

### STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR J.R. "JOEY" HOPKINS Secretary

May 13, 2024

#### Addendum No. 1

RE: Contract # C204411 WBS # 14SP.20441.1, 14SP.20441.2 STATE FUNDED Haywood County BRIDGE #430175 AND BRIDGE #430174 OVER BIG CREEK ON SR-1332 (WATERVILLE ROAD)

#### May 28, 2024 Letting

To Whom It May Concern:

Reference is made to the plans and proposal furnished to you on this project.

The following revisions have been made to the Transportation Management plans.

Sheet No.	Revision
TMP-1B (14SP.20441.1)	General Note A was revised
TMP-1B (14SP.20441.2)	General Note A was revised

Please void the above listed Sheets in your Plans and staple the revised Sheets thereto.

The following revisions have been made to the Structure plans.

Sheet No.	Revision
S1-7 and S1-12	The dimension to the threaded inserts on the "Interior Slab Sidewalk Section Type II" were revised from 4" to 6"
S1-9 and S1-14	The dimensions to the threaded inserts were revised from 4" to 6" in the plan view
S1-11 and S1-16	A note for optional "Sleeve Inserts" was added to the notes

Please void the above listed Sheets in your Plans and staple the revised Sheets thereto.

*Telephone:* (919) 707-6900 *Fax:* (919) 250-4127 *Customer Service:* 1-877-368-4968

Website: www.ncdot.gov

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 05-13-2024"
G-2	The Project Special Provision entitled <u>INTERMEDIATE</u> <u>CONTRACT TIME NUMBER 2 AND LIQUIDATED</u> <u>DAMAGES</u> has been revised

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by: Konald E. Davenport, Jr. - 52C46046381F443...

Ronald E. Davenport, Jr., PE State Contract Officer

RED/jjr Attachments

cc: Mr. Wiley W. Jones III, PE Mr. Wanda H. Payne, PE Mr. Ken Kennedy, PE Mr. Malcolm Bell Mr. Forrest Dungan, PE Ms. Jaci Kincaid Mr. Jon Weathersbee, PE Project File (2)

#### STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, N.C.

### **PROPOSAL**

### **INCLUDES ADDENDUM No.1 DATED 05-13-2024**

DATE AND TIME OF BID OPENING: May 28, 2024 AT 02:00 PM

CONTRACT ID C204411

WBS 14SP.20441.1, 14SP.20441.2

FEDERAL-AID NO.	STATE FUNDED
COUNTY	HAYWOOD
T.I.P NO.	
MILES	0.175
ROUTE NO.	SR-1332
LOCATION	BRIDGE #430175 AND BRIDGE #430174 OVER BIG CREEK ON SR-1332 (WATERVILLE ROAD).

TYPE OF WORK GRADING, DRAINAGE, PAVING, AND STRUCTURES.

#### NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

#### THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

C204411 14SP.20441.1, etc.

#### **G-2**

#### **INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:**

(2-20-07) (Rev. 10-15-13)

108

SP1 G14 E

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for road closures and restoring traffic to the existing traffic pattern. The Contractor shall not close **SR 1332 (Waterville Road)** during the following time restrictions:

#### DAY AND TIME RESTRICTIONS

#### Monday thru Sunday, 4:00 pm to 9:00 am (the following morning)

The maximum allowable time for any operation other than blasting operations, is thirty (30) minutes for SR 1332. The Contractor shall reopen the travel lanes to traffic until any resulting traffic queue is depleted.

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the road closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the road closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **One Hundred Twenty-Five Dollars (\$ 125.00)** per fifteen (15) minute time period.

#### INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES: (2-20-07) (Rev. 10-15-13) 108 SP1 G14 E

The Contractor shall complete the required work of installing, maintaining and removing the traffic control devices for road closures and restoring traffic to the existing traffic pattern. The Contractor shall not close **SR 1332 (Waterville Road)** during the following time restrictions:

#### DAY AND TIME RESTRICTIONS

#### Monday thru Sunday, 4:00 pm to 9:00 am (the following morning)

The maximum allowable time for **blasting operations** is **forty-five (45)** minutes for **SR 1332**. The Contractor shall reopen the travel lanes to traffic until any resulting traffic queue is depleted.

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for the road closures according to the time restrictions stated herein.

	DRAWINGS, STANDAR TO MEET FIELD CON OVERLAPPING OF DE SUPPLEMENTING, CO	D DETAILS, DITIONS OR VICES. MO	AND ROADWAY DETA RESULT IN DUPLICA DIFICATION MAY INC	
		PROJECT EX	CEPT WHEN OTHERWIS	ES FOR THE DURATION SE NOTED IN THE PLAN
TIME	E RESTRICTIONS			
A)	DO NOT STOP TRAFFI	C AS FOLLO	WS:	
	ROAD NAME		DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
	SR 1332 WATERVILLE RD	MON-SUN MON-SUN (THE FOLI	9 A.M. TO 4 P.M 4 P.M. TO 9 A.M LOWING MORNING)	
		(OPEN-CUT	TIE-INS, PM PLACH), RETAINING WALL	EMENT, DRAINAGE CONSTRUCTION, AND
	SR 1332 WATERVILLE RD	MON-SUN	9 A.M. TO 4 P.M	
			4 P.M. TO 9 A.M LOWING MORNING)	ROCK BLASTING DO NOT STOP
LAN	E AND SHOULDER CLOS		,	
B)	PERFORMED BEHIND	THE LANE C		EN WORK IS NOT BEING LANE CLOSURE IS NO
C)	OPEN TRAVEL LANE, STANDARD DRAWING	CLOSE THE	NEAREST OPEN SHOU	WITHIN 15 FT OF AN JLDER USING ROADWAY AREA IS PROTECTED E STALLED.
D)	OPEN TRAVEL LANE,	DIVIDED FA CLOSE THE NO. 1101.02	CILITY AND WITHIN NEAREST OPEN TRAY	
E)	OF AN UNDIVIDED O THE TRAFFIC CONTR BY THE ENGINEER.	R DIVIDED   OL PLANS,   CONDUCT TI	FACILITY, CLOSE <sup>-</sup> ROADWAY STANDARD I	WITHIN A LANE OF TRA THE LANE ACCORDING T DRAWINGS, OR AS DIRE LL PERSONNEL AND/OR NE.
F)		OR LOOP WI		OTH SIDES OF AN OPEN ATION UNLESS PROTECT
PAVE	EMENT EDGE DROP OFF	REQUIREME	NTS	
G)		ADJACENT	TO AN OPENED TRAVI	LEVATION OF EXISTING EL LANE THAT HAS AN
	BACKFILL DROP-OFF POSTED SPEED LIMI		EED 2 INCHES ON RO PH OR GREATER.	DADWAYS WITH
	BACKFILL DROP-OFF POSTED SPEED LIMI		EED 3 INCHES ON RO AN 45 MPH.	DADWAYS WITH
	BACKFILL WITH SUI ENGINEER, AT NO E		ACTED MATERIAL, AS THE DEPARTMENT.	S APPROVED BY THE

# GENERAL NOTES / LOCAL NOTES

BLE	H)	LANES OF TRAFFIC FOR NOMI	CE OF 2 INCHES IN ELEVATION BETWEEN INAL LIFTS OF 1.5 INCHES. INSTALL A IGNS (W8-11) 200' IN ADVANCE AND A M	DVANCE	TRAFFIC CONTROL DEV
HE		OF EVERY HALF MILE THROUG			ÍN WORK AREAS
	TRAF	FIC PATTERN ALTERATIONS			THAN 45 (MPH) GREATER THAN O
OF N	I)	NOTIFY THE ENGINEER THIRT TRAFFIC PATTERN ALTERATIO	TY (30) CALENDAR DAYS PRIOR TO ANY DN.		AND 3 FT OFF T SPECIFICATIONS 1135 (CONES) A
	SIG	IING			0) PLACE TYPE III ATTACHED, OF S
	J)		E WARNING SIGNS WHEN WORK IS WITHIN RAVEL LANE AND NO MORE THAN THREE GINNING OF CONSTRUCTION.		PAVEMENT MARKINGS
	K)		NING IS IN PLACE PRIOR TO ALTERING A	NY	P) INSTALL TEMPOR ON INTERIM LAY
	Траг	FIC BARRIER			ROAD NAME
	L)	INSTALL TEMPORARY BARRIEF	R ACCORDING TO THE TRANSPORTATION		SR 1332 (WATERVILLE ROAD)
		WORK IN ANY LOCATION. ONC LOCATION PROCEED IN A CON	JM OF TWO (2) WEEKS PRIOR TO BEGINNI CE TEMPORARY BARRIER IS INSTALLED AT NTINUOUS MANNER TO COMPLETE THE PROP LESS OTHERWISE STATED IN THE TRANSPO IRECTED BY THE ENGINEER.	ANY OSED	Q) PLACE ONE APPL PLACE A SECOND INITIAL APPLIC ENGINEER.
		DO NOT PLACE BARRIER DIRE CONCRETE.	ECTLY ON ANY SURFACE OTHER THAN ASPH	ALT OR	R) TIE PROPOSED P LINES.
		PERFORMED BEHIND THE TEMF TWO (2) MONTHS, REMOVE/RE DEPARTMENT UNLESS OTHERWI	S INSTALLED AT ANY LOCATION AND NO W PORARY BARRIER FOR A PERIOD LONGER T ESET TEMPORARY BARRIER AT NO COST TO ISE STATED IN THE TRANSPORTATION MAN	HAN THE AGEMENT	S) REMOVE/REPLACE BY THE END OF
G		PLANS, TEMPORARY BARRIER THE ENGINEER.	IS PROTECTING A HAZZARD, OR AS DIRE	CTED BY	MISCELLANEOUS
		UPSTREAM SIDE OF TRAFFIC.	R WITH THE TRAFFIC FLOW BEGINNING WI REMOVE TEMPORARY BARRIER AGAINST T TH THE DOWNSTREAM SIDE OF TRAFFIC.		T) IN THE EVENT A TIE-IN AREA TO THE ENGINEER. AND BLACK ON O
BY		LIMIT (MPH) TO CLOSE OR K	NO GREATER THAN TWICE THE POSTED SPE KEEP THE SECTION OF THE ROADWAY CLOS KER CAN BE PLACED OR AFTER THE TEMPO	ED	200 FT RESPECT TO DELINEATE T
WAY BY AVEL	M)	ALL TIMES DURING THE INST	OF MOVABLE/PORTABLE CONCRETE BARRIE TALLATION AND REMOVAL OF THE BARRIER TTENUATOR (MAXIMUM 72 HOURS) OR A		
TO ECTED		ONCOMING TRAFFIC AT ALL T THE APPROACH END OF MOVAE	OF MOVABLE/PORTABLE CONCRETE BARRIE TIMES BY A TEMPORARY CRASH CUSHION U BLE/PORTABLE CONCRETE BARRIER IS OFF FOLLOWS OR AS SHOWN IN THE PLANS:	NLESS	PHASE I DEPICTS TRA TO ONE-LANE TWO-WAY
N TED		POSTED SPEED LIMIT 40 OR LESS	MINIMUM OFFSET 15 FT		MARKINGS WHILE THE THE FINAL LAYER OF
		45 - 50 55 60 MPH OR HIGHER	20 FT 25 FT 30 FT		PHASE 2 DEPICTS TRA ONE-LANE TWO-WAY PA
G	LO	CAL NOTES:			MARKINGS WHILE THE THE FINAL LAYER OF
	1)	EMERGENCY VEHICLE ACCESS	MUST BE MAINTAINED AT ALL TIMES.		CONSTRUCT THE NEW T
	2)	NOTIFY THE HAYWOOD COUNTY	Y SCHOOL BOARD (828-456-2421) AND DAYS BEFORE ANY LANE CLOSURES.	APPROVED:	DocuSigned by: F2F906A933CD405 2024
	3)	ALONG THE EDGE OF CREEK	ON AHEAD" (W21-81) WARNING SIGNS AND RIVER AS DIRECTED BY THE LE RIVER USERS OF WORK BEING DONE.		SEAL SEAL P
	4)	THE RIVER AND WILL HALT W	ND SUSPEND ALL OVERHEAD WORK		MENT NOT CONSIDERED FINAL S ALL SIGNATURES COMPLETED

	PROJ. REFERENCE NO.	SHEET NO.
	14SP.20441.2	TMP-1B
ITROL DEVICES ANE CLOSURES ARE NOT IN EFFECT SPACE CHAN	NELIZING DEVICES	
K AREAS NO GREATER THAN 40 FEET FOR POSTE 5 (MPH) AND NO GREATER THAN 80 FEET FOR PO R THAN OR EQUAL TO 45 (MPH) EXCEPT, 10 FT FT OFF THE EDGE OF AN OPEN TRAVELWAY. RE FICATIONS FOR ROADS AND STRUCTURES SECTION CONES) AND 1180 (SKINNY DRUMS) FOR ADDITI	D SPEED LIMITS L OSTED SPEED LIMI ON-CENTER IN RA FER TO STANDARD S 1130 (DRUMS),	ESS TS DII,
TYPE III BARRICADES, WITH "ROAD CLOSED" S ED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE		
RKINGS		
L TEMPORARY PAVEMENT MARKINGS ERIM LAYERS OF PAVEMENT AS FOLLOWS:		
IAME MARKING	_	MARKER
B32 PAINT LE ROAD)		NONE
ONE APPLICATION OF PAINT FOR TEMPORARY TR A SECOND APPLICATION OF PAINT SIX (6) MON AL APPLICATION AND EVERY SIX MONTHS AS DIR ER.	THS AFTER THE	
OPOSED PAVEMENT MARKING LINES TO EXISTING	PAVEMENT MARKIN	G
F/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT E END OF EACH DAY'S OPERATION.	MARKINGS	
DUS		
E EVENT A TIE-IN CANNOT BE MADE IN ONE DAY AREA TO AN APPROPRIATE ROADWAY ELEVATION GINEER. PLACE BLACK ON ORANGE "LOOSE GRA ACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3 RESPECTIVELY IN ADVANCE OF THE UNEVEN AR INEATE THE EDGE OF ROADWAY ALONG UNPAVED	AS DETERMINED B VEL" SIGNS (W8-7 ) 100 FT AND EAS. USE DRUMS	Y

### MANAGEMENT STRATEGIES

PICTS TRAFFIC TO BE MAINTAINED ON THE EXISTING ROAD, BUT REDUCED E TWO-WAY PATTERN USING TEMPORARY PORTABLE SIGNALS AND PAVEMENT HILE THE SB PROPOSED ROADWAY IS CONSTRUCTED, BUT NOT INCLUDING LAYER OF SURFACE COURSE.

