ADOT Vendor	SSL, LLC. 4740 Scotts Valley Drive, Suite E, Scotts Valley, CA 95066					
General Information	ADOT Product ID No. 99112 Approval Date: 12/15/2009 Approval Renewed Date: 04/2016 Re-evaluation due: 04/2021					
Design Standards	More Stringent of the following:					
	2008 ADOT Standard Specifications for Road and Bridge Construction					
	 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.					
	AASHTO (2012 or latest Specification or Interims) LRFD Bridge Design Specifications					
HITEC Evaluation	Highway Innovative Technology Evaluation Center (HITEC) evaluation is not available for this system.					
Facing Evaluated	See sheets SD-02, SD-04 and SD-05 of the attracted drawings.					
Facing Connector	See sheets SD-02 and SD-03 of attached drawings. Also see "Connection/Assembly Detail" on sheet SD-04 of the attached drawings for additional detail.					
Soil Reinforcement Evaluated	Steel grid reinforcement fabricated from W11, W20 or W24 steel wire. The longitudinal wires are spaced at 8 inches on center, and the transverse (cross) wires are spaced from 6 to 30 inches on center depending on the wall design conditions. Each grid may have between 4 and 8 longitudinal wires. In some cases, a 2 longitudinal wire grid may be used. See included drawings for details.					
Notes/Constrains	In addition to the general design requirements provided in the Design Standards listed above, the following specific requirements apply:					
	 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. Tolerances shall be the more stringent of those noted in SSL's attached drawings and the Design Standards listed above.					
	Use of soil reinforcements not connected to the wall face is not allowed.					

- The transverse wires on the grid shall be uniformly distributed along the complete length of the grid.
- Reinforcement pullout shall be calculated based on the default values for steel grid reinforcement provided in the latest AASHTO specification (Design Standard 4 listed above).
- Vertical and horizontal spacing of soil reinforcement as well as maximum local deformation between soil reinforcement layers shall not exceed the requirements in the latest ADOT MSE Wall LRFD based Special Provisions (Design standard 2 listed above). For walls that are greater than 20-feet in height, the maximum vertical spacing of the soil reinforcements shall be 18 inches for the portion of the wall more than 20-feet below the wall top at the face.
- Facing connector shall be designed to have adequate life considering corrosion loss based on the design (service) life of the structure noted on the plans or specifications with a minimum of 75 years design life for permanent structures.
- For all permanent walls, the facing panel wires shall be galvanized in accordance with requirements of the latest AASHTO specification (Design standard 4 listed above). For temporary walls, if galvanization is not used, the life of the facing wires shall be designed to be adequate for the intended life.
- The minimum clear opening dimensions for the hardware cloth (filter fabric, hardware cloth or backing mats) shall not exceed the maximum particle size of the backfill soil.
- Connector loops embedded in the facing panels shall be lined up such that the steel grid reinforcement crossbar at the connection is uniformly loaded.
- Cutting of transverse wires of the steel grid is not permitted.
- All details for penetration of culvers 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.

Assumptions

- Vendor submittals shall be in accordance with the design standards and other requirements listed herein.
- Vendor will submit a copy of this Specific Requirements with its project and site specific design to ADOT and its representatives for review and approval consideration for a specific construction project.
- ADOT and its design representatives will evaluate the project and site specific application of SSL's MSE *Plus* Welded Wire system and review submittals for approval consideration in strict

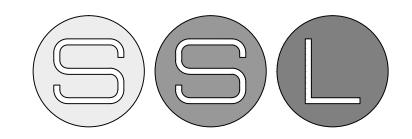
accordance with the design standards, limitations, and requirements listed herein. Typical details in this package my not be applicable to a given project and will be modified, based on the site specific considerations, as necessary by the designer in consultation with the vendor.

 During construction of the SSL's MSE Plus Welded Wire system, ADOT and its representatives will enforce project and site specific acceptance requirements in accordance with the plans and specifications.

TYPICAL DETAILS

(10 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 constraints and design standards noted in this evaluation.



