# The Reinforced Earth Company

1660 Hotel Circle N. – Suite 304, San Diego, California 92108 (619) 688-2400

## GENERAL NOTES

### DESIGN CRITERIA

1. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR REINFORCED EARTH WALLS.

2. SOILS CHARACTERISTICS ASSUMED FOR DESIGN:

   SELECT BACKFILL
   $\phi$ = 40 degrees, c = 0 p.s.f., $\gamma$ = 135 p.c.f.

   RANDOM BACKFILL
   $\phi$ = 30 degrees, c = 0 p.s.f., $\gamma$ = 135 p.c.f.

   FOUNDATION MATERIAL *
   $\phi$ = 30 degrees, c = 0 p.s.f.

   SEISMIC DESIGN CRITERIA
   $A_0$ = 0.62g WITHIN 50'-0" OF BRIDGE ABUTMENTS, 0.24g OTHERWISE.

3. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE. IT IS THE RESPONSIBILITY OF THE OWNER TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.

4. ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED EARTH VOLUME, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

5. REINFORCING STRIPS SHALL BE 50mm (2") WIDE AND 4mm (3/16") AND SHALL CONFORM TO THE PHYSICAL AND MECHANICAL PROPERTIES OR ASTM A-572 GRADE 65. GALVANIZATION SHALL BE APPLIED IN ACCORDANCE WITH ASTM A-123 OR AASHTO M111 (2oz/ft$^2$).

### WALL CONSTRUCTION

6. STATIONS ARE SHOWN ALONG FRONT FACE OF WALL.

7. REINFORCED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 9.84' EACH TO MATCH DESIRED WALL ALIGNMENT.

8. FOR LOCATION AND ALIGNMENT OF REINFORCED EARTH WALLS. SEE CONTRACT DRAWINGS.

9. IF MANHOLES AND DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.

10. IF PILES ARE LOCATED WITHIN THE REINFORCED EARTH VOLUME, THEY SHALL BE DRIVEN PRIOR TO CONSTRUCTION OF THE REINFORCED EARTH WALL UNLESS A METHOD TO PROTECT THE STRUCTURE, WHICH IS ACCEPTABLE TO THE ENGINEER AND THE REINFORCED EARTH COMPANY, AND IS PROPOSED AND APPROVED IN WRITING.

11. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR REINFORCED EARTH WALLS TO A LEVEL OF 2" (±) ABOVE THE TIE STRIPS EMBEDDED IN THE PANELS. INSTALLATION OF REINFORCING STRIPS SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.

12. COMPACTION AND OPERATION EQUIPMENT SHALL BE KEPT A MINIMUM DISTANCE OF 3'-0" FROM THE BACK FACE OF THE REINFORCED EARTH PANELS. COMPACTION WITHIN 3'-0" OF THE REINFORCED EARTH PANELS SHALL BE ACHIEVED WITH AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER, ROLLER OR VIBRATORY SYSTEM. NO COMPACTION DENSITY TESTS SHALL BE TAKEN WITHIN THE 3 FT. ZONE.

### WALL CONSTRUCTION (CONT.)

13. IF STRUCTURES IN EXCESS OF 20' IN HEIGHT OCCUR, THE FINISHED GRADE IN FRONT OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS A HEIGHT OF 20'. FINISHED GRADE BACKFILL SHALL BE COMPACTED TO 95% OF ASTM D-698, METHODS 'C' OR 'D', UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE REINFORCED EARTH PANELS. PRIOR TO PLACEMENT OF THE TOP LAYER OF REINFORCING STRIPS, INDIVIDUAL STRIPS MAY BE SKEWED TO AVOID THE POST LOCATIONS IF AUTHORIZED BY THE REINFORCED EARTH COMPANY. ANY DAMAGE DONE TO THE REINFORCING STRIPS DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

15. IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL POSTS WHICH ARE WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING STRIPS AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE REINFORCED EARTH COMPANY TO DETERMINE WHAT COURSE OF ACTION SHOULD BE TAKEN.

16. ALL DETAILING AND CHECKING OF REINFORCING STEEL FOR ANY C.I.P. CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

17. N/A

18. FOR OTHER INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE REFER TO THE REINFORCED EARTH CONSTRUCTION MANUAL.

19. THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER REINFORCING STRIPS DOWNWARD TO AVOID CONFLICTS WITH PAVING AND SUBGRADE PREPARATION. THE CONTRACTOR'S ATTENTION IS DIRECTED ESPECIALLY TO SITUATIONS WHERE ROADWAY SUPERELEVATION AND/OR SOIL MIXING ARE ANTICIPATED.

20. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER DRAINAGE IN THE VICINITY OF THE WALL DURING CONSTRUCTION. STORM WATER RUNOFF IS TO BE COLLECTED AND DISCHARGED AWAY FROM THE WALL AND REINFORCED BACKFILL.

