

ADOT Specific Requirements for Tensor's MESA MSE Modular Block Wall System

ADOT Vendor	Tensor International Corporation, 5883 Glenridge Dr, #200, Atlanta, GA 30328
General Information	ADOT Pride #: 09112 Approval Date: 12/15/2009 Re-evaluaton due: 8/31/2020
Design Standards	More stringent of the following: <ol style="list-style-type: none"> 1. 2008 ADOT Standard Specifications for Road and Bridge Construction. 2. Latest ADOT MSE Wall LRFD Based Special Provisions. [Contact ADOT for latest version at the time of the application of the system to a given project.] 3. FHWA (2009), "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes; Publication No. FHWA-NHI-09-083; Authors: Berg, R. R., Christopher, B. R., and Samtani, N. C. 4. AASHTO (2007 with Latest Interims) LRFD Bridge Design Specifications.
HITEC Evaluation	Highway Innovative Technology Evaluation Center (HITEC) evaluation was completed in 2000. Civil Engineering Research Foundation (CERF) Report No. 40358. Report available on file.
Blocks Evaluated	<ul style="list-style-type: none"> • MESA Blocks (see Figure 1)
Geogrid Connector	<ul style="list-style-type: none"> • 19 teeth per 21 openings "DOT" connector which relies on positive mechanical interlock. See Figures 2 to 4.
Geogrids Evaluated	<ul style="list-style-type: none"> • Tensor "UX" Series: UX1100MSE, UX1400MSE, UX1500MSE, UX1600MSE, UX1700MSE
Block Geogrid Connection Strength	<ul style="list-style-type: none"> • See Table 1
Notes/Constraints	<p>In addition to the general design requirements provided in the Design Standards listed above, the following specific requirements apply:</p> <ul style="list-style-type: none"> • For any project, use of the system evaluated herein is subject to ADOT approval based on project- and site-specific evaluation. • Only the system components evaluated as noted above are to be used. Details in the HITEC report are considered to be superseded by the figures, tables and typical details in this evaluation. Tolerances shall be the more stringent of those noted in Tensor's attached drawings and the Design Standards listed above. • The longitudinal and transverse ribs of the geogrid shall be perpendicular to one another. The maximum deviation of the cross-rib (bow) from being perpendicular to the longitudinal rib, i.e., skew, shall be manufactured to be no more than 1 inch in 5 feet of geogrid width. The maximum deviation of the cross-rib at any point from a line perpendicular to the longitudinal ribs located at the cross-rib (bow) shall be 0.5 inches. • The gap between the connector tabs and the bearing surface of the geogrid reinforcement cross-rib shall not exceed 0.5 inches. A maximum of 10% of connector tables may have a gap between 0.3 inches and 0.5 inches. Gaps in the remaining connector tabs shall not exceed 0.3 inches.

ADOT Specific Requirements for Tensar's MESA MSE Modular Block Wall System

Assumptions

- The long-term nominal connection strength, T_{alc} , in Tables 1 shall be multiplied by the resistance factor for connection strength as specified in the latest AASHTO specification (Design Standard 4 listed above) to obtain the long-term factored connection strength.
 - Reinforcement pullout shall be calculated based on the default values for geogrids provided in the latest AASHTO specification (Design Standard 4 listed above).
 - Soil reinforcement length shall be measured from back of the facing block.
 - Block core infill is not required for structural or connection strength as the connection strength in Table 1 was developed with a voided core. However, erection with a voided core requires greater care by the erection contractor as the facing blocks are more prone to horizontal movement during construction. Core fill, if used, should be free-draining and in accordance with the requirements listed in the latest ADOT MSE Wall LRFD based Special Provisions (Design Standard 2 listed above).
 - All details for penetration of culverts or other objects through the wall face shall be evaluated on a project- and site-specific basis.
 - All details for penetration of vertical and horizontal obstructions through the reinforced soil zone shall be evaluated on a project- and site-specific basis. Examples of these obstructions include foundation elements, catch basins, slotted drains, etc.
 - Drainage details shall be modified as appropriate to meet project- and site-specific requirements.
-
- Vendor submittals shall be in accordance with the design standards and other requirements listed herein.
 - ADOT and its design representatives will evaluate the project- and site-specific application of Tensar's MESA system and review submittals for approval consideration in strict accordance with the design standards, limitations, and requirements listed herein. Typical details in this package may not be applicable to a given project and will be modified, based on site-specific considerations, as necessary by the designer in consultation with the vendor.
 - During construction of the Tensar's MESA system, ADOT and its representatives will enforce project- and site-specific acceptance requirements in accordance with the plans and specifications.

