

The Reinforced Earth Company

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

DESIGN CRITERIA

- 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.
- 6. HA LADDERS SHALL BE SUPPLIED BY THE REINFORCED EARTH COMPANY, 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 = 2.0 SLIDING = 1.5 INTERNAL PULLOUT = 1.5 (ALLOWABLE DEFORMATION = 0.75 INCH) BEARING CAPACITY = 2.5 OVERALL STABILITY = 1.5 STEEL SOIL REINFORCEMENT = 0.55Fy AT END OF DESIGN LIFE AND 0.50 F_u 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 $4^{\prime}-11^{\prime\prime}$ EACH TO MATCH DESIRED WALL ALIGNMENT.
- 9. FOR LOCATION AND ALIGNMENT OF REINFORCED EARTH WALLS, SEE 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.
- 15. IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL 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.
- 18. 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 MATERIALS

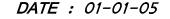
- PRECAST CONCRETE FACING
- SOIL REINFORCEMENTS
 BOLT SETS (FOR ATTACHING
- BEARING BLOCKS
 - RUBBER SHIMS
 - FILTER CLOTH AND ADHESIVE

ANY OTHER MATERIALS CALLED SPECIFICATIONS ARE TO BE SUP MATERIALS SHOWN AT THE INTEF IN-PLACE CONCRETE STRUCTURE CONTRACTOR. ALL SANDBLASTIN APPLIED COATINGS ARE ALSO SU IN THE FIELD FOLLOWING PANEL

- 22. THE REINFORCED EARTH COMPAN AND ACCESSORIES TO BE USED CONSTRUCTION OF THE REINFORC THE CONSTRUCTION AND QUA REINFORCED EARTH COMPANY THE SYSTEM. IT IS THE CONT SPECIFIC ERECTION SEQUENCE AND FALL PROTECTION SYSTE AND QUALITY CONTROL PROC ACCOUNT FOR PROJECT SPEC MANUAL DOES NOT RELIEVE PROJECT PLANS, SPECIFICATIO FALL PROTECTION, SAFETY, LAWS CONTRACTORS SHOULD TAKE SHIFTING OR FALLING DURING TH
- 23. THE DESIGN CONTAINED ON THE BY THE OWNER. ON THE BASIS OF COMPANY IS RESPONSIBLE FOR I EXTERNAL STABILITY DESIGN INC RESPONSIBILITY OF OTHERS.
- 24. THESE DRAWINGS ARE CERTIFIED REINFORCED EARTH STRUCTURES
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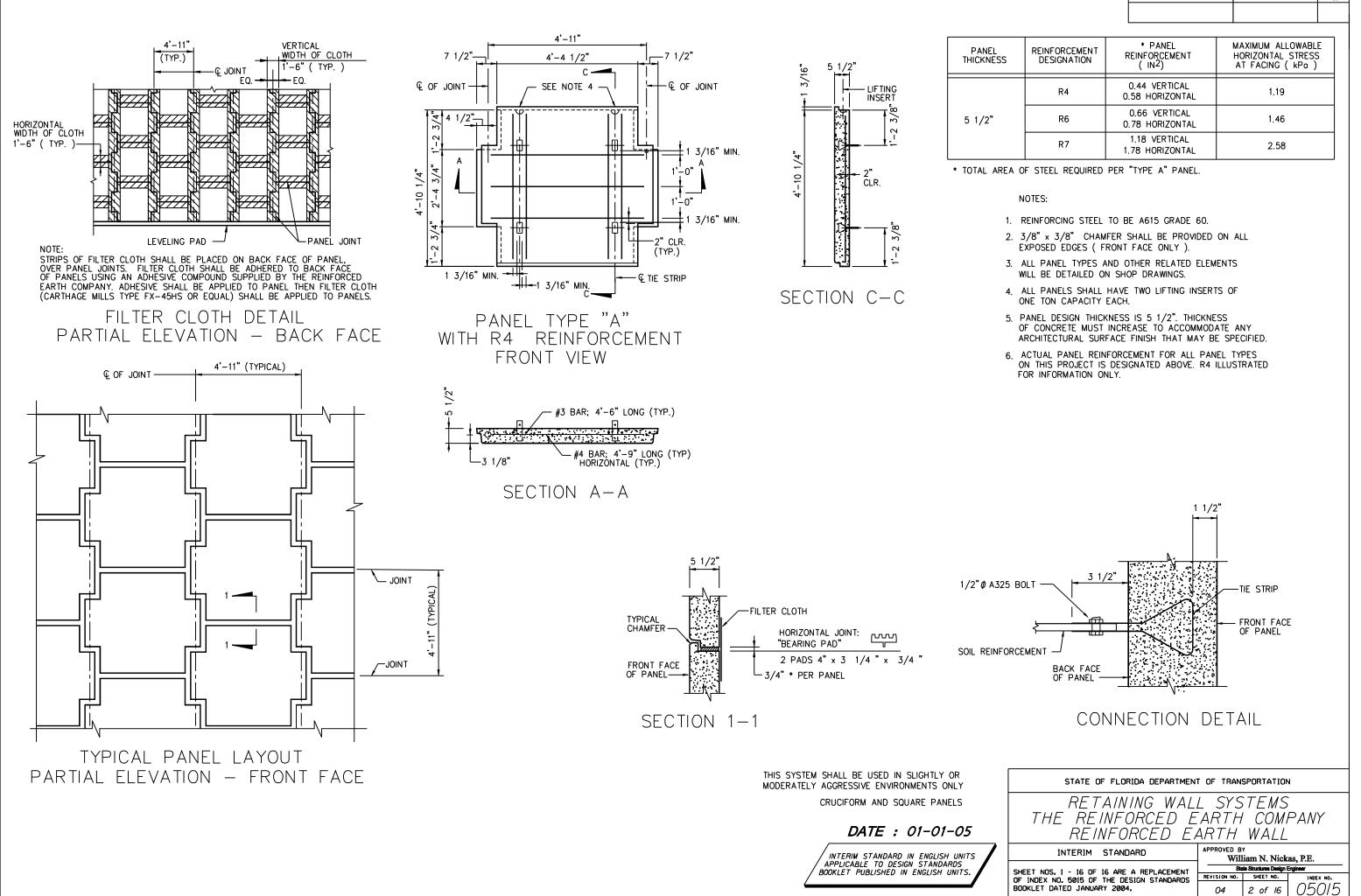
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CRUCIFORM AND SQUARE PANEL

