

INDEX OF SHEETS

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

SHELBY COUNTY

STATE ROUTE 176 (GETWELL ROAD) OVER WINCHESTER ROAD

STATE HIGHWAY NO. F.A.H.S. NO. N/A



TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.		
STATE PROJ. NO.		79059-4129-04



PROJECT LOCATION NO EQUATIONS
NO EXCLUSIONS

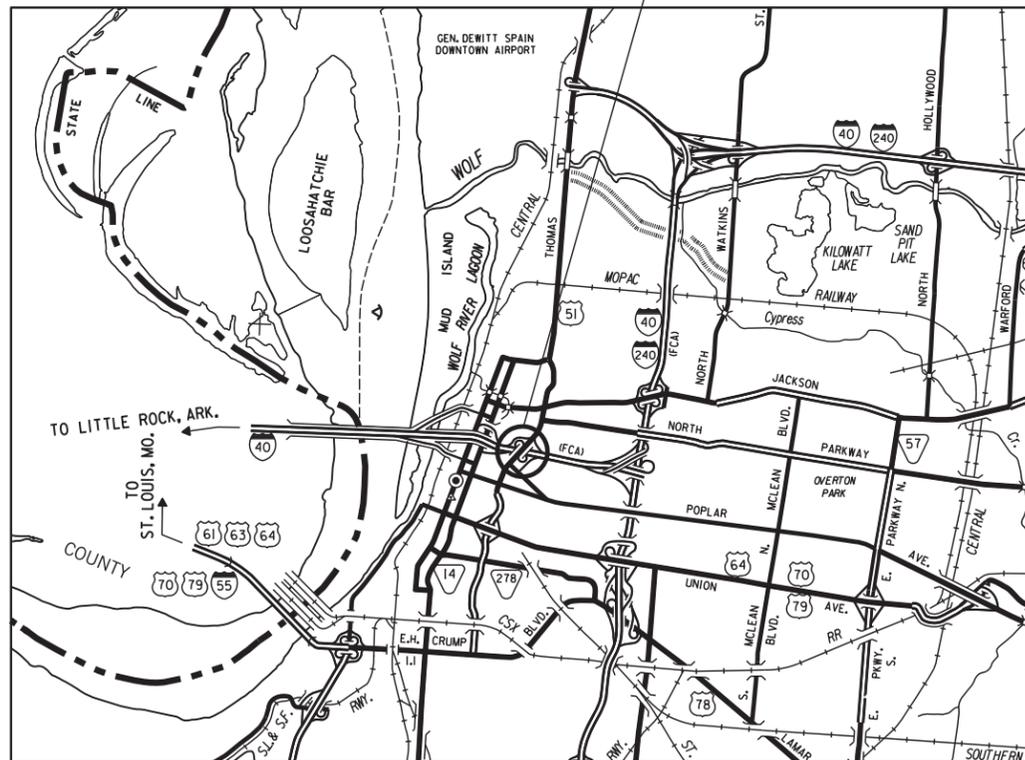
LIST OF STANDARD DRAWINGS

DWG. NO.	DATE OF LAST REV.	TITLE
T-FAB-1	5-27-97	FLASHING YELLOW ARROW BOARD
T-WZ-40	4-02-12	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-42	9-01-05	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS

LIST OF BRIDGE DRAWINGS

DWG. NO.	TITLE
BR-116-119	LAYOUT OF BRIDGE
BR-116-120	ESTIMATED QUANTITIES
BR-116-121	GENERAL NOTES
BR-116-122	FRAMING PLAN
BR-116-123	BEAM REPAIR DETAIL

BRIDGE ID. NO. 79-SR176-4.00



LIST OF REFERENCE DRAWINGS

(TO BE PRINTED WITH PLANS)

DWG. NO.	DATE OF LAST REV.	TITLE
M-385-157		BRIDGE LAYOUT
M-385-158		ABUTMENTS A & E
M-385-159		PIERS B, C & D
M-385-160		SUPERSTRUCTURE SLAB
M-385-161		SUPERSTRUCTURE SLAB, HANDRAIL AND LIGHTING DETAILS
M-385-162		PRESTRESSED BEAMS TYPE I
M-385-163		EMERGENCY BRIDGE REPAIR
M-385-164		EMERGENCY BRIDGE REPAIR

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

DES. ENG. SV. MIKE LAWSON
 DESIGNED BY PARSONS TRANSPORTATION GROUP
 DESIGNER J.B. McEL YEA CHECKED BY D.R. NOLTE
 P. E. NO. 79059-4219-04 PIN 118556.00

APPROVED: Paul D. Degges
 PAUL D. DEGGES, CHIEF ENGINEER

DATE: _____
 APPROVED: John Schroer
 JOHN SCHROER, COMMISSIONER

UNOFFICIAL
SET

NOT FOR
BIDDING

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
 DIVISION ADMINISTRATOR DATE

TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
○	FLEXIBLE CHANNELIZING DRUMS
⊥	CONSTRUCTION SIGN
⊕	FLEXIBLE DRUMS/TYPED "C" WARNING LIGHTS ATTACHED
→	TRAFFIC FLOW
⬢	FLASHING YELLOW ARROW BOARD TYPE "C" ARROW BOARD (96"x48") SEE STD. DWG. T-FAB-1
▨	WORK ZONE