### MATERIALS NOTES

21. NOMINAL STRIP LENGTHS

    THE REINFORCING STRIP LENGTHS SHOWN ON THE PLANS, MEASURED FROM BACK FACE OF PANEL, ARE THE NOMINAL LENGTHS REQUIRED BY CALCULATION. THE ACTUAL FABRICATED STRIP LENGTHS ARE OFTEN LONGER (UP TO 6") DUE TO MANUFACTURING TOLERANCES. THE REQUIRED HORIZONTAL LIMIT OF GRANULAR BACKFILL IS EQUAL TO THE NOMINAL STRIP LENGTH. ADDITIONAL GRANULAR BACKFILL BEYOND THE NOMINAL STRIP LENGTH IS NOT REQUIRED BY CALCULATION.

22. SELECT BACKFILL QUANTITY

    THE SELECT BACKFILL QUANTITY, IF INDICATED BY THE REINFORCED EARTH COMPANY, IS CALCULATED BY MULTIPLYING THE NOMINAL STRIP LENGTHS SHOWN ON THE PLANS (PLUS 0 FT.) BY THEIR TRIBUTARY WALL SURFACE AREA AND CONVERTING THE RESULT TO A NEATLINE CUBIC YARD QUANTITY. THIS INFORMATION IS FURNISHED FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT INTENDED TO REPRESENT THE ACTUAL QUANTITIES REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR MUST CALCULATE HIS OWN EXCAVATION AND BACKFILL QUANTITIES BASED UPON THE SPECIFIC CONDITIONS OF THE PROJECT.

### MATERIALS NOTES (CONT.)

23. PANEL FINISH

    THE PRECAST PANELS FOR THIS PROJECT SHALL HAVE ASLAR ARC FINISH (MILESTONE #6001) WITH THE EXCEPTION OF SLIP JOINTS AND CORNER ELEMENTS, WHICH SHALL HAVE A PLAIN STEEL FORM FINISH. THIS FINISH IS THE SAME USED ON THE ORIGINAL LEGACY PARKWAY PROJECT BY FAK- FLOUR/AMES/KRAMER.

24. NOTE TO CONTRACTORS

    ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY THE REINFORCED EARTH COMPANY:

    - PRECAST CONCRETE FACING PANELS
    - REINFORCING STRIPS
    - BOLT SETS (FOR ATTACHING THE REINFORCING STRIPS TO PANELS)
    - BEARING PADS
    - RUBBER SHIMS
    - FILTER CLOTH AND ADHESIVE (FOR PANEL JOINTS ONLY)

    ANY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR. ANY JOINT MATERIALS SHOWN AT THE INTERFACE OF PRECAST PANELS AND CAST-IN-PLACE CONCRETE STRUCTURES ARE TO BE SUPPLIED BY THE ERECTION CONTRACTOR. ALL SANDBLASTING, PAINTING, SEALERS OR OTHER SPECIAL APPLIED COATINGS ARE ALSO SUPPLIED/INSTALLED BY THE CONTRACTOR IN THE FIELD FOLLOWING PANEL ERECTION.

25. THE REINFORCED EARTH COMPANY SUPPLIES PRECAST CONCRETE FACING PANELS AND ACCESSORIES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE CONSTRUCTION OF THE REINFORCED EARTH® RETAINING WALLS DETAILED HEREIN. THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL FURNISHED BY THE REINFORCED EARTH COMPANY IS INTENDED TO PROVIDE A GENERAL EXPLANATION OF THE SYSTEM. IT IS THE CONTRACTOR'S OBLIGATION TO DEVISE AND EXECUTE A PROJECT SPECIFIC ERECTION SEQUENCE, PANEL UNLOADING, HANDLING AND BRACING SYSTEM, AND FALL PROTECTION SYSTEM. THE BRACING SYSTEM SHOWN IN THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL IS GENERAL IN NATURE AND DOES NOT ACCOUNT FOR PROJECT SPECIFIC CRITERIA. COMPLIANCE WITH THE GUIDELINES IN THIS MANUAL DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY TO ADHERE TO THE PROJECT PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS OR COMPLIANCE WITH ALL FALL PROTECTION, SAFETY, LAWS, STANDARDS AND PROCEDURES AT THE JOBSITE. CONTRACTORS SHOULD TAKE SPECIAL PRECAUTIONS TO PREVENT THE PANELS FROM SHIFTING OR FALLING DURING THE ERECTION PROCESS.

| INDEX | |
|---|---|
| SHEET NO. | CONTENTS |
| 1 | GENERAL NOTES & INDEX |
| 2 | WALL R-484 B – ELEVATION |
| 3 | TYPICAL SECTIONS & DETAILS |
| 4 | STANDARD DETAILS |
| 5 | STANDARD PANEL DETAILS |
| | |

* WALL B DESIGN PARAMETERS FOR FOUNDATION MATERIAL HAVE BEEN MODIFIED. GEOTECHNICAL ENGINEER TO VERIFY THAT THESES PARAMETERS ARE ADEQUATE FOR MSE WALL DESIGN.

