

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R-4758	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
SWAIN AND JACKSON COUNTIES**

R-4758

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
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 PANELS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS

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TCP-10	Advance Work Zone and Detour Signage - Downtown
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TCP-12	Advance Work Zone and Detour Signage - US 19 Near Casino
PM-1	Final Pavement Marking Plan Station 12+21.61 to 24+00
PM-2	Final Pavement Marking Plan Station 24+00 to 30+25
PM-3	Final Pavement Marking Plan US 19 & Whitewater Intersection Detail

TEMP PAVEMENT MARKING SCHEDULE

Paint 4"	
White Edgeline	583'
10 ft. White Skipline	332'
Yellow Double Centerline	2519'
Total =	3434'

Paint 24"	
White Stop Bar	66'
Total =	66'

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

06-NOV-2006 13:52 \\dl4cadsrv\dgc\rdy\Cherokee\gap\us-19\gap\dwg\traffic control\R4758.dcd\4-tc_tcp_tsh.dgn Richard L. Hardison At D:\CAD\208590

TIP PROJECT:

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. DIVISION 14 D.D.C.
DATE: 11-6-06	
SEAL	Richard L. Hardison, PLS, PE TRAFFIC CONTROL PROJECT ENGINEER
	Richard L. Hardison, PLS, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER

GENERAL NOTES

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

Time Restrictions

- A. DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:**
- US 19 TUESDAY THRU FRIDAY 7:30 A.M. TO 7:00 P.M.
 - SATURDAY 7:30 A.M. TO MONDAY 7:00 P.M.

- B. DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:**

ROAD NAME

1. US 19
2. WHITE WATER DRIVE

HOLIDAYS/SPECIAL EVENTS

1. For unexpected occurrence that creates unusually high traffic volumes, as directed by the Engineer.
2. For New Year's Day, between the hours of 7:30 a.m. December 31st and 7:00 p.m. January 2nd. If New Year's Day is on Saturday or Sunday, then until 7:00 p.m. the following Tuesday.
3. For Easter, between the hours of 7:30 a.m. Thursday and 7:00 p.m. Monday.
4. For Memorial Day, between the hours of 7:30 a.m. Friday and 7:00 p.m. Tuesday.
5. For Independence Day, between the hours of 7:30 a.m. the day before Independence Day and 7:00 p.m. the day after Independence Day. If Independence Day is on a Saturday or Sunday, then between the hours of 7:30 a.m. the Thursday before Independence Day and 7:00 p.m. the Tuesday after Independence Day.
6. For Labor Day, between the hours of 7:30 a.m. Friday and 7:00 p.m. Tuesday.
7. For Thanksgiving Day, between the hours of 7:30 a.m. Tuesday and 7:00 p.m. Monday.
8. For Christmas, between the hours of 7:30 a.m. the Friday before the week of Christmas Day and 7:00 p.m. the following Monday after the week of Christmas Day.
9. For POW-WOW, between the hours of 7:30 a.m. the Friday before the weekend of POW-WOW and 7:00 p.m. the following Monday after the weekend of POW-WOW.
10. For CHILDREN'S TROUT DERBY, between the hours of 7:30 a.m. the first Friday of August and 7:00 p.m. the first Saturday of August.
11. For CHEROKEE INDIAN FAIR, between the hours of 7:30 a.m. the first Friday of October and 7:00 p.m. the following Monday.
12. For LEAF SEASON, between the hours of 7:30 a.m. Friday and 7:00 p.m. the following Monday for all weekends in October and the first weekend in November.
13. For CHEROKEE CHRISTMAS PARADE, from four (4) hours before the start of the CHEROKEE CHRISTMAS PARADE on the first Saturday of December until two (2) hours after the end of the CHEROKEE CHRISTMAS PARADE.

- C. THE OFFSITE DETOUR MAY BE USED TO SHIFT TRAFFIC CONTROL DEVICES (I.E. PORTABLE CONCRETE BARRIER) IN PHASE III STEP 1. THE GAP SHALL BE REOPENED TO TRAFFIC BY 7:30 AM THE FOLLOWING MORNING.**

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D. WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.**

- E. WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.**

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- F. WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.**

- G. DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.**

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H. DO NOT EXCEED A DIFFERENCE OF 1.5 inches IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.**

TRAFFIC PATTERN ALTERATIONS

- I. NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.**

SIGNING

- J. INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.**

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

- K. PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.**

- L. THE CONTRACTOR WILL COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.**

- M. ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.**

- N. INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA.**

TRAFFIC BARRIER

- O. INSTALL MOVABLE/PORTABLE CONCRETE BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE MOVABLE/PORTABLE CONCRETE BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.**

ONCE MOVABLE/PORTABLE CONCRETE BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE MOVABLE/PORTABLE CONCRETE BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET MOVABLE/PORTABLE CONCRETE BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

- P. 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 IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.**

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:

POSTED SPEED LIMIT	MINIMUM OFFSET
LESS THAN 50 MPH	20 FT
50 MPH or HIGHER	30 FT

INSTALL MOVABLE/PORTABLE CONCRETE BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE MOVABLE/PORTABLE CONCRETE 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 CLOSED THE SECTION OF THE ROADWAY UNTIL THE BARRIER CAN BE PLACED OR AFTER BARRIER IS REMOVED.

TRAFFIC CONTROL DEVICES

- Q. SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.**

- R. PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.**

- S. PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.**

PAVEMENT MARKINGS AND MARKERS

- T. INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:**

ROAD NAME	MARKING	MARKER
U.S. 19	THERMOPLASTIC	NONE

- U. INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:**

ROAD NAME	MARKING	MARKER
U.S. 19	PAINT	NONE

- V. TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.**

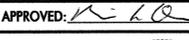
- W. REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF THE DAY.**

- X. PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON AMPLE DRYING TIME, AS DETERMINED BY THE ENGINEER.**

LOCAL NOTES

1. THE CONTRACTOR ON THIS PROJECT SHALL COOPERATE WITH THE CONTRACTOR ON PROJECT B-4696 WORKING WITHIN OR ADJACENT TO THE LIMITS OF THIS PROJECT TO THE EXTENT THAT THE WORK CAN BE CARRIED OUT TO THE BEST ADVANTAGE OF ALL CONCERNED.

