DocuSign Envelope ID: 3B662C47-BB36-47FC-A7EE-E83AFC878B49

4/6/2023 12:01:42 PM P:\Raleigh\Projects\2018\Division 9 (Mott MacDonald)\U-2729\Structures\Drawings\Final\U2729_SMU_GD_330290.dgn

33+00 34+00 35+00

SPAN A SPAN B SPAN C

BEGIN BRIDGE
FILL FACE @ END BENT 1
STA. 33+14.78 -L-
G.P. EL. 917.39

END BRIDGE
FILL FACE @ END BENT 2
STA. 35+23.53-L-
G.P. EL. 915.95

EXP. FIX. FIX. FIX. FIX. EXP.

3′-0⅝″ (MIN.)

920 910 900 890 880

FILL
2′-0″ MIN. PILE EMBED. (TYP.)
4″ CONCRETE SLOPE PROTECTION (TYP.)
FACE OF MSE WALL
HP 12 X 53 VERTICAL STEEL PILES (TYP. EA. END BENT)
SINGLE FACE PRECAST CONCRETE BARRIER RAIL (ROADWAY DETAIL AND PAY ITEM) (TYP.)
SINGLE FACE PRECAST CONCRETE BARRIER RAIL (ROADWAY DETAIL AND PAY ITEM) (TYP.)
TOP OF FOOTING EL. 880.80
TOP OF FOOTING EL. 890.30
17′-8″ MIN. VERT. CLEARANCE
17′-8″ MIN. VERT. CLEARANCE
3′-0″ Ø COLUMN (TYP.)
HP 12 X 53 STEEL PILES (TYP. EA. BENT)
FACE OF MSE WALL
UNCLASSIFIED STRUCTURE EXCAVATION
6″ (TYP.)

EL. 910 ± EL. 907 ± EL. 891 ± EL. 893 ± EL. 893 ± EL. 892 ± EL. 892 ± EL. 890 ± EL. 898 ± EL. 906 ± EL. 912 ±

END BENT 1 BENT 1 BENT 2 END BENT 2

(+)2.4610% (-)0.6904%
PVI STA. 31+05.00
EL. = 918.84
VC = 250′

(-)0.6904% (-)2.9586%
PVI STA. 36+25.00
EL. = 915.25
VC = 150′

GRADE DATA -L-

SECTION ALONG ℄ SURVEY -L-

(SECTIONS @ END BENTS AND BENTS ARE @ RIGHT ANGLES)

TOTAL BRIDGE LENGTH = 208′-9″ (FILL FACE TO FILL FACE)

84′-4″ (SPAN A) 68′-2″ (SPAN B) 56′-3″ (SPAN C)

10′-0″ MIN. 12′-0″ FUTURE LANE 3 LANES @ 12′-0″ ± = 36′-0″ ± EXISTING PAVEMENT 15′-0″ ✱ ℄ -Y4- TO KING 15′-0″ ✱ 2 LANES @ 12′-0″ ± = 24′-0″ ± EXISTING PAVEMENT 12′-0″ FUTURE LANE 10′-0″ MIN. ✱ (TYP.) 10′-0″ MIN. ✱✱ (TYP.) 2 LANES @ 12′-0″ ± = 24′-0″ ± FUTURE PAVEMENT 10′-0″

4″ CONCRETE SLOPE PROTECTION

✱ MINIMUM HORIZONTAL CLEARANCE FROM FACE OF CONCRETE BARRIER TO EDGE OF ROADWAY

✱✱ MINIMUM HORIZONTAL CLEARANCE FROM FACE OF CONCRETE BARRIER TO EDGE OF 12′-0″ FUTURE LANES

PMVC 1	PMVC 2
STA. 33+67.37 -L- OFFSET 40.25 FT. RT. BOTTOM OF GDR. EL. 911.16	STA. 34+31.97 -L- OFFSET 40.25 FT. RT. BOTTOM OF GDR. EL. 910.71
STA. 66+49.69 -Y4- OFFSET 26.00 FT. RT. EL. 893.49	STA. 66+40.95 -Y4- OFFSET 38.00 FT. LT. EL. 893.01

PMVC = POINT OF MINIMUM VERTICAL CLEARANCE

W.P. #1
STA. 33+14.78 -L-
FILL FACE @ END BENT 1

BEGIN APPROACH SLAB
STA. 32+90.79 -L-

TO MUSEUM DR.

TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC (SEE NOTES)

EXISTING SUBSTRUCTURE (TYP.)

4″ CONCRETE SLOPE PROTECTION

FACE OF MSE WALL

SINGLE FACE PRECAST CONCRETE BARRIER RAIL (ROADWAY DETAIL AND PAY ITEM (TYP.)

TO WINSTON SALEM

SINGLE FACE PRECAST CONCRETE BARRIER RAIL (ROADWAY DETAIL AND PAY ITEM) (TYP.)

BRIDGE ID.
STA. 33+99.11 -L-
STA. 66+05.52 -Y4-

W.P. #2
STA. 33+99.11 -L-
BENT 1 CONTROL LINE

TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC (SEE NOTES)

℄ GDR. 11

PMVC 1

97°-46′-47″ (TYP.)

TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC (SEE NOTES)

PMVC 2

℄ GDR. 11

W.P. #3
STA. 34+67.28 -L-
BENT 2 CONTROL LINE

PROPOSED GUARDRAIL (ROADWAY DETAIL AND PAY ITEM) (TYP.)

FACE OF MSE WALL

℄ -CD- (FUTURE)

W.P. #4
STA. 35+23.53 -L-
FILL FACE @ END BENT 2

END APPROACH SLAB
STA. 35+47.52 -L-

℄ -L-

TO SR 4000

TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC (SEE NOTES)

STAGE I STAGE II

PLAN

(PILES, COLUMNS AND FOOTINGS NOT SHOWN IN PLAN VIEW)
(BOTH END BENTS AND BENTS ARE PARALLEL)

PROJECT NO. U-2729
FORSYTH COUNTY
STATION: 33+99.11 -L-

SHEET 1 OF 4 REPLACES BRIDGE #330290

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON SR 1672
(HANES MILL RD)
OVER US 52 BETWEEN
MUSEUM DR. AND SR 4000

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			59

DRAWN BY: T. BANKOVICH DATE: 9-22
CHECKED BY: T.J. BEACH DATE: 9-22
DESIGN ENGINEER OF RECORD: J.A. BATTS DATE: 9-22

WGI
5640 Dillard Drive, Suite 200
Cary, NC 27518
LICENSURE NO. C-4434

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18056 JOHN A. BATTS
4/6/2023 | 10:39 AM PDT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED