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J.E. HUMMER, PE	_ ST
K.C. THORNEWELL JR, PE	_ EA
S.B. JENNINGS	_ PR





STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

HARNETT AND JOHNSTON **COUNTIES**







GEORGE M. KARAGEORGE, PE CAROLINE OWINGS, PE K. READ GENTRY BIRGIT MACKENZIE

PROJECT REFERENCE NO.	SHEET NO.
I - 5878 / I - 5883 / I - 5986B	TMP - 1
Documentary FESS/G George Kongeorge 5307138EF9D9446.SEAL 042065 WG/NES M. KAR	4/8/2021
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Michael E	Baker
INTERNAT	IONAL

SEE TMP-1A FOR INDEX OF SHEETS

PLAN PREPARED BY: MICHAEL BAKER INTERNATIONAL

TRAFFIC ENGINEER-NC OPERATIONS

TRAFFIC ENGINEER

TRAFFIC ENGINEER

TRAFFIC DESIGNER

Michael Baker

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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.

TITLE

862.03	STRUCTURE ANCHOR UNITS
901.50	ARROWS AND SHIELDS
903.20	WOOD SIGN POSTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHA
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROAD
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORA
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOL

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Michael Baker

WORK ZONE PERFORMANCE PAVEMENT MARKING LINES

	COLOR	LINE WIDTH	DESCRIPTION
	WHITE	24"	STOPBAR
	WHITE	24"	CROSSWALK LINE
	WHITE	6"	EDGELINE
	YELLOW	6"	EDGELINE
	WHITE	4"	MINISKIP 2FT-6FT
	WHITE	12"	MINISKIP 3FT-3FT
	WHITE	6"	MINISKIP 2FT-6FT
	WHITE	12"	MINISKIP 3FT-9FT
	YELLOW	4"	CENTER DOUBLE SOLID/SKIP
	WHITE	4"	EDGELINE
	YELLOW	4"	EDGELINE
	WHITE	4"	SKIP
	WHITE	4"	MINISKIP 3FT-9FT
	WHITE	4"	LANELINE
	YELLOW	4"	DOUBLE CENTER SOLID/SOLID
	WHITE	6"	SKIP
	WHITE	6"	MINISKIP 3FT-9FT
	WHITE	6"	LANELINE
	WHITE	8"	GORELINE
	YELLOW	8"	DIAGONAL
	WHITE	8"	CROSSWALK LINE
	WHITE	12"	GORELINE
	WHITE	12"	LANELINE
_			

NOTE: PAINT MAY BE USED FOR SHORT TERM OPERATIONS WHEN ALLOWED BY THE ENGINEER.

COLD APPLIED PLASTIC PAVEMENT MARKING LINES

COLOR	LINE WIDTH	DESCRIPTION
WHITE	4"	EDGELINE
YELLOW	4"	DOUBLE CENTER SOLID/SOLID

WORK ZONE PERFORMANCE PAVEMENT MARKING SYMBOLS & CHARACTERS

COLOR	DESCRIPTION
WHITE	LEFT TURN ARROW
WHITE	RIGHT TURN ARROW
WHITE	STRAIGHT ARROW
WHITE	RIGHT/STRAIGHT ARROW
WHITE	LEFT/RIGHT ARROW
WHITE	LEFT/RIGHT/STRAIGHT ARROW
WHITE	PAINT ALPHANUMERIC CHARACTER
WHITE	24" YIELD LINE TRIANGLE SYMBOL
WHITE	MERGE ARROW
WHITE	RAMP ARROW
WH/BL/RE	INTERSTATE SHIELD

LEGEND, ROADWAY STANDARDS AND TEMPORARY PAVEMENT MARKING LEGEND

/2/2021 \Traffic

		TIME RESTRICTIONS - REFER TO INTERMEDIATE CONTRACT TIMES	
•MAINTAIN THE EX	NE CLOSURE DAY AND TIME RESTRICTIONS		
ROAD NAME	DAY AND TIME RESTRICTIONS	TEMPORARY ROAD CLOSURE DAY AND TIME RESTRICTIONS	
I-95 INCLUDING	MONDAY THRU THURSDAY - 7:00 A.M. TO 7:00 P.M.		HAUL
RAMPS/LOOPS	AND FRIDAY THRU SUNDAY 7:00 A.M. TO 9:00 P.M.	 TEMPORARY ROAD CLOSURES ARE NOT ALLOWED EXCEPT AT THE SPECIFIC TIMES STATED IN THE PLANS, OR WHEN DIRECTED BY THE ENGINEER. 	•EXC TEM
WHERE THERE AR MAINTAIN THE EX	E THREE OR MORE LANES IN A DIRECTION OF TRAVEL ON I-95, (ISTING TRAFFIC PATTERN AND DO NOT CLOSE OR NARROW TWO LANES	CLOSURES WITH OFF-SITE DETOURS	INGF RES
OF TRAFFIC DUR	ING THE FOLLOWING TIMES:	DO NOT CLOSE ROADS AS FOLLOWS:	SING
	DAY AND TIME RESTRICTIONS	ROAD NAME DAY/TIME RESTRICTIONS	•I-95, RES
RAMPS/LOOPS	MONDAY THRU SUNDAY - 6:00 A.M. TO TI:00 P.M.	I-95 6:00 A.M. -11:00 P.M.	SIG
		DO NOT CLOSE ANY NC 50 RAMPS DURING THE NORTH CAROLINA STATE ANNUAL	
		SINGING CONVENTION HELD IN BENSON, NC BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE THE EVENT AND 9:00 P.M. THE DAY AFTER THE EVENT.	MULT
MAINTAIN A MINIM DURING THE FOL	UM OF TWO (2) THRU-TRAVEL LANES ON THE FOLLOWING ROADS		●I-95,
	DAY AND TIME RESTRICTIONS	CLOSURES WITHOUT AN OFF-SITE DETOUR (TRAFFIC STOPPAGES)	
NC 50	MONDAY THRU FRIDAY - 7:00 A.M. TO 9:00 A.M.	•DO NOT STOP TRAFFIC AS FOLLOWS:	●I-95 HAU
55 421	AND 4:00 P.M. TO 6:00 P.M.	I-95 AND I-95 RAMPS/LOOPS MONDAY THRU THURSDAY 5:00 A.M. TO 11:00 P.M.	AD
DO NOT CLOSE O	R NARROW A LANE OF TRAFFIC ON AFOREMENTIONED FACILITIES,	THE DURATION OF TRAFFIC STOPPAGES SHALL NOT EXCEED 30 MINUTES.	
DETAIN, AND/OR WEEKENDS, SPE HEAVY. AT MINIM FOLLOWING SCH	ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY CIAL EVENTS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY IUM, THESE REQUIREMENTS/RESTRICTIONS SHALL APPLY TO THE EDULES:	TRAFFIC STOPPAGES SHALL ONLY BE USED WHEN SPECIFIED IN THE PLANS OR WHEN ALLOWED BY THE ENGINEER.	
ROAD NAME		OPERATIONS THAT ROAD CLOSURES WILL BE ALLOWED:	
ALL ROADS		BRIDGE DEMOLITION	
1) FOR UNEXPE VOLUMES, A	ECTED OCCURRENCES THAT CREATE UNUSUALLY HIGH TRAFFIC S DIRECTED BY THE ENGINEER.	GIRDER, OVERHANG, AND FALSEWORK INSTALLATION AND/OR REMOVAL	
2) FOR NEW YE P.M. JANUAR MONDAY THE	AR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31ST TO 9:00 Y 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR EN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.	 INSTALLATION OF OVERHEAD SIGN ASSEMBLIES AND/OR WORK ON EXISTING OVERHEAD SIGN ASSEMBLIES OVER TRAVEL LANES. OTHER OPERATIONS DIRECTED BY THE ENGINEER. 	
3) FOR EASTER	R, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 9:00 P.M.		
4) FOR MEMOR TUESDAY.	IAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 9:00 P.M.		
5) FOR INDEPEI INDEPENDEN INDEPENDEN BETWEEN TH 9:00 P.M. THE	NDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE NCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF NCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN HE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND E TUESDAY AFTER INDEPENDENCE DAY.		
6) FOR LABOR I	DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 9:00 P.M.		
7) FOR THANKS P.M. MONDA	GIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 9:00		
B) FOR CHRISTI WEEK OF CH OF CHRISTM	MAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE IRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK AS DAY.		
9) FOR TOWN C DAY BEFORE DAYS EVENT COORDINATE	OF BENSON MULE DAYS EVENTS, BETWEEN THE HOURS OF 7:00 A.M. THE THE EVENT AND 9:00 P.M. THE DAY AFTER THE EVENT. THE 2020 MULE IS SCHEDULED FOR SEPTEMBER 24-27, THURSDAY-SUNDAY (TENTATIVE). E WITH THE TOWN OF BENSON AND THE ENGINEER FOR EXACT TIMES		

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.

DAY AND TIME RESTRICTIONS

IG HAULING OPERATIONS THAT ARE CONDUCTED ENTIRELY BEHIND A RY TRAFFIC BARRIER OR GUARDRAIL, HAULING SHALL NOT BE ALLOWED AND EGRESS FROM ANY OPEN TRAVEL LANE DURING THE FOLLOWING TIME IONS:

IICLE HAULING

IDING ALL RAMPS AND LOOPS, MONDAY THROUGH THURSDAY NO IONS ON SINGLE VEHICLE HAULING, USE ACTUATED ADVANCE WARNING ND DEVICES.

IDING ALL RAMPS AND LOOPS, DO NOT CONDUCT SINGLE VEHICLE ON FRIDAY, SATURDAY AND SUNDAY 10:00 A.M. TO 4:00 P.M., USE D ADVANCE WARNING SIGNING AND DEVICES

CLE HAULING

JDING ALL RAMPS AND LOOPS, DO NOT CONDUCT MULTI- VEHICLE MONDAY THROUGH THURSDAY NOON TO 6:00 P.M., USE ACTUATED ADVANCE SIGNING AND DEVICES

IDING ALL RAMPS AND LOOPS, DO NOT CONDUCT MULTI- VEHICLE FRIDAY, SATURDAY AND SUNDAY 10:00 A.M. TO 7:00 P.M., USE ACTUATED WARNING SIGNING AND DEVICES