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY

LICENSED PROFESSIONAL ENGINEER
No. 5269356
FRANSISCUS S. HARDJANTO
STATE OF UTAH
7/10/07

THIS SUBMITTAL INCLUDES WALL R-484B ONLY – SINGLE STAGE WALL

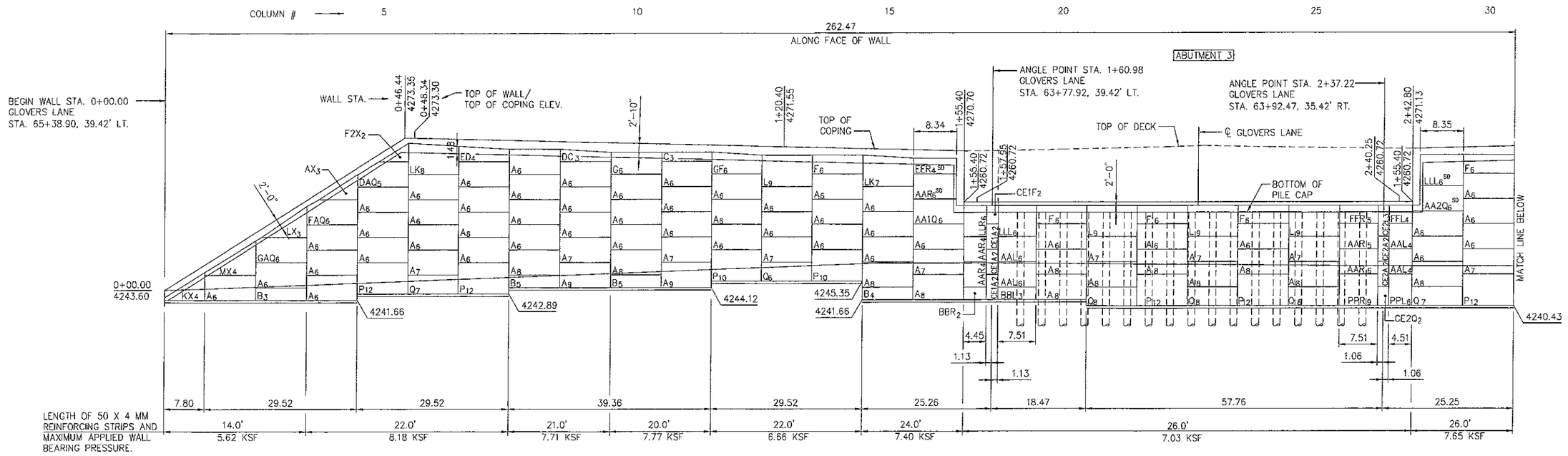


The design contained on these drawings is based on information provided by the owner. On the basis of this information, The Reinforced Earth Company has designed, and is responsible for the internal stability of the structure only. External stability, including foundation (bearing capacity and settlement) and slope stability (sliding and rotation), is the responsibility of the owner.

The Reinforced Earth Company
1660 Hotel Circle N. – Suite 304, San Diego, California 92108 (619) 688-2400

"REINFORCED EARTH" is the registered trademark of The Reinforced Earth Company.

| | | | | | | |
|---|---|---|---|---|---|---|
| DESIGNED BY: JKI | | | | PROJECT NAME | REINFORCED EARTH RETAINING WALLS LEGACY PARKWAY – SEGMENT 3 | DATE 07/10/07 |
| PROJECT ENGR: JLC | | | | LOCATION | CENTERVILLE/FARMINGTON, UTAH SALT LAKE & DAVIS COUNTIES | CONTRACT NO. RE-12527 |
| CHECKED BY: FSH/ML | | | | OWNER | UTAH DOT | DRAWING NO. 1 OF 5 |
| ENG. MANAGER FSH | REV. | DATE | DESCRIPTION | DRAWING COVERS | GENERAL NOTES AND INDEX | SCALE AS SHOWN |




# ELEVATION – FRONT FACE – WALL B

SCALE : 1" = 20'

NOTES:
1- THE AMOUNT OF PANEL EMBEDMENT INTO THE CIP HORIZONTAL COPING IS BASED ON THE AMOUNT OF ANTICIPATED SETTLEMENT AT THE FACE OF THE MSE WALL, WHICH WAS PROVIDED BY FIGURE E-4 IN "GEOTECHNICAL INVESTIGATION FOR ROADWAY EMBANKMENTS AND RETAINING WALLS, LEGACY PARKWAY I-215 TO US 89" BY KLEINFELDER, DATED 09/27/2006. TOP PANELS MAY NEED TO BE FIELD CUT IF SETTLEMENT IS LESS THAN ANTICIPATED.

2- LENGTH OF LEVELING PAD IS BASED ON INDIVIDUAL PANEL WIDTHS. ℄ OF PANEL JOINT TO ℄ OF PANEL JOINT. USE TYPICAL LEVELING PAD STEP DETAIL ON SHEET 4 TO DETERMINE ACTUAL LEVELING PAD STEP LOCATION.

