GENERAL NOTES

DESIGN CRITERIA

1. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH WALLS, METHOD OF CONSTRUCTION AND QUALITY OF PRECASTED MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY’S SPECIFICATIONS FOR RETAINED EARTH WALLS.

2. AGENCIES OF SAFETY

- Negative Slope
- Stability
- Slope Stability
- Soil Stability
- Soil Reinforcement

3. SOIL CHARACTERISTICS ASSUMED FOR DESIGN

- See Wall Design, Drawings for Soil Characteristics of Foundation Material to be Used in Design of the Wall System. The Contractor shall provide soil parameters for backfill material based on actual soil characteristics utilized at the site. The values of B, C and A shall be provided to the Engineer.

4. THE MAXIMUM AVERAGE BORE pressure at the Foundation level is 50 psi, as shown on the Wall Elevations for each design case, and is the responsibility of others to determine that this applied bore pressure is allowable for that location.

5. ANY EXISTING FOUNDATION MATERIAL SCRUB REINFORCED EARTH WALL, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUBSTITUTE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

REINFORCING ELEMENTS

6. REINFORCING WIRE ELEMENTS SHALL BE FABRICATED FROM COLD DRAWN STEEL FOR CONFORMING TO THE MINIMUM REQUIREMENTS OF ASTM A-615 AND SHALL BE FIXED AT THE JUNCTIONS BETWEEN CONTINUOUS AND TRANSFERRED WIRE AND WALLS IN ACCORDANCE WITH ASTM A-615. WIRE ASSEMBLY SHALL BE ATTACHED TO WALLS AND SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-615.

7. TOP PANELS EMBOSSED SHALL BE FABRICATED FROM COLD DRAWN STEEL AND CONFORMING TO THE MINIMUM REQUIREMENTS OF ASTM A-615. EMBOSSED WALLS SHALL BE EMBOSSED IN ACCORDANCE WITH ASTM A-615. EMBOSSED WALLS SHALL BE EMBOSSED IN ACCORDANCE WITH ASTM A-615.

8. THE CONTRACTOR IS RESPONSIBLE FOR READILY DEFLATING UPEP THROUGHOUT THE WALL’s EMBOSSED WALLS TO AVOID CONFLICTS WITH PASSING AND SUBSEQUENT ENTRAPMENT, THE CONTRACTOR’S ATTENTION IS DIRECTED ESPECIALLY TO SITUATIONS WHERE ROOMS SUPER ELEVATION AND/OR SOIL WINDS ARE INCREASED.

MATERIALS USED

1. NOMINAL MESH LENGTHS

- The reinforcing mesh length shown on the wall panels is the wall mesh length provided by the manufacturer. The wall mesh length shall be determined by the engineer and shall be provided to the contractor in writing.

2. RETAINED EARTH WALL BORING QUANTITY

- The retained earth wall boring quantity is calculated by multiplying the wall mesh length by the area of the wall face and the wall height. The wall boring quantity is calculated for the specific conditions of the project.

3. PANEL FINISH

- The panels for this project shall be a plain steel finish unless otherwise specified by the retained earth control plans.

4. NOTE TO CONTRACTORS

- The following materials are supplied by Foster Geotechnical:

    - Panels
    - Reinforcing Wire
    - Panel Edges
    - Backfill Material
    - Retained Earth Control Plan
    - Construction Plans
    - All Other Materials Used by the Contractor

- ANY OTHER MATERIALS FOR THE CONTRACTOR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR AND SHALL CONFORM TO THE CONTRACTING AGENCY'S SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL OTHER MATERIALS TO BE SUPPLIED BY THE CONTRACTOR AND SHALL CONFORM TO THE CONTRACTING AGENCY'S SPECIFICATIONS.

