## ROADWAY STANDARD DRAWINGS

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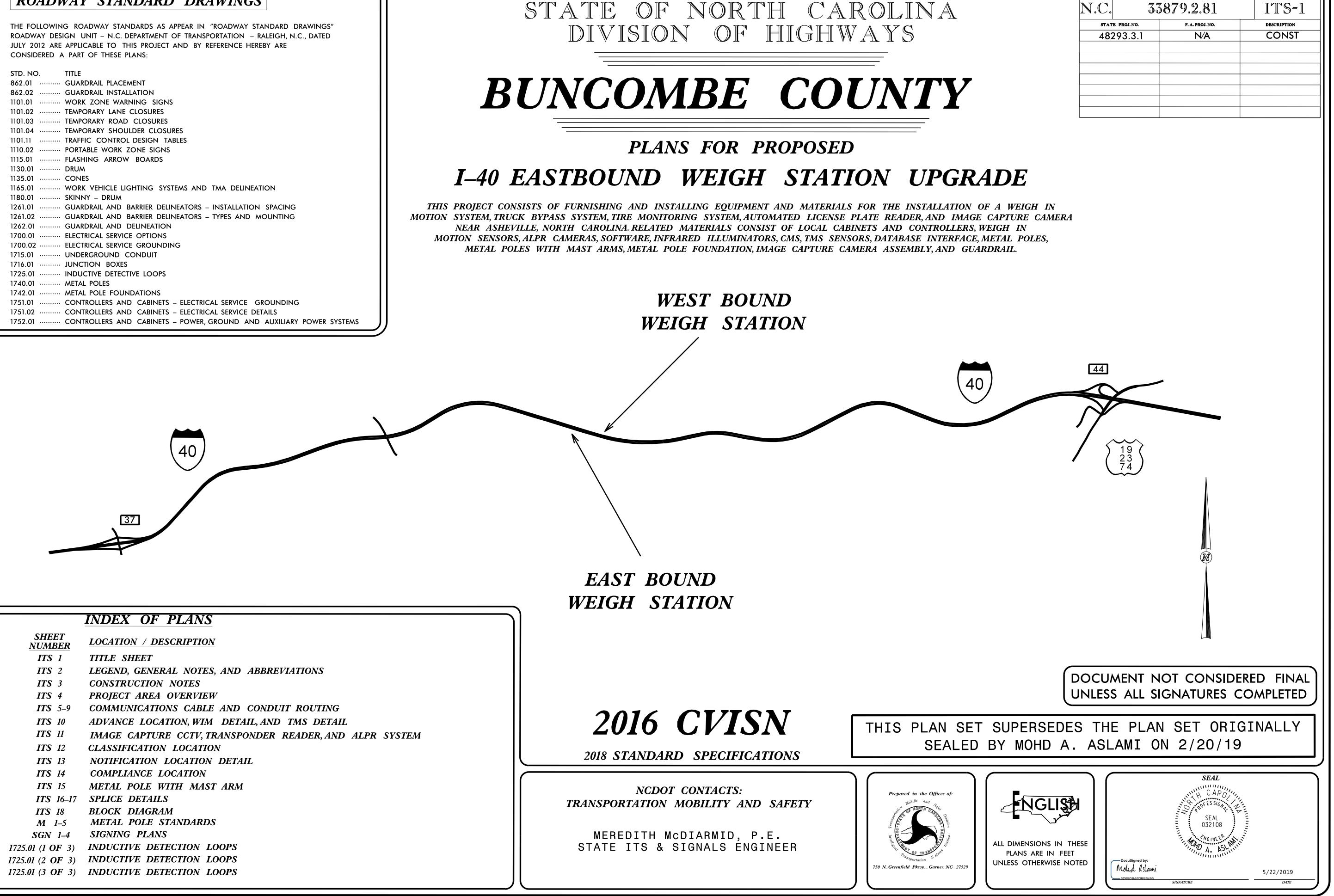
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	TITLE
STD. NO.	
	GUARDRAIL PLACEMENT
	GUARDRAIL INSTALLATION
	WORK ZONE WARNING SIGNS
	TEMPORARY LANE CLOSURES
	TEMPORARY ROAD CLOSURES
	TEMPORARY SHOULDER CLOSURES
	TRAFFIC CONTROL DESIGN TABLES
	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY – DRUM
1261.01	GUARDRAIL AND BARRIER DELINEATORS – INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS – TYPES AND MOUNTING
1262.01	GUARDRAIL AND DELINEATION
1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1715.01	UNDERGROUND CONDUIT
1716.01	JUNCTION BOXES
1725.01	INDUCTIVE DETECTIVE LOOPS
1740.01	METAL POLES
1742.01	METAL POLE FOUNDATIONS
1751.01	CONTROLLERS AND CABINETS – ELECTRICAL SERVICE GROUNDING
	CONTROLLERS AND CABINETS – ELECTRICAL SERVICE DETAILS
	CONTROLLERS AND CABINETS - POWER, GROUND AND AUXILIARY POWER SYSTEMS



	<u>SHEET</u> NUMBER	LOCATION / DESCRIPTION
	ITS 1	TITLE SHEET
	ITS 2	LEGEND, GENERAL NOTES, AND ABBREVIATIONS
	ITS 3	CONSTRUCTION NOTES
	ITS 4	PROJECT AREA OVERVIEW
	<i>ITS</i> 5–9	COMMUNICATIONS CABLE AND CONDUIT ROUTING
	ITS 10	ADVANCE LOCATION, WIM DETAIL, AND TMS DETAIL
	ITS 11	IMAGE CAPTURE CCTV, TRANSPONDER READER, AND ALPR SYSTEM
	ITS 12	CLASSIFICATION LOCATION
	ITS 13	NOTIFICATION LOCATION DETAIL
	ITS 14	COMPLIANCE LOCATION
	<b>ITS</b> 15	METAL POLE WITH MAST ARM
	ITS 16–17	SPLICE DETAILS
	ITS 18	BLOCK DIAGRAM
	M 1–5	METAL POLE STANDARDS
	SGN 1-4	SIGNING PLANS
	1725.01 (1 OF 3)	INDUCTIVE DETECTION LOOPS
	1725.01 (2 OF 3)	INDUCTIVE DETECTION LOOPS
	1725.01 (3 OF 3)	INDUCTIVE DETECTION LOOPS
J		

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	<u>LEGEND</u>	
PROPOSED		EXISTIN
	TRENCHED CONDUIT	
— DD — DD —	DIRECTIONAL DRILLED CONDUIT	
	ELECTRICAL SERVICE	
0	CAMERA POLE	N/A
	JUNCTION BOX	-
	STANDARD INDUCTIVE LOOP DETECTOR	N/A
	CAMERA ASSEMBLY	N/A
	EQUIPMENT CABINET	N/A
	PIEZOELECTRIC QUARTZ SENSOR	N/A
×	DRILL THROUGH SHOULDER FOR CONDUIT	N/A
	TIRE MONITORING SENSOR	N/A
	GUARDRAIL	
	METAL POLE WITH MAST ARM	
	CHANGEABLE MESSAGE SIGN	
	TRANSPONDER/AVI READER	

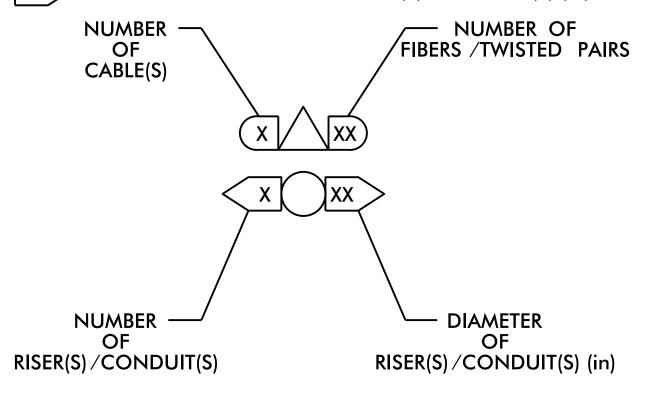
## **GENERAL NOTES**

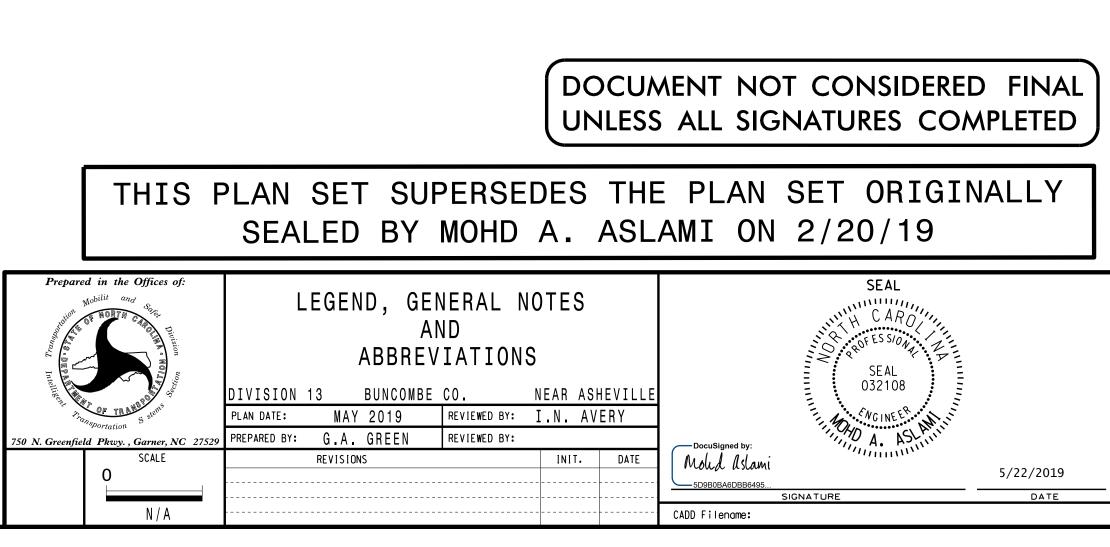
- 1. OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION FOR ITEMS TO BE INSTALLED AS PART OF THIS PROJECT.
- 2. BURIED UTILITIES AND STRUCTURES: PIPELINES, STORM SEWERS, POWER CABLES, UTILITY CABLES, AND OTHER PUBLICLY AND PRIVATELY OWNED UNDERGROUND OBSTRUCTIONS MAY EXIST ADJACENT TO AND WITHIN THE ROADWAY RIGHT-OF-WAY WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT. INVESTIGATE THE LOCATION OF SUCH BURIED UTILITIES AND STRUCTURES WITH PUBLIC AND PRIVATE UTILITIES.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER OF ALL AFFECTED UTILITIES FOR WORK THAT MAY IMPACT ANY UTILITY FACILITY.
- 4. ALL WORK SHOWN ON THESE PLANS IS TO BE PERFORMED BY THE CONTRACTOR UNLESS IT IS SPECIFICALLY NOTED THAT THE WORK WILL BE PERFORMED BY OTHERS.

## CONSTRUCTION NOTE SYMBOLOGY KEY

- (x| INDICATES NUMBER OF CABLES, LOOPS, ETC.
- INDICATES NUMBER OF FIBERS PER CABLE, XX TWISTED PAIRS PER CABLE, ETC.
- < x | INDICATES NUMBER OF RISER(S)/CONDUIT(S)

|xx>INDICATES DIAMETER OF RISER(S) / CONDUIT(S) (in)





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PROJECT REFERENCE NO.	SHEET NO.
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### **ABBREVIATIONS**

AVI	AUTOMATIC VEHICLE IDENTIFICATION
ALPR	AUTOMATED LICENSE PLATE READER
HDPE	HIGH DENSITY POLYETHYLENE
L	LOOP DETECTOR
N.T.S.	NOT TO SCALE
WIM	WEIGH IN MOTION
PQS	PIEZOELECTRIC QUARTZ SENSOR
S	SENSOR
NCSHP	NORTH CAROLINA STATE HIGHWAY PATROL
TMS	TIRE MONITORING SENSOR

	INSTALL REA, PE – 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
$\sqrt{2}$	INSTALL REA, PE – 38, (FIGURE – 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
$\overline{3}$	INSTALL REA, PE – 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
3A	INSTALL ALPR CABLE(S) *
3B	INSTALL AVI CABLE(S) *
3C	INSTALL WIM/SORT SIGNAL CABLE(S) *
3D	INSTALL PIEZOELECTRIC QUARTZ SENSOR CABLES *
3E	INSTALL LOOP WIRE
3F	INSTALL LEAD-IN CABLE
3G	INSTALL CCTV VIDEO AND POWER CABLES *
ЗН	INSTALL FOUR #8 COPPER FEEDER CONDUCTORS
<u>3I</u>	INSTALL DMS CONTROL AND POWER CABLES
<u>3J</u>	INSTALL TIRE MONITORING SENSOR CABLES
<u> </u>	INSTALL COAXIAL CABLE
<u>3L</u>	INSTALL CAT5 CABLE
4	INSTALL SMFO CABLE
5	INSTALL MMFO CABLE
6	INSTALL FIBER OPTIC DROP CABLE
7	INSTALL TRACER WIRE
8	TRENCH
(8A)	SAW CUT PAVEMENT
9	INSTALL PVC CONDUIT
10	INSTALL RIGID, GALVANIZED STEEL CONDUIT
11	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
(12)	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CAB
13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
14	INSTALL POLYETHYLENE CONDUIT
15	DIRECTIONAL DRILL CONDUIT
16	BORE AND JACK CONDUIT
17	INSTALL CABLE(S) IN EXISTING CONDUIT
18	INSTALL CABLE(S) IN NEW CONDUIT
(19)	INSTALL CABLE(S) IN EXISTING RISER
20	INSTALL CABLE(S) IN NEW RISER
21	INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS

	$\frown$		
(	21A)	INSTALL CABLE(S) IN NEW CONDUIT STUB-OUTS	56
(	22	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB–OUTS WHEN AVAILABLE)	56A
(	23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB–OUTS WHEN AVAILABLE)	57
(	24	INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	58
(	25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	58A
<	26	TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET	59
<	27>	INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET	60
<	28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	61
<	29>	INSTALL UNDERGROUND SPLICE ENCLOSURE	62
•	30	MODIFY EXISTING SPLICE CENTER	63
•	31	INSTALL POLE MOUNTED CABINET	64
•	32	INSTALL BASE MOUNTED CABINET WITH EXTENDER	65
•	33	REMOVE EXISTING SPLICE CABINET	66
	34	INSTALL CABINET FOUNDATION	67
	35	REMOVE EXISTING CABINET FOUNDATION	
	36	INSTALL CCTV CAMERA ASSEMBLY	68
	37	INSTALL CCTV CAMERA WOOD POLE	69
	38	INSTALL CAMERA METAL POLE AND FOUNDATION	70
	39	INSTALL JUNCTION BOX	71
	40	INSTALL OVERSIZED JUNCTION BOX	* CABL
	41	INSTALL SPECIAL OVERSIZED JUNCTION BOX	MAN
	42	INSTALL WOOD POLE	
	43	REMOVE EXISTING WOOD POLE	
	44	INSTALL AERIAL GUY ASSEMBLY	
	45	INSTALL STANDARD GUY ASSEMBLY	
	46	INSTALL SIDEWALK GUY ASSEMBLY	
	47	INSTALL MESSENGER CABLE	
	48	REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE	
	49	REMOVE EXISTING COMMUNICATIONS CABLE	
	50	INSTALL TELEPHONE SERVICE THIS	PLAN S
	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	SEAL
	52	INSTALL DELINEATOR MARKER	
	53	STORE 50 FEET OF COMMUNICATIONS CABLE	C
	54	INSTALL ISOLATION TRANSFORMER	DIVISION 13 PLAN DATE:
	55	INSTALL INDUSTRIAL ETHERNET SWITCH	9 PREPARED BY:
		N / A	