3- MINIMUM BOTTOM OF WALL EMBEDMENT IS INDICATED ON THE CONTRACT DRAWINGS. BOTTOM OF WALL EMBEDMENT MEETS OR EXCEEDS BOTTOM OF WALL EMBEDMENT SHOWN ON CONTRACT PLANS.

4- EXTERNAL STABILITY, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER OR ITS GEOTECHNICAL ENGINEER OF RECORD.

5- WALL STATIONS SHOWN ALONG NOMINAL FRONT FACE OF MSE PANELS.

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CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY

LICENSED PROFESSIONAL ENGINEER
No. 5269356
FRANSISCUS S. HARDIANTO
STATE OF UTAH
7/10/07



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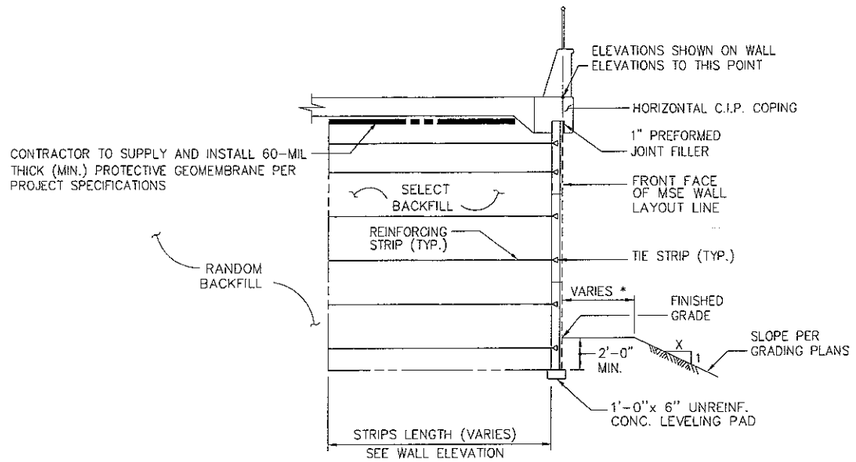
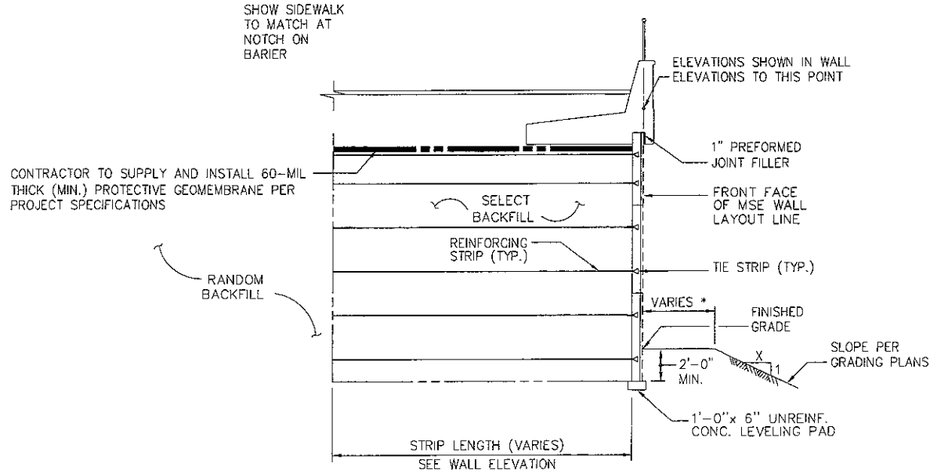
| CHECKED BY: FSH/ML | | | | OWNER | UTAH DOT | DRAWING NO. 2 OF 5 |
| ENG. MANAGER FSH | REV. | DATE | DESCRIPTION | DRAWING COVERS | WALL R484 B – ELEVATION | SCALE AS SHOWN |




## MSE WALL B – TYPICAL SECTION@ APPROACH SLAB

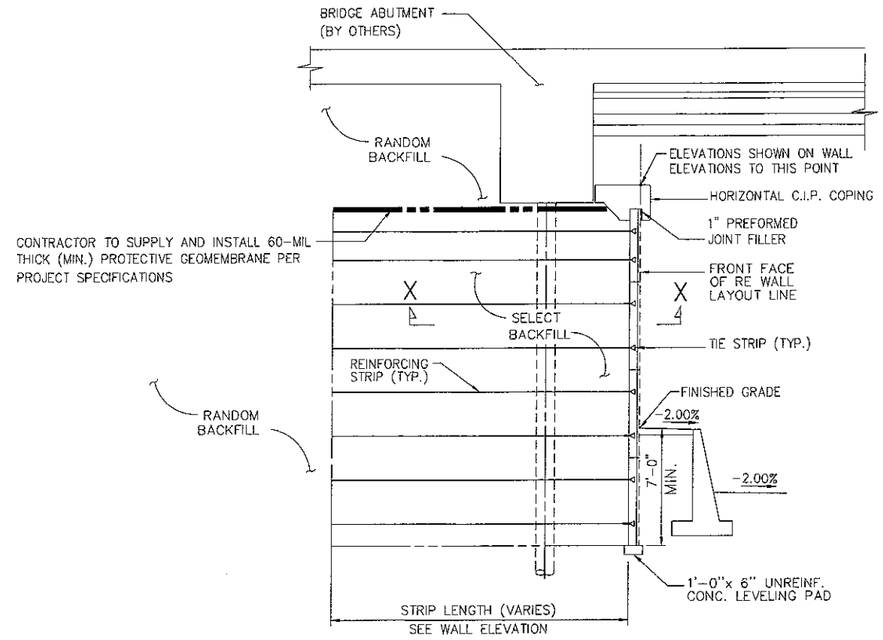
N.T.S.