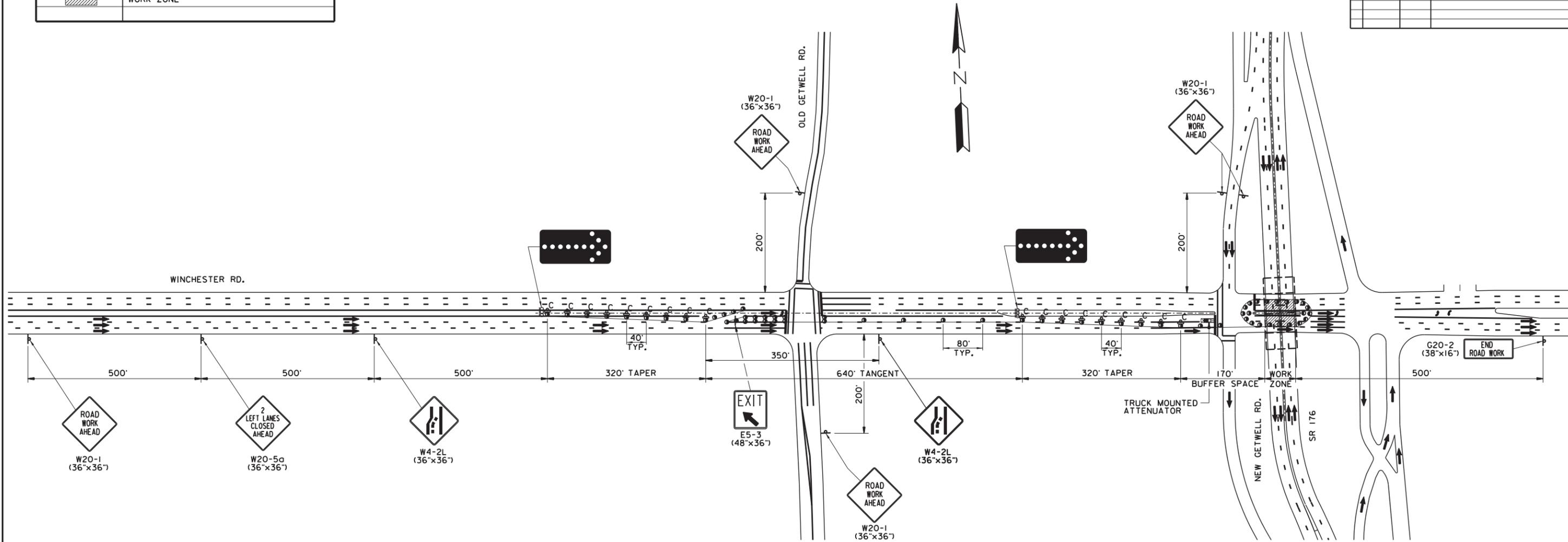
PHASE I AND PHASE III MAY BE DONE SIMULTANEOUSLY

WEEK END ONLY
FROM: FRIDAY 8:00 PM
TO: MONDAY 5:00 AM

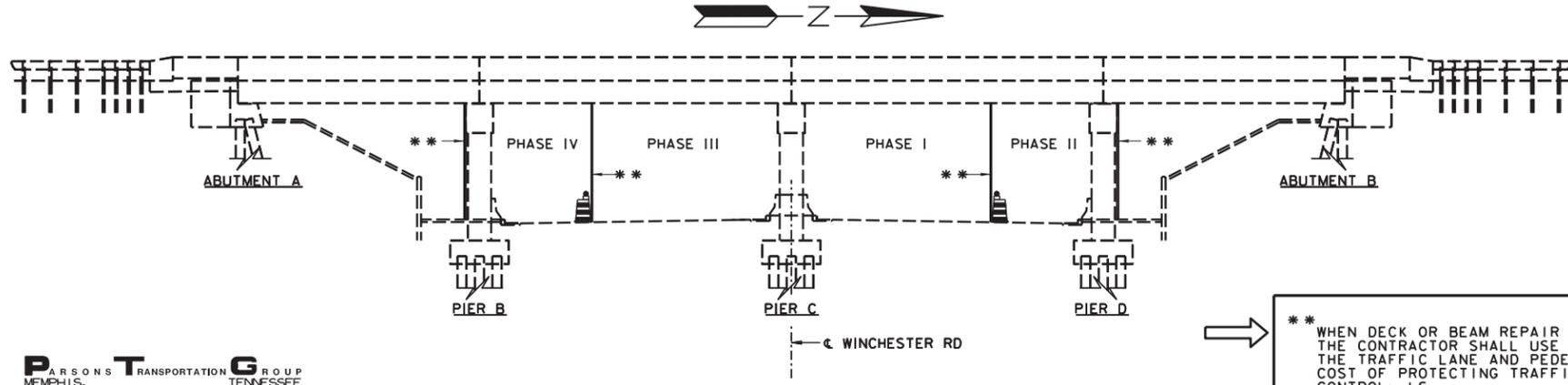
NOTE: SEE STANDARD DWG. T-WZ-42 FOR ADDITIONAL DETAILS.

PROJECT NO.	YEAR	SHEET NO.
79059-4219-04	2014	4

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



EASTBOUND WINCHESTER RD. - TWO LEFT LANES CLOSURE



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
TRAFFIC CONTROL - PHASE I

STATE ROUTE 176 (GETWELL RD)
OVER WINCHESTER RD

BRIDGE ID. NO. 79-SR176-4.00

SHELBY COUNTY
2014

** WHEN DECK OR BEAM REPAIR OR PATCHING IS ADJACENT TO A TRAFFIC LANE, THE CONTRACTOR SHALL USE TARPES OR OTHER MEANS NECESSARY TO PROTECT THE TRAFFIC LANE AND PEDESTRIAN TRAFFIC FROM FALLING DEBRIS. THE COST OF PROTECTING TRAFFIC IS TO BE INCLUDED IN ITEM 712-01 TRAFFIC CONTROL; LS.

PARSONS TRANSPORTATION GROUP
MEMPHIS, TENNESSEE

DESIGNED BY: D. RANDALL DATE: 9-2013
DRAWN BY: D. RANDALL DATE: 9-2013
SUPERVISED BY: D.R. NOLTE DATE: 9-2013
CHECKED BY: M.A. TAYLOR DATE: 11-2013

TN. D.O.T. ENGINEERING SUPERVISOR : M. LAWSON.

TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
○	FLEXIBLE CHANNELIZING DRUMS
⌋	CONSTRUCTION SIGN
⊕	FLEXIBLE DRUMS/TYPED "C" WARNING LIGHTS ATTACHED
→	TRAFFIC FLOW
●●●●●	FLASHING YELLOW ARROW BOARD TYPE "C" ARROW BOARD (96"x48") SEE STD. DWG. T-FAB-1
▨	WORK ZONE

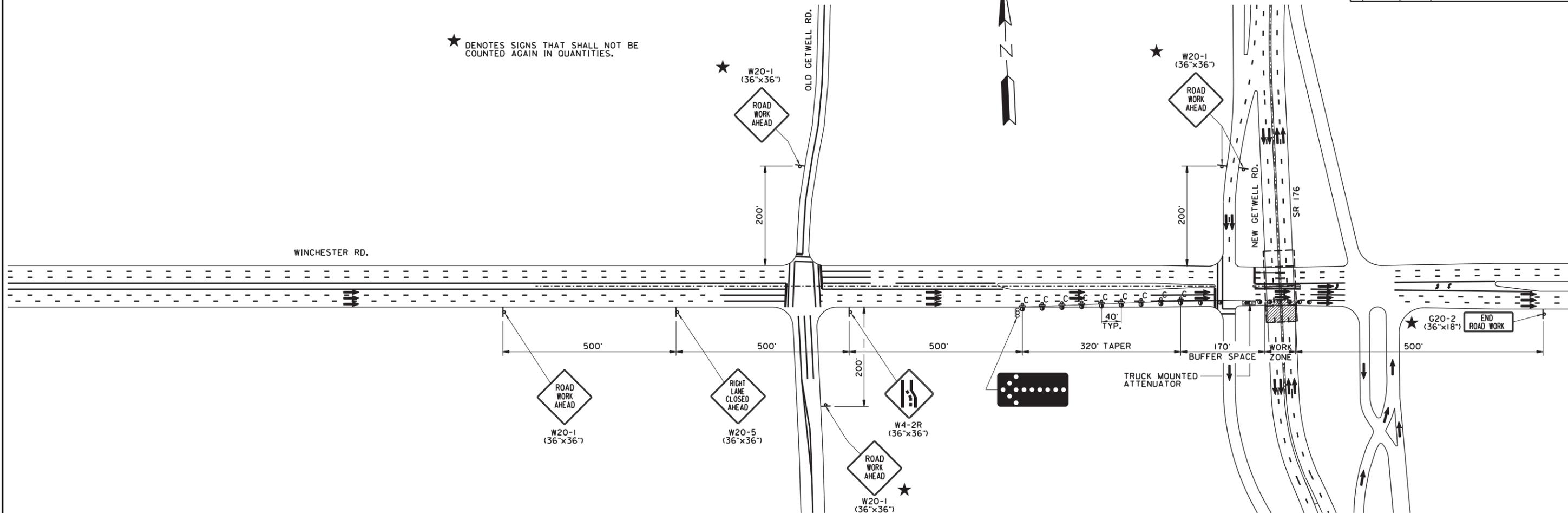
PHASE II AND PHASE IV MAY BE DONE SIMULTANEOUSLY

WEEK END ONLY
FROM: FRIDAY 8:00 PM
TO: MONDAY 5:00 AM

NOTE: SEE STANDARD DWG. T-WZ-40 FOR ADDITIONAL DETAILS.

PROJECT NO.	YEAR	SHEET NO.	
79059-4219-04	2014	5	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

★ DENOTES SIGNS THAT SHALL NOT BE COUNTED AGAIN IN QUANTITIES.



EASTBOUND WINCHESTER RD. - RIGHT LANE CLOSURE

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
TRAFFIC CONTROL - PHASE II

STATE ROUTE 176 (GETWELL RD)
OVER WINCHESTER RD

BRIDGE ID. NO. 79-SR176-4.00

SHELBY COUNTY
2014

PARSONS TRANSPORTATION GROUP
MEMPHIS, TENNESSEE

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CHECKED BY: M.A. TAYLOR DATE: 11-2013

TN. D.O.T. ENGINEERING SUPERVISOR : M. LAWSON.

TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
○	FLEXIBLE CHANNELIZING DRUMS
⊥	CONSTRUCTION SIGN
⊕	FLEXIBLE DRUMS/TYPED "C" WARNING LIGHTS ATTACHED
→	TRAFFIC FLOW
●●●●●	FLASHING YELLOW ARROW BOARD TYPE "C" ARROW BOARD (96"x48") SEE STD. DWG. T-FAB-1
▨	WORK ZONE

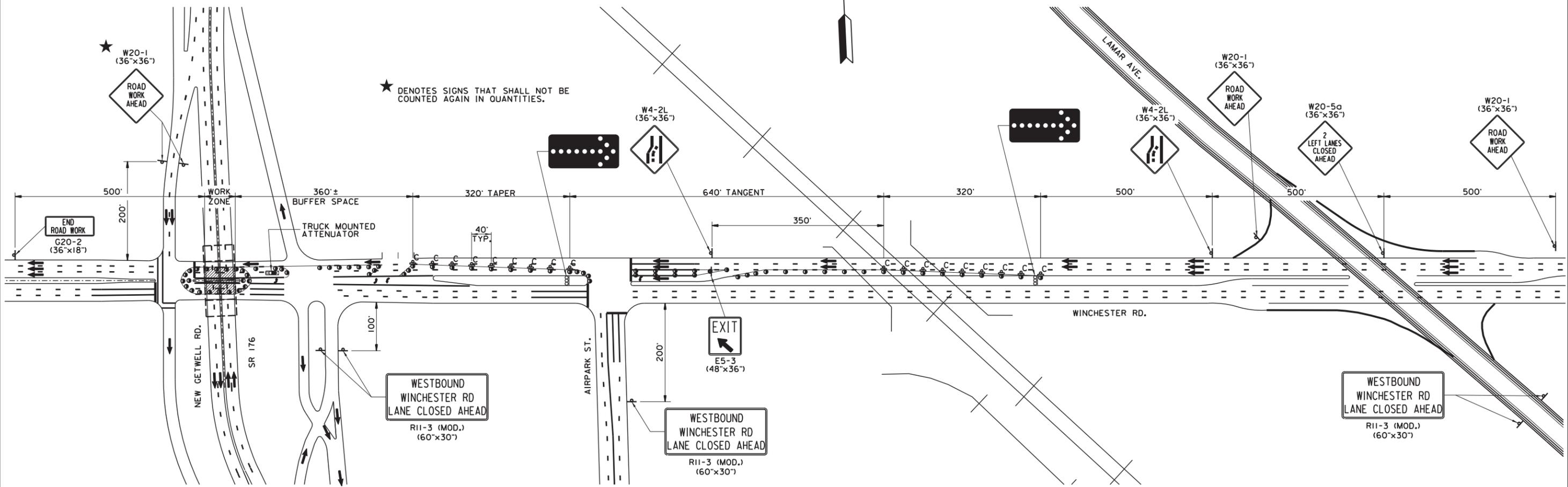
PHASE III AND PHASE I MAY BE DONE SIMULTANEOUSLY

NOTE: SEE STANDARD DWG. T-WZ-42 FOR ADDITIONAL DETAILS.