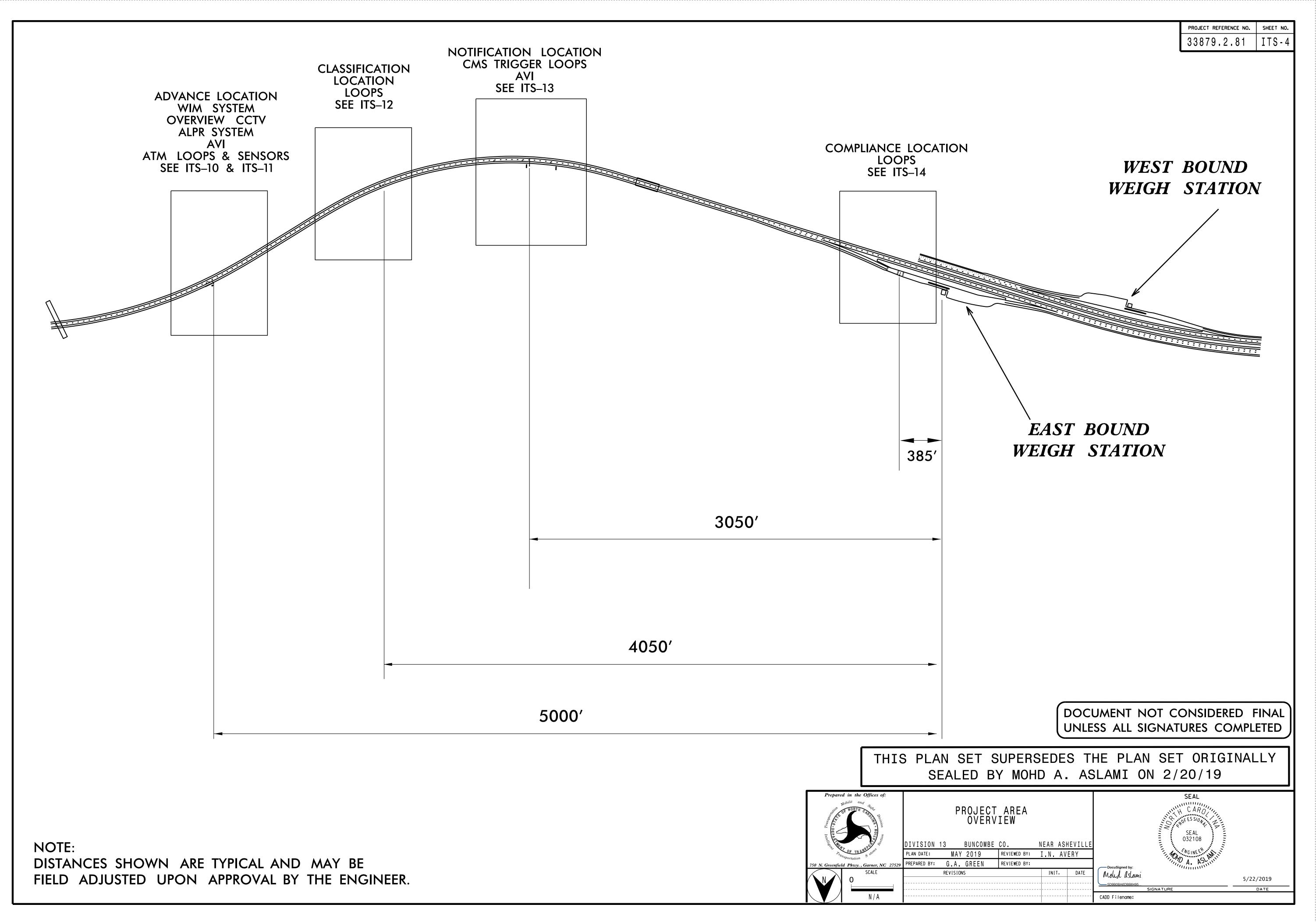
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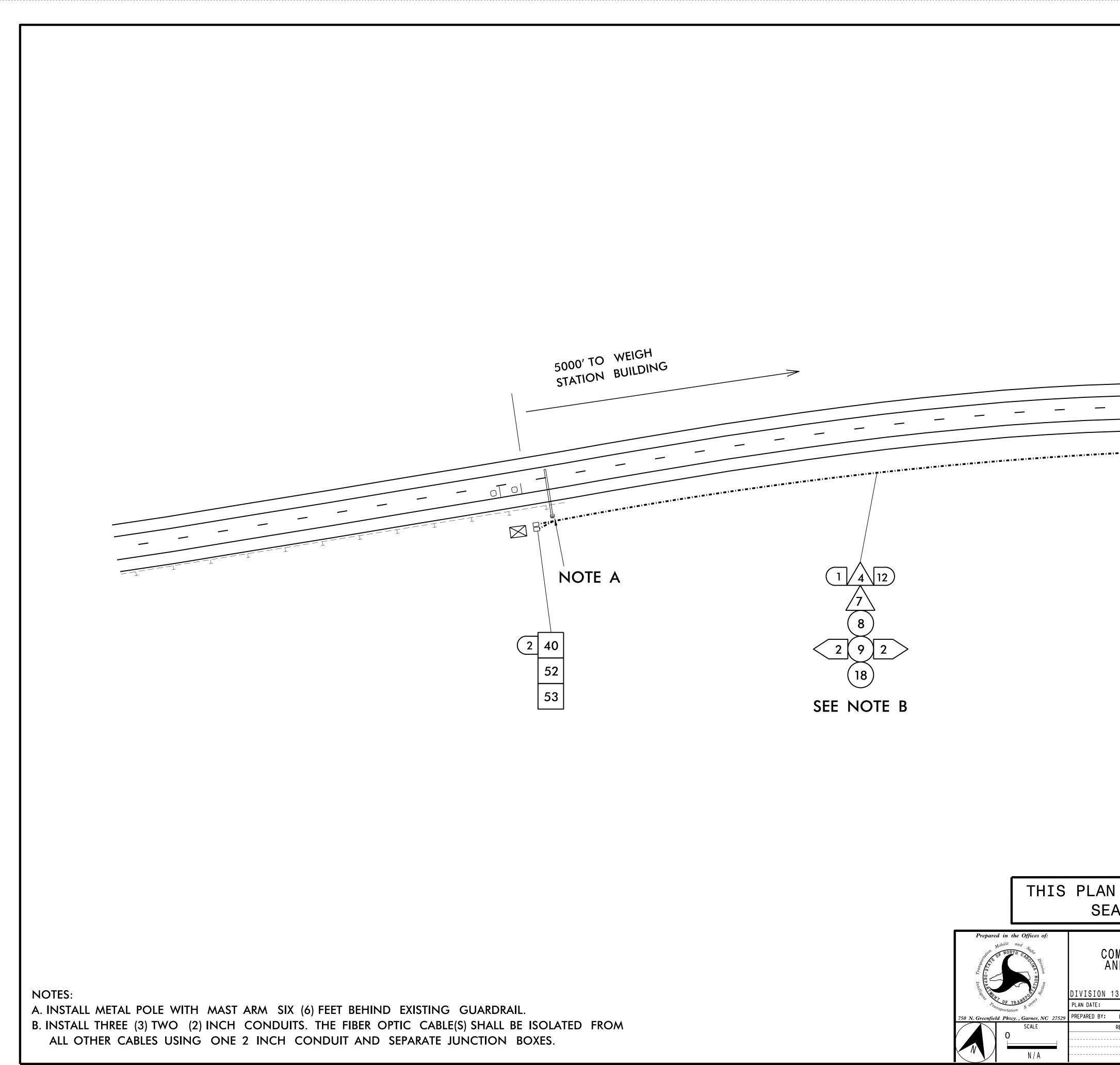
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INSTALL VIDEO ENCODER		
INSTALL VIDEO DECODER		
MODIFY EXISTING ELECTRICAL SERVICE		
INSTALL NEW ELECTRICAL SERVICE		
INSTALL EQUIPMENT CABINET DISCONNECT		
INSTALL PIEZOELECTRIC QUARTZ SENSORS		
INSTALL AUTOMATED LICENSE PLATE RECOGN	ITION SYSTEM	
INSTALL AUTOMATED USDOT RECOGNITION	SYSTEM	
INSTALL IMAGE CAPTURE CCTV CAMERA ASSE	MBLY	
INSTALL STANDARD INDUCTIVE LOOP		
INSTALL OVERHEIGHT DETECTOR ASSEMBLY WI METAL POLE AND FOUNDATION	TH	
INSTALL STEEL POLE, MASTARM AND FOUNDA	TION	
INSTALL LED LANE CONTROL SIGN		
INSTALL TRANSPONDER/AVI READER		
INSTALL CHANGABLE MESSAGE SIGN, STRUCTU AND FOUNDATION	IRE,	
INSTALL STEEL POLE FOUNDATION		
INSTALL TIRE MONITORING SENSORS		
INSTALL TIRE MONITORING ELECTRONICS		
BLES SHALL BE PER EQUIPMENT NUFACTURER'S SPECIFICATIONS D RATED FOR WET LOCATIONS.		

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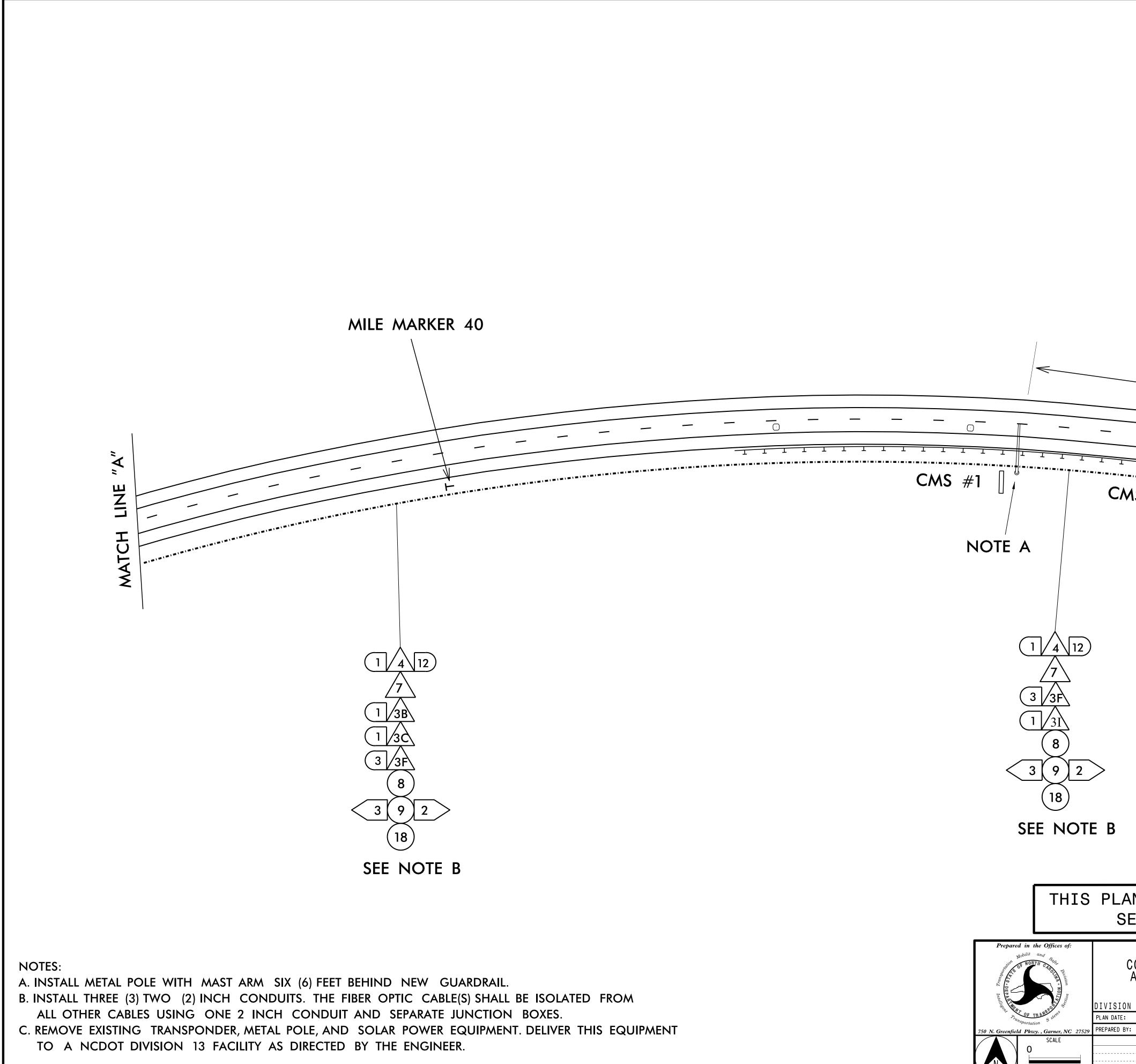
SET SUPERSEDES THE PLAN SET ORIGINALLY LED BY MOHD A. ASLAMI ON 2/20/19

CONSTRUCTION NOTES		SEAL SEAL 032108			
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G.A. GREEN	REVIEWED BY:			DocuSigned by:	•
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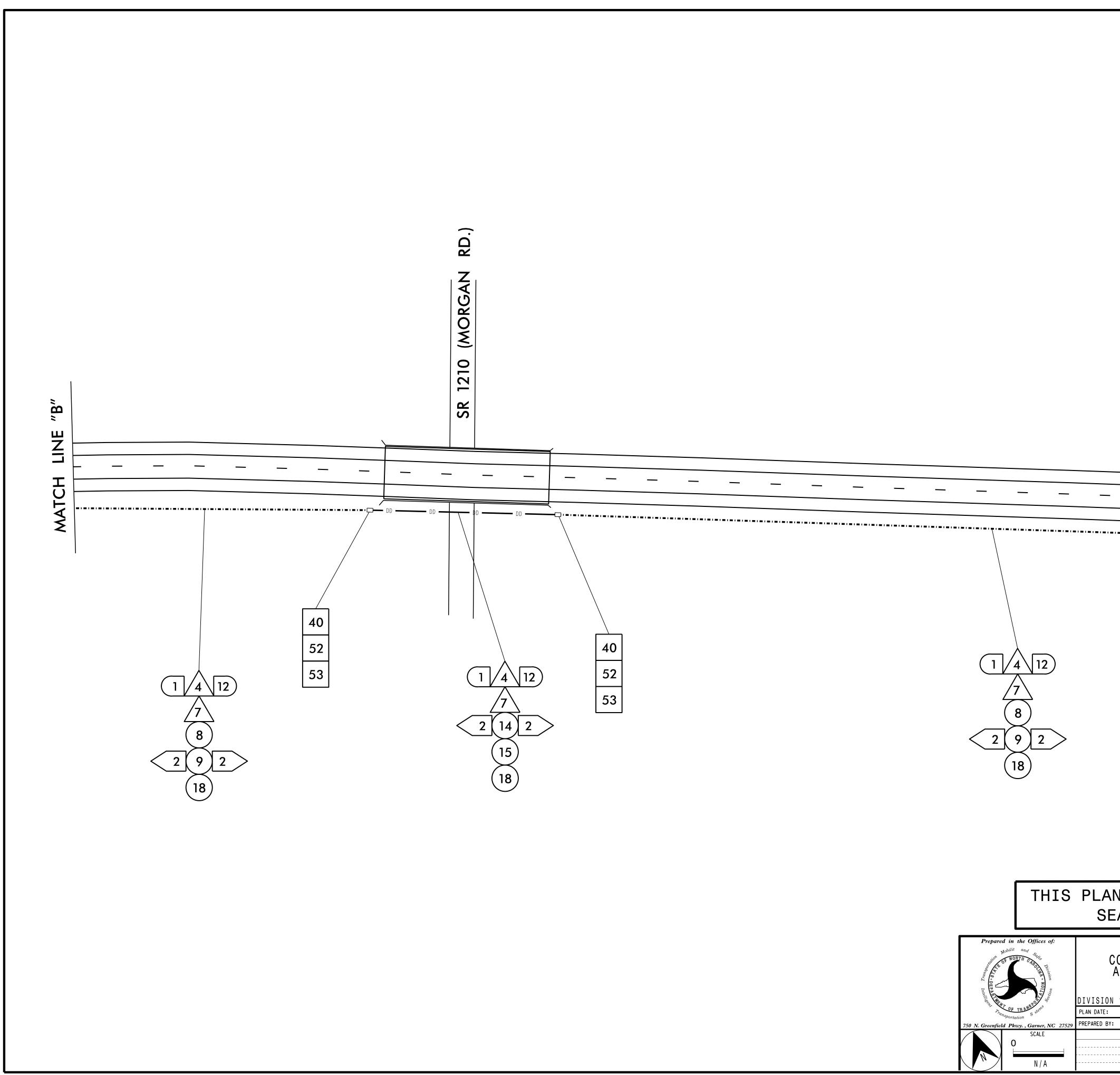


