
NOT TO SCALE

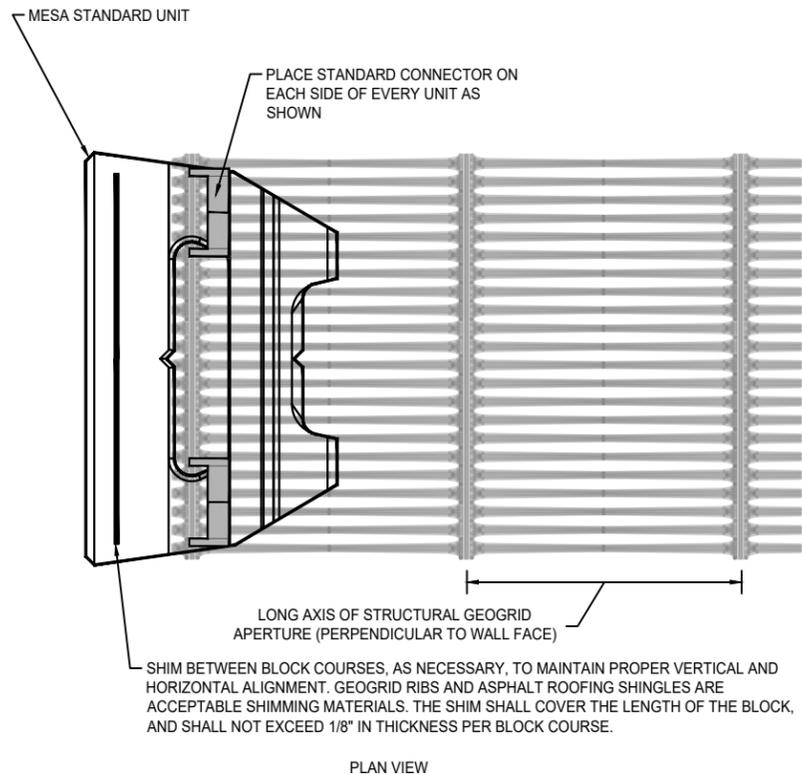


NOTE: DIMENSIONS VARY BASED ON PRODUCT AVAILABILITY

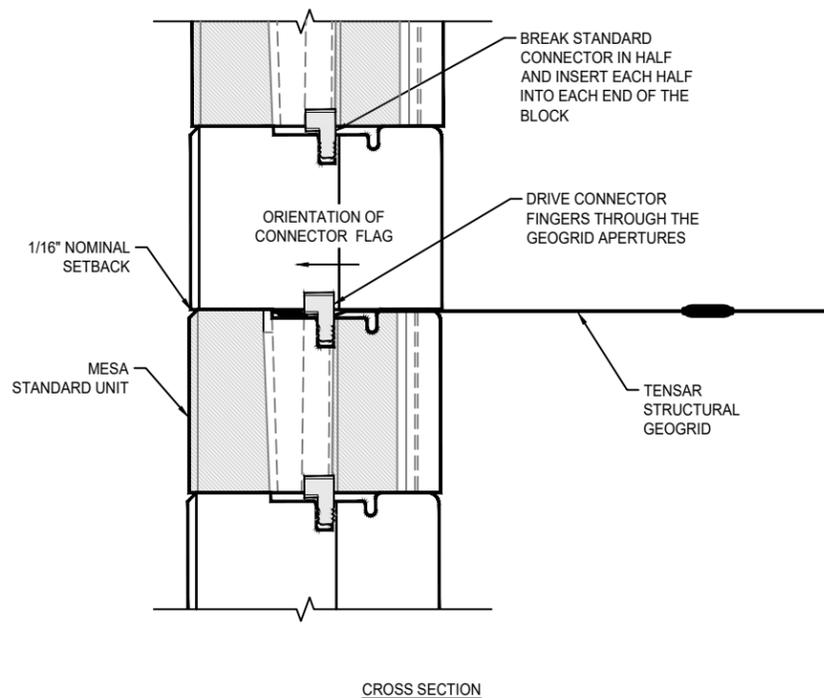
CAP UNIT
NOT TO SCALE



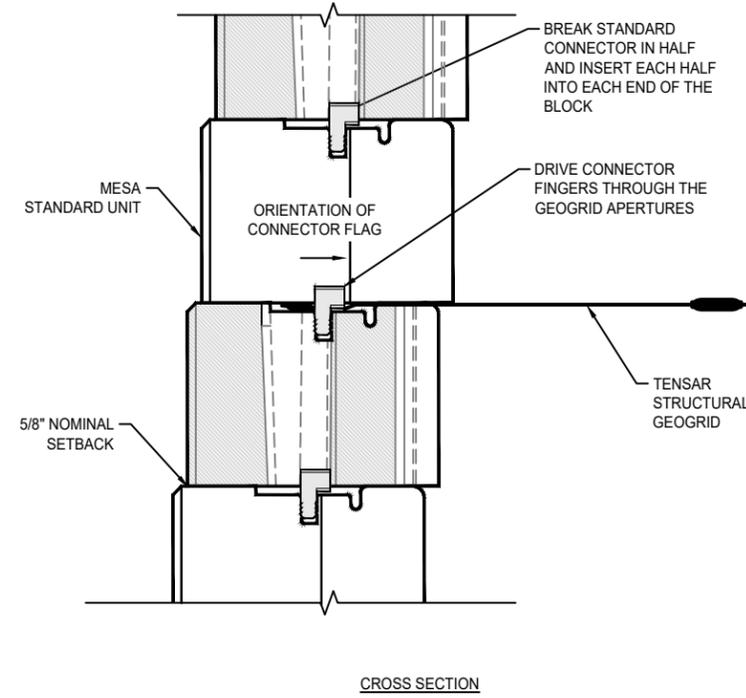
STANDARD CONNECTOR
NOT TO SCALE



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

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): _____

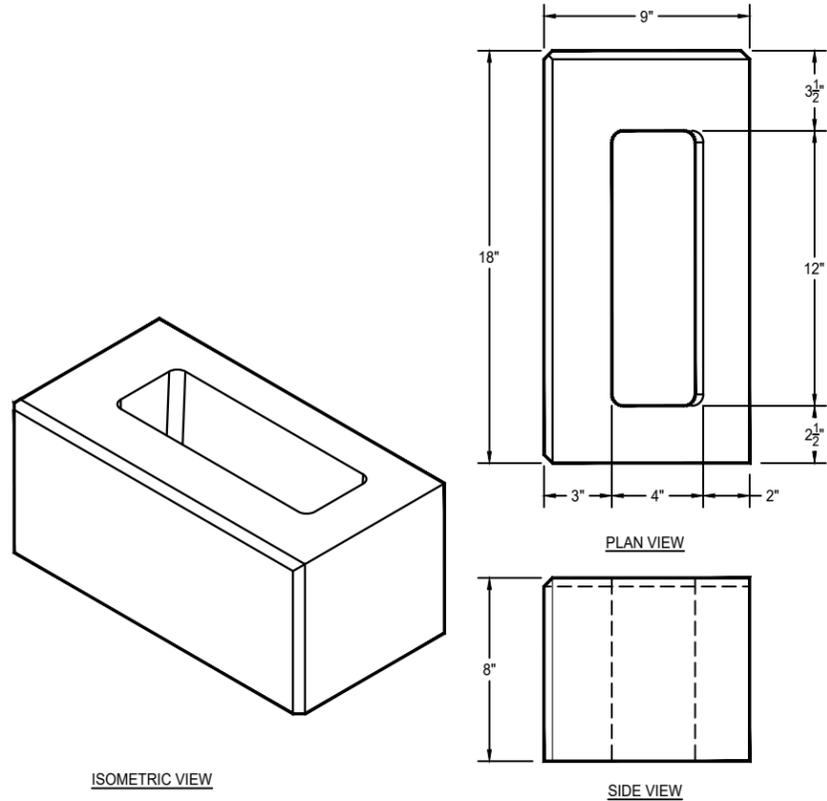
NO.	DATE	DESCRIPTION	BY
0	7/10/18	ISSUED FOR REVIEW	RJ

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**MESA NON-DOT
DETAIL PACKAGE**

SCALE: AS SHOWN

Plotted on: June 11, 2020 K:\CAD\DETAILS\MESA\MESA_HDPE_STANDARD_DETAILS.DWG



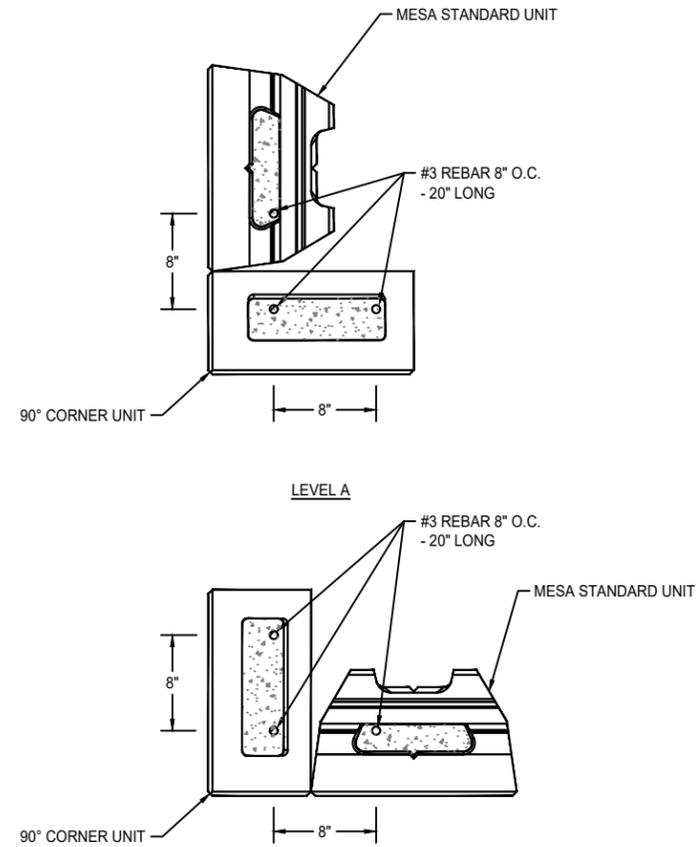
ISOMETRIC VIEW

PLAN VIEW

SIDE VIEW

CORNER UNIT (STRAIGHT SPLIT FACE)

