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GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

DocuSigned by: Jeremy R Hamm 8/22/2019
4622D234BBC46A...
SIGNATURE DATE

SIGNATURE DATE

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POT Sta. 10+00.00

BEGIN CONSTRUCTION
-Y4- POT 11+25.00

S 88° 59' 36.3" E

PC Sta. 11+71.53

PT Sta. 12+39.60

-L- POC Sta. 54+43.03
-Y3- POT Sta. 10+00.00
S 77° 19' 15.2" E (-Y3- AH)

PC Sta. 52+82.34

N 15° 44' 53.0" E

WILLIAM N HUBBARD
DB 378 PG 124
PB 2 PG 545

14 WILLIAM N HUBBARD
DB 378 PG 124
PB 2 PG 545

19 CHATUGE PLAZA LLC
DB 329 PG 07
PB 4 PG 1827

JAMES ANDREWS
DB 264 PG 272
PB 4 PG 622

21 TIGHE K WHITE
DB 293 PG 21
PB 4 PG 472

20 THREE PONDS HOLDINGS LLC
DB 358 PG 20
PB 4 PG 472

J RANDALL HALES TRUSTEE
DB 351 PG 115
PB 5 PG 289

-L- POC Sta. 62+90.5
-Y5- POT Sta. 10+00.0
N 86° 29' 34.5" E (-Y5-

BM #5
-BL- STA. 48+59.87
151.97' LT
ELEV. 2021.38'

BM#4

PC Sta. 10+64.49

15 SAEED MUNSHI
DB 316 PG 219

13

16 JOYPHIL MOUNTAIN LLC
DB 381 PG 12
PB 5 PG 621

17 EMPIREGAS INC OF HIAWASSE
DB 185 PG 194

PC Sta. 13+22.18

PT Sta. 13+27.59

BEGIN CONSTRUCTION
-Y2- POT 13+00.00

-Y3- POC Sta. 11+30.06
-Y2- POT Sta. 14+00.99
N 3° 45' 14.5" W (-Y2- BK)

-L- POC Sta. 58+50.00
-Y4- POT Sta. 13+94.32
S 85° 05' 36.4" E (-Y4- BK)

BEGIN RETAINING WALL 1
& PEDESTRAIN SAFETY RAIL
-L- STA. 59+85.00 (54' RT)

END RETAINING WALL 1
& PEDESTRAIN SAFETY RAIL
-L- STA. 61+75.00 (58' RT)

18 RICHARD WIEGOLD TRUSTEES
DB 389 PG 70
PB 4 PG 513

PROP. RETAINING WALL 1

NC 69
SR 1115 18' ASPHALT
MCDONALD RD
SUNDOWNER CIR
NC 69 40' ASPHALT

PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 59+85, 54' RT TO 61+75, 58' RT

SHEET 1 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

FALCON ENGINEERING

FALCON ENGINEERING, INC.
1210 TRINITY ROAD, SUITE 110
RALEIGH, NC 27607

PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 1 WALL PLAN

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-1
2			4			

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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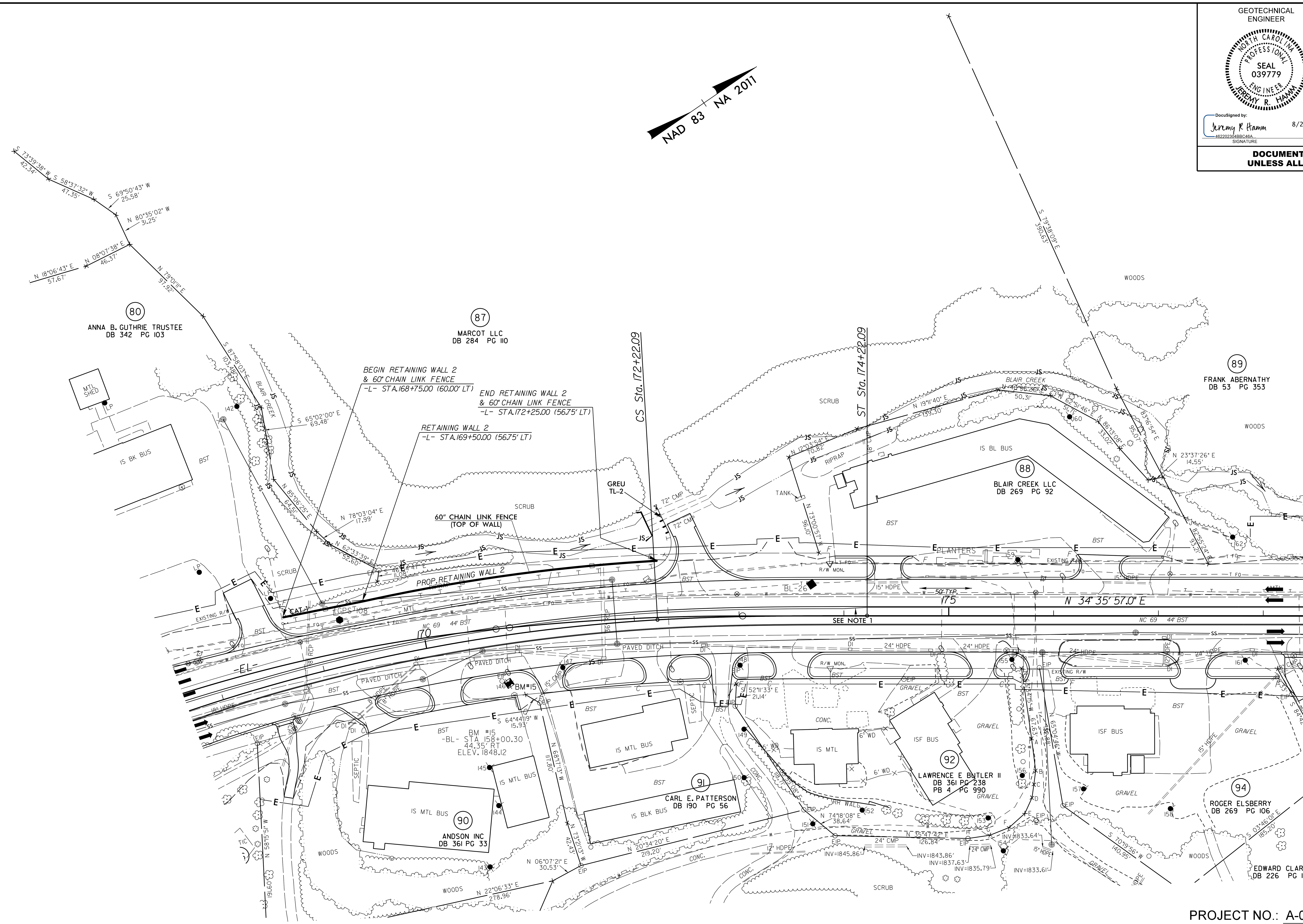

PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 168+75, 60' LT TO 172+25, 56.75' LT

SHEET 2 OF 8

FALCON ENGINEERING

FALCON ENGINEERING, INC.
1210 TRINITY ROAD, SUITE 110
RALEIGH, NC 27607

PHONE: 919.871.0800
FAX: 919.871.0803

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 2
WALL PLAN

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-2

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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SIGNATURE DATE

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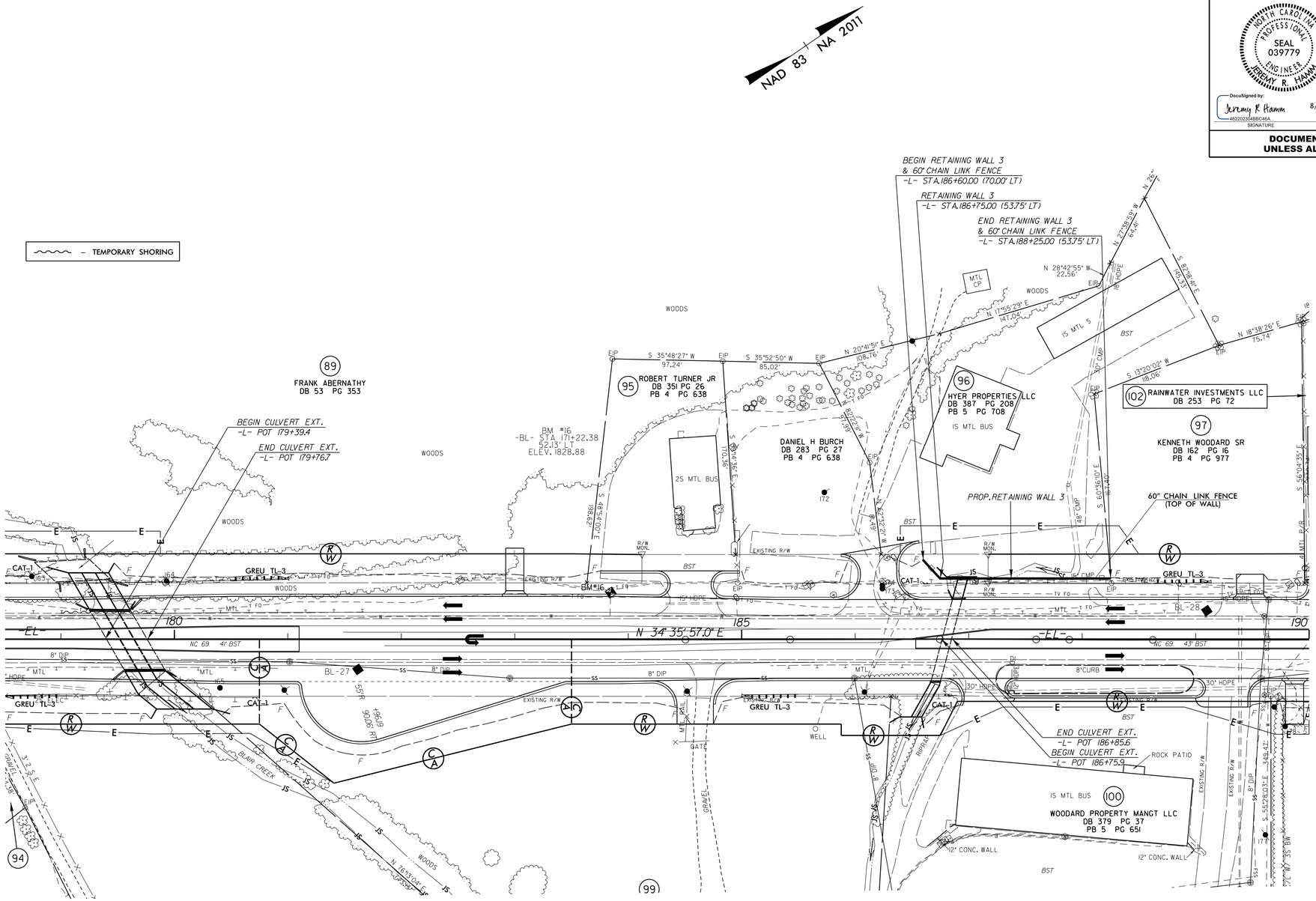

PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 186+60, 70' LT TO 188+25, 53.75' LT

SHEET 3 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

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RALEIGH, NC 27607

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

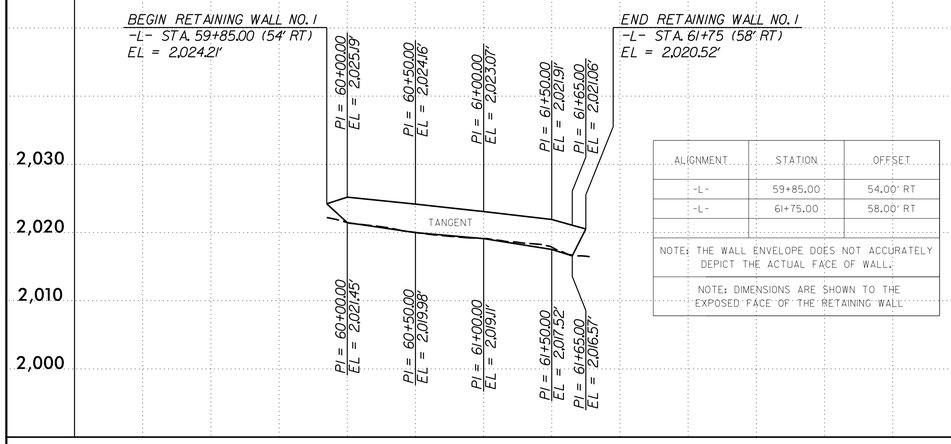
GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 3 WALL PLAN

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-3
2			4			

WALL 1

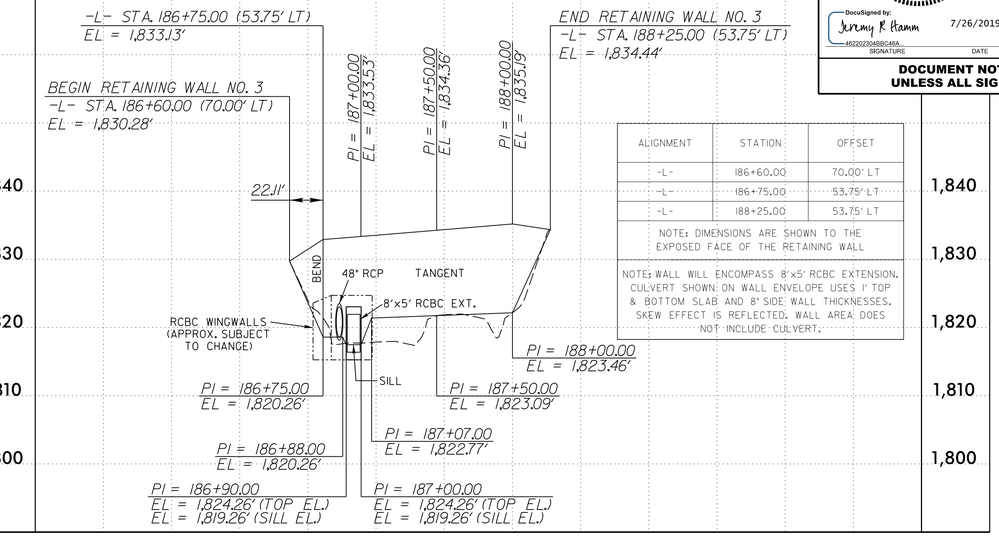
WALL ADJACENT –L–



ALIGNMENT	STATION	OFFSET
-L-	59+85.00	54.00' RT
-L-	61+75.00	58.00' RT
NOTE: THE WALL ENVELOPE DOES NOT ACCURATELY DEPICT THE ACTUAL FACE OF WALL.		
NOTE: DIMENSIONS ARE SHOWN TO THE EXPOSED FACE OF THE RETAINING WALL		