GENERAL NOTES

LANE AND SHOULDER CLOSURE REQUIREMENTS

- ON TWO-LANE, TWO-WAY FACILITIES, DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE IN ANY ONE DIRECTION ON ANY ROADWAY WITHIN THE PROJECT LIMITS OR IN CONJUNCTION WITH THIS PROJECT, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- •ON MULTI-LANE FACILITIES, DO NOT INSTALL MORE THAN TWO (2) MILES OF LANE CLOSURE IN ANY ONE DIRECTION, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- •SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON ANY ROAD WITHIN THE PROJECT LIMITS SHALL BE INSTALLED AS FOLLOWS:
 - FOR TWO SIMULTANEOUS LANE CLOSURES, A MINIMUM OF TWO (2) MILES SHALL BE PROVIDED BETWEEN LANE CLOSURES.
 - FOR THREE SIMULTANEOUS LANE CLOSURES OR MORE, A MINIMUM OF THREE (3) MILES SHALL BE PROVIDED BETWEEN LANE CLOSURES.
- •THE DISTANCE BETWEEN LANE CLOSURES NOTED ABOVE SHALL BE MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.
- •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.
- •WHEN BARRIER IS PLACED ON THE ROADWAY SHOULDER. INSTALL SHOULDER CLOSURE SIGNS AND DEVICES IN ADVANCE OF THE BARRIER USING NCDOT ROADWAY STANDARD DRAWINGS.
- •WHEN PERSONNEL AND / OR EQUIPMENT ARE WORKING WITHIN 15 FEET OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING NCDOT ROADWAY STANDARD DRAWINGS, UNLESS THE WORK AREA IS PROTECTED BY AN APPROVED TEMPORARY TRAFFIC BARRIER OR GUARDRAIL
- WHEN PERSONNEL AND / OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN FIVE FEET OF AN OPEN TRAVEL LANE, AT A MINIMUM, CLOSE THE NEAREST OPEN TRAVEL LANE USING NCDOT ROADWAY STANDARD DRAWINGS, UNLESS THE WORK AREA IS PROTECTED BY AN APPROVED TEMPORARY TRAFFIC BARRIER OR GUARDRAIL
- •WHEN PERSONNEL AND / OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN TEN FEET OF AN OPEN TRAVEL LANE, AT A MINIMUM, CLOSE THE NEAREST OPEN TRAVEL LANE USING NCDOT ROADWAY STANDARD DRAWINGS, UNLESS THE WORK AREA IS PROTECTED BY AN APPROVED TEMPORARY TRAFFIC BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND / OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL AT MINIMUM, CLOSE THE LANE USING THE NCDOT ROADWAY STANDARD DRAWINGS. CONDUCT THE WORK SO THAT ALL PERSONNEL AND / OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- •DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FEET OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.
- WHEN BARRIER IS PLACED ON THE ROADWAY SHOULDER, INSTALL SHOULDER CLOSURE SIGNS AND DEVICES IN ADVANCE OF THE BARRIÉR USING NCDOT ROADWAY STANDARD DRAWINGS.
- •USE CONNECTED LANE CLOSURE DEVICES (SEE PROJECT SPECIAL PROVISIONS)

LANE CLOSURE NOTICES (LCN)

- •THE CONTRACTOR SHALL ISSUE A LANE CLOSURE NOTICE (LCN) TO NCDOT AND AFFECTED GOVERNMENT ENTITIES A MINIMUM OF THIRTY (30) CALENDAR DAYS PRIOR TO THE PUBLICATION OF ANY NOTICES OR PLACEMENT OF ANY TRAFFIC CONTROL DEVICES ASSOCIATED WITH LANE CLOSURES, DETOUR ROUTING OR OTHER CHANGE IN TRAFFIC CONTROL REQUIRING LANE CLOSURES. THE CONTRACTOR WILL BE ALLOWED TO ISSUE A SINGLE LCN FOR MULTIPLE / CONSECUTIVE LANE CLOSURES THAT OCCUR IN THE SAME LOCATION.
- •FOR A LCN UTILIZING A NON-NCDOT CONTROLLED FACILITY, THE CONTRACTOR SHALL SECURE CONCURRENCE, IN WRITING, FROM THE CONTROLLING GOVERNMENT ENTITY. A LCN SHALL CONTAIN THE ESTIMATED DATE, TIME, DURATION AND LOCATION OF THE PROPOSED WORK. THE CONTRACTOR SHALL KEEP NCDOT INFORMED OF ANY AND ALL CHANGES OR CANCELLATIONS OF PROPOSED LANE CLOSURES PRIOR TO THE DATE OF THEIR IMPLEMENTATION.
- •IF AN EMERGENCY CONDITION SHOULD OCCUR, A LCN SHALL BE PROVIDED TO NCDOT WITHIN TWO (2) DAYS AFTER THE EVENT. FOR NON-NCDOT CONTROLLED FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTROLLING GOVERNMENT ENTITY.

ROAD CLOSURE REQUIREMENTS

- •FURNISH AND INSTALL ALL TEMPORARY SIGNING AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED FOR TEMPORARY ROAD CLOSURES, INCLUDING TEMPORARY ROUTE SIGNS REQUIRED FOR OFF-SITE DETOURS.
- •COVER OR REMOVE ALL TEMPORARY ROAD CLOSURE SIGNS AND DEVICES WHEN A TEMPORARY ROAD CLOSURE IS NOT IN OPERATION. WHEN A DETOUR IS NOT IN OPERATION, COVER OR REMOVE ALL TEMPORARY DETOUR SIGNS.
- •WHEN CLOSING A ROADWAY, INSTALL/UNCOVER DETOUR AND ROAD CLOSURE SIGNS FIRST, AND INSTALL CLOSURE BARRICADES LAST. WHEN RE-OPENING A ROADWAY, REMOVE CLOSURE BARRICADES FIRST, THEN REMOVE/COVER SIGNS.
- •DO NOT SIMULTANEOUSLY CLOSE ADJACENT INTERCHANGES UNLESS ALLOWED IN THE PLANS, OR DIRECTED BY THE ENGINEER.

TRAFFIC PATTERN ALTERATIONS

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

ROAD CLOSURE NOTICE (RCN)

- •PROPOSED ROAD CLOSURES ON ANY ROAD SHALL BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATION IN THE TRANSPORTATION MANAGEMENT PLANS.
- •THE CONTRACTOR SHALL ISSUE A ROAD CLOSURE NOTICE (RCN) TO NCDOT AND AFFECTED GOVERNMENT ENTITIES A MINIMUM OF THIRTY (30) CALENDAR DAYS PRIOR TO THE PUBLICATION OF ANY NOTICES OR PLACEMENT OF ANY TRAFFIC CONTROL DEVICES ASSOCIATED WITH ROAD CLOSURES, DETOUR ROUTING OR OTHER CHANGE IN TRAFFIC CONTROL REQUIRING ROAD CLOSURES.
- •FOR A RCN UTILIZING A NON-NCDOT CONTROLLED FACILITY, THE CONTRACTOR SHALL SECURE CONCURRENCE IN WRITING FROM THE CONTROLLING GOVERNMENT ENTITY. A RCN SHALL CONTAIN THE ESTIMATED DATE, TIME, DURATION, AND LOCATION OF THE PROPOSED WORK. THE CONTRACTOR SHALL KEEP NCDOT AND ANY OTHER AFFECTED GOVERNMENT ENTITY INFORMED OF ANY AND ALL CHANGES OR CANCELLATIONS OF PROPOSED ROAD CLOSURES PRIOR TO THE DATE OF THEIR IMPLEMENTATION.
- IF AN EMERGENCY CONDITION SHOULD OCCUR, A RCN SHALL BE PROVIDED TO NCDOT WITHIN TWO (2) DAYS AFTER THE EVENT. FOR NON-NCDOT CONTROLLED FACILITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTROLLING GOVERNMENT ENTITY.

- OPERATIONS.
- ALLOWED.

GENERAL NOTES

BARRIERS AND POSITIVE PROTECTION

- •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 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.
- •BARRIER SHALL BE PLACED ON A PAVED SURFACE. UNLESS PERMITTED OTHERWISE BY THE MANUFACTURER. THE PAVED SURFACE SHALL EXTEND A MINIMUM OF TWO FEET BEHIND ALL UNANCHORED BARRIER. CLEARANCE BEHIND ANCHORED BARRIER IS NOT REQUIRED.

•DO NOT PLACE BARRIER ON A SLOPE STEEPER THAN 6:1.

- •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 PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER
- •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.
- 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.
- •PROTECT THE APPROACH END OF TEMPORARY 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.
- DO NOT PLACE TEMPORARY BARRIER ALONG ANY SHIFTING TAPER, INCLUDING BUT NOT LIMITED TO, EXISTING, TEMPORARY AND / OR PROPOSED SHIFTING TAPERS.
- •DO NOT PLACE TEMPORARY BARRIER IN GORE AREAS. TEMPORARILY CLOSE THE RAMP OR LOOP IF THE WORK CANNOT BE SAFELY PERFORMED WITHOUT PLACING TEMPORARY BARRIER IN THE GORE AREA.

TEMPORARY CLEAR ZONES

•AS A GENERAL GUIDELINE MAINTAIN A TEMPORARY WORK AREA CLEAR ZONE FOR THE DURATION OF THIS PROJECT ON ALL ROADWAYS AS FOLLOWS:

ROAD CLEAR ZONE

40 FT ALL OTHER ROADS 20 FT.

DUE TO VARYING FIELD CONDITIONS THIS GUIDELINE MAY BE MODIFIED AS FOLLOWS AND/OR AS DIRECTED BY THE ENGINEER:

-WHEN LANE CLOSURES ARE NOT IN EFFECT AND WORK IS NOT BEHIND BARRIER OR GUARDRAIL THE FOLLOWING CLEAR ZONE REQUIREMENTS SHOULD BE MET:

-MOVE EQUIPMENT, MATERIALS, STOCKPILES AND OBSTACLES CREATED BY WORK OPERATIONS THAT WERE NOT EXISTING PRIOR TO WORK BEGINNING, TO A LOCATION OUTSIDE THE CLEAR ZONE.

-MOVE OBSTACLES SUCH AS STOCKPILES AND NON-ACTIVE EQUIPMENT AT LEAST 5' AWAY FROM THE BACK OF BARRIER. IN GENERAL, IF STORING MATERIALS OR EQUIPMENT BEHIND ANY TYPE OF BARRIER THE DEFLECTION OF THE BARRIER SHOULD BE ACCOUNTED FOR AND ITEMS SHOULD NOT BE STORED IN THAT AREA.

-EXCAVATIONS OR OTHER IMMOVABLE OBSTRUCTIONS SHALL BE SAFED UP USING METHODS SUCH AS BACK-FILLING, COVERS, DELINEATION, ETC. METHODS MUST BE ACCEPTABLE TO THE ENGINEER.

OVERSIZE VEHICLES

- •ON ALL ROADWAYS WITHIN THE PROJECT LIMITS, PROVIDE SAFE ACCESS FOR WIDE-LOADS AND OVERSIZED PERMITTED VEHICLES THROUGH THE WORK ZONE. SAFE ACCESS SHALL ENTAIL, BUT IS NOT LIMITED TO, A SUFFICIENT PAVEMENT STRUCTURE, MAINTAINING THE EXISTING VERTICAL CLEARANCE OF OVERHEAD STRUCTURES, PROVIDING THE REQUIRED VERTICAL CLEARANCE ON PROPOSED OVERHEAD STRUCTURES AND PROVIDING THE MINIMUM HORIZONTAL CLEAR WIDTHS AS FOLLOWS:
- ROADWAY MINIMUM CLEAR WIDTH I-95, NC ROUTES, US ROUTES, AND ALL RAMPS AND LOOPS IS 20 FEET. ON ALL OTHER ROADWAYS 18 FEET.
- MAINTAIN THE EXISTING OVERHEIGHT VEHICLE DETECTION SYSTEM OPERATIONAL DURING THE PROJECT UNTIL DIRECTED BY THE ENGINEER TO REMOVE THE SYSTEM. REFER TO ITS PLANS.

TRAFFIC CONTROL DEVICES

- •ALL TRAFFIC CONTROL DEVICES, INCLUDING PORTABLE CONCRETE BARRIER AND BRIDGE BARRIER RAILS, SHALL BE PLACED / LOCATED A MINIMUM TWO-FOOT OFFSET (SHY DISTANCE) FROM THE EDGE OF AN OPEN TRAVEL LANE, UNLESS ALLOWED OTHERWISE BY THE ENGINEER.
- ENSURE ALL NECESSARY TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, MARKINGS, ETC ARE IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN
- •INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF UNEVEN AREA, AS DIRECTED BY THE ENGINEER.
- DURING PAVEMENT MILLING OPERATIONS PROVIDE "ROUGH ROAD" SIGNS (W8-8) IN ADVANCE OF A MILLED PAVEMENT AREA.
- •WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. SPACING OF CHANNELIZING DEVICES SHOWN IN THE PLANS MAY NOT BE TO SCALE DUE TO HORIZONTAL/VERTICAL CURVATURE AND OTHER ITEMS THAT MAY OBSCURE THE CHANNELIZING DEVICES, IT IS THE CONTRACTORS RESPONSIBILITY TO ADJUST SPACING IN ORDER TO EFFECTIVELY ACCOMPLISH THE INTENDED CHANNELIZATION.
- USE HIGH VISIBILITY TRAFFIC CONTROL DEVICES ON THIS PROJECT.
- USE "SEQUENTIAL FLASHING WARNING LIGHTS" AND "WORK ZONE PRESENCE LIGHTING" DURING NIGHT LANE CLOSURES ON I-95
- •INSTALL TEMPORARY "NO PARKING" SIGNS ON RAMPS OF THE TYPE AND AT LOCATIONS DETERMINED BY THE ENGINEER.

LAW ENFORCEMENT

- •PROVIDE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND OR INTERSECTIONS AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER. USE LAW ENFORCEMENT TO DIRECT TRAFFIC AT SIGNALIZED INTERSECTIONS. DO NOT USE FLAGGERS TO DIRECT TRAFFIC AT SIGNALIZED INTERSECTIONS.
- •COORDINATE WITH THE LAW ENFORCEMENT AGENCY FOR THE USE OF LAW ENFORCEMENT OFFICERS.
- •ALL LAW ENFORCEMENT LOCATIONS ARE TO BE PRE-APPROVED BY THE ENGINEER.
- REFER TO THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

WORK ZONE ADVANCE WARNING SIGNS

- PRIOR TO STARTING CONSTRUCTION OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON PROJECT AS FOLLOWS:
 - -I-95 PER SHEET TMP-2
 - -ALL OTHER ROADWAYS PER ROADWAY STANDARD DRAWING 1101.01.
- COORDINATE ADVANCE WARNING SIGNS WITH THE CONTRACTOR OF ADJACENT PROJECT I-5986A/I-5877.

CHANGEABLE MESSAGE SIGNS

- •PROVIDE CMS'S THAT HAVE THE FUNCTIONALITY TO BE OPERATED LOCALLY IN THE FIELD AND CONTROLLED REMOTELY FROM THE STOC. ALL CMS'S PROVIDED MUST BE FULLY NATIONAL TRANSPORTATION COMMUNICATIONS OR ITS PROTOCOL (NTCIP) COMPLIANT, ON THE NCDOT APPROVED PRODUCTS LIST, FULL MATRIX AND CAPABLE OF COMMUNICATING WITH THE EXISTING SOFTWARE UTILIZED BY THE STOC STAFF. NO VENDOR SPECIFIC OR THIRD-PARTY SOFTWARE WILL BE ALLOWED. DO NOT BEGIN ANY CONSTRUCTION THAT INVOLVES LANE CLOSURES ON ANY ROAD UNTIL ALL CMS'S AND ALL OTHER DEVICES ARE INSTALLED AND COMMUNICATING WITH THE STOC.
- FOR TRAFFIC CONTROL PURPOSES DURING CONSTRUCTION, PROVIDE AND OPERATE A MINIMUM OF ONE CMS PER DIRECTION ON I-95 THAT PROVIDES GENERAL INFORMATION ABOUT THE CONSTRUCTION ACTIVITIES WITHIN THE PROJECT LIMITS. PRIOR TO IMPLEMENTATION, COORDINATE ALL MESSAGES ON THESE CMS'S WITH THE RESIDENT ENGINEER, DIVISION 6 TRAFFIC ENGINEER, AND THE STOC. THESE CMS'S SHALL BE IN ADDITION TO ANY OTHER CMS'S REQUIRED BY THE NCDOT ROADWAY STANDARD DRAWINGS OR REQUIRED FOR INCIDENT MANAGEMENT USE.
- •INSTALL, RELOCATE, AND MAINTAIN THE CMS'S AND STATIONARY SIGNS DURING CONSTRUCTION OF THE PROJECT. UPON COMPLETION OF THE PROJECT, OR AS DIRECTED BY THE ENGINEER, REMOVE AND / OR DISPOSE OF THE CMS'S AND STATIONARY SIGNS.
- •COORDINATE ON A 24-HOUR BASIS WITH THE RESIDENT ENGINEER, DIVISION 6 TRAFFIC ENGINEER, AND THE STOC TO PROVIDE RELEVANT AND TIMELY TRAVEL INFORMATION THROUGHOUT THE WORK ZONE AND ALONG ALTERNATE ROUTES.
- IN ADDITION TO THE CMS'S REQUIRED ABOVE AND THE CMS'S REQUIRED FOR ITS. PROVIDE AND OPERATE A MINIMUM OF 12 CMS'S TO DISPLAY ALTERNATE ROUTE INFORMATION AHEAD OF THE PROJECT DETOUR POINTS FOR INCIDENTS ON I-95. THESE 12 CMS'S SHALL BE INSTALLED, OPERATED, AND MAINTAINED FROM THE INITIATION OF PROJECT CONSTRUCTIÓN TO PROJÉCT COMPLETION. THE 12 CMS'S SHALL BE USED TO PROVIDE PROJECT INFORMATION APPROVED BY THE DIVISION MAINTENANCE ENGINEER, RESIDENT ENGINEER, DIVISION 6 TRAFFIC ENGINEER, AND STATEWIDE TRANSPORTATION OPERATIONS CENTER (STOC) INCLUDING BUT NOT LIMITED TO CONSTRUCTION ACTIVITIES AND INCIDENT MANAGEMENT INFORMATION. THE POSITIONING OF THESE INCIDENT MANAGEMENT CMS'S SHALL BE COORDINATED WITH, AND APPROVED BY, THE RESIDENT ENGINEER, DIVISION 6 TRAFFIC ENGINEER. AND THE STOC.
- •ENSURE THAT ALTERNATE ROUTES FOR INCIDENT MANAGEMENT ARE SIGNED WITH EITHER EXISTING STATIONARY ALTERNATE ROUTE SIGNING OR PROVIDE TEMPORARY STATIONARY ALTERNATE ROUTE SIGNING TO GUIDE DETOURED MOTORISTS ALONG THE ALTERNATE ROUTE BACK TO THE ORIGINAL ROAD. PROVIDE A PLAN, FOR APPROVAL BY THE RESIDENT ENGINEER, DIVISION 6 TRAFFIC ENGINEER, AND STOC THAT SHOWS THE ALTERNATE ROUTES TO BE USED FOR INCIDENT MANAGEMENT, THE APPROXIMATE LOCATIONS OF CMS'S, ALONG WITH THEIR RESPECTIVE MESSAGES, AND EXISTING AND TEMPORARY STATIONARY ALTERNATE ROUTE SIGNING TO BE USED FOR INCIDENT MANAGEMENT. COORDINATE WITH THE RESIDENT ENGINEER, DIVISION 6 TRAFFIC ENGINEER, AND THE STOC WHEN ALTERNATE ROUTE INFORMATION NEEDS TO BE DISPLAYED. IN THE EVENT OF AN INCIDENT, THE STOC WILL TAKE REMOTE CONTROL OF THE APPLICABLE CMS'S TO PROVIDE INCIDENT MANAGEMENT INFORMATION TO MOTORISTS. UPON INCIDENT CLEARANCE AND RESUMPTION OF NORMAL TRAFFIC FLOW. THE STOC WILL ALLOW THE CONTRACTOR TO REGAIN CONTROL OF THE CMS'S.

 WHEN TEMPORARY BARRIER IS USED CONTINUOUSLY ON ONE OR BOTH SIDES OF A DIRECTION OF I-95 TRAVEL FOR A DISTANCE GREATER THAN TWO MILES PROVIDE A PAVED MOTORIST PULL-OFF AREA ON THE RIGHT SIDE OF THE I-95 TRAVELWAY EVERY MILE, UNLESS THE OUTSIDE USEABLE PAVED WIDTH (CLEAR DISTANCE BETWEEN EDGE OF TRAVEL LANE AND FACE OF BARRIER) IS TEN FEET OR GREATER. ALL MOTORIST PULL-OFF AREAS SHALL BE A MINIMUM OF ONE THOUSAND FEET LONG AND FOURTEEN FEET WIDE, TEN FEET OF WHICH SHALL BE PAVEMENT. ALL MOTORIST PULL-OFF AREAS SHALL BE IDENTIFIED ON THE PROJECT WITH CHANGEABLE MESSAGE SIGNS AND / OR STATIONARY SIGNS PLACED IN ADVANCE OF THE MOTORIST PULL-OFF AREA, AS APPROVED BY THE DEPARTMENT PRIOR TO INCORPORATION. EXIT RAMPS WILL BE CONSIDERED AS AN MOTORIST PULL-OFF AREA. SPECIFIC LOCATIONS ARE NOT SHOWN IN THE PLANS SINCE THEIR LOCATION WILL DEPEND ON THE CONTRACTOR'S SCHEDULE AND WHICH AREAS ARE CHOSEN TO BE WORKED ON CONCURRENTLY.

 BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPEN TRAVEL LANE THAT HAVE A DROP- OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR BACKFILL AS THIS WORK WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

•DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

LANE AND SHOULDER WIDTHS

•MAINTAIN A MINIMUM OF FOUR-FOOT WIDE INSIDE AND OUTSIDE PAVED SHOULDERS IN EACH DIRECTION OF I-95 UNLESS TEMPORARY BARRIER IS PLACED ON THE PAVED SHOULDER. UNDER STRUCTURES ONLY, MAINTAIN A MINIMUM TWO-FOOT WIDE PAVED SHOULDER ADJACENT TO I-95 THROUGH LANES AND A MINIMUM ONE-FOOT WIDE PAVED SHOULDER ADJACENT TO RAMPS.

ON ALL OTHER ROADWAYS MAINTAIN EXISTING SHOULDER WIDTHS.

LANE SHIFTS

•UNLESS OTHERWISE SHOWN IN THE PLANS. STRAIGHT TAPER LANE SHIFTS ON I-95 SHOULD BE THE FULL "L" DISTANCE. ON OTHER ROADWAYS 1/2 "L" MAY BE USED.

•WHEN A LANE SHIFT LATERAL DISTANCE (W) IS GREATER THAN 12' USE REVERSE CURVE WARNING SIGNS IN ADVANCE OF THE SHIFT. FOR W<12' THESE SIGNS MAY BE OMITTED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

•PRIOR TO SHIFTING TRAFFIC TO A NEW PATTERN ON I-95. INCLUDING ALL RAMPS AND LOOPS, REMOVE ALL CONFLICTING MARKERS AND SNOWPLOWABLE MARKER CASTINGS, PATHC ALL CASTING HOLES, AND CONCEAL ALL CONFLICTING MARKINGS.