ADOT Specific Requirements for Tensor's MESA MSE Modular Block Wall System

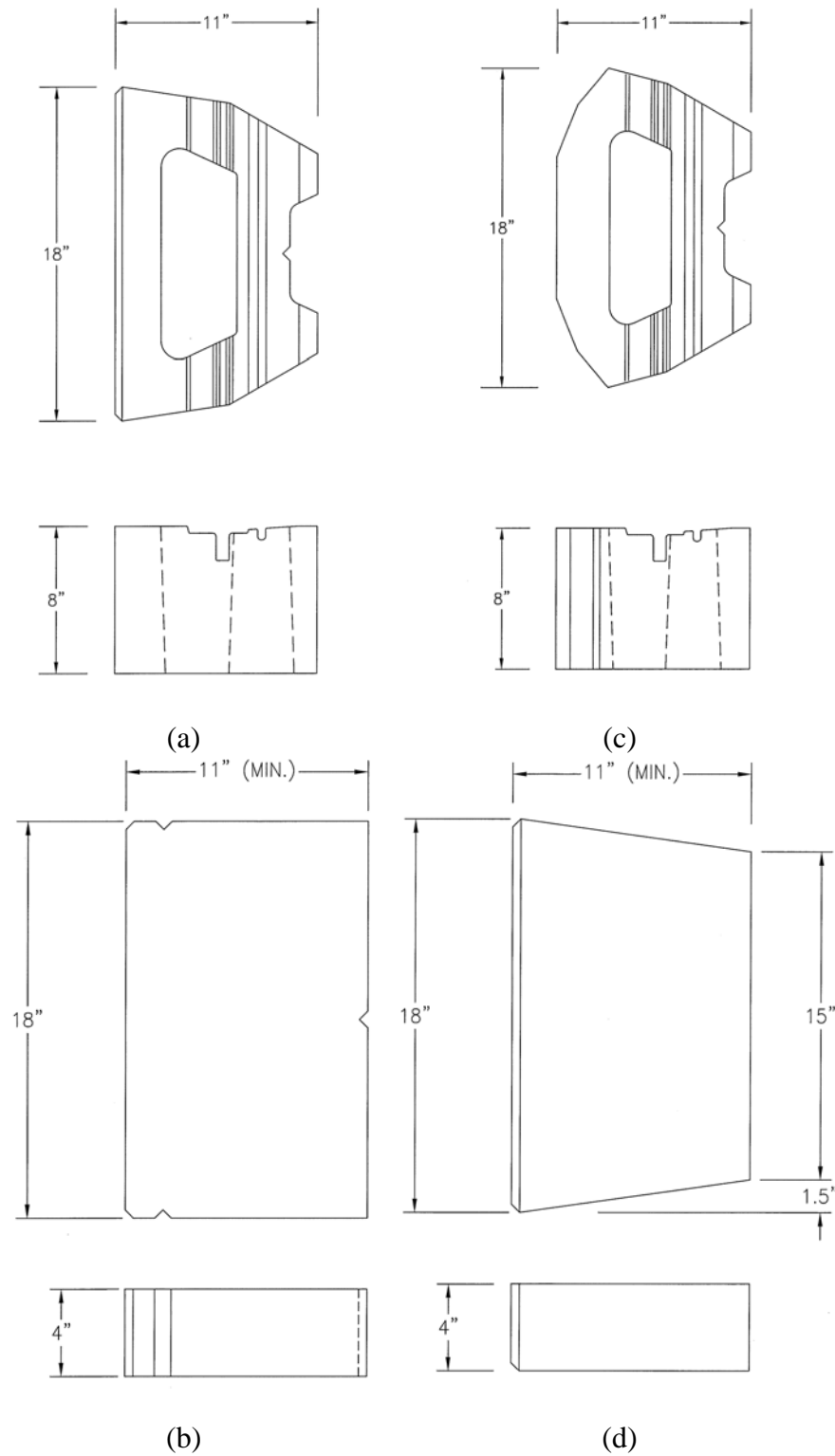


Figure 1: (a) MESA Standard unit, (b) MESA straight-sided cap unit, (c) Standard MESA radius unit, (d) MESA angle sided cap unit.

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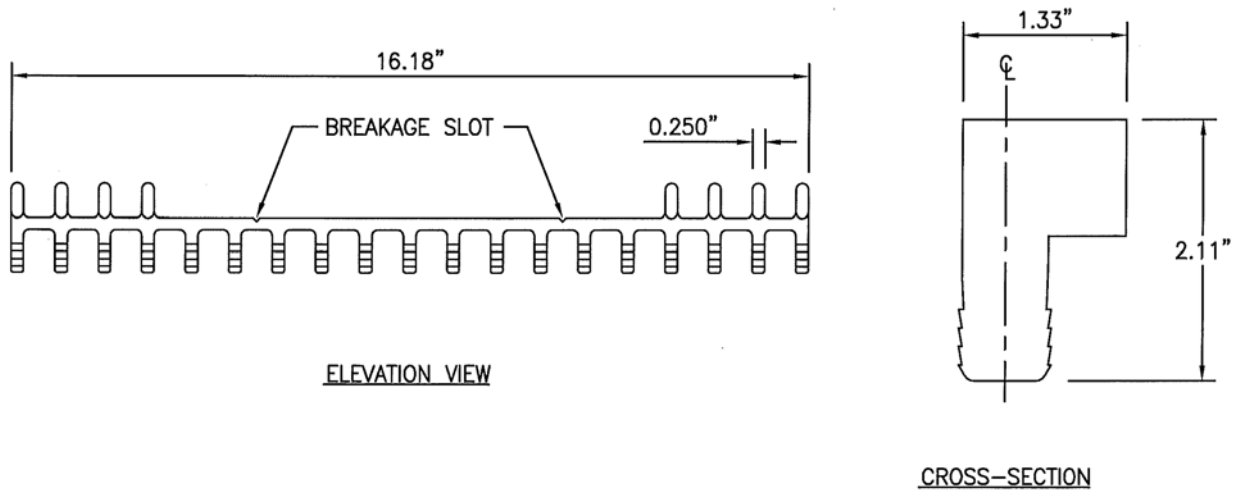


Figure 2: DOT connector.

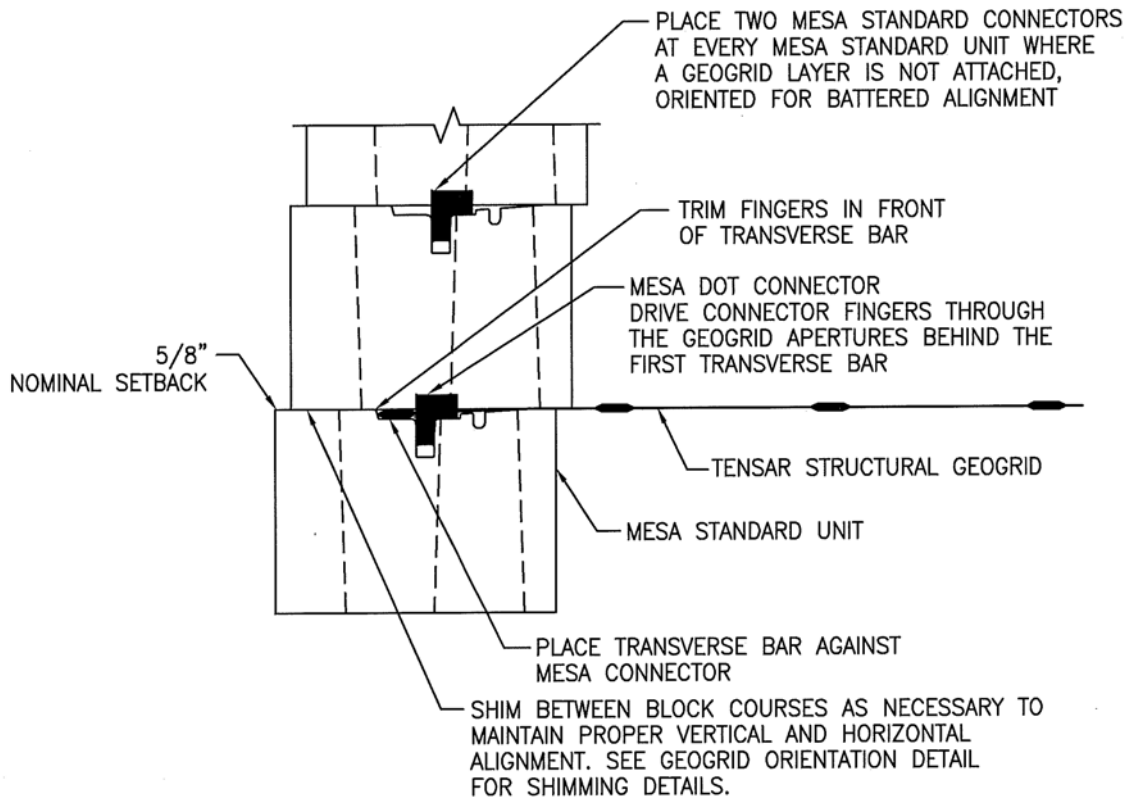


Figure 3: MESA standard unit and geogrid connection detail with DOT connector system.