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PROJECT PHASING

Phase I

Step 1: Install advance work zone warning signs and off site detour signage in accordance with TCP-10, TCP-11, and TCP-12. Install Traffic Control for the approach to the intersection with White Water Drive as shown on TCP-8 (TCP-8 is common to all phases).

Step 2: Maintaining present traffic pattern through Cherokee Gap, extend existing portable concrete barrier (Sta 14+69 to 17+25 Left) to Sta 18+00 Left along the existing edge line on Southbound lane as shown on TCP-4. Use drums from Sta 18+00 to 19+00 Left. Maintain traffic on Temporary Driveway at Sta 18+40 left. Remove Gabion Baskets. Construct Retaining Wall #1 and Retaining Wall #2. Extend Existing Concrete Barrier (Sta 22+50 to 27+60) along existing edge line on northbound lane to Sta 21+00 as shown on TCP-4. Remove Gabion Baskets. Begin drilling operations. Using the offsite detour, close the gap each night for blasting operations (no earlier than 7 PM). Remove debris from the traveled way by 7 AM and reopen the Gap to traffic not later than 7:30 AM. Cover detour signage when detour is not in operation.

Step 3: Upon Completion of construction of Retaining Walls #1 and #2 Remove portable concrete barrier at Sta 15+05 to 18+00 and drums from Sta 18+00 to 19+00. Place Drums at both ends of temporary driveway at Sta 18+40 Left to close the driveway.

Step 4: Using roadway standard drawing 1101.02 and flaggers, perform asphalt pavement milling within the limits and depths shown on the typical sections and place temporary pavement markings in accordance with TCP-5 and TCP-8.

Phase II

Step 1: Set Phase II traffic control scheme as shown on TCP-5. Using the offsite detour, close the gap to traffic each night for blasting operations. Remove all debris from the traveled way and reopen the gap to traffic no later than 7:30 AM each morning (drilling may be conducted during the day). Place through traffic on the two north lanes of US 19 through Cherokee Gap. Cover offsite detour signage while detour is not being used. Reconstruct and realign North bound lanes of US 19 from Sta 17+00 to 27+50. Construct retaining wall #3, rock fall wall, drainage structures, guardrail, and lighting.

Step 2: Using flaggers at the entry/exit point of the portable concrete barrier, place all pavement except the final 2" of the surface course. Place temporary pavement marking and work zone signage in accordance with TCP-6 and TCP-7.

Phase III

Step 1: Using the offside detour, close Cherokee Gap. Install traffic control as shown on sheets TCP-6 and TCP-7. Place through traffic on US 19 on the two south lanes through Cherokee Gap.

Step 2: Reconstruct and realign the two north lanes from Sta 17+00 to 27+50 including removal and obliteration of the temporary driveway connection between Johnson Arch Road and US 19 at Sta 18+32 left. Construct 5 foot wide sidewalk, drainage structures, and lighting.

Step 3: Using offsite detour, close Cherokee Gap to traffic, remove portable concrete barrier and place temporary pavement markings for the north lanes. Open Gap to traffic.

Step 4: Using Roadway Standard Drawing 1101.02, and flaggers, place final 2.0 inches of surface course from Sta 12+20 to 27+85.