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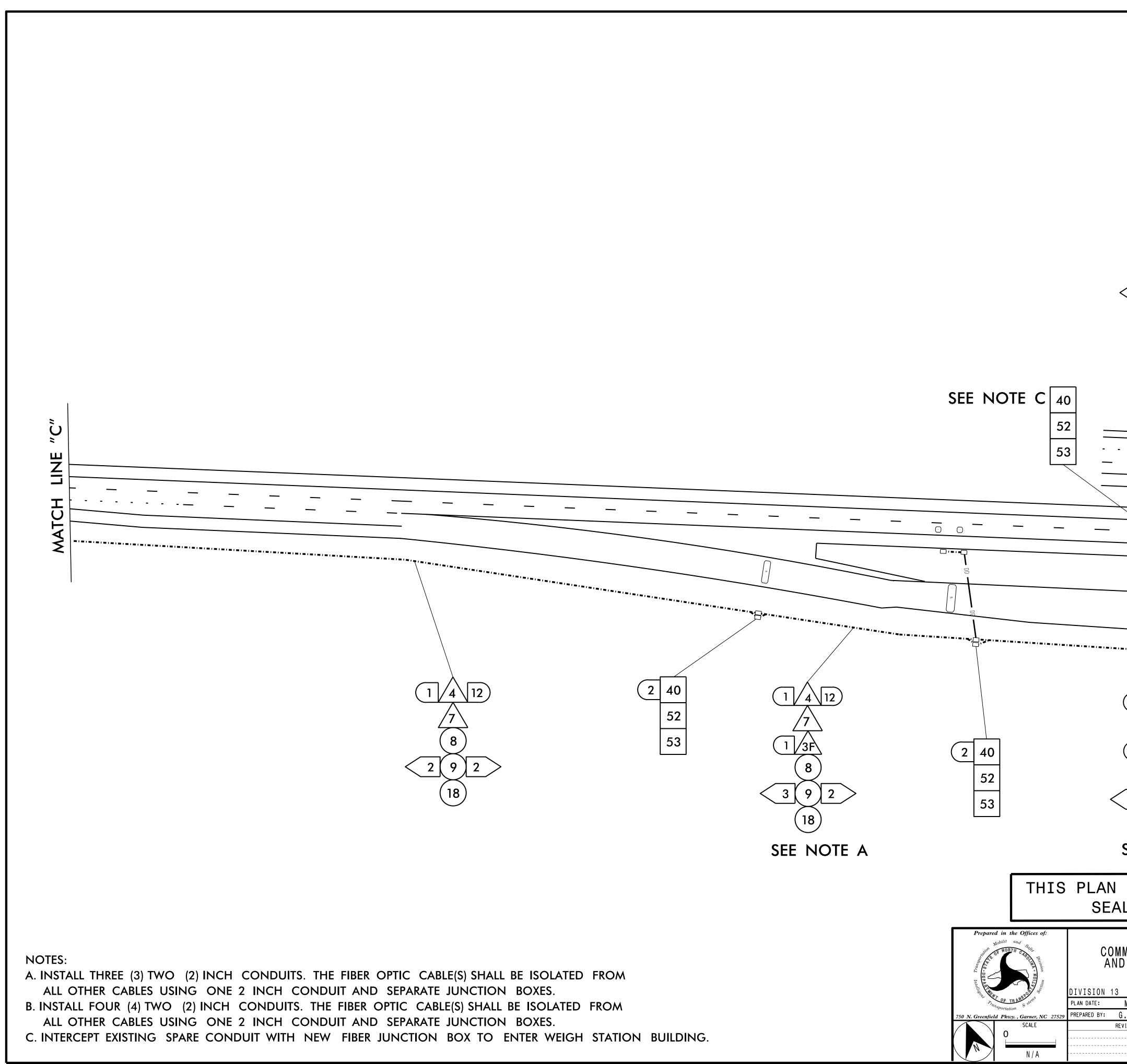
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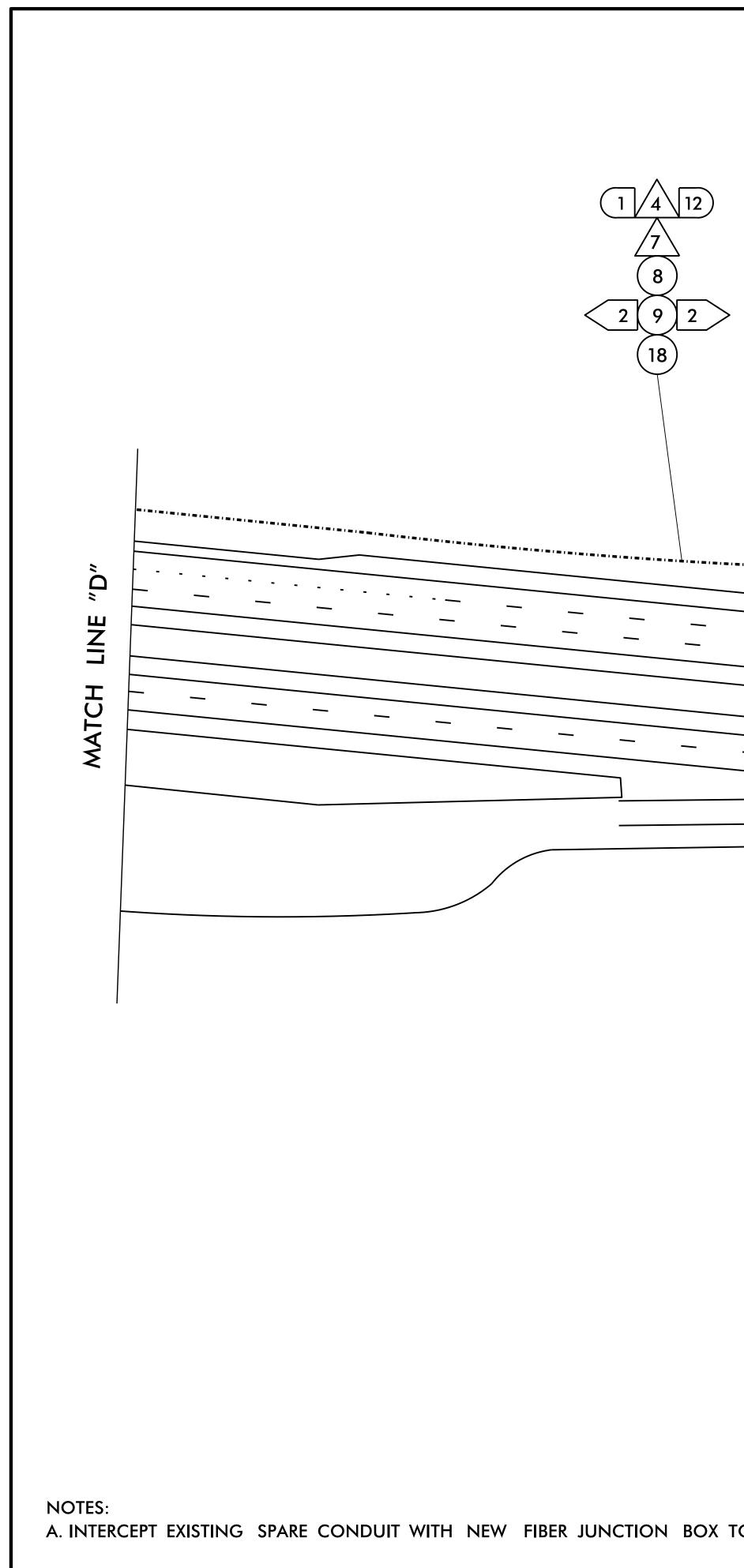


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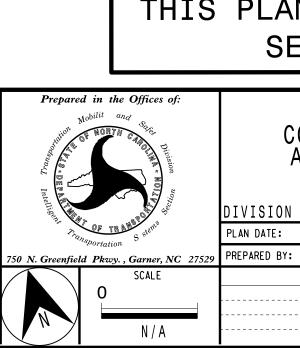
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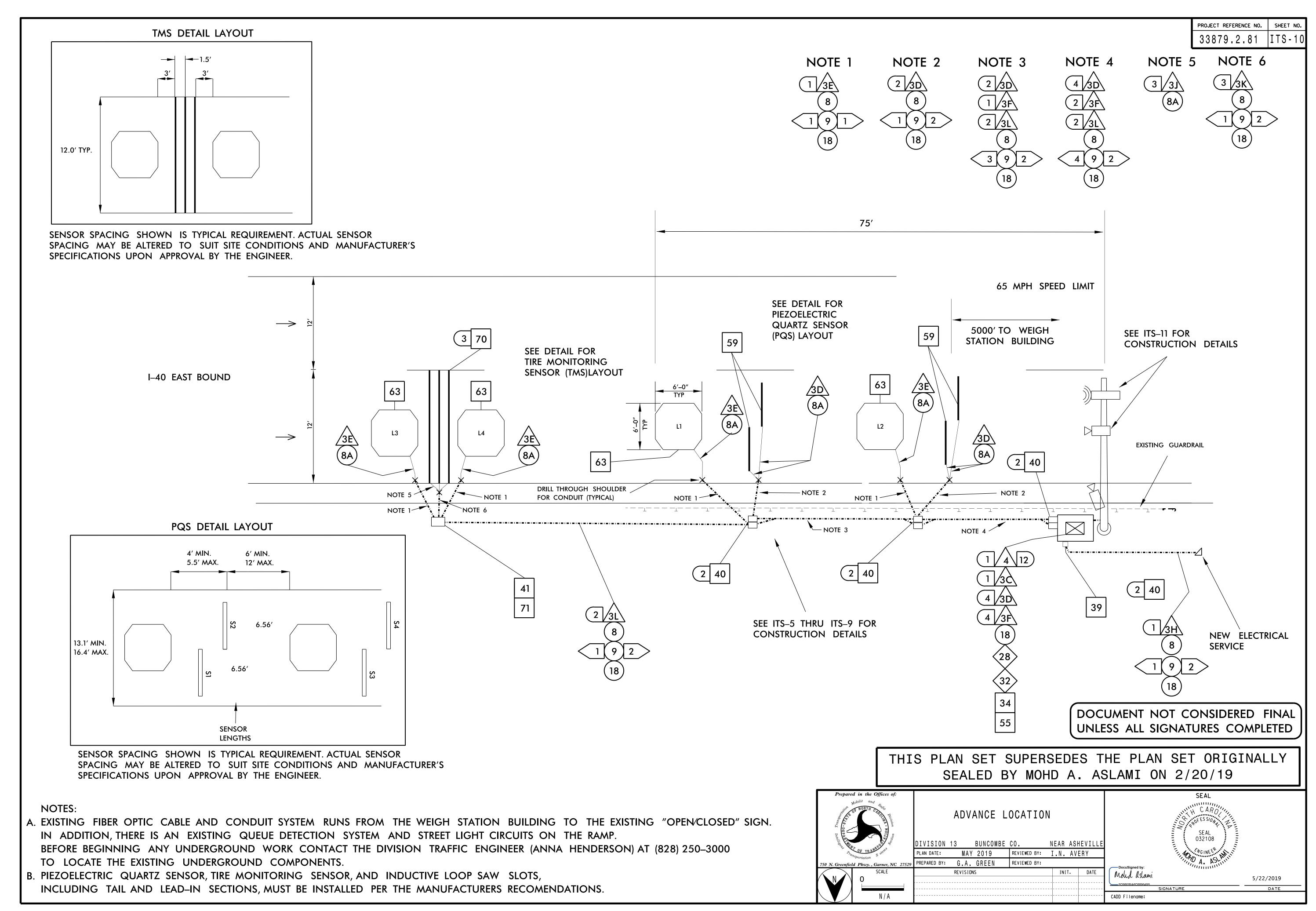


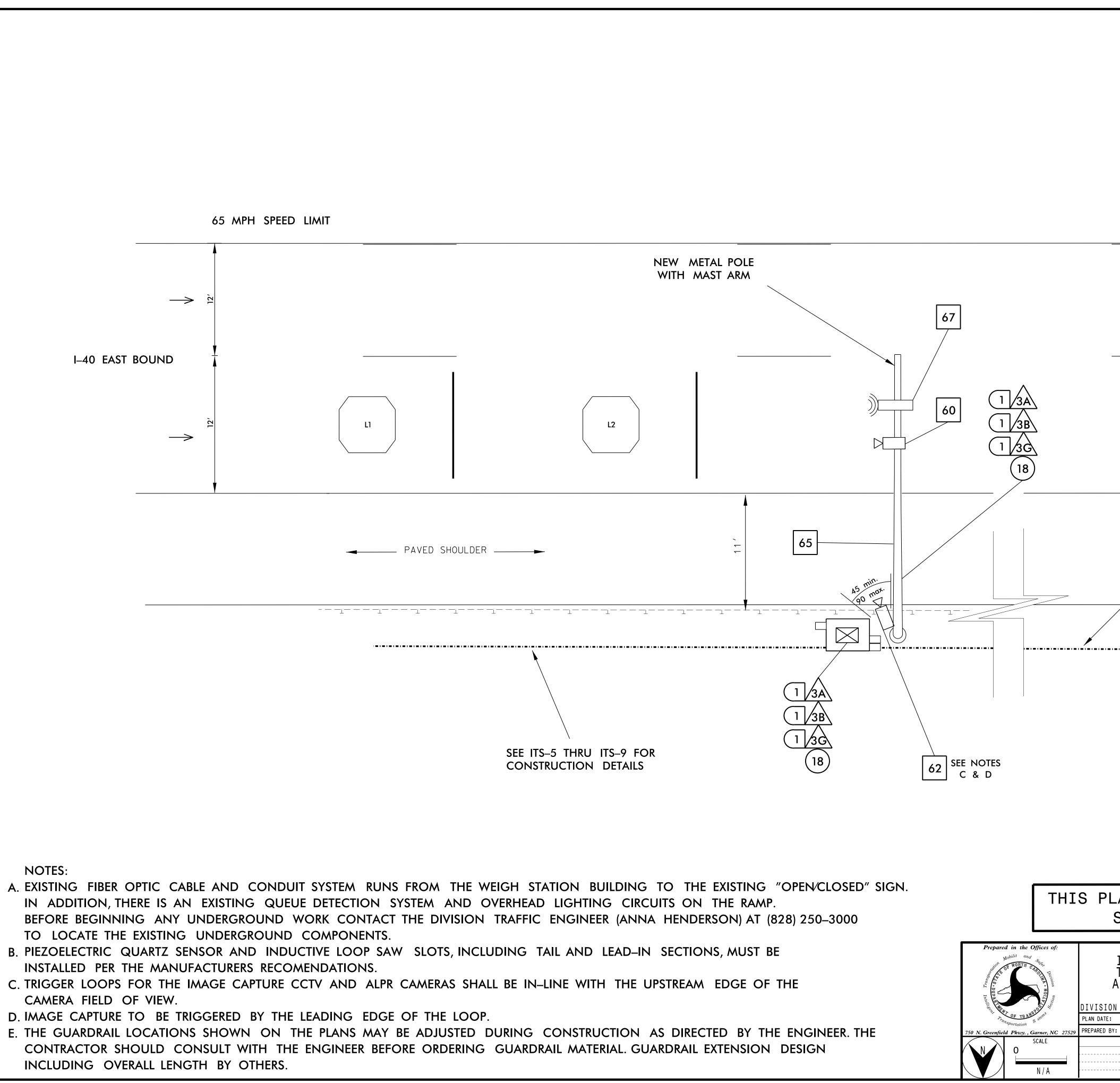
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13 BUNCOMBE CO. NEAR ASHEVILLE	SEAL 032108 A. ASLANIN 5/22/2019
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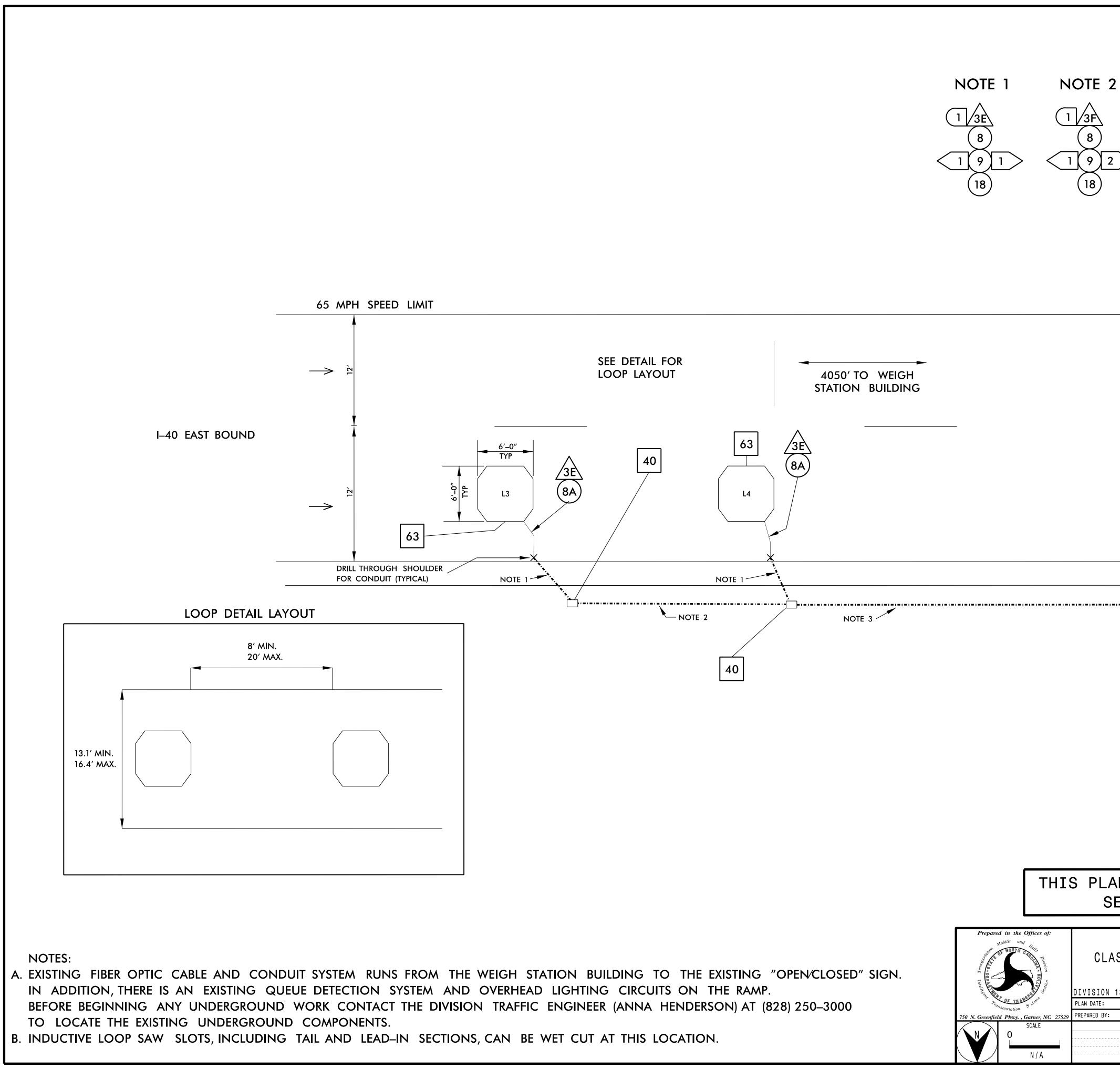
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	WEST BOUND
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	DIVISION 13 BUNCOMBE CO. NEAR ASHEVILLE
	PLAN DATE: MAY 2019 REVIEWED BY: I.N. AVERY
to enter weigh station building.	PLAN DATE:       MAY 2019       REVIEWED BY:       I.N. AVERY         750 N. Greenfield Pkwy., Garner, NC 27529       PREPARED BY:       G.A. GREEN       REVIEWED BY:         Scale       REVISIONS       INIT.       DATE         0       0       5/22/2019
to enter weigh station building.	PLAN DATE:       MAY 2019       REVIEWED BY:       I.N. AVERY         750 N. Greenfield Pkwy., Garner, NC 27529       PREPARED BY:       G.A. GREEN       REVIEWED BY:

