

The Reinforced Earth Company

8614 Westwood Center Drive Suite 1100, Vienna, Virginia 22182 (703) 821-1175

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 (SECTION 548) FOR REINFORCED EARTH WALLS
- 2. SOIL PARAMETERS:

SEE WALL CONTROL DRAWINGS FOR SOIL CHARACTERISTICS OF FOUNDATION MATERIAL TO BE USED IN THE DESIGN OF THE WALL SYSTEM. THE CONTRACTOR SHALL PROVIDE SOIL DESIGN PARAMETERS FOR BACKFILL MATERIAL BASED ON THE ACTUAL SOIL CHARACTERISTICS UTILIZED AT THE SITE. THE VALUES OF FRICTION ANGLE (ϕ), COHESION (c) AND TOTAL UNIT WEIGHT (γ) SHALL BE PROVIDED IN THE SHOP DRAWINGS.

- 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 FOR REINFORCED EARTH WALLS SHALL BE 1 31/32" WIDE AND 5/32" THICK, AND SHALL CONFORM TO THE PHYSICAL AND MECHANICAL PROPERTIES OF ASTM A-572 GRADE 65. GALVANIZATION SHALL BE APPLIED IN ACCORDANCE WITH ASTM A-123.
- HA LADDERS SHALL BE SUPPLIED BY THE REINFORCED EARTH COMPANY, 6. AND SHOP FABRICATED OF COLD DRAWN STEEL WIRE CONFORMING TO THE PHYSICAL AND MECHANICAL PROPERTIES OF ASTM A-82. ALL WELDING SHALL BE IN ACCORDANCE WITH ASTM A-185. GALVANIZING FOR PERMANENT WALL SYSTEMS SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-123 OR AASHTO M111 (2 OZ/SQ. FT.). HA LADDER REINFORCEMENTS MAY BE USED ONLY ON WALLS WITH HEIGHTS 20 FT OR LESS.
- 7. THE MINIMUM FACTORS OF SAFETY REQUIRED FOR DESIGN

OVERTURNING = 2.0SLIDING = 1.5INTERNAL PULLOUT = 1.5 (ALLOWABLE DEFORMATION = 0.75 INCH) BEARING CAPACITY = 2.5OVERALL STABILITY = 1.5STEEL SOIL REINFORCEMENT = 0.55Fy AT END OF DESIGN LIFE AND 0.50 Fu AT NET SECTION OF BOLTED CONNECTION MAXIMUM PULLOUT FACTOR f^* (FOR SAND) = 1.5 (FOR LIMEROCK) = 2.0

WALL CONSTRUCTION

- 8. REINFORCED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 4'-11" EACH TO MATCH DESIRED WALL ALIGNMENT,
- FOR LOCATION AND ALIGNMENT OF REINFORCED EARTH WALLS, SEE 9 RETAINING WALL CONTROL PLANS.
- 10. IF MANHOLES AND DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.
- 11. 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.

- 12. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SEC 548 TO A LEVEL OF 2"* ABOVE THE TIE STRIPS EMBEDDED IN THE PANELS. INSTALLATION OF SOIL REINFORCEMENTS SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.
- 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 AASHTO T-180 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 SOIL REINFORCEMENTS. INDIVIDUAL REINFORCEMENTS MAY BE SKEWED UP TO 15^ TO AVOID THE POST LOCATIONS IF AUTHORIZED BY THE ENGINEER. ANY DAMAGE DONE TO THE SOIL REINFORCEMENTS DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL 15. POSTS WHICH ARE WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF SOIL REINFORCEMENTS AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE WHAT COURSE OF ACTION SHOULD BE TAKEN.
- 16. TOP PANELS BENEATH COPING SHALL HAVE #4 DOWELS PROTRUDING FROM THEIR TOP EDGE.
- 17. FOR OTHER INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE REFER TO THE REINFORCED EARTH CONSTRUCTION MANUAL.
- THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER SOIL REINFORCEMENTS 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.

MATERIALS NOTES

19. NOMINAL SOIL REINFORCEMENT LENGTHS

THE SOIL REINFORCEMENT LENGTHS SHOWN ON THE PLANS, MEASURED FROM BACK FACE OF PANEL. ARE THE NOMINAL LENGTHS REQUIRED BY CALCULATION. THE ACTUAL FABRICATED REINFORCEMENT LENGTHS ARE OFTEN LONGER (UP TO 6") DUE TO MANUFACTURING TOLERANCES. THE REQUIRED HORIZONTAL LIMIT OF GRANULAR BACKFILL IS EQUAL TO THE NOMINAL SOIL REINFORCEMENT LENGTH.

20, PANEL FINISH

THE PRECAST PANELS FOR THIS PROJECT SHALL HAVE A PLAIN STEEL FINISH UNLESS OTHERWISE SPECIFIED ON THE RETAINING WALL CONTROL PLANS

21. NOTE TO CONTRACTORS

ONLY THE FOLLOWING MATERIAL FARTH COMPANY

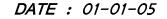
- PRECAST CONCRETE FACING
- SOIL REINFORCEMENTS - BOLT SETS (FOR ATTACHING
- BEARING BLOCKS
 - RUBBER SHIMS
 - FILTER CLOTH AND ADHESIVE

ANY OTHER MATERIALS CALLED SPECIFICATIONS ARE TO BE SUI MATERIALS SHOWN AT THE INTE IN-PLACE CONCRETE STRUCTUR CONTRACTOR, ALL SANDBLASTI APPLIED COATINGS ARE ALSO S IN THE FIELD FOLLOWING PANEL

- 22. THE REINFORCED EARTH COMPA AND ACCESSORIES TO BE USED CONSTRUCTION OF THE REINFOR THE CONSTRUCTION AND QU REINFORCED EARTH COMPAN THE SYSTEM, IT IS THE CONT SPECIFIC ERECTION SEQUENCI AND FALL PROTECTION SYST AND QUALITY CONTROL PROC ACCOUNT FOR PROJECT SPEC MANUAL DOES NOT RELIEVE PROJECT PLANS, SPECIFICAT FALL PROTECTION, SAFETY, LAW CONTRACTORS SHOULD TAKE SHIFTING OR FALLING DURING T
- 23. THE DESIGN CONTAINED ON THE BY THE OWNER. ON THE BASIS COMPANY IS RESPONSIBLE FOR EXTERNAL STABILITY DESIGN INC RESPONSIBILITY OF OTHERS,
- 24. THESE DRAWINGS ARE CERTIFIED REINFORCED EARTH STRUCTURE
- 25. THIS DRAWING CONTAINS INF AND IS BEING FURNISHED FO THE INFORMATION CONTAINED H ORGANIZATION UNLESS SPEC COMPANY, THE REINFORCED UNDER PATENTS ISSUED TO CONSTITUTE AN EXPRESSED OR

