This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document -

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page. This file or an individual page shall not be considered a certified document.



LENGTH OF ROADWAY WBS PROJECT 7B.107914.9 = 0.034 MI TOTAL LENGTH WBS PROJECT 7B.107914.9 = 0.034 MI

T = 10 % *

TTST=5%/DUAL=5%

PRINCIPLE ARTERIAL

FUNC CLASS =

STATEWIDE TIER

V = 70 MPH

10(

\$\$\$-USER NAME-\$\$\$ - \$\$\$-DATE-\$\$\$

25

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ROCKINGHAM COUNTY

LOCATION: US 29 CROSSLINE WORK - PIPE 1

TYPE OF WORK: *DRAINAGE*



STATE	STAT	E PROJECT REFERENCE NO.	EFERENCE NO.									
$\mathbb{N}_{\mathbb{C}}$	7E	7B.107914.9										
STAT	TE PROJ. NO.	F. A. PROJ. NO.	F. A. PROJ. NO.									
	N/A	N/A	N/A									



INDEX O	F SHEETS
SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1 THRU 2C-2	GUARDRAIL DETAILS
3D-1	DRAINAGE SUMMARIES
4	PLAN AND PROFILE SHEET
TMP-1 THRU TMP-1A	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-4A	EROSION CONTROL PLANS
C1-1 THRU C1-2	ENDWALL DETAILS

EFF. 01/16/2024 REV. 2024 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" CONTRACTS STANDARDS AND DEVELOPMENT UNIT -N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY 16, 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO. TITLE

DIVISION 2 - EARTHWORK 200.02 METHOD OF CLEARING - METHOD II 275.01 ROCK PLATING

DIVISION 8 - INCIDENTALS862.01GUARDRAIL PLACEMENT862.02GUARDRAIL INSTALLATION876.02GUIDE FOR RIP RAP AT PIPE OUTLETS

GENERAL NOTES:

2024 SPECIFICATIONS EFFECTIVE: 1/16/2024 REVISED:

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE ESTABLISHED BY METHOD II.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

SHORING REQUIRED FOR MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORKK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATIONS AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE: NONE



Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	· · ·
Property Line	· ·
Existing Iron Pin (EIP)	
Computed Property Corner	×
Existing Concrete Monument (ECM)	ECM
Parcel / Sequence Numbe r	(123)
Existing Fence Line	
Proposed Woven Wire Fence	0
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	\rightarrow
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	· WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	ЕРВ ———
Existing Historic Property Boundary	нрв ———
Known Contamination Area: Soil	💓 - s 💓 - s
Potential Contamination Area: Soil	
Known Contamination Area: Water	-) : - w -) : - w -
Potential Contamination Area: Water	- X - w - X - w -
Contaminated Site: Known or Potential	
BUILDINGS AND OTHER CULTU	U RE:
Gas Pump Vent or U/G Tank Cap	

Oas I unip vent of 0/0 Tank Oap	\bigcirc
Sign	\bigcirc S
Well	O W
Small Mine —	\propto
Foundation —	
Area Outline	
Cemetery	†
Building —	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	<
Disappearing Stream	>
Spring	0
Wetland	\downarrow
Proposed Lateral, Tail, Head Ditch	
False Sump	



Standard Gauge
RR Signal Milepost
Switch
RR Abandoned
RR Dismantled

RIGHT OF WAY & PROJECT CONTROL: Primary Horiz Control Point Primary Horiz and Vert Control Point Secondary Horiz and Vert Control Point —— Vertical Benchmark -Existing Right of Way Monument-Proposed Right of Way Monument -(Rebar and Cap) Proposed Right of Way Monument-(Concrete) Existing Permanent Easement Monument \diamond Proposed Permanent Easement Monument \bigotimes (Rebar and Cap) Existing C/A Monument \land Proposed C/A Monument (Rebar and Cap) — Proposed C/A Monument (Concrete)— Existing Right of Way Line -Proposed Right of Way Line-Existing Control of Access Line Proposed Control of Access Line-Proposed ROW and CA Line Existing Easement Line-Proposed Temporary Construction Easement-Proposed Permanent Drainage/Utility Easement _____DUE____ Proposed Permanent Utility Easement _____ ____ Proposed Temporary Utility Easement ______ _____ Proposed Aerial Utility Easement ______ _____ ROADS AND RELATED FEATURES:

Existing Edge of Pavement _____ ____ Existing Curb

Proposed Slope Stakes Cut Proposed Slope Stakes Fill Proposed Curb Ramp — Existing Metal Guardrail — Proposed Guardrail —— Existing Cable Guiderail Proposed Cable Guiderail Equality Symbol Pavement Removal **VEGETATION:**

Single Tree _____ Single Shrub ——— Hedge ———

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

+++++++
CSX TRANSPORTATION
 \odot
MILEPOST 35
SWITCH

	<u> </u>
ıt ———	<u>C</u>
I	F
	CR
	TT
	<u> </u>
	<u> </u>
	සි
	¢.
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Woods Line	
Orchard ———	හි හි හි හි
Vineyard	Vineyard
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert [	CONC
Bridge Wing Wall, Head Wall and End Wall –	) CONC WW (
MINOR:	, ,
Head and End Wall	CONC HW
Pipe Culvert	
Footbridge	≺
Drainage Box: Catch Basin, DI or JB	СВ
Paved Ditch Gutter	
Storm Sewer Manhole	S
Storm Sewer	s
UTILITIES:	
* SUE - Subsurface Utility Engineering	,
LOS - Level of Service - A,B,C or D (Ad	ccuracy)
POWER:	4
Existing Power Pole	•
Proposed Power Pole	O ⊥
Existing Joint Use Pole	- <b>-</b> 1
Proposed Joint Use Pole	-0-
Power Manhole	(P)
Power Line Tower	$\boxtimes$
Power Transformer	$\swarrow$
U/G Power Cable Hand Hole	HH
H-Frame Pole	••
U/G Power Line Test Hole (SUE - LOS A)* $-$	
U/G Power Line (SUE - LOS B)*	— — — P— — — —
U/G Power Line (SUE - LOS C)*	P
U/G Power Line (SUE - LOS D)*	P
TELEPHONE:	
Existing Telephone Pole	
Proposed Telephone Pole	-0-
Telephone Manhole	$\bigcirc$
Telephone Pedestal	T
Telephone Cell Tower	$\sqrt{\Phi}_{y}$
U/G Telephone Cable Hand Hole ———	H _H
U/G Telephone Test Hole (SUE - LOS A)* —	
U/G Telephone Cable (SUE - LOS B)*	t
U/G Telephone Cable (SUE - LOS C)*	T
U/G Telephone Cable (SUE - LOS D)*	T
U/G Telephone Conduit (SUE - LOS B)* ——	— — — TC — — –
U/G Telephone Conduit (SUE - LOS C)* ——	TC
U/G Telephone Conduit (SUE - LOS D)*	TC
U/G Fiber Optics Cable (SUE - LOS B)*	— — — T FO— — ·
U/G Fiber Optics Cable (SUE - LOS C)*	T FO
U/G Fiber Optics Cable (SUE - LOS D)*	T F0

	7B.107914.9
	4CS1 001B
WATER:	
Water Manhole	Ŵ
Water Meter	$\Box$
Water Valve	$\otimes$
Water Hydrant —	¢
U/G Water Line Test Hole (SUE - LOS A)* $-$	
U/G Water Line (SUE - LOS B)*	— — — w — — — —
U/G Water Line (SUE - LOS C)*	w
U/G Water Line (SUE - LOS D)*	w
Above Ground Water Line	A/G Water
TV:	
TV Pedestal	
TV Tower	$\bigotimes$
U/G TV Cable Hand Hole	Нн
U/G TV Test Hole (SUE - LOS A)*	
U/G TV Cable (SUE - LOS B)*	— — — TV— — — –
$U/G TV Cable (SUE - LOS C)^*$	TV
$U/G TV Cable (SUE - LOS D)^{*}$	
U/G Fiber Optic Cable (SUE - LOS B)*	— — — TV F0— — —
U/G Fiber Optic Cable (SUE - LOS C)*	TV F0
U/G Fiber Optic Cable (SUE - LOS D)" —	IV F0
GAS: Gas Valve	$\diamond$
Gas Meter	$\stackrel{\mathbf{v}}{\ominus}$
U/G Gas Line Test Hole (SUE - LOS A)* —	$\overset{\vee}{}$
U/G Gas Line (SUE - LOS B)*	c
U/G Gas Line (SUE - LOS C)*	G
U/G Gas Line (SUE - LOS D)*	C
Above Ground Gas Line	A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole	$\oplus$
Sanitary Sewer Cleanout	$\oplus$
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	
SS Force Main Line (SUE - LOS B)*	— — — — FSS — — — –
SS Force Main Line (SUE - LOS C)*	——— — FSS — — ——
SS Force Main Line (SUE - LOS D)*	FSS
MISCELLANEOUS:	
Utility Pole with Read	
Utility Loosted Object	
Utility Troffic Signal Ray	$\odot$
Utility Linknown LI/G Line (SLIE LOS R)*	
$\bigcup_{i \in \mathcal{N}} \bigcup_{i \in \mathcalN} \bigcup_{i \in$	?UIL
Underground Storage Tank Approx Log	
A/G Tank: Water Gae Oil	
Geoenvironmental Roring	
Abandoned According to Utility Records	
End of Information	E.O.I.

	PAVEMENT SCHEDULE	
J	6" AGGREGATE BASE COURSE.	
NOTE:	PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	
		/
	ORIGINAL GROUND	
l		





## ORIGINAL GROUND





COMPUTED BY: W.G. Cail DATE: 2/11/2025   CHECKED BY: DATE: DATE:						-									N	OF	RT	н	CA	ROL	INA	DE	EPA	RΊ	<b>`M</b> `	EN	T (	OF	TF	ANS	SPO	ORTATION	 _					
Note: Inv	vert	t Eleva	itions	indica	ated a	are fo	or Bid Purpose	es on	nly ar	nd sł	nall no	ot be	e use	ed fo	or pr	oje	ct c	onst	ruc	ction stak	eout. <i>TT</i>	с7		FI	DIDEC	DI EN	VIS עומי			)F <i>F1</i>	HI	GH		AYS	5 2 F S 5	1"		
STATION		STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	Welded Stee (UNLESS NOTED C			C	S.S. PIF	ΡĒ						STRUCT	URAL	PLATE	<u>I</u> ' <u>I</u>		REINFO		UCTURES		FRA STA	FRAMES, GRATES & HOOD STANDARD 840.03		CONCRETE TRANSITIONAL	SECTION		4					
SIZE	LUCAIR	_					54" 60" 66" 72" 78	8" 84"			54	54" 60		60"	66"			72"		60"	66"		72"		78"	с. Ү.	c.Y.	JRAINAGE STR DS	10.01 OR 840.02	TYPE OF GRA		(PE OF GRATE		N				
THICKNESS OR GAUGE	HOUL	F ROM								.109	.138	.138	.168	.138 168	.138	.168	.139	.168	1	12 10	12 10		12 1	0		WITH R.C	WITH C.S	MASONRY I CUBIC YARI	C.B. STD. 84	E	F (	6	DROP INLET	CATCH BAS				
US 29	Inl	let Outlet		602.9	597.0		261												╡																			╞
																			Ŧ																			
																																						╞
																																						╞
																			+																			
																																						╞
																			+																			┝
SHEET TOTALS							261												╡							0										·		

					PROJECT	ſNO.	SHEET NO.
					7B.1079	14.9	3D-1
				~		С.В.	CATCH BASIN
	SNC	SNC		840.7		N.D.I. D.I.	NARROW DROP INLET DROP INLET
	SECTI	SECTIO	& SIZE	. STD.		G.D.I. G.D.I.(N.S.)	GRATED DROP INLET GRATED DROP INLET
	END	END	S NO. 8	в" с.Ү			(NARROW SLOT)
	ARED	ARED	BOW	: CL. "	-IN. FI	J.B. M.H.	JUNCTION BOX MANHOLE
	NC. FI	EL FL	EL EL	LLARS	DVAL I	T.B.D.I.	TRAFFIC BEARING DROP INLET
	JF. CO & SIZE	tR. STI & Size	R. STI	IC. CO	E REMO	T.B.J.B.	TRAFFIC BEARING
	REIN NO.	COR NO.	COR	CON	PIPE	RE	MARKS
						Minimum 1	00 inch thickness
						l	
						ļ	

Docusign Envelope ID: 1720DDB9-D990-47D9-8FA8-0D4B198A4E84







SHEET NO
TMP-1A
ROAL
THE FOLLOW] DRAWINGS" - DATED JAN 2 HEREBY ARE
STD. N
1101.01 1101.02 1101.04 1101.05 1101.11 1110.01 1110.02 1130.01
1135.01 1160.01 1165.01 1170.01
STEP 1. US WARNING SIG
STEP 2. USI SHOULDER AS ENGINEER IN
STEP 3. USI ALL REMAINI



OF SHEETS	SHEET NO. TMP-1
TITLE VICINITY MAP, INDEX OF SHEETS, ICABLE ROADWAY STANDARD D PHASING ON OPERATIONS PLAN: (MANAGEMENT ND GENERAL NOTES)	
DARD DRAWINGS	
S AS SHOWN IN "ROADWAY STANDARD TRANSPORTATION - RALEIGH, N.C., TO THIS PROJECT AND BY REFERENCE F THESE PLANS:	0000
ITLE	
OVANCE WARNING SIGNS ANE CLOSURES HOULDER CLOSURES HCILE ACCESSES TROL DESIGN TABLES WORK ZONE SIGNS RK ZONE SIGNS RASH CUSHION ED ATTENUATOR NCRETE BARRIER	
<b>ISING</b>	
EET 1 OF 3), PLACE ADVANCE	
ET 4 OF 19), PLACE PCB ON 04 (SHEET 1 OR 2 OF 2) PER E PIPE AWAY FROM TRAFFIC.	
ET 4 OF 19), REMOVE PCB AND DEVICES.	
	PROJECT:
UNLESS ALL SIGNATURES COMPLETED	
APPROVED: Helen Shyu OF15975A95E44EF DATE: 2/19/2025 SEAL SEAL SEAL O42517	
	DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTIONS DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPT

MANAGEMENT **STRATEGIES** THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP). TRAFFIC MANAGEMENT STRATEGIES: LANE SHIFTS OR CLOSURES SHOULDER CLOSURES WORK HOUR RESTRICTIONS FOR PEAK TRAVEL **GENERAL NOTES** CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER. THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER. TIME RESTRICTIONS A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS: ROAD NAME DAY AND TIME RESTRICTIONS ANY ROADS MONDAY THRU FRIDAY 6:00 A.M. - 7:00 P.M. B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS ROAD NAME ANY ROADS HOLIDAY 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER. 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY. 3. FOR EASTER. BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY. 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY. 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY. 6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY. 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY. 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

### TIME RESTRICTIONS CONTINUED

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
  - I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER

TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC BARRIE

M) INSTALL TE MANAGEMENT IN ANY LOC AT ANY LOC PROPOSED W TRANSPORTA

> DO NOT PLA OR CONCRET

ONCE TEMPO IS PERFORM TWO (2) MO DEPARTMENT PLANS, TEM THE ENGINE

INSTALL TE THE UPSTRE TRAFFIC FL

INSTALL AN LIMIT (MPH UNTIL THE BARRIER IS

N) PROTECT TH ALL TIMES EITHER A T CRASH CUSH

> PROTECT TH ONCOMING T THE APPROA FROM ONCOM ALSO 1101.

POSTED SPE 40 OR LESS 45 - 50 55

60 MPH or

PAVEMENT MARKI

0) REPLACE AN EACH DAY'S

APPROVED: _		
DATE:	SEAL	



		PROJ. REFERENCE NO.	SHEET NO.
		DG00662	TWP-TA
R			
MPORARY BARRIER ACC PLANS A MAXIMUM OF ATION. ONCE TEMPORA ATION, PROCEED IN A ORK IN THAT LOCATION TION MANAGEMENT PLA	CORDING TO THE TRANSPO TWO (2) WEEKS PRIOR ARY BARRIER IS INSTALL A CONTINUOUS MANNER TO ON UNLESS OTHERWISE ST ANS OR AS DIRECTED BY	RTATION TO BEGINNING WORK ED COMPLETE THE ATED IN THE THE ENGINEER.	
CE BARRIER DIRECTL' E	Y ON ANY SURFACE OTHER	THAN ASPHALT	
RARY BARRIER IS IN IED BEHIND THE TEMPO INTHS, REMOVE / RESE UNLESS OTHERWISE S IPORARY BARRIER IS I ER.	STALLED AT ANY LOCATION DRARY BARRIER FOR A PEN ET TEMPORARY BARRIER A STATED IN THE TRANSPOR PROTECTING A HAZARD, O	N AND NO WORK RIOD LONGER THAN T NO COST TO THE TATION MANAGEMENT R AS DIRECTED BY	
MPORARY BARRIER WI AM SIDE OF TRAFFIC OW BEGINNING WITH	TH THE TRAFFIC FLOW BE . REMOVE TEMPORARY BAR THE DOWNSTREAM SIDE OF	GINNING WITH RIER AGAINST THE TRAFFIC.	
ID SPACE DRUMS NO GE I) TO CLOSE OR KEEP TEMPORARY BARRIER ( S REMOVED.	REATER THAN TWICE THE THE SECTION OF THE RO, CAN BE PLACED OR AFTER	POSTED SPEED ADWAY CLOSED THE TEMPORARY	
IE APPROACH END OF M DURING THE INSTALLA RUCK MOUNTED ATTENU	MOVABLE/PORTABLE CONCRU ATION AND REMOVAL OF TU JATOR (MAXIMUM 72 HOUR	ETE BARRIER AT HE BARRIER BY S) OR A TEMPORARY	
E APPROACH END OF M RAFFIC AT ALL TIMES CH END OF MOVABLE/H IING TRAFFIC AS FOLH 05)	MOVABLE/PORTABLE CONCRI 3 BY A TEMPORARY CRASH PORTABLE CONCRETE BARR LOWS OR AS SHOWN IN TH	ETE BARRIER FROM CUSHION UNLESS IER IS OFFSET E PLANS: (SEE	
ED LIMIT	MINIMUM OFFSET 15 FT 20 FT 25 FT		
HIGHER	30 FT		
NGS AND MARKERS			
Y DAMAGED PAVEMENT OPERATION.	MARKINGS AND MARKERS	BY THE END OF	



TRANSPORTATION MANAGEMENT PLAN

MANAGEMENT STRATEGIES AND **GENERAL NOTES** 



state proj. no.	STATE PROJECT REPERENCE NO. 7B.107914.9 P. A. PROJ. NO.	SHEET TOT AL SHEETS
	NAD 83/2011	
<b>~</b> .		
GAUGE ROAD	FOR CLEARIN GRUBBING PH CONSTRUC	NG AND HASE OF TION.
	BEEN DESIGI SENSITIVE WA STANDAR	NED TO TERSHED ≀DS.
Standard Drawings		

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

# EROSION & SEDIMENT CONTROL LEGEND

<u>Std. #</u>	Description
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1622.01	Temporary Berms and Slope Drair
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin
1630.05	Temporary Diversion
1630.06	Special Stilling Basin
1630.07	Skimmer Basin
1630.08	Tiered Skimmer Basin
1630.09	Earthen Dam with Skimmer
	Infiltration Basin
1632.01	Rock Inlet Sediment Trap: Type A
1632.02	Туре В
1632.03	Туре С

## DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



<u>Std. #</u>	<b>Description</b>
1633.01	Temporary Rock Silt C
1633.02	Temporary Rock Silt C
1633.03	Temporary Rock Silt C Excelsior Matting and I
1634.01	Temporary Rock Sedin
1634.02	Temporary Rock Sedin
1635.01	Rock Pipe Inlet Sedime
1635.02	Rock Pipe Inlet Sedime
1636.01	Excelsior Wattle Check
1636.01	Excelsior Wattle Checl
1636.01	Coir Fiber Wattle Chec
1636.01	Coir Fiber Wattle Chec
1636.02	Silt Fence Excelsior W
	Silt Fence Coir Fiber V
1636.03	Excelsior Wattle Barrie
1636.03	Coir Fiber Wattle Barri

PROJECT REFERENC	PROJECT REFERENCE NO.		
7B.107914.9		EC-2	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

<u>Symbol</u>

# **GEND**Check Type A

Check Type B

- Check Type A with
- iment Dam Type A
- iment Dam Type B
- nent Trap Type A 🛛 🗛 💭
- nent Trap Type B 🛛 🛛 🖁 💭
- ck
- ck with Flocculant
- eck
- eck with Flocculant
- Vattle Break
- Wattle Break

er — EW—EW—EW—

ier — CFW—CFW—CFW—







	PROJECT REFERENCE NO	).	SHEET NO.	
	7B.107914.9		EC-2A	
Γ	R/W SHEET NO.			
	ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NOTES: 1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES: 1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

## SITE DESCRIPTION

PERIMETER DIKES, SWALES, DITCHES AND

HIGH QUALITY WATER (HQW) ZONES

SLOPES STEEPER THAN 3:

SLOPES 3:1 TO 4:1

٠

ALL OTHER AREAS WITH SLOPES FLATTER

## DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

# SOIL STABILIZATION TIMEFRAMES

	STABILIZATION TIME	T /
SLOPES	7 DAYS	NONE
	7 DAYS	NONE
	7 DAYS	IF SLOPE NOT STE
		7 DAYS LENGTH
	IA DAIS	7 DAYS PERIMETE
R THAN 4:I	14 DAYS	7 DAYS PERIMETE

PROJECT REFERENCE NO	D. SHEET NO.
7B.107914.9	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## IMEFRAME EXCEPTIONS

ES ARE IO' OR LESS IN LENGTH AND ARE EEPER THAN 2:1, 14 DAYS ARE ALLOWED.

FOR SLOPES GREATER THAN 50' IN WITH SLOPES STEEPER THAN 4:1.

FOR PERIMETER DIKES, SWALES, DITCHES ER SLOPES, AND HQW ZONES

FOR PERIMETER DIKES, SWALES, DITCHES ER SLOPES, AND HQW ZONES



# CULVERT CONSTRUCTION SEQUENCE STA. 16+13 -L1-

- 1. UTILITIZE SPECIAL STILLING BASIN(S) DURING PIPE INSTALLATION AS NEEDED.
- 3. DEWATER WORK AREA(S) BY SPECAIL STILLING BASIN(S) AS NEEDED.
- 4. INSTALL PROPOSED 72" WELDED STEEL PIPE BY TRENCHLESS INSTALLATION WHILE KEEPING THE FLOW IN THE EXISTING 84" CMP.
- 5. INSTALL UPSTREAM AND DOWNSTREAM CLASS II ROCK PLATING AND HEADWALL.
- 6. REMOVE IMPERVIOUS DIKE A, IMPERVIOUS DIKE B, TEMPORARY 18" PIPE AND PUMP AROUND OPERATION.
- 7. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
- 8. COMPLETE CONSTRUCTION.



2. INSTALL IMPERVIOUS DIKE A, IMPERVIOUS DIKE B, TEMPORARY 18" PIPE AND PUMP AROUND OPERATION AS SHOWN ON PLAN.