* SEE TABLE A OF CONTRACT PLANS SECTION R-484, CORRESPONDING TO THE APPROPRIATE WALL AND SECTION




## MSE WALL B – TYPICAL SECTION AT MOMENT SLAB

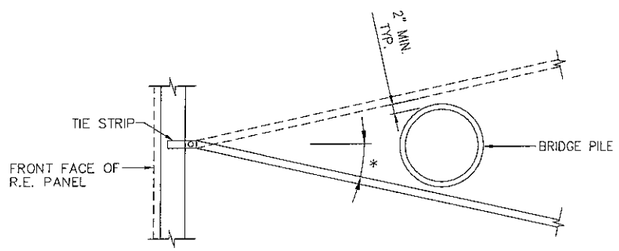
N.T.S.




## MSE WALL B – TYPICAL SECTION AT ABUTMENT

N.T.S.

NOTE:
SEE CONTRACT PLANS FOR EXISTING GRADE AND OTHER INFORMATION NOT SHOWN HERE.




* MINIMIZE SKEW ANGLE

## SECTION X–X

N.T.S.

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY

LICENSED PROFESSIONAL ENGINEER
No. 5269356
FRANSISCUS S. HARDIANTO
STATE OF UTAH
7/10/07

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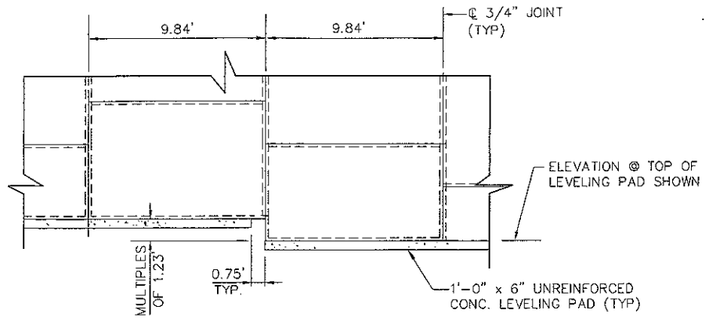
The Reinforced Earth Company
1560 Hotel Circle N. – Suite 304, San Diego, California 92108 (619) 688-2400

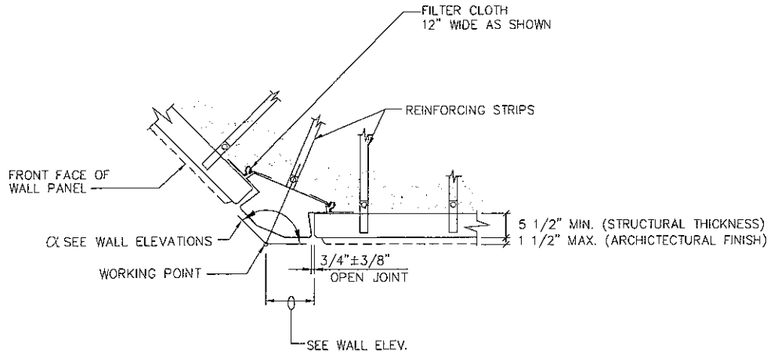


| DESIGNED BY: | | | | PROJECT NAME | REINFORCED EARTH RETAINING WALLS LEGACY PARKWAY – SEGMENT 3 | DATE |
|---|---|---|---|---|---|---|
| JKI | | | | | | 07/10/07 |
| PROJECT ENGR: JLC | | | | LOCATION | CENTERVILLE/FARMINGTON, UTAH SALT LAKE & DAVIS COUNTIES | CONTRACT NO. RE-12527 |
| CHECKED BY: FSH/ML | | | | OWNER | UTAH DOT | DRAWING NO. 3 OF 5 |
| ENG. MANAGER FSH | REV. | DATE | DESCRIPTION | DRAWING COVERS | TYPICAL SECTIONS & DETAILS | SCALE AS SHOWN |



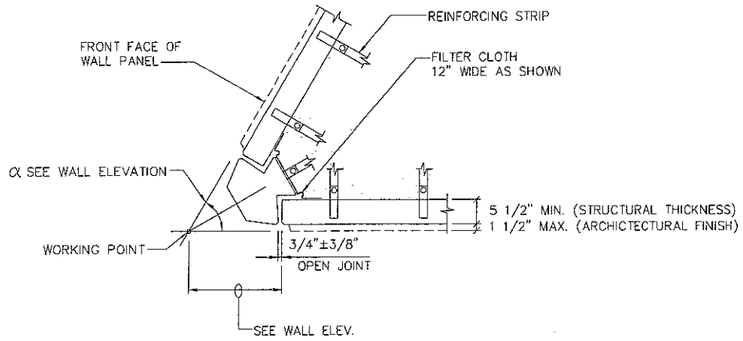

## TYPICAL LEVELING PAD STEP DETAIL

N.T.S.