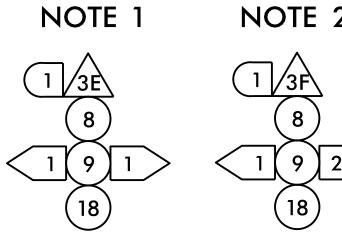




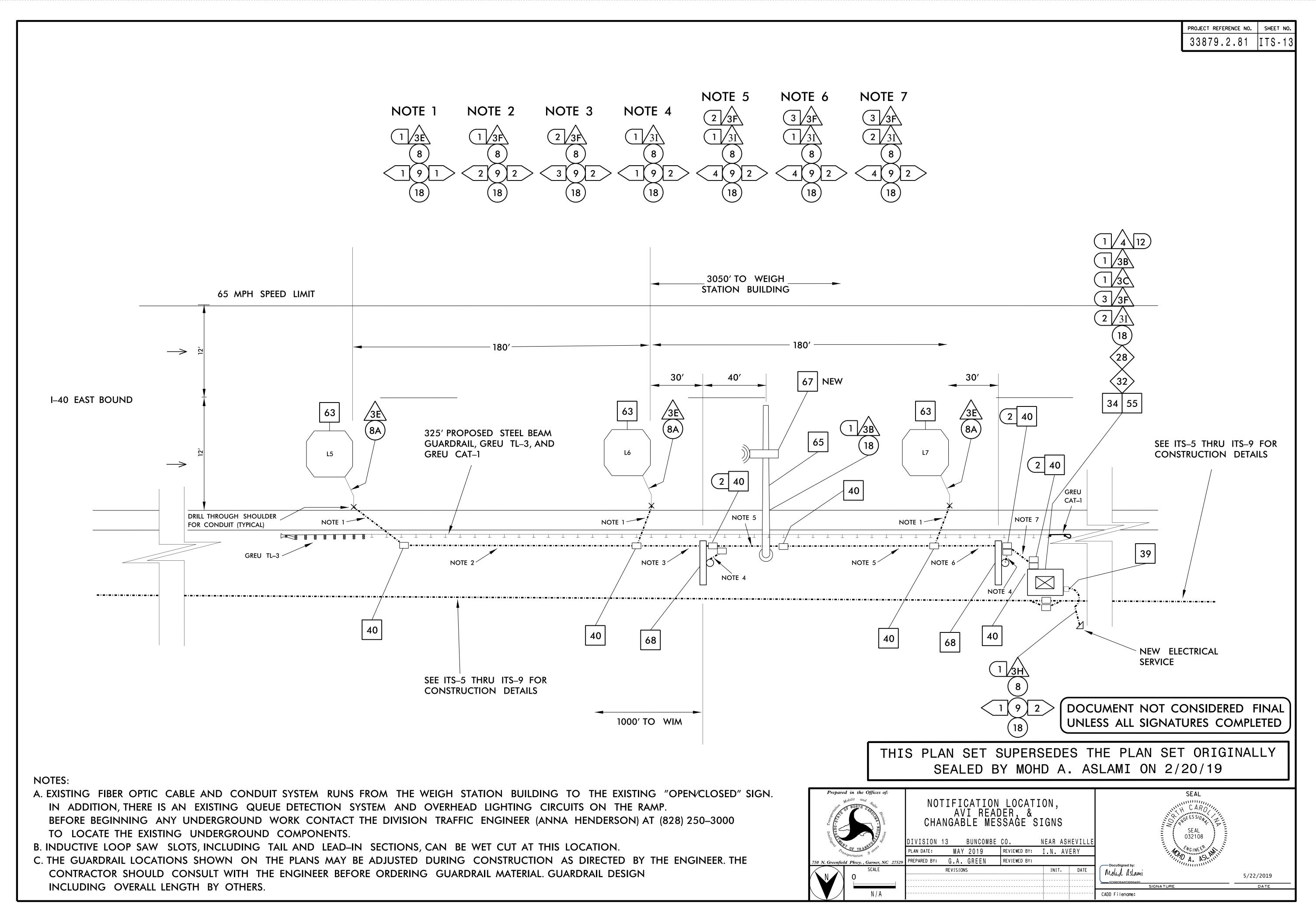


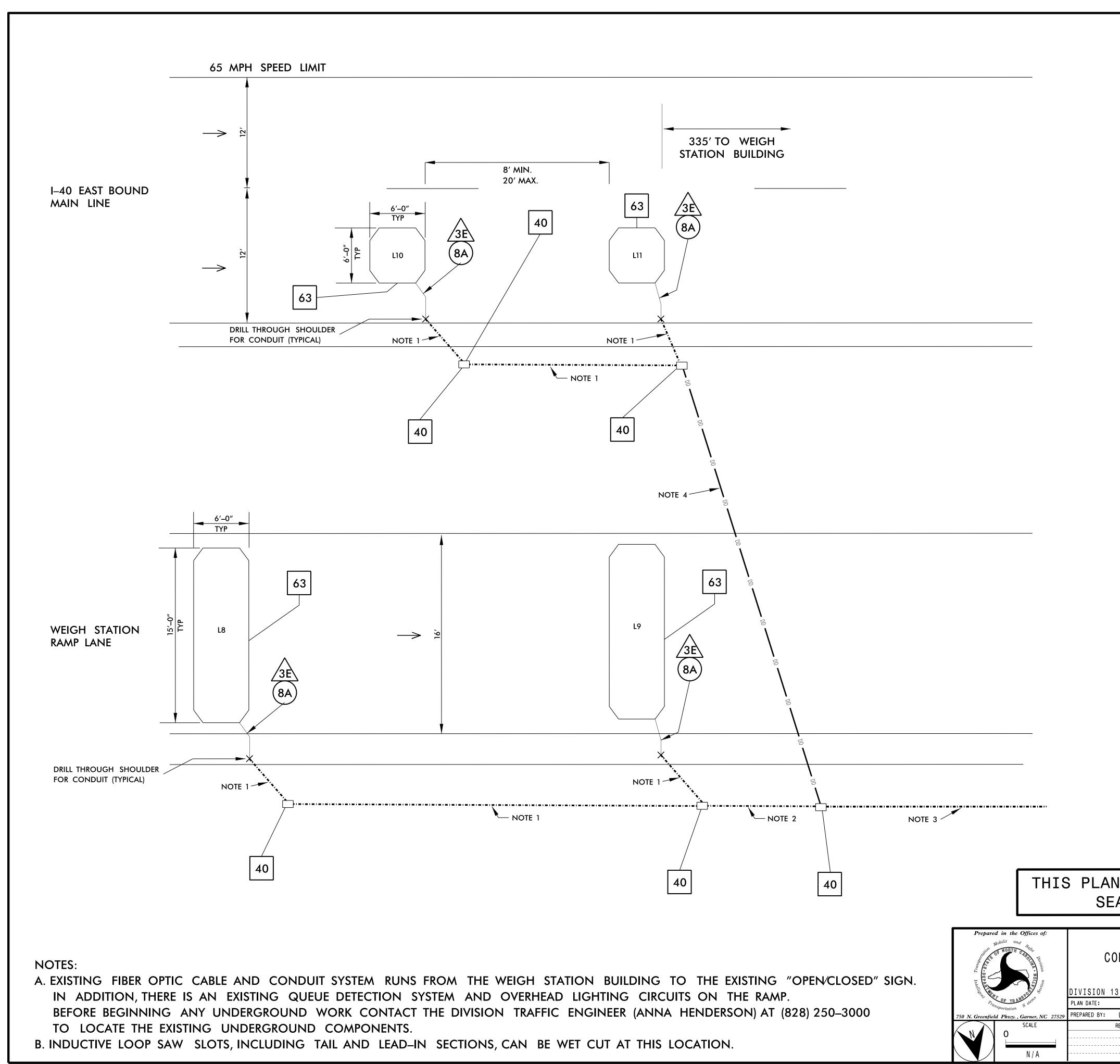
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13 BUNCOMBE CO. NEAR ASHEVILLE	SEAL 032108	
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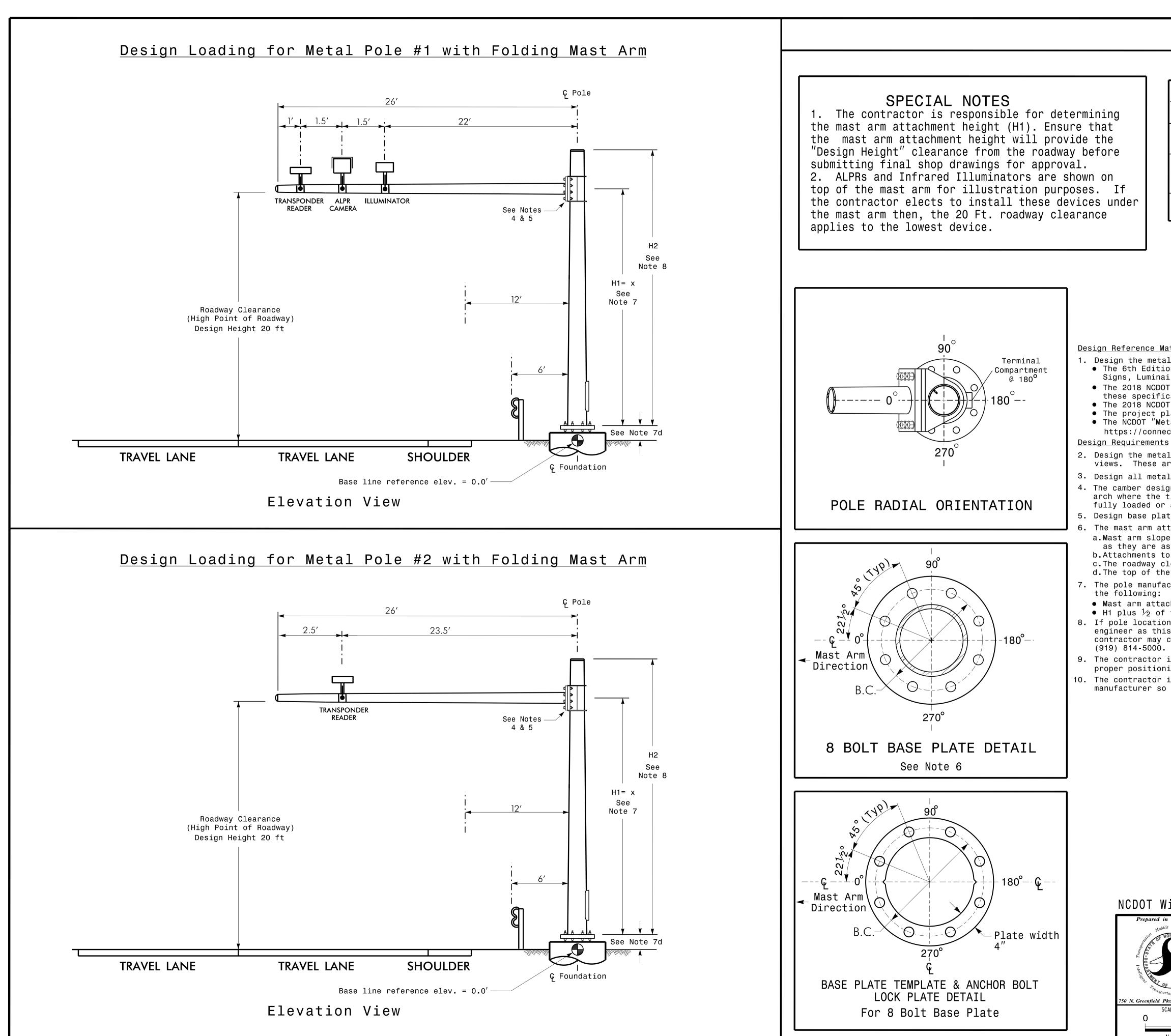


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NOTE 3		
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G.A. GREEN REVIEWED BY: REVISIONS INIT. DATE	DocuSigned by: Molid Aslami	5/22	2/2019
	SIGNATURE		DATE



# 1. The contractor is responsible for determining "Design Height" clearance from the roadway before top of the mast arm for illustration purposes. If the contractor elects to install these devices under

METAL POLE N	0 1 8 0	PROJECT REFERENCE NO.	SHEET NO.
WETAL FULE N	J. I & Z	33879.2.81	ITS-15

	MAST ARM LOADI	NG SCHEDULE	
loading symbol	DESCRIPTION	SIZE	WEIGHT
	transponder reader	6.5″W x 4.5″L x 4.0″D	7 LBS
	LICENSE PLATE READER CAMERA	13.0″W x 6.0″L x 5.5″D	6 LBS
	INFRARED ILLUMINATOR	3.0" W x 3.0" L x 3.0" D	5 LBS

NOTES

<u>Design Reference Material</u>

1. Design the metal pole structure and foundation in accordance with: • The 6th Edition, 2013 AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, including all of the latest interim revisions. • The 2018 NCDOT "Standard Specifications for Roads and Structures". The latest addenda to these specifications can be found in the ITS and Signals project special provisions. • The 2018 NCDOT Roadway Standard Drawings. • The project plans and special provisions.