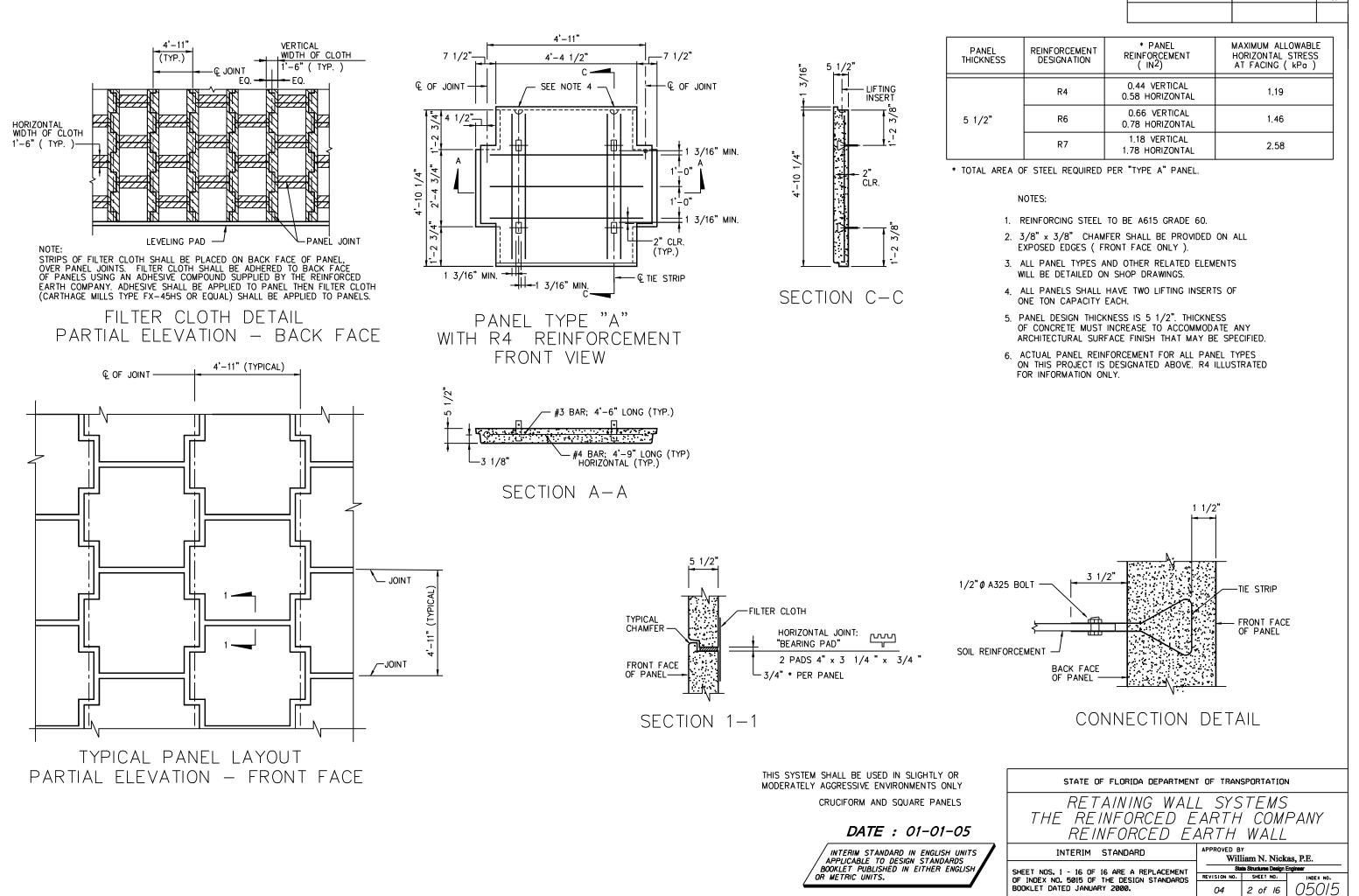
THIS SYSTEM SHALL BE USED I AGGRESSIVE ENVIRONMENTS ON

CRUCIFORM AND SQUARE PANEL

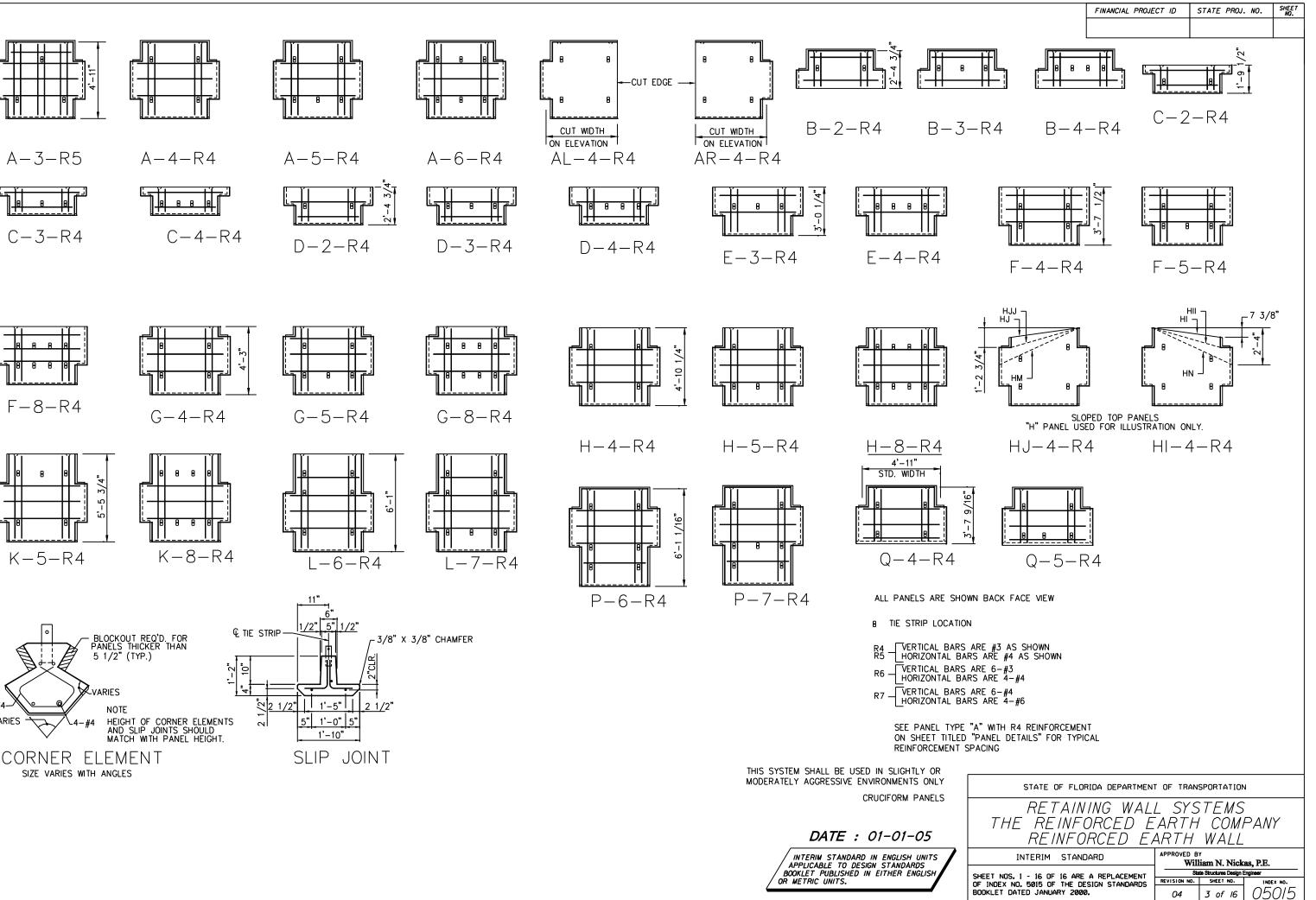


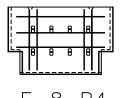


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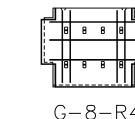
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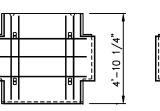


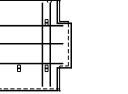


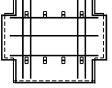


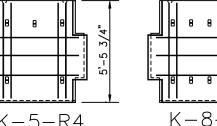


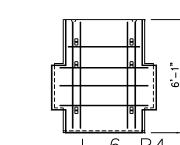


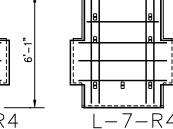




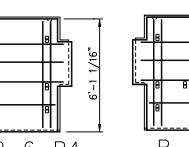


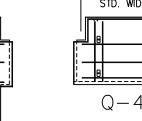




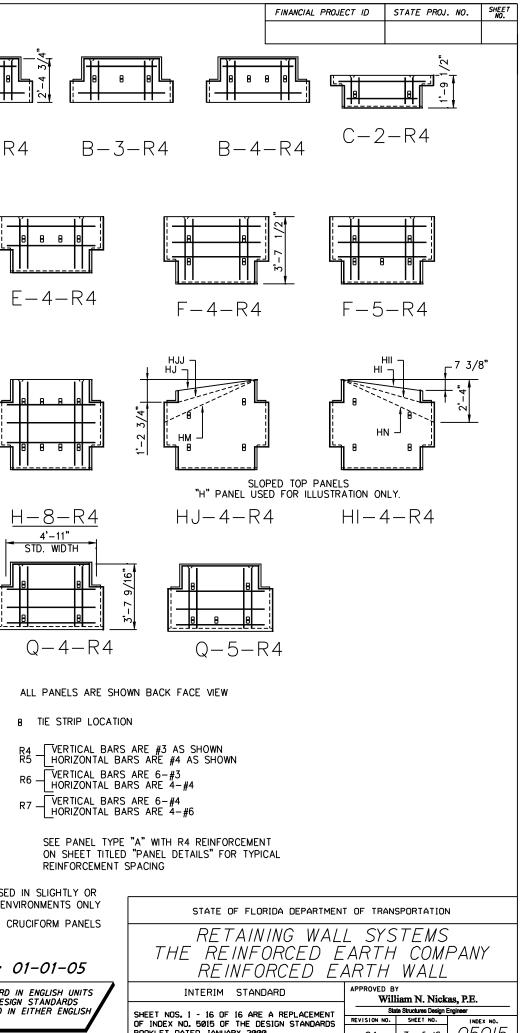




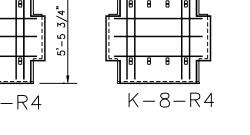


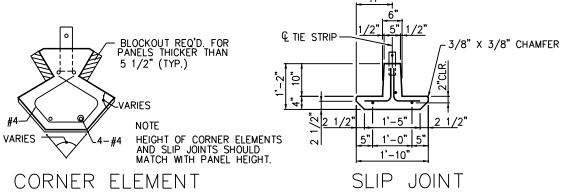


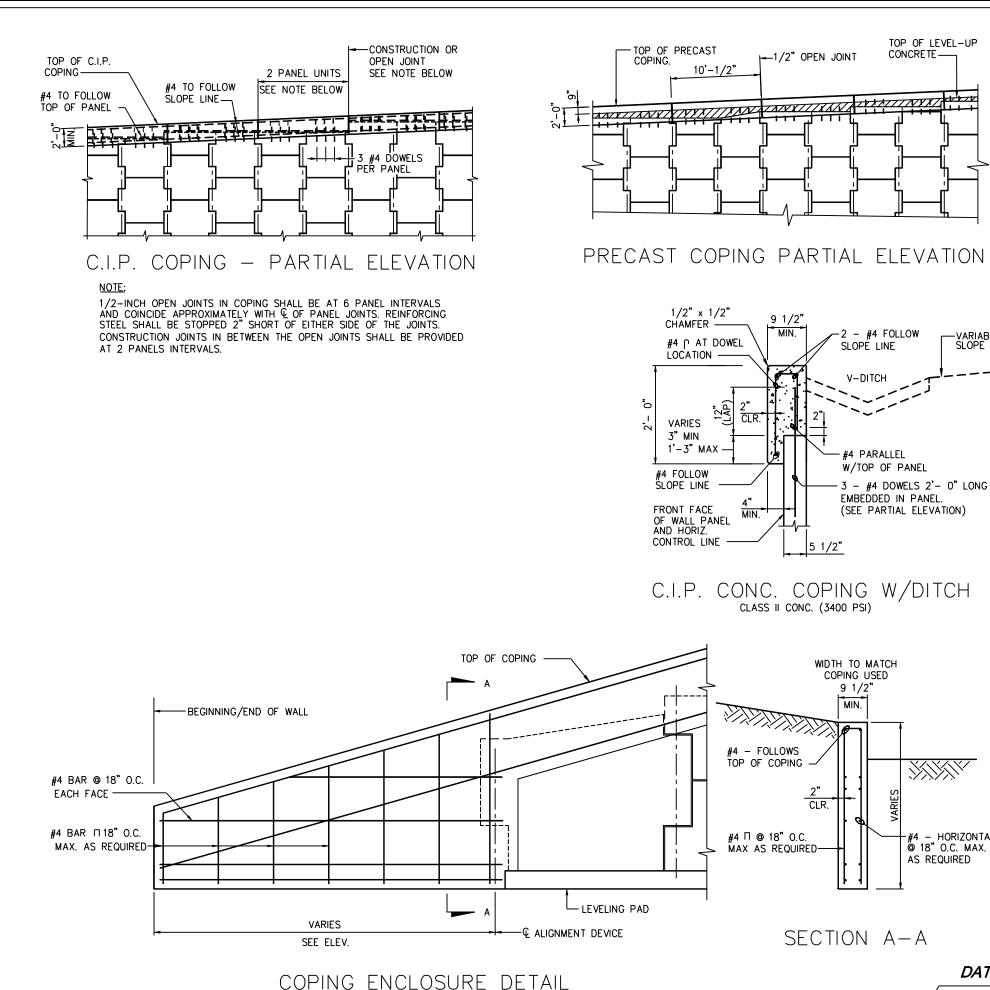
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CONCRETE FILL AS REQUIRED VARIES 3" MIN

TOP OF LEVEL-UP

-VARIABLE SLOPE

CONCRETE -

4 1/2"± (VARIES ALONG RADIUS) FRONT FACE OF R.E. WALL AND HORIZ. CONTROL LINE

NOTE:

VARIES 3" MIN 1'-3" MAX

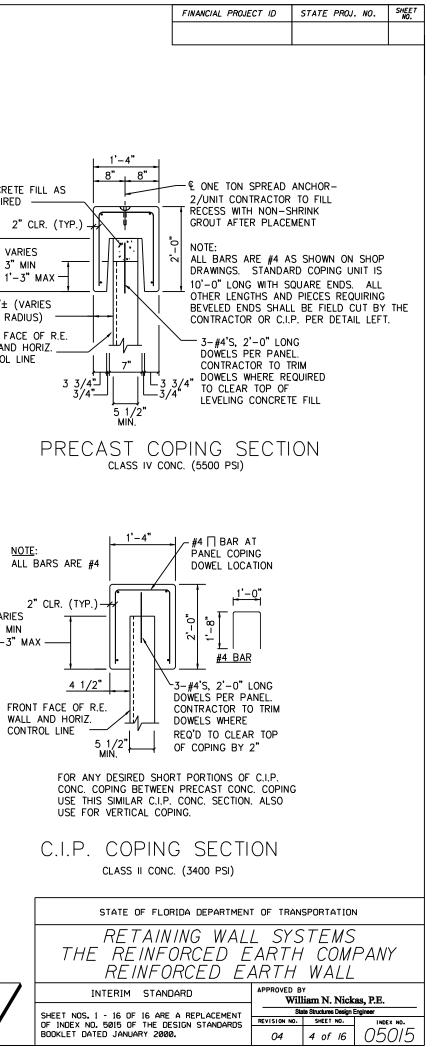
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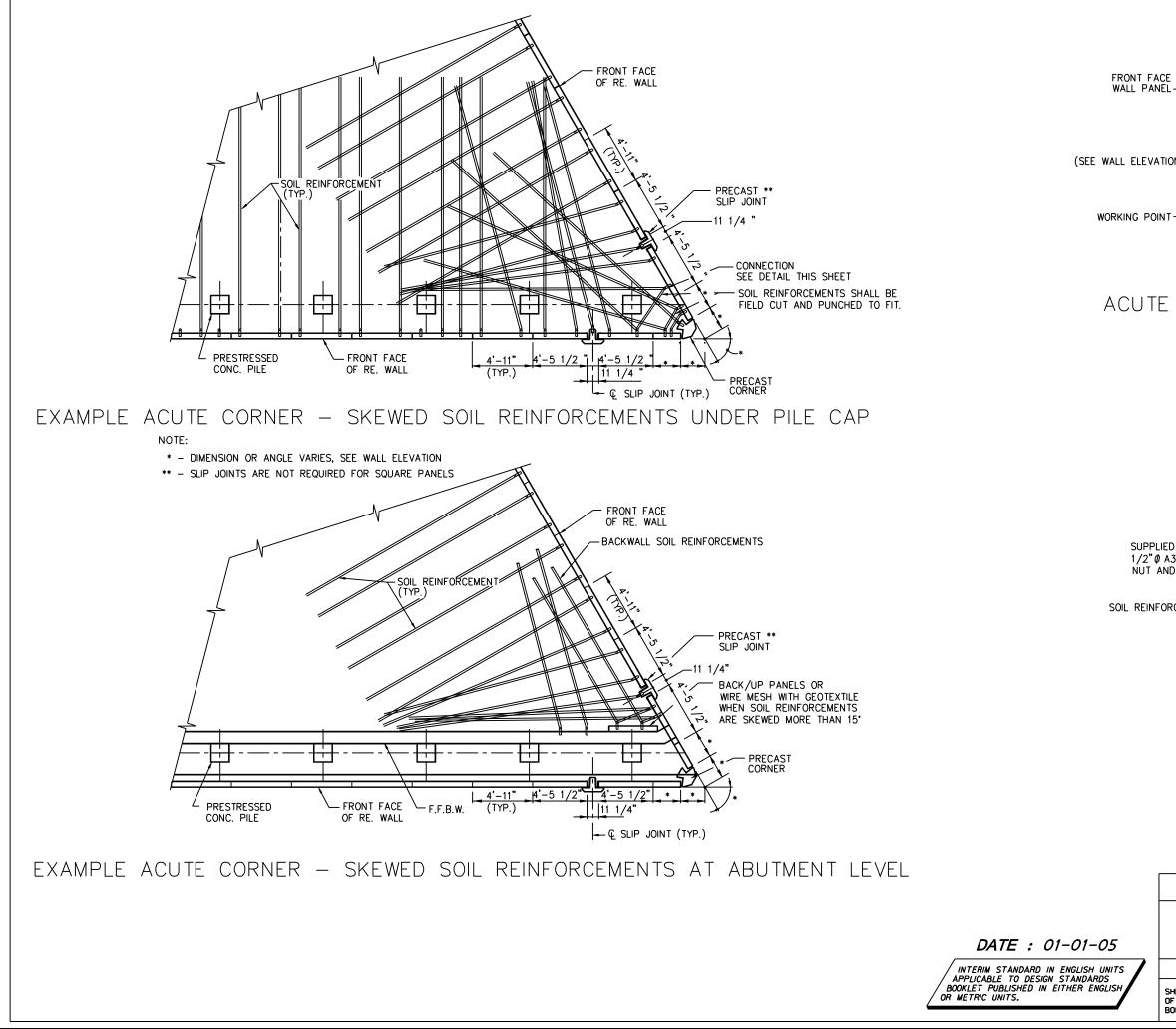
THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY CRUCIFORM PANELS

/ INTERIM STANDARD IN ENGLISH UNITS APPLICABLE TO DESIGN STANDARDS BOOKLET PUBLISHED IN EITHER ENGLISH OR METRIC UNITS.