PICTS TRAFFIC SHIFTED TO THE PARTIALLY CONSTRUCTED ROADWAY ON A WO-WAY PATTERN USING TEMPORARY PORTABLE SIGNALS AND PAVEMENT HILE THE NB PROPOSED ROADWAY IS CONSTRUCTED, BUT NOT INCLUDING LAYER OF SURFACE COURSE. A FLAGGING OPERATION WILL BE USED TO THE NEW TIE-INS.



TRANSPORTATION OPERATIONS PLAN

	DRAWINGS, STANDAR TO MEET FIELD CON OVERLAPPING OF DE	D DETAILS, DITIONS OR VICES. MOD	AND ROADWAY DETAI RESULT IN DUPLICA DIFICATION MAY INC	
		PROJECT EX	CEPT WHEN OTHERWIS	ES FOR THE DURATION SE NOTED IN THE PLAN
TIME	E RESTRICTIONS			
A)	DO NOT STOP TRAFFI	C AS FOLLOW	vs:	
	ROAD NAME		DAY AND TIME RESTRICTIONS	DURATION AND
	SR 1332 WATERVILLE RD	MON - SUN	9 A.M. TO 4 P.M.	≤30 MINUTES
	NOTE: OPERATIONS AND UTILITY TRAFFIC SHI	(OPEN-CUT)	•	EMENT, DRAINAGE CONSTRUCTION, AND
	SR 1332 WATERVILLE RD	MON-SUN	9 A.M. TO 4 P.M.	<45 MINUTES
			4 P.M. TO 9 A.M. _OWING MORNING)	ROCK BLASTING DO NOT STOP
LAN	E AND SHOULDER CLOS	·		
B)		THE LANE CL	OSURE OR WHEN A L	EN WORK IS NOT BEING ANE CLOSURE IS NO
C)	OPEN TRAVEL LANE,	CLOSE THE	NEAREST OPEN SHOU 4 UNLESS THE WORK	VITHIN 15 FT OF AN JLDER USING ROADWAY AREA IS PROTECTED E STALLED.
D)	-	DIVIDED FAG CLOSE THE NO. 1101.02	CILITY AND WITHIN NEAREST OPEN TRAV	
E)	OF AN UNDIVIDED O THE TRAFFIC CONTR	R DIVIDED F OL PLANS, F CONDUCT TH	FACILITY, CLOSE T ROADWAY STANDARD E HE WORK SO THAT AL	VITHIN A LANE OF TRA THE LANE ACCORDING T DRAWINGS, OR AS DIRE L PERSONNEL AND/OR
F)		OR LOOP WI		OTH SIDES OF AN OPEN ATION UNLESS PROTECT
PAVE	EMENT EDGE DROP OFF	REQUIREMEN	NTS	
G)		ADJACENT	TO AN OPENED TRAVE	EVATION OF EXISTING
	BACKFILL DROP-OFF POSTED SPEED LIMI			DADWAYS WITH
	BACKFILL DROP-OFF POSTED SPEED LIMI			DADWAYS WITH
	BACKFILL WITH SUI ENGINEER, AT NO E		•	S APPROVED BY THE

'2024 I0:56:I2 AM CP\haywoodI75\_TC\_tmp-IB.dgn 3r:cmriddle

# GENERAL NOTES / LOCAL NOTES

BLE	H)	DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE	TRAF	FIC CONT
		WARNING "UNEVEN LANES" SIGNS (W8-11) 200' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.	N)	WHEN LA IN WORA
HE	TRAI	FFIC PATTERN ALTERATIONS		THAN 45 GREATEF
	I)	NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY		AND 3 F SPECIFI
OF N	-,	TRAFFIC PATTERN ALTERATION.		1135 (0
	SIG	NING	0)	PLACE T
	J)	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.	PAVE	EMENT MAR
	K)	ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.	P)	INSTALL ON INTE
	TRA	FFIC BARRIER		ROAD NA
	L)	INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY	(V	SR 133 VATERVILL
		LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.	Q)	PLACE ( PLACE A INITIAL ENGINEE
		DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.	R)	TIE PRO LINES.
		ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT	S)	REMOVE, BY THE
G		PLANS, TEMPORARY BARRIER IS PROTECTING A HAZZARD, OR AS DIRECTED BY THE ENGINEER.		CELLANEOU
		INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.	Т)	IN THE TIE-IN THE ENC AND BLA 200 FT
ВҮ		INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.	U)	TO DELI CONTRAC A PEDES
NAY BY AVEL	M)	PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.		NEEDED. BETWEEN (SEE SF
TO ECTED		PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)	PHA	SE I DEP:
N TED		POSTED SPEED LIMIT MINIMUM OFFSET 40 OR LESS 15 FT	MARK	DNE-LANE (INGS WH: FINAL LA
		45 - 50 20 FT   55 25 FT   60 MPH OR HIGHER 30 FT	ONE -	SE 2 DEP: LANE TWO
G	LO	CAL NOTES:		KINGS WHI FINAL LA
	1)	EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.	CONS	STRUCT TH
	2)	NOTIFY THE HAYWOOD COUNTY SCHOOL BOARD (828-456-2421) AND RIVER CONTROL OFFICER 30 DAYS BEFORE ANY LANE CLOSURES.	D: DocuSigned I 	:D405
	3)	PLACE "BRIDGE CONSTRUCTION AHEAD" (W21-81) WARNING SIGNS ALONG THE EDGE OF CREEK AND RIVER AS DIRECTED BY THE ENGINEER TO ALERT POSSIBLE RIVER USERS OF WORK BEING DONE.	9/2024 SEAL	
	4)	THE CONTRACTOR SHALL BE AWARE OF RIVER USERS, USING THE RIVER AND WILL HALT WORK IF SOMEONE IS SEEN APPROACHING THE BRIDGE AND SUSPEND ALL OVERHEAD WORK		T CONSIDE