• The NCDOT "Metal Pole Standards" located at the following NCDOT website: https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx

2. Design the metal pole structure using the loading conditions shown in the elevation views. These are anticipated worst case "Design loads".

3. Design all metal pole supports using stress ratios that do not exceed 0.9.

4. The camber design for mast arm deflection should provide an appearance of a low pitched arch where the tip or the free end of the mast arm does not deflect below horizontal when fully loaded or any other load condition.

5. Design base plate with 8 anchor bolt holes. Provide 2 inch x 60 inch anchor bolts. The mast arm attachment height (H1) shown is based on the following design assumptions: a.Mast arm slope and deflection are not considered in determining the arm attachment height

as they are assumed to offset each other. b.Attachments to the mast arm are rigid mounted and vertically centered on the arm. c.The roadway clearance height for design is as shown in the elevation views.

d. The top of the pole base plate is .75 feet above the ground elevation.

7. The pole manufacturer will determine the total height (H2) of each pole using the greater of

• Mast arm attachment height (H1) plus 2 feet, or

• H1 plus  $\frac{1}{2}$  of the total height of the mast arm attachment assembly plus 1 foot. 8. If pole location adjustments are required, the contractor must gain approval from the engineer as this may affect the mast arm lengths and arm attachment heights. The contractor may contact the ITS & Signals Structural Engineer for assistance at

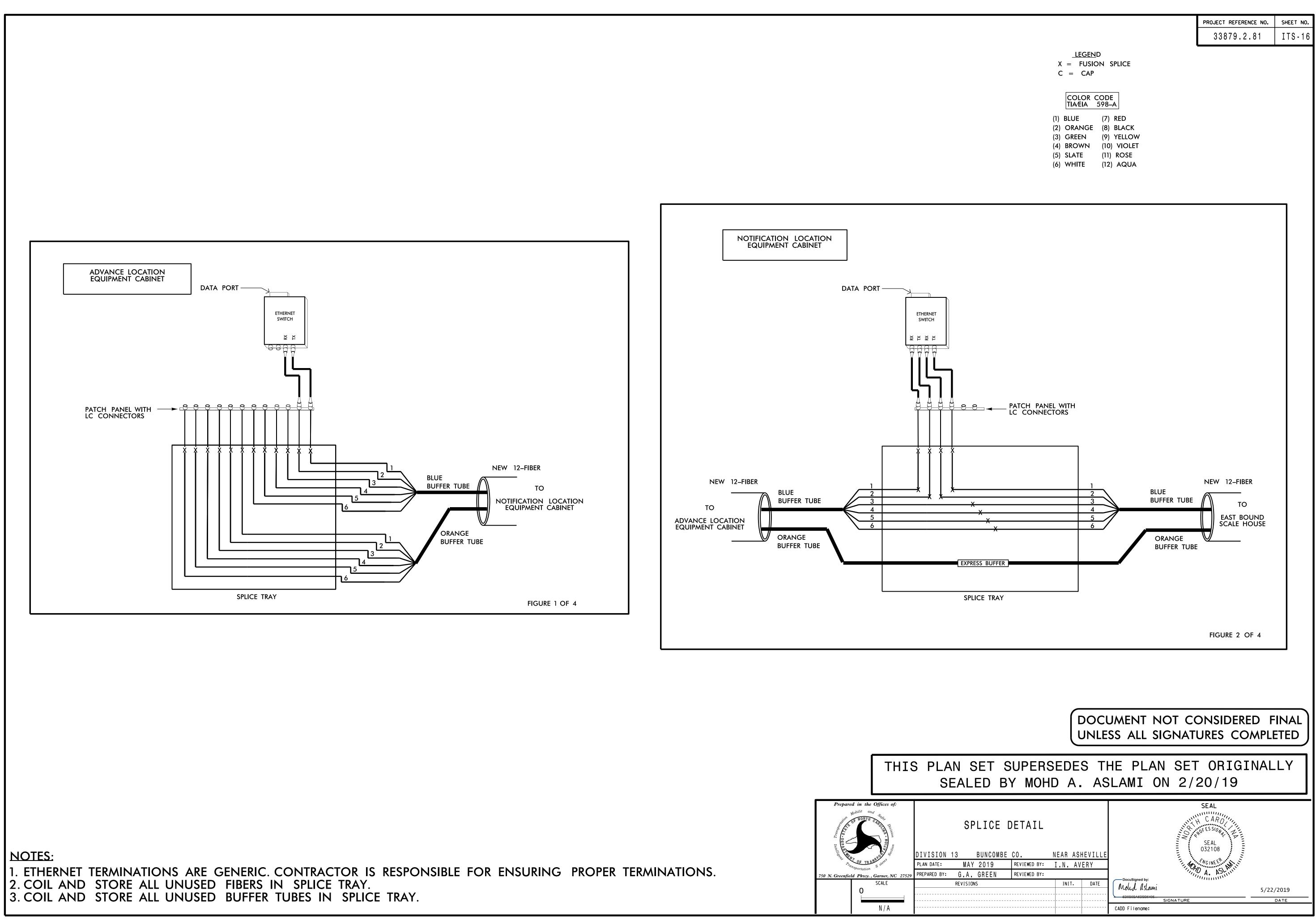
9. The contractor is responsible for verifying that the mast arm length shown will allow proper positioning of the attached equipment over the roadway.

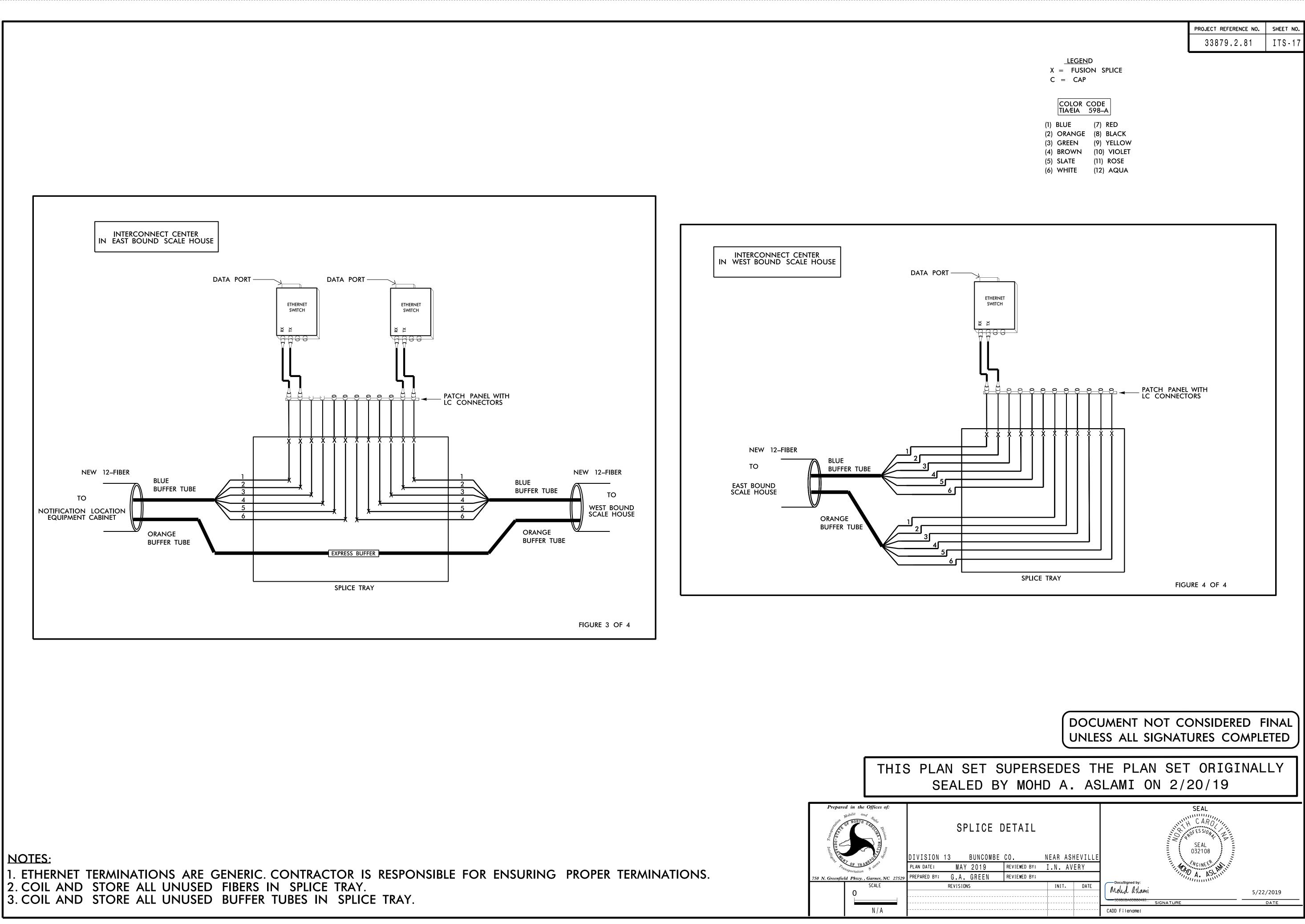
10. The contractor is responsible for providing soil penetration testing data (SPT) to the pole manufacturer so site specific foundations can be designed.

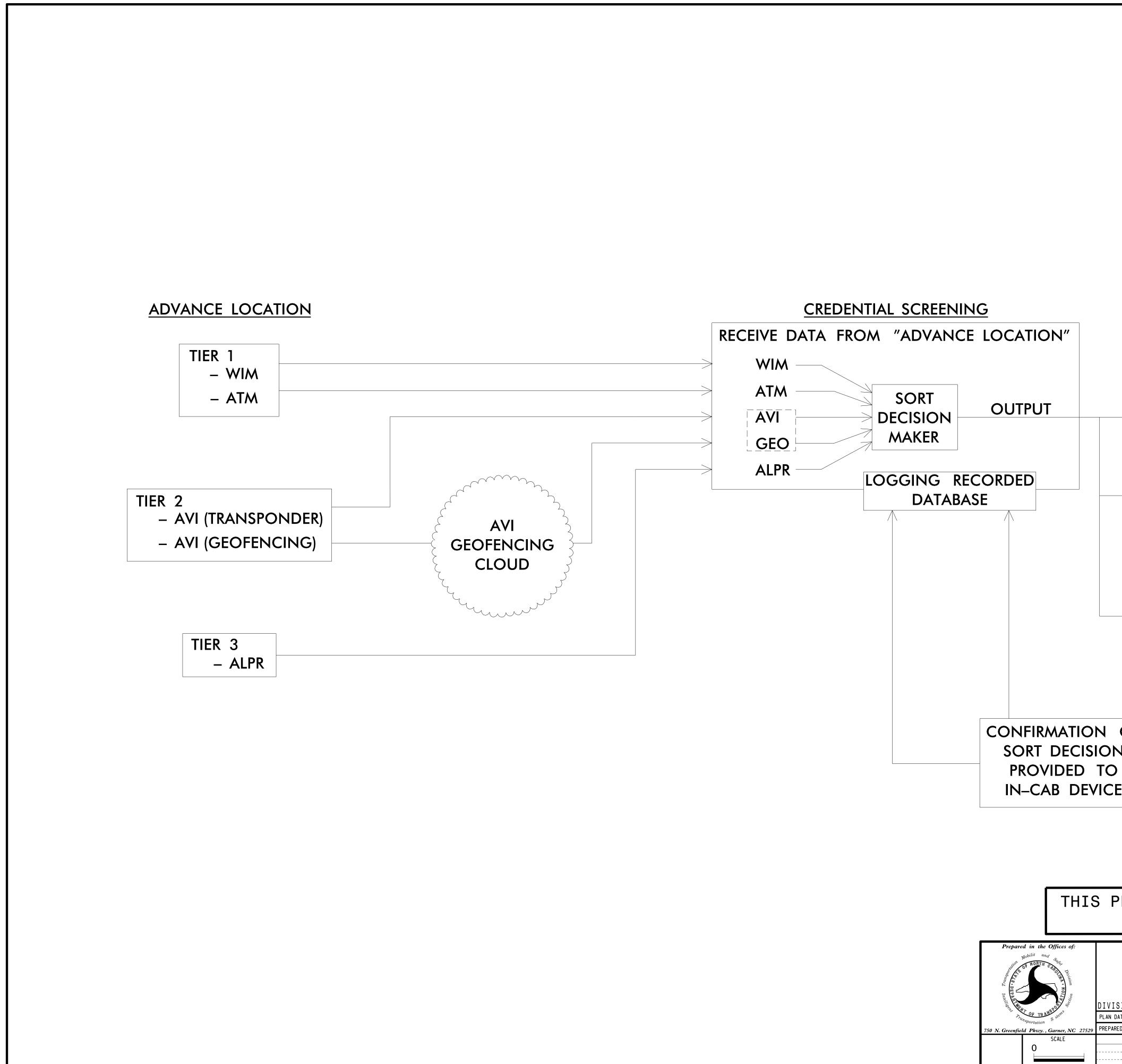
### NCDOT Wind Zone 4 (90 mph)

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pared in the Offices of:	METAL POLE WITH MAST ARM	SEAL SEAL SEAL SEAL
	DIVISION 13 BUNCOMBE CO. NEAR ASHEVILLE	036626
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enfield Pkwy., Garner, NC 27529	PREPARED BY: G.A. GREEN REVIEWED BY: C. F. ANDREWS	C. DUNNIN
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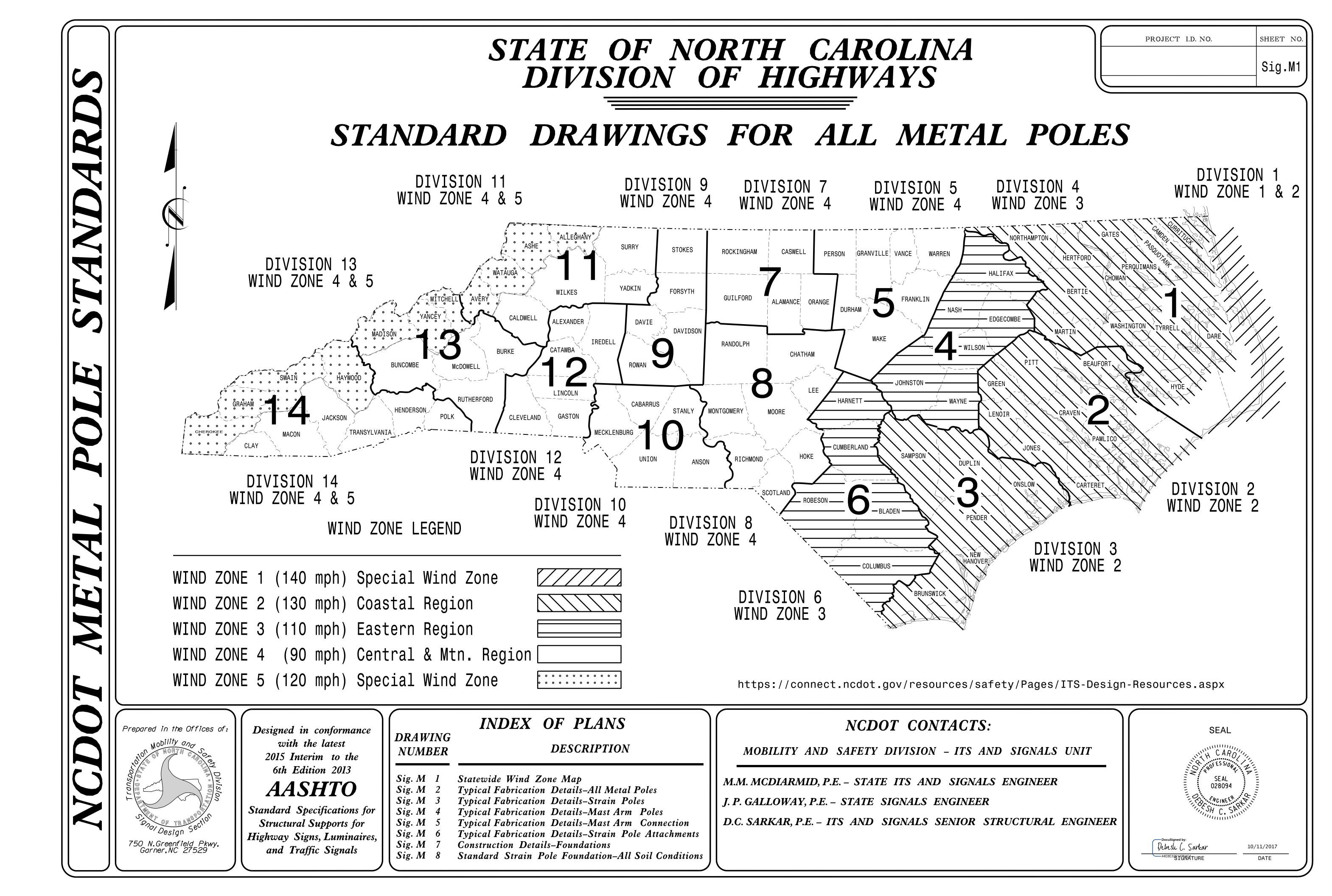