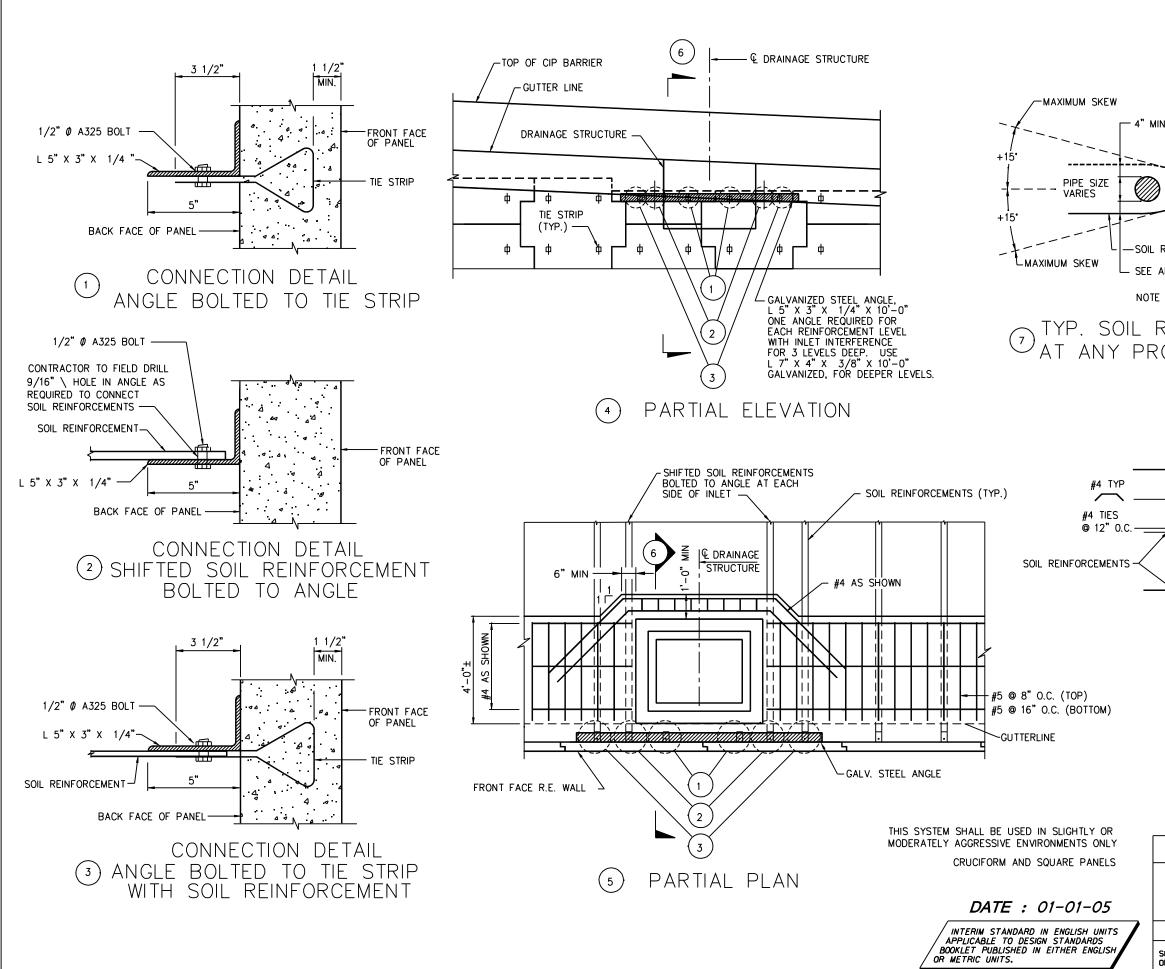
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AS REQUIRED

