NOTES:

FOR GABION RETAINING WALLS. SEE GABION RETAINING WALL PROVISION.

FOR HAND RAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

BEFORE BEGINNING GABION RETAINING WALL DESIGN, SURVEY EXISTING GROUND ELEVATIONS AND SUBMIT A WALL ENVELOPE FOR REVIEW. DO NOT START DESIGN UNTIL THIS ENVELOPE IS ACCEPTED.

AN ALLOWABLE BEARING OF 2,000 PSF SHALL BE VERIFIED PRIOR TO CONSTRUCTION OF THE WALL. IF NECESSARY THE CONTRACTOR SHALL PREPARE AND/OR MAKE GROUND MODIFICATIONS IN ORDER TO SATISFY THE MINIMUM BEARING PRESSURE.

DESIGN THE RETAINING WALL FOR A LIVE LOAD OF 250 PSF.

DESIGN THE RETAINING WALL FOR AN IMPACT LOAD OF 300 LB AT THE HAND RAIL.

THE MINIMUM EMBEDMENT FOR THE WALL IS 2 FEET BELOW THE PROPOSED OR EXISTING GROUND ELEVATIONS.

TRANSITION ENDS OF WALL BY SPILLING ADJACENT SLOPES SLOILS AROUND FACE OF WALL AS DIRECTED BY ENGINEER.

WHERE GABION RETAINING WALL INTERSECTS DRAINAGE PIPES, SUBMIT PENETRATION REINFORCEMENT DETAILS FOR APPROVAL PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION, SEE DRAINAGE PLANS FOR ADDITIONAL INFORMATION.

THE TOP OF WALL LOCATION, AS SHOWN IN THE DETAIL, CORRESPONDS TO WALL LOCATION SHOWN IN ROADWAY PLANS. THE CONTRACTOR/DESIGNER IS RESPONSIBLE FOR LOCATING THE FACE OF THE BOTTOM OF THE WALL SO THE TOP OF THE WALL LINES UP WITH THE CORRECT OFFSET AS SHOWN IN THE PLANS.

SEE ROADWAY PLANS FOR FINISH GRADE DETAILS.

EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL POSTS, PAVEMENTS, PIPES, INLETS, OR UTILITIES MAY INTERFERE WITH THE REINFORCEMENT FOR GABION RETAINING WALLS.

DESIGN GABION RETAINING WALL FOR A HEIGHT EQUAL TO DESIGN HEIGHT AND EMBEDMENT.

DESIGN GABION RETAINING WALL FOR THE FOLLOWING:

1) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT (WEIGHT Y) PCF	FRICTION ANGLE (\$) Degrees	COHESION (c) PSF
BACKFILL	120	32	0
FOUNDATION	120	30	100
EXISTING EMBANKMENT	120	30	100

TE REQUIRED, REMOVE EXISTING GABION RETAINING WALL BASKETS,

A WALL PROFILE WAS NOT AVAILABLE FOR INCLUSION IN THE PLANS

GABION INFILL MATERIAL IS ASSUMED TO HAVE A UNIT WEIGHT OF 145 PCF FOR DESIGN. THE CONTRACTOR SHALL VERIFY DESIGN BASED ON ACTUAL INFILL MATERIALS.

OVERLAP GEOTEXTILE A MINIMUM OF 18 INCHES OR AS DIRECTED BY THE ENGINEER.

BACKFILL BEHIND GABION WALL WITH CLASS II TYPE I SELECT MATERIAL IN ACCORDANCE WITH SECTION 1016 OF THE STANDARD SPECIFICATIONS.

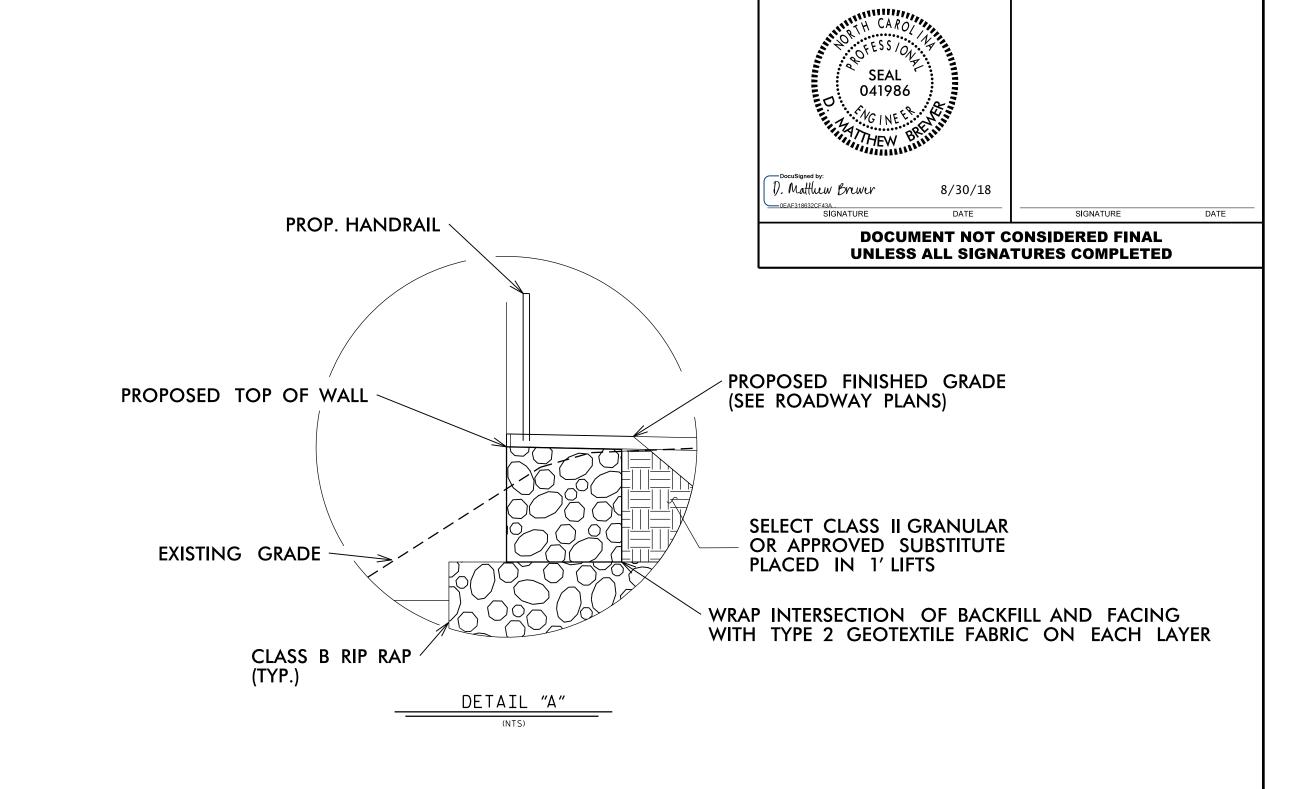
ESTIMATED GABION RETAINING WALL QUANTITY