NOT TO SCALE



LEVEL A

LEVEL B

90° CORNER UNIT

MESA CORNER UNIT

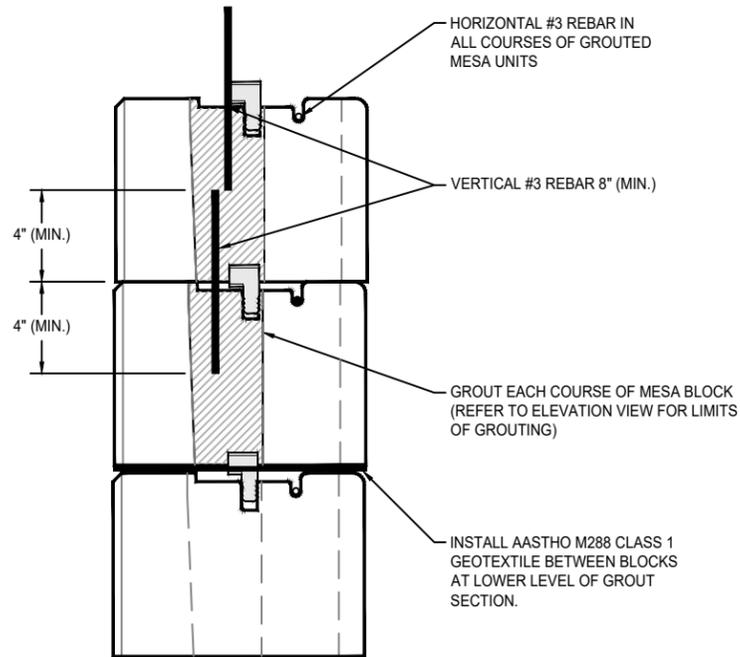
ELEVATION VIEW

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



CROSS SECTION

MESA GROUT DETAIL

NOT TO SCALE

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TIC PROJECT No.	----

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ENGINEER OF RECORD (MSE STRUCTURE ONLY):	----

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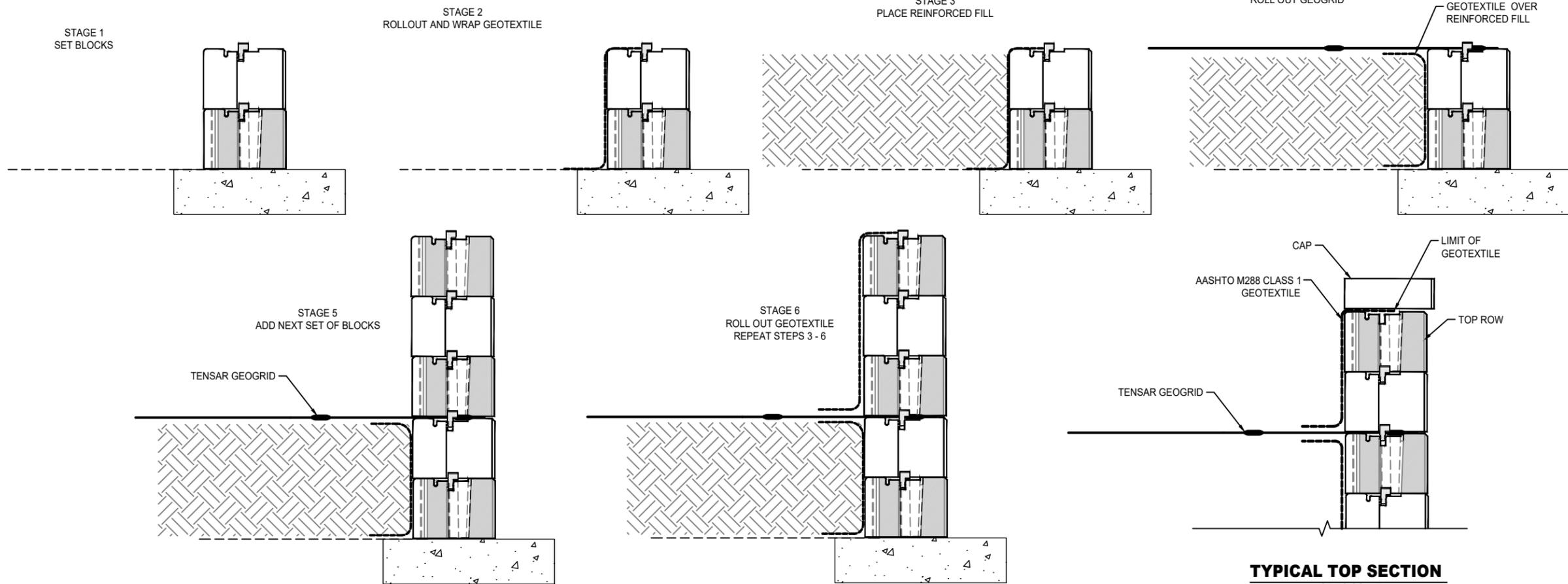
REVISION / ISSUE

SHEET TITLE

MESA HDPE STANDARD DETAILS

SCALE: AS SHOWN

STAGES OF GEOTEXTILE LAYOUT:



FABRIC AND GRAVEL FILL SPECIFICATION

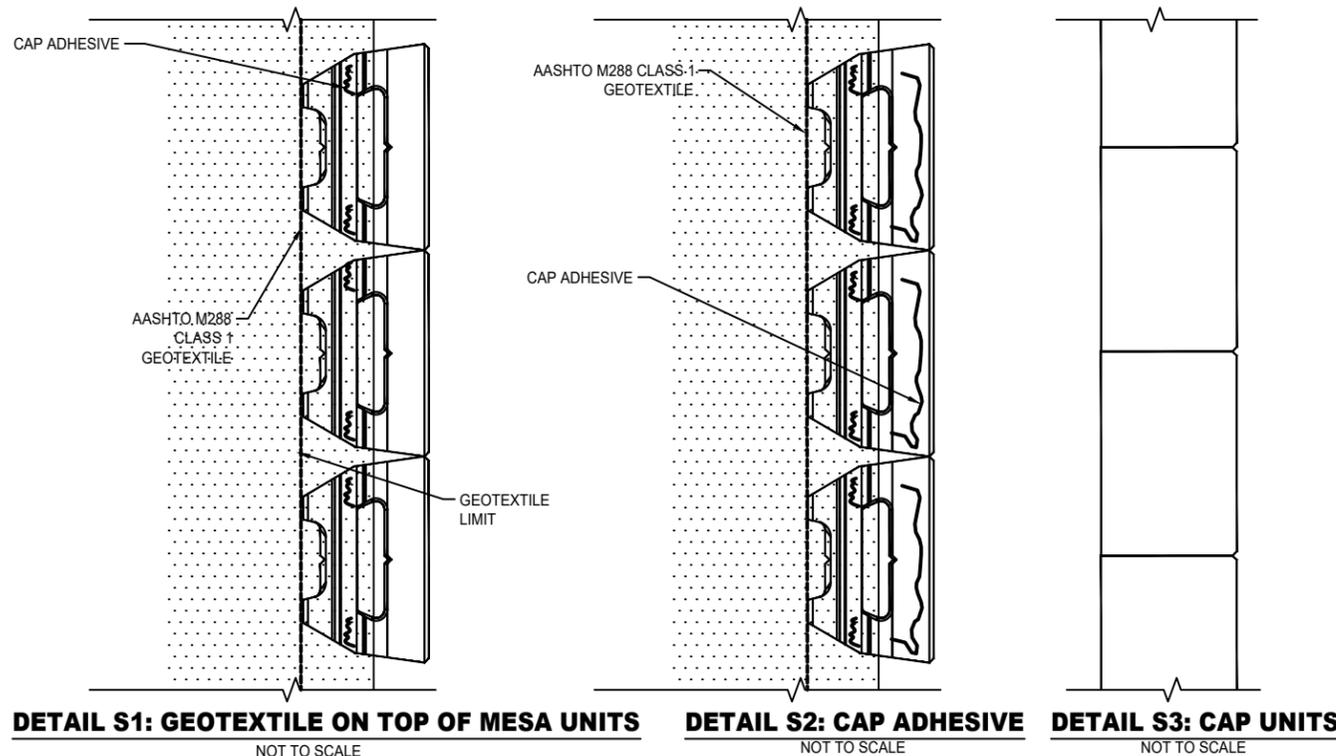
When the select fill used in the reinforced zone for the Project is considered free-draining (less than 5% passing the No. 200 sieve), no geotextile or gravel fill is required behind the Mesa facing units, unless prescribed by the Project Engineer. When the select fill contains fines between 5% and 15%, 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**
 NOT TO SCALE NOT TO SCALE NOT TO SCALE