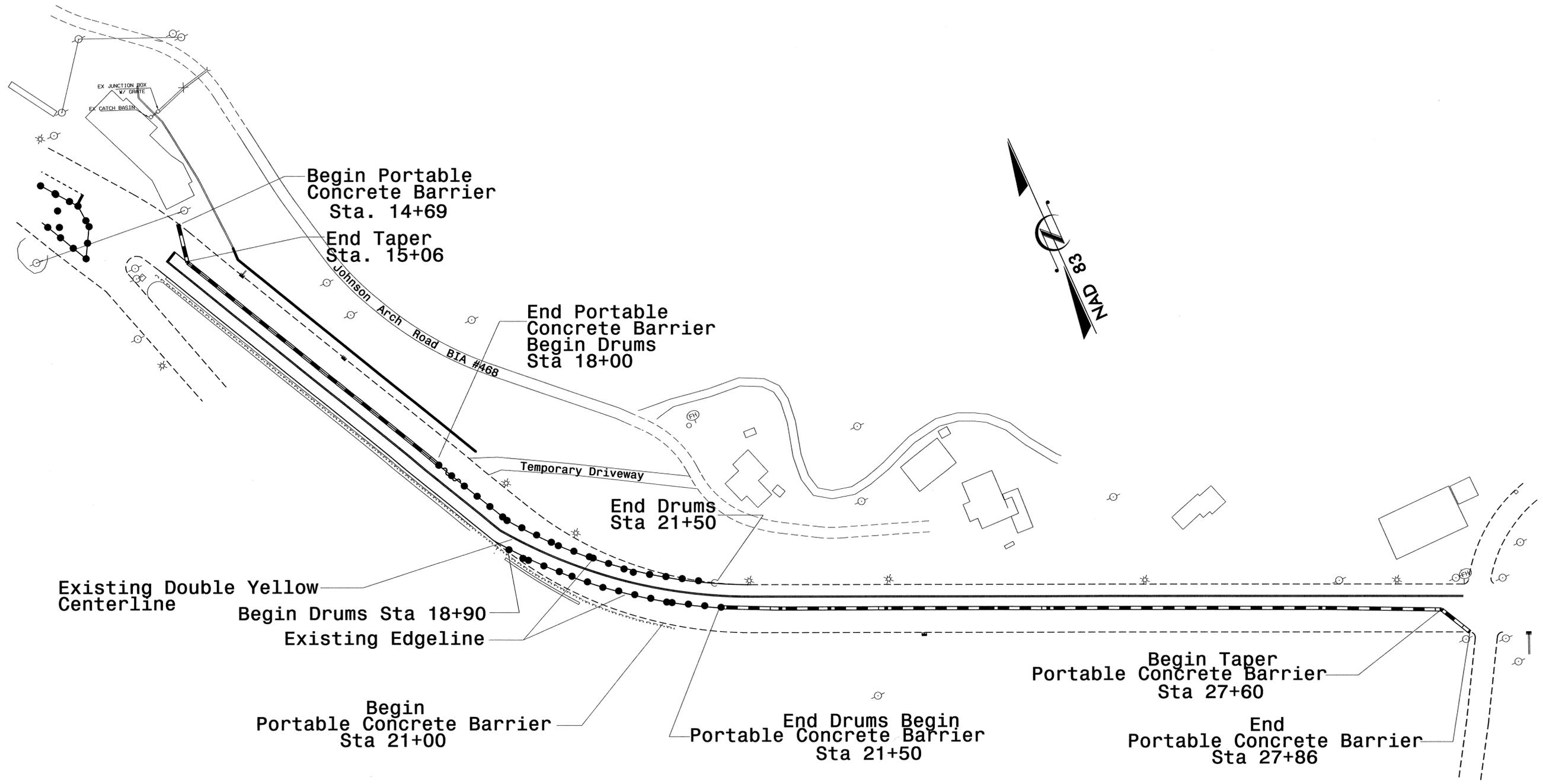
Phase IV

Step 1: Place permanent pavement markings for the entire project. I.A.W. Roadway Standard Drawings . Erect permanent signage on the entire project.

Step 2: Reinstall Traffic Signal detection loops at Sta 26+92 in east bound lanes. Re-enable all traffic signals disabled for the traffic control scheme. Open all lanes to traffic. Remove all work zone advance warning signs, and offsite detour signs.

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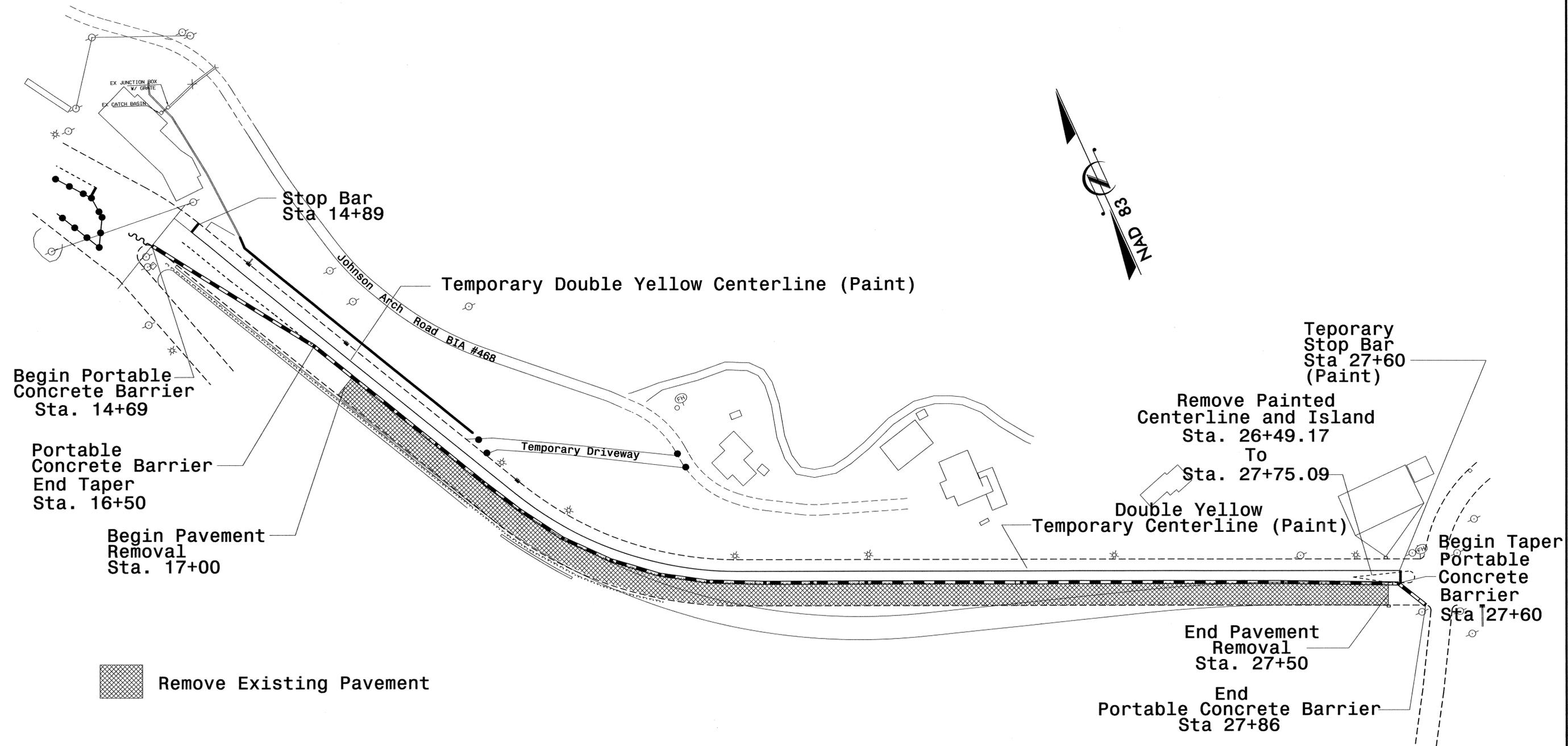
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Note: US 19 through Cherokee Gap Shall be closed during blasting operations. See offsite detour on Sheets TCP-9 through TCP-12