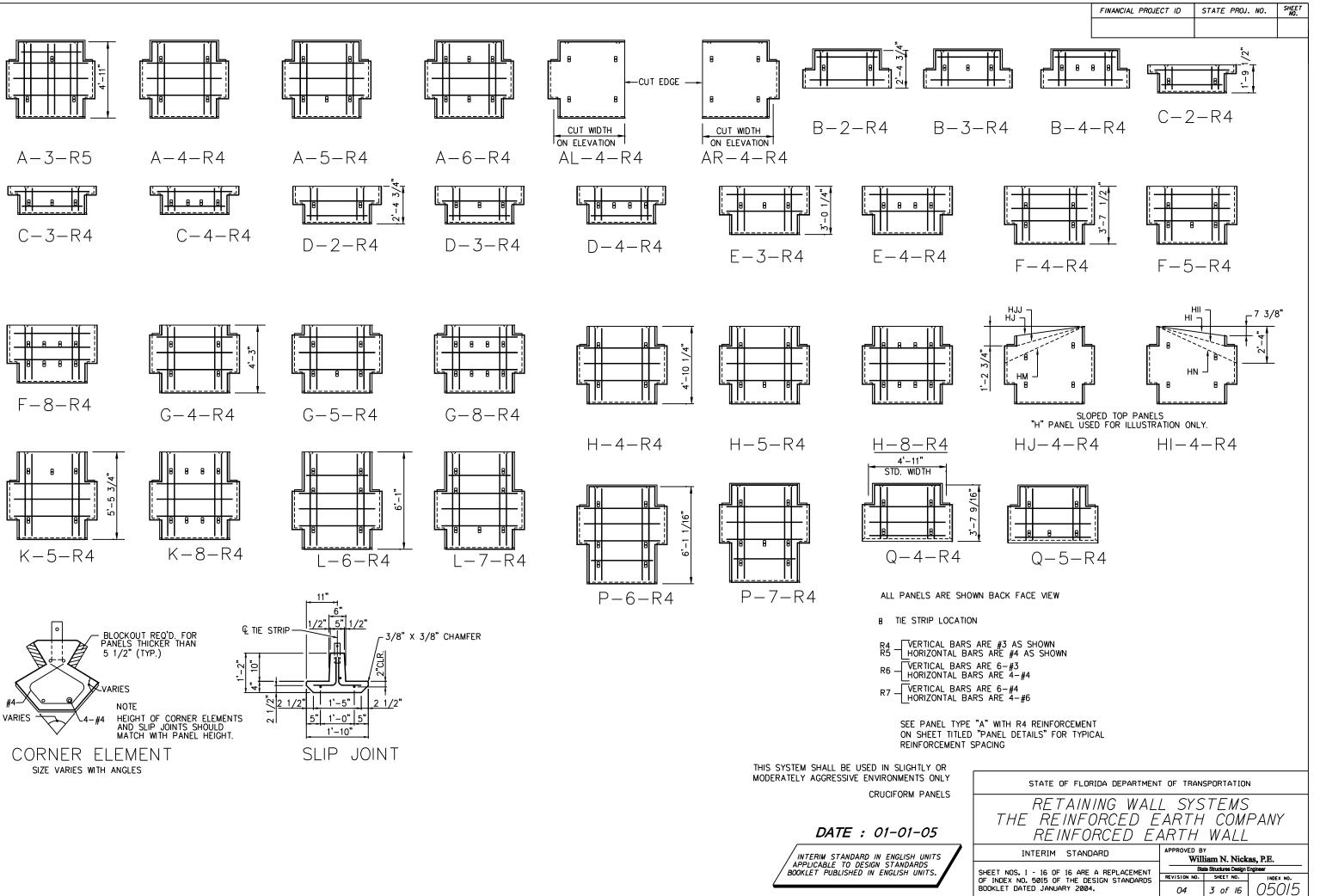


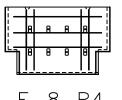
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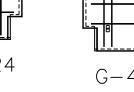
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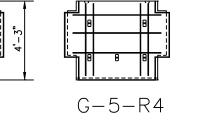


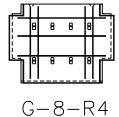
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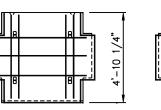