TM

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INDEX OF DRAWINGS

SHEET DESCRIPTION
SD-01 TITLE & INDEX
SD-02 CONNECTION DETAILS: 1 OF 2
SD-03 CONNECTION DETAILS: 2 OF 2
SD-04 ERECTION DETAILS: 1 OF 2
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SD-07 DEICING MEMBRANE
SD-08 SUBSURFACE DRAINAGE
SD-09 END OF WALL DETAIL
SD-10 BIN WALL DETAIL

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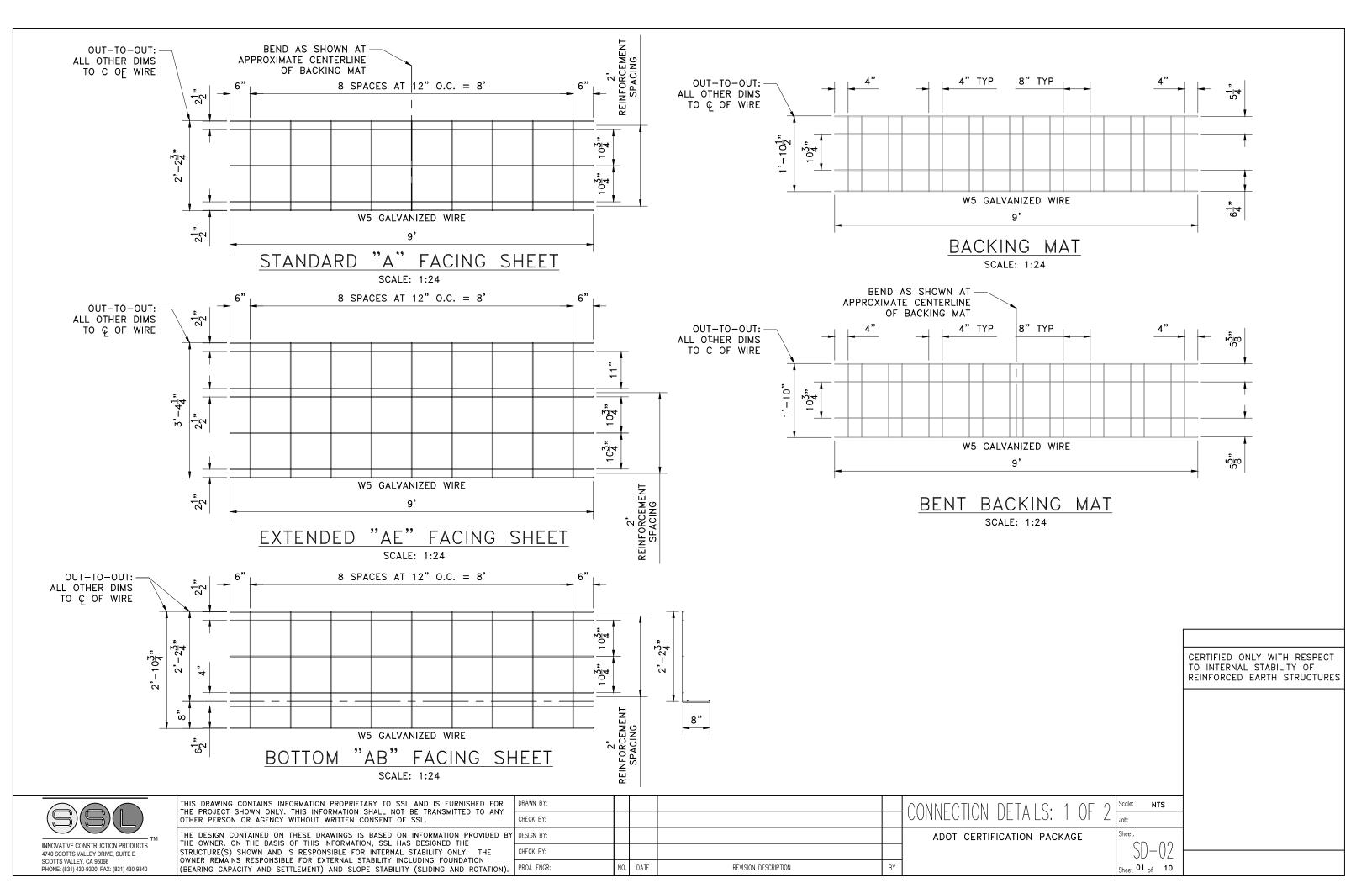
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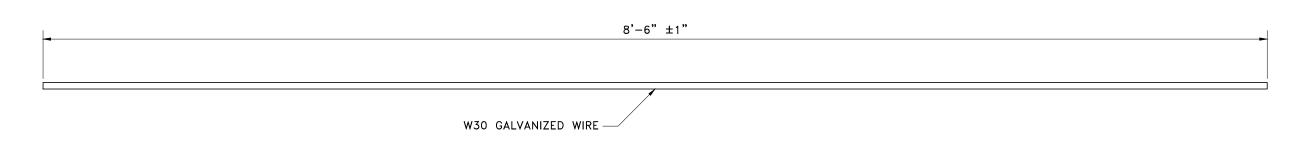
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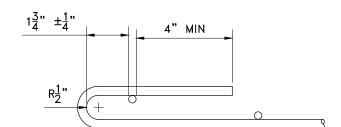
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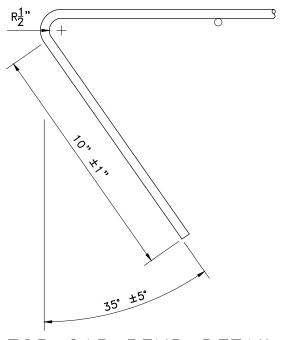


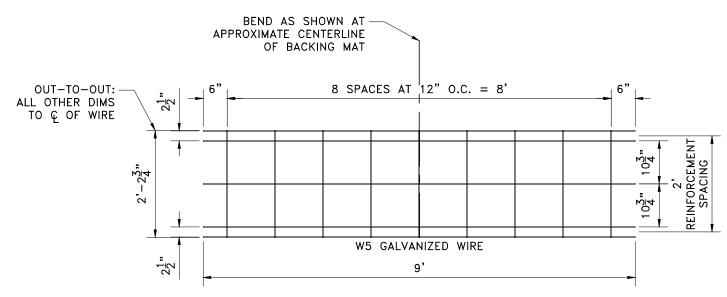
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SOIL REINFORCEMENT BENT DETAIL

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CORNER "C" FACING SHEET

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TOP CAP BEND DETAIL

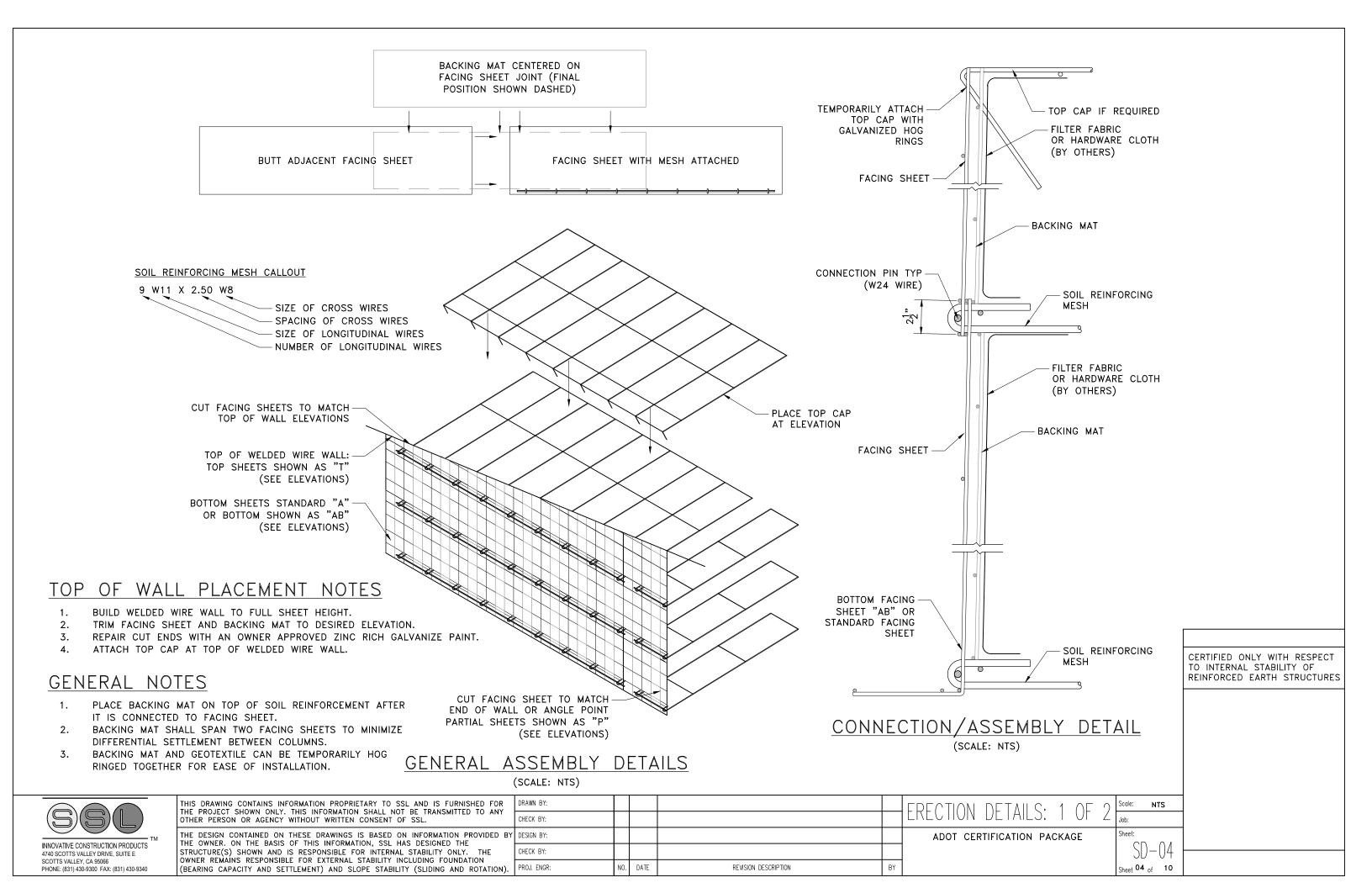