WEEK END ONLY
FROM: FRIDAY 8:00 PM
TO: MONDAY 5:00 AM

SIGNS MAY BE ADJUSTED TO AVOID CONFLICT WITH EXISTING SIGNS
SIGNS MAY BE ADJUSTED TO AVOID CONFLICT WITH LAMAR AVE. AND/OR RAMPS

PROJECT NO.	YEAR	SHEET NO.	
79059-4219-04	2014	6	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



★ DENOTES SIGNS THAT SHALL NOT BE COUNTED AGAIN IN QUANTITIES.

WESTBOUND WINCHESTER RD. - TWO LEFT LANES CLOSURE

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE REPAIR DETAILS
TRAFFIC CONTROL - PHASE III
STATE ROUTE 176 (GETWELL RD)
OVER WINCHESTER RD
BRIDGE ID. NO. 79-SR176-4.00
SHELBY COUNTY
2014

PARSONS TRANSPORTATION GROUP
MEMPHIS, TENNESSEE
DESIGNED BY: D. RANDALL DATE: 9-2013
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CHECKED BY: M.A. TAYLOR DATE: 11-2013

TN. D.O.T. ENGINEERING SUPERVISOR : M. LAWSON.

TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
○	FLEXIBLE CHANNELIZING DRUMS
⊥	CONSTRUCTION SIGN
⊕	FLEXIBLE DRUMS/TYPICAL "C" WARNING LIGHTS ATTACHED
→	TRAFFIC FLOW
●●●●●	FLASHING YELLOW ARROW BOARD TYPE "C" ARROW BOARD (96"x48") SEE STD. DWG. T-FAB-1
▨	WORK ZONE

ESTIMATED QUANTITIES

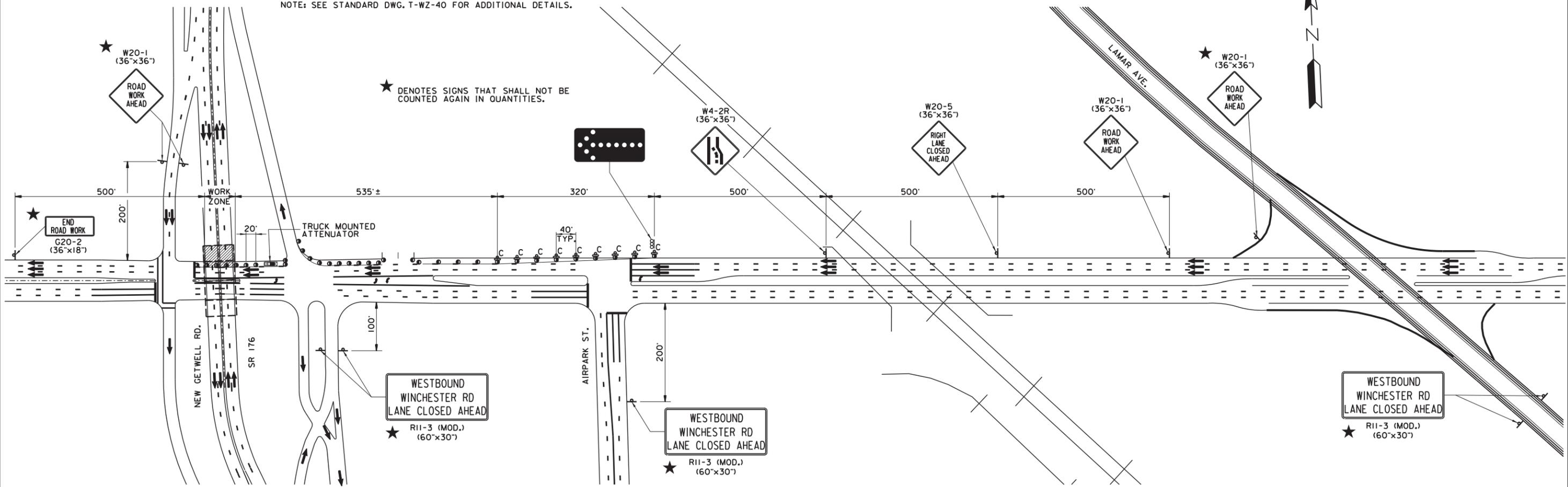
TYPE	DESCRIPTION	SIZE	EA.	SF	PHASE I	PHASE II	PHASE III	PHASE IV	ROADWAY ITEMS	UNIT	TOTAL
E5-3	EXIT WITH ARROW (BLACK ON ORANGE)	48 X 36	2	24	1				TRUCK MOUNTED ATTENUATORS	EA.	☆ 2
G20-2	END ROAD WORK	36 X 18	2	9	1	(* 1)	1	(* 1)	TYPE C WARNING LIGHTS	EA.	☆ 36
R11-3 (MOD)	WESTBOUND WINCHESTER RD LANE CLOSED AHEAD	60 X 30	5	62.5			5	(* 5)	TYPE C ARROW BOARD	EA.	☆ 4
W4-2L	RIGHT LANE MERGE SYMBOL	36 X 36	4	36	2		2		FLEXIBLE CHANNELIZING DRUMS	EA.	☆ 147
W4-2R	LEFT LANE MERGE SYMBOL	36 X 36	2	18		1		1			
W20-1	ROAD WORK AHEAD	36 X 36	9	81	5	1 (* 4)	2 (* 2)	1 (* 3)			
W20-5R	RIGHT LANE CLOSED AHEAD	36 X 36	2	18		1		1			
W20-5a	TWO LEFT LANES CLOSED AHEAD	36 X 36	2	18	1			1			
TOTAL - 1 TIME COUNTED SIGNS			28	266.5							

* DENOTES SIGNS THAT APPEAR ON TRAFFIC CONTROL SHEETS, BUT SHALL NOT BE COUNTED AGAIN IN QUANTITIES.
 ☆ TOTAL TRAFFIC CONTROL QUANTITY SHOWN REPRESENTS THE MAXIMUM NUMBER REQUIRED TO BE IN PLACE AT ANY ONE TIME, AND NOT THE TOTAL NUMBER SHOWN IN ALL PHASES.