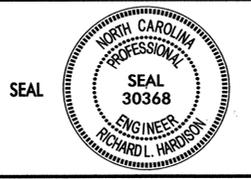
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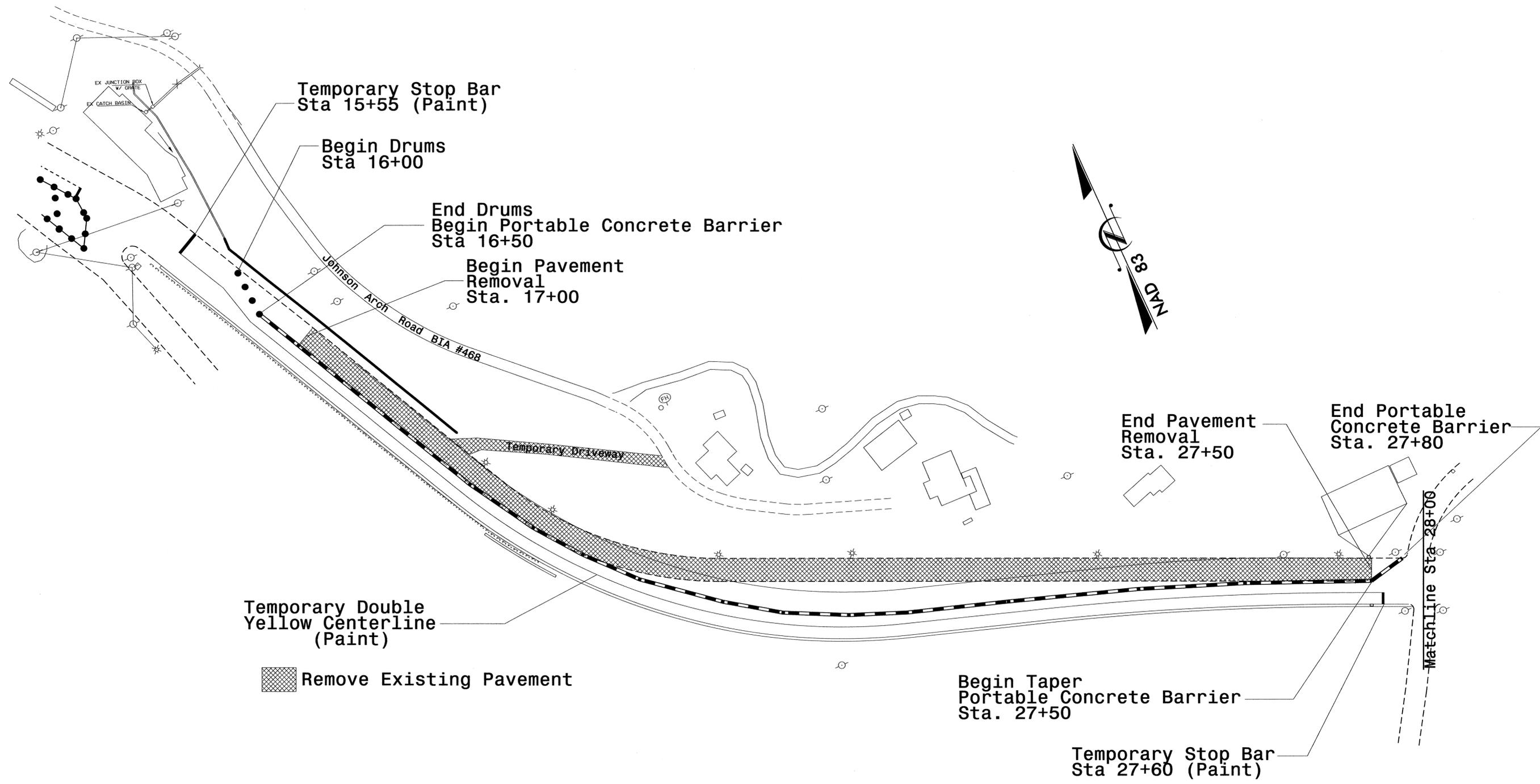


 Remove Existing Pavement

Note: US 19 through Cherokee Gap Shall be closed during blasting operations. See offsite detour on Sheets TCP-9 through TCP-12