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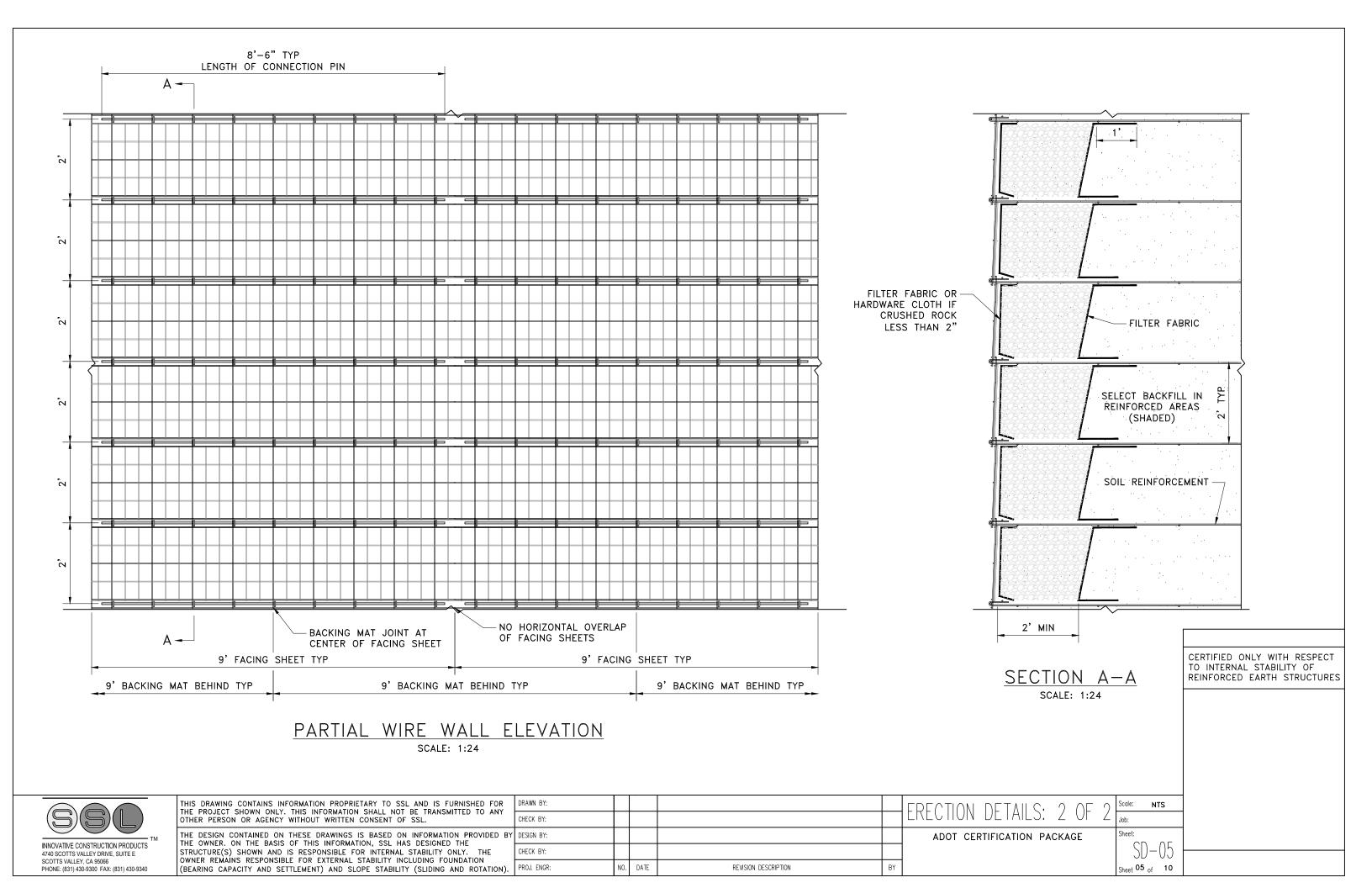
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