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CLIENT: _____

TIC PROJECT No. _____

DRAWN BY: O. MARTINEZ

DESIGNED BY: _____

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY): _____

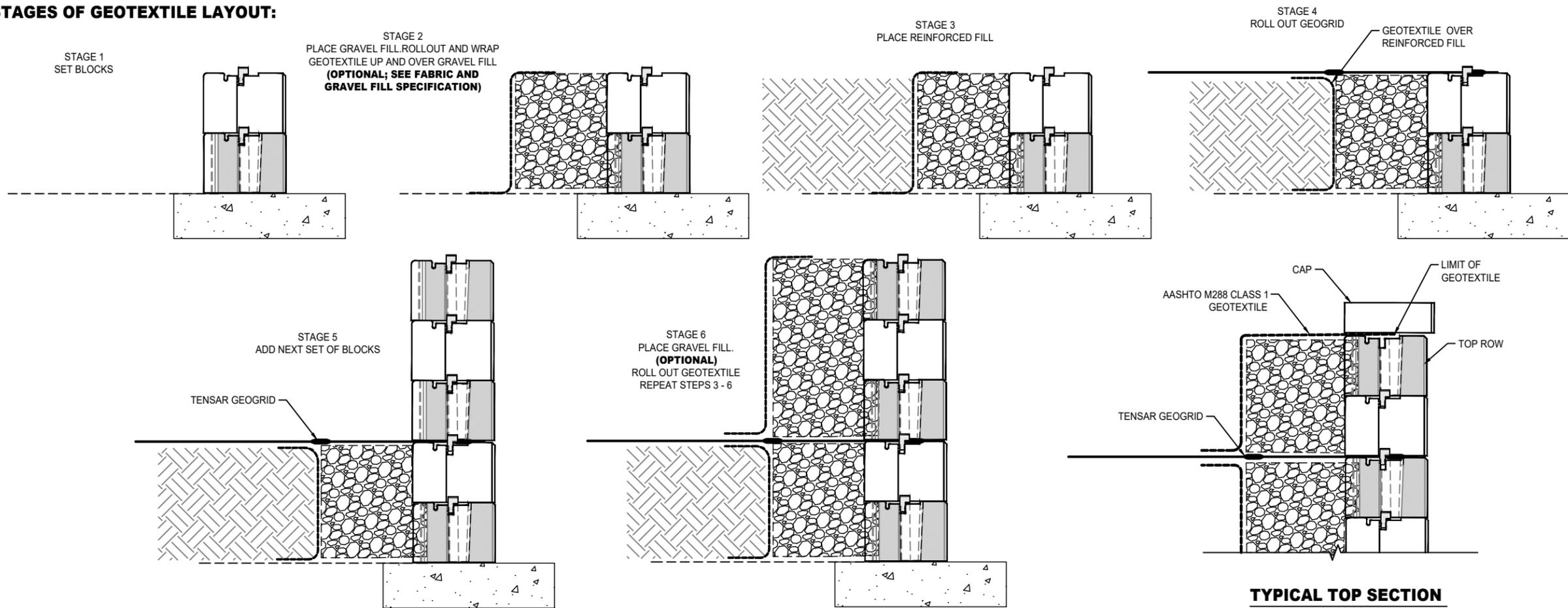
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0	7/10/18	ISSUED FOR REVIEW	RJ
REVISION / ISSUE			

SHEET TITLE

MESA HDPE STANDARD DETAILS

SCALE: AS SHOWN

STAGES OF GEOTEXTILE LAYOUT:



FABRIC AND GRAVEL FILL SPECIFICATION

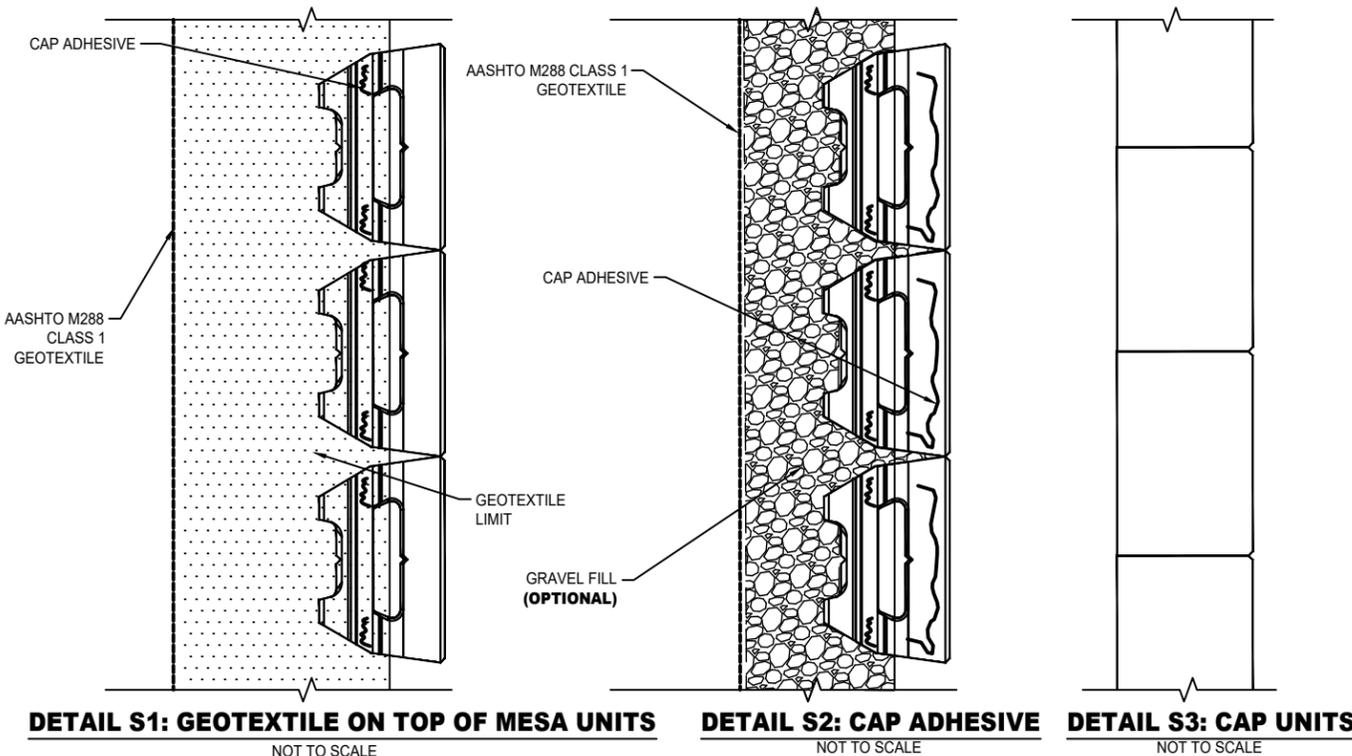
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Geotextile widths required for the detail: AASHTO M288 Class 1: 36 inch



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PROJECT NAME AND LOCATION

TIC STANDARD DETAILS

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TIC PROJECT No.	----

DRAWN BY:	O. MARTINEZ
DESIGNED BY:	----
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ENGINEER OF RECORD (MSE STRUCTURE ONLY):	----

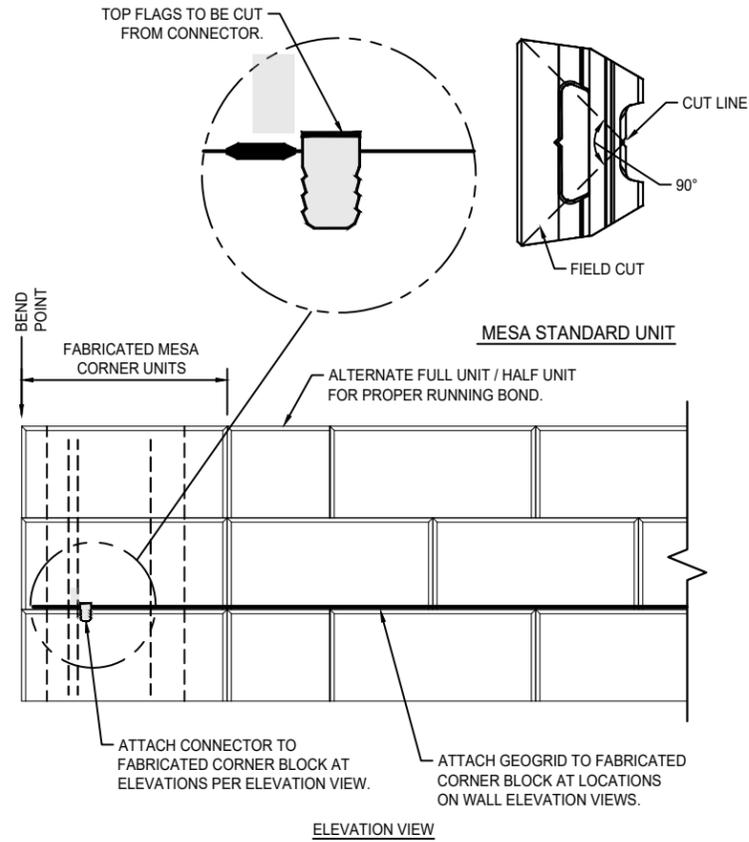
NO.	DATE	ISSUED FOR REVIEW	DESCRIPTION	RJ	BY