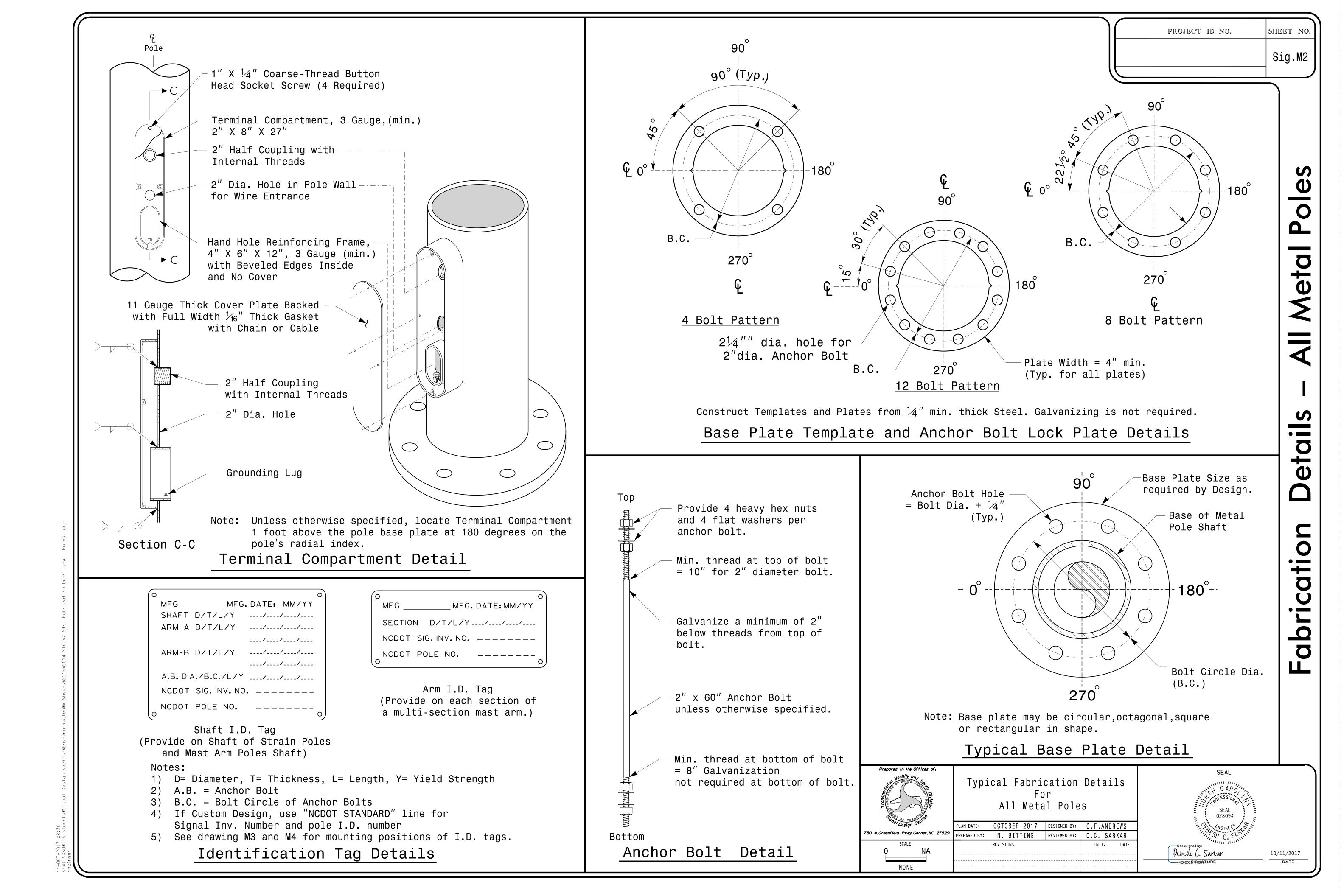


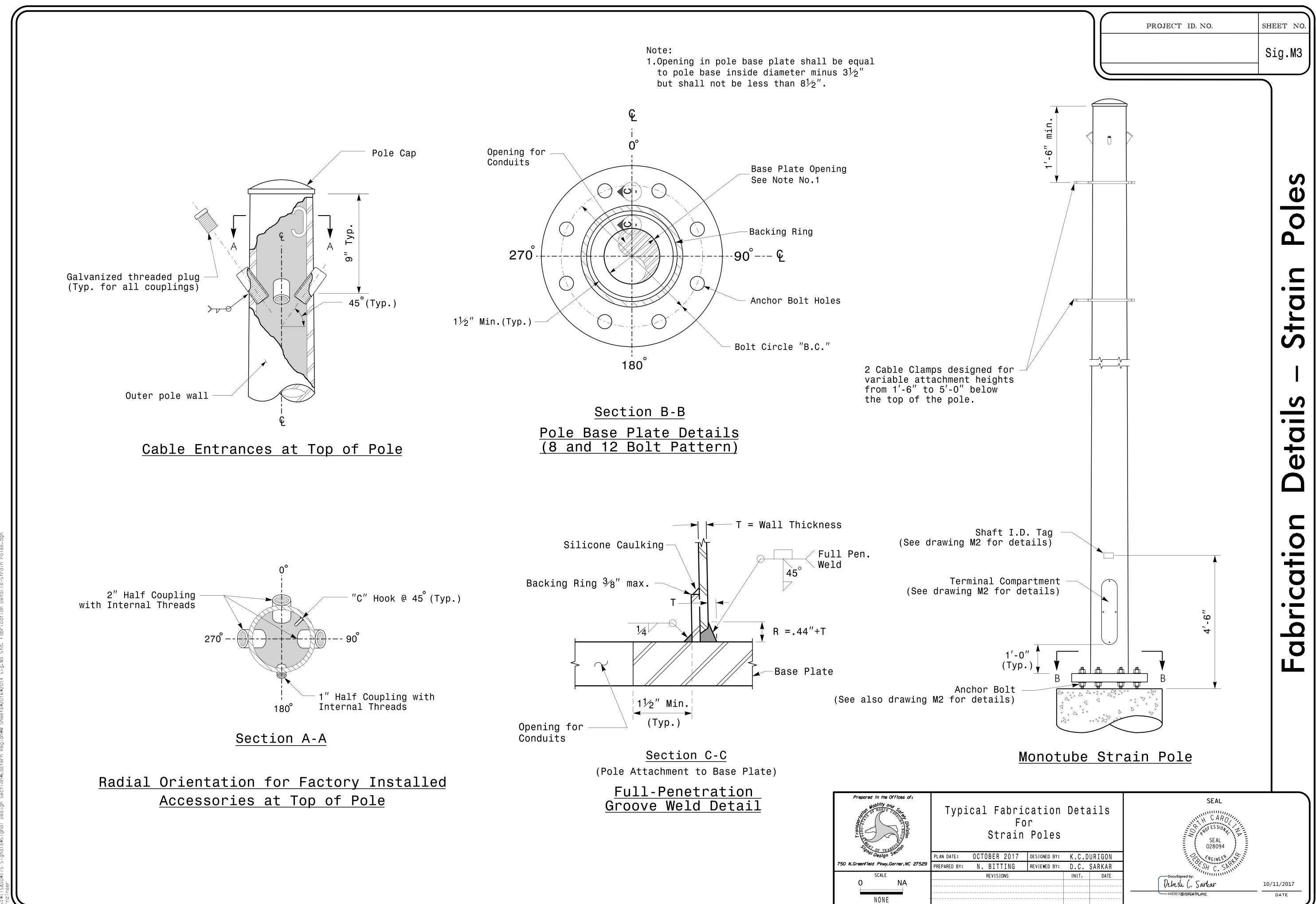


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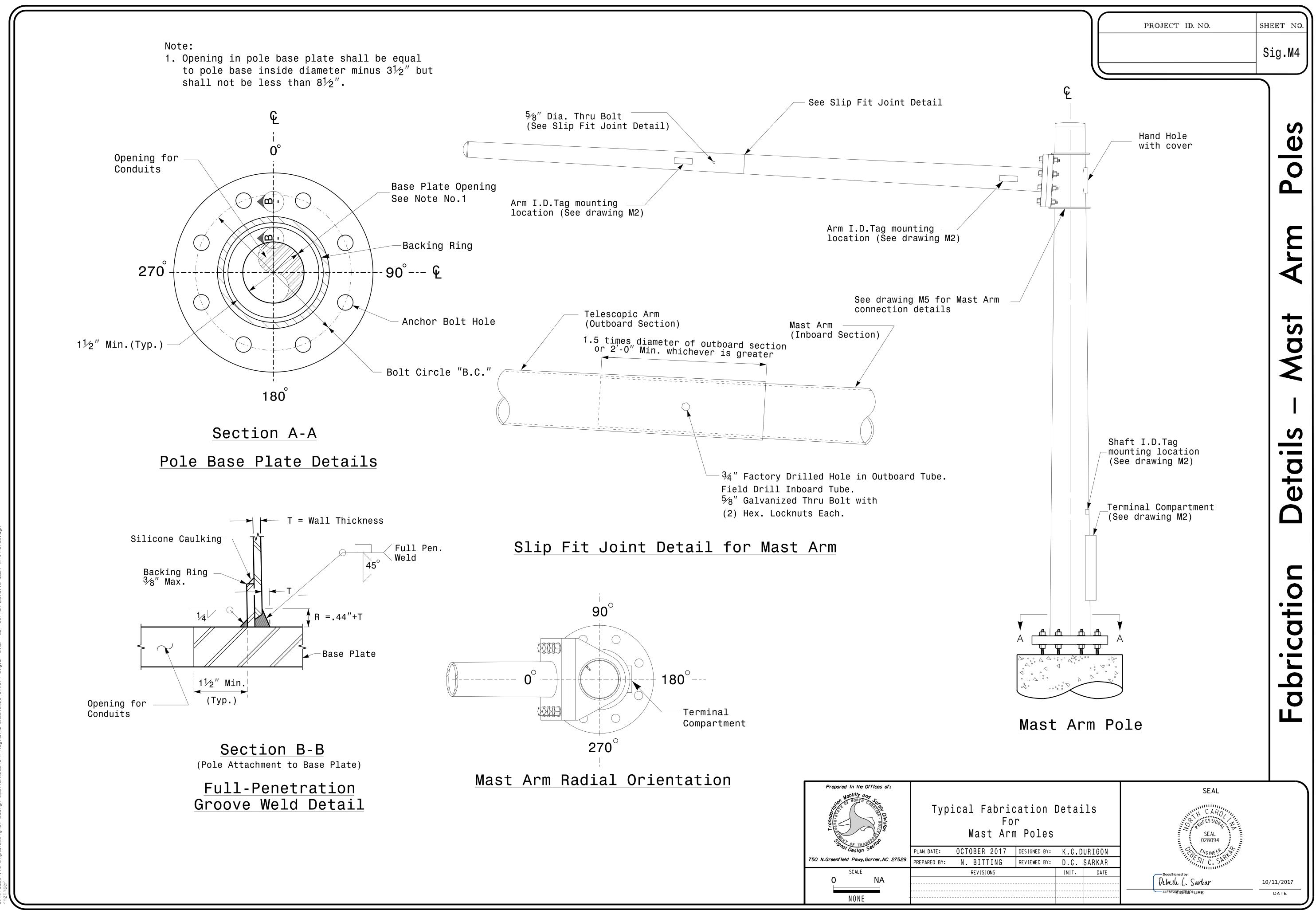