PROJECT NO.	YEAR	SHEET NO.
79059-4219-04	2014	7

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

NOTE: SEE STANDARD DWG. T-WZ-40 FOR ADDITIONAL DETAILS.



☆ DENOTES SIGNS THAT SHALL NOT BE COUNTED AGAIN IN QUANTITIES.

PHASE IV AND PHASE II MAY BE DONE SIMULTANEOUSLY

WESTBOUND WINCHESTER RD. - RIGHT LANE CLOSURE

WEEK END ONLY
 FROM: FRIDAY 8:00 PM
 TO: MONDAY 5:00 AM

SIGNS MAY BE ADJUSTED TO AVOID CONFLICT WITH EXISTING SIGNS
 SIGNS MAY BE ADJUSTED TO AVOID CONFLICT WITH LAMAR AVE. AND/OR RAMPS

UNOFFICIAL SET
 NOT FOR BIDDING

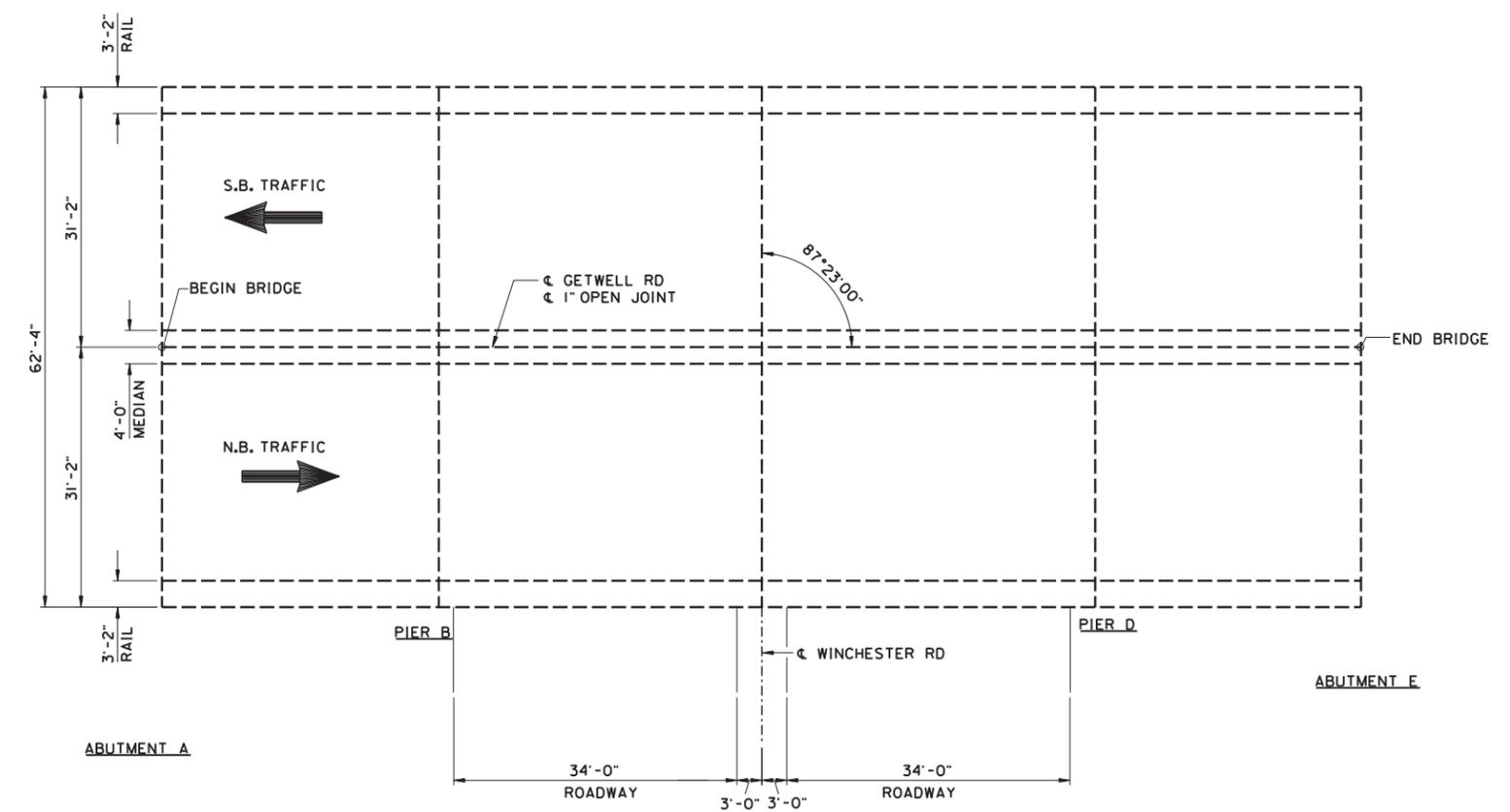
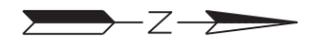
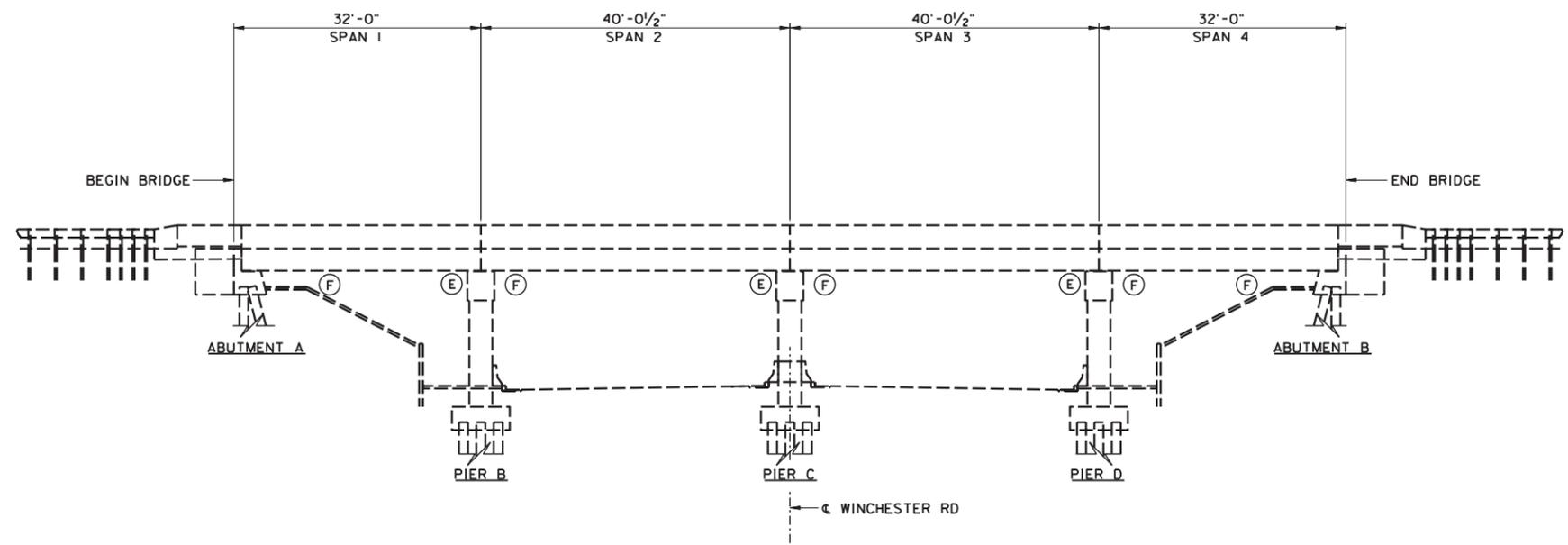
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 TRAFFIC CONTROL - PHASE IV AND ESTIMATED QUANTITIES
 STATE ROUTE 176 (GETWELL RD) OVER WINCHESTER RD