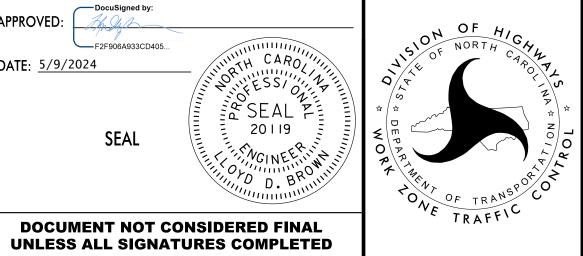
	PROJ. REFERENCE NO.	SHEET NO.
	14SP.20441.1	TMP-1B
ITROL DEVICES		
ANE CLOSURES ARE NOT IN EFFECT SPACE CHAN & AREAS NO GREATER THAN 40 FEET FOR POSTE 5 (MPH) AND NO GREATER THAN 80 FEET FOR P R THAN OR EQUAL TO 45 (MPH) EXCEPT, 10 FT FT OFF THE EDGE OF AN OPEN TRAVELWAY. RE FICATIONS FOR ROADS AND STRUCTURES SECTION (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITI	D SPEED LIMITS L OSTED SPEED LIMI ON-CENTER IN RA FER TO STANDARD S 1130 (DRUMS),	ESS TS DII,
TYPE III BARRICADES, WITH "ROAD CLOSED" S HED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE		
ARKINGS		
L TEMPORARY PAVEMENT MARKINGS FERIM LAYERS OF PAVEMENT AS FOLLOWS:		
AMEMARKING	_	MARKER
B32 PAINT LE ROAD)		NONE
ONE APPLICATION OF PAINT FOR TEMPORARY TR A SECOND APPLICATION OF PAINT SIX (6) MON AL APPLICATION AND EVERY SIX MONTHS AS DIR EER.	THS AFTER THE	
ROPOSED PAVEMENT MARKING LINES TO EXISTING	PAVEMENT MARKIN	IG
E/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT E END OF EACH DAY'S OPERATION.	MARKINGS	
DUS		
E EVENT A TIE-IN CANNOT BE MADE IN ONE DAY AREA TO AN APPROPRIATE ROADWAY ELEVATION GINEER. PLACE BLACK ON ORANGE "LOOSE GRA ACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3 RESPECTIVELY IN ADVANCE OF THE UNEVEN AR INEATE THE EDGE OF ROADWAY ALONG UNPAVED	AS DETERMINED E VEL" SIGNS (W8-7 ) 100 FT AND EAS. USE DRUMS	βY
ACTOR SHALL COORDINATE WITH THE ENGINEER A ESTRIAN TRANSPORT SERVICE THROUGH AND/OR A D. AT MINIMUM. THE PEDESTRIAN TRANSPORT SE	ROUND THE PROJEC	T AS

ESTRIAN TRANSPORT SERVICE THROUGH AND/OR AROUND THE PROJECT AS D. AT MINIMUM, THE PEDESTRIAN TRANSPORT SERVICE SHALL BE ON CALL EN THE HOURS OF 7:00 AM TO 8:00 PM MONDAY THROUGH SUNDAY. SPECIAL PROVISIONS)

