ATTENTION



BRIDGE INSPECTION REPORT

INSPECTION TYPE:	Routine inspection			
COUNTY GASTON	BRIDGE NUMBER	350133	INSPECTION CYCLE	2 YRS
ROUTE ABERDEEN BLVD.	ACROSS 185			M.P. 0
LOCATION 0.5 MI. N. JCT. NC279				
SUPERSTRUCTURE REINFORCED CONC	RETE DECK ON I-BE	EAMS		
SUBSTRUCTURE E.BTS:RC CAP ON ST	EEL PILES,INT.BTS:	RCP&B ON I	PILE FOOTINGS	
SPANS 1@73'6", 1@75'8", 1@75'10", 10	@67'2" COMPOSITE			
LONGITUDE 81° 8' 35.38"		LATITUDE	35° 15' 59.30"	
INSPECTION DATE 08/19/2014	F	RESENT CC	NDITION GOOD	
PRESENT POSTING Not Posted	NOT POSTED	PROPOSED	POSTING	
OTHER SIGNS PRESENT 4 DELINEATOR	RS			



Fracture Critical No
Temporary Shoring No
Scour Critical No
Scour POA No

	GN NOTIC SUED FO		NUMBERED REQUIRED
	No	WEIGHT LIMIT	
_	No	DELINEATORS	
_	No	NARROW BRIDGE	
_	No	ONE LANE BRIDGE	
-	No	LOW CLEARANCE	

WEST APPROACH

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	350133	SUFFICIENCY RATING =	86.65
(8) STRUCTURE NUMBER(FEDERAL) 000	000000710133	STATUS = Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	50000000		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1		CODE
(3) COUNTY CODE 71 (4) PLACE CODE	25580	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - 185		(104)HIGHWAY SYSTEM Is not on NHS	C
(7) FACILITY CARRIED ABERDEEN BLVD.		(26) FUNCTIONAL CLASS - Collector	17
(9) LOCATION 0.5 MI. N. JCT. NC279		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	C
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 15' 59.30" (17)LONG 81° 8' 35.	38"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	RE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	C
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL —		(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Steel		(22) OWNER - State Highway Agency	01
TYPE - Stringer Mutlibeam or Girder	CODE 302	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :			
TYPE -	CODE 0	CONDITION —	CODE
(45) NUMBER OF SPANS IN MAIN UNIT	4	(58) DECK	8
(46) NUMBER OF APPROACH SPANS	0	(59) SUPERSTRUCTURE	8
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	7
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		(61) CHANNEL & CHANNEL PROTECTION	N
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	N
(B) TYPE OF MEMBRANE -	CODE	LOAD RATING AND POSTING	CODE
(C) TYPE OF DECK PROTECTION -	CODE	(31) DESIGN LOAD HS 20 + MOD	CODL
		(63) OPERATING RATING METHOD - Load Factor	1
AGE AND SERVICE		(64) OPERATING RATING - HS-50	90
(27) YEAR BUILT	1960	(65) INVENTORY RATING METHOD - Load Factor	1
(106)YEAR RECONSTRUCTED		(66) INVENTORY RATING - HS-30	54
(42) TYPE OF SERVICE : ON - Highway		(70) BRIDGE POSTING - No Posting Required	5
UNDER - Highway	CODE 11	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	Α
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	6	DESCRIPTION - Open, No Restriction	,
(29) AVERAGE DAILY TRAFFIC	2100	•	CODE
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT	12%	(67) STRUCTURAL EVALUATION	7
(19) BYPASS OR DETOUR LENGTH	0 MI	(68) DECK GEOMETRY	4
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERTI & HORIZ	3
(48) LENGTH OF MAXIMUM SPAN	74 FT	(71) WATERWAY ADEQUACY	N
(49) STRUCTURE LENGTH	292 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT	1.6 FT	(36) TRAFFIC SAFETY FEATURES	0111
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28.08 FT	(113)SCOUR CRITICAL BRIDGES	N
(52) DECK WIDTH OUT TO OUT	31.5 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	24 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 15° (35) STRUCTURE FLARED	0	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28.08 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Highway	15.75 FT	(114)FUTURE ADT 4200 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Highway	6 FT	(110) TEACH OTONE ADT	2020
(56) MIN LAT UNDERCLEAR LT REF -	7.33 FT		
		(90) INSPECTION DATE	8/19/2014
NAVIGATION DATA		(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	
(38) NAVIGATION CONTROL - Not Applicable	CODE N	A) FRACTURE CRIT DETAIL - NO A)	
(111)PIER PROTECTION -	CODE	B) UNDERWATER INSP - NO B)	
(39) NAVIGATION VERTICAL CLEARANCE	0	C) OTHER SPECIAL INSP NO C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT	SCOUR	
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT		