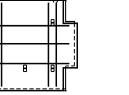


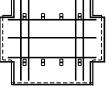


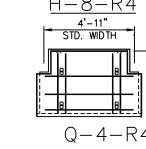


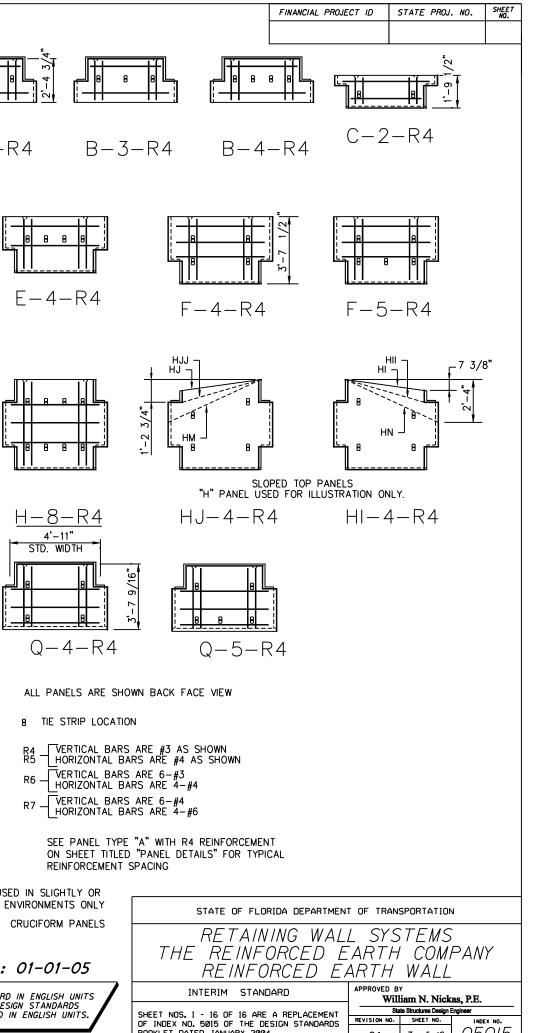


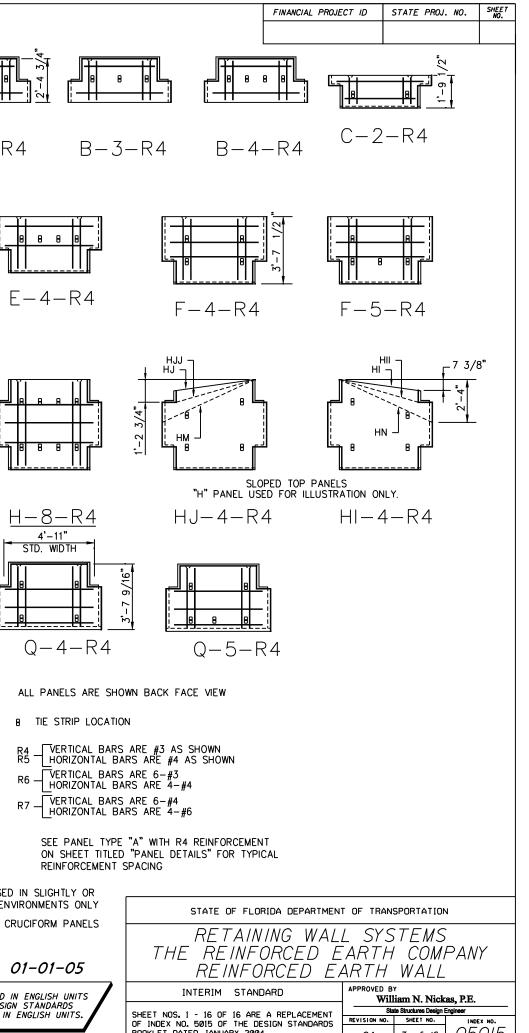


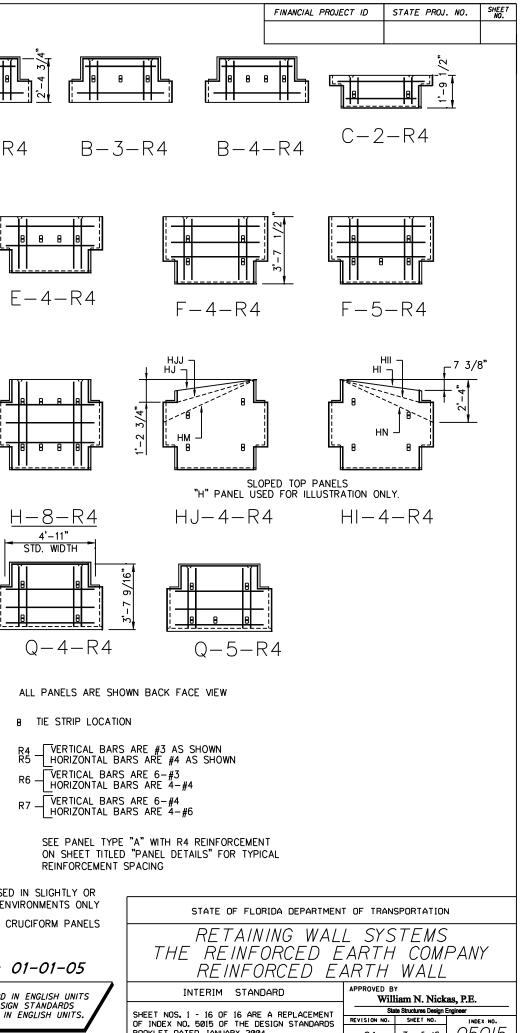




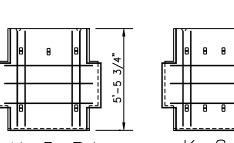


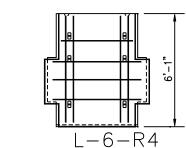


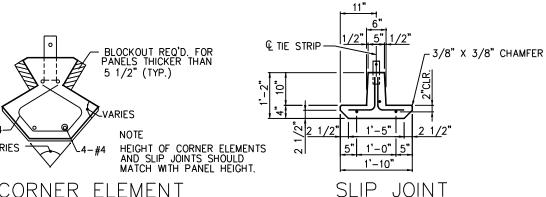


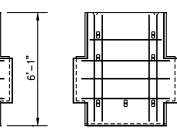


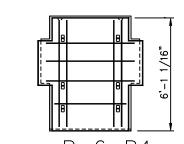


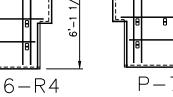


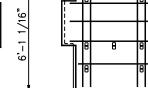


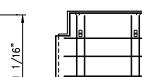


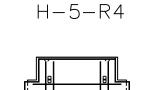