BRIDGE ID. NO. 79-SR176-4.00
 SHELBY COUNTY
 2014

PARSONS TRANSPORTATION GROUP
 MEMPHIS, TENNESSEE
 DESIGNED BY: D. RANDALL DATE: 9-2013
 DRAWN BY: D. RANDALL DATE: 9-2013
 SUPERVISED BY: D.R. NOLTE DATE: 9-2013
 CHECKED BY: M.A. TAYLOR DATE: 11-2013

TN. D.O.T. ENGINEERING SUPERVISOR : M. LAWSON.



PLAN

LEGEND:
 (F) DENOTES EXISTING FIXED BEARING
 (E) DENOTES EXISTING EXPANSION BEARING

PROJECT NO.	YEAR	SHEET NO.	
79059-4219-04	2014		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

GENERAL SCOPE OF WORK

- MISCELLANEOUS SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE REPAIR.
- BEAM STRAND SPLICES NEEDED AT DESIGNATED LOCATIONS.
- REPAIR BEAM CRACKS AND SPALLED AREAS.
- TRAFFIC CONTROL:
 - PHASE CONSTRUCTION LANE CLOSURES ON WINCHESTER RD WITH WEEKEND WORK ONLY.
 - PHASE I: INSIDE LANES
 - PHASE II: TWO OUTSIDE LANES EACH DIRECTION OF TRAFFIC.
 - PROVIDE DETAILS FOR MAINTAINING PEDESTRIAN TRAFFIC.

LIST OF BRIDGE DRAWINGS

DWG. NO.	TITLE
BR-116-119	LAYOUT OF BRIDGE
BR-116-120	ESTIMATED QUANTITIES
BR-116-121	GENERAL NOTES
BR-116-122	FRAMING PLAN
BR-116-123	BEAM REPAIR DETAILS

LIST OF REFERENCE DRAWINGS
(TO BE PRINTED WITH PLANS)

DWG. NO.	DATE OF LAST REV.	TITLE
M-385-157		BRIDGE LAYOUT
M-385-158		ABUTMENTS A & E
M-385-159		PIERS B, C & D
M-385-160		SUPERSTRUCTURE SLAB
M-385-161		SUPERSTRUCTURE SLAB, HANDRAIL AND LIGHTING DETAILS
M-385-162		PRESTRESSED BEAMS TYPE I
M-385-163		EMERGENCY BRIDGE REPAIR
M-385-164		EMERGENCY BRIDGE REPAIR

UNOFFICIAL SET

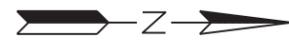
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

 BRIDGE REPAIR DETAILS
 LAYOUT OF BRIDGE
 STATE ROUTE 176 (GETWELL ROAD)
 OVER WINCHESTER ROAD
 BRIDGE ID. NO. 79-SR176-4.00
 SHELBY COUNTY
 2014

PARSONS TRANSPORTATION GROUP
 MEMPHIS, TENNESSEE
 DESIGNED BY: J.B. McELYEA DATE: 4-2013
 DRAWN BY: J.B. McELYEA DATE: 4-2013
 SUPERVISED BY: D.R. NOLTE DATE: 4-2013
 CHECKED BY: M.A. TAYLOR DATE: 11-2013

TN. D.O.T. ENGINEERING SUPERVISOR : M. LAWSON.