TEMPORARY SHORING

DRAINAGE

- BY THE ENGINEER.

MOTORIST PULL-OFF AREAS

PAVEMENT DROP- OFF REQUIREMENTS

•UNLESS OTHERWISE SHOWN IN THE PLAN, WHEN LANE, ROAD AND / OR SHOULDER CLOSURES ARE NOT IN EFFECT, MAINTAIN THE EXISTING NUMBER OF TRAVEL LANES ON ALL ROADS. FOR EXISTING TRAVEL LANES THAT ARE 11-FOOT WIDE OR WIDER, MAINTAIN A MINIMUM OF 11-FOOT TRAVEL LANES AT ALL TIMES. FOR EXISTING TRAVEL LANES THAT ARE NARROWER THAN 11 FEET, MAINTAIN THE EXISTING TRAVEL LANE WIDTHS AT ALL TIMES.

•ON I-95 WHERE LANES ARE SHIFTING MORE THAN 12' USE A SOLID LANE LINE BETWEEN LANES INSTEAD OF A SKIP LINE.

•TEMPORARY SHORING SHOWN IN THE TRANSPORTATION MANAGEMENT PLAN ARE FOR LOCATION PURPOSES WHERE TEMPORARY SHORING AFFECTS TRAFFIC. LOCATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

•MAINTAIN DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WTH THE STANDARD SPECIFICATIONS AND THE PLANS.

•IN THE EVENT WHERE TRANSITIONING FROM EXISTING DRAINAGE TO THE PROPOSED DRAINAGE REQUIRES PHASING OF THE CONSTRUCTION PROVIDE TEMPORARY ACCOMMODATIONS TO MAINTAIN DRAINAGE AS SHOWN IN THE PLANS, OR AS DIRECTED

•REFER TO ROADWAY PLANS FOR TEMPORARY DRAINAGE REQUIREMENTS.

GENERAL NOTES

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- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK UNLESS COVERED.
- 2. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- 3. ERECT SIGNS PER RSD 1110.01. PAYMENT FOR WOOD POSTS, 3 LBS STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATIONS FOR WORK ZONE SIGNS.
- 4. WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH
- DO NOT BACK BRACE SIGN SUPPORTS.
- COORDINATE ADVANCE WARNING SIGNS WITH CONTRACTOR OF PROJECT I-5986A/I-5877 CURRENTLY UNDER

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- Legend and border shall be direct applied black non-reflective sheeting. 1.
- Background shall be NC GRADE B fluorescent orange 2. retroreflective sheeting.

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- Legend and border shall be direct applied black non-reflective sheeting. 1.
- Background shall be NC GRADE B fluorescent orange 2. retroreflective sheeting.

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- Legend and border shall be direct applied black non-reflective sheeting. 1.
- Background shall be NC GRADE B fluorescent orange 2. retroreflective sheeting.

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PROJECT REFERENCE NO. SHEET NO. I - 5878 / I - 5883 / I - 5986B TMP-2A3 Mar 07, 2020 DIV: 6 04206 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Michael Baker INTERNATIONAL 10" 10''EM 8" 10"EM 12" 12"E 10" **15.8**" Series/Size Text Length EM 2000 142.4 EM 2000 38.6 E 2000 58 .O.T. SIGN DETAIL

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- Legend and border shall be direct applied black non-reflective sheeting. 1.
- Background shall be NC GRADE B fluorescent orange 2. retroreflective sheeting.

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LETTER P(10.8 8.1 9.9	DSITI E 4.7 \$ 5 F 4.6	ONS N 5.5 2 5.3 I 2.4	D 4.1 5.3 N 5.5	10.8 0 4.3 E 3.7	8.1			Le	t
LETTER P(DSITI E 4.7 \$ 5 F 4.6	ONS N 5.5 2 5.3 I 2.4	D 4.1 5.3 N 5.5	10.8 0 4.3 E 3.7	8.1				
LETTER P(DSITIO E 4.7 \$ 5 F 4.6	ONS N 5.5 2 5.3 I 2.4	D 4.1 5.3 N 5.5	10.8 0 4.3 E 3.7	8.1				t
LETTER P(DSITI E 4.7 \$ 5 F 4.6	ONS N 5.5 2 5.3 I 2.4	D 4.1 5.3 N 5.5	10.8 0 4.3 E 3.7	9.9				t
LETTER P(DSITIO E 4.7 \$ 5 F 4.6	DNS N 5.5 2 5.3 I 2.4	D 4.1 5 5.3 N 5.5	10.8 0 4.3 E 3.7	8.1 9.9				-t
LETTER P(DSITIO	ONS N 5.5 2 5.3 I 2.4	D 4.1 5.3 N 5.5	10.8 0 4.3 E 3.7	8.1				
LETTER P(DSITIO	ONS N 5.5 2 5.3 I 2.4	D 4.1 5.3 N 5.5	10.8 0 4.3 E 3.7	9.9				

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NOTES	5.

INSTALL TEMPORARY BARRIER AT A MINIMUM OFFSET
OFFSET THE APPROACH END AND CRASH CUSHION 4'
OTHERWISE SHOWN IN THE PLANS. IN THE EVENT A 4'
USED BUT NOT LESS THAN 2'.

REQUI	RED CL	EAR DI	STANCI	E, inches	5	
ffset *		De	sign Spe	ed, mph		
ft	<30	31-40	41-50	51-60	61-70	71-80
<8	24	26	29	32	36	40
8-14	26	28	31	35	38	42
4-20	27	29	34	36	39	43
20-26	28	31	35	38	40	44
26-32	29	32	36	39	42	45
82-38	30	34	38	41	43	46
38-44	31	34	41	43	45	48
4-50	31	35	41	43	46	49
50-56	32	36	42	44	47	50
>56	32	36	42	45	47	51
<8	17	18	21	22	25	26
8-14	19	20	23	25	26	29
14-20	22	22	24	26	28	31
20-26	23	24	26	27	30	34
26-32	24	25	27	28	32	35
32-38	24	26	27	30	33	36
38-44	25	26	28	30	34	37
44-50	26	26	28	32	35	37
50-56	26	26	28	32	35	38
>56	26	27	29	32	36	38
All Offsets		24 f	or All De	esign Sp	eeds	
All Offsets		12 f	or All De	esign Sp	eeds	