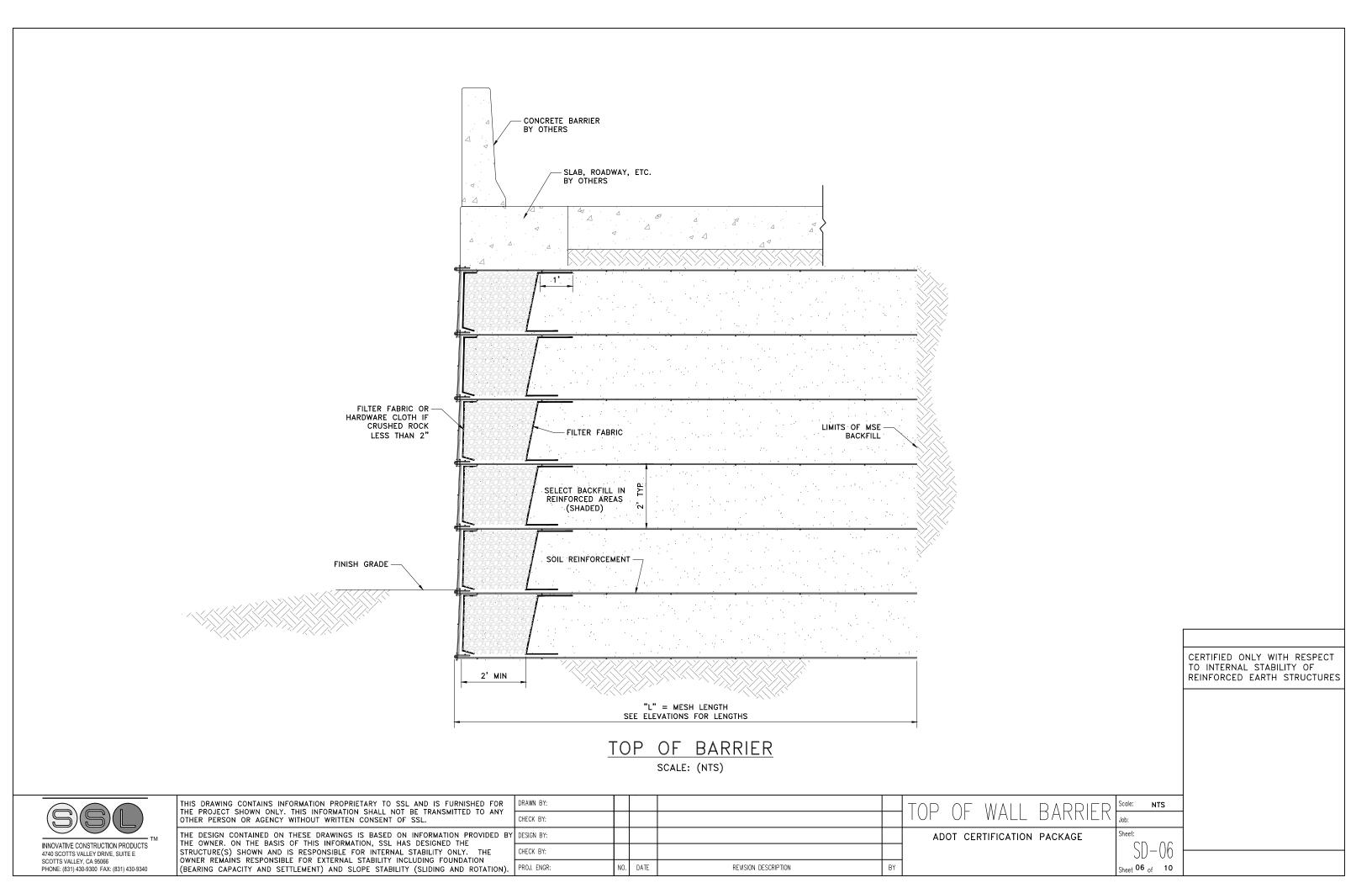
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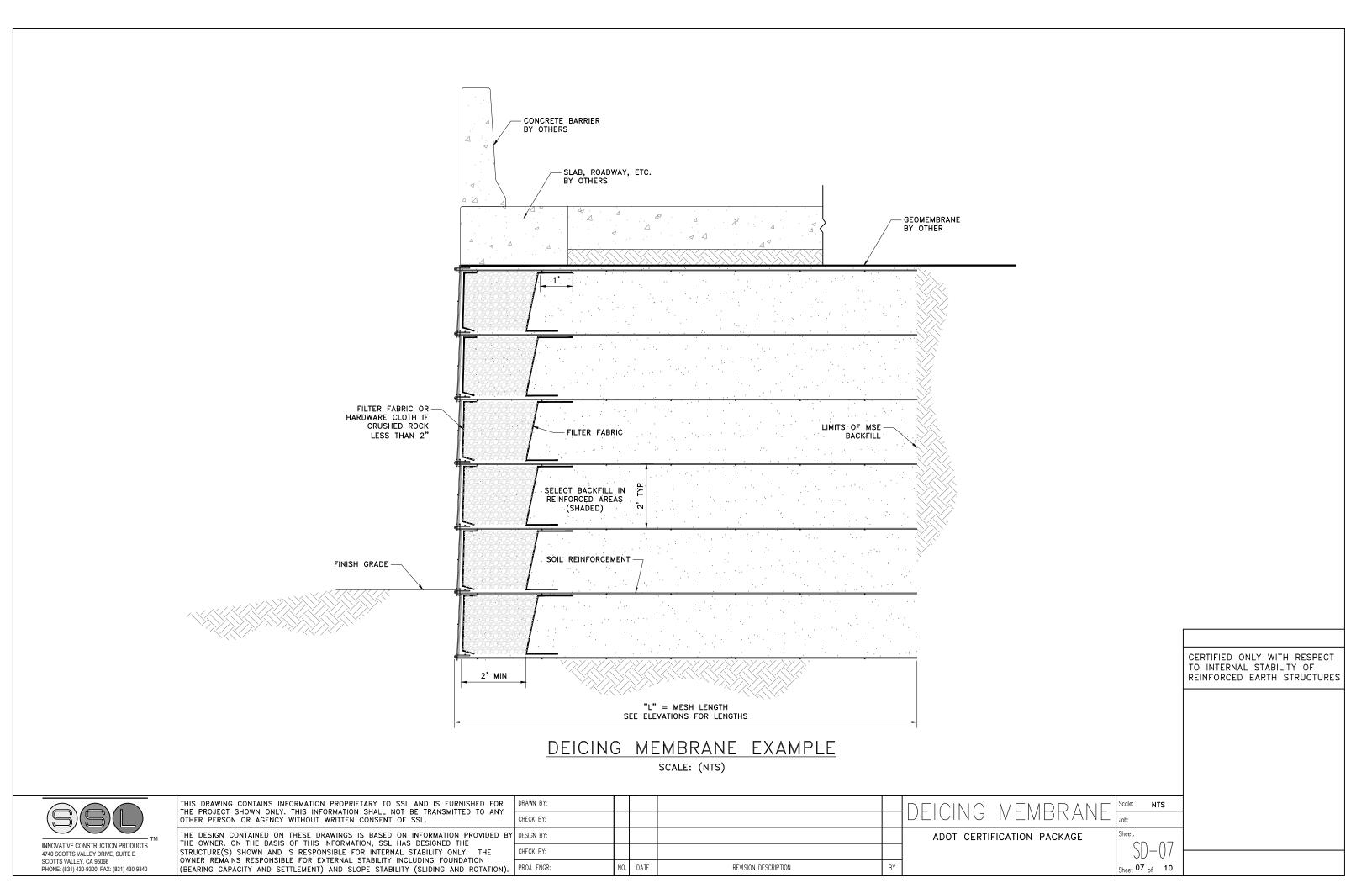
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