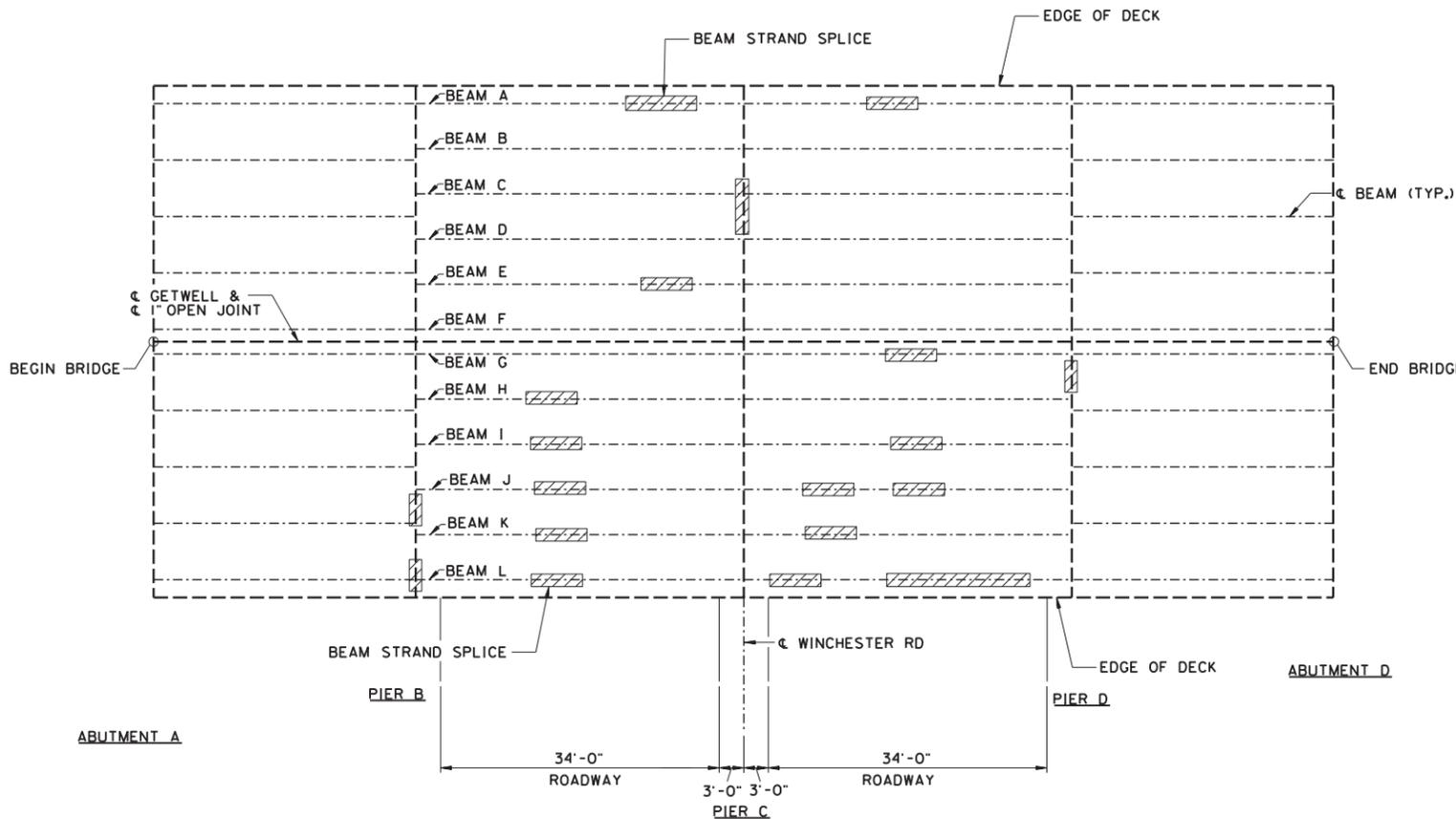
LEGEND:

▨ DENOTES PROPOSED CONCRETE REPAIR

NOTES

1. SEE DWG. BR-116-123 FOR PRESTRESSED BEAM CONCRETE AND STRAND SPLICE DETAILS.

PROJECT NO.	YEAR	SHEET NO.	
79059-4219-04	2014		
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NO.	DATE	BY	BRIEF DESCRIPTION