FIGURE B

DETAIL PROVIDED BY NCDOT

PORTABLE CONCRETE BARRIER AT **TEMPORARY SHORING LOCATIONS**

TEMPORARY SHORING LOCATION NO. 1-1	TEMPORARY SHORING LOCATION NO. 1-3
$-SB9-STA_74+25.14.0' \text{ BT TO } -SB9-STA_79+60.14.0' \text{ BT}$	-L- STA. 970+92, 13.5' LT TO -L- STA. 971+90, 1
LENGTH=535' AVERAGE HEIGHT = 2.17 FT MAXIMUM HEIGHT = 2.75 FT	LENGTH=97.61′ AVERAGE HEIGHT = 6.27 FT MAXIM
SHORING LOCATION NO. 1-1	SHORING LOCATION NO. 1-3
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION F SHORING, SEE PLANS AND TEMPORARY SHORING PROVIS
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR C SURVEY EXISTING GROUND ELEVATIONS IN THE VICINIT LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
DESIGN TEMPORARY SHORING FROM STATION -SR9- 74+25 \pm , 14 FT RIGHT, TO STATION -SR9- 79+60 \pm , 14 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	DESIGN TEMPORARY SHORING FROM STATION -L- 970+92 STATION -L- 971+90 ±, 13.5 FT LEFT, FOR THE FOLLOWING PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 193 FT	UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 183 FT
DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -SR9- 74+25 ±, 14 FT RIGHT, TO STATION -SR9- 79+60 ± 14 FT RIGHT	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHO STATION -L- 970+92 \pm , 13.5 FT LEFT, TO STATION -L- 971+90
AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -SR9- 74+25 ±, 14 FT RIGHT, TO STATION -SR9- 79+60 ±, 14 FT RIGHT. SEE GEOTECHNICAL STANDARD DETAIL	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPO GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FOR TEM FROM STATION -L- 970+92 \pm , 13.5 FT LEFT, TO STATION -L- \pm , 13.5 FT LEFT.
TEMPORARY SHORING LOCATION NO. 1-2 ESTIMATED QUANTITY = 585.82 SF	TEMPORARY SHORING LOCATION NO.1-4 ESTIMATE
SEE SHEET TMP-4CTEMPORARY SHORING LOCATION NO.1-2SEE SHEET TMP-4CESTIMATED QUANTITY = 585.82 SF-L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RTLENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT	TEMPORARY SHORING LOCATION NO.1-4 ESTIMATED -LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM
TEMPORARY SHORING LOCATION NO.1-2 SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO. 1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY	TEMPORARY SHORING LOCATION NO.1-4 SEE -LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM SHORING LOCATION NO. 1-4 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR
TEMPORARY SHORING LOCATION NO.1-2 SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO. 1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, DEFENDED ON DEPENDENT OF DEPENDENT	TEMPORARY SHORING LOCATION NO.1-4 SEE -LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM SHORING LOCATION NO. 1-4 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR SHORING, SEE PLANS AND TEMPORARY SHORING PROVISI BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONTENT
TEMPORARY SHORING LOCATION NO. 1-2 SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO. 1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	TEMPORARY SHORING LOCATION NO.1-4 SEE ESTIMATED -LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM SHORING LOCATION NO. 1-4 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FO SHORING, SEE PLANS AND TEMPORARY SHORING PROVISI BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CC SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS
TEMPORARY SHORING LOCATION NO.1-2 SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO. 1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION-L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	TEMPORARY SHORING LOCATION NO.1-4 SEE -LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM SHORING LOCATION NO. 1-4 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FO SHORING, SEE PLANS AND TEMPORARY SHORING PROVISI BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CC SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS DESIGN TEMPORARY SHORING FROM STATION -LREV- 100 TO STATION -LREV- 1002+35 ±, 21 FT LEFT, FOR THE FOLLO SOIL PARAMETERS AND GROUNDWATER ELEVATION:
SEE SHEET TMP-4CESTIMATED QUANTITY = 585.82 SF-L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RTLENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FTSHORING LOCATION NO. 1-2FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHT.DESIGN TEMPORARY SHORING FROM STATION-L-970+92 ±, 13.5 FT RIGHT, TO STATION-L-971+90 ±, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 183 FT	EXAMPLE A SEETEMPORARY SHORING LOCATION NO. $1-4$ SEE-LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIMSHORING LOCATION NO. 1-4FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOSHORING, SEE PLANS AND TEMPORARY SHORING DESIGN OR CCSURVEY EXISTING GROUND ELEVATIONS IN THE VICINITYLOCATION STO DETERMINE ACTUAL SHORING HEIGHTSDESIGN TEMPORARY SHORING FROM STATION -LREV- 100TO STATION -LREV- 1002+35 ±, 21 FT LEFT, FOR THE FOLLOSOIL PARAMETERS AND GROUNDWATER ELEVATION:UNIT WEIGHT (γ) = 120 PCFFRICTION ANGLE (ϕ) = 30 DEGREESCOHESION (c) = 0 PSFGROUNDWATER ELEVATION = 187 5 FT
TEMPORARY SHORING LOCATION NO.1-2 SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO.1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION-L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FIGUTION MOLE (b) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 183 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM CONTON L - 000000 DE DEPENDED TO DETERMINE ACTUAL OF UND A DETERMENT	SEETEMPORARY SHORING LOCATION NO.1.4SEEESTIMATED- LREV- STA. 1002+00, 21' LT TO - LREV- STA. 1002LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIMSHORING LOCATION NO. 1-4FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOSHORING, SEE PLANS AND TEMPORARY SHORING PROVISIBEFORE BEGINNING TEMPORARY SHORING DESIGN OR COSURVEY EXISTING GROUND ELEVATIONS IN THE VICINITYLOCATION STO DETERMINE ACTUAL SHORING HEIGHTSDESIGN TEMPORARY SHORING FROM STATION -LREV- 100TO STATION -LREV- 1002+35 ±, 21 FT LEFT, FOR THE FOLLOSOIL PARAMETERS AND GROUNDWATER ELEVATION:UNIT WEIGHT (ψ) = 120 PCFFRICTION ANGLE (ϕ) = 30 DEGREESCOHESION (c) = 0 PSFGROUNDWATER ELEVATION = 187.5 FTDO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORDO NOT USE A TEMPORARY WALL FOR TEMPORARY SHOR
SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO.1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION-L-970+92 ±, 13.5 FT RIGHT, TO STATION-L-971+90 ±, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FRICTION ANGLE (b) = 30 DEGREES COHESION (c) = 0 SFF GROUNDWATER ELEVATION = 183 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION-L- 970+92 ±, 13.5 FT RIGHT, TO STATION -L- 971+90 ±, 13.5 FT RIGHT. ATHECONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING,	TEMPORARY SHORING LOCATION NO. 1-4 SEE ESTIMATED -LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM SHORING LOCATION NO. 1-4 FOR TEMPORARY SHORING AND POSITIVE PROTECTION F SHORING, SEE PLANS AND TEMPORARY SHORING PROVIS BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CC SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY LOCATION TO DETERMINE ACTUAL SHORING HEIGHTS DESIGN TEMPORARY SHORING FROM STATION -LREV-1002 SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (Y) = 120 PCF FRICTION ANGLE (\$\$) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 187.5 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHOI STATION -LREV- 1002+00 ±, 21 FT LEFT TO STATION -LREV-LEFT.
SEE SHEET TMP-4CESTIMATED QUANTITY = 585.82 SF-L- STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RTLength=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FTSHORING LOCATION NO. 1-2FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.DESIGN TEMPORARY SHORING FROM STATION-L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (ψ) = 120 PCF RICTION ANGLE (ψ) = 30 DEGREES COHESION (ψ) = 0 PSF GROUNDWATER ELEVATION = 183 FTDO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT, TO STATION -L-970+92 ±, 13.5 FT RIGHT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FROM STATION -L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT.AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FROM STATION -L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT.AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FROM STATION -L-970+92 ±, 13.5 FT RIGHT, TO STATION -L-971+90 ±, 13.5 FT RIGHT.	TEMPORARY SHORING LOCATION NO.1-4SEE ESTIMATED-LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXINSHORING LOCATION NO. 1-4FOR TEMPORARY SHORING AND POSITIVE PROTECTION F SHORING, SEE PLANS AND TEMPORARY SHORING DESIGN OR CI SURVEY EXISTING GROUND ELEVATIONS IN THE VICINIT LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTSDESIGN TEMPORARY SHORING FROM STATION -LREV-100 TO STATION -LREV-1002+35 ±, 21 FT LEFT, FOR THE FOLLO SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FRICTION ANGLE (\$\$0 = 30 DEGREES COHESION (\$\$0 = 0 PSF GROUNDWATER ELEVATION = 187.5 FTDO NOT USE A TEMPORARY WALL FOR TEMPORARY SHOR STATION -LREV-1002+00 ±, 21 FT LEFT TO STATION -LREV- LEFT.IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL TEMPORARY SOIL NAIL WALL FOR TEMPORARY SOIL NAIL TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL VERVOUSN
SEE SHEET TMP-4CESTIMATED QUANTITY = 585.82 SF-L- STA. 970+92, 13.5' RT T0 -L- STA. 971+90, 13.5' RTESTIMATED QUANTITY = 585.82 SF-L- STA. 970+92, 13.5' RT T0 -L- STA. 971+90, 13.5' RTENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FTSHORING LOCATION NO. 1-2SHORING COLTION NO. 1-2CRIEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEYATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.DESIGN TEMPORARY SHORING FROM STATION-1-970+92 ±, 13.5 FT RIGHT, TO STATION-1-971+90 ±, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FRICTION ANGLE (\u00et) = 30 DEGREES COHESION (0) - 0 PSF GROUNDWATER ELEVATION = 183 FTDO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -1-970+92 ±, 13.5 FT RIGHT, TO STATION -1-971+90 ±, 13.5 FT RIGHT.ATTION ON TUSE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -1-970+92 ±, 13.5 FT RIGHT, TO STATION -1-971+90 ±, 13.5 FT RIGHT.ATTION ON TUSE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -1-970+92 ±, 13.5 FT RIGHT, TO STATION -1-971+90 ±, 13.5 FT RIGHT.ATTION ON TUSE A TEMPORARY OUT USE STANDARD TEMPORARY SHORING FROM STATION -1-970+92 ±, 13.5 FT RIGHT, TO STATION -1-971+90 ±, 13.5 FT RIGHT.	TEMPORARY SHORING LOCATION NO.1.4SEE ESTIMATED-LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIMSHORING LOCATION NO.1-4FOR TEMPORARY SHORING AND POSITIVE PROTECTION F SHORING, SEE PLANS AND TEMPORARY SHORING DESIGN OR CO SURVEY EXISTING GROUND ELEVATIONS IN THE VICINIT' LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTSDESIGN TEMPORARY SHORING FROM STATION -LREV-1002-435 ±, 21 FT LEFT, FOR THE FOLLO SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FRICTION ANGLE (ф) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 187.5 FTDO NOT USE A TEMPORARY WALL FOR TEMPORARY SHOR STATION -LREV-1002+00 ±, 21 FT LEFT TO STATION -LREV- LEFT.IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL TEMPORARY SOIL NAIL WALL FOR TEMPORARY SOIL NAIL TEMPORARY SOIL NAIL WALL S, SEE TEMPORARY SOIL NAIL PROVISION.
TEMPORARY SHORING LOCATION NO. (1-2) SEE SHEET TMP-4C ESTIMATED QUANTITY = 585.82 SF -1 STA. 970+92, 13.5' RT TO -L- STA. 971+90, 13.5' RT LENGTH=97.61' AVERAGE HEIGHT = 6.27 FT MAXIMUM HEIGHT = 6.82 FT SHORING LOCATION NO. 1-2 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND LEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. DISIGN TEMPORARY SHORING FROM STATION-L- 970+92, 13 S FT RIGHT, TO STATION -L- 971+90 +, 13.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (9) = 120 PCF FRICTION ANGLE (4) = 30 DEGREES COHESION(4) = 0 FSF GROUNDWATER ELEVATION - 183 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -1. 970+92 +, 13.5 FT RIGHT, TO STATION -1. 971-90 -, 1.5. FT RIGHT. ATHIE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FROM STATION -1. 970+92 +, 13.5 FT RIGHT, TO STATION -1. 971-90 +, 1.5. FT RIGHT.	TEMPORARY SHORING LOCATION NO. 1.4 SEE ESTIMATED •LREV- STA. 1002+00, 21' LT TO -LREV- STA. 1002 LENGTH=35.0' AVERAGE HEIGHT = 10.8 FT MAXIM SHORING LOCATION NO. 1-4 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FO SHORING, SEE PLANS AND TEMPORARY SHORING PROVIS BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CC SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY LOCATION TO DETERMINE ACTUAL SHORING HEIGHTS DESIGN TEMPORARY SHORING FROM STATION -LREV- 100 TO STATION -LREV- 1002+35 ±, 21 FT LEFT, FOR THE FOLLO SOIL PARAMETERS AND GROUNDWATER ELEVATIONS: UNIT WEIGHT (v) = 120 PCF FRICTION ANGLE (w) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 187.5 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHOR STATION -LREV- 1002+00 ±, 21 FT LEFT TO STATION -LREV- LEFT. IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NALLY TEMPORARY SOIL NAL WALL FOR TEMPORARY SOIL NAL Y TEMPORARY SOIL NAL WALLS, SEE TEMPORARY SOIL NAL Y TEMPORARY SOIL NAL WALLS, SEE TEMPORARY SOIL NAPROVISION.

dan LOCATION NOTES 9 AI-I TEN 026 ЧМГ \square 4/2/2021 R:\Traffic\Tr Caroline.0win.

TEMPORARY SHORING LOCATION NO. 1-5	TEMPORARY SHORING LOCATION NO. 1-7
-LREV- STA. 1003+39, 7' LT TO -LREV- STA. 1004+00, 18' LT LENGTH=61.0' AVERAGE HEIGHT = 13.7 FT MAXIMUM HEIGHT = 20.4 FT	-LREV- STA. 1003+28, 10.0' LT TO -LREV- STA. 1004+0 LENGTH=72.00' AVERAGE HEIGHT = 25.9 FT MAXIMUM H
SHORING LOCATION NO. 1-5	SHORING LOCATION NO. 1-7
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEM SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRU SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SH LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
DESIGN TEMPORARY SHORING FROM STATION -LREV- $1003+39 \pm$, 18 FT LEFT TO STATION -LREV- $1004+00 \pm$, 18 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	DESIGN TEMPORARY SHORING FROM STATION -LREV- 1003+28 ±, TO STATION -LREV- 1004+00 ±, 10 FT LEFT, FOR THE FOLLOWING SOIL PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 187.5 FT	UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 187.5 FT
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -LREV- 1003+39 ±, 18 FT LEFT TO STATION -LREV- 1004+00 ±, 18 FT LEFT.	DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOI TEMPORARY SHORING FROM STATION LREV- $1003+28 \pm$, 10 FT LEI STATION -LREV- $1004+00 \pm$, 10 FT LEFT.
IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION - LREV- 1003+39 ±, 18 FT LEFT TO STATION -LREV- 1004+00 ±, 18 FT LEFT FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY V TEMPORARY SHORING FROM STATION - LREV- 1003+28 ±, 10 FT L STATION -LREV- 1004+00 ±, 10 FT LEFT. SEE STANDARD DETAIL N FOR STANDARD TEMPORARY WALLS.
PROVISION.	WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACK BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.
ENGTH=38.00' AVERAGE HEIGHT = 29.3 FT MAXIMUM HEIGHT = 31.3 FT	
LENGTH=38.00' AVERAGE HEIGHT = 29.3 FT MAXIMUM HEIGHT = 31.3 FT SHORING LOCATION NO. 1-6 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. DESIGN TEMPORARY SHORING FROM STATION -LREV- 1002+00 ±, 13 FT LEFT TO STATION -LREV- 1002+38 ±, 13 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 187.5 FT DO NOT USE A CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -LREV- 1002+00 ±, 13 FT LEFT, TO STATION -LREV- 1002+38 ±, 13 FT LEFT. WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER	SHORING LOCATION NO. 1-8 FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEL SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTR SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF S LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS. LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VIC TEMPORARY SHORING FROM STATION -L- 973+00 ±, 77 FT LEFT, 7 -L-973+00 ±, 97 FT LEFT. THE INFORMATION PROVIDED FOR TEM SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABL ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCT DESIGN TEMPORARY SHORING FROM STATION -L- 973+00 ±, 77 FT STATION -L- 973+00 ±, 97 FT LEFT, FOR THE FOLLOWING ASSUME PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (φ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 181.5 FT DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FO TEMPORARY SHORING FROM STATION -L- 973+00 ±, 77 FT LEFT, 7