SHEET TITLE
MESA HDPE STANDARD DETAILS

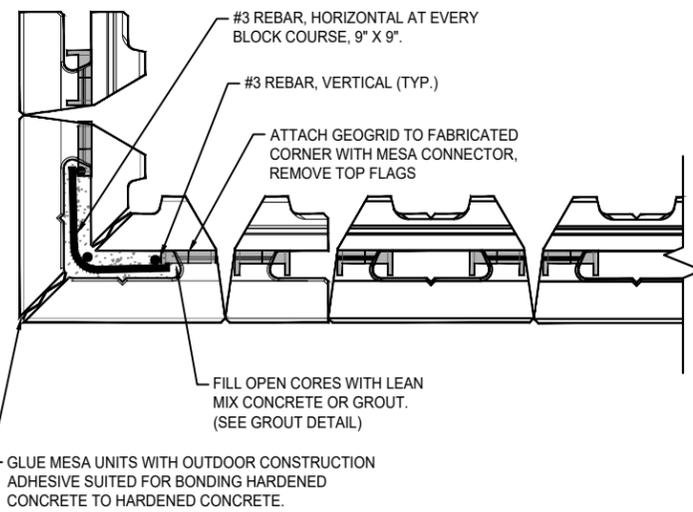
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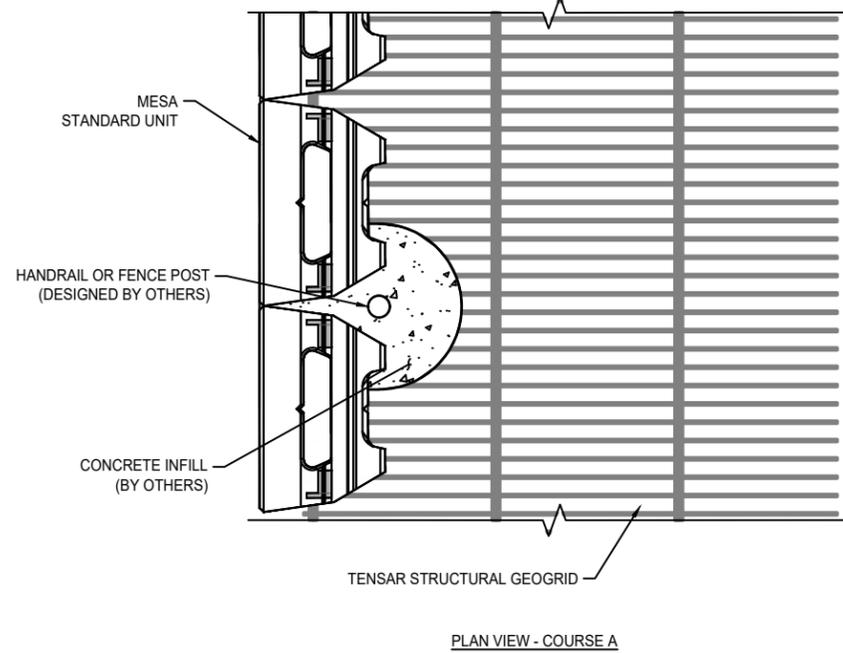


ELEVATION VIEW

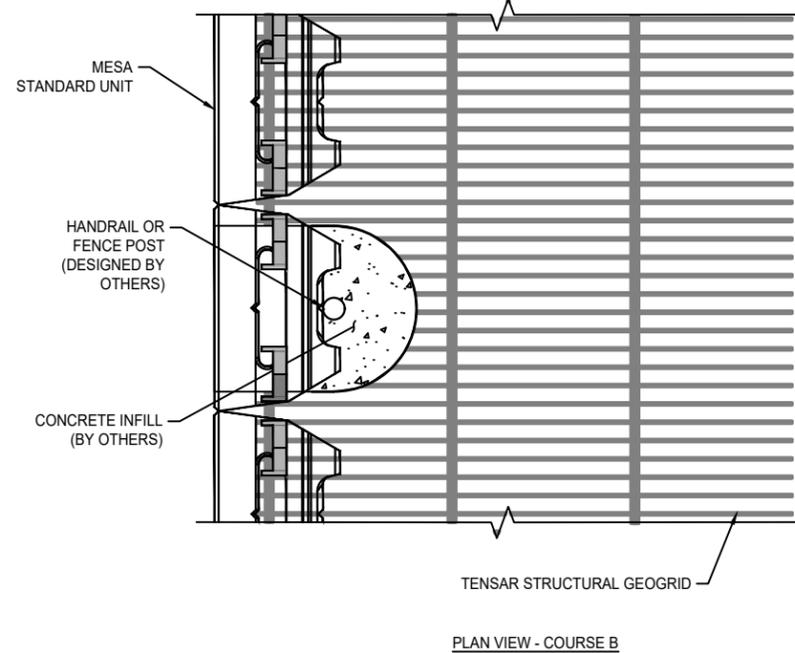


PLAN VIEW

FABRICATED MESA CORNER DETAIL (90°)
NOT TO SCALE



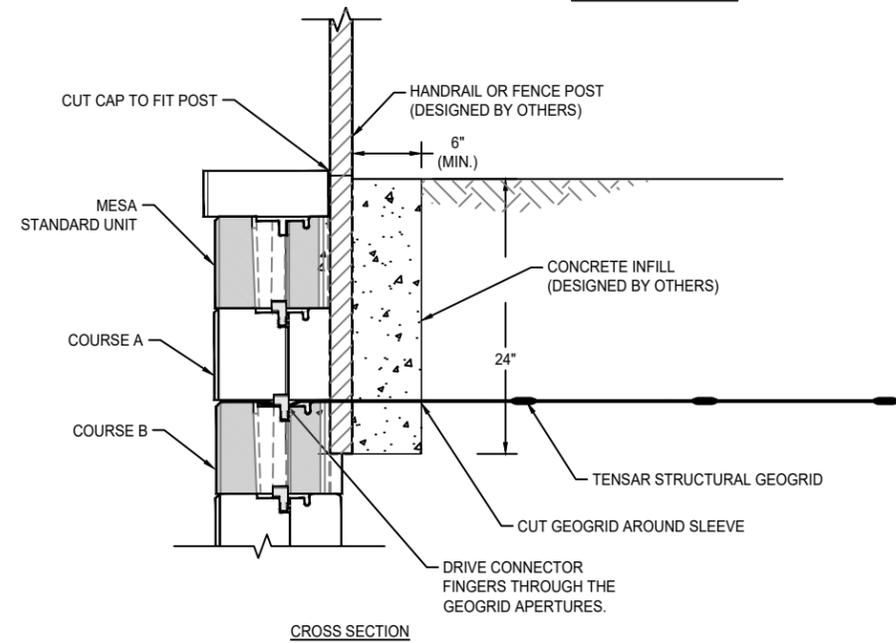
PLAN VIEW - COURSE A



PLAN VIEW - COURSE B

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.