ADOT Specific Requirements for Tensor's MESA MSE Modular Block Wall System

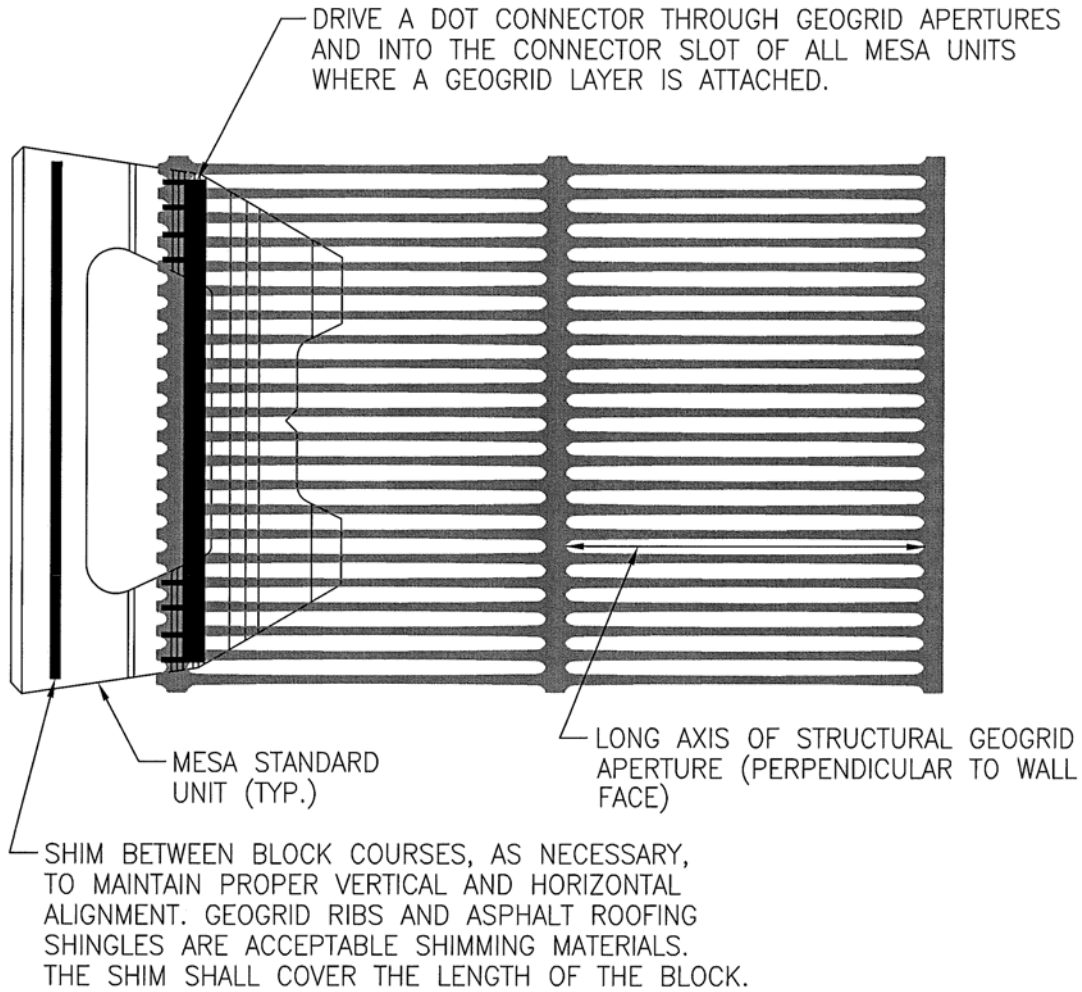


Figure 4: MESA geogrid connection and orientation.

**Table 1
Long-Term Nominal Connection Strength Requirements for
Tensor "UX" Series Geogrid Reinforcements with DOT connector**

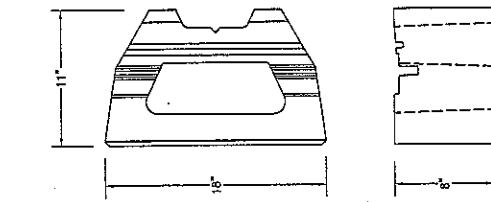
Geogrid	Long-term Nominal Connection Strength, T_{alc}
UX1100MSE	1,179 lb/ft
UX1400MSE	1,426 lb/ft
UX1500MSE	2,320 lb/ft
UX1600MSE	2,932 lb/ft
UX1700MSE	3,354 lb/ft

ADOT Specific Requirements for Tensor's MESA MSE Modular Block Wall System

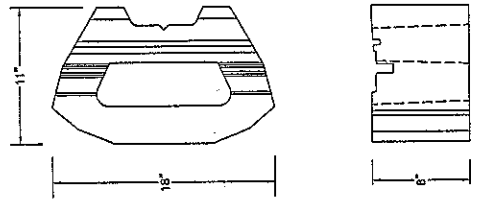
TYPICAL DETAILS

(7 pages)

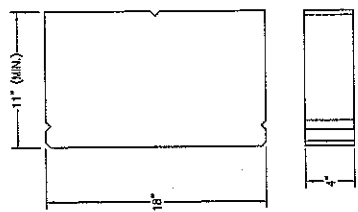
Typical details submitted to ADOT as part of the product approval process are attached. These represent generic details that must be evaluated by the designer based on project- and site-specific requirements. The designer shall also be responsible for ensuring conformance to the details in Figures 1 to 4 as well as the constraints and design standards noted in this evaluation.