Structure No: 350133 County: GASTON Run Date:

			ertical		~			L			Traffic	ınce	5	See Not	e 1					Route
Span Number	Feature Intersected	Inventory Route	Minimum Maximum Ve Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Clearanc	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	亡	Direction of Traffic	Highway System of Ro
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I 85 N	11000850	18.08	20.20	1	10085		11	3	54500	2012	52.17	Н	17.67	8	8.17	9	1	1	1
3	I 85 S	11000851	16.25	20.20	1	10085		11	3	54500	2011	49.33	Н	15.75	6	7.33	9	1	1	1

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 09/16/2014

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

GASTON 12 1 350133 292 FEET

ROUTE CARRIED : FEATURE INTERSECTED :

ABERDEEN BLVD. 185

LOCATED: BRIDGE NAME:

0.5 MI. N. JCT. NC279 CITY:

GASTONIA

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

17 FA NFA 2100 2012 LT 111 RT 111

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:

1960 SHC 8.16315 HS 20 + MOD

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

NAVIGATION: HT. CRN. TO BED: WATER DEPTH:

m VC 0 FT HC 0 FT 0 FT 0 FT

LT

75

ON

2

UNDER

6

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES,INT.BTS:RC P&B/PILE FOOTINGS

SPANS: 1@73'-6", 1@75'-8", 1@75'-10", 1@67'-2"

BEAMS OR GIRDERS: 4 LINES OF 36" I-BEAMS @ VARIOUS CENTERS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

8"RC/NO SLAB 31.5 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

28.08 FT 31.25 FT LT 1.6 FT RT 1.6 FT

VERT.CL.OVER:

999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-30 HS-50 Int.bmsSpD SV TTST DATE

SYSTEM: GREEN LINE ROUTE:

Primary Muncipal roads over State System Y

UNDER ROUTES AND CLEARANCES

		Vertical C	earances	Horizo	ntal Clear	rances
Span	Route Description	MMVC	MVC	Total	Left	Right
2	I 85 N	18.08	17.67	52.17	8.17	8
3	I 85 S	16.25	15.75	49.33	7.33	6

Note: All measurements are in feet.

REMARKS:

BRIDGE I & A FORM1 (90)A

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection

BRIDGE NO. 350133 COUNTY GASTON ROUTE ABERDEEN BLVD. OVER 185

STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS

ROUTE ORIENTATION W - E SPANS 1@73'6", 1@75'8", 1@75'10", 1@67'2" COMPOSITE

	E) /A1 11A T/O··· O O = = =	ODITIO	(0 0 5)	BOOK (B = 1	VD /E = 0\ 00==	D (C = 5)		
	EVALUATION CODES:	CRITICAL	(C, 0 - 3);	POOR (P, 4); FA			<u> </u>	
	INSPECTION ITEM					EM 61		
	DECK ITEMS	G	RADES	45. CHANNEL & CHANNEL	a. WATERWAY			
1. WEARING SU			_	PROT. D. ALIGNMENT				
2. 5201(10.	a. CONCRETE	4	G	c. SCOUR d. SLOPE PROT., RIP-RAP, DIKES, ETC.				
ISPN GRADE ⊢	b. TIMBER				, DIKES, ETC.			
INTEGORA A	c. STEEL PLANK				H ROADWAY CON	NDITION		G
-	d. OPEN GRID			51. APPROAC				G
0.10 (12.110	a. CONCRETE		G	52. PAINT SYS	STEM	CODE	I	G
<u>t</u>	b. TIMBER			53. UTILITIES				
(c. ALUMINUM			54. RESPONS	E TO LIVE LOAD			G
(d. STEEL			55. ESTIMATE	D REMAINING LIF	E		30
· · · · · · · · · · · · · · · · · · ·	EELGUARDS, PARAPETS, MEDIA		G					
	(ON OR ATTACHED TO STRUCT	URE)		60. REGULATO	DRY SIGN NOTICE	SISSUED		NO
O. DECK EXI	a. STEEL PL OR FINGER			61. PROMPT-A	CTION NOTICE IS	SSUED		NO
DEVICES	b. MISC PREFAB			62. PRESENTI	Y POSTED			NO
NO. OF EACH_G	c. COMPRESSION SEAL	5	G	63. TOT. FIELD	INSP TIME (INCL	_UDE WRI	TE UP)(MAN HR)	6
C	d. STANDARD JOINTS			64. TOTAL SN	OOPER INSP. TIM	IE (HRS)		
•	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)				
7. DECK DEBRI	IS (INCLUDES EXCESS SAND/GR	RAVEL)	G					
				7	0. SI&A GENERAL	CONDITI	ON RATINGS	
SU	JPER STR. (FM. 1 (90)B TRUSS) I	ΓΕΜ 59		a. DECK			ITEM 58	8
10. LONGITUDI	INAL BEAMS OR GIRDERS		F	b. SUPERSTR	UCTURE		ITEM 59	8
11. LONGITUDI	INAL JOIST OR STRINGERS			c. SUBSTRUC	TURE		ITEM 60	7
12. INT. DIAP'S	, X-FRAMES, BRACING & CONN'S	3	G	d. CHANNEL & CHANNEL PROT. ITEM 61				
13. END DIAP'S	S, CURTAIN WALLS, & CONN'S		G					
14. FLOOR BEA	AMS AND CONNECTIONS				71. SI&A FIELD	APPRAISA	L RATINGS	
15. BEARING A	SSEMBLIES (INCLUDING MISALI	GN)	G	a. WATERWAY ADAQUACY				
16. DRAINAGE	SYSTEM (ON STRUCTURE)		G	b. APPR. RDWY. ALIGNMENT				8
17. MOVABLE S	SPAN MACHINERY							
				72. FIELD SCC	UR EVALUATION			
	STR. ITEMS. ITEM 60 (INCLUDE	-						
	a. ABUT. & INT. BENT CAPS & RIS	SERS		U	SE OF INSP. ACC	ESSIBILIT	Y EQUIPMENT	
STR.	b. PILES, POST, SILLS, & BRACIN	IG		SNOOPER (C	ODE S, 4, OR N)		HRS	NO
	c. BULKHEADS, WING'S, & TIE BA	ACKS		LADDER				NO
	a. ABUT. & INT. BENT CAPS		G	BUCKET TRU	CK			NO
SUB STR.	b. ABUT. & BENT COL'S BREAST\	WALLS	G	BOAT				NO
C	c. ABUT. & INT. BENT PILES			OTHER				NO
d. BACKWALLS, WING'S, RETAIN. WALLS		G						
6	e. ABUT. & BENT FOOTINGS & SI	LLS						
	a. ABUT. & INT. BENT CAPS & RIS	SERS		SPECIAL INSP	PECTION REQUES	STED FOR		
SUB STR.	b. PILES, BRACING, AND BULKHE	EADS						
38. FOUNDATIO	ON PILES TYPE MATERIAL			NOTE				
39. SLOPE PRO	OT., RIP-RAP (INCLUDE DRAINAG	GE)	F					
40. FENDER SYSTEMS				80. INSPECTE	D BY:		ILL RA	
40.1 ENDER OF								

Duida a 19 A Ca	- T 4/00\L						
Bridge I&A Fo		FIELD INSPECTION REPORT					
	rth Carolina ansportation	Bridge Inspecion & Analysis					
Division of	-						
	derek ricku						
Assisted By	eap	,					
Item No.	Grade						
		DECK REHAB					
2a	G	PHOTO SHOWING CONES ANDCABLE ALONG THE RAILS STILL IN PLACE					
6c	G	joints reworked with compression seals					
10	F	BMS., BEARING AND DIAPHS PAINTED- COATING I					
		IMPACT DAMAGE INSPECTION WAS REQUESTED FOR SPAN 3 OVER 185					
		GIRDER 4 - INITINAL POINT OF IMPACT ON GIRDER 4 IN SPAN 3 WAS 16'-4" FROM FACE OF BENT 3, A GOUGE IN THE FLANGE 2" X 8" X 1"+/- DEEP AND IS BENT UPWARD 1 1/2"+/- IN THE DAMAGED AREA. INDENTIONS IN FLANGE 1/2" X 1/16" AT 16'-3", A 1/2" X 1/16" AT 16'-1" BOTH FROM FACE OF BENT 3. A MARK ON THE OUTSIDE OF WEB FROM 19'-7" TO 45'-0" FROM FACE OF BENT 3. INDENTION IN FLANGE 25" X 1/16" AT 9'-3" FROM FACE OF BENT 3. GIRDER 4 IS 1/2" OUT OF PLUMITO THE SOUTH AT 35'-100 FROM FACE OF BENT 2. (SEE PHOTOS).					
		GIRDER 1 - POINT OF IMPACT ON GIRDER 1 IN SPAN 3 WAS 4'-3" FROM FACE OF BENT 3, A INDENTION IN THE FLANGE 1" X 1/16"+/					
10A	NO	no curved girders					
12	G	diaph from girder 3 to girder 4 repaired at connections					
15	G	painted					
38		not visible					
39	F	BOTH CONCRETE SLOPES SHOW CRACKING UP TO 1/4 INCH WITH VEGETATION GROWING THROUGH CRACKS.					