CROSS SECTION

HANDRAIL OR FENCE POST ON TOP OF WALL
NOT TO SCALE

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

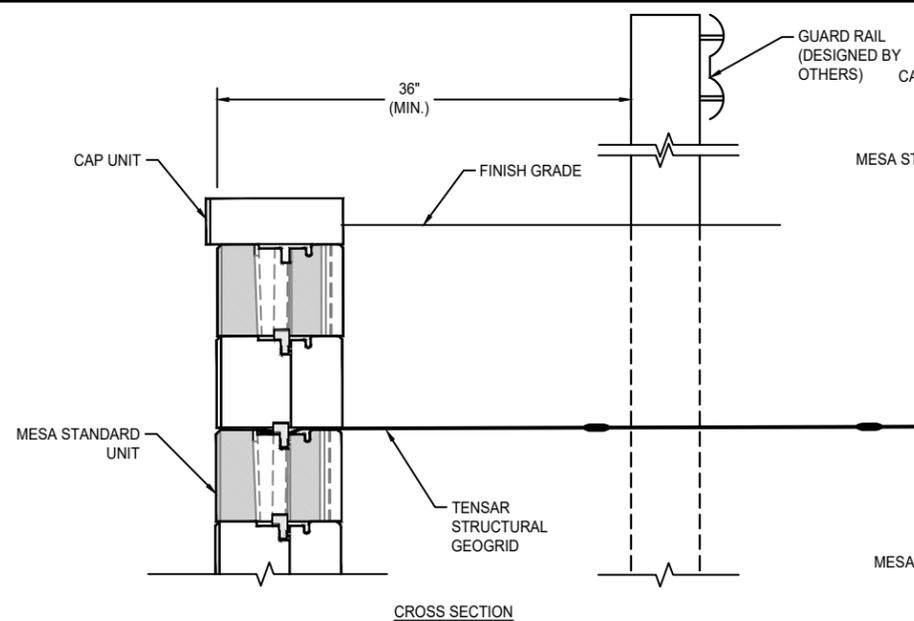
REVISION / ISSUE

SHEET TITLE

MESA HDPE STANDARD DETAILS

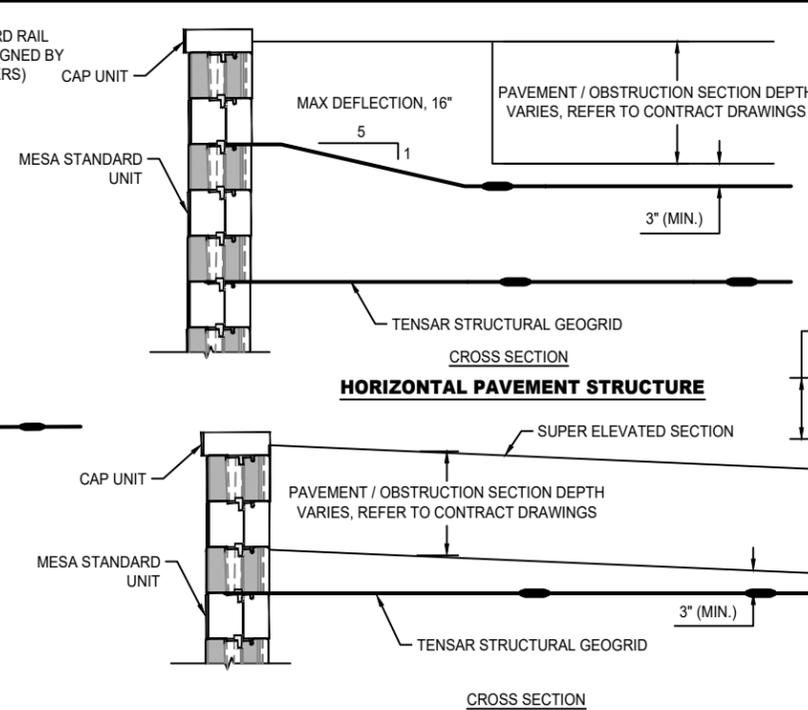
SCALE: AS SHOWN

Plotted on: June 11, 2020
K:\CAD\DETAILS\MESA\MESA HDPE STANDARD DETAILS.DWG



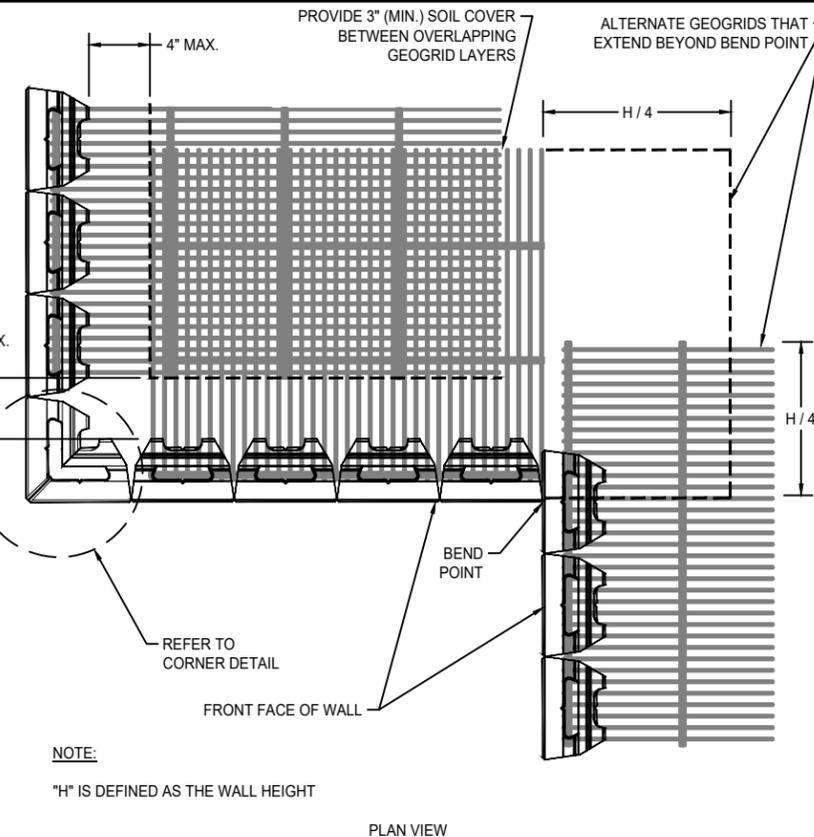
- NOTES:**
1. PLACE AND COMPACT BACKFILL TO FINISH GRADE.
 2. AUGER OR DRIVE POST THROUGH TENSAR GEOGRID, AS REQUIRED, TO SPECIFIED DEPTH.
 3. INSTALL POST AND FILL HOLE WITH 2000 PSI (MIN) CONCRETE, OR IN ACCORDANCE WITH PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

TOP OF WALL SECTION & GUARD RAIL DETAIL
NOT TO SCALE



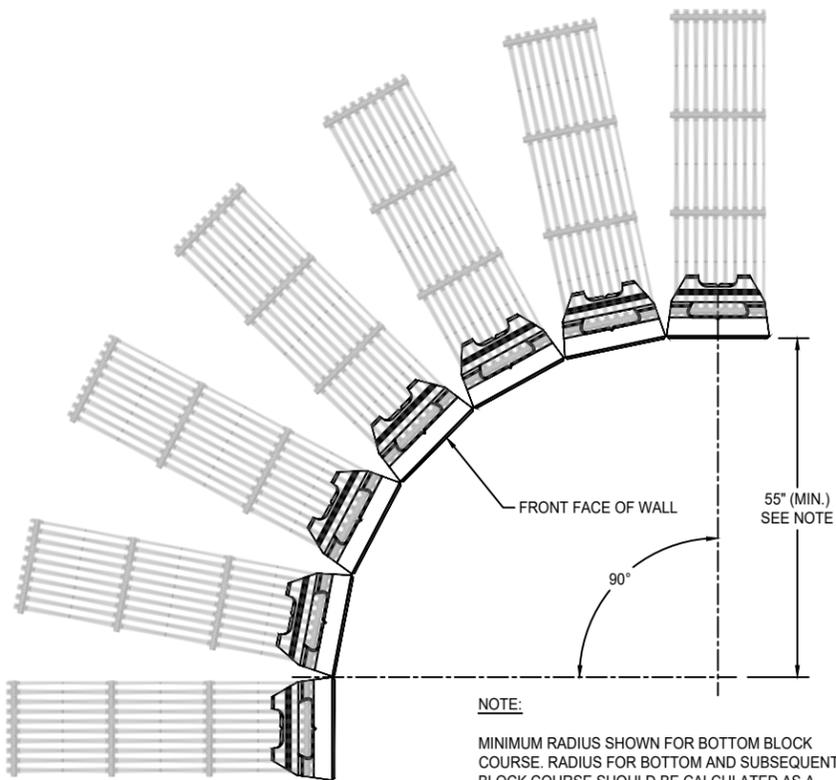
- NOTE:**
CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PLACEMENT OF THE GEOGRID TO AVOID CONFLICT WITH THE CONTRACT PAVEMENT / OBSTRUCTION SECTION. GEOGRID MUST BE SEPARATED FROM THE PAVEMENT / OBSTRUCTION SECTION BY A MINIMUM OF 3".

GEOGRID PLACEMENT AT PAVEMENT / OBSTRUCTION
NOT TO SCALE

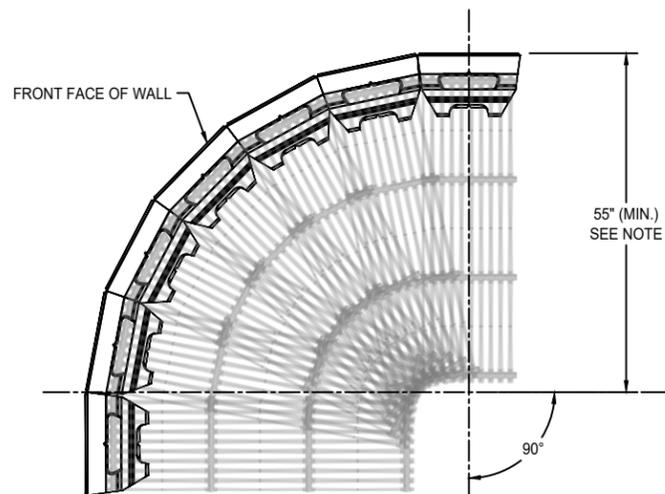


- NOTE:**
"H" IS DEFINED AS THE WALL HEIGHT

MESA WALL ALONG CORNERS DETAIL
NOT TO SCALE

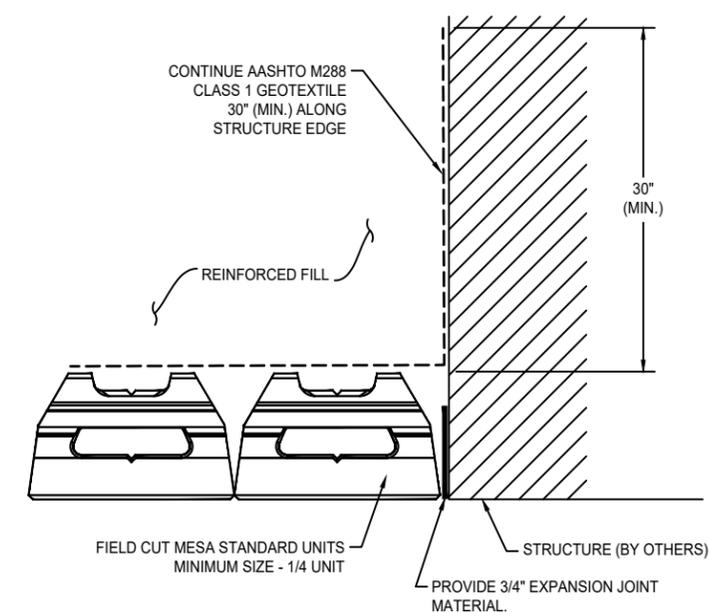


90° INSIDE CURVE DETAIL
NOT TO SCALE



- 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



- 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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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 HDPE STANDARD DETAILS

SCALE: AS SHOWN

SHEET 6 OF

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Alpharetta, Georgia 30009 | 770-344-2090

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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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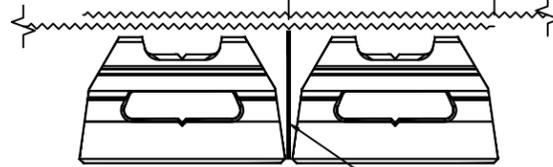
SHEET TITLE

MESA HDPE STANDARD DETAILS

SCALE: AS SHOWN

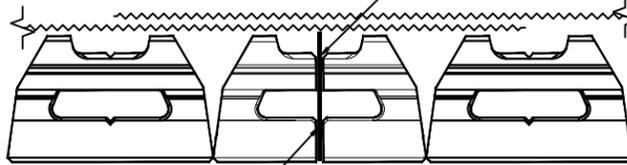
SHEET 7 OF ---

OVERLAP GEOTEXTILE 18" AT SLIP JOINT LOCATIONS GEOTEXTILE SHOULD BE A MINIMUM OF 36" LONG



SECTION (A-A)

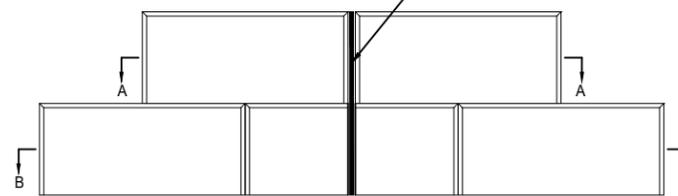
1/8" (MIN.) PVC OR HDPE SHEET OR 1/2" BLACK INSULATION BOARD PLACED BETWEEN UNITS



SECTION (B-B)

MESA RADIUS UNIT SHALL BE FIELD CUT AT THE SLIP JOINT LOCATION.