LOCATIONS. NOTES 5 ΤEΝ 0261 AI-2 TMP E 4/2/2021 R:\Traffic\Tr raroline,0winc

TEMPORARY SHORING LOCATION NO. 1-9	TEMPORARY SHORING LOCATION NO. 1-11 ESTIM
-SR11- STA. 13+40, 7.5' RT TO -SR11- STA. 19+18, 7.5' RT LENGTH=578' AVERAGE HEIGHT = 6.14 FT MAXIMUM HEIGHT = 6.75 FT	-L- STA. 1041+74, 38.0' LT TO -L- STA. 1042 LENGTH=111.62' AVERAGE HEIGHT = 15.13 FT
SHORING LOCATION NO. 1-9	SHORING LOCATION NO. 1-11
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTECT SHORING, SEE PLANS AND TEMPORARY SHORING P
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN SURVEY EXISTING GROUND ELEVATIONS IN THE V LOCATIONS TO DETERMINE ACTUAL SHORING HEI(
DESIGN TEMPORARY SHORING FROM STATION -SR11- 13+40 ±, 7.5 FT RIGHT, TO STATION -SR11- 19+18 ±, 7.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	DESIGN TEMPORARY SHORING FROM STATION -L- 1 STATION -L- 1042+86 ±, 38 FT LEFT, FOR THE FOLLOV PARAMETERS AND GROUNDWATER ELEVATION:
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 188 FT	UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 28 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 162.5 FT
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -SR11- 13+40 ±, 7.5 FT RIGHT, TO STATION -SR11- 19+18 ±, 7.5 FT RIGHT.	DO NOT USE CANTILEVER, BRACED OR ANCHORED TEMPORARY SHORING FROM STATION -L- 1041+74 ± -L- 1042+86 ±, 38 FT LEFT.
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -SR11- 13+40 ±, 7.5 FT RIGHT, TO STATION -SR11- 19+18 ±, 7.5 FT RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.	
TEMPORARY SHORING LOCATION NO. 1-10 ESTIMATED QUANTITY = 1415.93 SF -L- STA. 1041+72, 30.5' LT TO -L- STA. 1042+82, 30.5' LT LENGTH=110.37' AVERAGE HEIGHT = 14.92 FT MAXIMUM HEIGHT = 19.09 FT	TEMPORARY SHORING LOCATION NO.1-12 -SBCD- STA. 26+80, 17.5' RT TO -SBCD- STA. LENGTH=394.00' AVERAGE HEIGHT = 5.89 FT
SHORING LOCATION NO. 1-10	SHORING LOCATION NO. 1-12
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION	FOR TEMPORARY SHORING AND POSITIVE PROTEC SHORING, SEE PLANS AND TEMPORARY SHORING P
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIGN SURVEY EXISTING GROUND ELEVATIONS IN THE V LOCATIONS TO DETERMINE ACTUAL SHORING HEI(
DESIGN TEMPORARY SHORING FROM STATION -L- 1041+72 ±, 30.5 FT LEFT, TO STATION -L- 1042+82 ±, 30.5 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	DESIGN TEMPORARY SHORING FROM STATION -SCH TO STATION -SCBD- $30+74 \pm$, 17.5 FT RIGHT, FOR THE SOIL PARAMETERS AND GROUNDWATER ELEVATIO
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 28 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 162.5 FT	UNIT WEIGHT (γ) = 120 PCF RICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 185 FT
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1041+72 \pm , 30.5 FT LEFT, TO STATION -L- 1042+82 \pm , 30.5 FT LEFT.	DO NOT USE CANTILEVER, BRACED OR ANCHORED TEMPORARY SHORING FROM STATION -SCBD- $26+84$ STATION -SCBD- $30+74 \pm$, 17.5 FT RIGHT.
	AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY SHORING FROM STATION -SCBD- 26+89 STATION -SCBD- 30+74 ±, 17.5 FT RIGHT. SEE GEOTE DETAIL NO. 1801.02, FOR STANDARD TEMPORARY V

þ NOTES LOCATION 0 - HO AI-3 TEMP 0262 TMP m 4/2/2021 R:\Traffic\Tr raroline.0wing