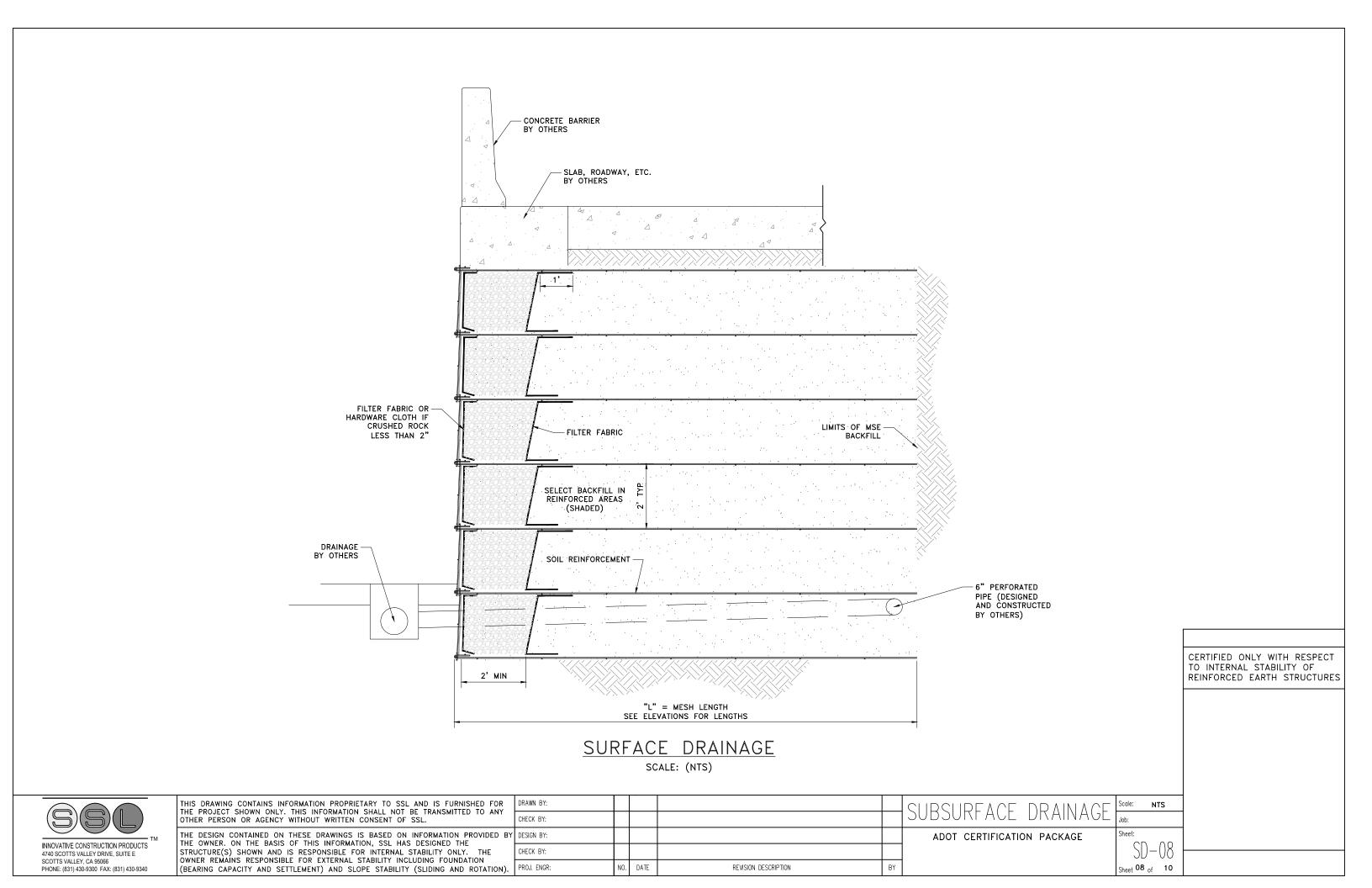
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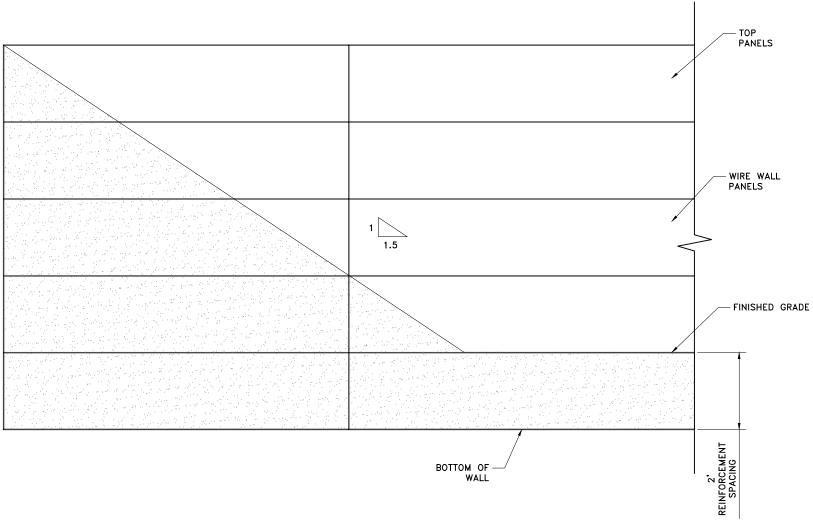