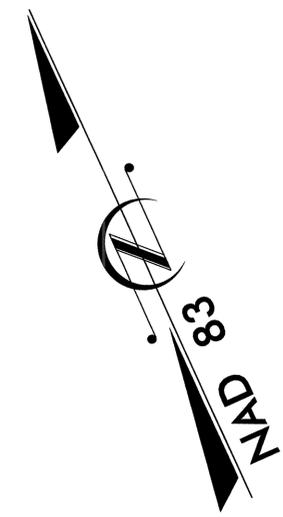
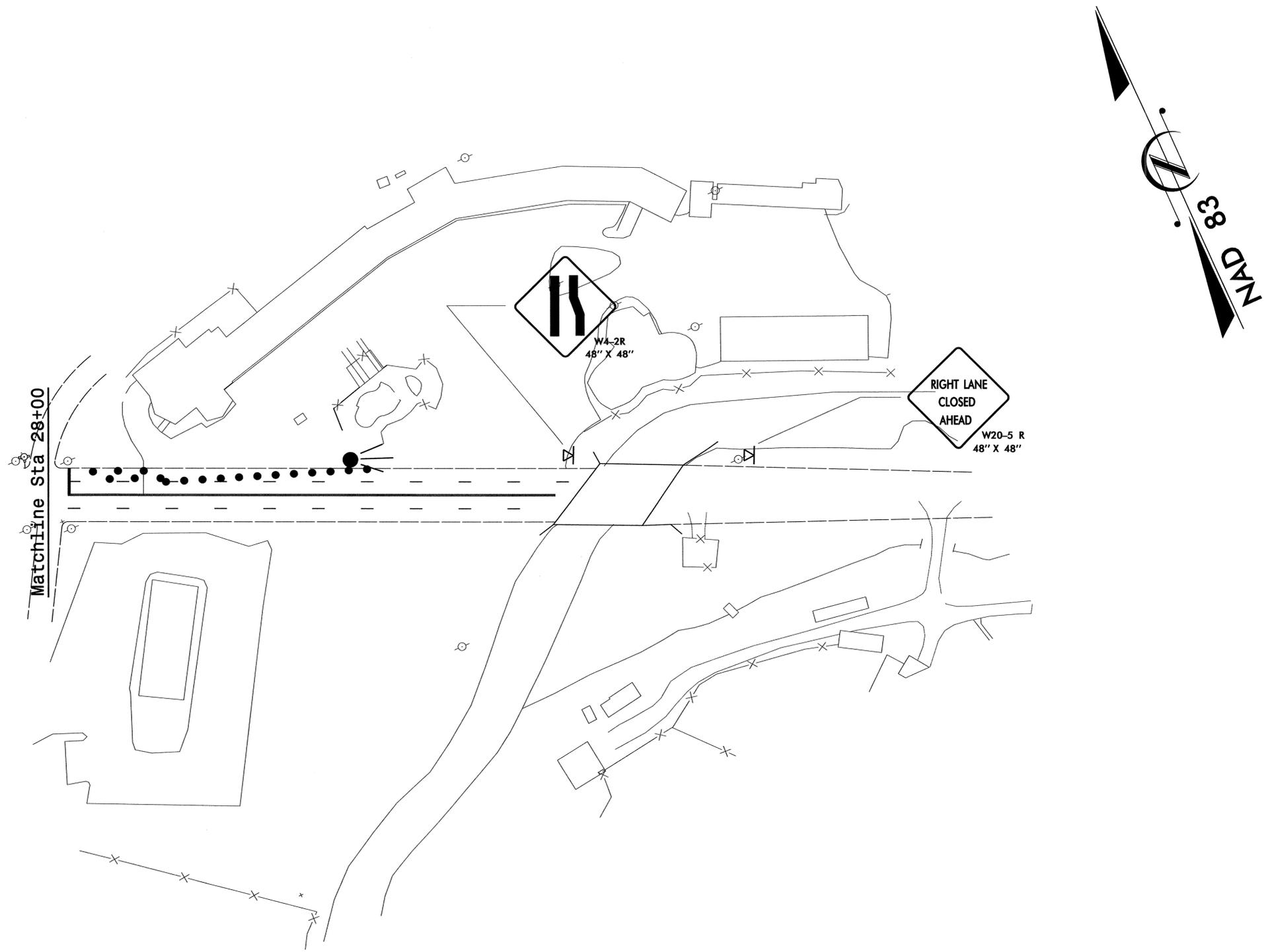
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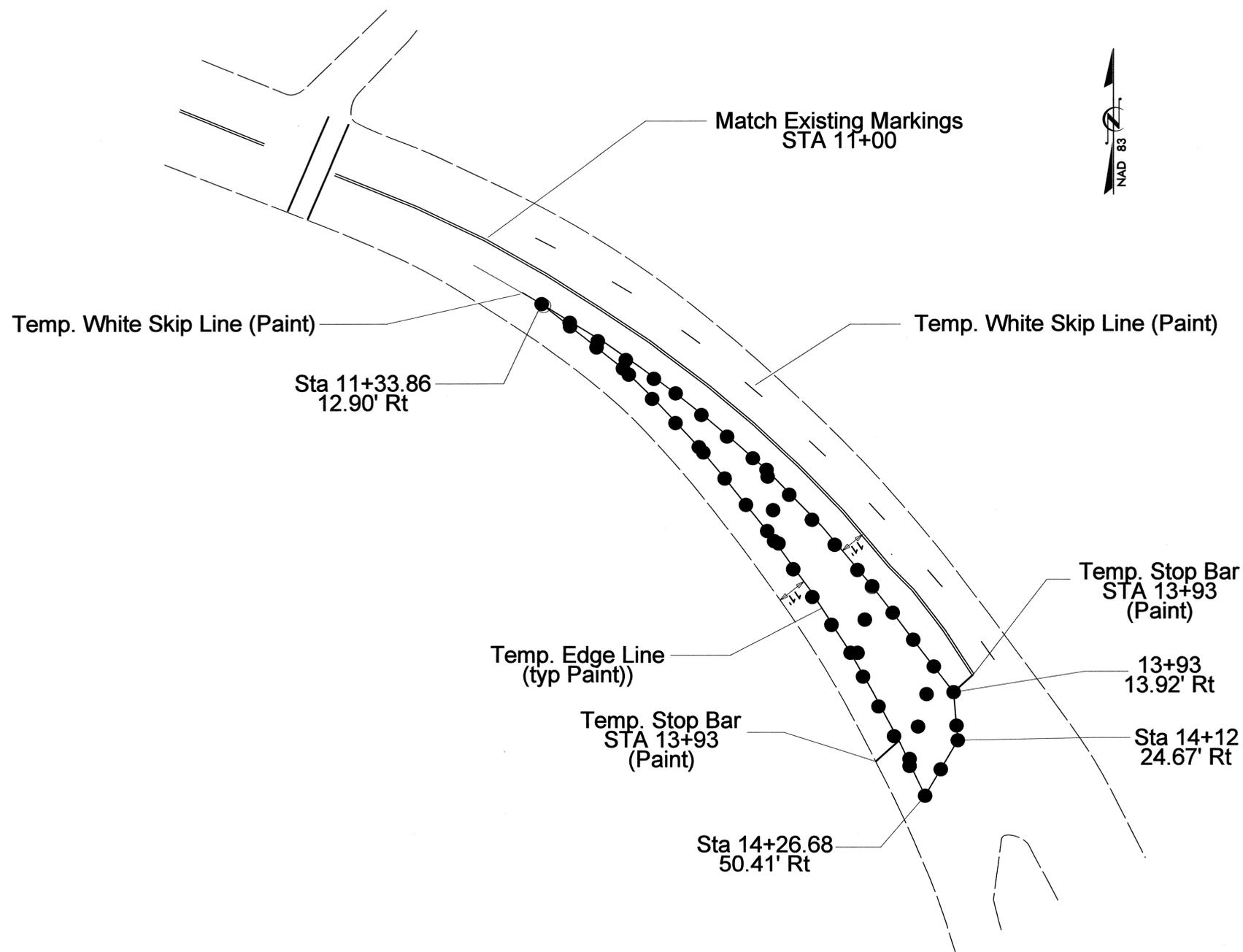