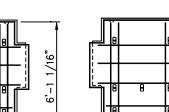


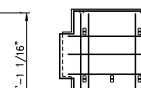


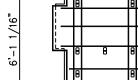




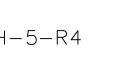




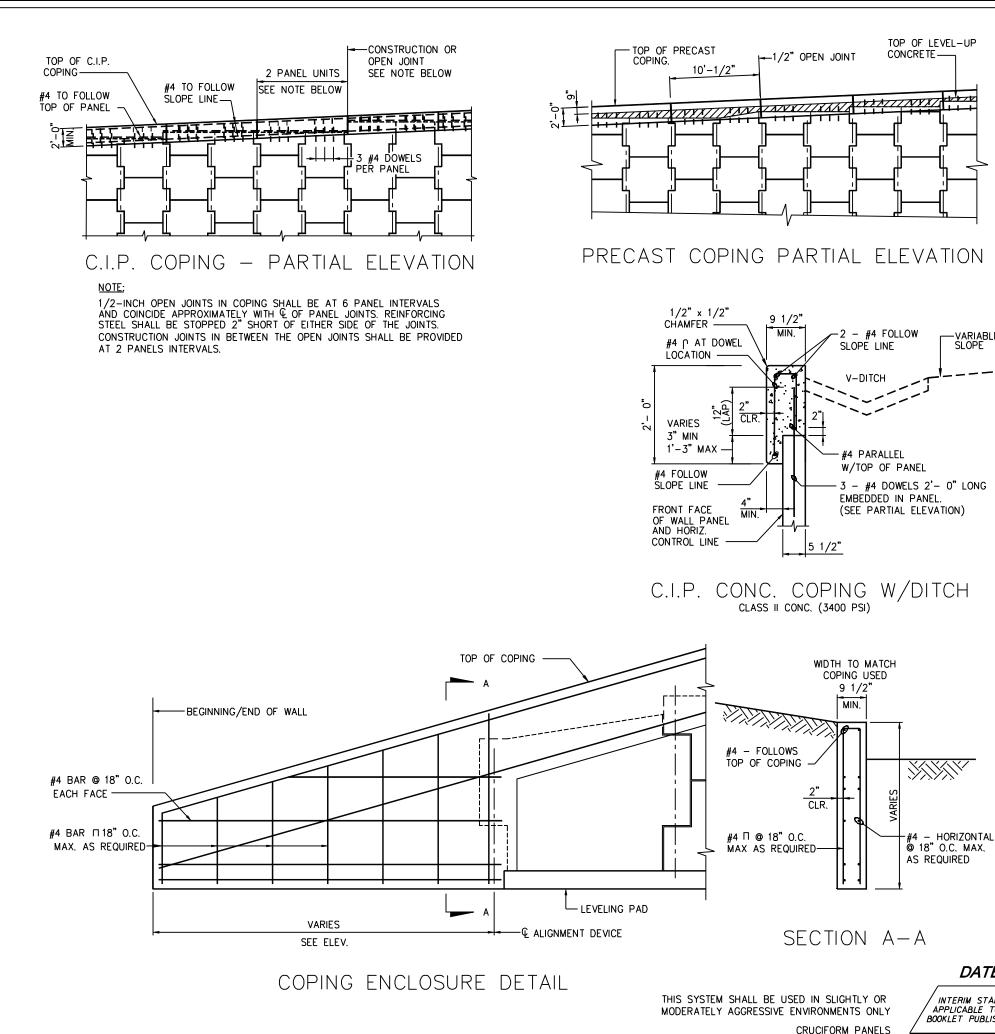












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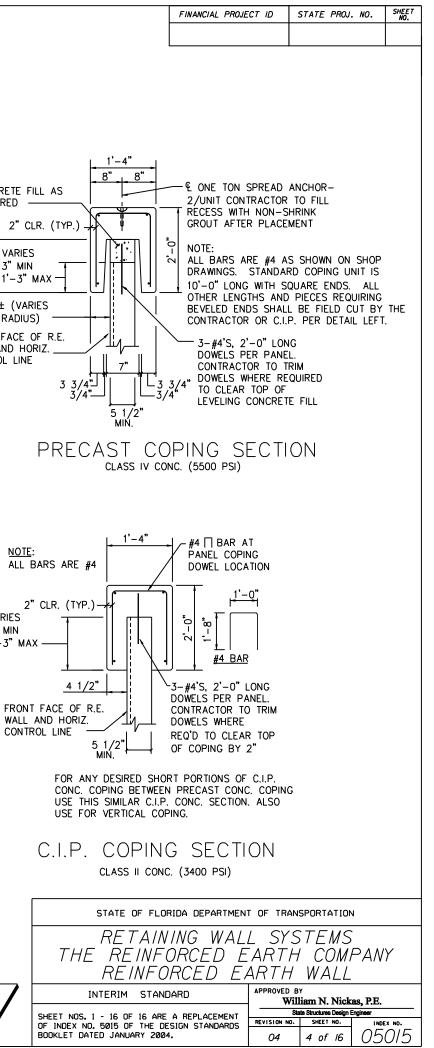
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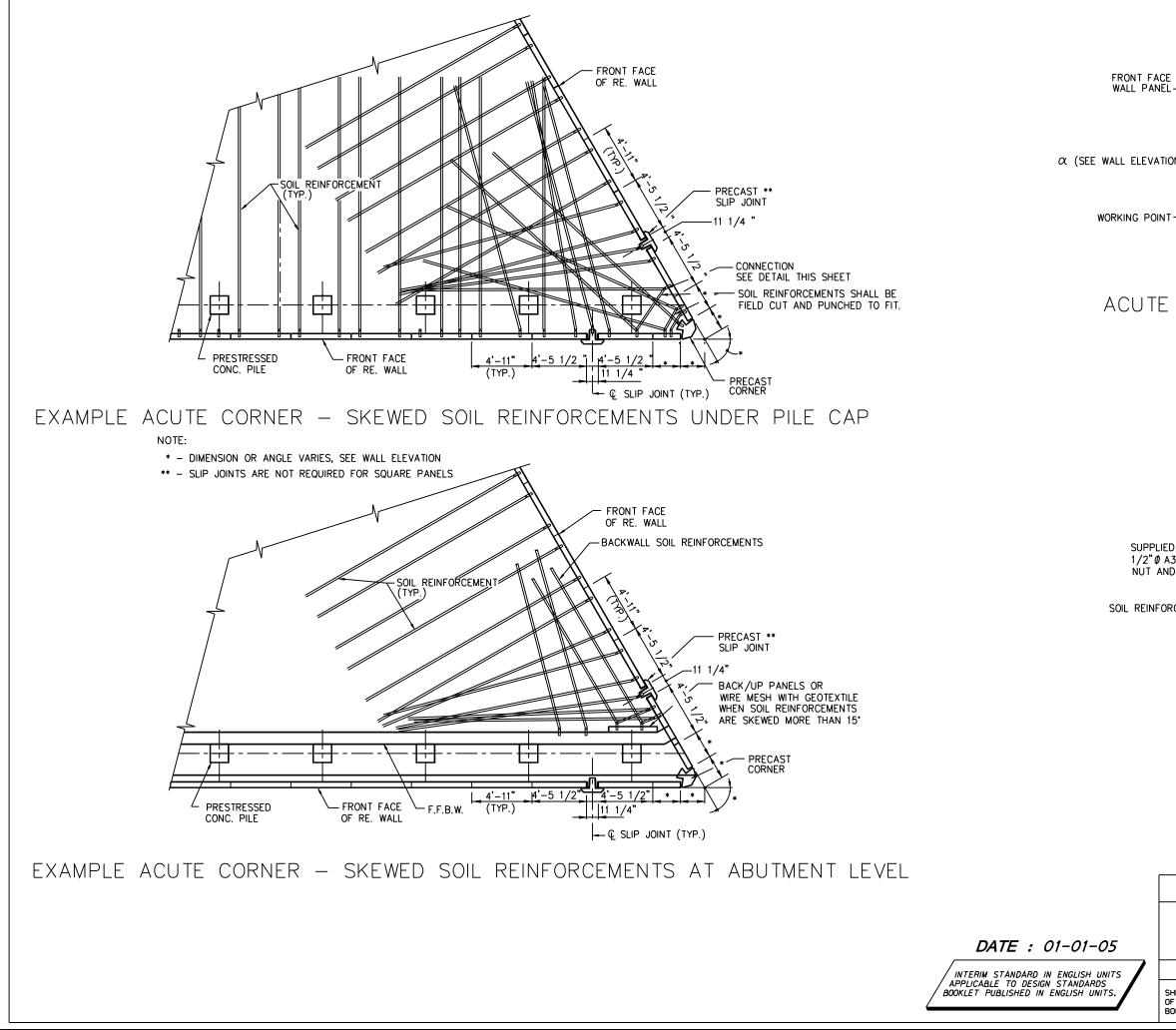
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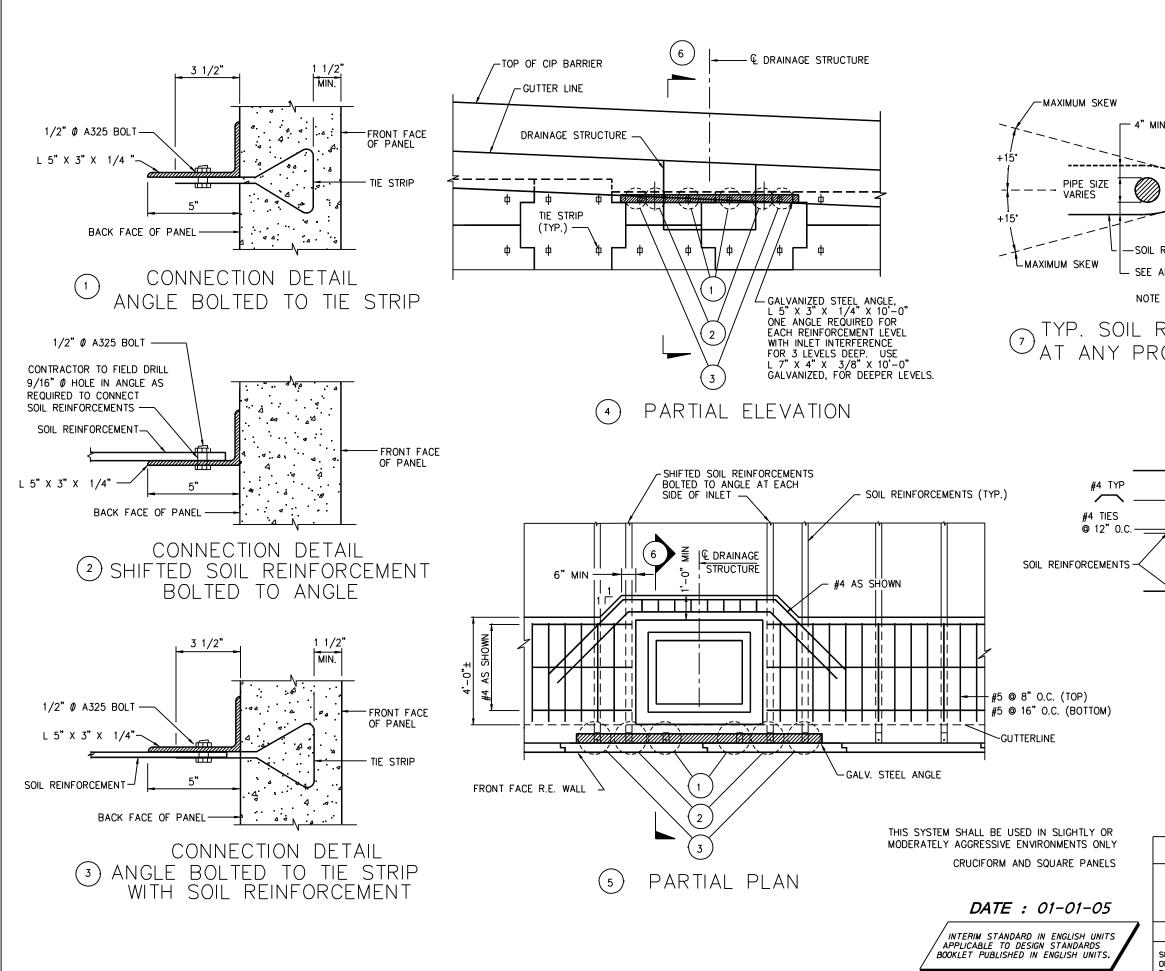
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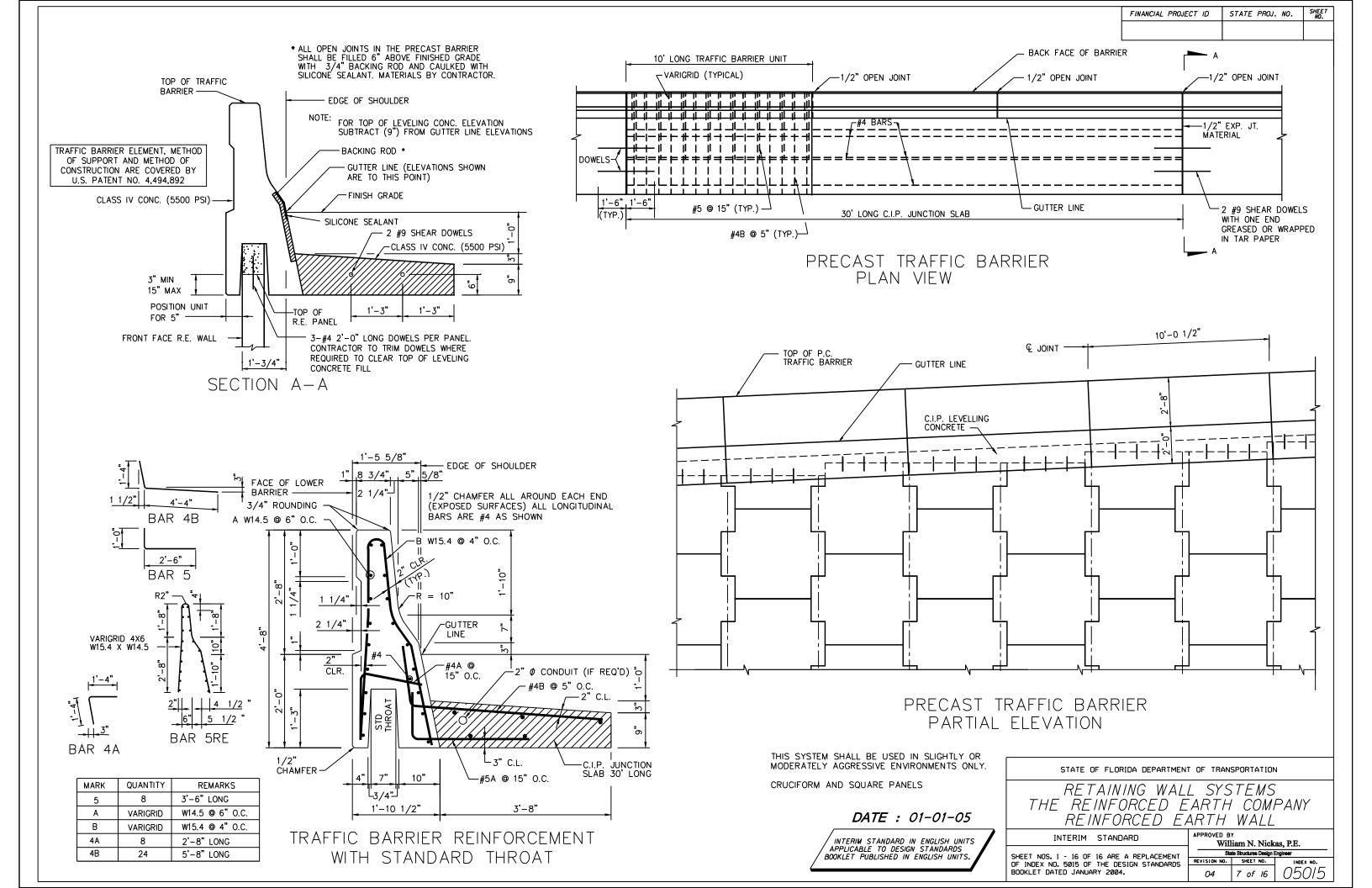