PLAN

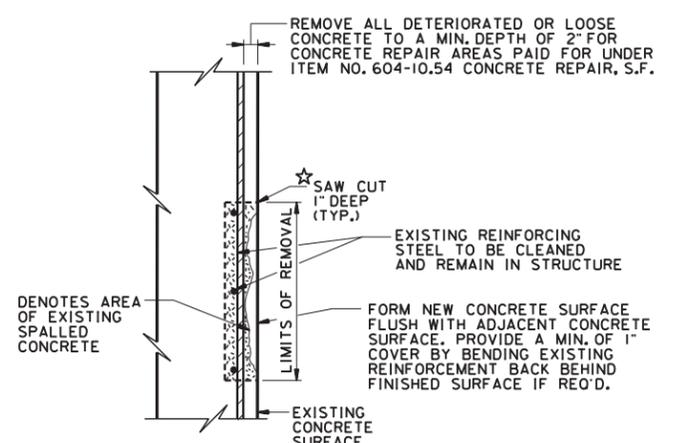
EPOXY INJECTION NOTES

1. THESE QUANTITIES SHOWN ON THIS SHEET MAY INCREASE OR DECREASE AS DIRECTED BY THE ENGINEER FROM THE OFFICE OF INSPECTION AND REPAIR. ACTUAL LOCATIONS TO BE DESIGNATED BY THE ENGINEER FROM THE OFFICE OF INSPECTION AND REPAIR.
2. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN REMOVING EXISTING CONCRETE SO AS NOT TO DAMAGE EXISTING REINFORCING STEEL. IF REINFORCING STEEL IS DAMAGED OR DEEMED UNSUITABLE BY THE ENGINEER A #5 DOWEL BAR (WITH 1'-0" EMBED. & 2'-2" INTO NEW CONC.) SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
SEE DWG. NO. BR-116-121 FOR NOTE CONCERNING LIMITS OF HAMMER SIZE FOR STRUCTURE REMOVAL.
3. ALL CRACKS SMALLER THAN 1/4" SHALL BE INJECTED WITH AN APPROVED EPOXY RESIN ADHESIVE. ALL CRACKS 1/4" OR LARGER SHALL BE INJECTED WITH AN APPROVED EPOXY RESIN ADHESIVE OF THE GEL TYPE.
4. EXTREME CAUTION SHALL BE TAKEN WHEN SELECTING A PRESSURE NECESSARY TO COMPLETE THE EPOXY INJECTION CRACK REPAIR SO AS NOT TO DAMAGE THE STRUCTURE BY CAUSING ADDITIONAL CRACKING. IF ADDITIONAL DAMAGE OCCURS, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY. ALL EPOXY INJECTION WORK SHALL MEET WITH THE FULL APPROVAL OF THE ENGINEER.
5. ALL EPOXY INJECTION CONTRACTORS AND/OR SUBCONTRACTORS SHALL BE APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TESTS.
6. AFTER EPOXY INJECTION IS COMPLETE, ALL INJECTION PORTS SHALL BE REMOVED AND ALL EXCESS SEALING MATERIAL AND EPOXY SHALL BE REMOVED FLUSH WITH THE SURROUNDING CONCRETE SURFACES.
7. CRACK LOCATIONS SHOWN ON THIS SHEET ARE APPROXIMATE ONLY. THE ENGINEER FROM THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TESTS WILL MARK EXACT CRACK LOCATIONS TO RECEIVE EPOXY INJECTION.
8. CERTIFICATION OF THE STRENGTH AND QUALITY OF THE EPOXY RESIN FROM THE MANUFACTURER SHALL BE PROVIDED TO THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TESTS.
9. IF THE CRACKS ARE NOT FULLY SEALED OR THE STRENGTH REQUIREMENTS ARE NOT MET, THEN REDUCTION IN PAYMENT DETERMINED BY THE ENGINEER WILL BE MADE TO THE CONTRACTORS BID PRICE OF ITEM NO. 604-10.62, EPOXY INJECTION REPAIRS (COMPLETE AND IN PLACE), L.F.
10. THE ENGINEER FROM THE STRUCTURES DIVISION, BRIDGE INSPECTION AND REPAIR OFFICE SHALL DESIGNATE TWO (2) RANDOM LOCATIONS WHERE THE CRACKS HAVE BEEN EPOXY INJECTED FOR THE CONTRACTOR TO CORE. THE ONE (1) INCH DIAMETER CORES WILL BE IMMEDIATELY TURNED OVER TO THE ENGINEER FOR INSPECTION AND TO VERIFY FULL SEALING OF THE CRACKS. COST OF CORING SHALL BE INCLUDED IN ITEM NO. 604-10.62, EPOXY INJECTION REPAIRS (COMPLETE AND IN PLACE), L.F. CORES SHALL BE LOCATED TO MISS REINFORCING STEEL. IF REINFORCING STEEL IS ENCOUNTERED, THE CORE LOCATION SHALL BE SHIFTED TO AVOID THE REINFORCING STEEL.
11. COST OF ALL LABOR AND MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE EPOXY INJECTION REPAIRS TO EXISTING CONCRETE CRACKS SHALL BE INCLUDED UNDER ITEM NO. 604-10.62, EPOXY INJECTION REPAIRS (COMPLETE AND IN PLACE), L.F. ITEM NO. 604-10.62 SHALL BE BID SUCH THAT THIS ITEM MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.

ESTIMATED BRIDGE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	TOTAL
604-10.54	CONCRETE REPAIRS	SF	200
604-10.62	EPOXY INJECTION REPAIRS (COMPLETE AND IN PLACE)	LF	125

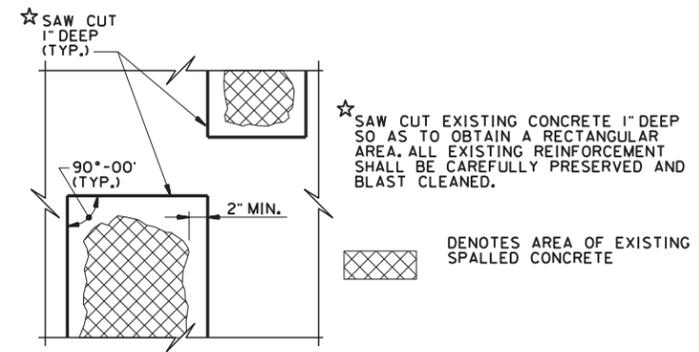
NOTE: THESE QUANTITIES MAY INCREASE OR DECREASE AS DIRECTED BY THE ENGINEER FROM THE OFFICE OF INSPECTION AND REPAIR.

ACTUAL LOCATIONS TO BE DESIGNATED BY THE ENGINEER FROM THE OFFICE OF INSPECTION AND REPAIR.



DETAIL "C"

SPALL SURFACE REPAIR DETAILS



NOTES FOR ITEM 604-10.54:

THE COST OF SAW CUTTING, REMOVING SPALLED OR CRACKED CONCRETE, BLAST CLEANING, PATCHING MATERIAL, LABOR AND ANY MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE REPAIRS AS SHOWN SHALL BE INCLUDED IN ITEM NO. 604-10.54, CONCRETE REPAIRS, S.F.

PATCHING MATERIAL SHALL BE A POLYMER-MODIFIED CEMENTITIOUS STRUCTURAL PATCHING VERTICAL AND OVERHEAD MATERIAL. SEE T.D.O.T. QUALIFIED PRODUCTS LIST 13, SPEC. CATEGORY J, SUBLIST F FOR ACCEPTABLE PATCHING MATERIALS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
FRAMING PLAN
STATE ROUTE 176 (GETWELL ROAD)
OVER WINCHESTER ROAD
BRIDGE ID. NO. 79-SR176-4.00
SHELBY COUNTY
2014

UNOFFICIAL SET
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PARSONS TRANSPORTATION GROUP
MEMPHIS, TENNESSEE

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