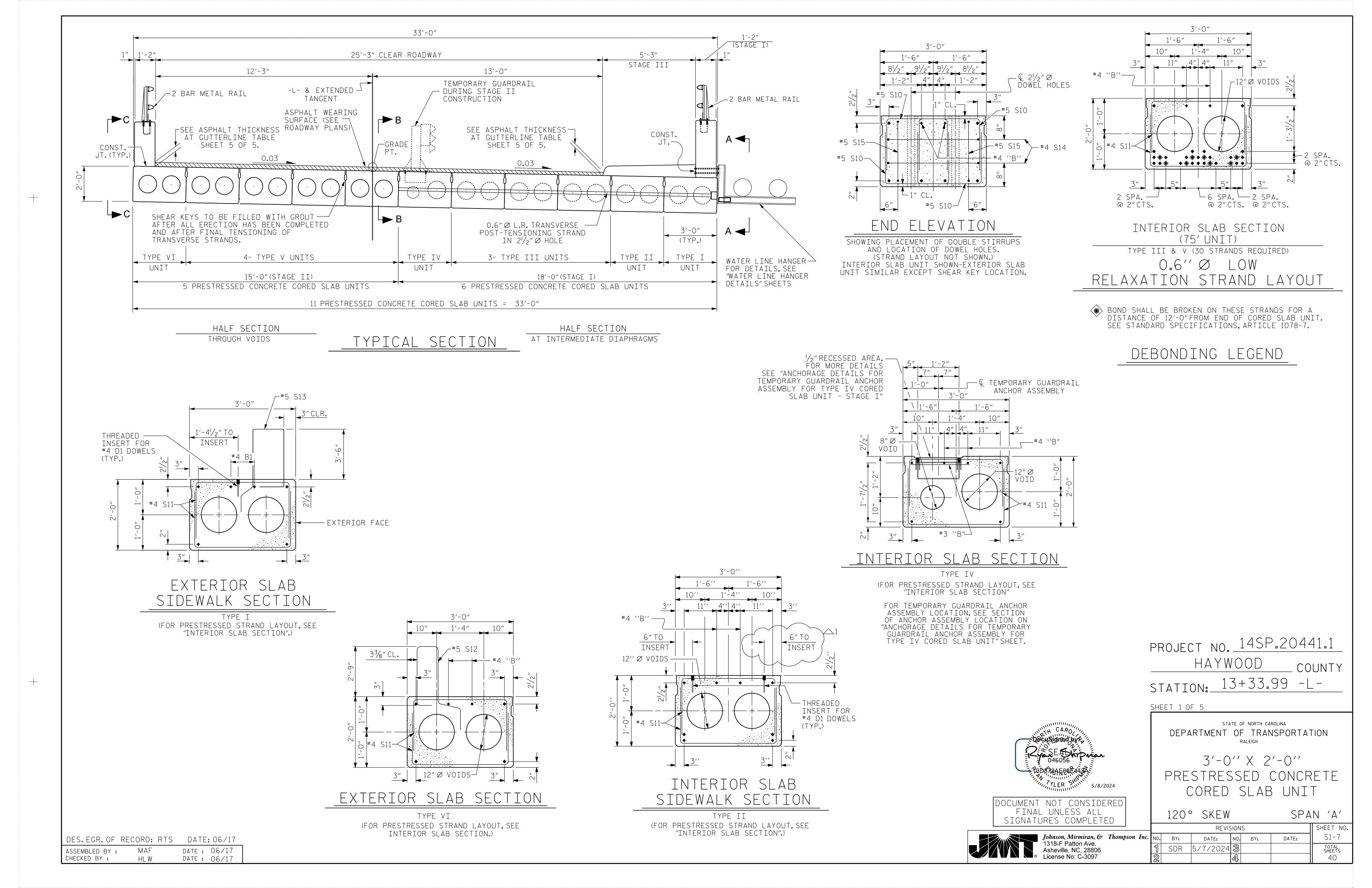
## MANAGEMENT STRATEGIES

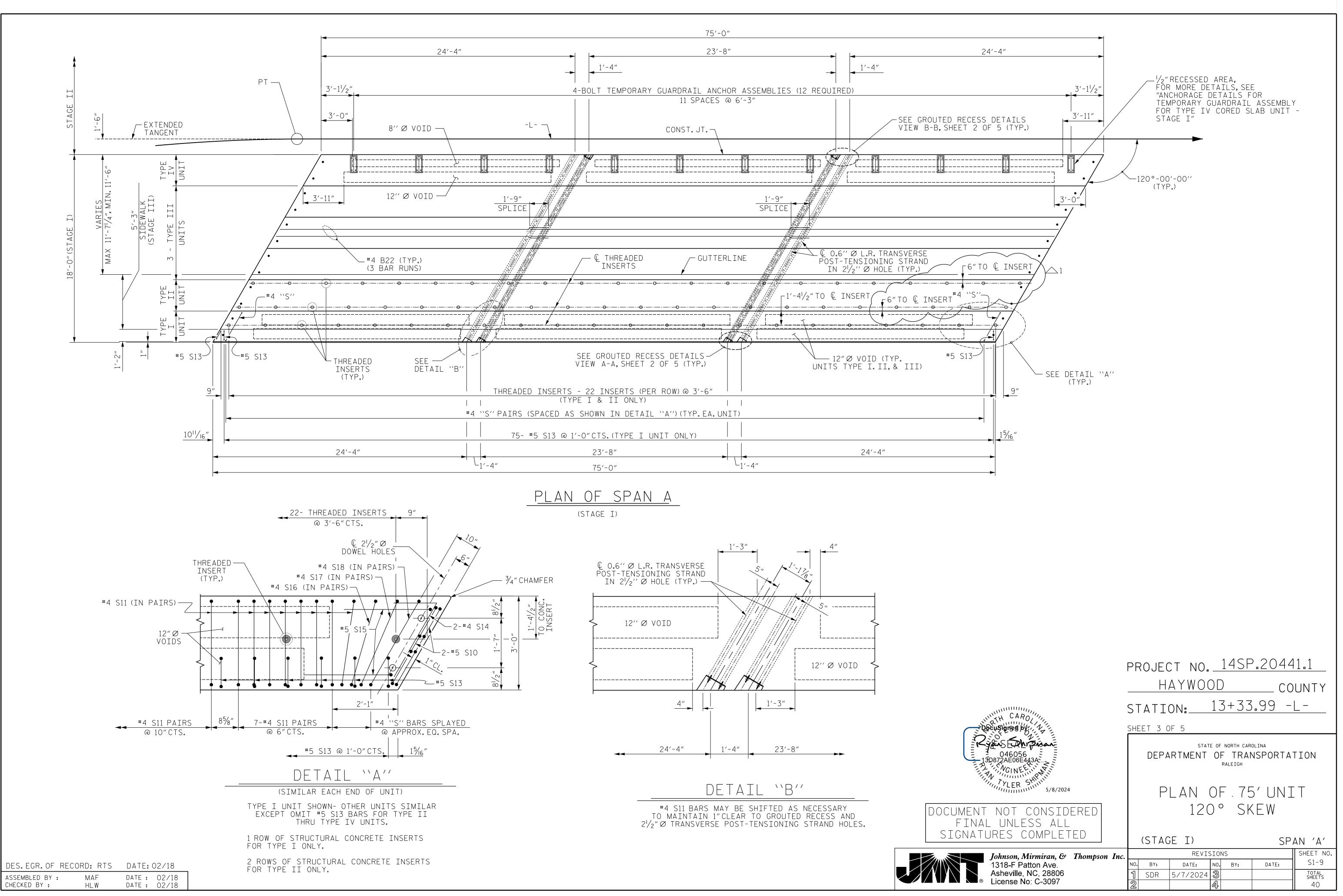
PICTS TRAFFIC TO BE MAINTAINED ON THE EXISTING ROAD, BUT REDUCED E TWO-WAY PATTERN USING TEMPORARY PORTABLE SIGNALS AND PAVEMENT HILE THE SB PROPOSED ROADWAY IS CONSTRUCTED, BUT NOT INCLUDING LAYER OF SURFACE COURSE.

PICTS TRAFFIC SHIFTED TO THE PARTIALLY CONSTRUCTED ROADWAY ON A WO-WAY PATTERN USING TEMPORARY PORTABLE SIGNALS AND PAVEMENT HILE THE NB PROPOSED ROADWAY IS CONSTRUCTED, BUT NOT INCLUDING LAYER OF SURFACE COURSE. A FLAGGING OPERATION WILL BE USED TO THE NEW TIE-INS.

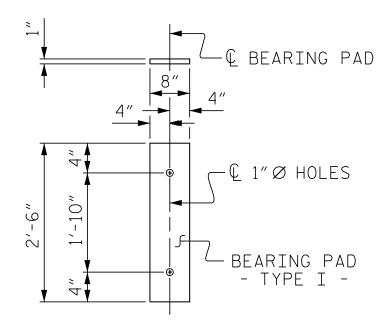


TRANSPORTATION OPERATIONS PLAN





+





### ELASTOMERIC BEARING DETAILS

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

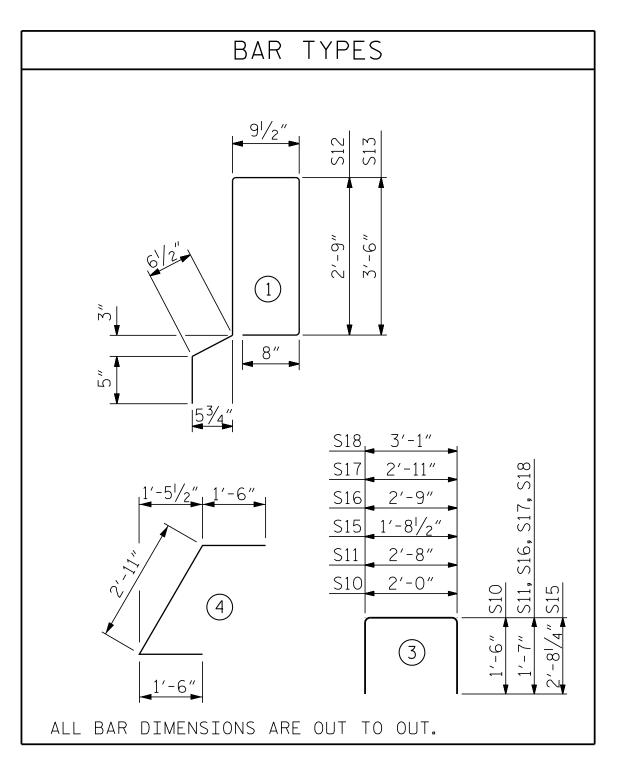
GUTTERLINE ASPHALT THICKNESS				
ASPHALT OVERLAY THICKNESS				
LEFT GUTTERLINE RIGHT GUTTERLINE				
€ BRG. @ END BENT #1	3 <sup>1</sup> / <sub>2</sub> " 3 <sup>11</sup> / <sub>16</sub> "			
MIDSPAN	2 <sup>1</sup> / <sub>16</sub> ″	2 <sup>3</sup> / <sub>16</sub> "		
€ BRG. @ BENT #1	31/2″	31/2″		

DES.EGR.OF REC	CORD: RTS	DATE:	02/18
ASSEMBLED BY : CHECKED BY :	MAF Hlw		02/18 02/18
DRAWN BY : MAA Checked by : Mkt	6/10 7/10	5/18	MAA/THC

—

+

CORED SLABS REQUIRED							
	(75′L	JNIT)					
UNIT	NUMBER	LENGTH	TOTAL LENGTH				
TYPE I	1	75′-0″	75′-0″				
TYPE II	1	75′-0″	75′-0″				
TYPE III	3	75′-0″	225'-0"				
TYPE IV	1	75′-0″	75′-0″				
TYPE V	4	75′-0″	300′-0″				
TYPE VI	1	75′-0″	75'-0"				
TOTAL	11		825′-0″				