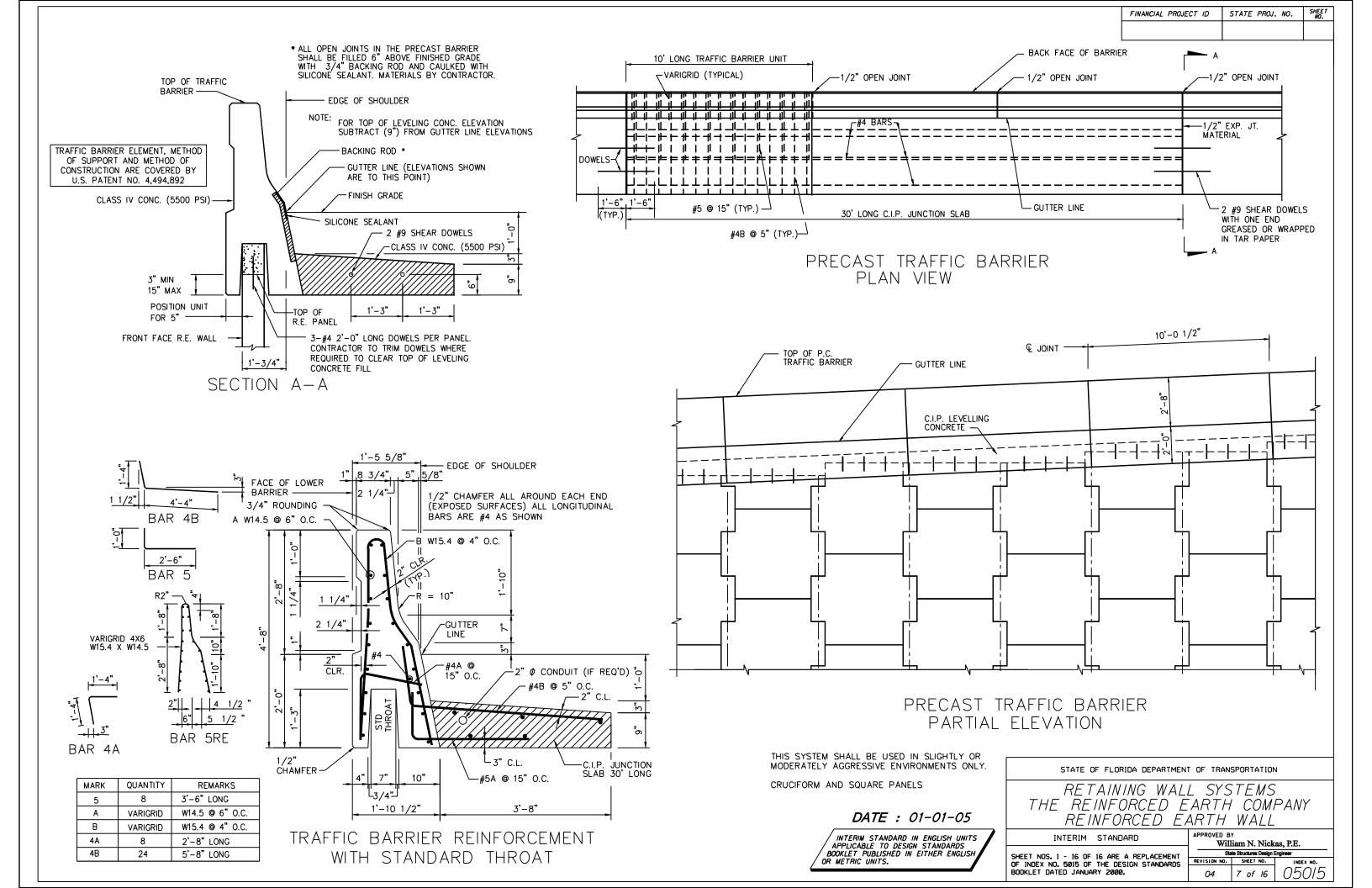


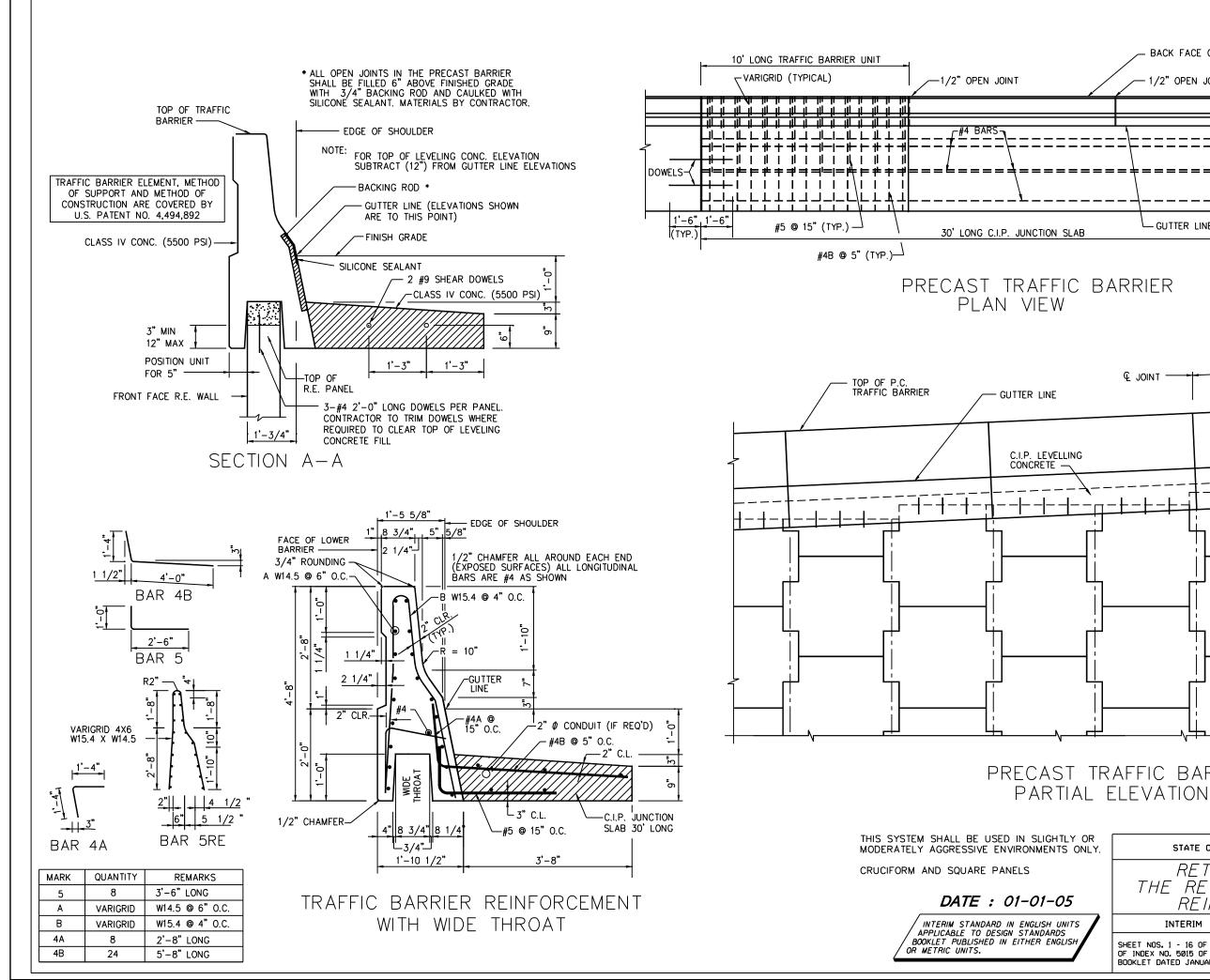


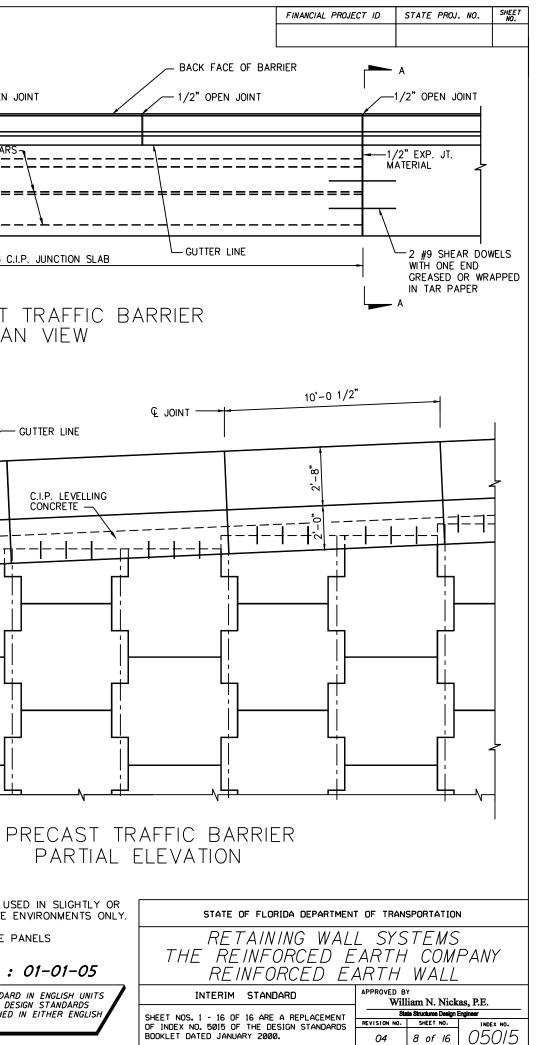
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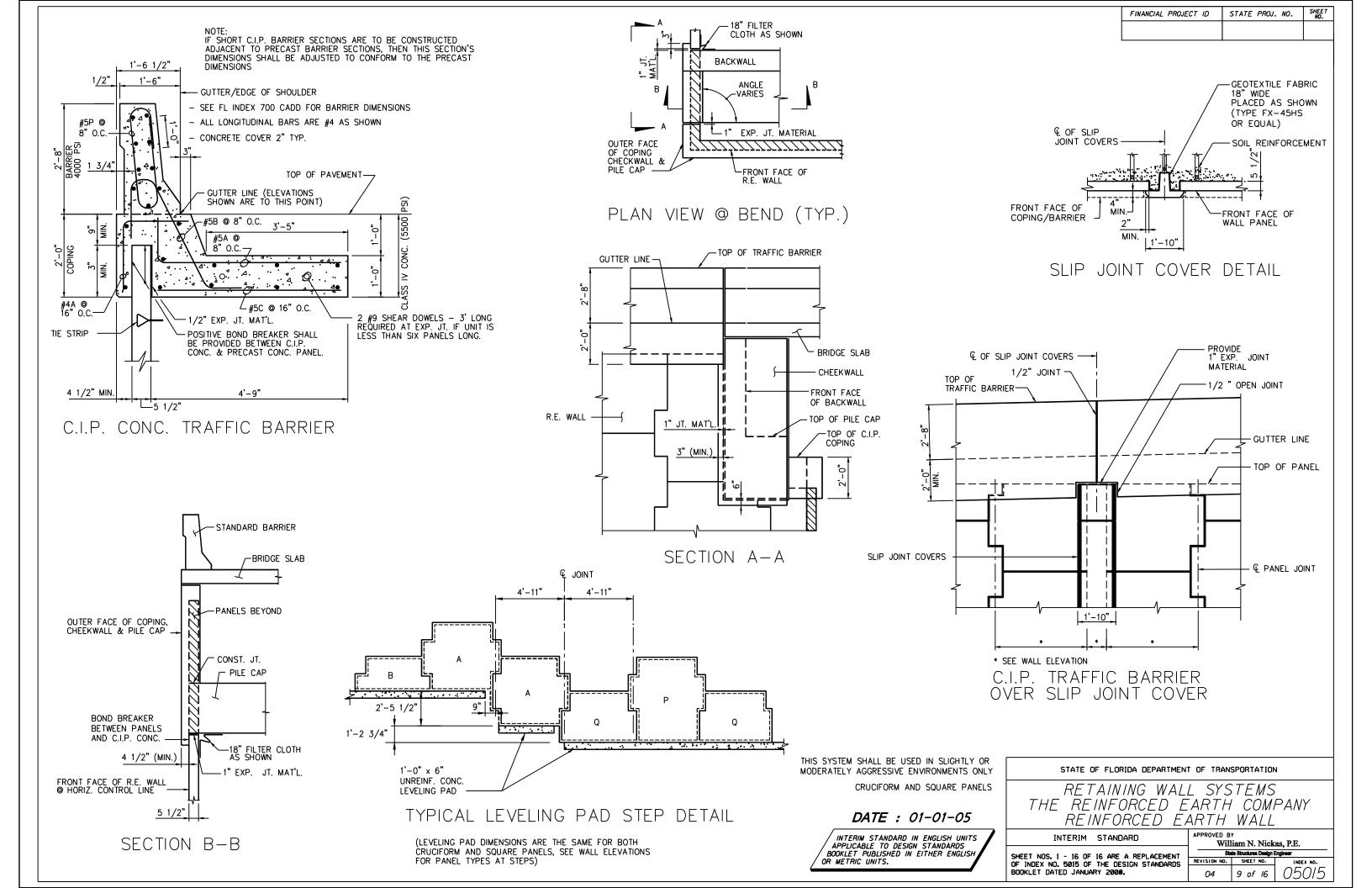