WALL 3

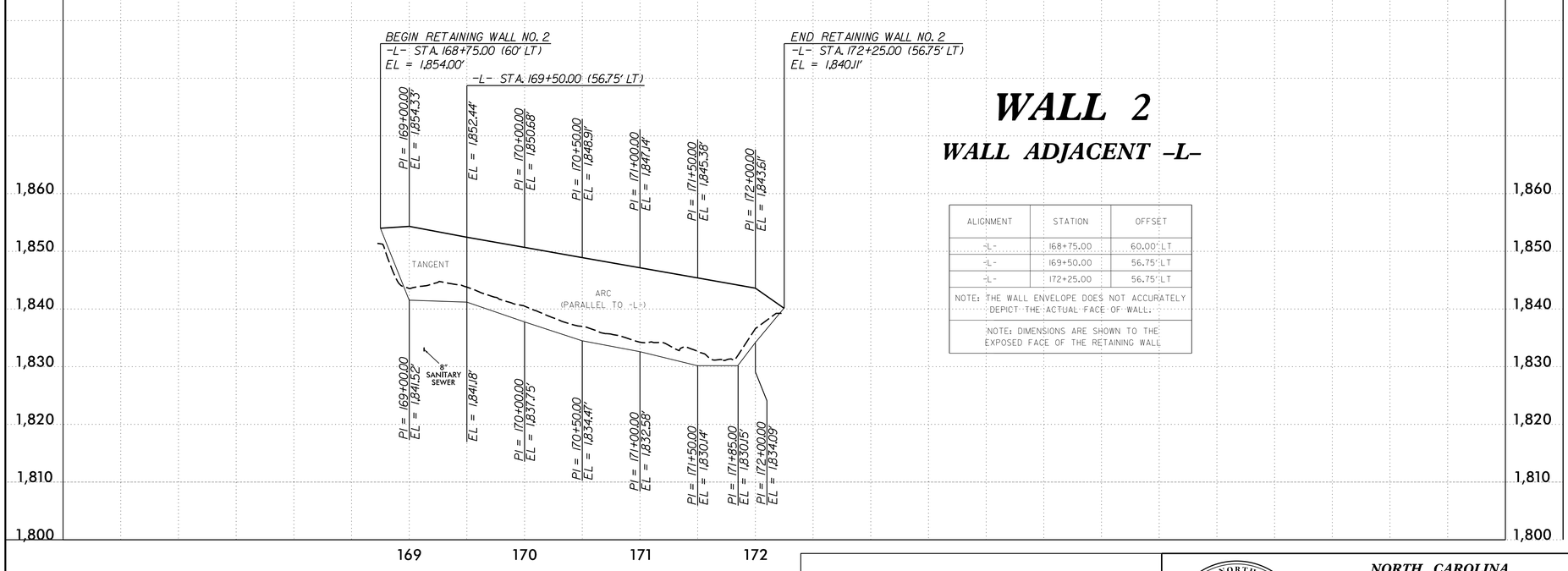
WALL ADJACENT –L–



ALIGNMENT	STATION	OFFSET
-L-	186+60.00	70.00' LT
-L-	186+75.00	53.75' LT
-L-	188+25.00	53.75' LT
NOTE: DIMENSIONS ARE SHOWN TO THE EXPOSED FACE OF THE RETAINING WALL		
NOTE: WALL WILL ENCOMPASS 8'x5' RCBC EXTENSION. CULVERT SHOWN ON WALL ENVELOPE USES 1' TOP & BOTTOM SLAB AND 8" SIDE WALL THICKNESSES. SKEW EFFECT IS REFLECTED. WALL AREA DOES NOT INCLUDE CULVERT.		

WALL 2

WALL ADJACENT –L–



ALIGNMENT	STATION	OFFSET
-L-	168+75.00	60.00' LT
-L-	169+50.00	56.75' LT
-L-	172+25.00	56.75' LT
NOTE: THE WALL ENVELOPE DOES NOT ACCURATELY DEPICT THE ACTUAL FACE OF WALL.		
NOTE: DIMENSIONS ARE SHOWN TO THE EXPOSED FACE OF THE RETAINING WALL		

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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ESTIMATED WALL QUANTITIES (SQUARE FEET)	
MSE RETAINING WALL NO. 1	1060 SF
MSE RETAINING WALL NO. 2	5740 SF
ANCHORED RETAINING WALL	2690 SF

PROJECT NO.: A-0011C

CLAY COUNTY

STATION:

SHEET 4 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

FALCON ENGINEERING

FALCON ENGINEERING, INC.
1210 TRINITY ROAD, SUITE 110
RALEIGH, NC 27607

PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

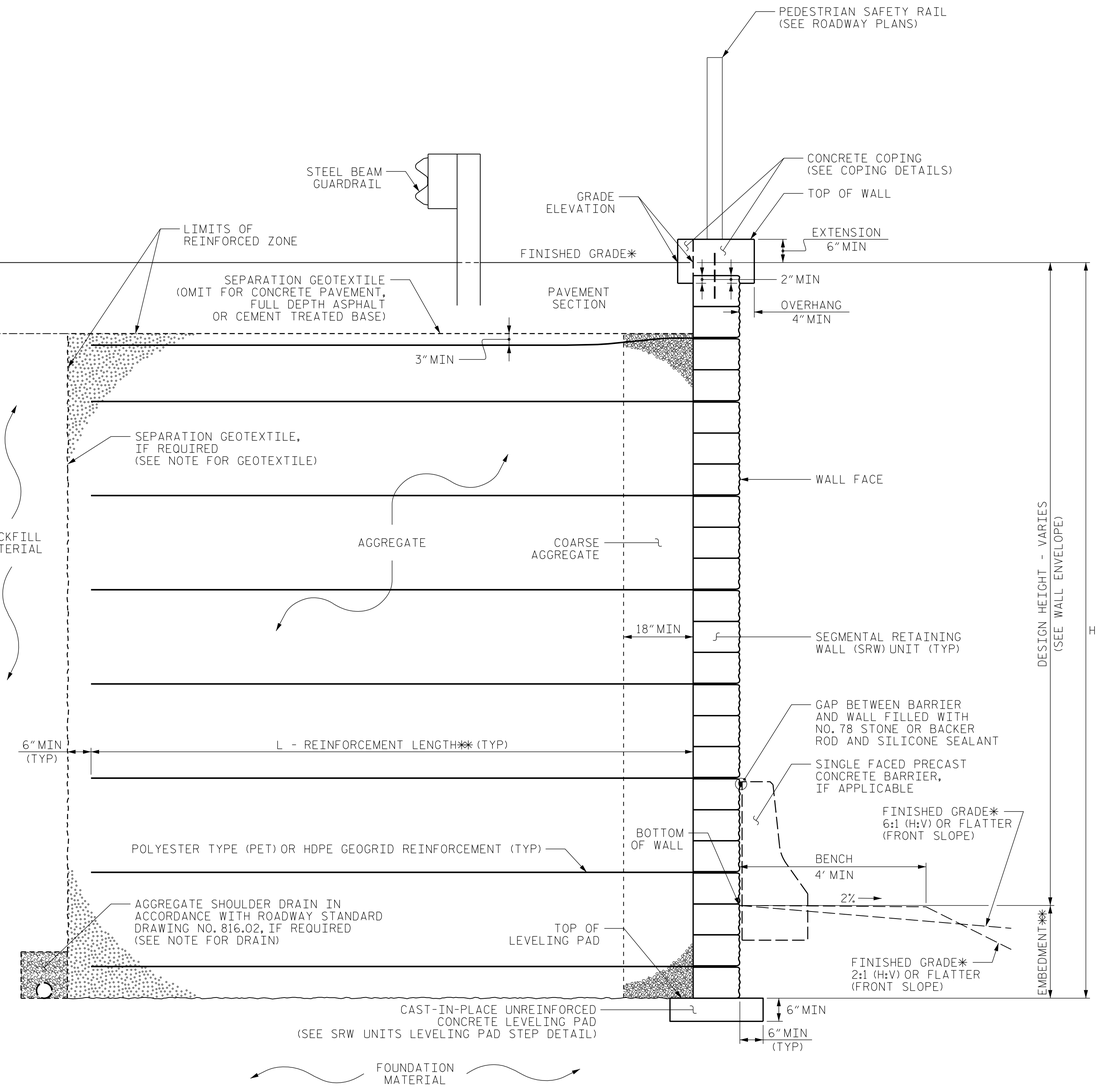
GEOTECHNICAL ENGINEERING UNIT

RETAINING WALLS NO. 1, 2, & 3 ENVELOPES

REVISIONS

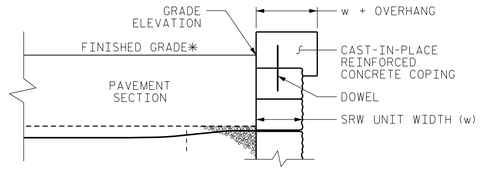
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

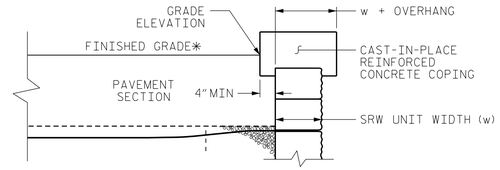
SHEET NO. W-4



MSE WALL WITH SRW UNITS - TYPICAL SECTION

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.
**SEE MSE RETAINING WALLS PROVISION AND IF APPLICABLE, MSE WALL NOTES FOR EMBEDMENT AND REINFORCEMENT LENGTH REQUIREMENTS.





COPING DETAILS

AT THE CONTRACTOR'S OPTION, CONNECT COPING TO SRW UNITS WITH DOWELS OR EXTEND COPING DOWN BACK OF SRW UNITS.
*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 59+85, 54' RT TO 61+75, 58' RT

SHEET 5 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

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FALCON ENGINEERING, INC.
1210 TRINITY ROAD, SUITE 110
RALEIGH, NC 27607

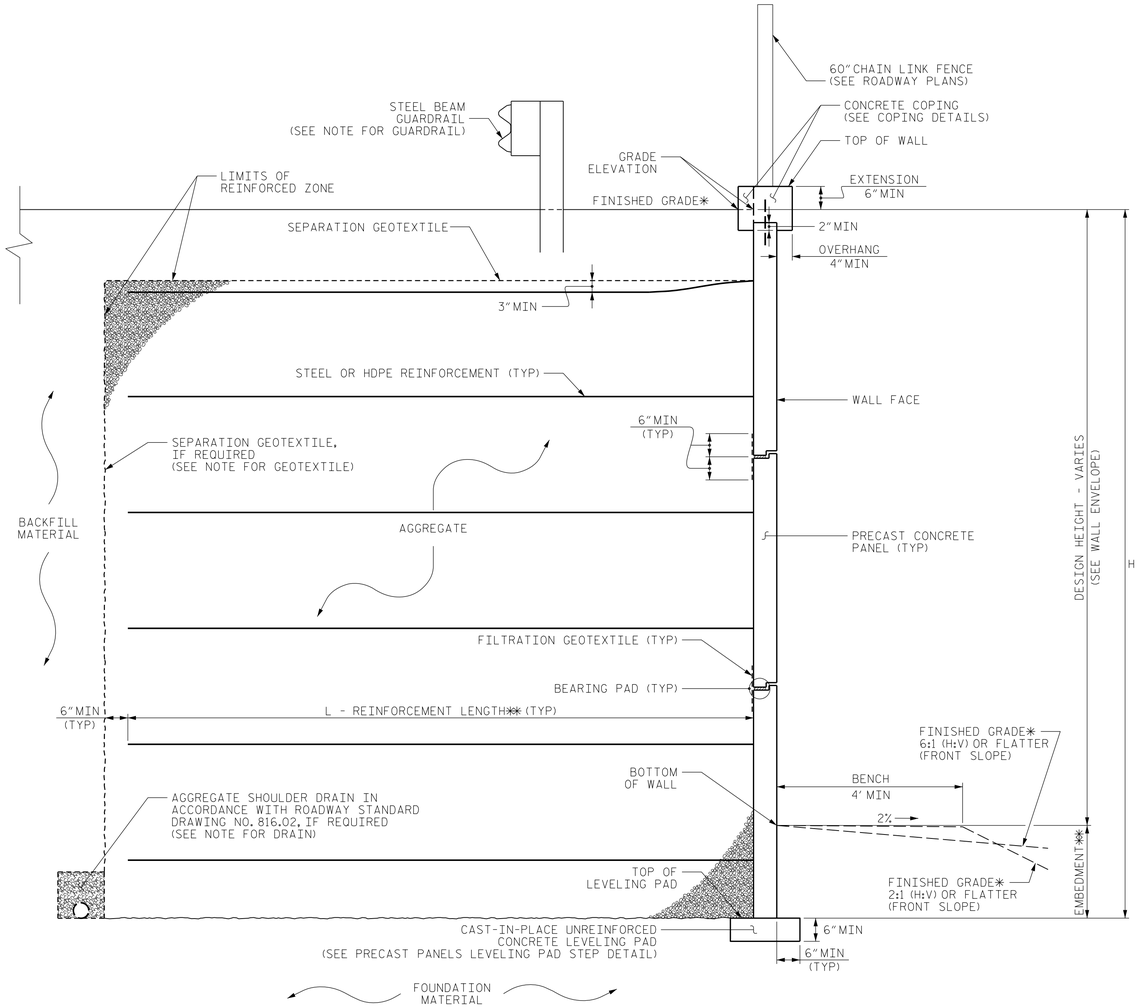
PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