FINAL CAMBER 17/16″ ↓ ★★ INCLUDES FUTURE WEARING SURFACE

75' CORED SLAB UNIT

CAMBER (SLAB ALONE IN PLACE

DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD\*\*

DEAD LOAD DEFLECTION AND CAMBER

	BILL OF MATERIAL FOR ONE								
	75' CORED SLAB UNIT								
				TYPE 1	I UNIT	TYPE II-	⊻ UNITS	type v	I UNIT
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B22	6	#4	STR	26'-1"	105	26'-1"	105	26'-1"	105
S10	8	#5	3	5'-0"	42	5'-0"	42	5'-0"	42
S11	182	#4	3	5′-10″	709	5′-10″	709	5'-10"	709
<b>★</b> S12	76	#5	1					7'-11"	628
<b>*</b> S13	76	#5	1	9′-5″	746				
S14	4	#4	4	5′-11″	16	5'-11"	16	5'-11"	16
S15	4	#5	3	7′-1″	30	7'-1"	30	7′-1″	30
S16	4	#4	3	5′-11″	16	5'-11"	16	5′-11″	16
S17	4	#4	3	6'-1"	16	6'-1"	16	6'-1"	16
S18	4	#4	3	6′-3″	17	6'-3"	17	6'-3"	17
REINFORCING STEEL LBS. 951						951		951	
	(Y COATE			_	740				600
	VFORCINC		LBS		746		40.7		628
9500	P.S.I.CO	NCRETE	CU.YDS	) <u>a</u>	12.7		12.7		13.8
0.6″Ø	L.R. STR	ands	Nc	) _	30		30		30

 $3'-0'' \times 2'-0''$ 

0.6″Ø L.R.

STRAND

1<sup>|</sup>/<sub>16</sub>″

2¹/₂″ ♦

CONCRETE RELEA	ASE STRENGTH
UNIT	PSI
75' UNITS	6000

GRADE 270 S	TRANDS
	0.6″ØL.R.
AREA (SQUARE INCHES)	0.217
ULTIMATE STRENGTH (LBS.PER STRAND)	58,600
APPLIED PRESTRESS (LBS.PER STRAND)	43,950

DOCL SI

 $1 \bigtriangleup$ 



### NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE  $2^{1\!/}_{2}{}'' \varnothing$  dowel holes at fixed ends of slab sections shall be filled with non-shrink grout.

THE BACKER RODS SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER.SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, AN INTERNAL HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. AT LEAST SIX WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN THE REQUIRED STRENGTH SHOWN IN THE "CONCRETE RELEASE STRENGTH" TABLE.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS.

GROOVED CONTRACTION JOINTS,  $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN PARAPET EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF PARAPET SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FLAME CUTTING OF THE TRANSVERSE POST-TENSIONING STRAND IS NOT ALLOWED.

MAINTAIN A SYMMETRIC TENSION FORCE BETWEEN EACH PAIR OF TRANSVERSE POST TENSIONING STRANDS IN THE DIAPHRAGM.

THE #4 S11 STIRRUPS MAY BE SHIFTED AS NECESSARY TO MAINTAIN 1" CLEAR TO THE GROUTED RECESS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE PERMITTED THREADED INSERTS ARE DETAILED AS AN OPTION FOR THE CONTRACTOR TO ATTACH FALSEWORK AND FORMWORK DURING CONSTRUCTION.

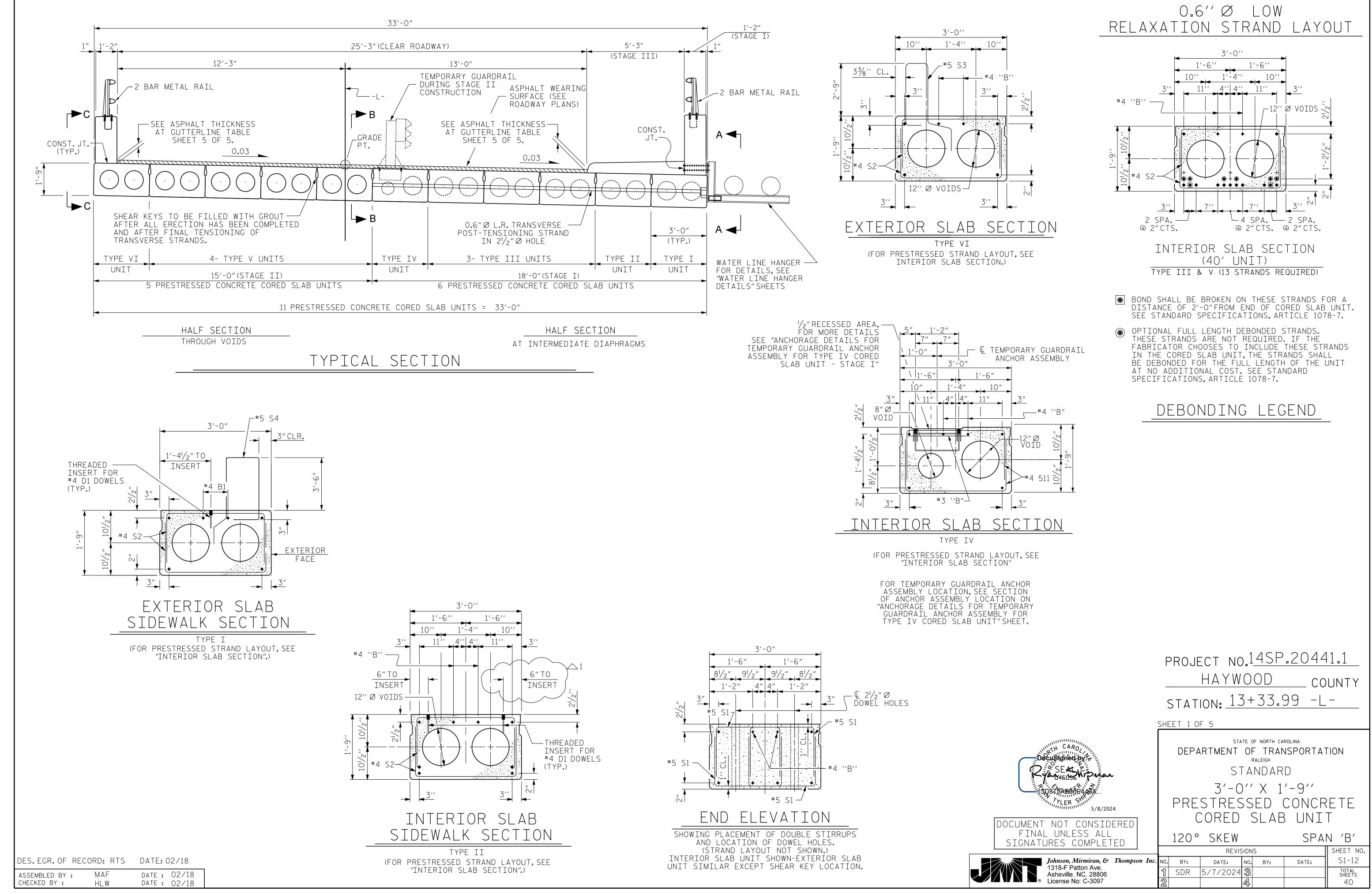
THE PERMITTED THREADED INSERTS IN THE EXTERIOR UNITS SHALL BE SIZED BY THE CONTRACTOR, SPACED AT 4'-O"CENTERS AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS. STAINLESS STEEL THREADED INSERTS MAY BE USED AS AN ALTERNATE.