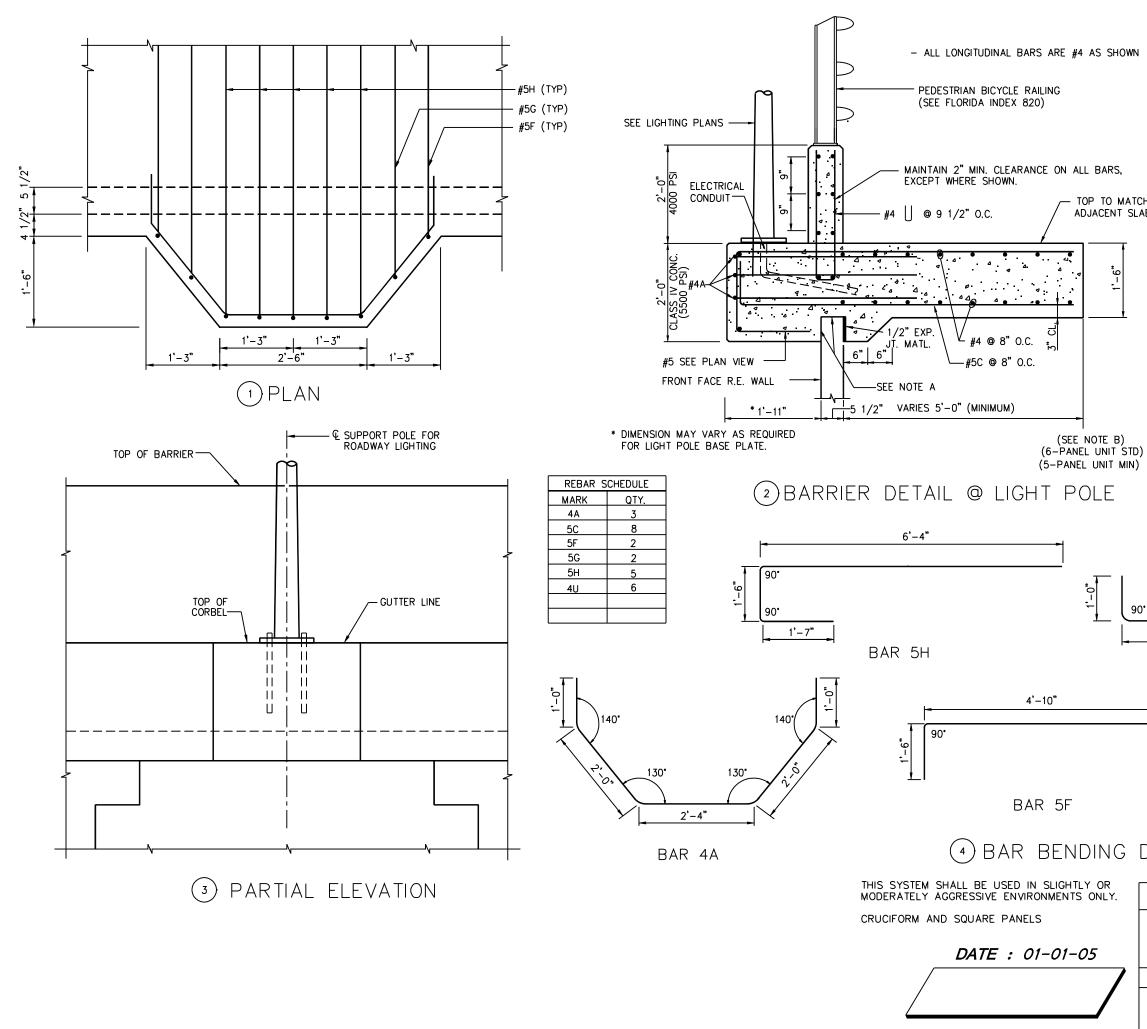
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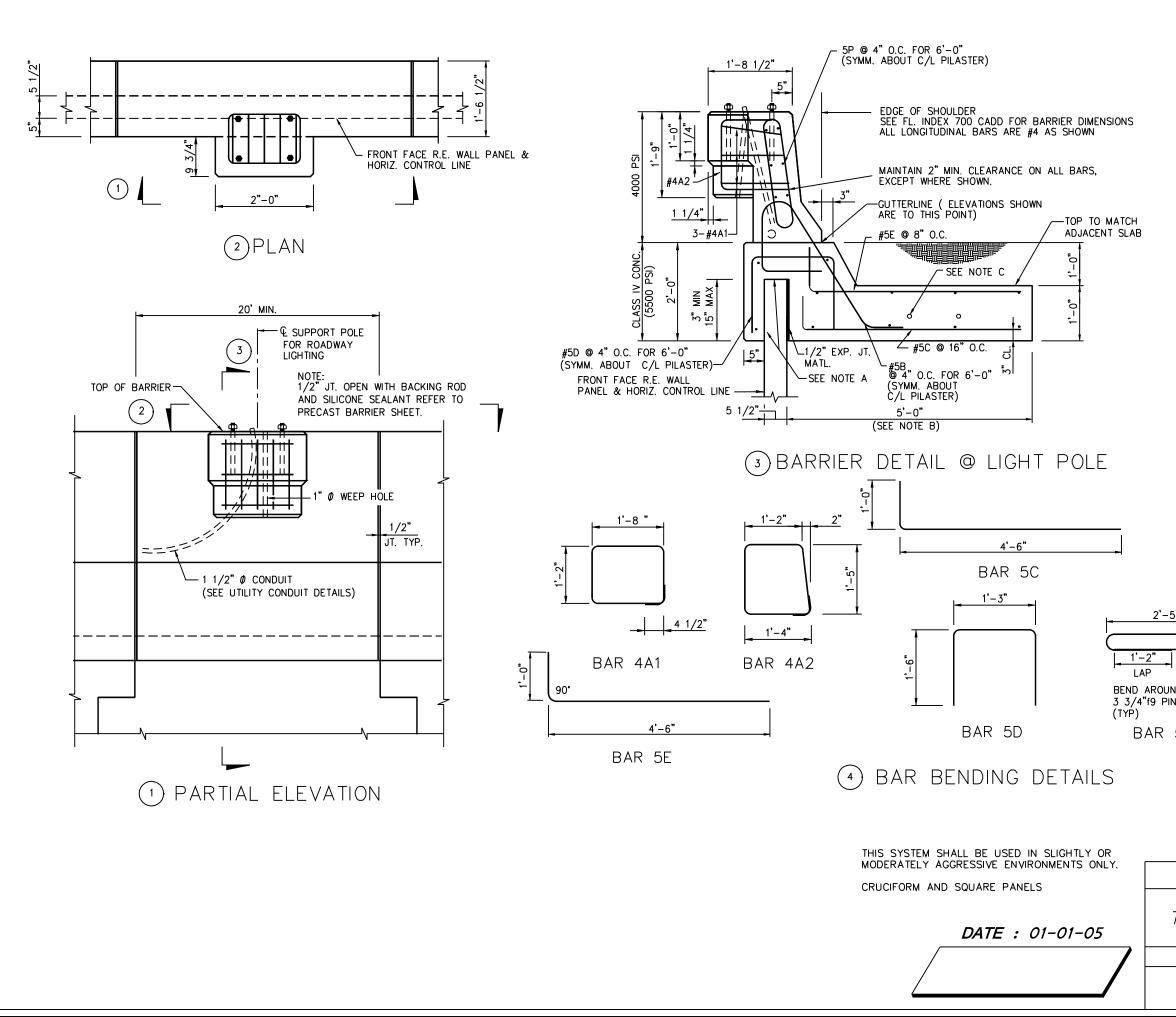