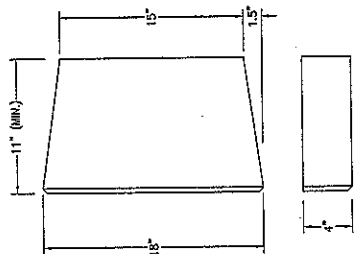
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M-SP-10-001-ENG



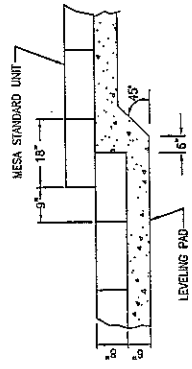
STANDARD MESA RADIUS UNIT
NOT TO SCALE
M-SP-10-002-ENG



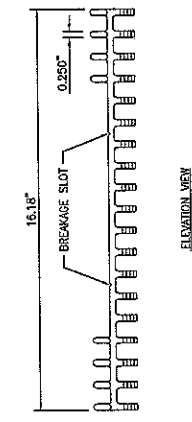
MESA STRAIGHT SIDED CAP UNIT
NOT TO SCALE
M-SP-10-003-ENG



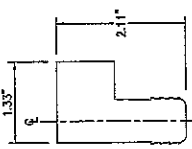
MESA ANGLE SIDED CAP UNIT
NOT TO SCALE
M-SP-10-004-ENG



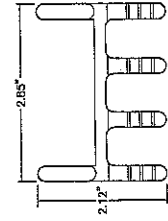
LEVELING PAD STEP DETAIL
NOT TO SCALE
M-SP-10-005-ENG



NOTE:
DOT CONNECTOR CAN BE BROKEN AT
BREAKAGE SLOTS TO FACILITATE INSTALLATION.
DOT CONNECTOR
NOT TO SCALE



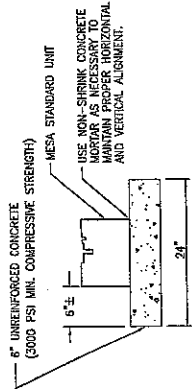
CROSS-SECTION



MESA STANDARD CONNECTOR
NOT TO SCALE
M-SP-10-006-ENG



CROSS-SECTION



CONCRETE LEVELING PAD DETAIL
NOT TO SCALE
M-SP-10-007-ENG

MESA SUBMITTAL.DWG
THIS MESA IS MESA MESH REINFORCING REBAR. THESE PRODUCTS ARE NOT TO BE USED IN ANY APPLICATION WHERE THEY ARE NOT SPECIFICALLY DESIGNED FOR. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.

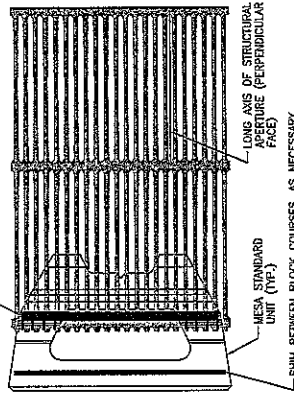
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2	01/25/09	ISSUED FOR PERMAL	RL		

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MESA RETAINING WALL SYSTEM
CATEGORY C-2 SUBMITTAL
PROJECT LOCATION: ARIZONA
STATE OR FEDERAL, NO PROJECT NO.

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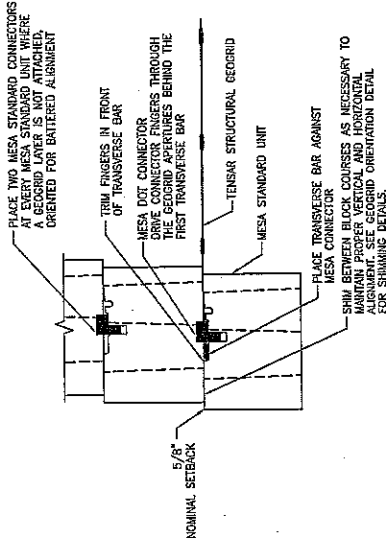
DESIGNED BY	CHECKED BY	DATE	PROJECT NUMBER	SCALE	AS SHOWN
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DRIVE A DOT CONNECTOR THROUGH GEORGRID APERTURES AND INTO THE CONNECTOR SLOT OF ALL MESA UNITS WHERE A GEORGRID BARRIER IS ATTACHED.



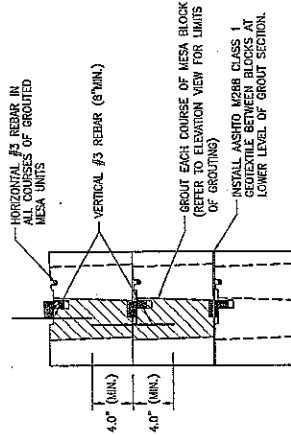
GEORGRID ORIENTATION

NOT TO SCALE
 MESA-SP-19-01-2-000



MESA STANDARD UNIT AND GEORGRID CONNECTION DETAIL WITH DOT CONNECTOR SYSTEM

NOT TO SCALE



GROUT DETAIL

NOT TO SCALE
 MESA-SP-19-01-2-000

MESA SUBMITTALS

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REVISIONS		DATE		DESCRIPTION	
NO.	DATE	BY	DATE	BY	DESCRIPTION
1	01/25/08				ISSUED FOR APPROVAL

PREPARED FOR

ARIZONA DEPARTMENT OF TRANSPORTATION
 TENSAR INTERNATIONAL CORPORATION
 5825 ALLENBROOK DRIVE, SUITE 200
 ATLANTA, GEORGIA 30328
 (404) 290-1230

PROJECT NAME

MESA RETAINING WALL SYSTEM
 CATEGORY C-2 SUBMITTAL

PROJECT LOCATION

ARIZONA
 STATE OF FEDERAL RD PROJECT No.