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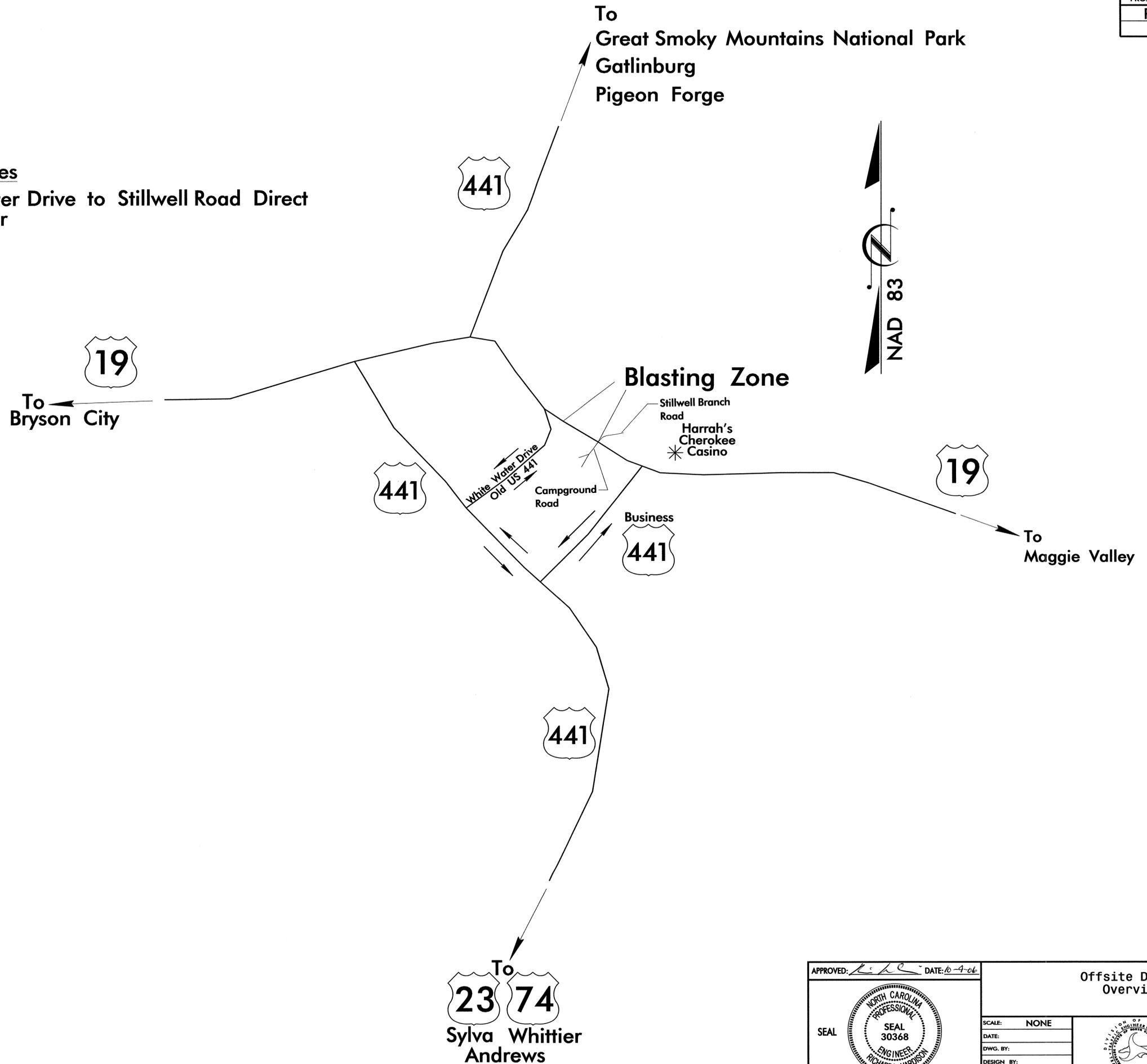
Notes: 1. All conflicting pavement markings shall be obliterated
 2. This Plan is common to both Phase I, II, and III.