NOTES:
MIRROR FOR OTHER END OF WALL

END OF WALL ELEVATION

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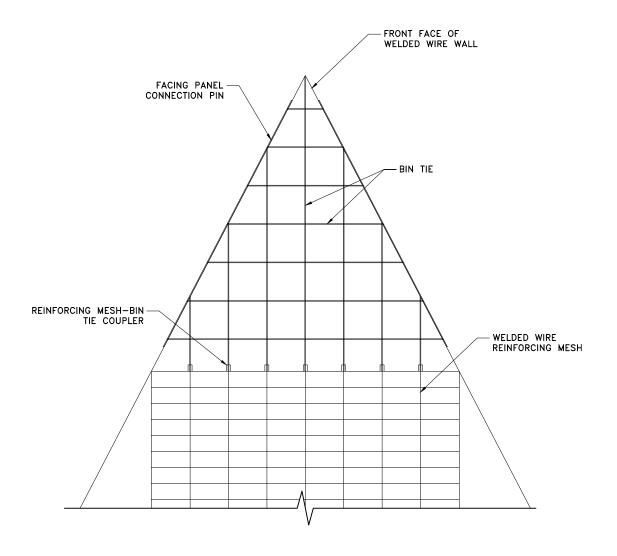
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BIN WALL PLAN VIEW

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