

PLAN VIEW AT END BENT

5 TYPICAL LEVELING PAD STEPS (BACK FACE SHOWN)

80A PARTIAL ELEVATION C.J.P. BARRIER OVER SLIP JOINT

SQUARE PANELS

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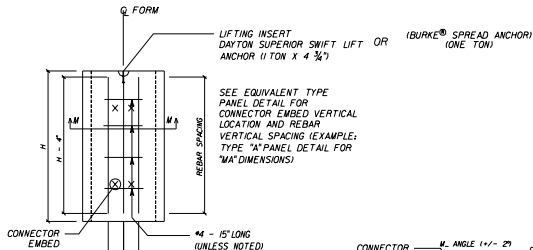
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
ROAD DESIGN

RETAINING WALL SYSTEM  
FOSTER GEOTECHNICAL RETAINED  
EARTH WALL

Revised By	Date	Approved By	Date
Designed By	TCWA 11/98	WJZ	11/98
Drawn By	CAD 11/98		
Checked By	GED 11/98		
	00		
			7 of 12
			5005

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LIFTING INSERT  
DAYTON SUPERIOR SWIFT LIFT OR  
ANCHOR (1 TON X 4 3/4')

(BURKE® SPREAD ANCHOR)  
(ONE TON)

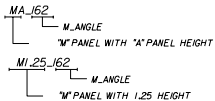
SEE EQUIVALENT TYPE  
PANEL DETAIL FOR  
CONNECTOR EMBED VERTICAL  
LOCATION AND REBAR  
VERTICAL SPACING (EXAMPLE:  
TYPE "A" PANEL DETAIL FOR  
"MA" DIMENSIONS)

(TYP.) (TYP.)

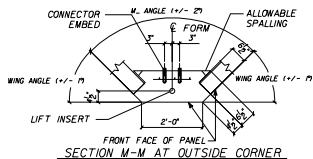
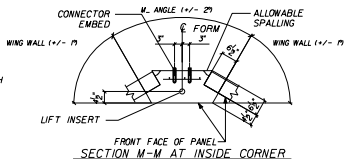
TYPE M REBAR

TYPE M REBAR  
"M" PANELS SHALL HAVE A PLAIN SURFACE FINISH

PANEL AREAS	
PANEL NAME	SQ. FT.
MA	13.75
MD	11.46
MD2	9.17
MC2	6.55
MD4	4.58
MB6	10.31
MB2	6.88
MB4	3.44

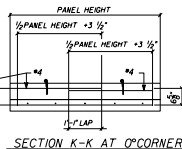
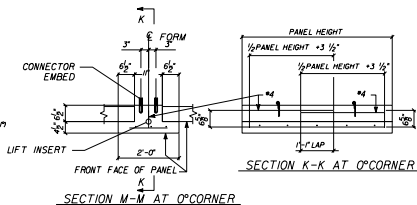


TYPICAL PANEL DESIGNATION



PANEL REINFORCEMENT NOTES:

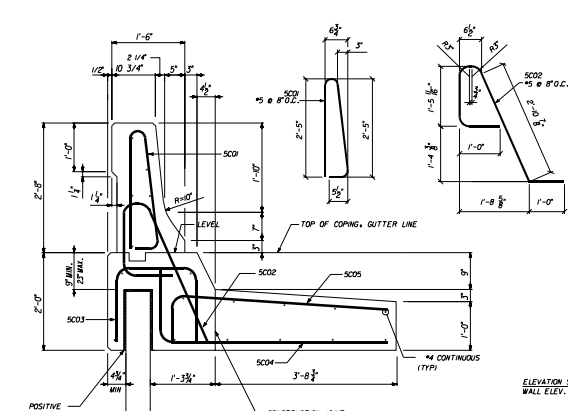
1. PANELS ARE SHOWN BACK FACE.
2. RIGHT END PANELS ARE OPPOSITE TO LEFT END.
3. DIMENSIONS ARE TO FORM INSIDE BACK FACE.
4. VERTICAL REINFORCEMENT SHALL HAVE 2" MINIMUM COVER TO THE BACK FACE.
5. HORIZONTAL REINFORCEMENT SHALL HAVE 1/2" MINIMUM COVER TO THE BACK FACE.
6. ALL REINFORCEMENT SHALL HAVE 2" MINIMUM COVER TO THE SIDES.
7. REINFORCEMENT LABELS INDICATE BAR SIZE AND LENGTH. EXAMPLE: #54 IS A #4 BAR 54" LONG.
8. REINFORCEMENT SHALL BE GRADE 60.
9. EQUIVALENT WELDED WIRE FABRIC MAY BE USED.
10. SEE RETAINED EARTH™ PRECASTING SPECIFICATIONS FOR CONCRETE REQUIREMENTS.
11. VSL RETAINED EARTH™ IS PROTECTED UNDER PATENT #4,725,170.
12. ALL PANELS TO USE .276" Ø CLEVIS LOOPS, EXCEPT PANELS WITH A "Q" SUFFIX WHICH REQUIRE .374" Ø CLEVIS LOOPS.
13. ALL "M" PANEL (CORNER ELEMENTS) SHALL HAVE A PLAIN FINISH.