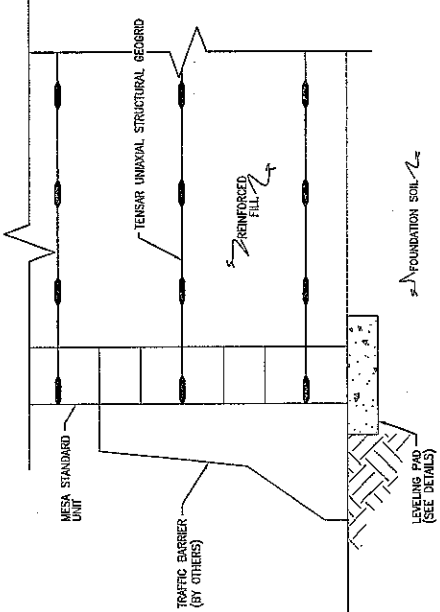
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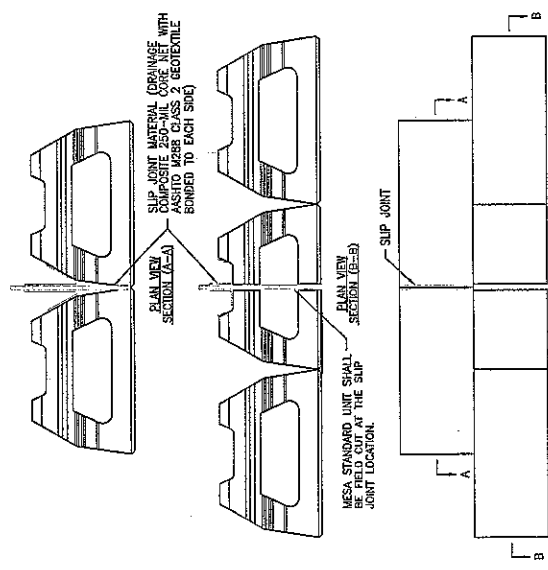
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AS SHOWN
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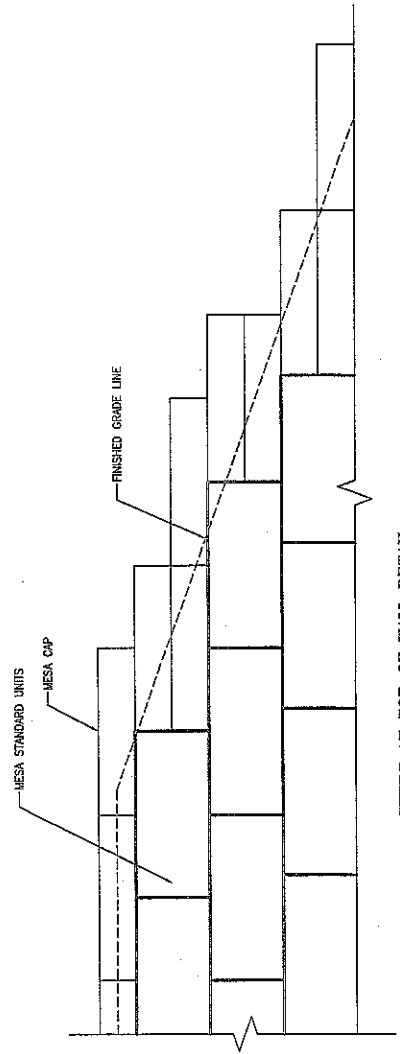
TENSAR INTERNATIONAL



TRAFFIC BARRIER AT BOTTOM OF WALL DETAIL
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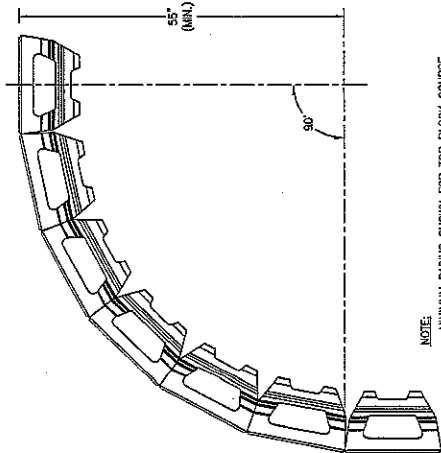


SLIP JOINT DETAIL
NOT TO SCALE
MCS-SP-91P-1500



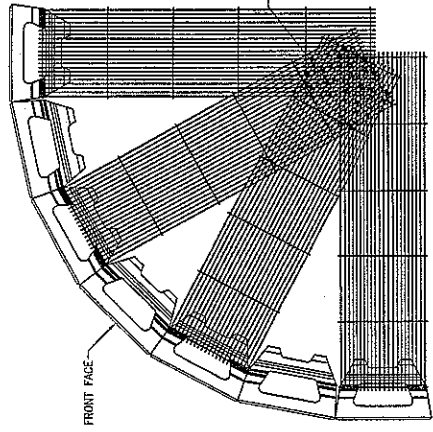
STEPS AT TOP OF WALL DETAIL
NOT TO SCALE
MCS-SP-91P-1500

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RJ	WL	01/25/09	AS SHOWN																											

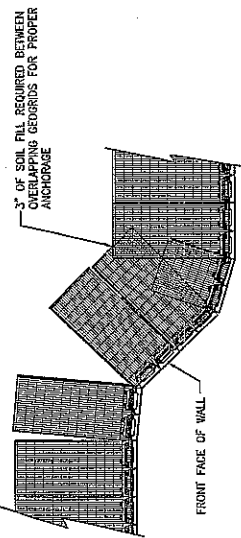


NOTE:
 MINIMUM RADIUS SHOWN FOR TOP BLOCK COURSE.
 RADIUS FOR FIRST AND SUBSEQUENT BLOCK COURSE
 SHOULD BE CALCULATED AS A FUNCTION OF WALL
 HEIGHT AND ENTICE.

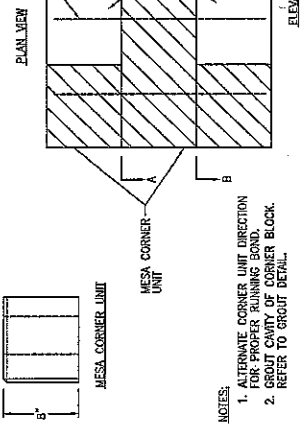
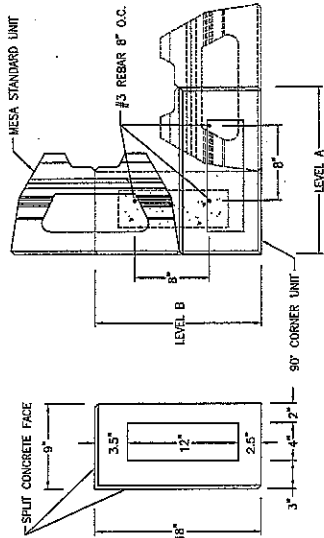
90° CURVE DETAIL
MESA STANDARD UNIT
 NOT TO SCALE
 MESA-SP-22-011-5-2006



GEOGRID AT 90° CURVE DETAIL
MESA STANDARD UNIT
 NOT TO SCALE



GEOGRID AT WALL CORNER DETAIL
 NOT TO SCALE
 MESA-SP-22-008-1-2006



NOTES:
 1. ALTERNATE CORNER UNIT DIRECTION FOR PROPER RUNNING BOND.
 2. GROUT CAVITY OF CORNER BLOCK. REFER TO GROUT DETAIL.

