GENERAL NOTES

1. DESIGN IS BASED ON THE ASSUMPTION THAT MATERIAL WITHIN THE REINFORCED BOX, VOLUME, AND METHODS OF CONSTRUCTION AND QUALITY OF PRECIMITATED MATERIALS AND WORKS CORRESPOND TO THE DESIGNING MANUFACTURER TECHNICAL SPECIFICATIONS AND OTHER DESIGN DATA.

2. FACTORS OF SAFETY

- 2.1. LIMITATIONS = 3.0
- 2.2. INTERNAL EARTH PRESSURE = 2.0
- 2.3. INTERNAL EARTH PRESSURE = 1.5
- 2.4. ALLOWABLE SHEAR IN REINFORCEMENT MESH AT END OF DESIGN LIFE = 0.47 Ty

3. SOIL CHARACTERIZATION ADJUSTED FOR DESIGN

- 3.1. REINFORCEMENT MESH FABRICATION AND BENDING AND SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-123.
- 3.2. REINFORCEMENT MESH MUST BE WELDED AT THE JUNCTIONS BETWEEN LONGITUDINAL AND TRANSVERSE WIRES IN ACCORDANCE WITH ASTM A-185.
- 3.3. GALVANIZATION SHALL BE APPLIED AFTER MESH FABRICATION AND BENDING AND SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-123.

4. FACTORS OF SAFETY

- 4.1. FACTOR OF SAFETY FOR BENDING = 2.5
- 4.2. FACTOR OF SAFETY FOR SLIDING = 1.5
- 4.3. OVERALL STABILITY = 1.5
- 4.4. INTERNAL PULLOUT = 1.5 (ALLOW DEFORMATION OF 3/4")
- 4.5. OVERTURNING = 2.0

5. NATURE OF MATERIALS

- 5.1. MATURE MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR MSE EARTH WALLS.
- 5.2. REINFORCING MESH AT END OF DESIGN LIFE = 0.47 Ty

6. WALL CONSTRUCTION CONT.

- 6.1. IF EXISTING STRUCTURES, PAVING, FENCES, OR GENERAL POSTS, WHICH ARE WITHIN THE REINFORCED BOX, VOLUME, AND METHODS OF CONSTRUCTION AND QUALITY OF PRECIMITATED MATERIALS AND WORKS CORRESPOND TO THE DESIGNING MANUFACTURER TECHNICAL SPECIFICATIONS AND OTHER DESIGN DATA, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE WHETHER SUCH MATERIALS SHOULD BE EXCLUDED.
- 6.2. TOP PANELS IN PRECAST CONCRETE WALLS SHALL BE CAST TO FOLLOW THE PROFILE OF THE WALL.

7. PRECAST PANELS AND ACCESSORIES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATION SECTION 548 TO A LEVEL OF (±) ABOVE THE MESH CONNECTION IN THE PANELS.

8. THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER REINFORCING MESH DOWNWARD TO AVOID CONFLICTS WITH PAVING AND SUBGRADE.

9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE ALL GUARDRAIL POSTS BEHIND THE MSE PANELS PRIOR TO PLACEMENT OF THE TOP PANELS, BENEATH PRECAST COPING, TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE BACKFILL MATERIAL.


11. THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY OTHERS. ON THE BASIS OF THIS INFORMATION, SSL CONSTRUCTION IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY DESIGN INCLUDING FOUNDATION AND SLOPE STABILITY IS THE RESPONSIBILITY OF OTHERS.

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13. THE PROJECT IS COVERED BY THE INTERIM STANDARD IN ENGLISH UNITS.

14. THE PROJECT IS COVERED BY THE APPLICABLE TO DESIGN STANDARDS.

15. WALL CONSTRUCTION CONT.

- 15.2. INTERNAL PULLOUT = 1.5 (ALLOW DEFORMATION OF 3/4")
- 15.3. OVERTURNING = 2.0

16. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE MSE PANELS PRIOR TO PLACEMENT OF THE TOP PANELS, BENEATH PRECAST COPING, TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE BACKFILL MATERIAL.

17. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE MSE PANELS PRIOR TO PLACEMENT OF THE TOP PANELS, BENEATH PRECAST COPING, TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE BACKFILL MATERIAL.

18. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE MSE PANELS PRIOR TO PLACEMENT OF THE TOP PANELS, BENEATH PRECAST COPING, TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE BACKFILL MATERIAL.

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24. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE MSE PANELS PRIOR TO PLACEMENT OF THE TOP PANELS, BENEATH PRECAST COPING, TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE BACKFILL MATERIAL.

DATE: 01-01-05

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEMS
SSL
MSE PLUS WALL SYSTEM

INTERIM STANDARD

FINANCIAL PROJECT ID

STATE PHASE NO.

5035

5035
THE RESPONSIBILITY OF THE OWNER AND THE ENGINEER BUT NOT LIMITED TO, SLOPE AND FOUNDATION STABILITY IS THE PROJECT BID DOCUMENTS PLUS STRUCTURES ONLY. EXTERNAL STABILITY INCLUDING, THESE DRAWINGS, AS WELL AS THE DESIGN, ARE CERTIFIED WITH RESPECT TO THE INTERNAL STABILITY OF THE MSE ASSUMPTION THAT ALL MATERIALS, INCLUDING THE BACKFILL THE DESIGN OF ALL MSE PLUS WALLS IS BASED ON THE SPECIFICATIONS FOR MSE PLUS RETAINING WALLS AND METHODS OF CONSTRUCTION, CONFORM TO THE FOR THE OWNER.

THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.
REINFORCING MESH DETAIL

NOTES:
1. Panel Reinforcement Bars Shall Be Deformed Hot-Dipped Steel Bars for Concrete Reinforcement Conforming To The Specification of ASTM Designation A615, Grade 60, Including Supplementary Requirement S1 Or Low Alloy Steel Deformed Bars Conforming To The Specifications of ASTM Designation A706.
2. W11 And W20 Steel Wire Shall Conform To The Designation Of ASTM Designation A123, After Bending.
3. The Loop Embed-Reinforcing Mesh Connector Bars Shall Be Galvanized In Accordance With ASTM Designation A82. The Welded Bars Shall Be Galvanized In Accordance With ASTM Designation A615, Grade 60, Including Supplementary Requirement S1 Or Low Alloy Steel Deformed Bars Conforming To The Specification of ASTM Designation A706.
4. Concrete Panels To Be Made With Class IV Concrete And Have A 28 Day Compressive Strength Of 5500psi.
5. All Panel Reinforcement Must Have A Minimum Of 2" Cover With Concrete On All Sides.
6. Concrete Panels With W11 Mesh Attached Shall Be Cast With 4 Vertical And 5 Horizontal Rebars, Panels With W20 Mesh Attached Shall Be Cast With 6 Vertical And 9 Horizontal Rebars.
7. When Cast In Place Coping Is Used In Conjunction With The MSE Wall, The Top Panel Shall Be Cast With 7 W11 Steel Bars At 2'-0" On Center, Extended To Minimum Of 3'-6" From The Top Surface Of The Panel For Attachment To The Coping Element.

FILTER FABRIC DETAIL AND PANEL PLACEMENT

REINFORCING MESH CONNECTOR BAR DETAIL

THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.

DATE: 01-01-05

REINFORCING MESH DETAIL
**INTERIM STANDARD IN ENGLISH UNITS**

**APPLICABLE TO DESIGN STANDARDS**

**BOOKLET PUBLISHED IN ENGLISH UNITS.**

---

**SSL MSE PLUS WALL SYSTEM**

**TOP OF PRECAST PANEL**

**PARTIAL ELEVATION PRECAST COPING**

**TOP OF C.L.P. COPING**

**TOP OF PANEL**

**TYPICAL COPING**

**TYPICAL SECTION AT COPING**

**NOTE:**

See Contract Plans For Details. On Excavation Below the Wall and Underdrain Requirements.