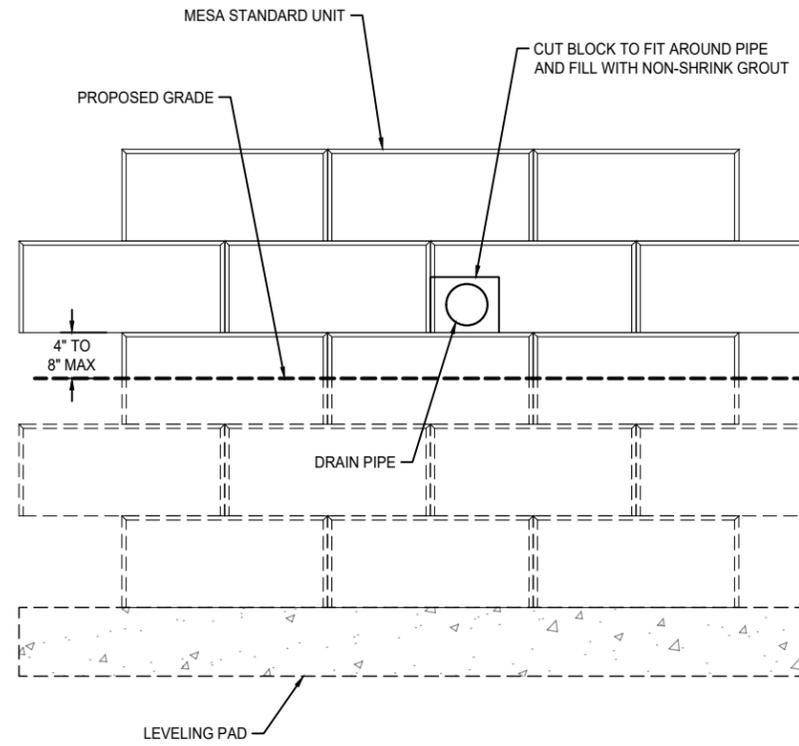
SLIP JOINT



ELEVATION VIEW

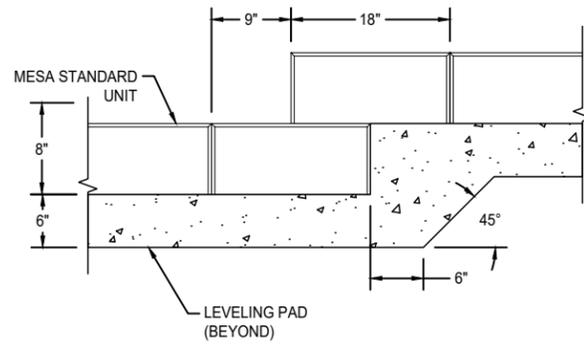
SLIP JOINT DETAIL

NOT TO SCALE

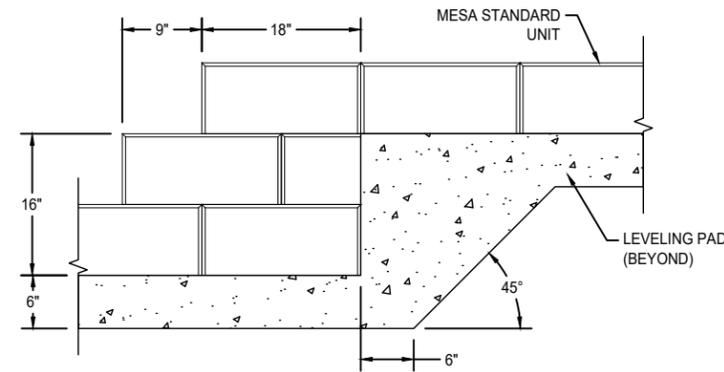


DRAIN PIPE OUTLET DETAIL

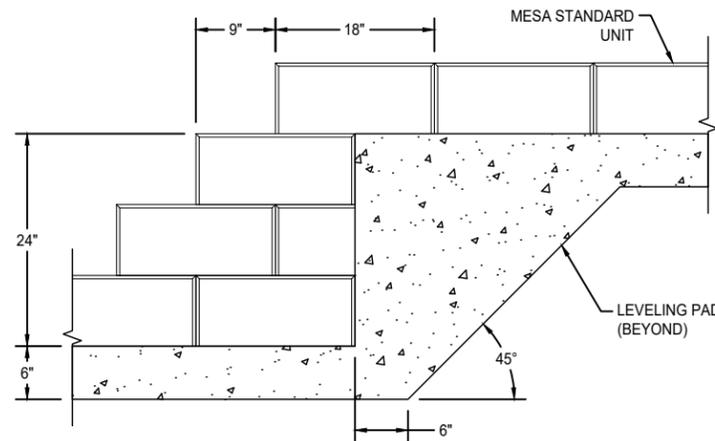
NOT TO SCALE



CASE 1: ONE BLOCK STEP (ELEVATION)



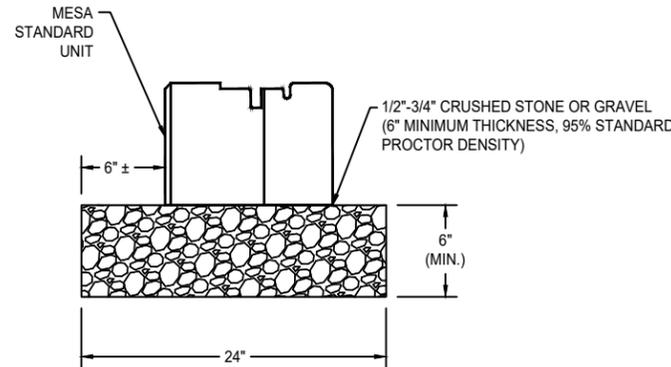
CASE 2: TWO BLOCK STEP (ELEVATION)



CASE 3: THREE BLOCK STEP (ELEVATION)

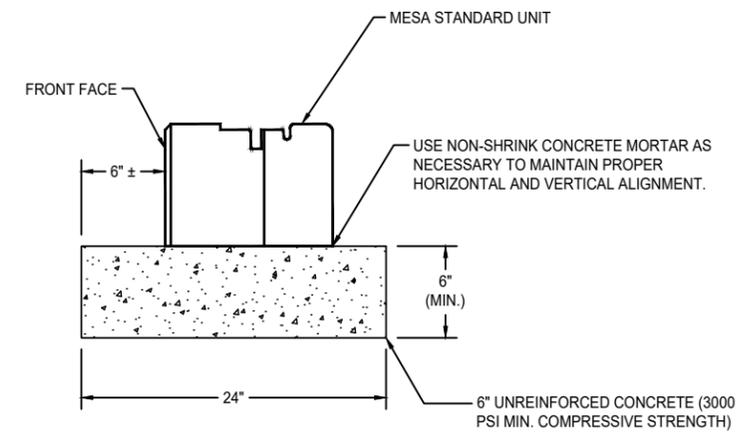
1, 2 & 3 BLOCK STEP DETAIL

NOT TO SCALE



GRAVEL LEVELING PAD DETAIL

NOT TO SCALE



CONCRETE LEVELING PAD DETAIL

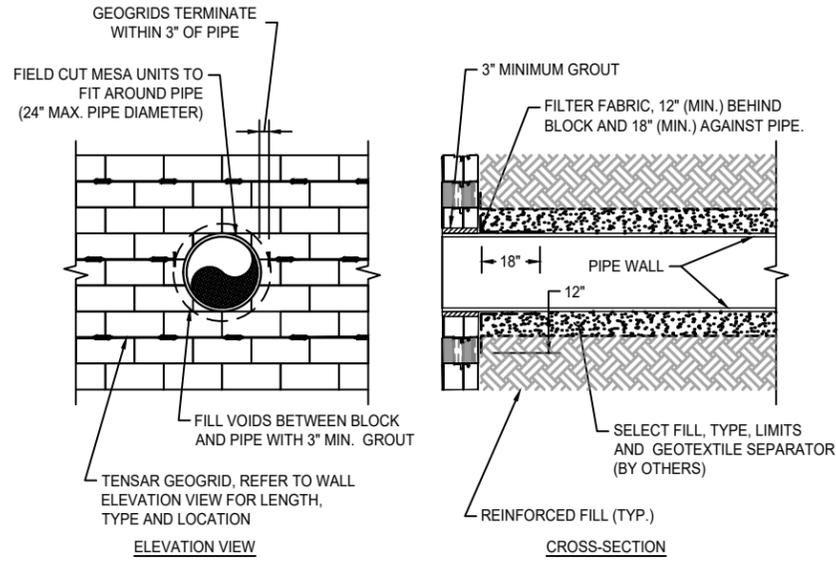
NOT TO SCALE

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Alpharetta, Georgia 30009 | 770-344-2090