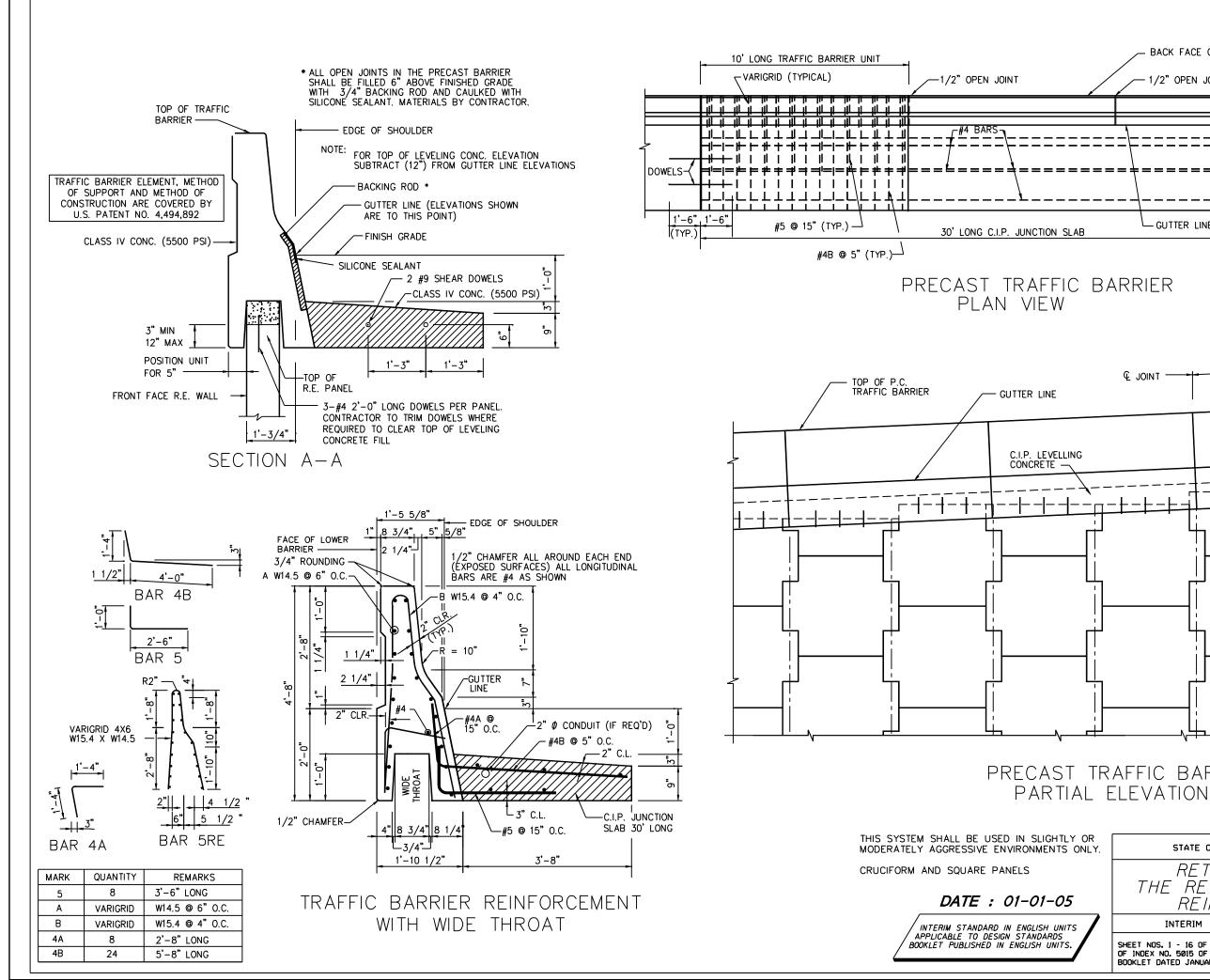


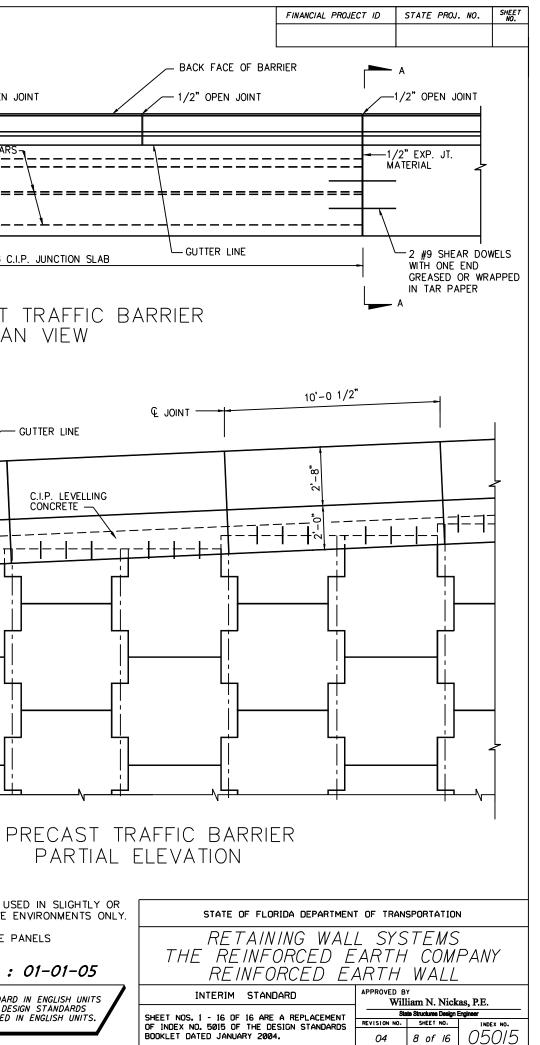
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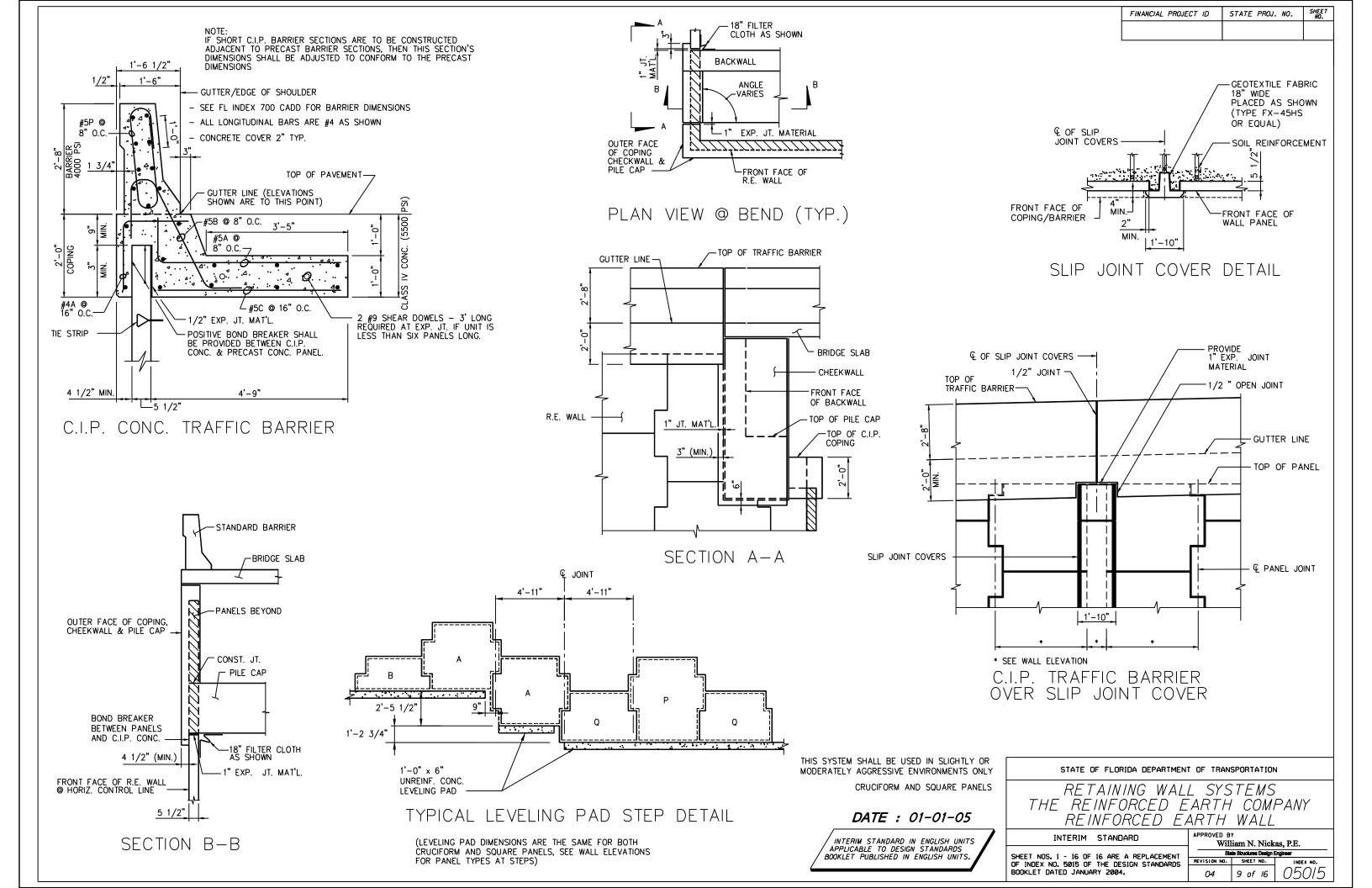