**TOPL = TOP OF LEVELING PAD**

**RWLOL = Retaining Wall Layout Line**

**Layout Line = Front Face of Nominal 6" Thick Panel**

**FINISH GRADE**

---

**PARTIAL ELEVATION C.L.P. COPING**

**BOTTOM OF C.I.P. COPING**

---

**PRECAST COPING DETAIL**

**THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.**

---

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**

**RETTAINING WALL SYSTEMS SSL MSE PLUS WALL SYSTEM**

**DATE: 01-01-05**

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**FINANCIAL PROJECT ID**

**STATE PROJ. NO.**

**SHEET NO.**

**INDEX NO.**

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**THE RESPONSIBILITY OF THE OWNER AND THE ENGINEER BUT NOT LIMITED TO, SLOPE AND FOUNDATION STABILITY IS THE PROJECT BID DOCUMENTS PLUS STRUCTURES ONLY. EXTERNAL STABILITY INCLUDING, THESE DRAWINGS, AS WELL AS THE DESIGN, ARE CERTIFIED WITH RESPECT TO THE INTERNAL STABILITY OF THE MSE ASSUMPTION THAT ALL MATERIALS, INCLUDING THE BACKFILL THE DESIGN OF ALL MSE PLUS WALLS IS BASED ON THE SPECIFICATIONS FOR MSE PLUS RETAINING WALLS AND METHODS OF CONSTRUCTION, CONFORM TO THE FOR THE OWNER.
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
INTERIM STANDARDS
State Structures Design Engineer
THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.

DATE: 01-01-05
INTERNATIONAL STANDARD IN ENGLISH UNITS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
INTERIM STANDARD
WILLIAM N. NICKAS, P.E.

5035
Top of Pilaster shall be finished to a true level area. Construction of the Pilaster shall meet the same requirements as that of the Parapet wall.

1. Light Pole Pilaster is designed to resist working loads (in any direction) from the light pole applied at the top of the Pilaster as follows:

2. Of those shown above. The contractor shall redesign the Pilaster and submit his design to the Department for review.

3. By a professional engineer registered in the State of Florida the contractor's redesign shall be prepared, signed and sealed by a professional engineer registered in the State of Florida qualified to perform the work.

4. The contractor is responsible for providing anchor bolts that effectively transmit the light pole loads to the Pilaster and shall be submitted by the contractor to the Department for review and approval. Calculations signed and sealed by a professional engineer registered in the State of Florida shall be submitted by the contractor to the Department for review and approval. Without these requirements having been met prior to construction, the cost of anchor bolts shall be included in the bid price for light poles.

5. Junction boxes the contractor may submit for approval molded P.V.C. boxes (Schedule 80).

6. Light poles, the cost of all labor, concrete and reinforcing steel required for the construction of the Pilasters and all conduits, expansion couplings, junction boxes and miscellaneous hardware required for completion of the electrical installation shall be within the bid price for the MSE walls.

7. Concrete Barrier

8. Conduit Details

9. Junction Box Details

10. Rebar Details

This system shall be used in slightly or moderately aggressive environments only.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

INTERIM STANDARD

SSL
MSE PLUS WALL SYSTEM

FINANCIAL PROJECT ID STATE PROJ. NO. SHEET NO.

STATE STRUCTURES DESIGN ENGINEER

DATE: 01/01/05

INTERNATIONAL STANDARD IN ENGLISH UNITS
MODIFIED TO MEET FLORIDA SPECIFICATIONS BRIEFLY PUBLISHED IN ENGLISH UNITS

5035
INTERIM STANDARD IN ENGLISH UNITS
APPLICATION TO DESIGN STANDARDS
BOOKLET PUBLISHED IN ENGLISH UNITS.

SSL
MSE PLUS WALL SYSTEM

PARTIAL ELEVATION AT LIGHT POLE

NOTES:
1. POSITIVE BOND BREAKER SHALL BE PROVIDED BETWEEN CAST IN PLACE CONCRETE AND PRECAST CONCRETE PANELS.
2. THE BARRIER JUNCTION SLAB SHALL HAVE THESE DIMENSIONS FOR ONE PRECAST UNIT EITHER SIDE OF LIGHT POLE BARRIER, UNLESS OTHERWISE INDICATED.
3. LIGHT POLE SUPPLIER IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOADS TO THE PILASTER AND FIT THE REINFORCING CAGE.
4. SEE STRUCTURES STANDARD DRAWINGS FOR ADDITIONAL DETAILS.

