GENERAL NOTES

1. The attached details are based on the assumption that the material within the reinforced volume, regardless of construction and quality of prefabricated components meet the governing agencies specification for retaining wall systems.

2. Minimum design parameters:
   - See wall control drawings for soil characteristics of foundation to be used in the design of the wall. The contractor shall provide soil design parameters for backfill material based on the actual soil characteristics recorded at the site of the exposed portion of the process and any other data provided by the engineer.
   - In the absence of the design in the soil, the design in the foundation may not exceed 0.75 gpm, and the design in the foundation may be increased by 0.05 gpm for each 10 feet of wall height above the 10-foot elevation above the bank of the soil, reinforcement element, or backfill material shall be attached to the wall face, or the top of the wall, placed at the required elevation and compacted.
   - The face of the front of the structure, before the structure height exceeds 0.75 gpm, shall be compacted to 90% of ASH80 1-80 unless otherwise directed by the engineer.

3. The minimum applied bearing pressure at the interface of the foundation and select backfill material is shown on the plans, the bearing pressure shown is the maximum for the given base mat thickness. It is the responsibility of others to determine that the bearing pressure is allowable for their load.

4. Any unstable foundation material below the reinforced volume as determined by the engineer shall be excavated and replaced with suitable material as directed by the engineer.

5. The design contained in these drawings is based on information provided by others and the designer of the structural systems is responsible for the coordination of the structural system. External stability analysis including foundation and slope stability is the responsibility of others.

WALL CONSTRUCTION

1. Walls founded on curves shall have their panels dimensioned as a series of chords (as dimensioned in shop drawings) in order to match the required wall radius.

2. For location and alignment of the wood structure reference the retaining wall control plan.

3. If manholes and drop inlets are required, they shall be located as shown on the plans.

4. If piles are located within the reinforced volume, they shall be driven prior to construction of the wall unless an alternate method is used to isolate the piles from the reinforced volume as approved by the engineer.

5. Backfill material shall be compacted in accordance with section 5 of 10980 at a level 2.5 feet above the elevation of the soil, reinforcement element, or backfill material shall be attached to the wall face, or the top of the wall, placed at the required elevation and compacted.

6. Structures greater than 20 feet shall have an impervious base placed and compacted at the front face of the structure before the structure height exceeds 0.75 gpm. The structure shall be compacted to 90% of ASH80 1-80 unless otherwise directed by the engineer.

7. It is the responsibility of the contractor to locate any guardrail posts prior to placing the top row of soil reinforcement. The posts shall be adjusted to avoid conflicts with the longitudinal soil reinforcement and the location of the longitudinal wall shall be allowed only as directed by the engineer.

8. If existing or future structures are to be placed in the reinforced volume, reference to the design in the foundation may not exceed 0.75 gpm, and the design in the foundation may be increased by 0.05 gpm for each 10 feet of wall height above the 10-foot elevation above the bank of the soil, reinforcement element, or backfill material shall be attached to the wall face, or the top of the wall, placed at the required elevation and compacted.

9. Top coping panels shall be cast in place and the top coping shall have V-100 gpm protruding from the top edge.

10. For other information pertaining to the construction of the retaining wall, please refer to tab structural systems erection manual.

MISCELLANEOUS NOTES

1. Nominal soil reinforcement grid length

   a. The required grid length shall be the length corresponding to the dimension determined by the engineer. The actual length from the front face of the panel to the toe of the soil reinforcement grid plus 20%. This accounts for the thickness of the panel and the location or the connection of the soil reinforcement grid on the foundation shall be excavated to an extent of 50% plus 20%.

   b. Select backfill quantity

   c. The required grid length is calculated by multiplying the retaining wall face area by the soil reinforcement grid length. This is the total grid length of the soil reinforcement to be installed. The quantity of grid required by the contractor is an estimate only. The contractor is ultimately responsible for determining the quantity of select backfill material that is required.

3. Panel finish

   a. The concrete panels shall have a plain steel finish unless otherwise specified on the retaining wall control plan.

4. The following materials are supplied by tab structural systems:

   a. Precast concrete facing panel

   b. Soil reinforcement grid

   c. Soil reinforcement pins

   d. V-100 diameter alignment pins

   e. 50 lb. shipping kit

4. Synthetic industries geotextile fabric

   a. Any other material required to build the relationships according to the governing specifications shall be supplied by the contractor.

5. Tab structural systems supplies mechanically stabilized earth structural components for use with the retaining wall systems. For the structures detailed herein, the erection manual provided by the contractor is a general guideline for erecting the retaining wall system.

   a. All quality control procedures, staging procedures, material handling, and safety is the responsibility of the contractor. The contractor is not held responsible for the erection of the retaining wall system. The contractor is responsible for the materials and workmanship that is provided to the retaining wall system to the governing plans and specifications and all other laws of the governing state.
A. PRECAST COPING WITH C.I.P. TRAFFIC RAILING ELEVATION

B. PRECAST COPING WITH C.I.P. TRAFFIC RAILING AND C.I.P. JUNCTION SLAB

C. TRAFFIC RAILING SLIP JOINT

D. PRECAST COPING REBAR LAYOUT

E. PRECAST COPING REBAR SCHEDULE

F. PRECAST COPING REINFORCING

**THIS SYSTEM FOR USE IN MODERATELY OR SLIGHTLY AGGRESSIVE ENVIRONMENTS ONLY**

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
T & B SQUARE PANEL

AB STRUCTURAL SYSTEMS, INC.
ENGINEERING STRUCTURES

DATE: 07-01-05

INDEX NO. 9045 SHEETS 1 - 8 OF 12 IS A SUPPLEMENTARY TO DESIGN STANDARDS BULLETIN 300289-1848

INTERNATIONAL OBSERVER UNITS TO DESIGN STANDARDS 

WILLIAM D. SMITH, P.E.