APPROVED: <i>[Signature]</i> DATE: 10-4-06	Phase I, II, and III North Bound Approach To Whitewater Drive Intersection							
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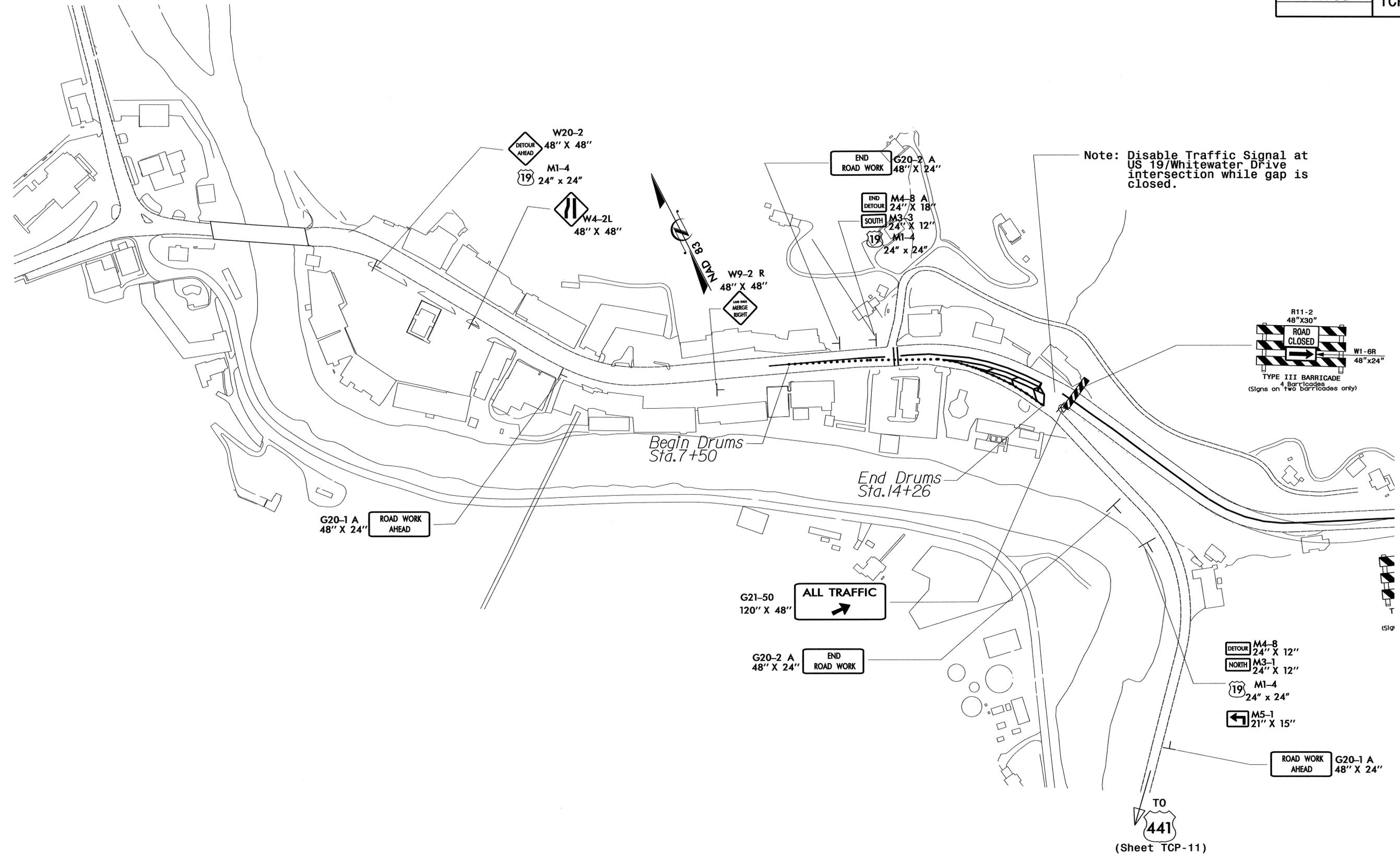
Detour Distances
 0.25 - White Water Drive to Stillwell Road Direct
 2.4 Mi - Via Detour



