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OLDCASTLE PRECAST, INC

MISCELLANEOUS NOTES: I. DESIGNER:

THE NEEL COMPANY 8328-D TRAFORD LANF SPRINGFIFLD. VA 22152 PH+ (703) 9/3-7858 FX- (703) 9/3-7859

2 PRECASTER-DIDCASTLE PRECAST INC. HEAT INSTA STREET JACKSONVILLE . FL 32210

PH. (904) 778-2990 FX: (904) 778-2992 3. WATERIALS SUPPLIED BY PRECASTER:

-PRECAST ISOGRID PANELS -GALVANIZED SOIL REINFORCEMENT GRID -GALVANIZED GRID LOCKING BAR -DIAGONAL JOINT MATERIAL AND ADHESIVE -VERTICAL JOINT MATERIAL

DESIGN NOTES:

I. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE RETAINING WALL VOLUME. METHODS OF CONSTRUCTION. AND QUALITY OF PREFABRICATED WATERIALS SHALL CONFORM TO SPEC SECTION 548 - RETAINING WALL SYSTEMS.

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 VALUE OF 0. C AND GAMMA SHALL BE PROVIDED IN THE SHOP DRAWINGS

3. FACTORS OF SAFETY: -OVERTURNING - 2.0 -CHOING - 16 -INTERNAL PULLOUT - 1.5 (ALLOWABLE DEFORMATION 0.75°) -SOIL REINFORCEMENT GRID - 0.47 Fy AT END OF DESIGN LIFE -REARING CAPACITY - 25 -OVERALL STABILITY - 1.5

- 4. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL DESIGN DRAWINGS FOR EACH DESIGN CASE, IT IS THE RESPONSIBILITY OF THE OWNER TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- 5. THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE NEEL COMPANY IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY, EXTERNAL STABILITY DESIGN INCLUDING FOUNDATION AND SLOPE STABILITY. IS THE RESPONSIBILTY OF OTHERS

MATERIALS NOTES:

I. PRECAST CONCRETE: -PRECAST ISOGRID PANELS - PER SPEC SECTION 548 -ARCHITECTURAL FINISH SHALL RE PLAIN STEEL FORM FINISH

UNIESS OTHERWISE SPECIFIED ON THE RETAINING WALL CONTROL PLANS. 2 CIP CONCRETE.

-C LP LEVELING PAD - PER SPEC SECTION 548 -OTHER C.I.P. CONCRETE - PER SPEC SECTION 548 3. REINFORCING STEEL:

-PER SPEC SECTION 548 -6" x 6" WELDED GRID. D8 x D8 WIRE -03 REBAR @ 6"O.C. FACH WAY -WELDED PER ASTM A497 PRIOR TO GALVANIZATION

4. CONNECTION INSERT. -PER SPEC SECTION 548

WILLIAMOR -WELDED PER ASTM AIRS PRIOR TO GALVANIZATION

5 LOCKING BAR. -PER SPEC SECTION 548

6. SOIL REINFORCEMENT GRIDS: -PER SPEC SECTION 549 -WILWELDED WIRE GRIDS--5 LONGITUDINAL WIRES & 6"O.C. LENGTH AS REQUIRED BY DESIGN -2'LONG TRANSVERSE BARS AT 6"OR 12"O.C., AS REQUIRED BY DESIGN -SOUL GRID LENGTHS SHOWN ON ISOGRID DESIGN DRAWINGS ARE NOWINAL

7. JOINT WATERIAL: -DIAGONAL JOINT FILLERS -1/2" x 4" x 4"-2" -PREFORMED EPOM -DUROMETER: 80 - 90

-DIAGONAL JOINT BACKING -MIRAFIJAON OR FOUAL -IZ'WIDE & LENGTH OF JOINT -GEOTEXTILE MEETING REQUIREMENTS OF SPEC SECTION 548 WEEPHOLE COVER

TOLERANCES. ACTUAL GRID LENGTHS MAY BE LONGER.

-TENSAR DC4205 OR EQUAL -6" x 61/2" (MIN) -GEOCOMPOSITE MEETING REQUIREMENTS OF SPEC SECTION 548

8. BACKFILL -PER SPEC SECTION 548 CONSTRUCTION NOTES:

I. ALL CONSTRUCTION PROCEDURES SHALL COMPLY WITH SPEC SECTION SAR_R AND THE SCOORID CONSTRUCTION MANUAL "(PROVIDED BY THE NEEL COMPANY OR OLDCASTLE PRECAST. INC., IN THE EVENT OF A DISCREPANCY BETWEEN THE SPEC AND THE "SOCRID CONSTRUCTION MANUAL". THE SPEC SHALL CONTROL.