5. retaining WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL

- This system shall be used in moderately or slightly aggressive environments only.
THE FOSTER GEOTECHNICAL SQUARE PANEL SYSTEM PROVIDES 3-1/2 TO 6 VERTICAL SLIP JOINTS EVERY 5'-0" TO ACCOMMODATE DIFFERENT VERTICAL MOVEMENTS BETWEEN INDIVIDUAL PANELS, COLUMNS, 

### PARTIAL ELEVATION C.J.P. COPING

ISOLATE PANELS SHOWN, HEX PANELS SIMILAR

### 1A VERTICAL COPING (C.J.P.)

ISOLATE PANELS SHOWN, HEX PANELS SIMILAR

### 13A VERTICAL COPING (C.J.P.) SECTION

ISOLATE PANELS SHOWN, HEX PANELS SIMILAR

### 15 COPING ENCLOSURE (C.J.P.)

ISOLATE PANELS SHOWN, HEX PANELS SIMILAR

### 19A TYPE H PRECAST COPING

ISOLATE PANELS SHOWN, HEX PANELS SIMILAR

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
RETAILING WALL SYSTEM
FOSTER GEOTECHNICAL RETAINED EARTH WALL

DRAFT DATE: 11/19/98
DRAWN BY: CAC 11/19/98
CHECKED BY:iedo 11/19/98
APPROVED BY: TZA 11/19/98

5005
VERTICAL OBSTRUCTION NOTES

Obstruction shall be constructed before wall installation.

Field cut and show mesh around obstruction as required. These areas will be cleaned and noted on Job drawings and approved by the Engineer of Record.

Cut mesh/reamed by 10 shall be coated with zinc-rich paint.

No cutting of soil reinforcement grids allowed unless shown on shop drawings and approved by the Engineer.

65 PARTIAL ELEVATION WALL & DRAINAGE INLET

66 PARTIAL PLAN - JUNCTION SLAB AROUND INLET (RESERV NOT SUPPLIED BY FOSTER GEOTECHNICAL)

67 OBSTRUCTION DETAIL (VERTICAL)

Inlets @ 5'-0" (Typ)

68 OBSTRUCTION (HORIZONTAL)

15 DEGREES MAX BEND

69 CONNECTOR INSTALLATION DETAIL (SECTION 6-6)

SQUARE / HEX PANELS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM

FOSTER GEOTECHNICAL RETAINED EARTH WALL

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24A PLAN VIEW - PRECAST TRAFFIC BARRIER
(HORIZONTAL JOINTS IN JUNCTION SLAB & 40 SHEAR DOWELS, NOT SHOWN)

ALL Joints in Precast Barrier shall be filled with a High-Fracture Grade or Backing Rod or Bonded with Silicone Sealant. Materials of Contractor.

24B PARTIAL ELEVATION PRECAST BARRIER

SQUARE / HEX PANELS

STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION
RETAINING WALL SYSTEM
FOSTER GEOFTECHNICAL RETAINED EARTH WALL

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U.S. PATENT NO. 4,440,042
CAST IN PLACE LIGHT POLE

SECTION A-A
(SEE STRUCTURES STANDARD DRAWING 500 FOR ADDITIONAL DETAILS)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
RETAINING WALL SYSTEM
FOSTER GEOENGINEERING RETAINED EARTH WALL

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C.I.P. BARRIER W/ COPING & JUNCTION SLAB STEEL

- PROVIDE A POSITIVE BOND BREAKER BETWEEN C.I.P. CONCRETE AND PRECAST PANELS.
- ONE PANEL JOINT TO BE PLACED EVERY SIXTH PANEL JOINT.
- USE STRUCTURES STANDARD EXPANSION JOINTS FOR ADDITIONAL JOINTS AND DETAILS.

C.I.P. PARAPET DETAIL W/ HANDRAIL

- 2" CL (1775) 1/2" PRECRUSHED EXPANSION JOINT MATERIAL SEAL TOP WITH 3/4" PRESSED NUMBERS
- 1/2" SQUARE / HEX PANELS