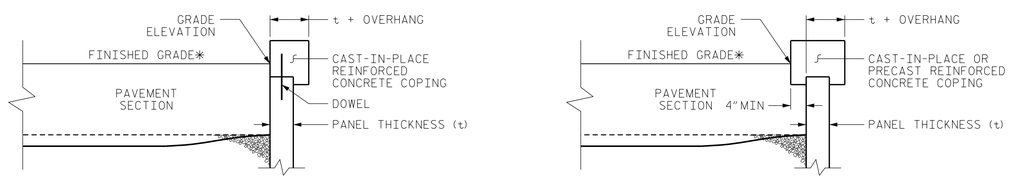
RETAINING WALL NO. 1
MSE WALL WITH SRW UNITS
TYPICAL DETAIL

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-5
2			4			



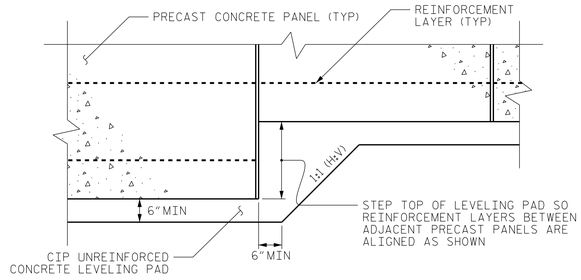
MSE WALL WITH PRECAST PANELS - TYPICAL SECTION

*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.
**SEE MSE RETAINING WALLS PROVISION AND IF APPLICABLE, MSE WALL NOTES FOR EMBEDMENT AND REINFORCEMENT LENGTH REQUIREMENTS.



COPING DETAILS

AT THE CONTRACTOR'S OPTION, CONNECT COPING TO PANELS WITH DOWELS OR EXTEND COPING DOWN BACK OF PANELS.
*SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



PRECAST PANELS LEVELING PAD STEP DETAIL

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 168+75, 60' LT TO 172+25, 56.75' LT

SHEET 5 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

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RALEIGH, NC 27607

PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 2
MSE WALL WITH PRECAST PANELS TYPICAL DETAIL

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-6

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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462202304BBC46A...
SIGNATURE DATE

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NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION.

FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

USE AN MSE WALL SYSTEM WITH SEGMENTAL RETAINING WALL (SRW) UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS FOR RETAINING WALL NO. 1.

WHEN USING AN MSE WALL SYSTEM WITH SRW UNITS FOR RETAINING WALLS NO. 1 AND 2, FREEZE-THAW DURABLE SRW UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS ARE REQUIRED.

AT THE CONTRACTOR'S OPTION, USE FINE AGGREGATE IN THE REINFORCED ZONE OF RETAINING WALLS NO. 1 OF 2.

CIP REINFORCED CONCRETE COPING IS REQUIRED FOR RETAINING WALL NO. 1.

A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALLS NO. 1 AND 2.

A DRAIN IS REQUIRED FOR RETAINING WALLS NO. 1 AND 2.

BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALLS NO. 1 AND 2, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

DESIGN RETAINING WALL NO. 1 FOR THE FOLLOWING:
1) H = DESIGN HEIGHT + EMBEDMENT
2) DESIGN LIFE = 100 YEARS
3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 2,050 PSF
4) MINIMUM REINFORCEMENT LENGTH (L) = 0.85 H OR 6 FT, WHICHEVER IS LONGER
5) MINIMUM EMBEDMENT DEPTH = 2 FT
6) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TYPE*	UNIT WEIGHT (γ) PCF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) PSF
COARSE	110	38	0
FINE	115	34	0
*SEE MSE RETAINING WALLS PROVISION FOR COARSE AND FINE AGGREGATE MATERIAL REQUIREMENTS.			

7) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT (γ) PCF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) PSF
BACKFILL	120	30	0
FOUNDATION	110	28	0

DESIGN RETAINING WALL NO. 2 FOR THE FOLLOWING:
1) H = DESIGN HEIGHT + EMBEDMENT
2) DESIGN LIFE = 100 YEARS
3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 4,500 PSF
4) MINIMUM REINFORCEMENT LENGTH (L) = 0.8 H OR 6 FT, WHICHEVER IS LONGER
5) MINIMUM EMBEDMENT DEPTH = 4 FT
6) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TYPE*	UNIT WEIGHT (γ) PCF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) PSF
COARSE	110	38	0
FINE	115	34	0
*SEE MSE RETAINING WALLS PROVISION FOR COARSE AND FINE AGGREGATE MATERIAL REQUIREMENTS.			

7) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT (γ) PCF	FRICTION ANGLE (ϕ) DEGREES	COHESION (c) PSF
BACKFILL	120	30	0
FOUNDATION	110	28	0

DESIGN RETAINING WALL NO. 1 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NO. 1.

DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALL NO. 1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

AT THE CONTRACTOR'S OPTION, "TEMPORARY SHORING FOR WALL CONSTRUCTION" MAY BE USED TO CONSTRUCT RETAINING WALL NO. 1. SEE MSE RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION.

PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 59+85, 54' RT TO 61+75, 58' RT
168+75, 60' LT TO 172+25, 56.75' LT

SHEET 6 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

FALCON ENGINEERING

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PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALLS NO. 1 AND 2 MSE WALL NOTES

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-7
2			4			

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

DocuSigned by: Jeremy R Hamm 8/22/2019
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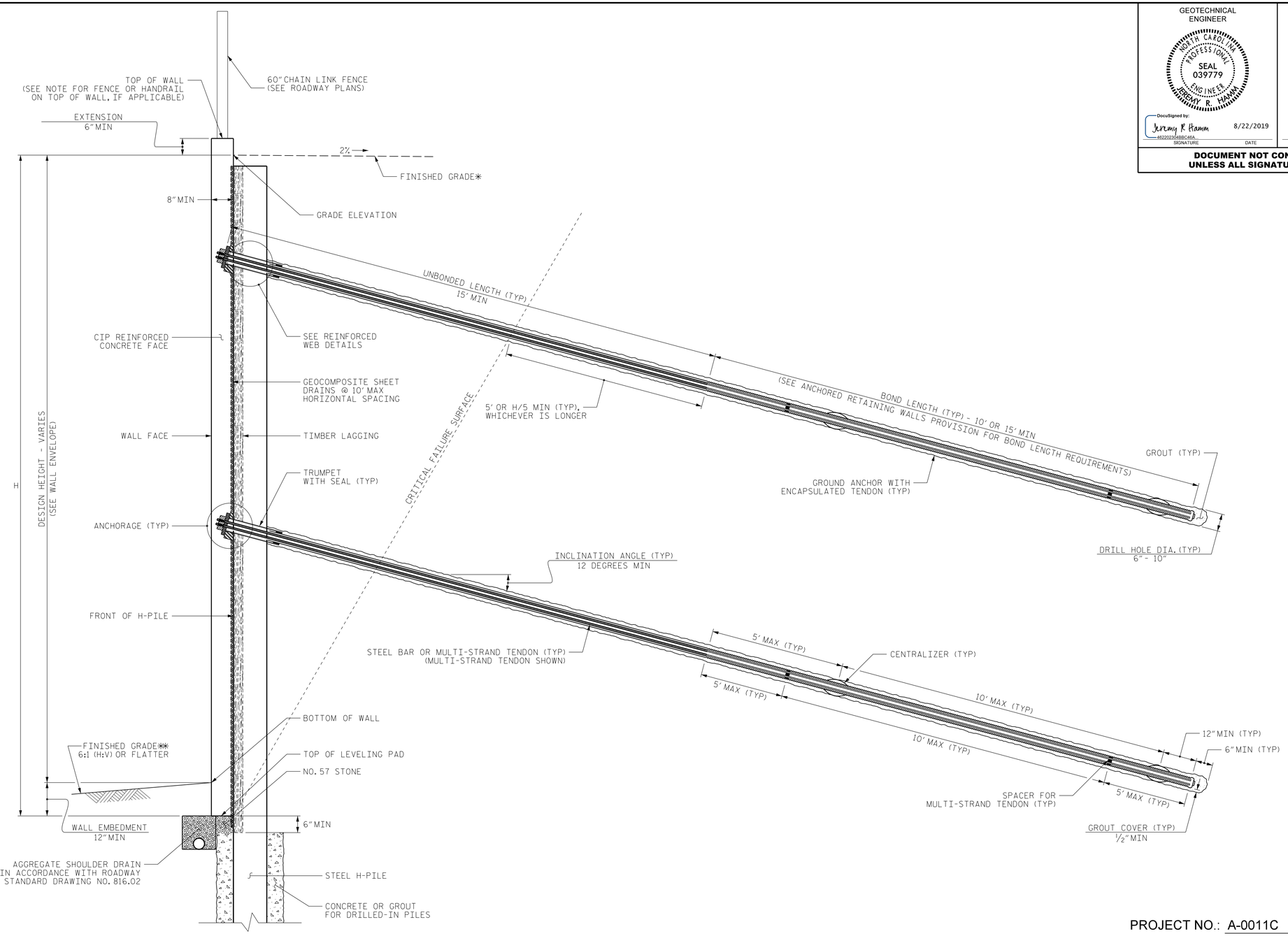

ANCHORED WALL - TYPICAL SECTION

(GROUND ANCHORS SHOWN, AS NEEDED BASED ON VARYING WALL HEIGHT AND PILE SPACING)
*SEE PLANS FOR FINISHED GRADE DETAILS.

PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 186+60, 70' LT TO 188+25, 53.75' LT

SHEET 7 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

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FALCON ENGINEERING, INC.
1210 TRINITY ROAD, SUITE 110
RALEIGH, NC 27607

PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 3 ANCHORED SOLDIER PILE WALL TYPICAL DETAIL

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. W-8

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039779 ENGINEER JEREMY R. HAMM

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46220234BBC46A...

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NOTES:

FOR ANCHORED RETAINING WALLS, SEE ANCHORED RETAINING WALLS PROVISION.

FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

AT THE CONTRACTOR'S OPTION, USE DRIVEN H-PILES FOR RETAINING WALL NO. 3.

BEFORE BEGINNING ANCHORED WALL DESIGN FOR RETAINING WALL NO. 3, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

DESIGN RETAINING WALL NO. 3 FOR THE FOLLOWING:
1) H = DESIGN HEIGHT + WALL EMBEDMENT
2) DESIGN LIFE = 100 YEARS
3) MINIMUM WALL EMBEDMENT ELEVATION = 1,818.3 FT
4) MINIMUM PILE PENETRATION INTO ROCK = N/A
5) IN-SITU ASSUMED MATERIAL PARAMETERS ABOVE ELEVATION 1,805 FT:
   UNIT WEIGHT, γ = 115 PCF
   FRICTION ANGLE, ϕ = 28 DEGREES
   COHESION, c = 0 PSF
6) IN-SITU ASSUMED MATERIAL PARAMETERS BELOW ELEVATION 1,805 FT:
   UNIT WEIGHT, γ = 125 PCF
   FRICTION ANGLE, f = 32 DEGREES
   COHESION, c = 0 PSF

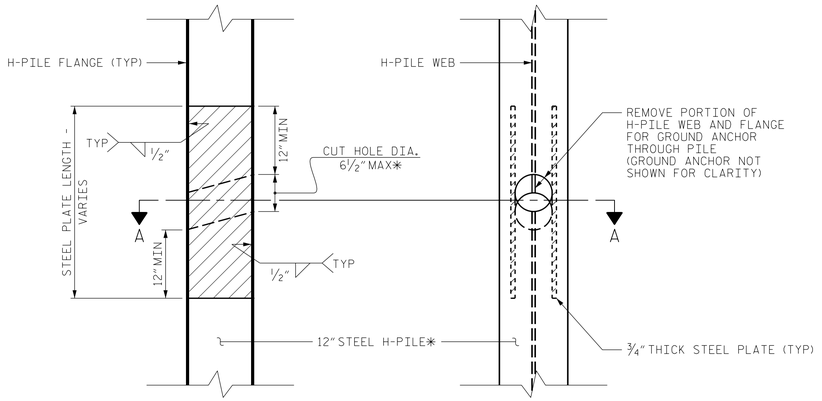
THE MINIMUM WALL EMBEDMENT ELEVATION FOR RETAINING WALL NO. 3 INCLUDES EMBEDMENT FOR SCOUR.

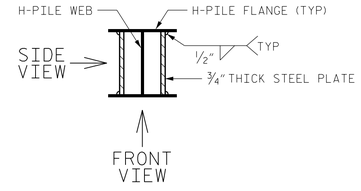
DESIGN WALL FOR FULL EMBEDMENT EXPOSURE (BOTTOM OF WALL EQUAL TO EMBEDMENT ELEVATION) DUE TO SCOUR POTENTIAL.

DESIGN RETAINING WALL NO. 3 FOR A LIVE LOAD (TRAFFIC) SURCHARGE.

DESIGN RETAINING WALL NO. 3 FOR A PIPE AND CULVERT EXTENDING UNDER OR THROUGH THE WALL AS SHOWN. VERIFY PIPE AND CULVERT LOCATION AND ELEVATION BEFORE BEGINNING ANCHORED WALL DESIGN OR CONSTRUCTION.

EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, GUARDRAIL, FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES MAY INTERFERE WITH GROUND ANCHORS FOR RETAINING WALL NO. 3.





SECTION A-A

REINFORCED WEB DETAILS

*DETAILS SHOWN ARE FOR 12"H-PILES WITH 6"DIA. GROUND ANCHORS. FOR DIFFERENT DIAMETER ANCHORS, SUBMIT ALTERNATE REINFORCED WEB DETAILS FOR ACCEPTANCE.

PROJECT NO.: A-0011C

CLAY COUNTY

STATION: 186+60, 70' LT TO 188+25, 53.75' LT

SHEET 8 OF 8

PREPARED BY: J. R. HAMM	DATE: 5/15/19
REVIEWED BY: S. C. CROCKETT	DATE: 5/17/19

FALCON ENGINEERING

FALCON ENGINEERING, INC.
1210 TRINITY ROAD, SUITE 110
RALEIGH, NC 27607

PHONE: 919.871.0800
FAX: 919.871.0803

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL NO. 3 ANCHORED SOLDIER PILE WALL NOTES AND DETAILS

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-9
2			4			