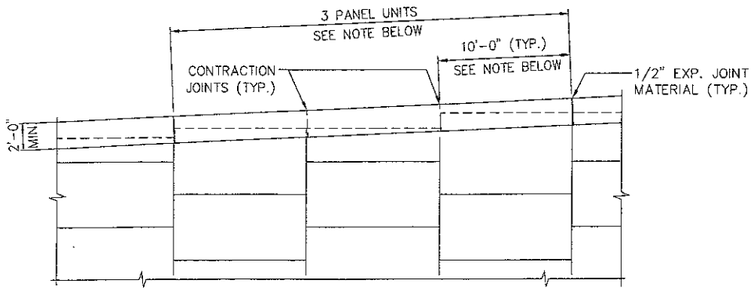

## OBTUSE CORNER ELEMENT DETAIL

N.T.S.




## ACUTE CORNER ELEMENT DETAIL

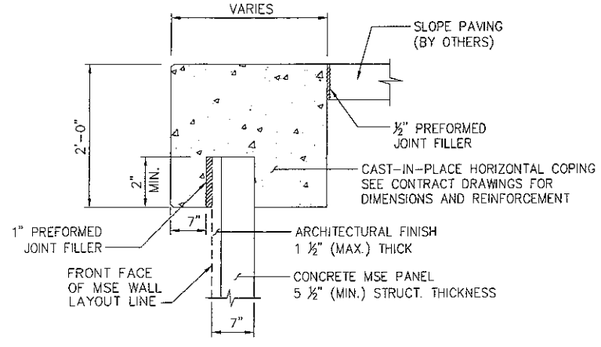
N.T.S.




## HORIZONTAL C.I.P. COPING – PARTIAL ELEVATION

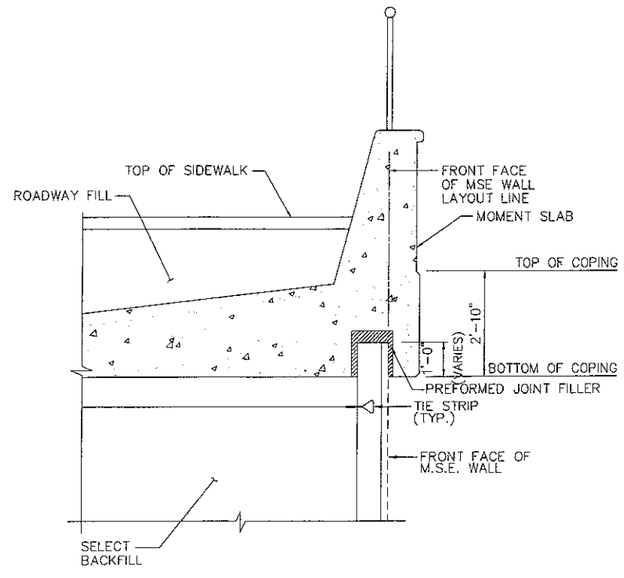
N.T.S.

NOTE:
THREE BEARING PADS PER UNIT, BASE STEM OF BEARING PAD SHALL BE FIELD CUT TO FIT FLAT ON TOP OF CORNER ELEMENT. FRONT PADS SHALL BE PLACED ON INSIDE EDGE OF LIP.



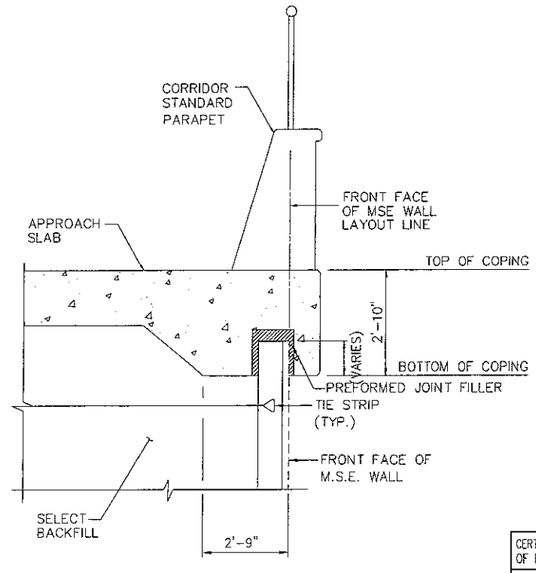

## HORIZONTAL C.I.P. COPING SECTION

N.T.S.




## HORIZONTAL C.I.P. COPING SECTION AT MOMENT SLAB

N.T.S.




## HORIZONTAL C.I.P. COPING SECTION AT APPROACH SLAB

N.T.S.