2. FOR LOCATION AND ALIGNMENT OF ISOGRID STRUCTURE. SEE RETAINING WALL CONTROL PLANS

3. ISOGRID STRUCTURES ON CURVES SHALL BE BUILT IN CHORDS AS SHOWN IN THE ISOGRID DESIGN DRAWINGS.

4. IF MANHOLES OR DROP INLETS ARE PRESENT. THEY SHALL BE LOCATED AS SHOWN IN THE ISOGRID DESIGN

5. IF PILES ARE LOCATED WITHIN THE RETAINING WALL VOLUME, THEY SHALL BE DRIVEN BEFORE CONSTRUCTION OF THE ISOCRIO STRUCTURE UNLESS & METHOD TO PROTECT THE STRUCTURE. WHICH IS ACCEPTABLE TO THE ENGINEER AND THE NEEL COMPANY. IS SUBMITTED AND APPROVED IN WRITING

6. IF A STRUCTURE EXCEEDS 20' IN HEIGHT. THE FINISH GRADE AT THE FACE OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS 20' IN HEIGHT.

LENGTHS AS REQUIRED BY DESIGN CALCULATIONS, DUE TO MANUFACTURING 7, IF FYISTING OR FITTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL POSTS WHICH ARE WITHIN THE RETAINING WALL VOLUME INTEFERE WITH THE NORMAL PLACEMENT OF REINFORCING GRIDS AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER

> 8. TOP PANELS ON WALLS WITH CAST-IN -PLACE COPING SHALL HAVE *4 REBAR PROTRUDING FROM THEIR TOP EDGE.

> 9. RACKELLI MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR MSE WALLS TO A LEVEL OF APPROXIMATELY 2" ABOVE THE CONNECTION INSERT EMBEDDED IN THE PANELS. INSTALLATION OF THE SOIL REINFORCEMENT SHALL BE PERWITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL WATERIAL HAS REACHED THE REQUIRED LEVEL.

> IO. COMPACTION AND OPERATION EQUIPMENT SHALL BE KEPT A MINIMUM DISTANCE OF 3' FROM THE BACK FACE OF THE ISOGRID PANELS, COMPACTION WITHIN 3' OF THE ISOGRID PANEL SHALL BE 90% OF AASHTO T-180.

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

12. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER DRAINAGE IN THE VICINITY OF THE WALL DURING CONSTRUCTION, STORMWATER RUNOFF SHALL BE COLLECTED AND DISCHARGED AWAY FROM THE WALL AND THE RETAINING WALL VOLUME.

ROAD DESIGN RETAINING WALL SYSTEM

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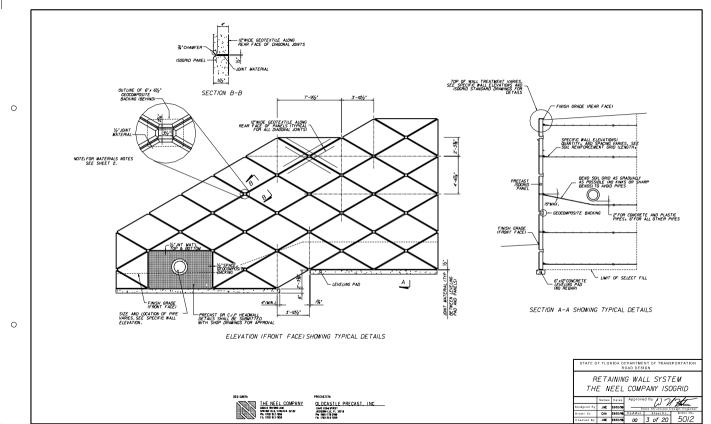
THE NEEL COMPANY ISOGRID