MESA CORNER UNIT AND REBAR
 NOT TO SCALE
 MESA-SP-22-008-2-2006

MESA SUBMITTALING
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NO.	DATE	DESCRIPTION	BY	CHK.
1		ISSUED FOR PERMIT		
2		FOR REVIEW		
3		FOR APPROVAL		
4		FOR CONSTRUCTION		

PREPARED FOR
ARIZONA DEPARTMENT OF TRANSPORTATION

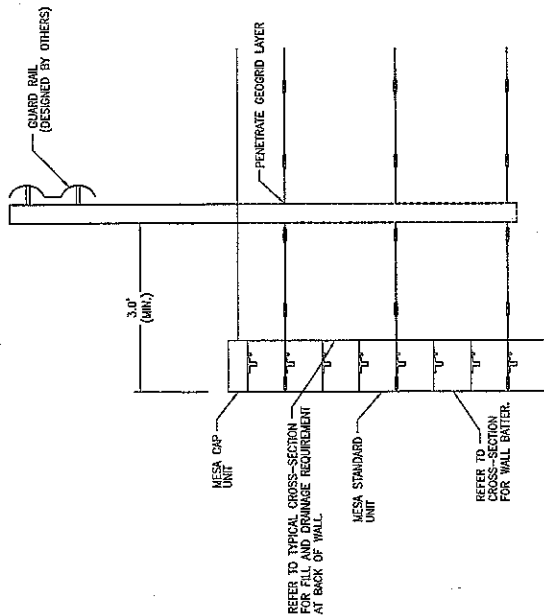
OWNER'S RECORDS
TENSAR INTERNATIONAL CORPORATION
 8000 W. WILLOW AVE. SUITE 200
 MESA, ARIZONA 85208
 (480) 250-1200

PROJECT NAME
MESA RETAINING WALL SYSTEM
CATEGORY C-2 SUBMITTAL

PROJECT LOCATION
ARIZONA
 STATE OR FEDERAL PROJECT NO.

DRAWING TITLE
STANDARD DETAILS

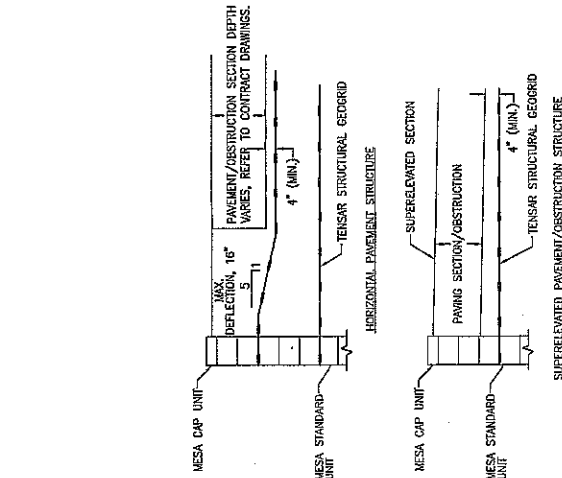
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4	01/25/09	01/25/09
5	01/25/09	01/25/09
6	01/25/09	01/25/09
7	01/25/09	01/25/09



- NOTES:
1. PLACE AND COMPACT BACKFILL TO FINISH GRADE.
 2. AUGER THROUGH GEORGRID, AS REQUIRED, TO SPECIFIED DEPTH.
 3. INSTALL POST AND FILL HOLE WITH 3000 PSI (MIN) CONCRETE, OR IN ACCORDANCE WITH PROJECT SPECIFICATIONS, WHICHEVER IS GREATER.

TOP OF WALL SECTION & GUARD RAIL DETAIL

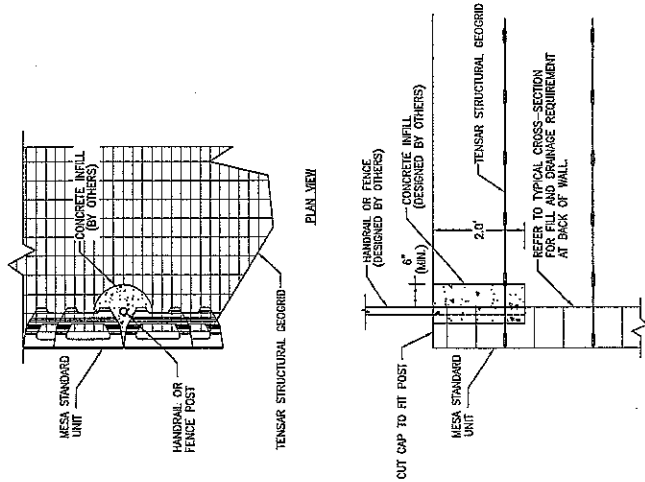
NOT TO SCALE
16-00-0000-000



- NOTE:
- CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PLACEMENT OF THE GEORGRID TO AVOID CONFLICT WITH THE PAVEMENT/OBSTRUCTION SECTION. GEORGRID MUST BE SEPARATED FROM THE PAVEMENT/OBSTRUCTION SECTION BY A MINIMUM OF 4\"/>

GEORGRID PLACEMENT AT PAVEMENT/OBSTRUCTION SECTION

NOT TO SCALE
16-00-0000-000



- STEP 1: PLACE AND COMPACT FILL TO BOTTOM OF HANDRAIL OR POST.
- STEP 2: PLACE TOP LAYER OF TENSAR STRUCTURAL GEORGRID AND REMAINING MESA STANDARD UNITS ABOVE IT.
- STEP 3: CUT TENSAR STRUCTURAL GEORGRID AND THEN SET HANDRAIL OR FENCE POST.
- STEP 4: FORM AND POUR CONCRETE INFILL AT TAIL OF MESA STANDARD UNITS.

HANDRAIL OR FENCE POST ON TOP OF WALL

NOT TO SCALE
16-00-0000-000

MESA SUBMITTALS DVS

THE MESA® IS USED MESA GEORGRID REQUIREMENTS OF THESE SPECIFIC TENSAR PRODUCTS INCORPORATED HEREIN WHICH ARE PROVIDED TO YOU AS A SUBMITTAL. THESE PRODUCTS ARE NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF TENSAR. ANY CHANGES TO THESE PRODUCTS MUST BE APPROVED BY TENSAR. ANY MARKS DISCLOSED TO OTHERS WITHOUT THE CONSENT OF TENSAR WILL BE AT YOUR OWN RISK.