L- STA.	RARI SU	ORING	LOCA	TION	NO .	- 13		5	SEE	SHEET	TMP - 10E
	1041+3	6, 30	.5′ F	T TO	- L -	STA	ES	1МА)42+	50,	QUAN 30.5	$\frac{ \mathbf{I} \mathbf{Y} = 1}{ \mathbf{R} \mathbf{T} }$
ENGTH=1	14.37′	AVER	AGE	HEIGH	IT =	15.	62	= T	MA	XIMUM	HEIGHT
	SHORING	LOCAT	ION N	0. 1-13							
	FOR TEMP SHORING,	ORARY SEE PLA	SHOR ANS AN	ING ANI ND TEM	D POSI PORAI	TIVE RY SH	PROT IORIN	ECTI G PR	ON FO OVISI	OR TEMI ON.	PORARY
	BEFORE B SURVEY E LOCATION	EGINNIN XISTINC NS TO DE	NG TEN 5 GROU ETERM	MPORAH UND EL IINE AC	RY SHO EVATI FUAL	ORINO ONS I Shor	G DES IN TH LING I	IGN C E VIC HEIGH	OR CC INITY ITS.	ONSTRU(7 OF SHC	CTION, DRING
	DESIGN T TO STATIO SOIL PARA	EMPORA DN -L- 10 Ameter	RY SH 42+50 S AND	IORING ±, 30.5 F GROUN	FROM T RIG IDWA	STAT HT, F(TER E	FION - OR TH ELEV A	·L- 104 IE FOI ATION	41+36 LLOW [:	±, 30.5 F /ING AS	FT RIGHT, SUMED
	UNIT FRICT COHE GROU	WEIGHT ION ANG SION (c) NDWAT	' (γ) = 1 GLE (¢ = 0 PS ER EL	20 PCF 5) = 26 D F EVATIO	EGRE	ES 6 FT					
	DO NOT U STATION -	SE A TEI ·L- 1041+	$\frac{\text{MPOR}}{36 \pm, 3}$	ARY WA 0.5 FT R	LL FC IGHT,	OR TEI TO SI	MPOR FATIC	ARY : DN -L-	SHOR 1042-	CING FRO +50 ±, 30	OM .5 FT RIGHT.
TEMPO	RARY SH	ORTNG		ATTON	NO .	1 - 14		S	SEE	SHEET	TMP-10E
L- STA	1041+3	0. 38			- L -	STA	ES1	-IMA 042+	TED	QUAN1	TITY = 1 ' RT
ENGTH=1	14.29′	AVER	AGE	HEIGH	IT =	15.	60	= T	MAX	IMUM	HEIGHT =
	SHORING	LOCAT	ION N	0. 1-14							
	SHORING FOR TEMP SHORING,	LOCAT ORARY SEE PLA	ION N SHOR ANS AN	D. 1-14 ING ANI ND TEM) POSI PORAI	TIVE RY SH	PROT IORIN	ECTIO G PRO	ON FO OVISI	OR TEMI ON.	PORARY
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION	LOCAT ORARY SEE PLA EGINNIN XISTINC	ION NO SHORI ANS AN NG TEN G GROU ETERM	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC	D POSI PORAJ RY SHO EVATI FUAL	TIVE RY SH ORING ONS I SHOR	PROT IORIN G DES IN TH LING I	ECTIO G PRO IGN C E VIC HEIGH	ON FO OVISI OR CC INITY ITS.	OR TEMI ON. ONSTRUC OF SHC	PORARY CTION, DRING
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TH STATION - PARAMET	LOCATI ORARY SEE PLA EGINNIN EXISTINC NS TO DE EMPORA L- 1042+ ERS ANI	ION NO SHOR ANS AN G TEN G GROU ETERM RY SH 44 ±, 3 D GRO	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC IORING 8 FT RIC UNDWA	D POSI PORAI EVATI FUAL FROM HT, F	TIVE RY SH ORING ONS I SHOR SHOR SHOR CLEVA	PROT IORIN G DES IN TH LING I LION - HE FO ATION	ECTIO G PRO E VIC HEIGH L- 104 LLOW	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMI ON. ONSTRUC OF SHC ±, 38 FT ASSUMI	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TI STATION - PARAMET UNIT FRICT COHE	LOCAT ORARY SEE PLA EGINNIN EXISTINC VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANG SION (c)	SHOR SHOR ANS AN ANS AN G TEN G GROU ETERM A44 \pm , 3 O GRO C (γ) = 1 GLE (φ = 0 PS	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC' IORING 8 FT RIC UNDWA 20 PCF (-) = 26 D F	D POSI PORAI EVATI FUAL FROM HT, F TER E EGRE	TIVE RY SH ORING ONS I SHOR SHOR SHOR ES	PROT IORIN G DES IN TH LING I LION - HE FO ATION	ECTIO G PRO IGN C E VIC HEIGH L- 104 LLOW	ON FO OVISI OR CO INITY ITS. 41+30 /ING	OR TEMI ON. ONSTRUC 2 OF SHC ±, 38 FT ASSUMI	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TH STATION - PARAMET UNIT FRICT COHE GROU	LOCATI PORARY SEE PLA EGINNIN XISTINC VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANG SION (c) NDWAT	ION N SHOR ANS AN NG TEN G GROU ETERM A4 \pm , 3 O GRO C (γ) = 1 GLE (φ = 0 PS ER EL	D. 1-14 ING ANI ND TEM MPORAH UND ELI UND ELI UND AC IORING 8 FT RIC UNDWA 20 PCF (0) = 26 D F EVATIO	D POSI PORAJ EVATI TUAL FROM HT, F TER E EGREJ N = 17	TIVE RY SH ORING ONS I SHOR SHOR I STAT OR TH ELEVA ES 6 FT	PROT IORIN G DES IN TH XING I TION - TION TION	ECTIO G PRO IGN C E VIC HEIGH L- 104 LLOW	ON FO OVISI OR CC INITY ITS. 41+30 /ING	DR TEMI ON. DNSTRUC C OF SHC ±, 38 FT ASSUMI	PORARY CTION, DRING TRIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TI STATION - PARAMET UNIT FRICT COHE GROU	LOCATI ORARY SEE PLA EGINNIN EXISTINC VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANG SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM A4 \pm , 3 O GRO C (γ) = 1 GLE (φ = 0 PS ER EL LEVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI UND ELI INE AC IORING 8 FT RIC UNDWA 20 PCF = 26 D F EVATIO BRACEI L- 1041+3	D POSI PORAL EVATI FUAL FROM HT, F TER E EGRE N = 17 O OR A 0 \pm , 38	TIVE RY SH ORING ONS I SHOR SHOR SHOR ES 6 FT NCHO FT RI	PROT IORIN G DES IN TH LING I TION HE FO ATION RED S GHT, T	ECTIO G PRO E VIC HEIGH L- 104 LLOW I: HORIN	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMI ON. ONSTRUC C OF SHC ±, 38 FT ASSUME R TEMPC I -L- 1042	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TI STATION - PARAMET UNIT FRICT COHE GROU	LOCATI ORARY SEE PLA EGINNIN XISTINC VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANG SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM A4 \pm , 3 O GRO C (γ) = 1 GLE (φ = 0 PS ER EL LEVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI UND ELI INE AC IORING 8 FT RIC UNDWA 20 PCF = 26 D F EVATIO BRACEI L- 1041+3	D POSI PORAL EVATI FUAL FROM HT, F TER E EGRE N = 17 O OR A 0 ± 38	TIVE RY SH ORING ONS I SHOR SHOR SHOR ES 6 FT NCHO FT RI	PROT IORIN G DES IN TH LING I TION - HE FO ATION RED S GHT, T	ECTIO G PRO E VIC HEIGH L- 104 LLOW	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMI ON. ONSTRUC C OF SHO ±, 38 FT ASSUME	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMF SHORING, BEFORE B SURVEY E LOCATION DESIGN TI STATION - PARAMET UNIT FRICT COHE GROU	LOCATI ORARY SEE PLA EGINNIN XISTINC VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANO SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM RY SH $44 \pm, 3$ O GRO C (γ) = 1 GLE (φ = 0 PS ER EL LEVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC IORING 8 FT RIC UNDWA 20 PCF 0) = 26 D F EVATIO BRACEI L- 1041+3	D POSI PORAL EVATI FUAL FROM HT, F TER E EGREI N = 17 O OR A $0 \pm$, 38	TIVE RY SH ORING ONS I SHOR SHOR SHOR ES 6 FT NCHO FT RI	PROT IORIN G DES IN TH LING I TION - HE FO ATION RED S GHT, T	ECTIO G PRO E VIC HEIGH L- 104 LLOW	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMI ON. NSTRUC C OF SHC ±, 38 FT ASSUME	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TI STATION - PARAMET UNIT FRICT COHE GROU DO NOT USI SHORING FI RIGHT.	LOCATI ORARY SEE PLA EGINNIP XISTINO VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANO SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM RY SH $44 \pm, 3$ O GRO C (γ) = 1 GLE (φ = 0 PS ER EL LEVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC IORING 8 FT RIC UNDWA 20 PCF 0) = 26 D F EVATIO BRACEI L- 1041+3	D POSI PORAL EVATI FUAL FROM HT, F TER E EGREI N = 17 O OR A $0 \pm , 38$	TIVE RY SH ORING ONS I SHOR SHOR SHOR I STAT OR TH ELEVA ES 6 FT NCHO FT RI	PROT IORIN G DES IN TH LING I FION E FO ATION RED S GHT, T	ECTIO G PRO E VIC HEIGH L- 104 LLOW I: HORIN FO STA	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMI ON. NSTRUC C OF SHC ±, 38 FT ASSUMP	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TH STATION PARAMET UNIT FRICT COHE GROU DO NOT USI SHORING FI RIGHT.	LOCATI ORARY SEE PLA EGINNIN XISTING VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANG SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM $44 \pm, 3$ O GRO C (γ) = 1 GLE (φ = 0 PS ER EL EVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC IORING 8 FT RIC UNDWA 20 PCF 0) = 26 D F EVATIO BRACEI L- 1041+3	D POSI PORAL EVATI FUAL FROM HT, F TER E EGREI N = 17 O OR A $0 \pm , 38$	TIVE RY SH ORING ONS I SHOR SHOR SHOR COR TH CLEVA ES 6 FT NCHO FT RI	PROT IORIN G DES IN TH ZING I FION - TION - TION ATION RED S GHT, T	ECTIO G PRO IGN C E VIC HEIGH L- 104 LLOW I: HORIN TO STA	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMH ON. NSTRUC (OF SHC ±, 38 FT ASSUME R TEMPC I -L- 1042	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TH STATION- PARAMET UNIT FRICT COHE GROU DO NOT USI SHORING FI RIGHT.	LOCATI ORARY SEE PLA EGINNIE XISTING VS TO DE EMPORA L- 1042+ ERS ANI WEIGHT ION ANG SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM $44 \pm, 3$ O GRO C (γ) = 1 GLE (φ = 0 PS ER EL LEVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC IORING 8 FT RIC UNDWA 20 PCF 0) = 26 D F EVATIO BRACEI L- 1041+3	D POSI PORAL EVATI TUAL FROM HT, F TER E EGREI N = 17 O OR A $0 \pm, 38$	TIVE RY SH ORING ONS I SHOR SHOR COR TH ELEVA ES 6 FT NCHO FT RI	PROTIORIN G DES IN TH UNG I FION - HE FO ATION RED S GHT, T	ECTIO G PRO IGN C E VIC HEIGH L- 104 LLOW I:	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMH ON. NSTRUC C OF SHC ±, 38 FT ASSUMH	PORARY CTION, DRING RIGHT, TO ED SOIL
	SHORING FOR TEMP SHORING, BEFORE B SURVEY E LOCATION DESIGN TI STATION- PARAMET UNIT FRICT COHE GROU DO NOT USI SHORING FI RIGHT.	LOCATI ORARY SEE PLA EGINNIN XISTINC STO DE EMPORA L- 1042+ ERS ANI WEIGHT TON ANG SION (c) NDWAT E CANTIL ROM STA	ION N SHOR ANS AN OG TEN G GROU ETERM A4 \pm , 3 O GRO C (γ) = 1 GLE (φ = 0 PS ER EL LEVER, TION -	D. 1-14 ING ANI ND TEM MPORAH UND ELI IINE AC IORING 8 FT RICUNDWA20 PCF $0) = 26 DFEVATIOBRACEIL- 1041+3$	D POSI PORAL EVATI TUAL FROM HT, F TER E EGREI N = 17 O OR A $0 \pm, 38$	TIVE RY SH ORING ONS I SHOR SHOR COR TH ELEVA ES 6 FT NCHO FT RI	PROTIONING DESIN THURSDAY	ECTIO G PRO E VIC E VIC HEIGH L- 104 LLOW I: HORIN TO STA	ON FO OVISI OR CC INITY ITS. 41+30 /ING	OR TEMP ON. NSTRUC C OF SHO ±, 38 FT ASSUME R TEMPO I -L- 1042	PORARY CTION, DRING RIGHT, TO ED SOIL ORARY +44 ±, 38 FT

LOCATI NOTES G 4 СM 02 /2/2021 :\Traff

SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION MICHAEL BAKER INTERNATIONAL EALED BY A PROFESSIONAL ENGINEER, STACIE E. MITCHELL, LICENSE #032125.

| HEIGHT = 20.07 FT

ET TMP-10E ANTITY = 1527.98 SF .0′ RT

.5′ RT

ANTITY = 1530.31 SF

ET TMP-10E

UM HEIGHT = 20.09 FT

AREA 1

TEMPORARY SHORING NOTES/LOCATIONS

SEE	<u>сне</u>
TEMPORARY SHORING LOCATION NO. 2-9 ESTIMATED	
-L- STA. 1258+74, 41.0' LT TO -L- STA. 1259+29, LENGTH=55' AVERAGE HEIGHT = 8.41 FT MAXIMUN	41 VIHE
SHORING LOCATION NO. 2-9	
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION	OR TH ION.
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CO SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	ONSTI Y OF S
DESIGN TEMPORARY SHORING FROM STATION -L- 1258+74 STATION -L- 1259+29 ±, 41 FT LEFT, FOR THE FOLLOWING A PARAMETERS AND GROUNDWATER ELEVATION:	↓±, 41 SSUN
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 190 FT	
DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORI TEMPORARY SHORING FROM STATION -L- 1258+74 \pm , 41 FT -L- 1259+29 \pm , 41 FT LEFT.	NG F LEFT
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPOR TEMPORARY SHORING FROM STATION -L- $1258+74 \pm$, $41 FT$ -L- $1259+29 \pm$, $41 FT$ LEFT. SEE GEOTECHNICAL STANDARD FOR STANDARD TEMPORARY WALLS.	ARY LEFT DETA
WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAP REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WA	'S WI 3 BAC FILLS ALLS.
TEMPORARY SHORING LOCATION NO.2-10 ESTIMATE -L- STA. 1258+74, 41.0' RT TO -L- STA. 1259+29, LENCTHEEE'	SHE DQ 41
SHOPING LOCATION NO 2.10	ΠE
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FO)R TE
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THE TEMPORARY SHORIN GEOTECHNICAL ENGINEE ON SEPTEMBER 4, 2020	IG N ER.) AN

1/2/2021 (*\Traffic\Transportation Management\PLAN SHEETS\1-5986B TMP 02G6 A2-3 TEMPORARY SHORING NOTES LOCATIONS.

HEET TWP-19E SEE SHEET DUANTITY - 394 SF H. O' LT H.O' LT HEIST - 11.10 FT TEMPORARY SHORING LOCATION NO.2-11 TEMPORARY NORING LOCATION NO.2-11 TEMPORARY NORING LOCATION NO.2-11 TEMPORARY NORING LOCATION NO.2-11 TEMPORARY NORING CONTROL AND PROTIVE PROJECTION FOR IEM STRUCTION STRUCTION		1
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TUMPORARY N IN I		SHORING LOCATION NO. 2-11
STRUCTION, STRUCT	. TEMPORARY N.	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
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WITH THT ACKETIL OR LS. WHICHEVER WITH RACKETIL FOR BEIDGE APPROACH FILLS ON PACKETIL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS ON BACKETIL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS ON BACKETIL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS ON BETTER. IN THE REINFORCED ZONE OF TEMPORARY WALLS. HEET TMP-19E SEE SHEET QUANTITY = 394 SF ESTIMATED QUA 1.0' RT EL- STA. 1261+39, 41.0' RT TO -L- STA. 1261+94, 41.0' LENGTH-55' AVERAGE HEIGHT = 8.41 FT TEMPORARY SHORING LOCATION NO.2-12 TEMPORARY SHORING LOCATION NO.2-13 TEMPORARY ICONTROLOCATION NO.2-13 TEMPORARY SHORING COCATION NO.2-13 TEMPORARY FOR TEMPORARY SHORING PROVISION. BEFORE BEGINNED TEMPORARY SHORING PROVISION. BEFORE BEGINNED TEMPORARY SHORING PROVISION. BEFORE BEGINNED COCATION NO.2-13 DOSITIVE PROTECTION FOR TEMP SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. SHORING COLLION, FSHORING SHORING FROM STATION -1.1261-39 ±, 41 FT SHORING ARGONING FROM STATION -1.1261-39 ±, 41 FT SUMED SOIL DESIGN TEMPORARY SHORING FROM STATION -1.1261-39 ±, 41 FT SUMED SOIL UNIT WEIGHT (M. 120) FOR TRENTON ACTION STATION -1.1261-39 ±, 41 FT RIGHT, STATION -1.1261-91 ±, 41 FT RIGHT, STATION -1.	RY WALL FOR EFT, TO STATION ETAIL NO. 1801.02	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WA TEMPORARY SHORING FROM STATION -L- 1261+39 ±, 41 FT LEFT, T -L- 1261+94 ±, 41 FT LEFT. SEE GEOTECHNICAL STANDARD DETAIL FOR STANDARD TEMPORARY WALLS.
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NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION MICHAEL BAKER INTERNATIONAL AND SEALED BY A PROFESSIONAL ENGINEER, STACIE E. MITCHELL, LICENSE #032125.