(SQUARE FEET)

GABION RETAINING WALL** 300 SF

^{* *} EMBEDDED WALL NOT INCLUDED IN QUANTITY ESTIMATE

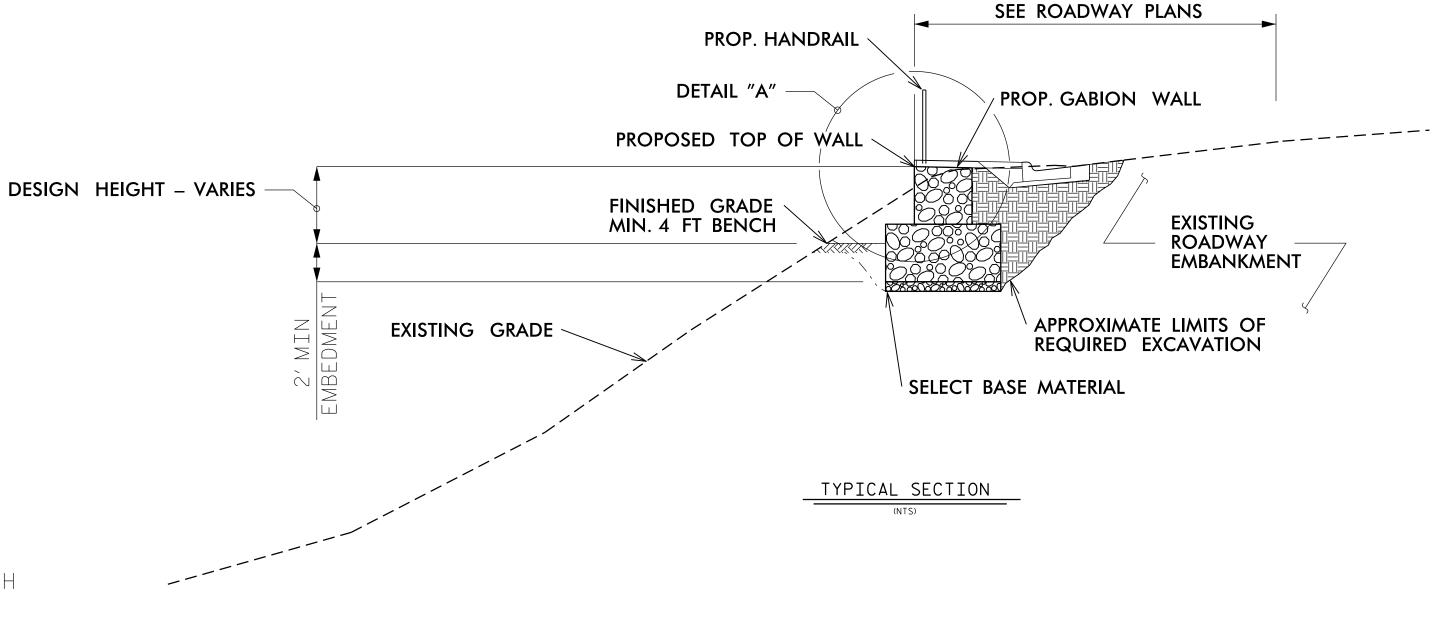
PREPARED BY: M. BREWER, P.E.	DATE: 8/28/18
REVIEWED BY: M WALKO P.E	DATE: 8/28/18



GEOTECHNICAL

ENGINEER

ENGINEER



PROJECT NO.:

44983

JACKSON COUNTY

DATE NO.

STATION: -Y4- 11+75.00 & 12+50.00, LT

SHEET 2 OF 3

GABION RETAINING WALL DETAILS

GEOTECHNICAL ENGINEERING UNIT

NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

Prepared in the Office of:

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NC REGISTERED ENGINERING

FIRM # F-1078

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