THE PERMITTED THREADED INSERTS SHALL BE GROUTED BY THE CONTRACTOR IMMEDIATELY FOLLOWING REMOVAL OF THE FALSEWORK.

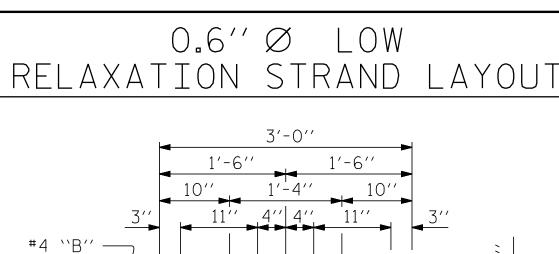
THE COST OF THE PERMITTED THREADED INSERTS SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST UNITS.

THE CONTRACTOR MAY USE SLEEVE INSERTS IN LIEU OF THREADED INSERTS FOR THE #4 DOWELS IN THE TYPE I AND TYPE 11 PRECAST CORED SLABS. IF USED, THESE INSERTS SHALL HAVE 4" INSIDE DIAMETER, SEALED TO PREVENT CONCRETE FILLING DURING FABRICATION, AND SHALL BE 4" LONG. THE #4 DOWELS IN THE SIDEWALK ARE TO BE INSERTED INTO THESE SLEEVES DURING STAGE III. THE DOWELS SHALL BE GROUTED IN USING NON-SHRINK EPOXY GROUT, THE COST OF THE INSERTS AND GROUT ARE TO BE INCIDENTAL TO THE COST OF THE CORED SLABS.

$\$		$\overline{}$
	PROJECT NO. <u>14SP</u> <u>HAYWOOD</u> STATION: <u>13+33.9</u> Sheet 5 of 5	COUNTY
Dorasionessity: Port State Provident 046056 1308724E06E443A VGINETING VG	STATE OF NORTH CAROLIN DEPARTMENT OF TRANSF RALEIGH STANDARD 3'-0"X 2'- PRESTRESSED CO CORED SLAB	PORTATION
FINAL UNLESS ALL GNATURES COMPLETED	120° SKEW	SPAN 'A'
	REVISIONS	SHEET NO.
Johnson, Mirmiran, & Thompson Inc. 1318-F Patton Ave	NO. BY: DATE: NO. BY:	DATE: \$1-11
Asheville, NC, 28806 Eicense No: C-3097	1 SDR 5/7/2024 3   2 4	TOTAL SHEETS 40
	STD.NO.24PCS3_33	_60&120S