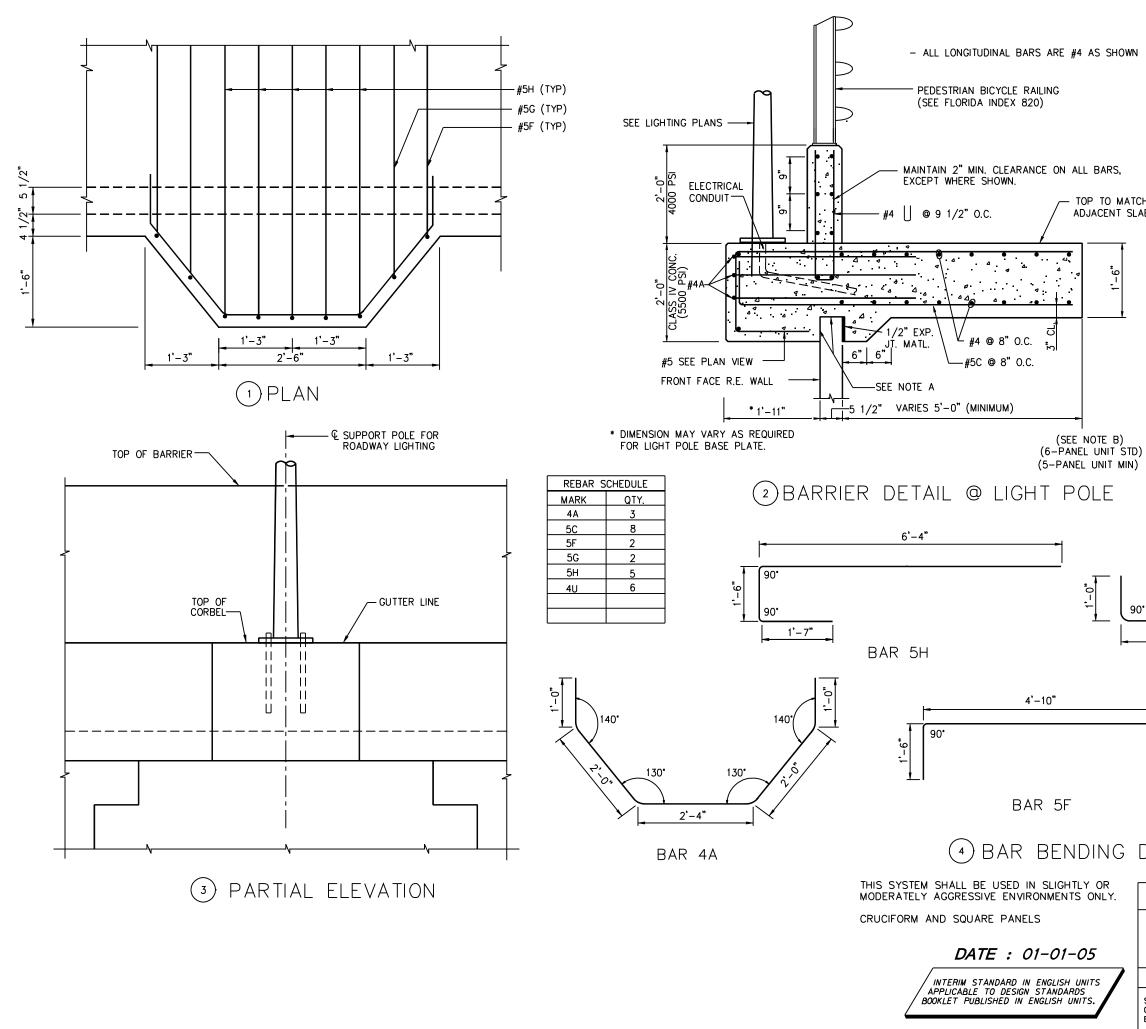
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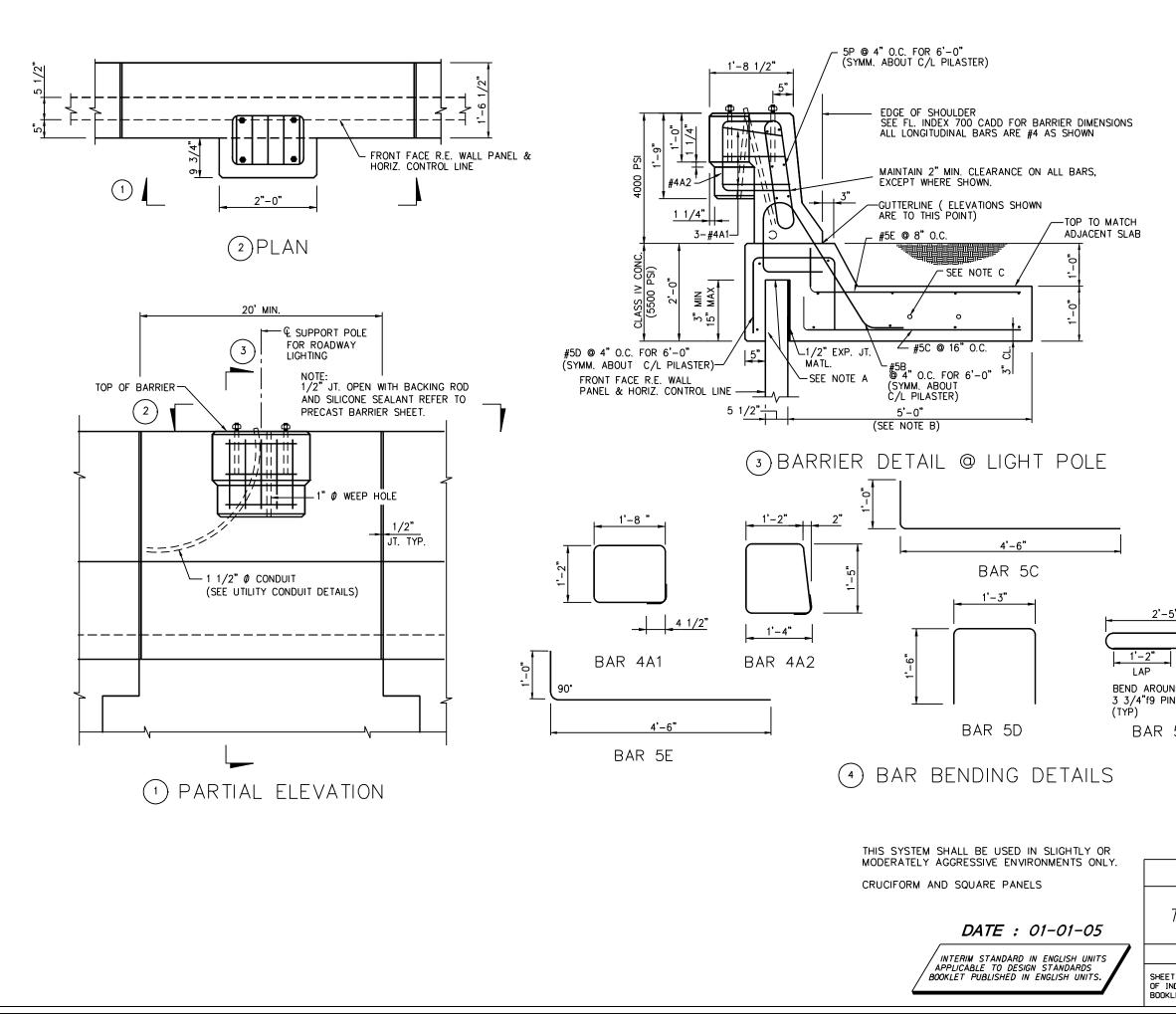