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MESA
RETAINING WALL SYSTEMS

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	01/25/08	ISSUED FOR PERIOD	ML
2	01/25/08	ISSUED FOR PERIOD	ML
3	01/25/08	ISSUED FOR PERIOD	ML
4	01/25/08	ISSUED FOR PERIOD	ML
5	01/25/08	ISSUED FOR PERIOD	ML
6	01/25/08	ISSUED FOR PERIOD	ML
7	01/25/08	ISSUED FOR PERIOD	ML

PREPARED FOR: ARIZONA DEPARTMENT OF TRANSPORTATION

PROJECT NAME: MESA RETAINING WALL SYSTEM

CATEGORY C-2 SUBMITTAL

PROJECT LOCATION: ARIZONA STATE OF FEDERAL AID PROJECT No.

OWNER OF RECORD: TENSAR INTERNATIONAL CORPORATION

DESIGNED BY: TENSAR INTERNATIONAL CORPORATION

DATE: 01/25/08

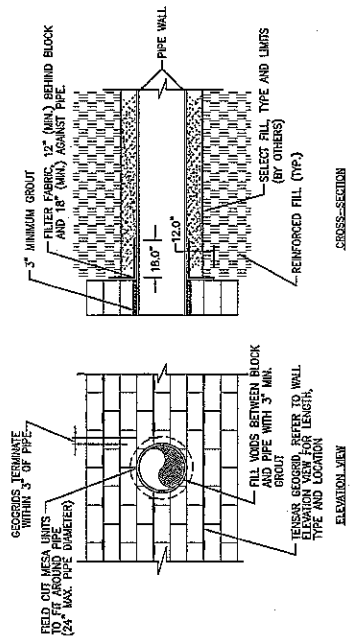
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PROJECT NUMBER: 01/25/08

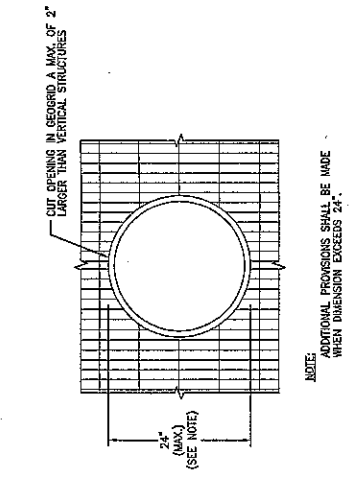
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STANDARD DETAILS

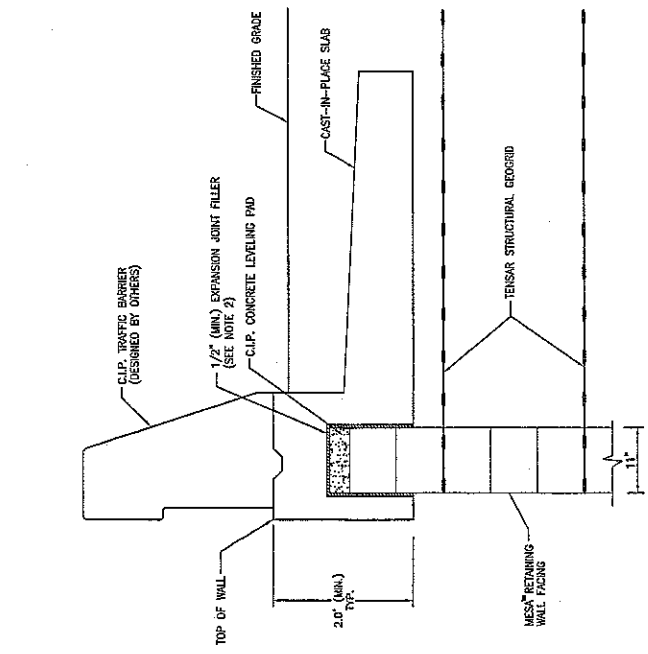
NAME	DATES	PROJECT NUMBER
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ML	01/25/08	SHEET NUMBER



PIPE PENETRATION DETAIL
NOT TO SCALE
MESA-PP-00-002-1.000

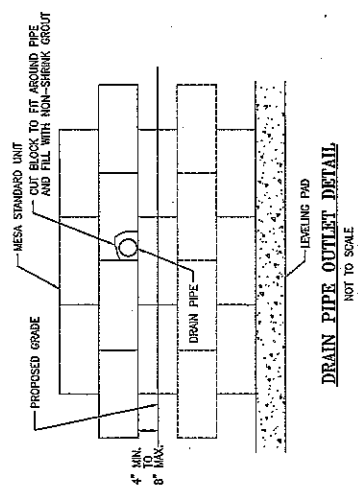


GEOGRID PENETRATION DETAIL
NOT TO SCALE
MESA-PP-00-002-1.000

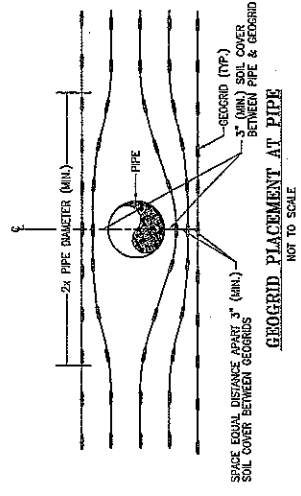


TYPICAL C.I.P. TRAFFIC BARRIER DETAIL
NOT TO SCALE

- NOTES**
1. TRAFFIC BARRIER SHALL BE DESIGNED BY OTHERS.
 2. RASING SAND BRACKER SHALL BE PROVIDED BETWEEN C.I.P., CONCRETE AND MESA BLOCKS.



DRAIN PIPE OUTLET DETAIL
NOT TO SCALE
MESA-PP-00-002-1.000



GEOGRID PLACEMENT AT PIPE
NOT TO SCALE

MESA SUBMITTAL

THIS DESIGN IS BASED UPON STANDARD PROPERTIES OF THESE SPECIFIC MESA PRODUCTS. THE SUBMITTANT AGREES TO HOLD THE MESA PRODUCTS MANUFACTURER HARMLESS FROM ANY LIABILITY ARISING FROM THE USE OF THESE PRODUCTS. THE SUBMITTANT AGREES TO HOLD THE MESA PRODUCTS MANUFACTURER HARMLESS FROM ANY LIABILITY ARISING FROM THE USE OF THESE PRODUCTS. THE SUBMITTANT AGREES TO HOLD THE MESA PRODUCTS MANUFACTURER HARMLESS FROM ANY LIABILITY ARISING FROM THE USE OF THESE PRODUCTS.