NOTES:
1- JOINTS IN COPING SHALL BE AT 3 PANEL INTERVALS AND COINCIDE APPROXIMATELY WITH ℄ OF PANEL JOINTS. REINFORCING STEEL SHALL BE STOPPED 2" SHORT OF EITHER SIDE OF THE JOINTS.
2- CONTRACTION JOINTS IN COPING SHALL BE AT 1 PANEL INTERVAL AND COINCIDE APPROXIMATELY WITH ℄ OF PANEL JOINTS.
3- SEE CONTRACT DRAWINGS FOR CAST-IN-PLACE COPING REINFORCEMENT

NOTE:
SEE CONTRACT DRAWINGS SHEET 9 OF 30 FOR VERTICAL COPING DETAILS

THIS SUBMITTAL INCLUDES WALL R-484B ONLY – SINGLE STAGE WALL

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY

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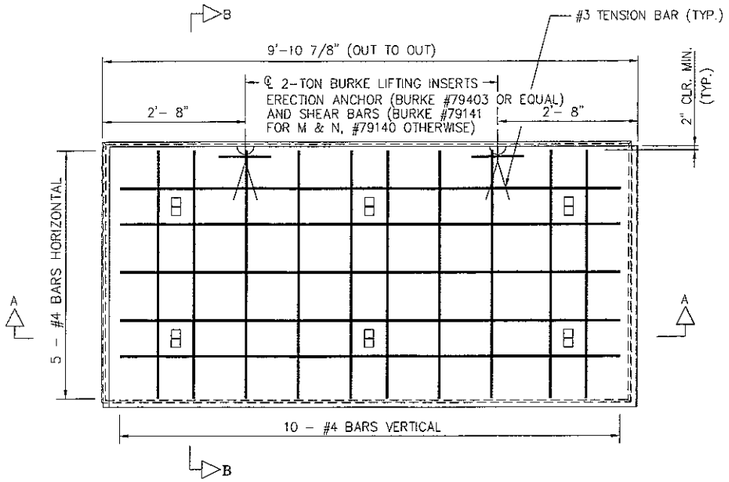
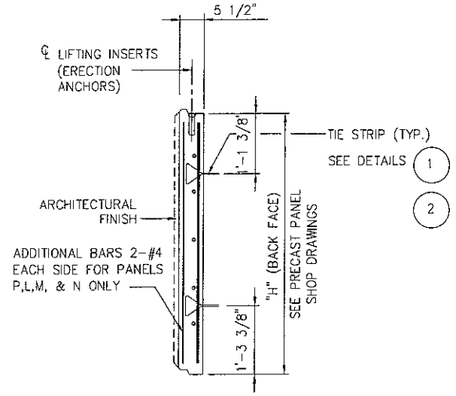
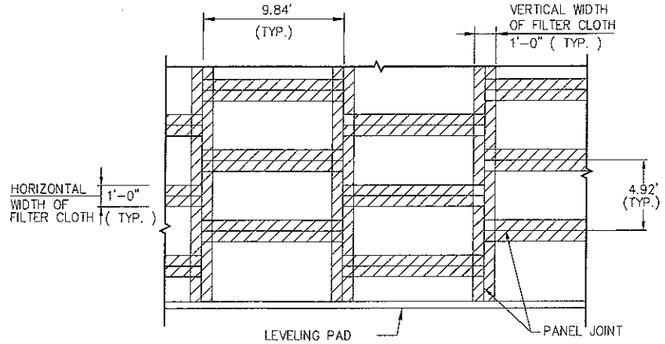
| PROJECT ENGR: JLC | | | | LOCATION | CENTERVILLE/FARMINGTON, UTAH SALT LAKE & DAVIS COUNTIES | CONTRACT NO. RE-12527 |
| CHECKED BY: FSH/ML | | | | OWNER | UTAH DOT | DRAWING NO. 4 OF 5 |
| ENG. MANAGER FSH | REV. | DATE | DESCRIPTION | DRAWING COVERS | STANDARD DETAILS | SCALE AS SHOWN |




## ELEVATION - BACK FACE




## SECTION B-B

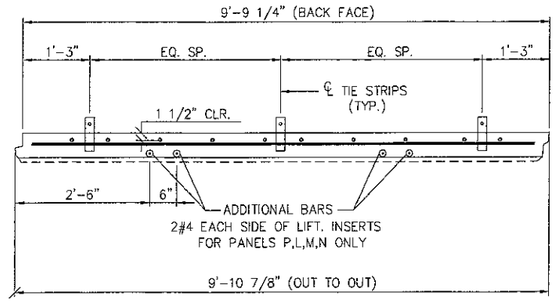



NOTE:
STRIPS OF FILTER CLOTH SHALL BE PLACED ON BACK FACE OF PANEL, OVER PANEL JOINTS. FILTER CLOTH SHALL BE ADHERED TO BACK FACE OF PANELS USING AN ADHESIVE COMPOUND SUPPLIED BY THE REINFORCED EARTH COMPANY (OR EQUAL).