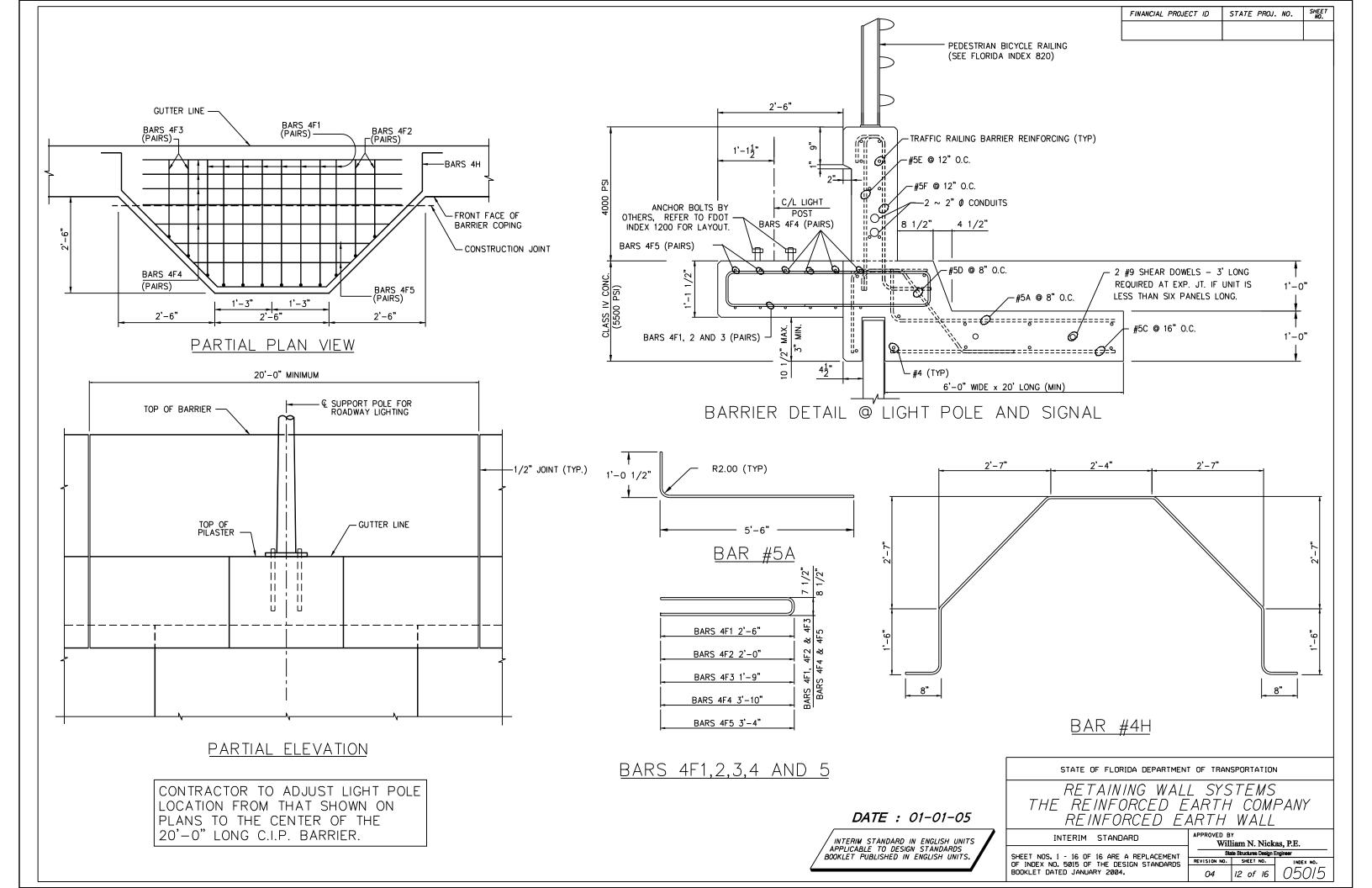


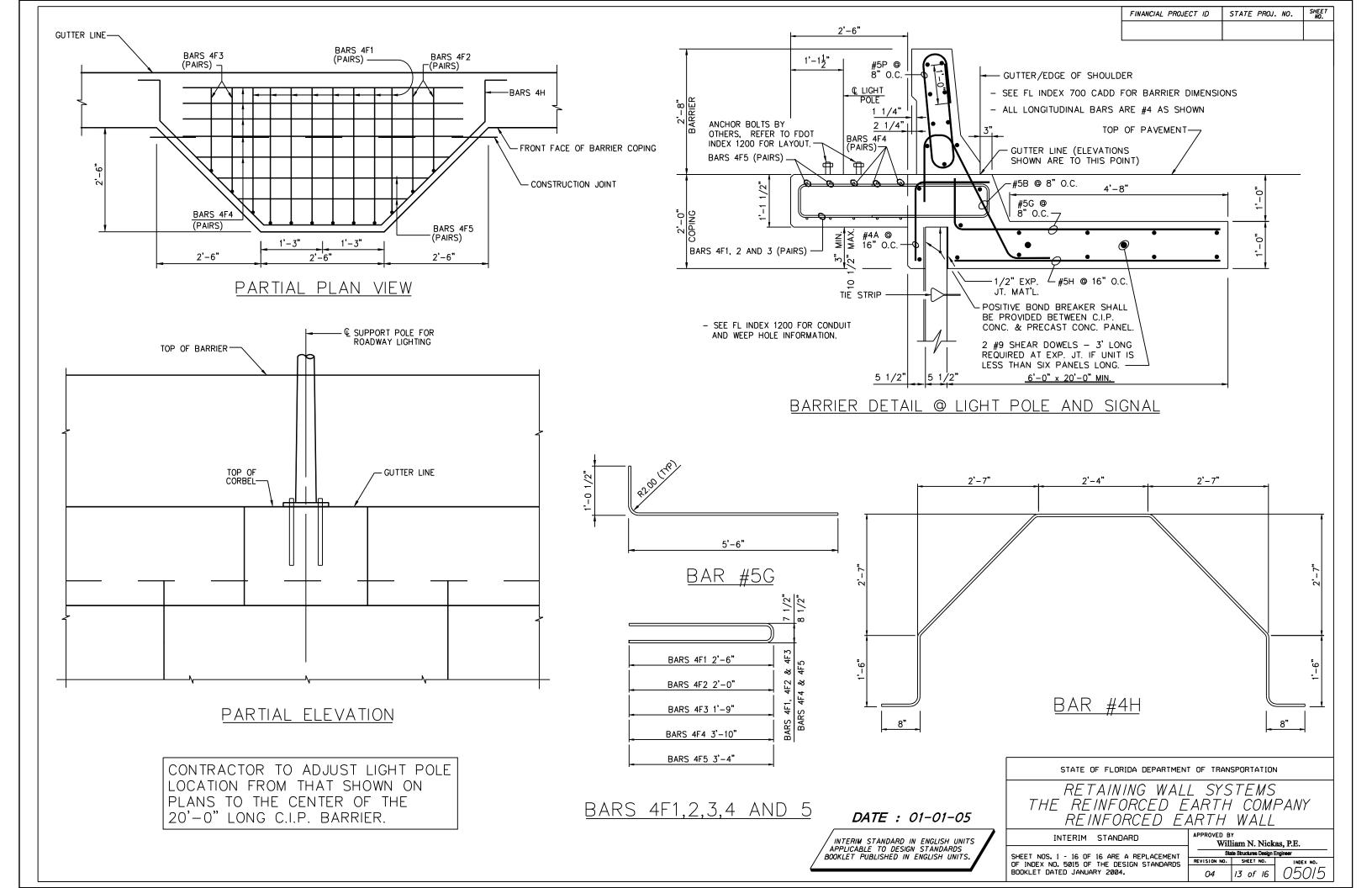


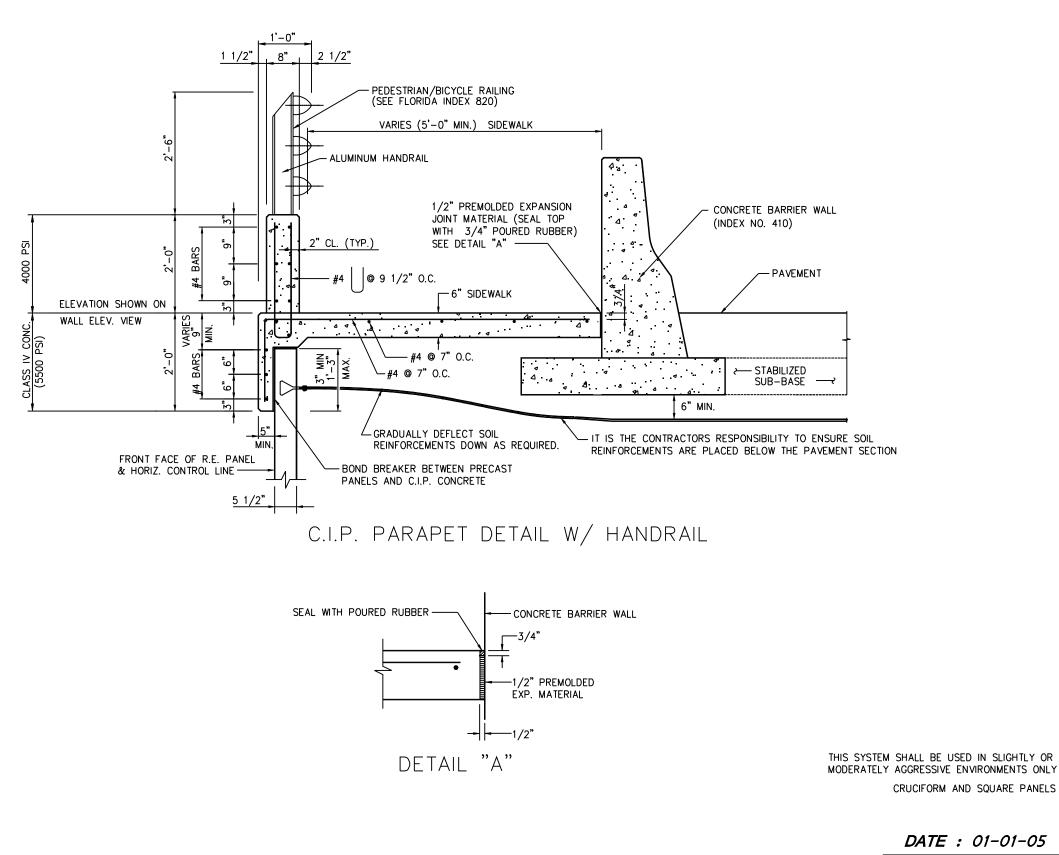
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BARRIER AN ARE DESIGN DIRECTION) THE PILAST LONGITU TRANSV/ LONGITU TRANSV/ TORSION AXIAL = IF THE LIGF EXCESS OF REDESIGN T DEPARTMEN SHALL BE F PROFESSION	PILASTER AND ND MOMENT SLAE IED TO RESIST W FROM THE LIGHT ER AS FOLLOWS: DINAL MOMENT = DINAL MOMENT = DINAL SHEAR = CRSE SHEAR = 0.4 KIP IT POLE PROVIDE THOSE SHOWN A HE PILASTER AN T FOR REVIEW. PREPARED, SIGNE IAL ENGINEER RE ND QUALIFIED TO	3 AREA S /ORKING F POLE A = 30 KIP 6 KIP-F 6 KIP-F 1 KIP 0.2 KIP D APPLII ABOVE, T D SUBMI THE COM THE COM CO AND S GISTEREI	SHOWN ON T LOADS (IN A IPPLIED AT T FT T T HE CONTRAC T THE DESIG TRACTOR'S R SEALED BY A D IN THE ST	HIS SHE NY HE TOF THE TOF TOR SH N TO T EDESIGI	P OF E IN HALL HE
ANCHOR BC	SUPPLIER IS RE DLTS THAT EFFEC S TO THE PILAST	TIVELY 1	RANSMIT TH	E LIGHT	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	35. 1'-0" AR 5B	125 [.]	4A1 4A2 5B 5C 5D 5E 5E	EDULE QTY. 3 5 18 4 18 9 18	
THE REINFO REINFO	RCED EA	ART I	H COM WALL	PAN	Y
		APPROVED	BY Tilliam N. Nick State Structures Design		
NOS. 1 - 16 OF 16 ARE DEX NO. 5015 OF THE DE ET DATED JANUARY 2004		REVISION NO		INDE	0/5