COCNCRETE APPROACHES REWORKED.

51

G

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 350133 County GASTON Date: 08/19/2014

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
0	No Maintenance Required	NA	0	NO MAINT. AT THIS TIME	







JOINTS REWORKED



DECK REHAB

Structure 350133 County GASTON Date: 08/19/2014 Condition Photos



PHOTO SHOWING CONES ANDCABLE ALONG THE RAILS STILL IN PLACE



COCNCRETE APPROACHES REWORKED.

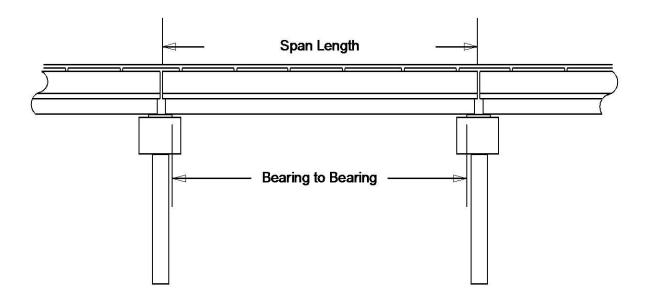
Structure 350133 County GASTON Date: 08/19/2014 Condition Photos



BMS., BEARING AND DIAPHS PAINTED- COATING I

Structure Data Worksheet

County: GASTON Structure No: 350133 Date: 08/19/2014 Inspected By: dcr



Span No	Span Length	Bearing to Bearing	Comments
1	73.50	71.2'	
2	75.67	74'	
3	75.83	74'	
4	67.17	64.7'	NBIS = 286.5'

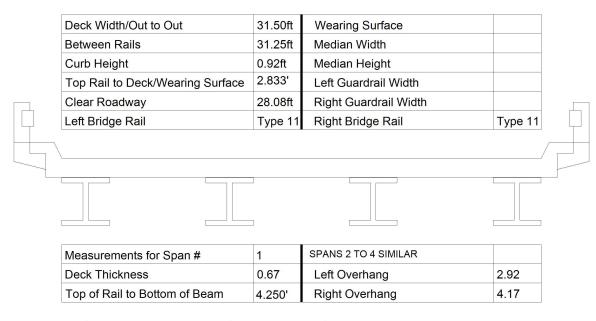


	7.08ft Unpaved
Left Guardrail 5.17ft from road	
Right Guardrail 7.08ft from road	

VERIFIED BY ERIC PATTERSON ON 8-19-2014

Roadway

Title		Descri	ption	
APPROACH ROADWAY		APPRO	DACH ROADWAY	
Bridge No: 350133	Drawn By: DCR		Date: 8/27/08	File Name: \$0286000146

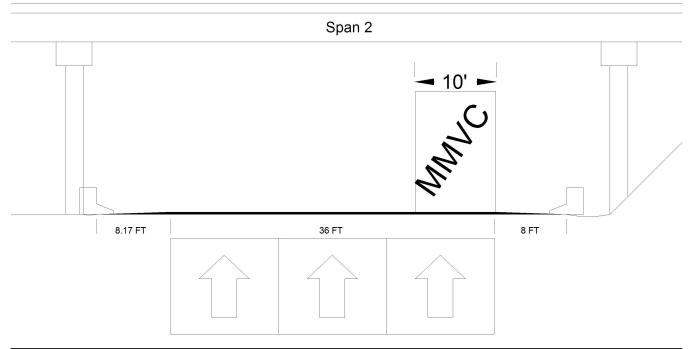


Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8.17ft	
2	Steel I Beam	8.25ft	
3	Steel I Beam	8.25ft	
4	Steel I Beam		

BEAMS (NON-TAPERED FLANGES) 12" \$6 FLANGES = 15/16" WEB = 5/8"