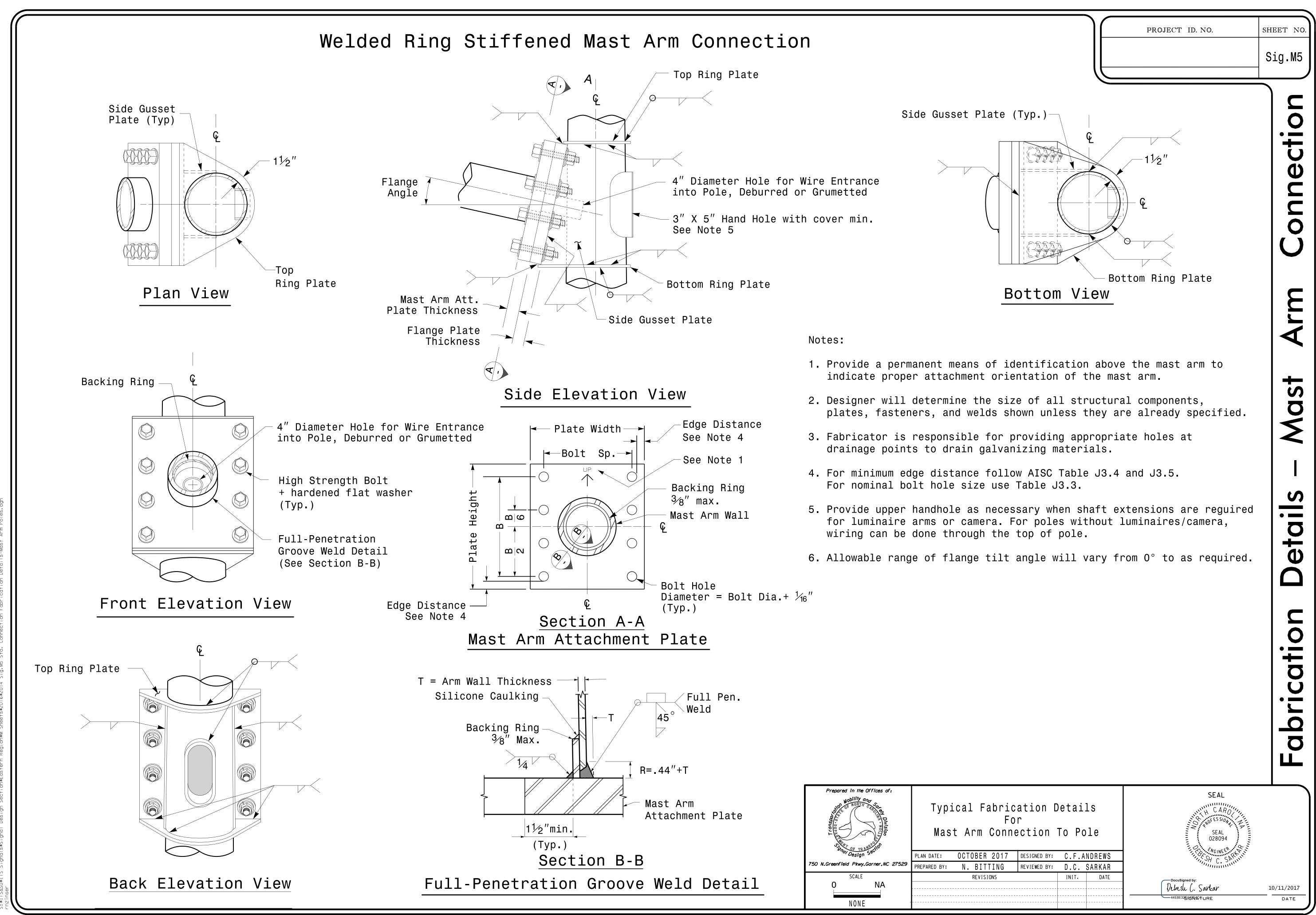




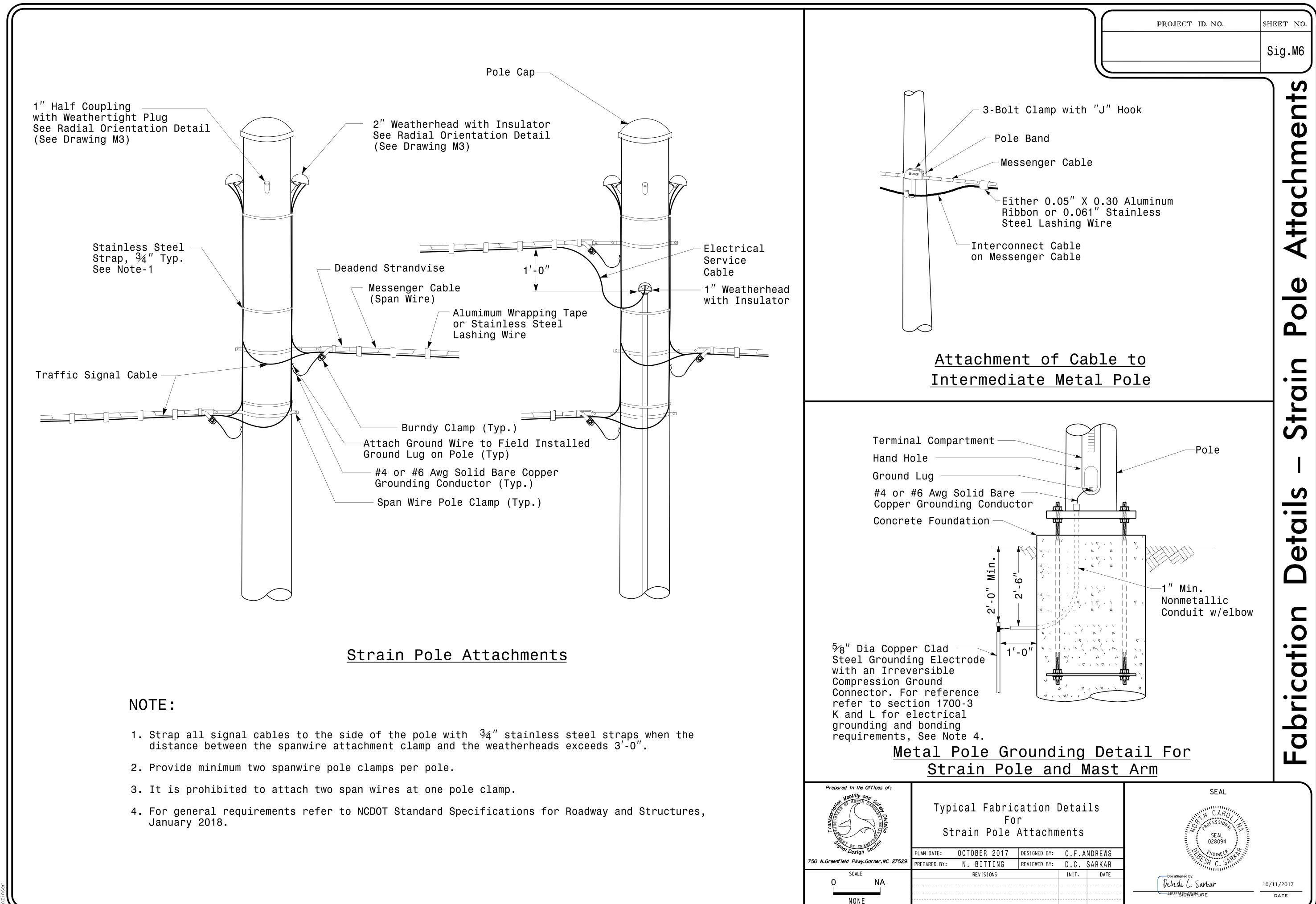
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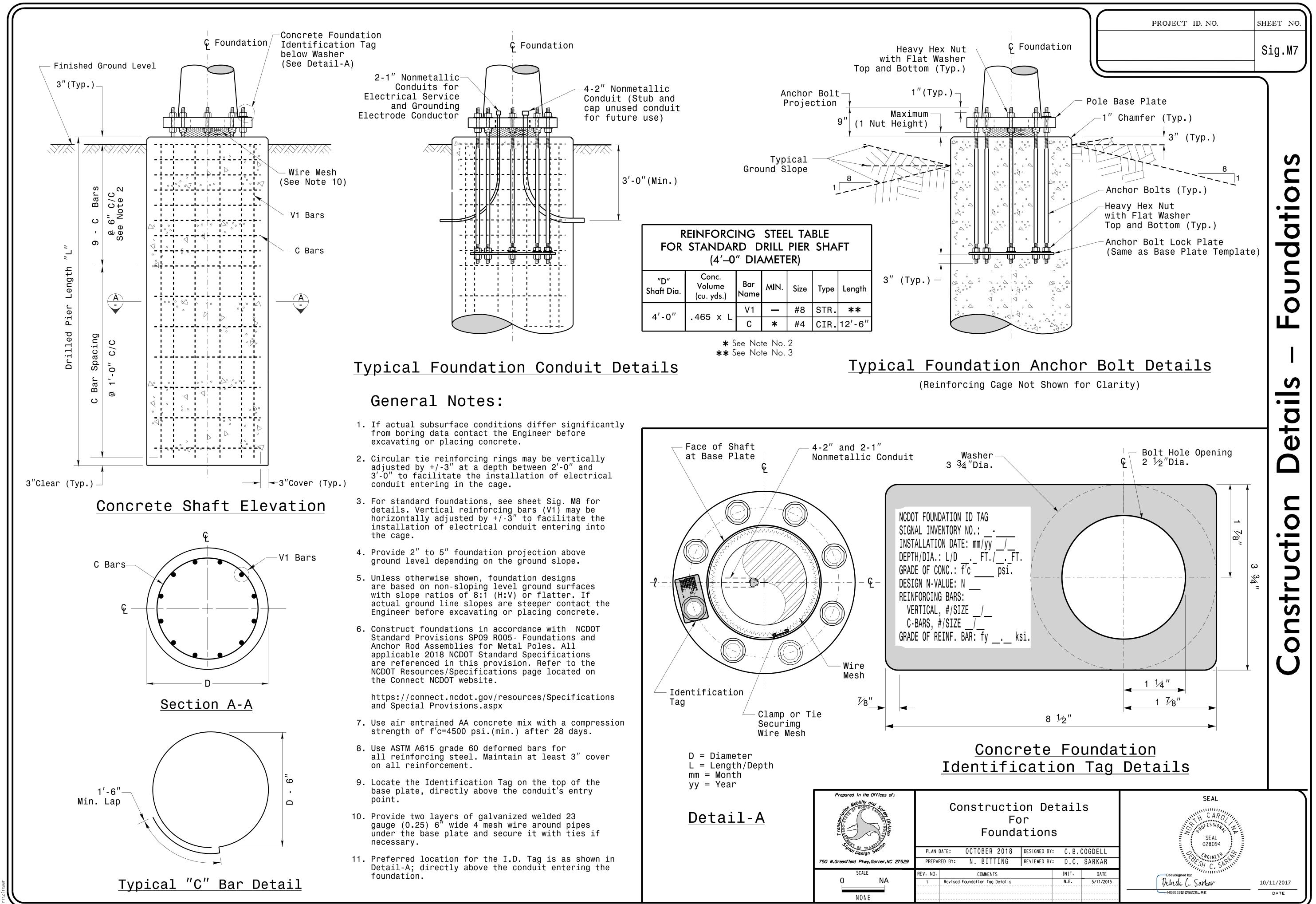
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					IDARD					TANDAR Diameter D						Reinfor	cement	
				Base	Reaction	ns at the	Pole Base		C	ay			Sand		Longit	udinal	Stir	rups
		Case No.	Pole Height (Ft.)	Plate BC (In.)	Axial (kip)	Shear (kip)	Moment (ft–kip)	Medium N–Value 4–8	Stiff N–Value 9–15	Very Stiff N–Value 16–30	Hard N–Value >30	Loose N–Value 4–10	Medium N–Value 11–30	Dense N–Value > 30	Bar Size (#)	Quantity (ea.)	Bar Size (#)	Spacing (in.)
W	L	S26L3	26	25	2	11	270	19	13	10	8	17	14.5	12.5	8	12	4	12
N D	G H	S30L3	30	25	2	11	300	19.5	13.5	10	8	17.5	15	13	8	14	4	12
Z 0	Ť	S35L3	35	25	3	11	320	20	13.5	10.5	8	17.5	15	13	8	14	4	12
N E	H E A	S30H3	30	29	3	16	450	24.5	16	12	9	21	17.5	15	8	16	4	6
1	V Y	S35H3	35	29	4	16	515	26	17	12.5	9.5	22	18.5	16	8	16	4	6
W		S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
л N D	G H	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
Z O	Ť	S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
N E	H E A	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
2	V Y	S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
W		S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
Ñ D	G H	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
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N E	H E A	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
3	V Y	S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
W		S26L1	26	22	2	8	190	16	11.5	8.5	8	15	12.5	11	8	12	4	12
N D	Ġ H	S30L1	30	22	2	8	205	16.5	11.5	9	8	15	13	11.5	8	12	4	12
Z O	T	S35L1	35	22	3	8	230	17	12	9	8	15.5	13.5	11.5	8	12	4	12
N E	HEA	S30H1	30	25	3	12	320	20.5	13.5	10.5	8	18	15	13.5	8	16	4	6
4	V Y	S35H1	35	25	4	12	350	21	14	10.5	8.5	18.5	15.5	13.5	8	16	4	6
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Prepared in the Offices of: Nobility and Nobility and N	
Design Section	PLAN
750 N.Greenfield Pkwy,Garner,NC 27529	PREP
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O NA	Chang
NONE	

PROJECT ID. NO.

## General Notes:

1. Values shown in the "Reactions at the Pole Base" column represent the minimum acceptable capacity allowed for design using a design CSR of 1.00. 2. Use chairs and spacers to maintain proper clearance. 3. For foundation, always use air-entrain concrete mix.

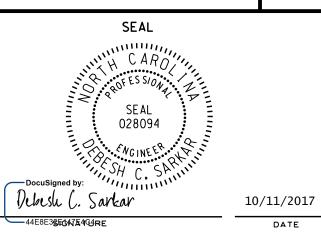
## Foundation Selection:

1. Perform a standard penetration test at each proposed foundation site to determine "N" value. 2. Select the appropriate wind zone from M 1 drawing. 3. Select the soil type (Clay or Sand) that best describes the soil characteristics. 4. Get the appropriate standard pole case number from the plans or from the Engineer. 5. Select the appropriate column under "Standard Foundations" based on soil type and "N" value. Select the appropriate row based on the pole load case. 6. The foundation depth is the value shown in the "Standard Foundations" category where the column and the row intersect. 7. Use Construction Procedures and Design Methods prescribed

by FHWA-NHI-10-016 for Reference Drilled Shafts.

Condition Soil oundation-All ЦĽ ole Δ Strain Standard

Standard S Foundatic Soil Co	on for	A11		
DATE: OCTOBER 2017	DESIGNED BY:	C.B. CO	GDELL	
ARED BY: N. BITTING	REVIEWED BY:	D.C. SA	RKAR	
REVISIONS		INIT.	DATE	
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## OF NORTH CAROLINA **IENT OF TRANSPORTATION**

# GNING PLAN COMBE COUNTY

## OUND WEIGH STATION UPGRADE

	SUMMARY OF QUANTITIES		
•	ITEM DESCRIPTION	QUANTITY	UNIT
ECT. NO.			
902	PLAIN CONCRETE SIGN FOUNDATION	1	С.Ү.
903	SUPPORTS, BREAKAWAY STEEL BEAM	279	LB.
903	SUPPORTS, SIMPLE STEEL BEAM	622	LB.
904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	1	EA.
904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	2	EA.
907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	1	EA.
		1	1

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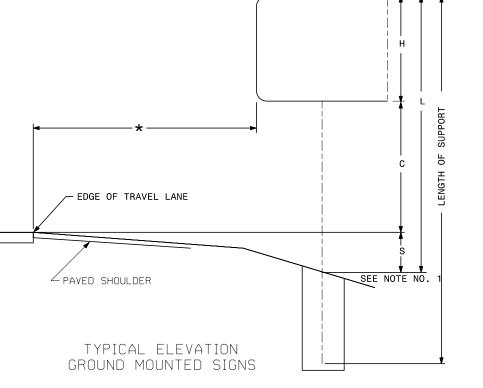
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. SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