THE NEEL COMPANY

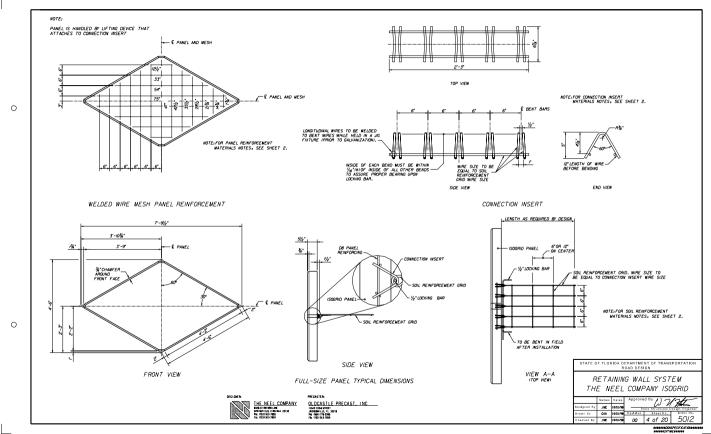
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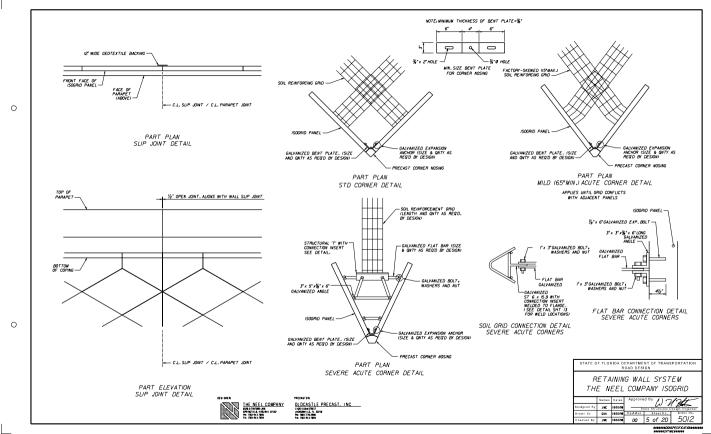
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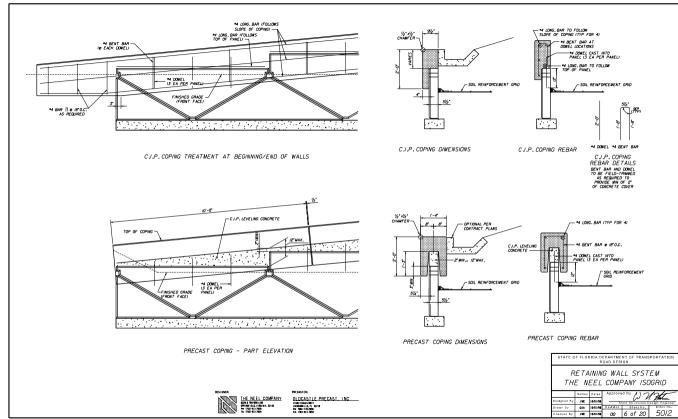
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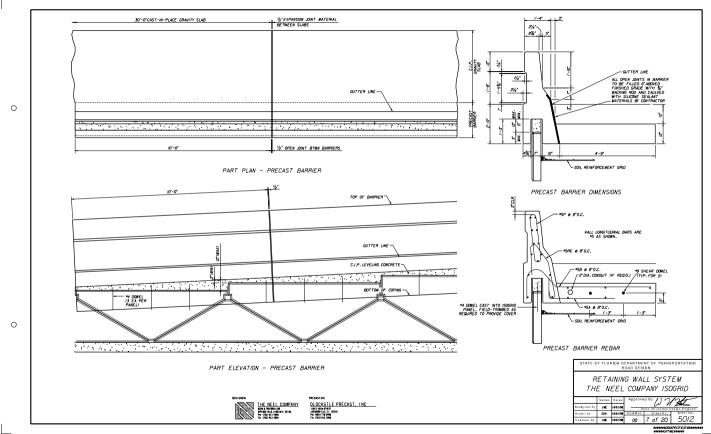


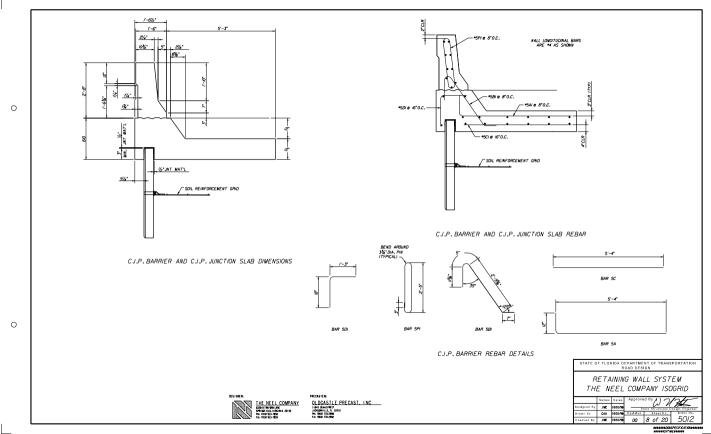
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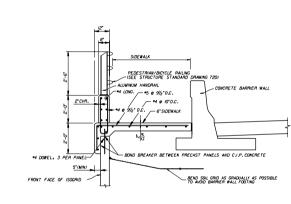












C.J.P. PARAPET DETAIL W/ HANDRAIL



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PRECASTER:

OLDCASTLE PRECAST, INC

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RETAINING WALL SYSTEM
THE NEEL COMPANY ISOGRID

THE NEEL COMPANY ISOGRID

THE STATE STATE SHOPPING BY JUNEAU STATES BY JUNEAU

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN

