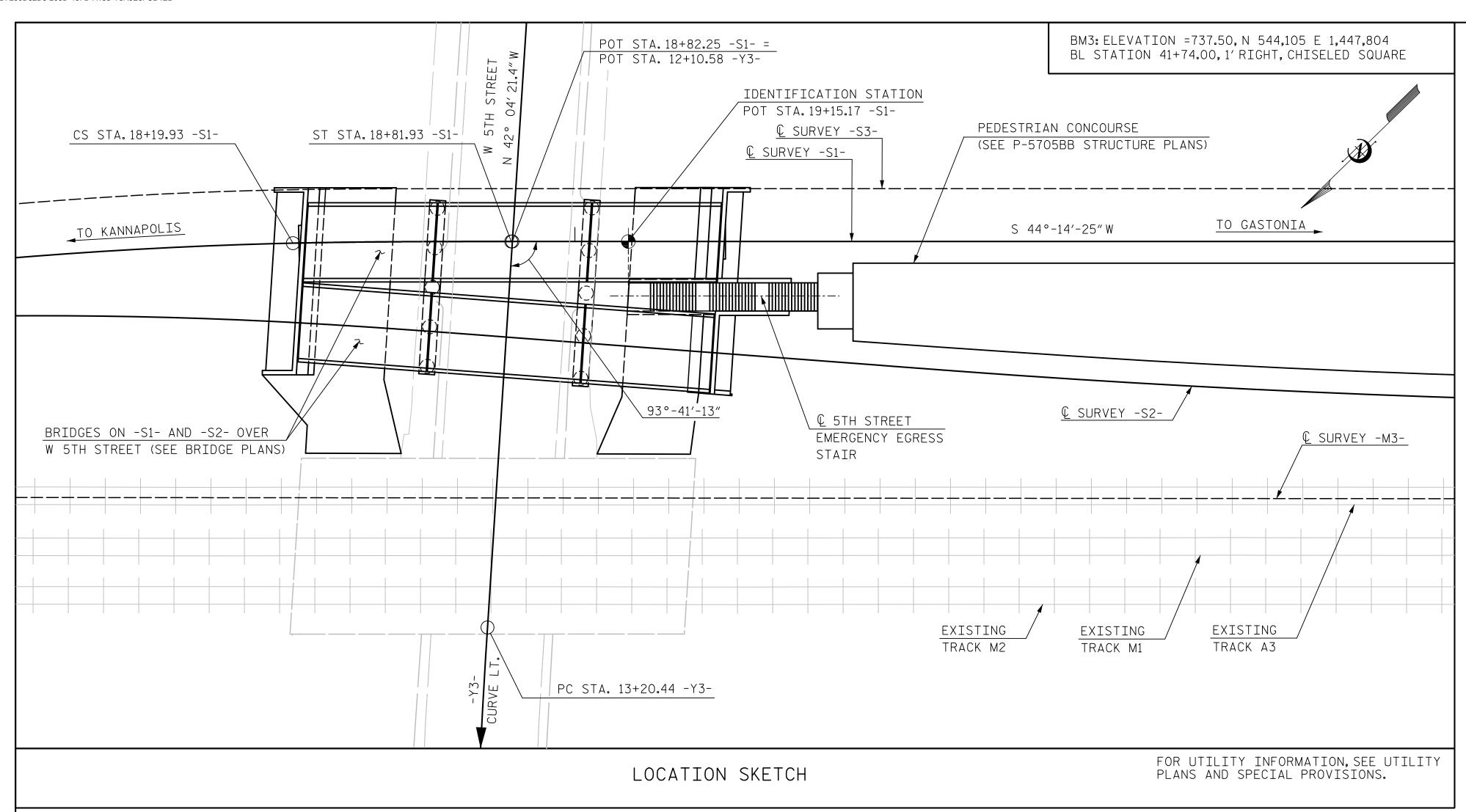
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NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARYILY BRACING WALLS
DURING CURING AND CONSTRUCTION OF WALLS AND STAIR. ANY REQUIRED BACKFILLING
SHALL OCCUR AFTER CURING OF WALLS AND STAIR IS COMPLETE.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

REINFORCING STEEL SHALL BE ASTM DESIGNATION A615, GRADE 60. ALL DIMENSIONS RELATING TO BAR SPACING ARE TO BAR CENTERS UNLESS NOTED. FABRICATION TO BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE" A.C.I. 315-80.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES", JANUARY 2018, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (HEREIN CALLED STANDARD SPECIFICATIONS), EXCEPT AS NOTED HEREIN, ELSEWHERE ON PLANS, OR IN THE SPECIAL PROVISIONS (STRUCTURAL STEEL IN ACCORDANCE WITH CURRENT AREMA SPECIFICATIONS).

ALL CONCRETE SHALL BE 4,500 PSI CLASS AA CONCRETE PER SECTION 1000 OF THE NCDOT SPECIFICATIONS WITH NO.57 OR 67 COARSE AGGREGATE AND SHALL BE AIR-ENTRAINED. MINIMUM CEMENT CONTENT PER CUBIC YARD OF CONCRETE SHALL BE 6.5 BAGS. NO SUBSTITUTION OF FLYASH, BLAST FURNACE SLAG OR OTHER MATERIAL WILL BE PERMITTED IN MEETING THIS MINIMUM CEMENT REQUIREMENT. CHAMFER ALL EXPOSED EDGES AND CORNERS 3/4" EXCEPT AS NOTED. THE USE OF GROUND GRANULATED BLAST FURNACE SLAG IS NOT PERMITTED IN THIS STRUCTURE.

CONTROL OF WORK: ALL WORK INVOLVED IN THE CONSTRUCTION OF THE RAILWAY STRUCTURE SHALL BE PERFORMED SATISFACTORY TO THE ENGINEER AND COMPLIANT WITH THE DESIGN STANDARDS OF NORFOLK SOUTHERN RAILWAY COMPANY. ALL METHODS OF HANDLING THE WORK AFFECTING THE SAFETY OF RAIL OPERATIONS MUST BE APPROVED BY THE RAILWAY COMPANY, AS A SUBMITTAL THROUGH THE ENGINEER, AT LEAST TWO WEEKS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. PROCEEDING WITH THAT PORTION OF THE WORK. RAIL TRAFFIC SHALL, AT ALL TIMES, BE MAINTAINED AND PROTECTED. THE CONTRACTOR SHALL NOT AT ANY TIME DELAY OR INTERFERE WITH RAIL OPERATIONS.

FOR PORTLAND CEMENT, SEE SPECIAL PROVISIONS.

FOR FINE AND COARSE AGGREGATE, SEE SPECIAL PROVISIONS.

FOR BACKFILL AROUND STRUCTURE, SEE SPECIAL PROVISION "BACKFILLING AROUND STRUCTURES".

STAIR CONSTRUCTION IS IMMEDIATELY ADJACENT TO BRIDGE ABUTMENTS. CONTRACTOR SHALL PROTECT ALL COMPONENTS OF IN PLACE ABUTMENTS INCLUDING SUPPORTING SOILS AND SLOPE PAVING DURING CONSTRUCTION AND SHALL NOT EXPOSE IN PLACE PILING. CONTRACTOR SHALL PROVIDE APPROPRIATE TEMPORARY SHORING FOR IN PLACE ABUTMENTS DURING ALL CONSTRUCTION.

TOTAL BILL OF MATERIAL										
	APPROX. CLASS AA CONCRETE	REINFORCING STEEL								
	CU. YDS.	LBS.								
EGRESS STAIR	32.2	3,180								

INDEX OF DRAWINGS

- 1 GENERAL DRAWING: 5TH STREET EMERGENCY EGRESS STAIR (SHEET 1 OF 1)
- 2 STAIR DETAILS (SHEET 1 OF 3)
- 3 STAIR DETAILS (SHEET 2 OF 3) 4 STAIR DETAILS (SHEET 3 OF 3)

PROJECT NO. P-5705BB

MECKLENBURG COUNTY

STATION: POT STA. 19+15.17 -S1-

SHEET 1 OF 1

3/27/2018

3/27/2018

CAROL

CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

STATE OF NORTH CAROLINA

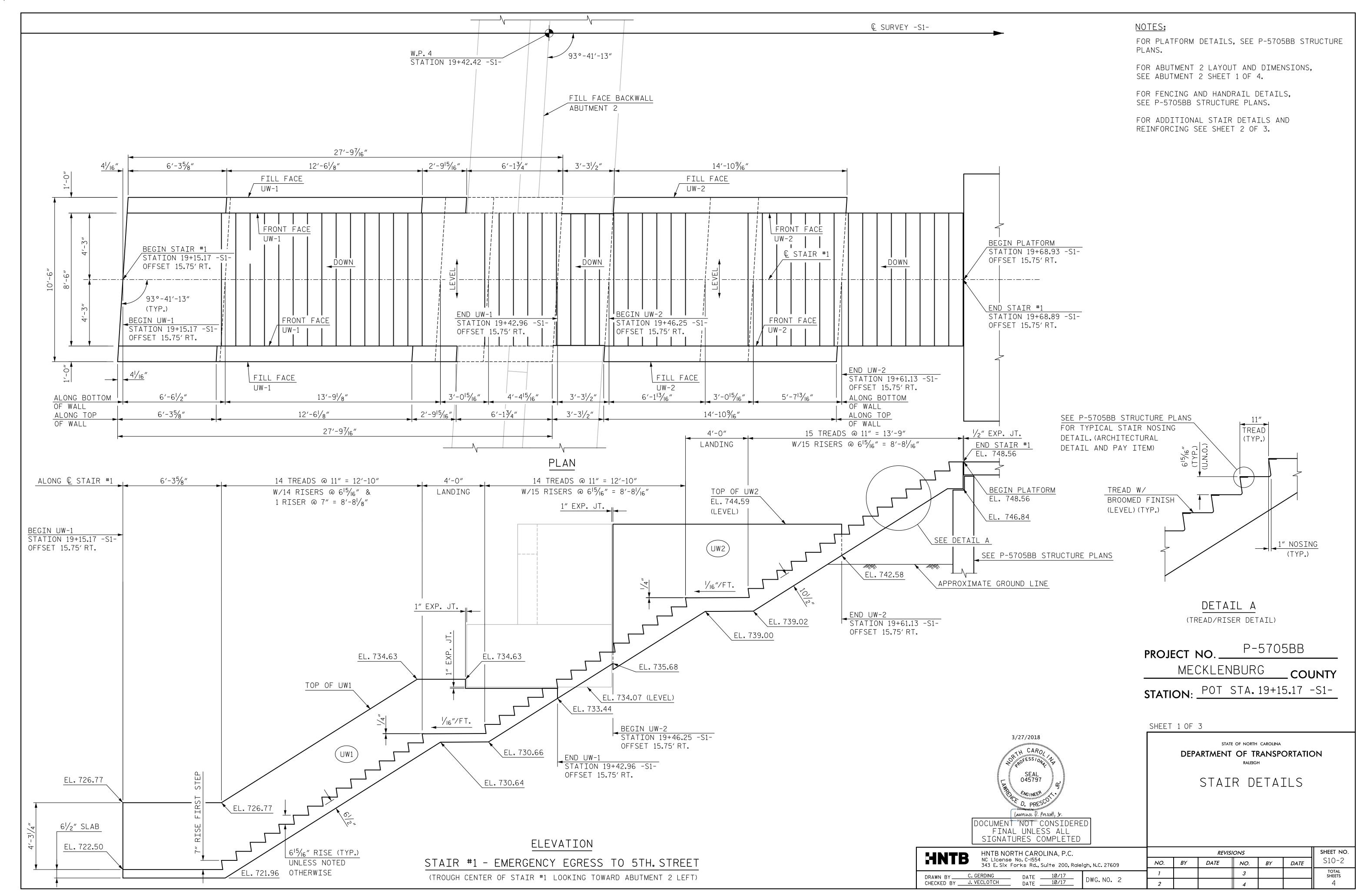
DEPARTMENT OF TRANSPORTATION

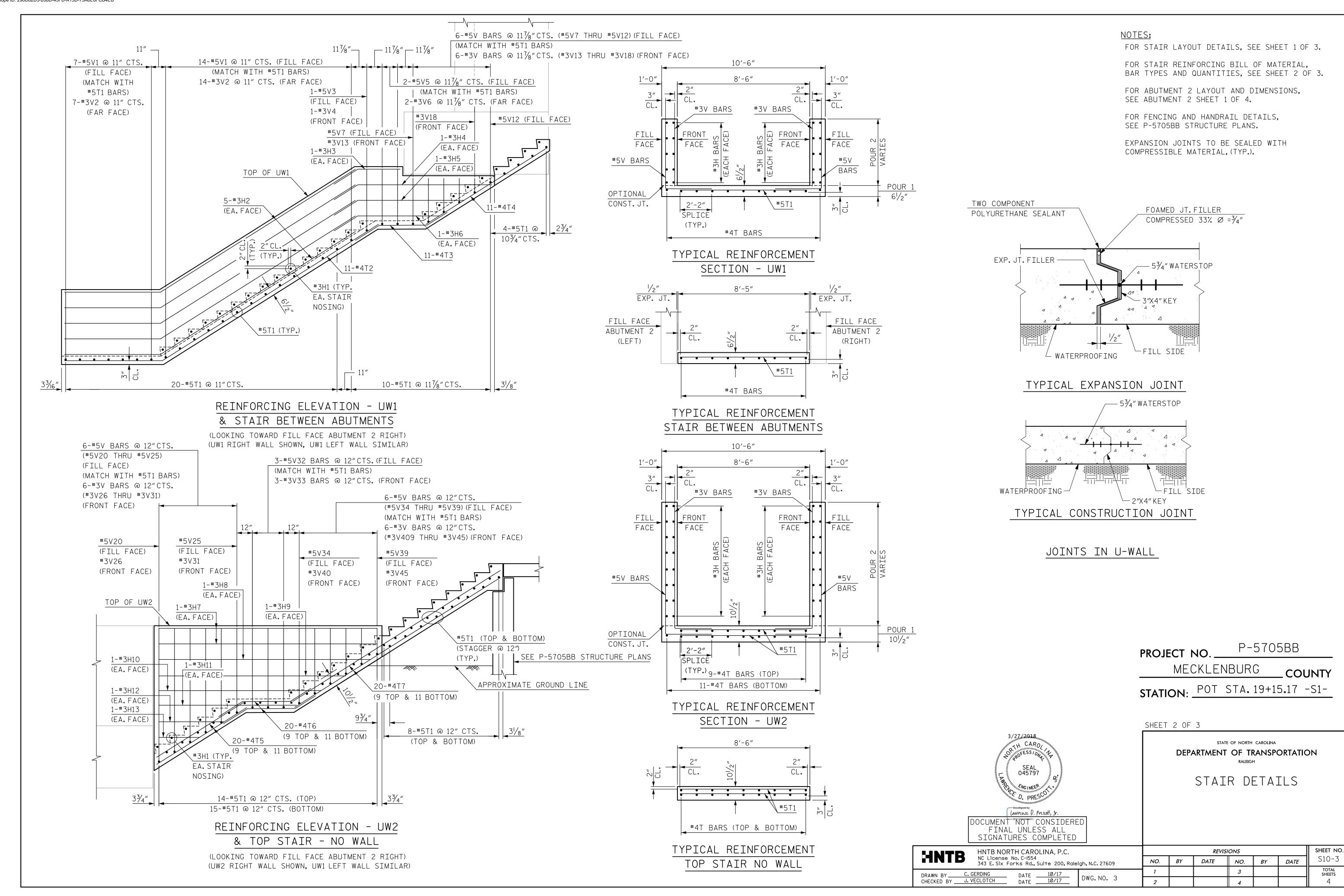
RALEIGH

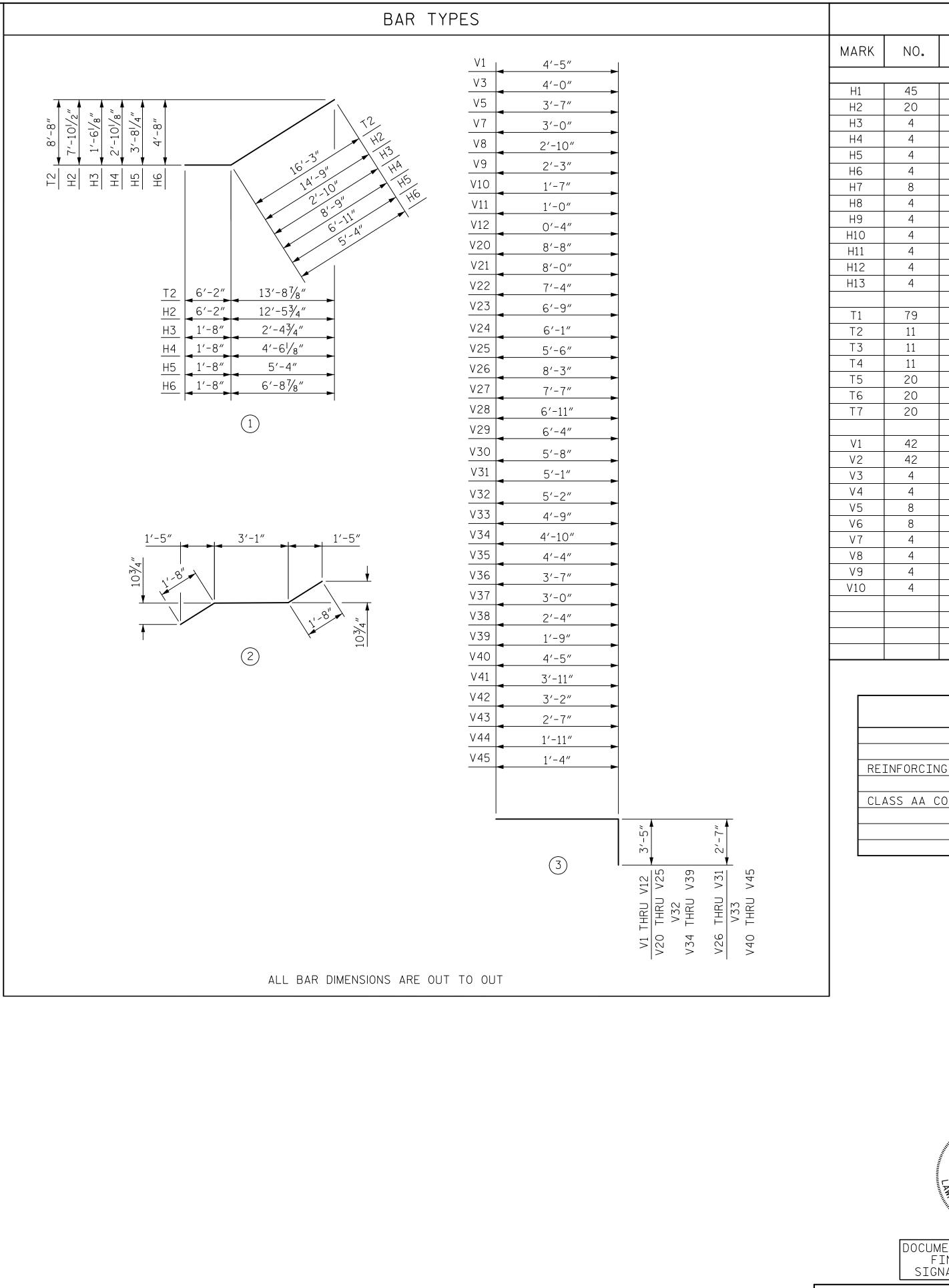
GENERAL DRAWING

5TH. STREET EMERGENCY EGRESS STAIR

LINTE		REVISIONS							
HNTB	eigh, N.C. 27609	NO.	BY	DATE	NO.	BY	DATE	S10-1	
DRAWN BY C. C	1			3			TOTAL SHEETS		
	ERDING DATE 1/18 DI ECLOTCH DATE 1/18	DWG. NO. I	2			1			4







MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT	MARK	NO.	SIZE	TYPE	LENGTH	WEIGHT
		STAI	R #1	•	•		STA	IR #1 (CONTIN	JED)	•
H1	45	3	STR	8'-1"	137	V11	4	5	3	4′-5″	18
H2	20	3	1	20'-11"	157	V12	4	5	3	3′-9″	16
Н3	4	3	1	4′-6″	7	V13	4	3	STR	2'-7"	4
H4	4	3	1	10′-5″	16	V14	4	3	STR	2′-5″	4
H5	4	3	1	8′-7″	13	V15	4	3	STR	1'-10"	3
Н6	4	3	1	7′-0″	11	V16	4	3	STR	1'-2"	2
H7	8	3	STR	14'-0"	42	V17	4	3	STR	0'-7"	1
Н8	4	3	STR	13′-7″	20	V18		NOT	USED		
Н9	4	3	STR	12'-0"	18	V19		NOT	USED		
H10	4	3	STR	10′-5″	16	V20	4	5	3	12'-1"	50
H11	4	3	STR	8'-10"	13	V21	4	5	3	11'-5"	48
H12	4	3	STR	4'-2"	6	V22	4	5	3	10'-9"	45
H13	4	3	STR	2′-7″	4	V23	4	5	3	10'-2"	42
						V24	4	5	3	9′-6″	40
T1	79	5	STR	8'-1"	666	V25	4	5	3	8'-11"	37
T2	11	4	1	22′-5″	165	V26	4	3	3	10'-10"	16
Т3	11	4	2	6′-5″	47	V27	4	3	3	10'-2"	15
T4	11	4	STR	9′-2″	67	V28	4	3	3	9′-6″	14
T5	20	4	STR	6′-7″	88	V29	4	3	3	8'-11"	13
T6	20	4	2	6′-5″	86	V30	4	3	3	8'-3"	12
Т7	20	4	STR	15′-9″	210	V31	4	3	3	7′-8″	12
						V32	12	5	3	8′-7″	107
V1	42	5	3	7′-10″	343	V33	12	3	3	7'-4"	33
V2	42	3	STR	4'-1"	64	V34	4	5	3	8′-3″	34
V3	4	5	3	7′-5″	31	V35	4	5	3	7′-9″	32
V4	4	3	STR	3′-8″	10	V36	4	5	3	7′-0″	29
V5	8	5	3	7′-0″	58	V37	4	5	3	6′-5″	27
٧6	8	3	STR	6′-9″	36	V38	4	5	3	5′-9″	24
٧7	4	5	3	6′-5″	27	V39	4	5	3	5′-2″	22
V8	4	5	3	6′-3″	26	V40	4	3	3	7′-0″	11
V9	4	5	3	5′-8″	24	V41	4	3	3	6′-6″	10
V10	4	5	3	5′-0″	21	V42	4	3	3	5′-9″	9
						V43	4	3	3	5′-2″	8
						V44	4	3	3	4'-6"	7
						V45	4	3	3	3′-11″	6
										TOTAL	3,180

BILL OF REINFORCING

QUANTITIE	ES	
ITEM		TOTAL
REINFORCING STEEL	LBS.	3,180
CLASS AA CONCRETE	CU. YDS	32.2

NOTES:

FOR STAIR LAYOUT DETAILS, SEE SHEET 1 OF 3.

FOR REINFORCING ELEVATIONS AND SECTIONS, SEE SHEET 2 OF 3.

PROJECT NO. P-5705BB

MECKLENBURG COUNTY

STATION: POT STA. 19+15.17 -S1-

SHEET 3 OF 3



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

STAIR DETAILS

LINTE	HNTB NOR	HNTB NORTH CAROLINA, P.C.				REVISIONS						
HNTE	NC License 343 E.Six F	se No.C-1554 Forks Rd.,Suite 200,Raleigh,N.C.27609		NO.	BY	DATE	NO.	BY	DATE	S10-4		
DRAWN BY	C. GERDING	DATE _	10/17	DWG. NO. 4	1			3			TOTAL SHEETS	
CHECKED BY	J. VECLOTCH	DATE .	10/17		2			4			4	