SQUARE / HEX PANELS

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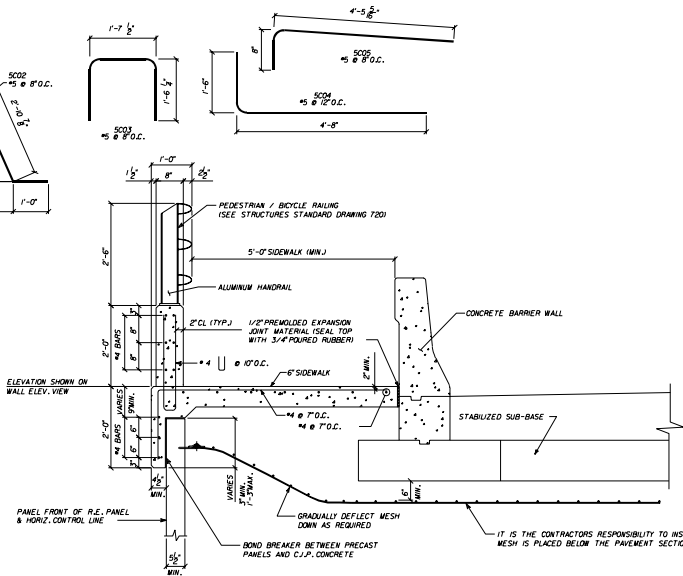
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN			
RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL			
Drawn By	TCNA 11/98	Checked By	WJ/2/98
Designed By	CAD 11/98	Scale	AS SHOWN
Checked By	GEO 11/98	Date	9 of 12 5005



- NOTES:
1. PROVIDE A POSITIVE BOND BREAKER BETWEEN C.J.P. CONCRETE AND PRECAST PANELS.
  2. ONE HALF INCH (1/2") JOINT TO BE PLACED EVERY SIXTH PANEL JOINT.
  3. SEE STRUCTURES STANDARD DRAWING T00 FOR ADDITIONAL T00 AND DETAILS.

POSITIVE BOND BREAKER  
PANEL FRONT FACE

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



### C.I.P. PARAPET DETAIL W/ HANDRAIL

6B

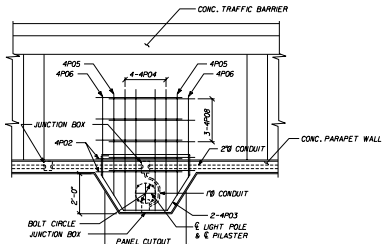
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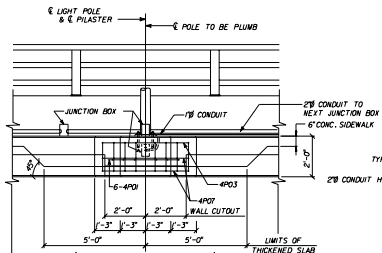
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
ROAD DESIGN

RETAINING WALL SYSTEM  
FOSTER GEOTECHNICAL RETAINED  
EARTH WALL

Designed By	TCH	4/96	Approved By	<i>[Signature]</i>
Drawn By	CAD	4/96	Checkered By	4/96
Checked By	GED	4/96	00	10 of 12
				5005



1 PLAN



3 LIGHT PILASTER ELEVATION

NOTES:

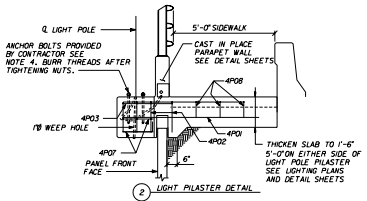
1. ADDITIONAL CONCRETE AND REINFORCING STEEL REQUIRED FOR THE CONSTRUCTION OF THE PILASTER SHALL MEET THE SAME REQUIREMENTS AS THAT OF THE PARAPET WALL.
2. TOP OF PILASTER SHALL BE FINISHED TO A TRUE LEVEL AREA.
3. LIGHT POLE PILASTER IS DESIGNED TO RESIST WORKING LOADS IN ANY DIRECTION FROM THE LIGHT POLE ANCHOR AT THE TOP OF THE PILASTER AS FOLLOWS:

LONGITUDINAL MOMENT = 30,000 FT. POUNDS  
 TRANSVERSE MOMENT = 6,000 FT. POUNDS  
 LONGITUDINAL SHEAR = 14,000 POUNDS  
 TRANSVERSE SHEAR = 200 POUNDS  
 TORSION = 3,000 FT. POUNDS  
 AXIAL = 400 POUNDS

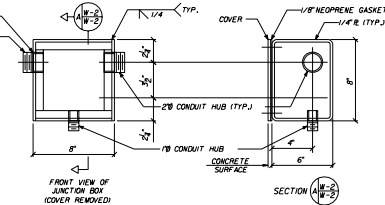
IF THE LIGHT POLE PROVIDED APPLIES LOADS THAT ARE IN EXCESS OF THOSE SHOWN ABOVE, THE CONTRACTOR SHALL REDESIGN THE PILASTER AND SUBMIT HIS DESIGN TO THE DEPARTMENT FOR REVIEW. THE CONTRACTOR'S REDESIGN SHALL BE PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, AND 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 THAT FIT THE REINFORCING CASE. 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, SHOWING THAT THESE REQUIREMENTS HAVE BEEN MET PRIOR TO CONSTRUCTION.

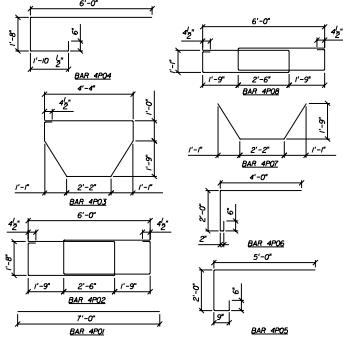
5. STEEL FOR JUNCTION BOXES SHALL CONFORM WITH ASTM-A36. THE BOXES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. IN USE OF STEEL BOXES THE CONTRACTOR MAY SUBMIT FOR APPROVAL WELDED P.V.C. BOXES (SCHEDULE 80).
6. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE 80 P.V.C.
7. THE COST OF ANCHOR BOLTS SHALL BE INCLUDED IN THE BID PRICE FOR LIGHT POLES.
8. PAYMENT: THE COST OF ALL LABOR, CONCRETE AND REINFORCING STEEL REQUIRED FOR THE CONSTRUCTION OF THE PILASTERS AND ALL CONDUITS, EXPANSION COUPLERS, JUNCTION BOXES AND MISCELLANEOUS HARDWARE REQUIRED FOR COMPLETION OF THE ELECTRICAL INSTALLATION WITHIN THE LIMITS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR THE MSE WALLS.



2 LIGHT PILASTER DETAIL



SECTION (A-B)



MARK	SIZE	NO. REQ'D	LENGTH
4P01	#4	6	7'-0"
4P02	#4	2	24'-0"
4P03	#4	1	13'-7"
4P04	#4	4	10'-0" TO 12'
4P05	#4	2	8'-3"
4P06	#4	2	8'-0"
4P07	#4	2	6'-0"
4P08	#4	3	22'-1"

4 BAR BENDING DETAIL

SQUARE / HEX PANELS

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 ROAD DESIGN

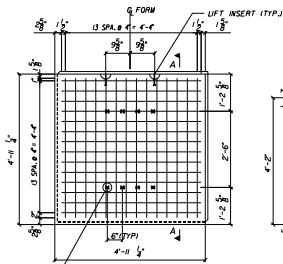
RETAINING WALL SYSTEM  
 FOSTER GEOTECHNICAL RETAINED  
 EARTH WALL

Approved By: *[Signature]*

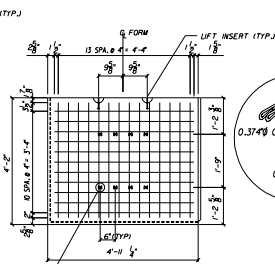
Designed by: TCWA 11/98  
 Drawn by: CAD 11/98  
 Checked by: GED 11/98

11 of 12  
 5005

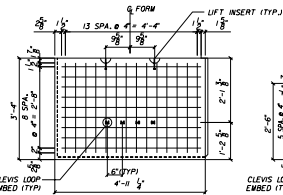
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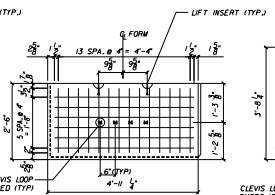
CLEVIS LOOP EMBED (TYP.)  
**A TYPE A REINFORCING**  
(AREA = 25.0 SQ.F.T.)