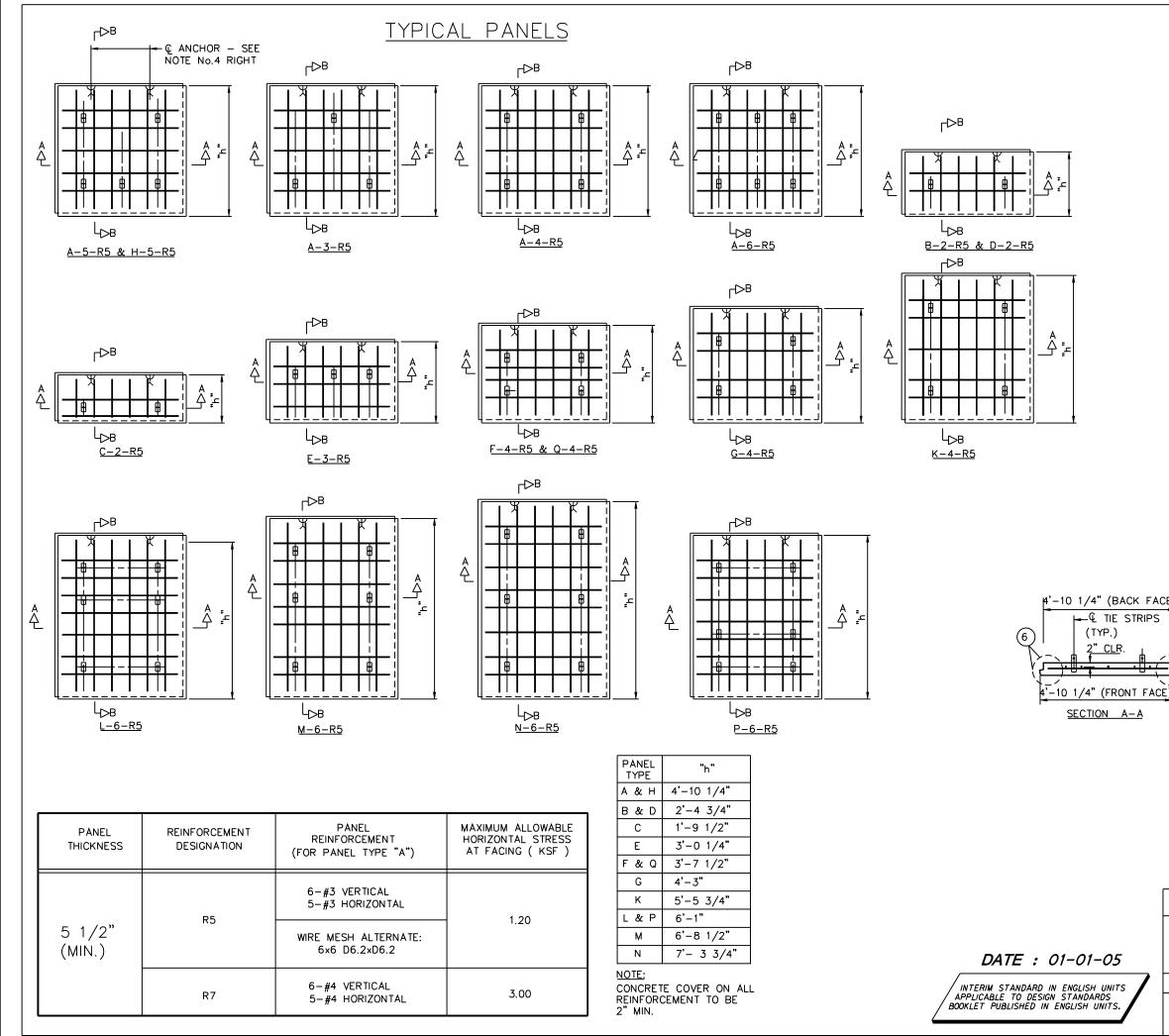






INTERIM STANDARD IN ENGLISH UNITS APPLICABLE TO DESIGN STANDARDS BOOKLET PUBLISHED IN ENGLISH UNITS.

	FINANCIAL PROJE	CT ID	STATE	PROJ.	NO.	SHEET NO.
STATE OF FLOP	RIDA DEPARTMEN	T OF TRA	NSPORT	ATION	l	
RETAIN	ING WAL	L SY	STE	MS		
THE REINFO	DRCED E	ART	н С(ЭMР	PANY	/
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SHEET NOS. 1 - 16 OF 16 ARE OF INDEX NO. 5015 OF THE DE	A REPLACEMENT SIGN STANDARDS	REVISION NO		NO.	INDEX	
BOOKLET DATED JANUARY 2004	h.	04	14 of	16	050)/5



	FINANCIAL PROJE	CT ID	STATE PR	OJ. NO.	SHEET NO.
NOTES: 1. REINFORCEMENT SHOW 60 STANDARDS. ALTE WELDED WIRE FABRIC FABRIC SHALL COMPLY DETAILED AND SHOWN FABRIC IS TO BE USED ON THE PANEL SHAPE	RNATE REINFOR AS INDICATED IN TO ASTM A497 ON PANEL SHO D THE SIZE SHO	CEMENT M THE TA C. REBAR DRAWIN JLD BE D	MAY BE DE BLE BELOW R LAYOUT NGS, IF WEI DETERMINEE	FORMED /, THIS WILL BE LDED) BASED)E
 1/2" x 1/2" CHAMF EXPOSED EDGES (F ALL PANEL TYPES A WILL BE DETAILED C ALL PANELS EXCEPT HAVE TWO BURKE 1 N, NII, NJJ, NI & N 	RONT FACE ON ND OTHER REL ON SHOP DRAW TTYPES M, N, -TON SPREAD	ILY). ATED E INGS. NII, NJJ ANCHOF	LEMENTS , NI & NJ RS. PANE	SHALL	
HEAD ANCHORS WIT 5. PANEL DESIGN STRU THIS THICKNESS MU ARCHITECTURAL SCU	H BOTH TENSIC ICTURAL THICK ST INCREASE T JLPTURED FINIS	ON AND NESS IS O ACCO H.	SHEAR B 5 1/2" N MMODATE	ARS. /INIMUM, ANY	
 ACTUAL LOCATION C ACCOMMODATE PANE PANEL REINFORCEME 1 3/16" CLEARANCE 	EL CASTING. ENT SHALL BE	PLACED	WITH A M		
	FOR L.M.N ONLY		1/2" (JZVZ ARIES AN		
STATE OF FLOF	RIDA DEPARTMEN	T OF TRA	NSPORTATI	ON	
RETAIN THE REINFO REINFO		ART /	H CON WAL	1 PAN	Ŷ
INTERIM STANE	ARD	APPROVED	'illiam N. Ni		
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