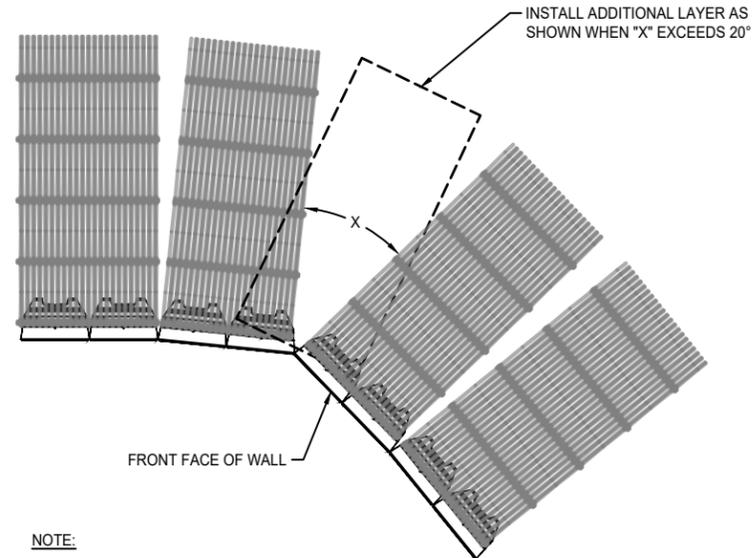
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PIPE PENETRATION DETAIL

NOT TO SCALE



NOTE:

MULTIPLE BENDS IN WALL ALIGNMENT MAY BE NECESSARY TO ACHIEVE LARGE RADIUS CURVES.

GEOGRID AT WALL BEND

NOT TO SCALE

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

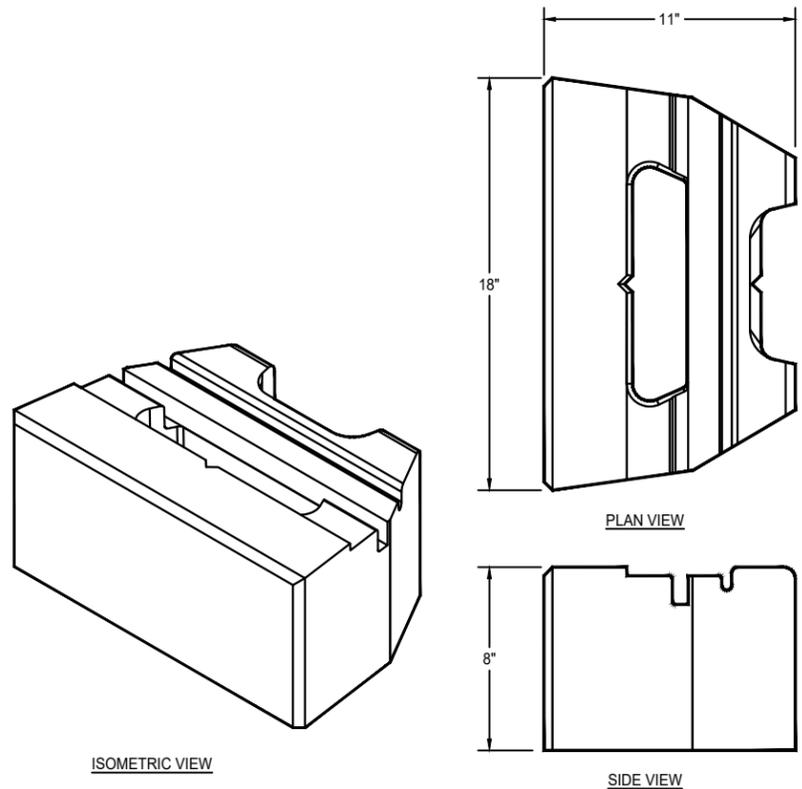
ENGINEER OF RECORD (MSE STRUCTURE ONLY): ----

NO.	DATE	DESCRIPTION	BY
0	7/10/18	ISSUED FOR REVIEW	RJ
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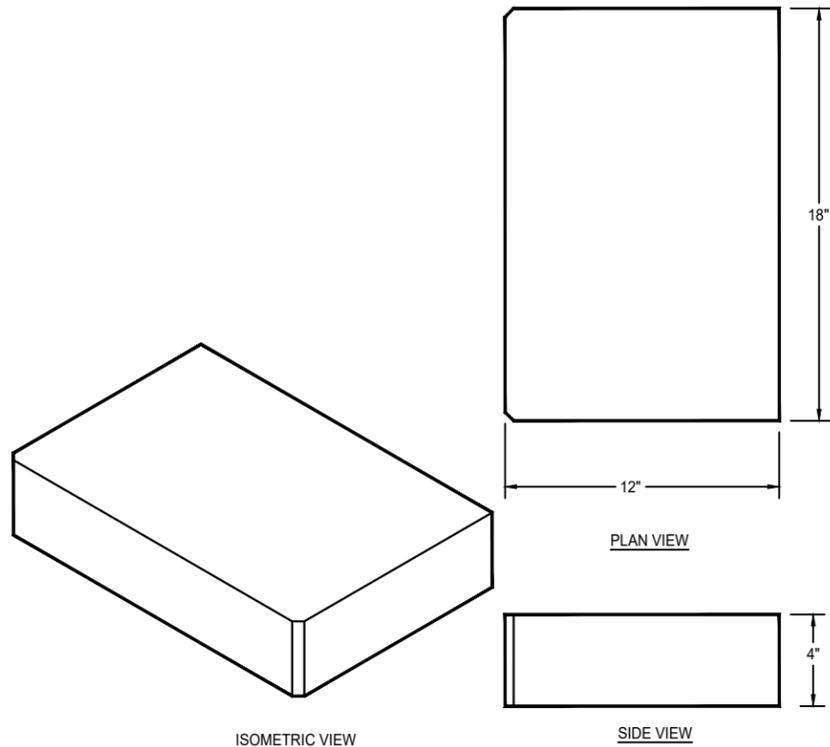
SHEET TITLE