## FILTER CLOTH DETAIL
## PARTIAL ELEVATION - BACK FACE
## RECTANGULAR LARGE PANELS

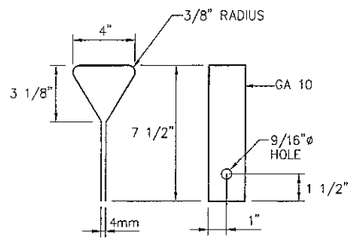
N.T.S.

| PANEL TYPE | "H" |
|---|---|
| A | 4'-10 1/4" |
| B & D | 2'-4 3/4" |
| C | 1'-9 1/2" |
| E | 3'-0 1/4" |
| F & Q | 3'-7 1/2" |
| G | 4'-3" |
| K | 5'-5 3/4" |
| L & P | 6'-1" |
| M | 6'-8 1/2" |
| N | 7'-3 3/4" |



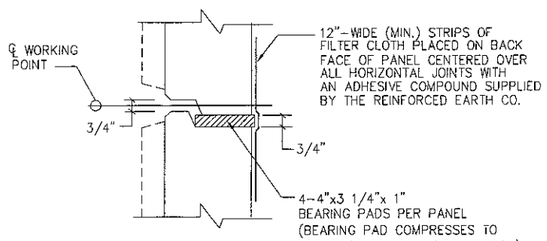

## SECTION A-A
## TYPICAL PANEL REINFORCEMENT
## (PANEL TYPE $A_6$ SHOWN)

N.T.S.



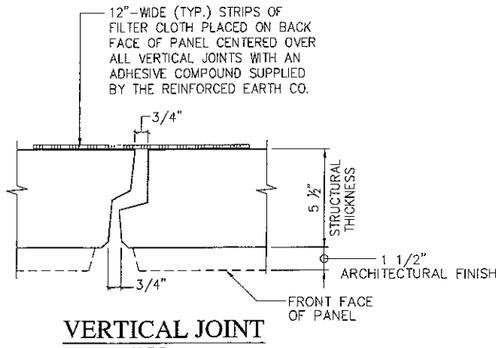

## (1) TIE STRIP DETAIL

N.T.S.



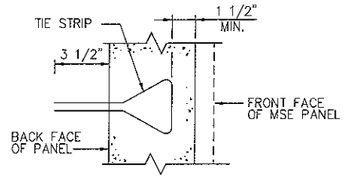

## HORIZONTAL JOINT

N.T.S.




## VERTICAL JOINT

N.T.S.
(LOOKING UP PANEL)




## (2) PARTIAL SECTION @ TIE STRIP

N.T.S.

NOTES:

1. REINFORCING STEEL TO BE A615 GRADE 60, GALVANIZED CONCRETE TO HAVE f'c=4,000 psi MIN. AFTER 28 DAYS
2. 1/2" x 1/2" CHAMFER SHALL BE PROVIDED ON ALL EXPOSED EDGES ( FRONT FACE ONLY ).
3. ALL PANEL TYPES AND OTHER RELATED ELEMENTS WILL BE DETAILED ON SHOP DRAWINGS.
4. ALL PANELS SHALL HAVE TWO LIFTING INSERTS OF MINIMUM TWO TON CAPACITY EACH.
5. PANEL DESIGN THICKNESS IS 5 1/2". THICKNESS OF CONCRETE MUST INCREASE TO ACCOMMODATE ANY ARCHITECTURAL SURFACE FINISH THAT MAY BE SPECIFIED.

CERTIFIED WITH RESPECT TO INTERNAL STABILITY OF REINFORCED EARTH STRUCTURES ONLY

LICENSED PROFESSIONAL ENGINEER
No. 5269356
FRANSISCUS S.
HARDIANTO
STATE OF UTAH
7/10/07

THIS SUBMITTAL INCLUDES WALL R-484B ONLY - SINGLE STAGE WALL



The design contained on these drawings is based on information provided by the owner. On the basis of this information, The Reinforced Earth Company has designed, and is responsible for the internal stability of the structure only. External stability, including foundation (bearing capacity and settlement) and slope stability (sliding and rotation), is the responsibility of the owner.

The Reinforced Earth Company
1660 Hotel Circle N. - Suite 304, San Diego, California 92108 (619) 688-2400



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESIGNED BY: JKI | | | | | PROJECT NAME | REINFORCED EARTH RETAINING WALLS LEGACY PARKWAY - SEGMENT 3 | DATE 07/10/07 |
| PROJECT ENGR: JLC | | | | | LOCATION | CENTERVILLE/FARMINGTON, UTAH SALT LAKE & DAVIS COUNTIES | CONTRACT NO. RE-12527 |
| CHECKED BY: FSH/ML | | | | | OWNER | UTAH DOT | DRAWING NO. 5 OF 5 |
| ENG. MANAGER FSH | REV. | DATE | DESCRIPTION | | DRAWING COVERS | STANDARD PANEL DETAILS | SCALE AS SHOWN |