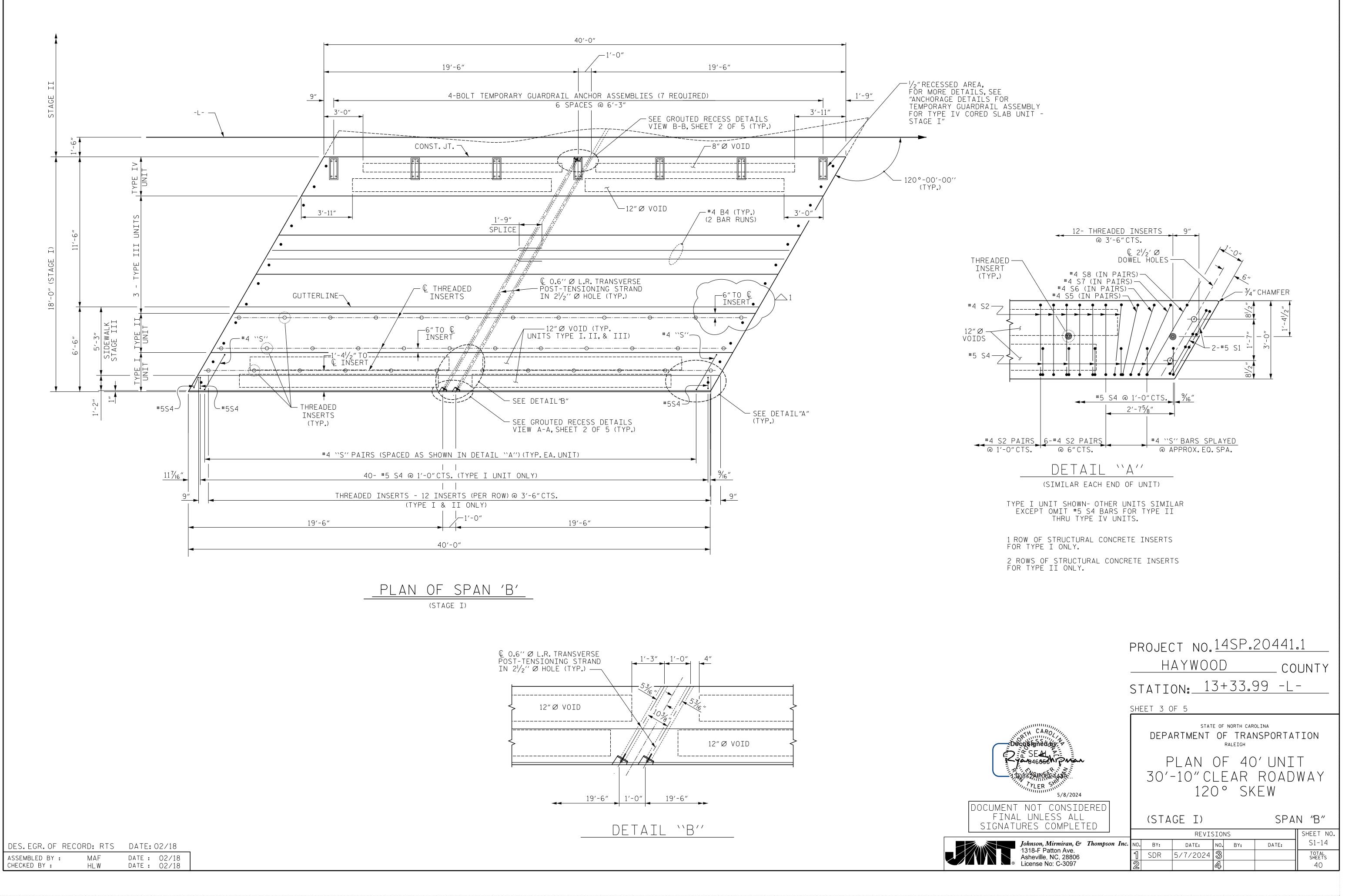


-









+

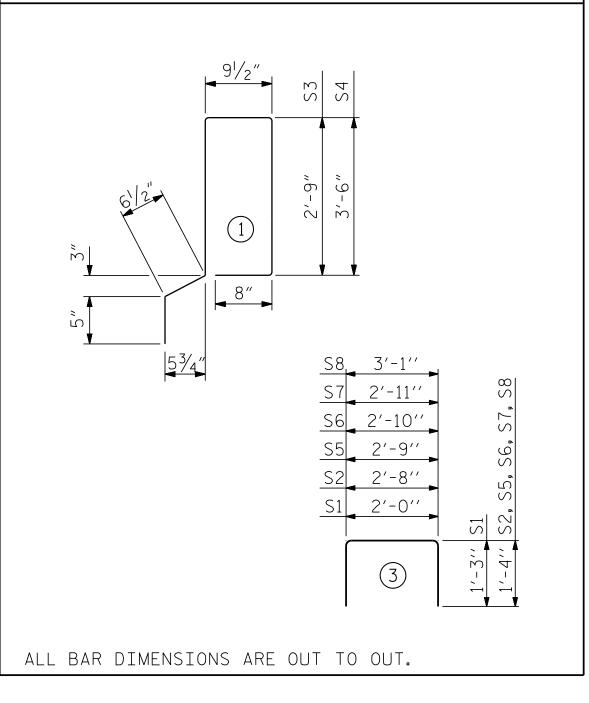
GUTTERLINE ASPHALT THICKNESS						
	ASPHALT OVERLAY THICKNESS					
	LEFT GUTTERLINE RIGHT GUTTERLINE					
€ BRG.@ BENT #1	31/2″	31/2″				
MIDSPAN	2 7/8 ″	27⁄8″				
€ BRG.@END BENT #2	31/2"	31/2"				

DES.EGR.OF RE	CORD: RTS	DATE:	02/18
ASSEMBLED BY : CHECKED BY :	MAF Hlw		02/18 02/18
DRAWN BY : DGE CHECKED BY : BCH		5/18	МАА/ТНС

+

### BAR TYPES

CORED SLABS REQUIRED							
UNIT			TOTAL LENGTH				
TYPE I	1	40'-0"	40'-0"				
TYPE II	1	40'-0"	40'-0"				
TYPE III	3	40'-0"	120'-0"				
TYPE IV	1	40'-0"	40'-0"				
TYPE V	4	40'-0"	160'-0"				
TYPE VI	1	40'-0"	40'-0"				
TOTAL	11 440'-0"						



DEAD LOAD DEFLECTION AN	ND CAMBER
	3'-0"× 1'-9"
40'CORED SLAB UNIT	0.6″ØL.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	<sup>1</sup> 3/ <sub>16</sub> ″
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	3∕16″ ↓
FINAL CAMBER	5∕8″ ♦

\*\* INCLUDES FUTURE WEARING SURFACE

	BILL OF MATERIAL FOR ONE 40' CORED SLAB UNIT								
	TYPE I UNIT   TYPE II- ▼ UNITS   TYPE VI UNIT								
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH	WEIGHT
B7(11)	4	#4	STR	20'-9"	55	20'-9"	55	20'-9"	55
S1	8	#5	3	4'-6"	38	4'-6"	38	4'-6"	38
S2	82	#4	3	5′-4″	292	5′-4″	292	5′-4″	292
* S3	41	#5	1					7'-11"	339
<b>∗</b> S4	41	#5	1	9′-5″	403				
S5	4	#4	3	5′-5″	14	5′-5″	14	5′-5″	14
S6	4	#4	3	5′-6″	15	5′-6″	15	5′-6″	15
S7	4	#4	3	5′-7″	15	5′-7″	15	5′-7″	15
S8	4	#4	3	5′-9″	15	5′-9″	15	5′-9″	15
REINFO	ORCING S	STEEL	LBS	<b>.</b>	444		444		444
	(Y COATE			_					
-	FORCINC		LBS		403				339
5000	P.S.I.CO	NCRETE	CU.YDS	) <u>a</u>	5.9		5.9		6.4
			K 1		1 7		1 7		1 7
0.6″Ø	L.R. STR	ands	Nc	) _	13		13		13

CONCRETE RELEA	ASE STRENGTH
UNIT	PSI
40' UNITS	4000

GRADE 270 STRANDS				
	0.6″ØL.R.			
AREA (SQUARE INCHES)	0.217			
ULTIMATE STRENGTH (LBS.PER STRAND)	58,600			
APPLIED PRESTRESS (LBS.PER STRAND)	43,950			

 $1 \bigtriangleup$ 

### NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE  $2^{1\!/}_{2}{}'' \varnothing$  dowel holes at fixed ends of slab sections shall be filled with non-shrink grout.

THE BACKER RODS SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER.SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, AN INTERNAL HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. AT LEAST SIX WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS.

GROOVED CONTRACTION JOINTS,  $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN PARAPET EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF PARAPET SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FLAME CUTTING OF THE TRANSVERSE POST-TENSIONING STRAND IS NOT ALLOWED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN THE REQUIRED STRENGTH SHOWN IN THE "CONCRETE RELEASE STRENGTH" TABLE.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE PERMITTED THREADED INSERTS ARE DETAILED AS AN OPTION FOR THE CONTRACTOR TO ATTACH FALSEWORK AND FORMWORK DURING CONSTRUCTION.

THE PERMITTED THREADED INSERTS IN THE EXTERIOR UNITS SHALL BE SIZED BY THE CONTRACTOR, SPACED AT 4'-O"CENTERS AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS. STAINLESS STEEL THREADED INSERTS MAY BE USED AS AN ALTERNATE.

THE PERMITTED THREADED INSERTS SHALL BE GROUTED BY THE CONTRACTOR IMMEDIATELY FOLLOWING REMOVAL OF THE FALSEWORK.

THE COST OF THE PERMITTED THREADED INSERTS SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST UNITS.

THE CONTRACTOR MAY USE SLEEVE INSERTS IN LIEU OF THREADED INSERTS FOR THE #4 DOWELS IN THE TYPE I AND TYPE II PRECAST CORED SLABS. IF USED, THESE INSERTS SHALL HAVE  $\frac{3}{4}$ "INSIDE DIAMETER, SEALED TO PREVENT CONCRETE FILLING DURING FABRICATION, AND SHALL BE 4" LONG.THE #4 DOWELS IN THE SIDEWALK ARE TO BE INSERTED INTO THESE SLEEVES DURING STAGE III. THE DOWELS SHALL BE GROUTED IN USING NON-SHRINK EPOXY GROUT.THE COST OF THE INSERTS AND GROUT ARE TO BE INCIDENTAL TO THE COST OF THE CORED SLABS.

	PROJECT NO. <u>145</u> HAYWOOD STATION: <u>13+33</u> SHEET 5 OF 5	COUNTY	
CUMENT NOT CONSIDERED FINAL UNLESS ALL	department of tran <sup>Raleigh</sup> STANDAR 3'-0'' X 1	STANDARD 3'-O'' X 1'-9'' TRESSED CONCRETE RED SLAB UNIT	
IGNATURES COMPLETED	REVISIONS	SHEET NO.	
Johnson, Mirmiran, & Thompson Inc. 1318-F Patton Ave. Asheville, NC, 28806 License No: C-3097	NO.     BY:     DATE:     NO.     BY:       1     SDR     5/7/2024     3     4       2     4     4     4	DATE: S1-16 TOTAL SHEETS 40	
STD.NO.21″P.CS3_33_120S			