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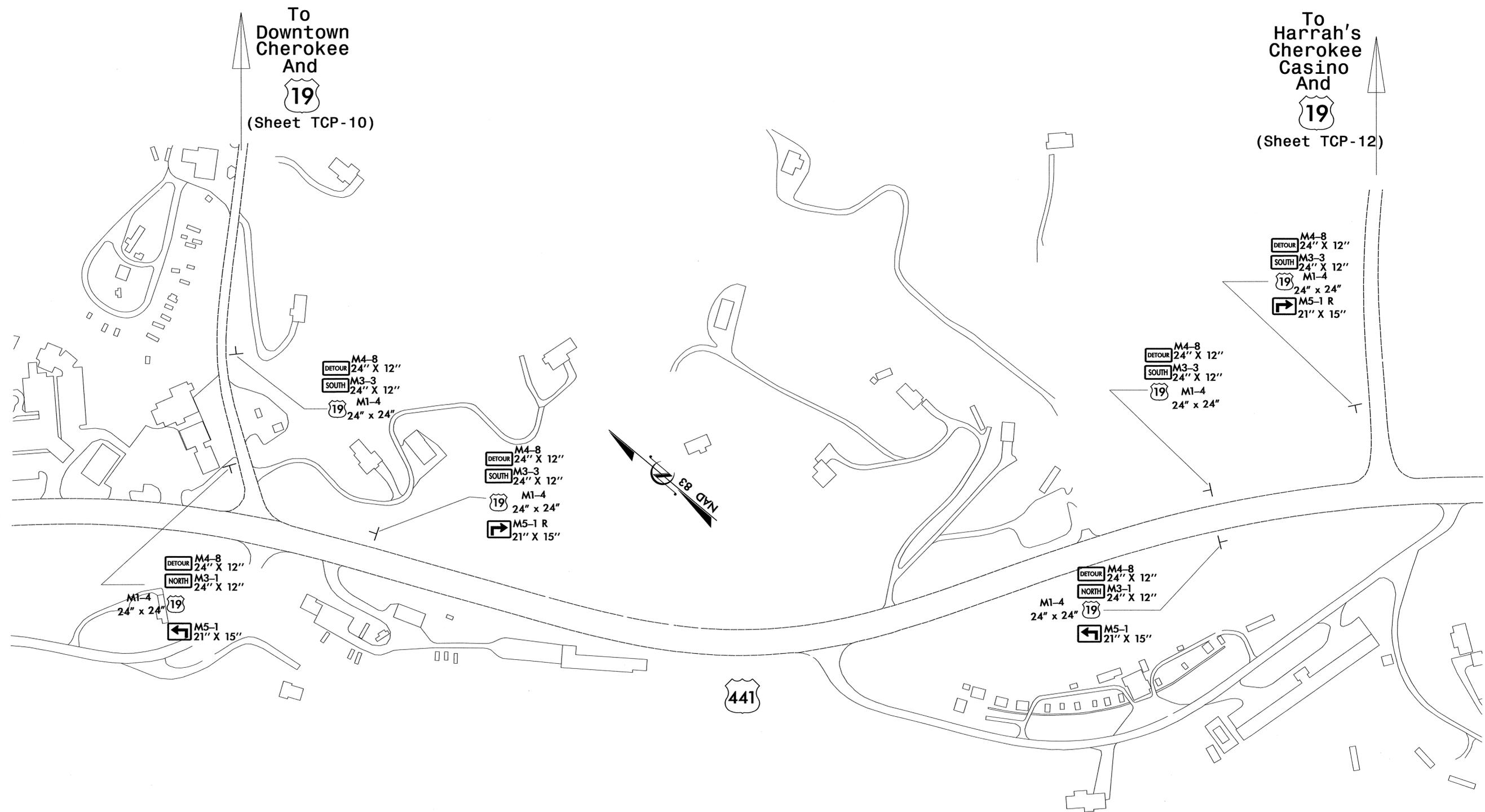
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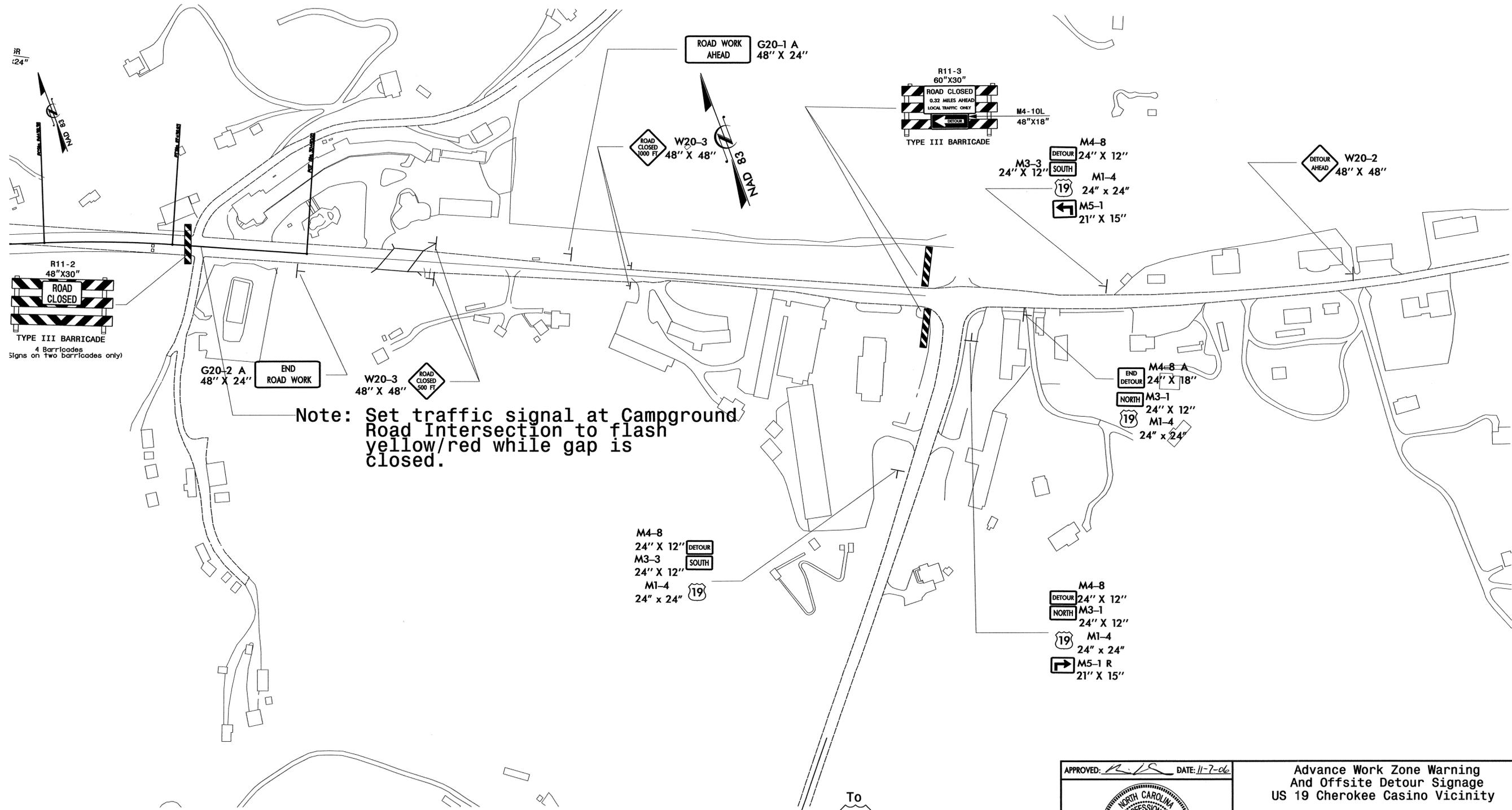


APPROVED: <i>[Signature]</i> DATE: 11-7-06	Advance Work Zone Warning And Offsite Detour Signage Downtown Cherokee								
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Note: Set traffic signal at Campground Road Intersection to flash yellow/red while gap is closed.

To

 (TCP-11)

APPROVED:	DATE: 11-7-06	Advance Work Zone Warning And Offsite Detour Signage US 19 Cherokee Casino Vicinity	
SCALE: NONE	REVISIONS		
DATE:			
DWG. BY:			
DESIGN BY:			
REVIEWED BY:		<small>CADD FILE R4758.dwg 14 sep 12.dgn</small>	