601 T O T E.

5045
PLAN @ LIGHT POLE PILASTER

1. Horizontal reinforcing not shown for clarity.

ELEVATION @ LIGHT POLE PILASTER

1. Light pole pilaster shall be finished to a true level area.
2. Top of pilaster shall be finished to a true level area.
3. Light pole pilaster is designed to resist working loads on air direction(from the light pole applied at the top of the pilaster as follows:
   - Longitudinal wind = 80 psi, 150,000 pounds
   - Transverse wind = 80 psi, 150,000 pounds
   - Longitudinal snow = 1,000 pounds
   - Transverse snow = 80 psi, 150,000 pounds
4. Contractor shall be responsible for providing anchor bolts that effectively transmit the light pole loads to the pilaster and that fit the reinforcing bars. Screws and sealed by a professional, licensed and experienced in the state of Florida, and qualified to perform the work.
5. Steel for junction boxes shall conform with AWS A3 and rods shall be hot dip galvanized after fabrication. In lieu of steel, the contractor may submit for approval molded junction boxes approved by the contractor and approved by the Florida Department of Transportation. The use of steel or molded junction boxes shall relieve the contractor of liability for failure of any steel to be included in the contractor’s bid price for the work.
6. All components shall be hot dip galvanized or be equivalent.
7. The cost of anchor bolts shall be included in the bid price for light poles.
8. Contractor is responsible for providing anchor bolts that effectively transmit the light pole loads to the pilaster and that fit the reinforcing bars. Screws and sealed by a professional, licensed and experienced in the state of Florida, and qualified to perform the work.

SECTION @ LIGHT POLE PILASTER

A B STRUCTURAL SYSTEMS, INC
ENGINEERED STRUCTURES
9090 W. MICHIGAN ST., #210
TAMPA, FL 33614
(813) 960-5556

DATE: 07-01-05

RETAINING WALL SYSTEM
T & B SQUARE PANEL

INTERIM STANDARD
SUMMARY PUBLISHED IN ENGLISH UNITS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

**THIS SYSTEM FOR USE IN MODERATELY OR SLIGHTLY AGGRESSIVE ENVIRONMENTS ONLY**
**SECTION C.L.P. PARAPET COPING**

1.1. **HORIZONTAL REINFORCEMENT NOT SHOWN FOR CLARITY**

- **SLOPE WITH T.O.M.**
- **SLOPE WITH COPING**
- **5" MIN**
- **5" MAX**
- **3/4" DOWEL TOP OF PANEL (TRIM TO PROVIDE 2" COVER)**
- **TOP OF PANEL**
- **2" CLEAR**
- **5" MIN**
- **5" MAX**
- **2" CLEAR**
- **2" DOWEL**
- **FRONT FACE OF WALL**

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**SECTION C.L.P. PARAPET COPING WITH PEDESTRIAN RAILING**

- **CONCRETE BARRIER WALL (SEE INDEX NO. 400)**
- **HANDRAIL**
- **TOP OF CONCRETE PARAPET (SEE STRUCTURES INDEX NO. 800)**
- **SOIL REINFORCEMENT**
- **2" DOWEL AT 2'-6" O.C.**
- **FACE OF COPING**
- **BAR 6 J AT 5'-1/2" O.C.**
- **CONVERTIBLE GUTTER**
- **FACE OF WALL**

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**C.L.P. PARAPET COPING REINFORCING DETAILS**

- **PEDESTRIAN RAILING (SEE STRUCTURES INDEX NO. 800)**
- **CONCRETE BARRIER WALL (SEE INDEX NO. 400)**
- **EXPANSION JOINT (NOT TO BE FILLED WITH EXPANSION SEAL)**
- **2'-6" DOWEL**
- **2'-6" DOWEL**

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**JUNCTION BOX DETAILS FOR LIGHT PILASTER**

- **CONCRETE SURFACE**
- **TOP" FREEBOARD GASKET (IESA)**
- **2" CONDUIT HUB (IESA)**
- **CONCRETE SURFACE**

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**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL SYSTEM T & B SQUARE PANEL**

- **DATE: 07-01-05**
- **INTERIM STANDARD IN ENGLISH UNITS**
- **INTERIM TRANSITIONAL BENCHMARK ENGLISH UNITS**

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**A.B. STRATEGIC SYSTEMS, INC.**

**ENGINEERED STRUCTURES**

**T & B SPECIALTY PRODUCTS, INC.**

**WILLIAM R. DAVIS, P.E.**

**INDEX NO. 5045 SHEETS 1-5 OF 15 IS A REISSUE TO THE INTERIM REVISION STANDARDS BENCHMARK DATED JANUARY 2013.**

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