	INDEX
SHEET NO.	DESCRIPTION
SIGN-1 SIGN-2	TITLE SHEET SUPPORT INFORMATION
SIGN-3 SIGN-4	SIGN DESIGNS SIGNING PLAN SHEET

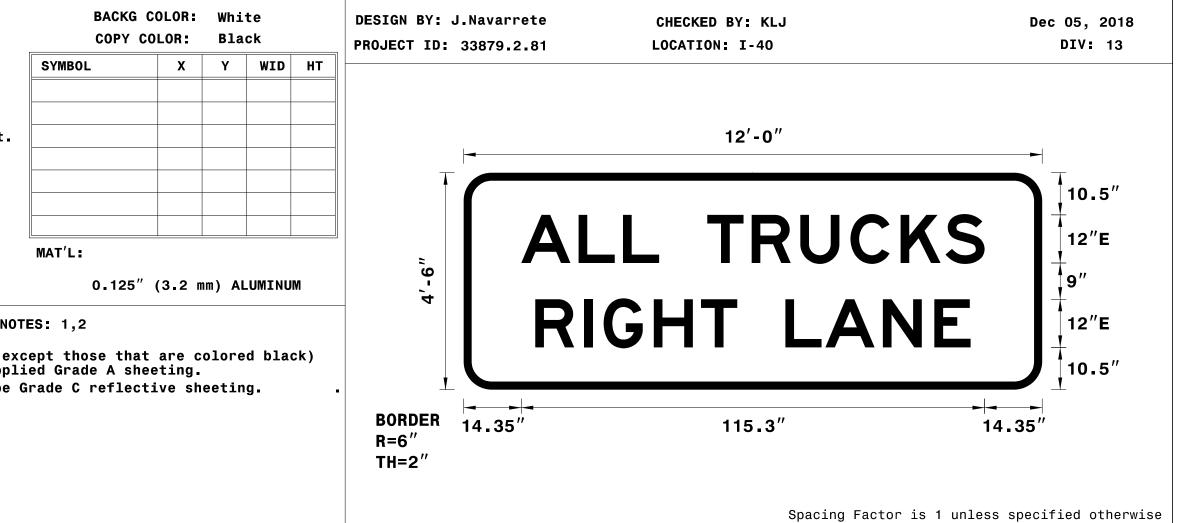
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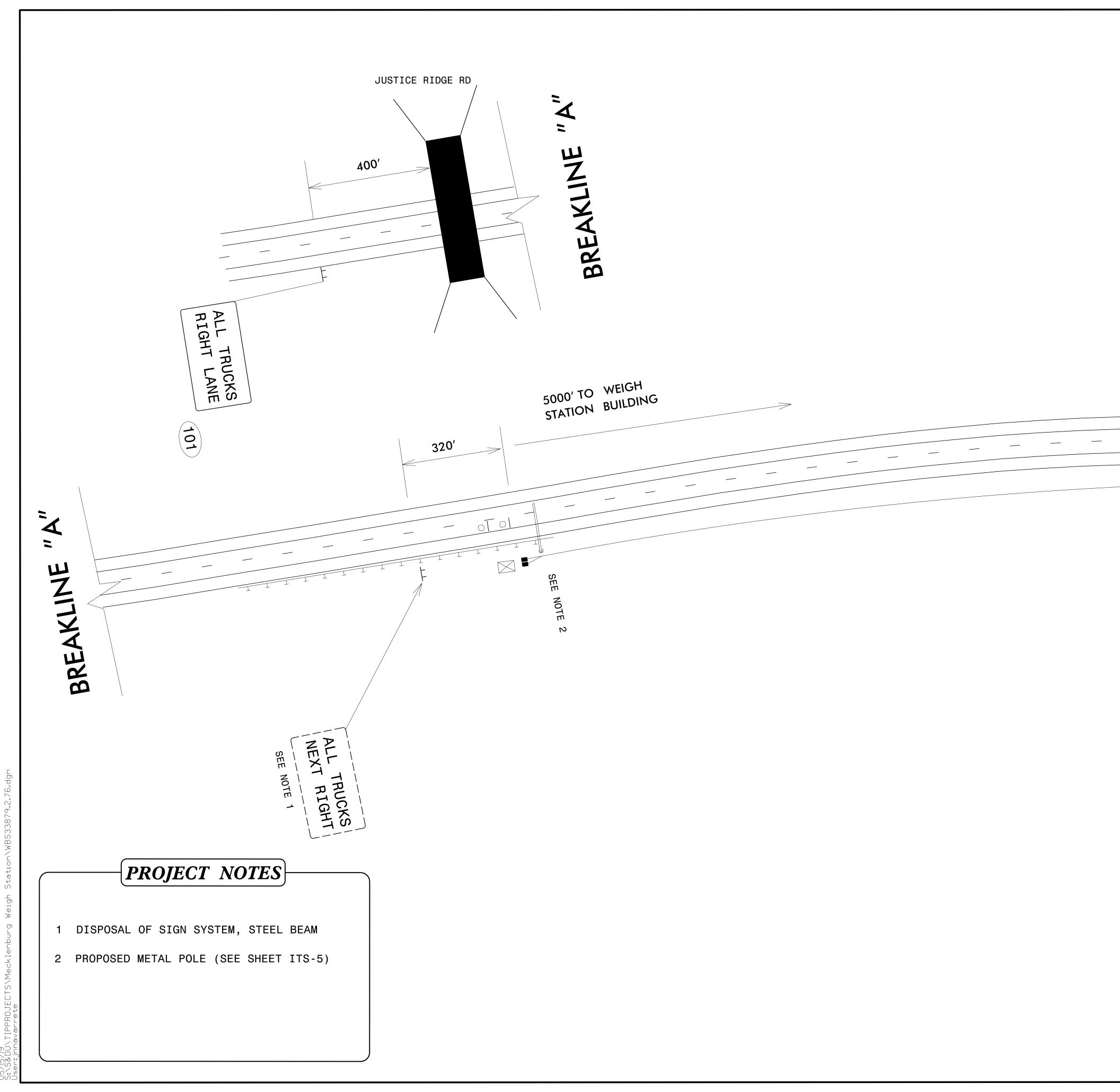
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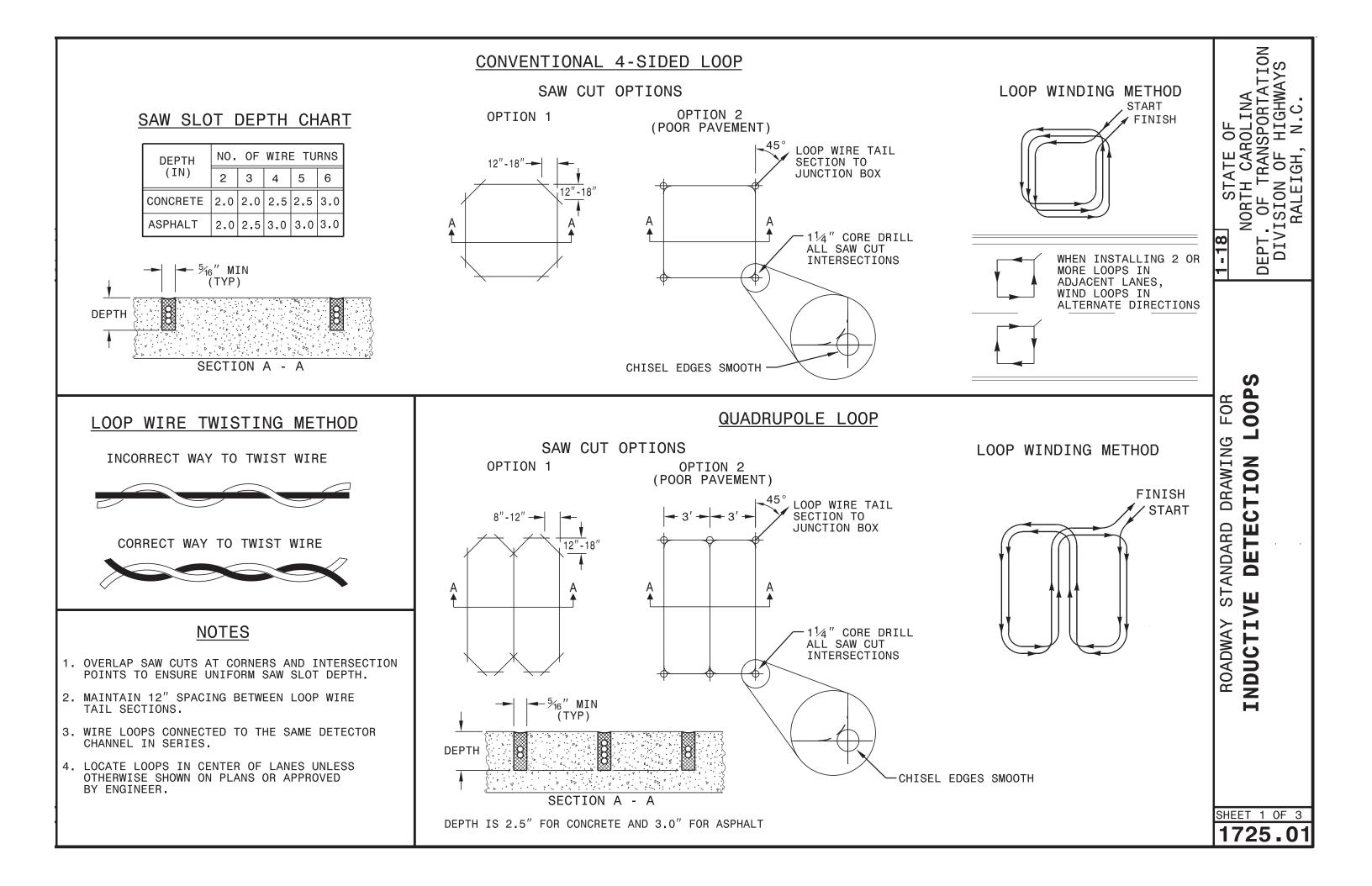
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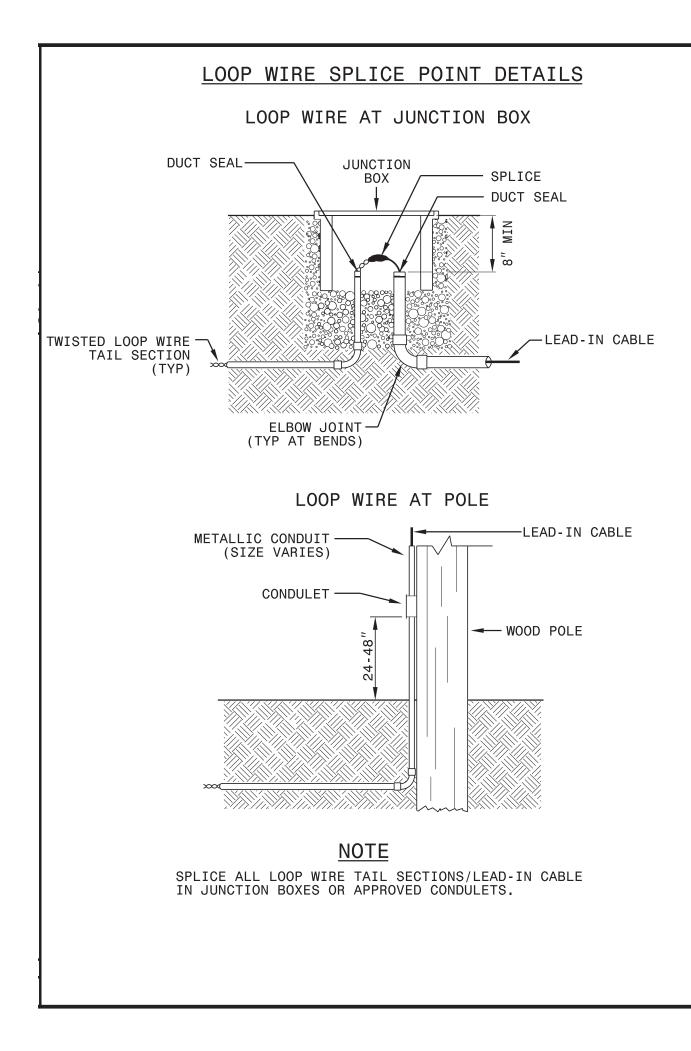
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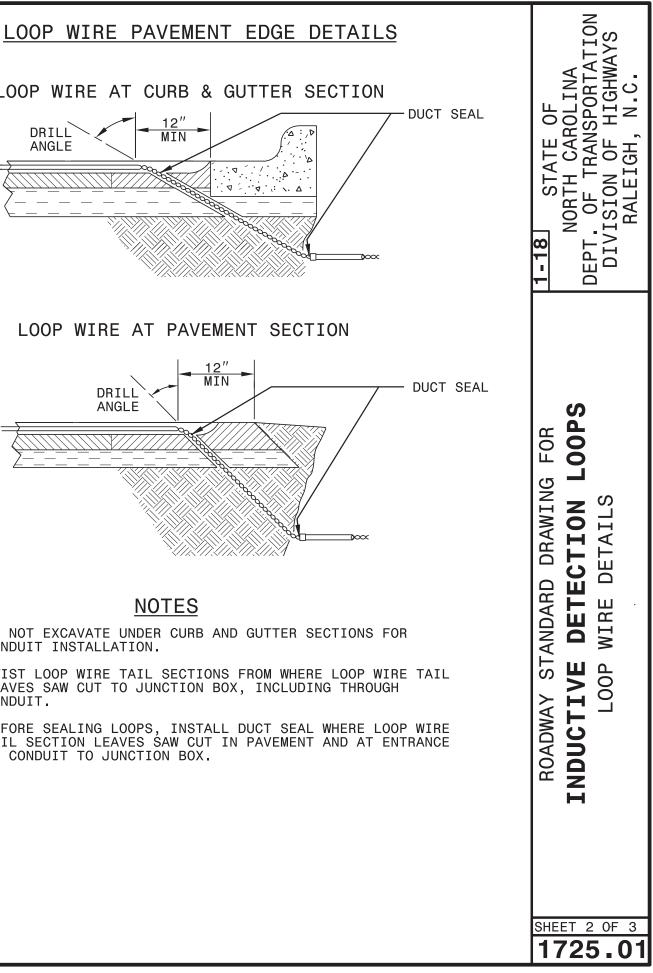
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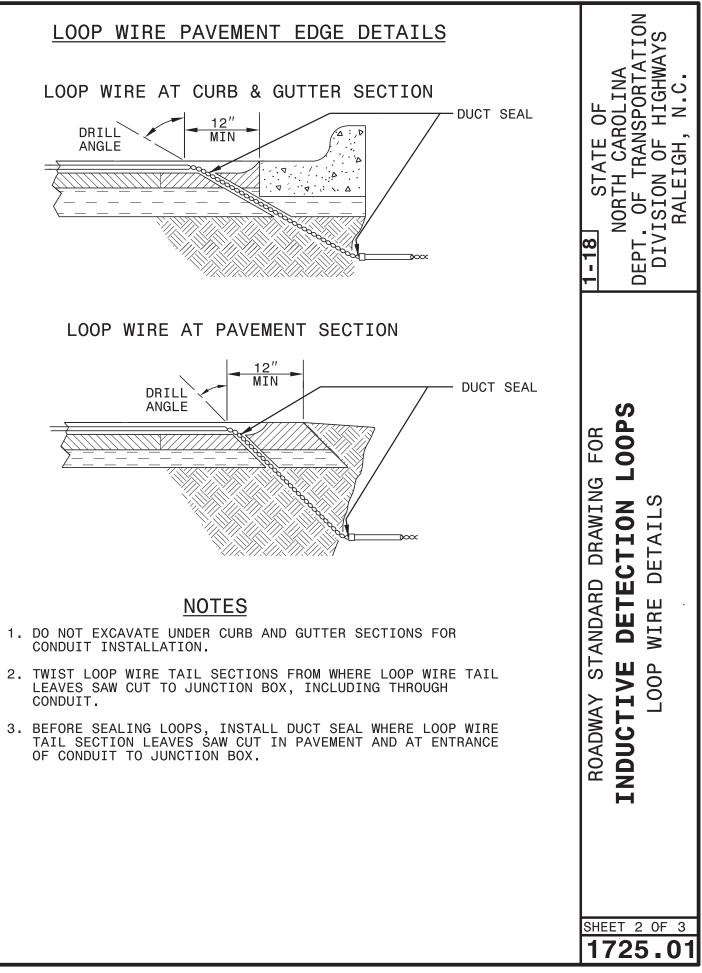


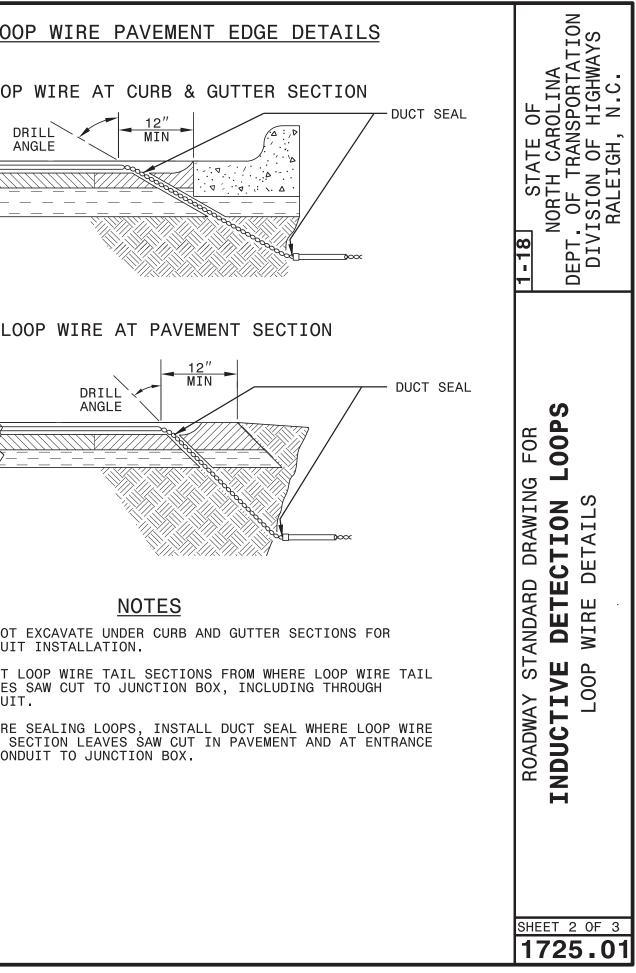
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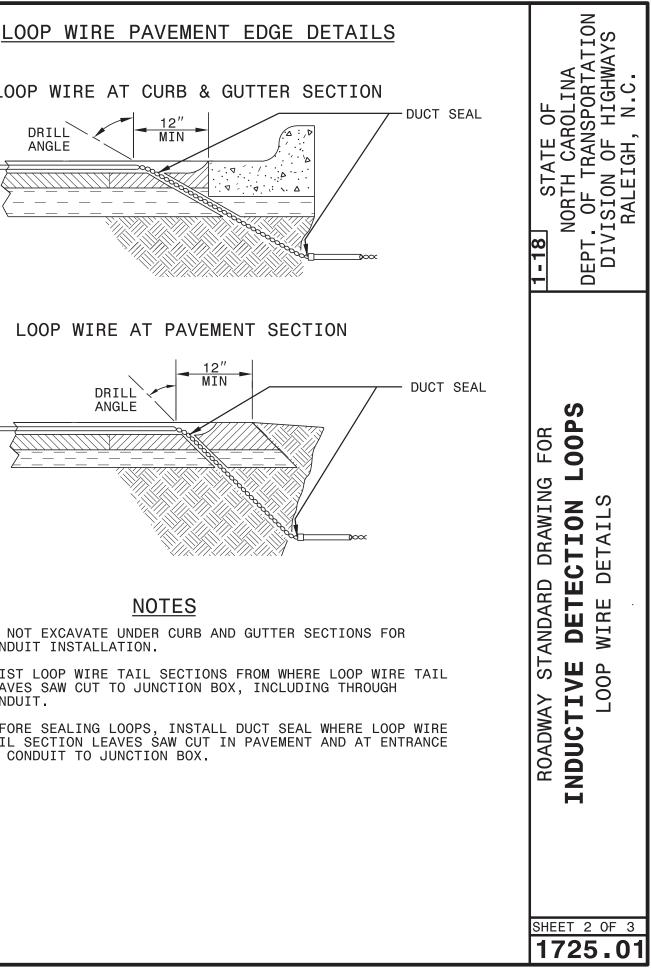












- CONDUIT INSTALLATION.
- CONDUIT.
- OF CONDUIT TO JUNCTION BOX.