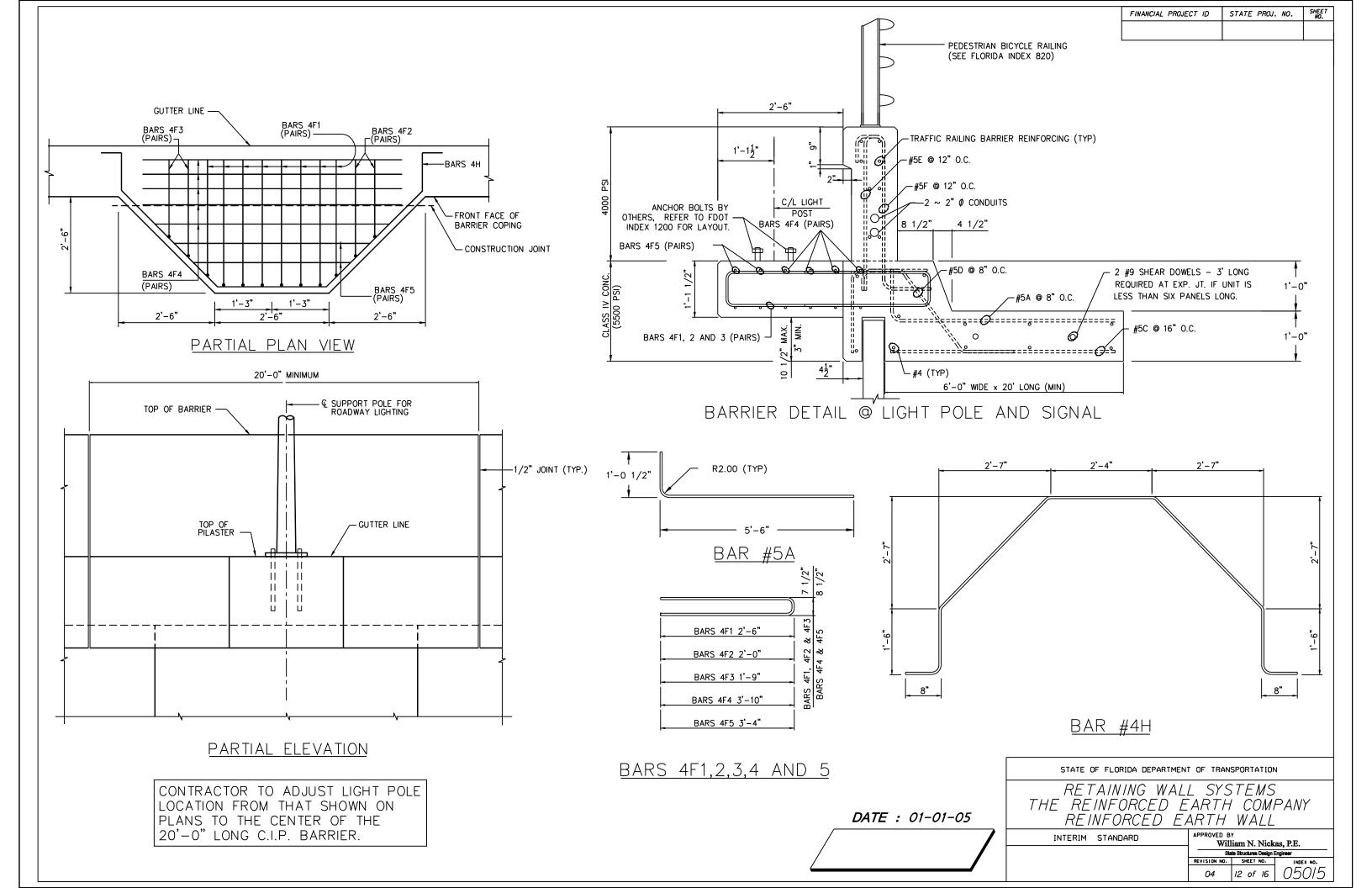


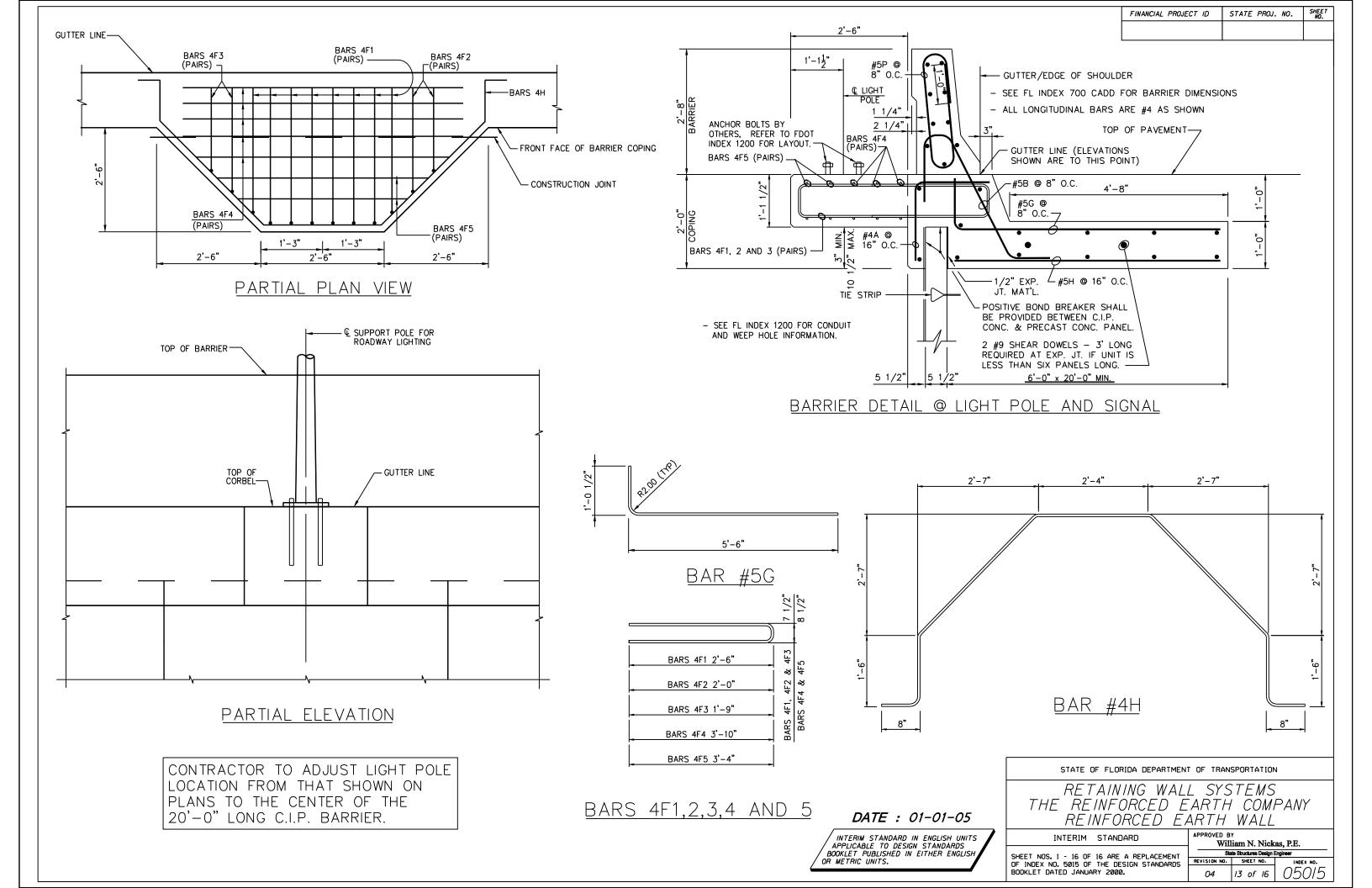


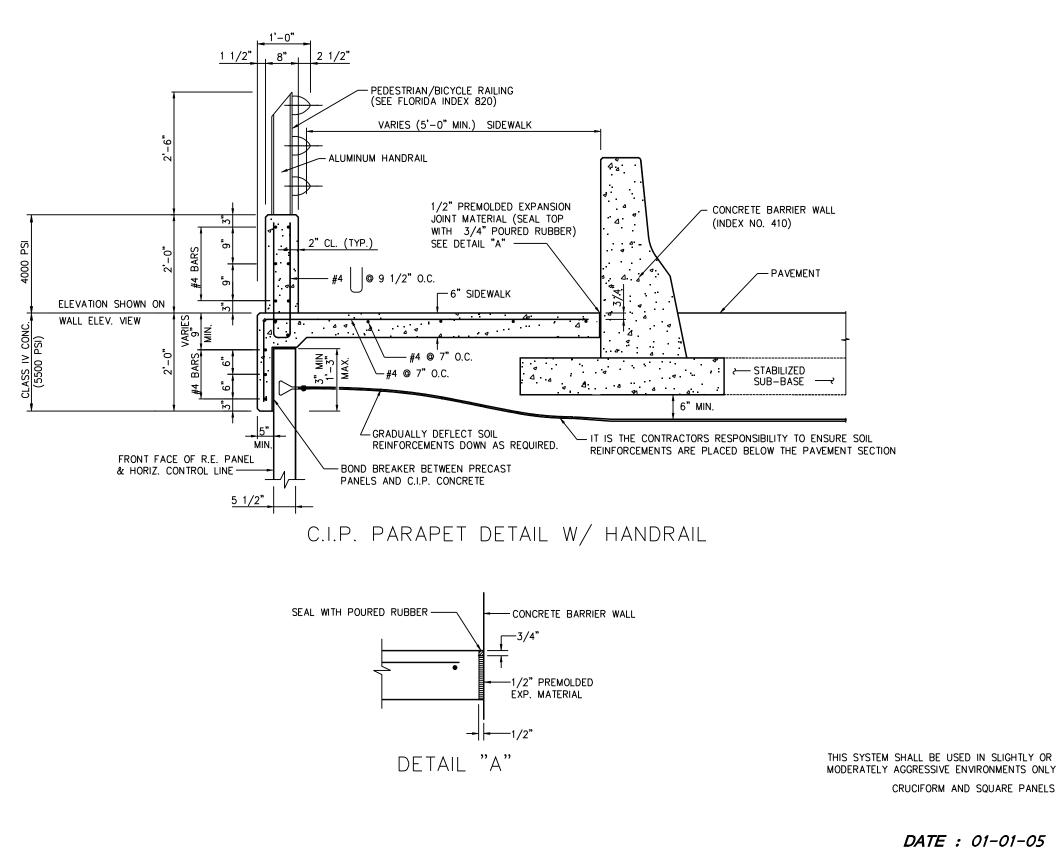
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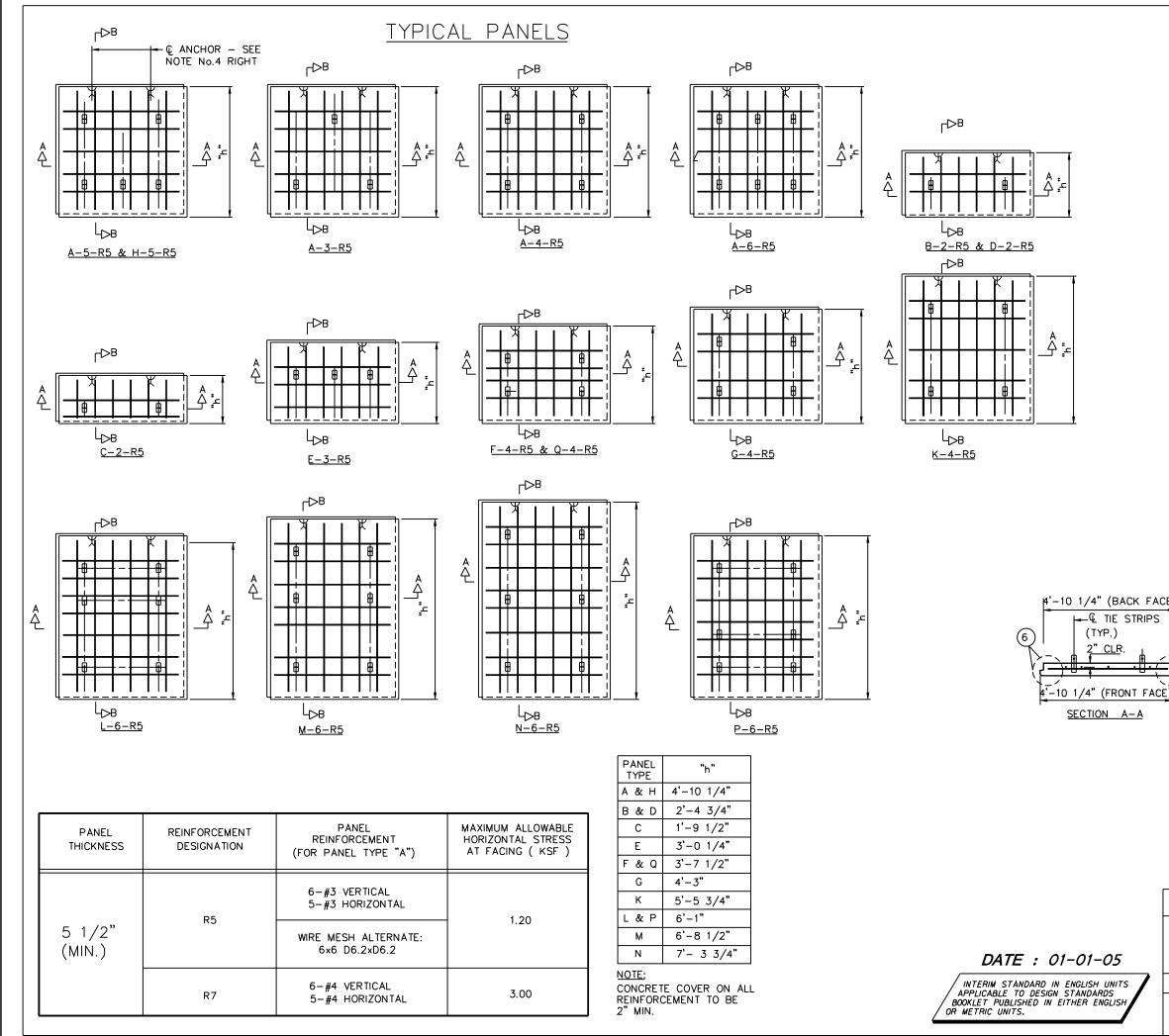






INTERIM STANDARD IN ENGLISH UNITS APPLICABLE TO DESIGN STANDARDS BOOKLET PUBLISHED IN EITHER ENGLISH OR METRIC UNITS.

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	FINANCIAL PROJE	CT ID	STATE PRO	OJ. NO.	SHEET NO.				
NOTES: 1. REINFORCEMENT SHOWN SHALL COMPLY TO THE ASTM A615, GRADE 60 STANDARDS. ALTERNATE REINFORCEMENT MAY BE DEFORMED WELDED WIRE FABRIC AS INDICATED IN THE TABLE BELOW, THIS FABRIC SHALL COMPLY TO ASTM A497. REBAR LAYOUT WILL BE DETAILED AND SHOWN ON PANEL SHOP DRAWINGS, IF WELDED FABRIC IS TO BE USED THE SIZE SHOULD BE DETERMINED BASED ON THE PANEL SHAPE AND REQUIRED MINIMUM EDGE DISTANCE.									
 1/2" x 1/2" CHAMF EXPOSED EDGES (F ALL PANEL TYPES A 	RONT FACE ON	ILY).							
 WILL BE DETAILED ON SHOP DRAWINGS. 4. ALL PANELS EXCEPT TYPES M, N, NII, NJJ, NI & NJ SHALL HAVE TWO BURKE 1-TON SPREAD ANCHORS. PANEL TYPES M, N, NII, NJJ, NI & NJ SHALL HAVE TWO BURKE 2-TON ERECTION HEAD ANCHORS WITH BOTH TENSION AND SHEAR BARS. 5. PANEL DESIGN STRUCTURAL THICKNESS IS 5 1/2" MINIMUM, 									
ARCHITECTURAL SCU									
7. PANEL REINFORCEME									
	FOR L.M.N ONLY		1/2" ARRIES VARIES E STRIP STRIP STRIP (JOP J NOR B - B N B - B						
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SHEET NOS. 1 - 16 OF 16 ARE OF INDEX NO. 5015 OF THE DE BOOKLET DATED JANUARY 2000	SIGN STANDARDS	REVISION NO	State Structures Desi D. SHEET NO. 15 Of 16		ex no. 0/5				