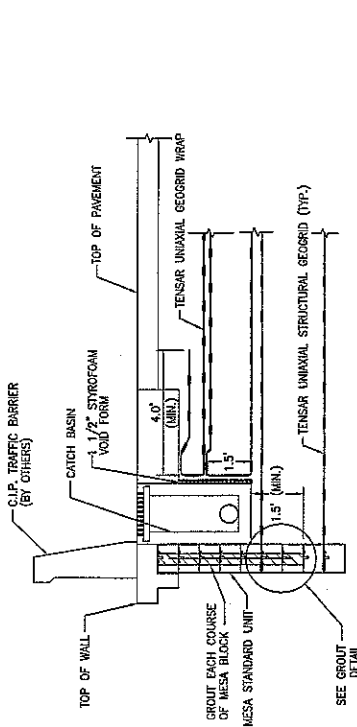
DATE: 01/25/09
BY: [Signature]
FOR APPROVAL: [Signature]

MESA
RETAINING WALL SYSTEMS
PRE-CAST CONCRETE
15111 W. WILSON AVE.
PHOENIX, AZ 85044
(602) 998-1000

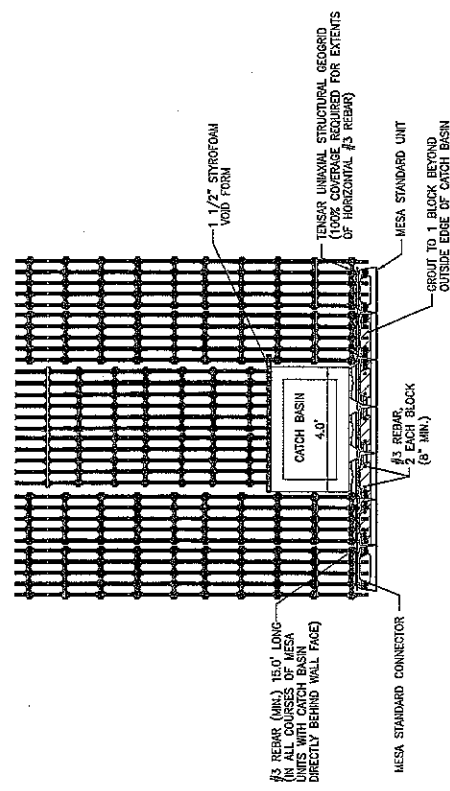
PREPARED FOR: ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT LOCATION: ARIZONA
STATE OR FEDERAL AID PROJECT NO.:
DRAWN BY: RJ
CHECKED BY: [Signature]
DATE: 01/25/09
SCALE: AS SHOWN
SHEET NUMBER: 6 OF 7

STANDARD DETAILS

PROJECT NAME: MESA RETAINING WALL SYSTEM CATEGORY C-2 SUBMITTAL
PROJECT LOCATION: ARIZONA
STATE OR FEDERAL AID PROJECT NO.:
DRAWN BY: RJ
CHECKED BY: [Signature]
DATE: 01/25/09
SCALE: AS SHOWN
SHEET NUMBER: 6 OF 7



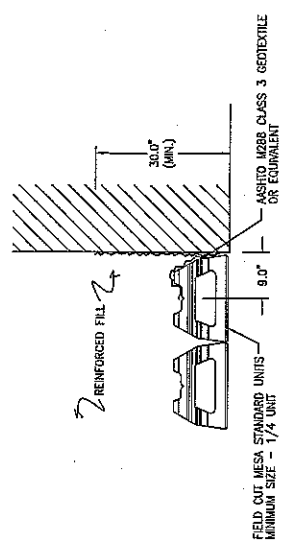
CROSS-SECTION



PLAN VIEW

CATCH BASIN OBSTRUCTION DETAIL

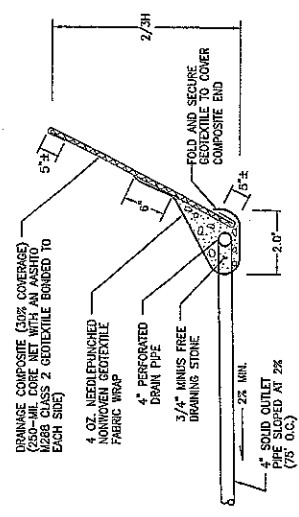
NOT TO SCALE
16-C-8-88-04-2046



- NOTES:
1. GEORID AND CONNECTORS NOT SHOWN FOR CLARITY.
 2. FIELD CUT MESA STANDARD UNIT (MIN. 1/4 UNIT) FOR RUNNING BOND.
 3. REINFORCED FILL CROSS-SECTION PER FILL AND DRAINAGE REQUIREMENT AT BACK OF WALL.

MESA WALL TRANSITION AT STRUCTURE

NOT TO SCALE
16-C-8-88-04-2046



- NOTE:
SEE CONSTRUCTION REQUIREMENTS FOR TYPE OF PIPE.

SUBDRAIN DETAIL

NOT TO SCALE

MESA SUBMITTALS

THIS DESIGN IS BASED UPON SPECIFIC PROPERTIES OF THESE PRODUCTS. THE USER SHALL VERIFY THE PROPERTIES OF THE PRODUCTS WILL MEET THE DESIGN. THIS DRAWING IS BEING PROVIDED TO TENSAR, ANY SUBSTITUTION OF THE SPECIFIED PRODUCTS WITHOUT THE WRITTEN CONSENT OF TENSAR INTERNATIONAL CORPORATION. TENSAR INTERNATIONAL CORPORATION

NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
0	07/25/08	ISSUED FOR APPROVAL	ML		



TENSAR INTERNATIONAL CORPORATION
2900 CLEVELAND ROAD, SUITE 200
ATLANTA, GEORGIA 30328
(404) 256-1920

PREPARED FOR: ARIZONA DEPARTMENT OF TRANSPORTATION

PROJECT LOCATION: ARIZONA
STATE OF FEDERAL AID PROJECT NO. (404) 256-1920

PROJECT NAME: MESA RETAINING WALL SYSTEM
CATEGORY C-2 SUBMITTAL

DRAWING TITLE

REVISED BY	DATE	REASON
ML	01/25/08	SCALE
ML	01/25/08	PROJECT NUMBER
ML	01/25/08	AS SHOWN
ML	01/25/08	SHEET NUMBER

STANDARD DETAILS

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