THE RESPONSIBILITY OF THE OWNER AND THE ENGINEER BUT NOT LIMITED TO, SLOPE AND FOUNDATION STABILITY IS THE PROJECT BID DOCUMENTS PLUS STRUCTURES ONLY. EXTERNAL STABILITY INCLUDING, THESE DRAWINGS, AS WELL AS THE DESIGN, ARE CERTIFIED WITH RESPECT TO THE INTERNAL STABILITY OF THE MSE ASSUMPTION THAT ALL MATERIALS, INCLUDING THE BACKFILL THE DESIGN OF ALL MSE PLUS WALLS IS BASED ON THE SPECIFICATIONS FOR MSE PLUS RETAINING WALLS AND METHODS OF CONSTRUCTION, CONFORM TO THE

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
INTERIM STANDARD
MSE PLUS WALL SYSTEM

DATE: 01-01-05

THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.
PARTIAL ELEVATION AT DRAINAGE INLET

PARTIAL PLAN - JUNCTION SLAB AROUND INLET

DRAINAGE INLET OBSTRUCTION DETAILS

NOTE:
4" PLASTIC SHELL SHALL BE PLACED BETWEEN MESH CONNECTED TO PANELS AND THE STRUCTURAL FRAME.
SEE END BENT AND CORNER DETAILS
2 OF 3 FOR STRUCTURAL FRAME DETAILS

SECTION C-C

THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.
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THE DESIGN OF ALL MSE PLUS RETAINING WALLS AS SHOWN. MATERIAL CONSTRUCTION JOINTS TO BE EMBEDDED IN FABRIC FILTER AS SHOWN. BEARING (REQUIRES ENGINEER'S APPROVAL). THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
STATE STRUCTURES DESIGN ENGINEER

DATE: 01-01-05

INTERNATIONAL STANDARD IN ENGLISH UNITS ADAPTED TO DESIGN STANDARDS BRIEFLY PUBLISHED IN ENGLISH UNITS
TYPE-A
SHOWN FROM BACK FACE
4'11-1/4"

TYPE-A2
SHOWN FROM BACK FACE
4'11-1/4"

TYPE-T1
SHOWN FROM BACK FACE
4'11-1/4"

TYPE-T2
SHOWN FROM BACK FACE
4'11-1/4"

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THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.
The responsibility of the owner and the engineer, but not limited to, slope and foundation stability is the project bid documents. These drawings, as well as the design, are certified with respect to the internal stability of the MSE assumption that all materials, including the backfill, the design of all MSE plus walls is based on the specifications for MSE plus retaining walls and methods of construction, conform to the state of Florida department of transportation.

**TYPE-T3**

- All panel reinforcing steel to be #4 bars.
- All dimensions shown are to front face of panel, unless otherwise noted.
- Reinforcement for partial panels to be proportional to full panels.
- All reinforcing bars are to be 2" minimum clear to the sides of the panel.
- All panels are to be properly marked on the back face as shown.
- Reinforcement labels indicate bar size and length.

**TYPE-T4**

- All panel reinforcing steel to be #4 bars.
- All dimensions shown are to front face of panel, unless otherwise noted.
- Reinforcement for partial panels to be proportional to full panels.
- All reinforcing bars are to be 2" minimum clear to the sides of the panel.
- All panels are to be properly marked on the back face as shown.
- Reinforcement labels indicate bar size and length.

**TYPE-T5**

- All panel reinforcing steel to be #4 bars.
- All dimensions shown are to front face of panel, unless otherwise noted.
- Reinforcement for partial panels to be proportional to full panels.
- All reinforcing bars are to be 2" minimum clear to the sides of the panel.
- All panels are to be properly marked on the back face as shown.
- Reinforcement labels indicate bar size and length.