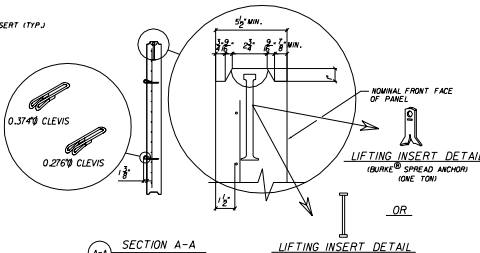
CLEVIS LOOP EMBED (TYP.)  
**D TYPE D REINFORCING**  
(AREA = 20.83 SQ.F.T.)



CLEVIS LOOP EMBED (TYP.)  
**D2 TYPE D2 REINFORCING**  
(AREA = 16.67 SQ.F.T.)

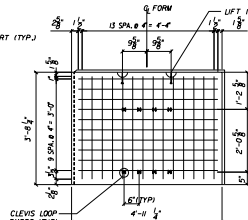


CLEVIS LOOP EMBED (TYP.)  
**C2 TYPE C2 REINFORCING**  
(AREA = 12.50 SQ.F.T.)

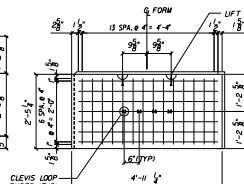


**A-A SECTION A-A**

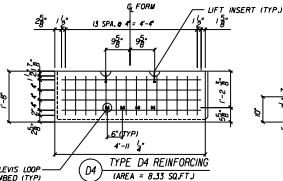
**LIFTING INSERT DETAIL**  
(DAYTON SUPERIOR SHIF LIFT ANCHOR)  
(1 TON X 4 3/4\"/>



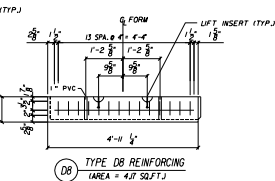
CLEVIS LOOP EMBED (TYP.)  
**B6 TYPE B6 REINFORCING**  
(AREA = 18.75 SQ.F.T.)



CLEVIS LOOP EMBED (TYP.)  
**B2 TYPE B2 REINFORCING**  
(AREA = 12.50 SQ.F.T.)

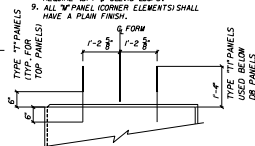


CLEVIS LOOP EMBED (TYP.)  
**D4 TYPE D4 REINFORCING**  
(AREA = 8.33 SQ.F.T.)

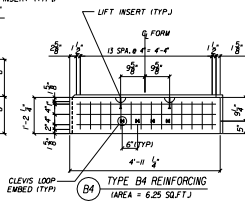


CLEVIS LOOP EMBED (TYP.)  
**D8 TYPE D8 REINFORCING**  
(AREA = 4.17 SQ.F.T.)

- PANEL REINFORCEMENT NOTES:**
1. PANELS ARE SHOWN BACK FACE.
  2. RIGHT END PANELS ARE OPPOSITE TO LEFT END.
  3. DIMENSIONS ARE TO FORM INSIDE BACK FACE.
  4. ALL REINFORCEMENT SHALL HAVE 1/2\"/>



**T TYPE T REINFORCING**  
TYPE T PANELS TO HAVE 2-#4x12\"/>



CLEVIS LOOP EMBED (TYP.)  
**B4 TYPE B4 REINFORCING**  
(AREA = 6.25 SQ.F.T.)

SQUARE PANELS

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ROAD DESIGN

RETAINING WALL SYSTEM  
FOSTER GEOTECHNICAL RETAINED  
EARTH WALL

Revised	Drawn	Approved By
Developed by TOM #198	Checked by CAD #198	<i>W. J. [Signature]</i>
Drawn by CAD #198	Checked by GED #198	DATE SUBMITTED FOR DESIGN 00 12 OF 12
		REVISION NO. 5005