MESA HDPE STANDARD DETAILS

SCALE: AS SHOWN

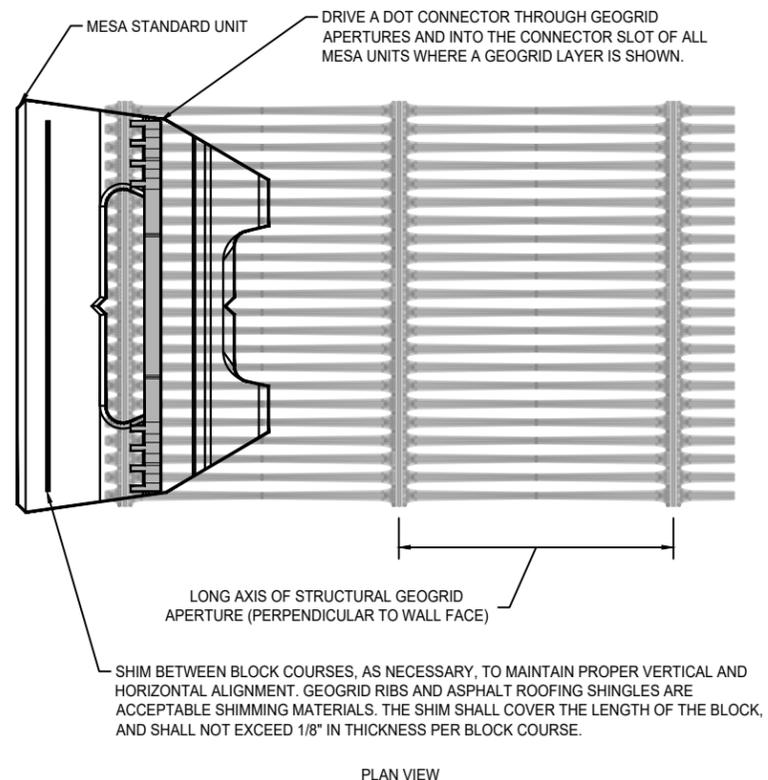


MESA STANDARD UNIT (STRAIGHT SPLIT FACE)
NOT TO SCALE

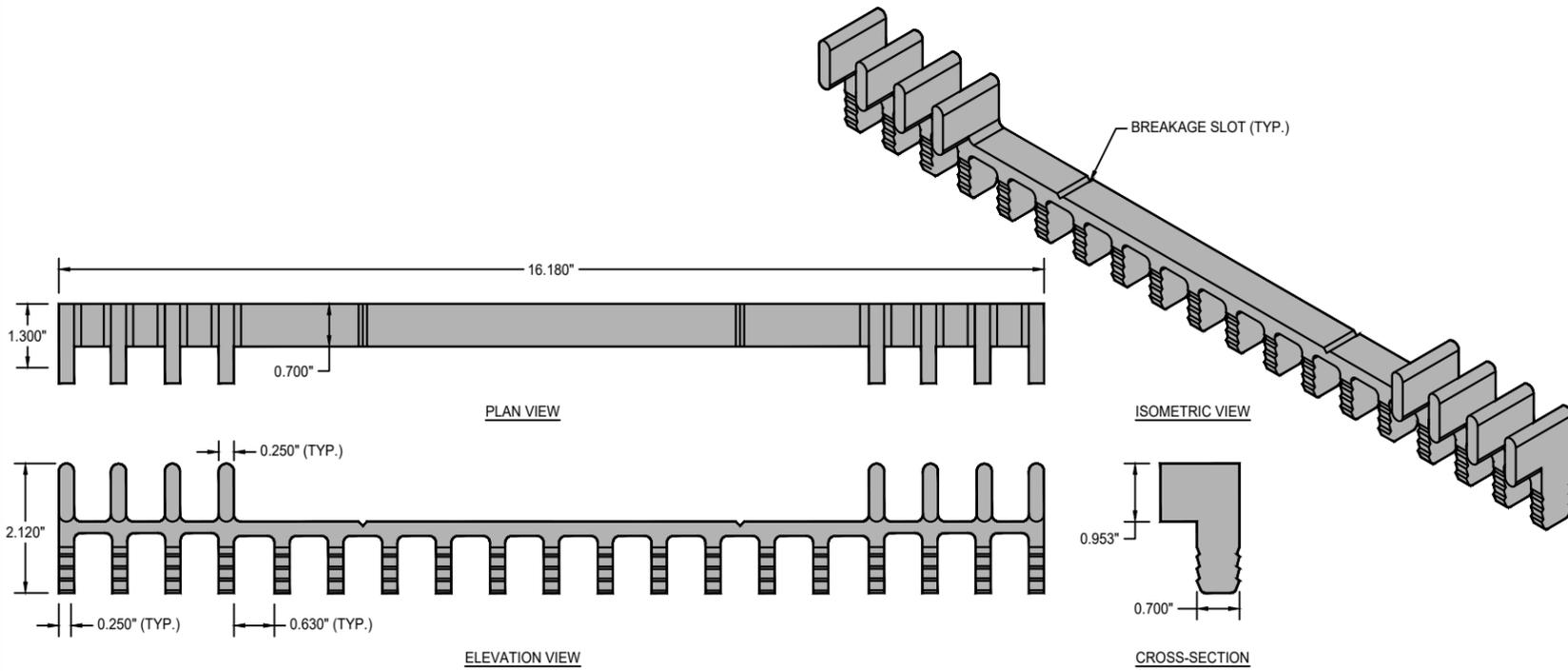


CAP UNIT
NOT TO SCALE

NOTE: DIMENSIONS VARY BASED ON PRODUCT AVAILABILITY

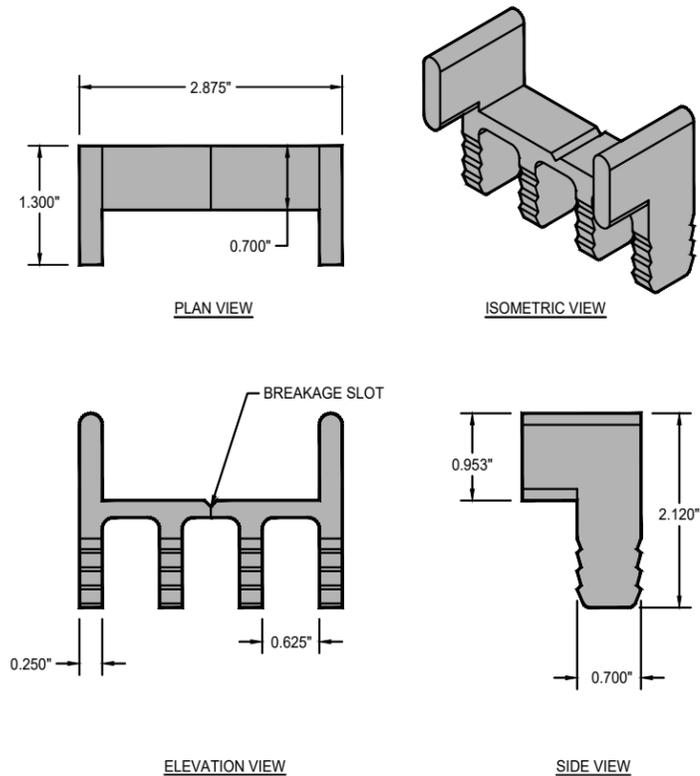


GEOGRID ORIENTATION (DOT CONNECTOR)
NOT TO SCALE



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

MESA DOT CONNECTOR
NOT TO SCALE



STANDARD CONNECTOR
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

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CLIENT: _____

TIC PROJECT No.: _____

DRAWN BY: O. MARTINEZ

DESIGNED BY: _____

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY): _____

NO.	DATE	DESCRIPTION	BY
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MESA DOT DETAIL PACKAGE

SCALE: AS SHOWN

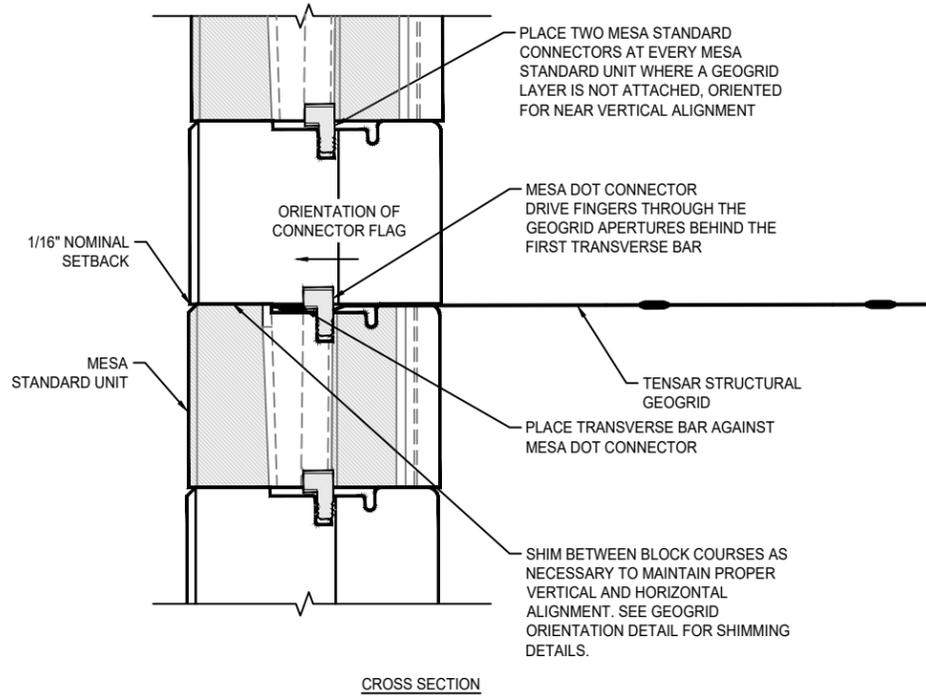
Plotted on: June 11, 2020 K:\CAD\DETAILS\MESA\MESA HDPE STANDARD DETAILS.DWG

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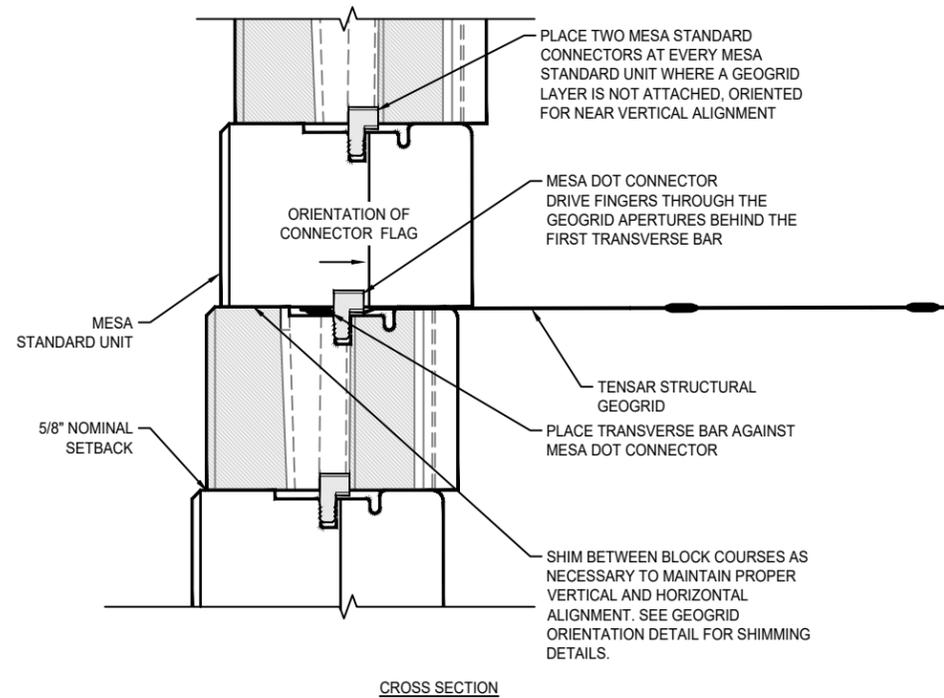
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CROSS SECTION

GEOGRID DOT CONNECTION DETAIL (NEAR-VERTICAL 0.5°)

NOT TO SCALE



CROSS SECTION

GEOGRID DOT CONNECTION DETAIL (BATTERED 4.5°)

NOT TO SCALE

PROJECT NAME AND LOCATION

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-----, -----

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CLIENT: -----

TIC PROJECT No. -----

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DESIGNED BY: -----

CHECKED BY: R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY): -----

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SHEET TITLE

MESA DOT DETAIL PACKAGE

SCALE: AS SHOWN