	TEMPOF	RARY	SHOR	ING	LOCAT	ION	NO . 2-	13	ESTI	SEE MATED	SHE QL
-L- LEN	- STA. NGTH=8:	1219 2'	9+95, AVER/	36. AGE	O'RT HEIGHT	ТО Г =	-L- 3	STA. 7 FT	1220 MAX)+77, XIMUN	36 1 HE
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		ARY	SHORI	NG I	_OCATI	ON TO	NO . 2-		ESTIN	SEE S IATED	
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	P P S A C F R E H	TATIC PARAM UN FRI CO GR DO NOT STATIC AT THE GEOTE FROM S RIGHT HEIGHT	IT WEIG IT WEIG IT WEIG ICTION HESION OUNDW I USE A ON -L- 12 CONTH CHNICA STATIO EERED O IS EXCI	ORAR 220+77 AND (GHT (ANGI (c) = VATEI (C) = VATEI 219+95 RACT(AL STA N -L- 1 FOR CANTI EEDIN	Y SHORID $7 \pm$, 30 FT GROUND 7 = 120 PO $2 E (\phi) = 3$ 0 PSF R ELEVA PORARY 5 \pm , 30 FT OR'S OPT ANDARD 219+95 \pm TEMPOR ILEVERE G 12 FEE	NG FI RIGH WAT CF 0 DE TION WAL RIGH TION, DET. 30 F ARY D SH T.	ROM ST IT, FOR ER ELE GREES = 228 F L FOR T IT, TO S USE ST AIL NO T RIGH SHORI ORING	T THE F VATIO T T T T T TATIO TATIO TATIO T, TO S NG HE WILL I	N -L- 12 OLLOV ON: ORARY ON -L- 1 RD TEN 01, FOR STATIO IGHTS BE REQ	19+95 ± VING A SHORIN 220+77 MPORA TEMPC ON -L- 12 ABOVE UIRED	SSUN +, 30 RY S DRAF 220+7 12 F FOR

LOCATIONS NOTES 9 <u>г</u> /2/2021 :\Traff

EET TMP-22A UANTITY = 814 SF 6.0' RT EIGHT = 15.17 FT EMPORARY RUCTION, SHORING 6 FT RIGHT, TO UMED SOIL FOR HT, TO RY WALL FOR HT, TO NDARD DETAIL EET TMP-22A JANTITY = 814 SF .0′ RT IGHT = 15.17 FTMPORARY RUCTION, SHORING) FT RIGHT, TO JMED SOIL FROM 0 FT RIGHT. SHORING ARY SHORING +77 ±, 30 FT FEET.)R SHORING

TES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION MICHAEL BAKER INTERNATIONAL SEALED BY A PROFESSIONAL ENGINEER, STACIE E. MITCHELL, LICENSE #032125.

AREA 2

TEMPORARY SHORING NOTES/LOCATIONS

	TEMPORARY SHORING LOCATION NO.3-1 SEE SHEET TMP-28A ESTIMATED QUANTITY = 307 5
- L L E	- STA. 1294+56, 12.0' LT TO -L- STA. 1295+22, 12.0' LT NGTH=66' AVERAGE HEIGHT = 4.85 FT MAXIMUM HEIGHT = 5.31 F
	SHORING LOCATION NO. 3-1
	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
	DESIGN TEMPORARY SHORING FROM STATION -L- 1294+56 \pm , 12 FT LEFT, TO STATION -L- 1295+22 \pm , 12 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
	UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 236 FT
	DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT LEFT, TO STATION -L- 1295+22 ±, 12 FT LEFT.
	AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- $1294+56 \pm$, 12 FT LEFT, TO STATION -L- $1295+22 \pm$, 12 FT LEFT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.
	TEMPOBABY SHOBING LOCATION NO. 3-2 SEE SHEET TMP-28A
_ 1	$= STA = 1294 + 56 = 12 0' \text{ BT TO = L = STA = 1295 + 22 = 12 0' \text{ BT}}$
LE	NGTH=66' AVERAGE HEIGHT = 4.85 FT MAXIMUM HEIGHT = 5.31 FT
	SHORING LOCATION NO. 3-2
	FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
	BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
	DESIGN TEMPORARY SHORING FROM STATION -L- $1294+56 \pm$, 12 FT RIGHT, TO STATION -L- $1295+22 \pm$, 12 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
	DESIGN TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 236 FT
	DESIGN TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (φ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 236 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT.
	 DESIGN TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (φ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 236 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, TO STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, FO STATION -L- 1295+25 ±, 12 FT RIGHT, FO STATION -L- 1295 FT STANDARD DETAIL FOR TEMPORARY SHOR FOR TEMPORARY SHOR FOR TEMPORARY SHOR FOR TEMPORARY SHOR FOR FOR FOR FOR FOR FOR FOR FOR FOR F
	 DESIGN TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION: UNIT WEIGHT (y) = 120 PCF FRICTION ANGLE (\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$= 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 236 FT DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1294+56 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 1295+22 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, TO STATION -L- 1295+22 ±, 12 FT RIGHT, NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

4/2/2021 R:\Traffic\Transportation Management\PLAN SHEETS\I-5986B TMP 02G8 A3-ITEMPORARY SHORING NOTES LOCATIONS.d

TES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION MICHAEL BAKER INTERNATIONAL SEALED BY A PROFESSIONAL ENGINEER, STACIE E. MITCHELL, LICENSE #032125.

AREA 3

TEMPORARY SHORING NOTES/LOCATIONS

LENGTH=120.13' AVERAGE HEIGHT = 18.87 FT MAXIMUM HEIGHT = 26.20 FT	LENGTH=28.84' AVERAGE HEIGHT = 8.00 FT
SHORING LOCATION NO. 5-1	SHORING LOCATION NO. 5-3
SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.	FOR TEMPORARY SHORING AND POSITIVE PROTEC SHORING, SEE PLANS AND TEMPORARY SHORING
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	BEFORE BEGINNING TEMPORARY SHORING DESIG SURVEY EXISTING GROUND ELEVATIONS IN THE V
LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING	DESIGN TEMPORARY SHORING FROM STATION -L- STATION -L- 1391+84 ±, 28 FT LEFT, FOR THE FOLLO PARAMETERS AND GROUNDWATER ELEVATION:
CONSTRUCTION. DESIGN TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER FLEVATION:	UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF GROUNDWATER ELEVATION = 173 FT
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF CPOUNDWATER ELEVATION = 173 ET	DO NOT USE CANTILEVER, BRACED OR ANCHOREI TEMPORARY SHORING FROM STATION -L- 1391+55 -L- 1391+84 ±, 28 FT LEFT.
DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT.	AT THE CONTRACTOR'S OPTION, USE STANDARD T TEMPORARY SHORING FROM STATION -L- 1391+55 -L- 1391+84 ±, 28 FT LEFT. SEE GEOTECHNICAL STAT FOR STANDARD TEMPORARY WALLS.
IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.	WHEN BACKFILL FOR BRIDGE APPROACH FILLS OF REINFORCED ZONE OF TEMPORARY WALLS, USE S BACKFILL MATERIAL REQUIRED FOR BRIDGE APPI IS BETTER, IN THE REINFORCED ZONE OF TEMPOR
AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FOR TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT EXCEPT FOR TEMPORARY SHORING HEIGHTS ABOVE 12 FEET. ENGINEERED CANTILEVERED SHORING WILL BE REQUIRED FOR SHORING HEIGHTS EXCEEDING 12 FEET.	TEMPORARY SHORING LOCATION NO.5-4 -L- STA. 1390+71, 22.5' RT TO -L- STA. 139 LENGTH=124.13' AVERAGE HEIGHT = 19.54 FT
TEMPORARY SHORING LOCATION NO.5-2 SEE SHEET TMP-42A	SHORING LOCATION NO. 5-4 FOR TEMPORARY SHORING AND POSITIVE PROTEC
-L- STA. 1390+21, 28.0' LT TO -L- STA. 1390+50, 28.0' LT LENGTH=28.84' AVERAGE HEIGHT = 8.02 FT MAXIMUM HEIGHT = 9.63 FT	BEFORE BEGINNING TEMPORARY SHORING P BURVEY EXISTING GROUND ELEVATIONS IN THE V
SHORING LOCATION NO. 5-2	LIMITED SUBSURFACE INFORMATION IS AVAILABL TEMPORARY SHORING FROM STATION -L - 1390+71 +
FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION	STATION -L- 1391+95 ±, 22.5 FT RIGHT. THE INFORMATEMPORARY SHORING DESIGN WAS ASSUMED AND APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCONSTRUCTION
SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.	DESIGN TEMPORARY SHORING FROM STATION -L-1 TO STATION -L-1391+95 ±, 22.5 FT RIGHT, FOR THE F
STATION -L- 1390+50 ±, 28 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:	UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES
UNIT WEIGHT (γ) = 120 PCF FRICTION ANGLE (ϕ) = 30 DEGREES COHESION (c) = 0 PSF CROUNDWATER ELEVATION = 172 ET	COHESION (c) = 0 PSF $GROUNDWATER ELEVATION = 173 FT$ $DO NOT USE A TEMPORARY WALL FOR TEMPORARY$
DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L - 1390+21 + 28 FT LEFT TO STATION	IT MAY RE PREFERRED TO USE A TEMPODADY SOU
-L- 1390+50 ±, 28 FT LEFT. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION L 1300+21 ± 28 FT LEFT TO STATION	TEMPORARY SHORING FROM STATION -L- 1390+71 ± STATION -L- 1391+95 ±, 22.5 FT RIGHT. FOR TEMPORA SEE TEMPORARY SOIL NAIL WALLS PROVISION.
-L- 1390+50 ±, 28 FT LEFT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.	AT THE CONTRACTOR'S OPTION, USE STANDARD T GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FO FROM STATION -L- 1390+71 ±, 22.5 FT RIGHT, TO STA
WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.	RIGHT EXCEPT FOR TEMPORARY SHORING HEIGHT ENGINEERED CANTILEVERED SHORING WILL BE RE HEIGHTS EXCEEDING 12 FEET.

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	PROJECT REFERENCE NO.	SHEET NO.
	I - 5878 / I - 5883 / I - 5986B	TMP-2G9
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T TMP-42A	George Karageorge	
TITY = 207.60 SF		C C E
' LT	PGF M. KARP	COTIN COTIN M
IGHT = 9.59 FT		4/8/2021
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	NOTES/LOCATIC	NS