VERIFIED BY ERIC PATTERSON ON 8-19-2014

Title		Description					
TYPICAL SECTION		TYPIC	AL SECTION				
Bridge No: 350133	Drawn By: DCR		Date: 8/27/08	File Name: \$0286000147			

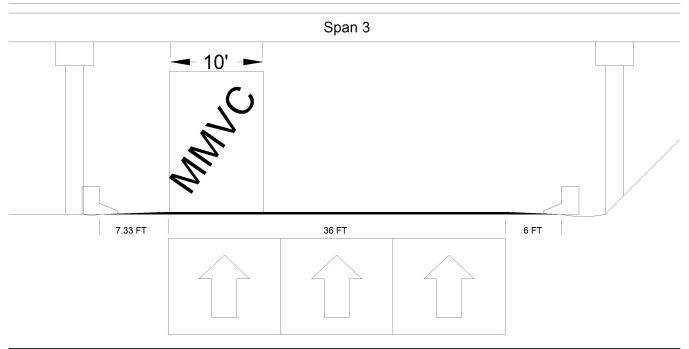


Roadway 1		Direction of Traffic	North				
Distance to Left Rail	8.17FT	Distance to Right Rail	8FT				
Distance to Left Toe of Slope		Distance to Left Bent	9.67FT				
Distance to Right Toe of Slope	12.83FT	Distance to Right Bent	9.83FT				
MMVC	18.08 Ft at Beam 1, 0 FT from RIGHT EDGE OF RIGHT LANE						
MVC	17.67 Ft at Beam 1, 0 FT from LEFT EDGE OF LEFT LANE						

MILEPOST 20.2

VERIFIED BY ERIC PATTERSON ON 8-19-2014

Title		Description				
NORTHBOUND UNDERC	LEARANCE	NORTH	HBOUND UNDERCLE	EARANCE		
Bridge No: 350133	Drawn By: DCR		Date: 8/27/08	File Name: \$0286000148		



Roadway 1		Direction of Traffic	South			
Distance to Left Rail	7.33FT	Distance to Right Rail	6FT			
Distance to Left Toe of Slope		Distance to Left Bent	9FT			
Distance to Right Toe of Slope	10.67FT	Distance to Right Bent	7.67FT			
MMVC	16.25 Ft at Beam 1, 0 FT from LEFT EDGE OF LEFT LANE					
MVC	15.75 Ft at Beam 1, 0 FT from RIGHT EDGE OF RIGHT LANE					

MILEPOST 20.2

VERIFIED BY ERIC PATTERSON ON 8-19-2014

Title		Description				
SOUTHBOUND UNDERCLEARANCE		SOUTHBOUND UNDERCLEARANCE				
Bridge No: 350133	Drawn By: DCR	Date: 8/27/08	File Name:S0286000149			

Cap Inf	ormation		Material	Cast-in-	Place Cond	rete						
Length		Height	Left Over	hang	Right Ove	rhang	Left Be	eam to En	of Cap.	Righ	t Beam to Er	d of Cap.
32.500 f	ft. 2.500 ft.	2.333 ft.	4.000	ft.	4.000	ft.	1.8	33 ft.		1.833 ft.		
Subcap	Information		Material									
Length	n Width	Height	Left Over	hang	Right Ove	rhang	Left Pi	le to Splic	e.			
Sill Info	rmation		Material									
Length	n Width	Height										
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orie	entation	Driven?	Replacer	nent?	Removed?	Collar?
1	Concrete	12.333 ft.	2.500 ft.	2.500 1	t.	Ver	tical	No	No		No	No
2	Concrete	12.333 ft.	2.500 ft.	2.500 1	ŧ.	Ver	tical	No	No		No	No
3	Concrete		2.500 ft.	2.500 1	t.	Ver	tical	No	No		No	No
VE	RIFIED I	3Y ERI	C PAT	TER	SON O	N 8-	-19-2	014				
								· .				
	outment #:	1	Similar I	Bents:	2,3							
Γitle							ription					
VTERIO!	R BENTS					SUR	STRUC	TURE D	FTAILS			



GUARDRAIL END FOR ALL FOUR CORNERS



WEST APPROACH



GUARDRAIL ATTACHED TO THE BRIDGE RAIL FOR ALL FOUR CORNERS



GUARDRAIL LOOKING WEST



GUARDRAIL LOOKING EAST



EAST APPROACH



ABUT. 2



BENT 3



BENT 2



LOOKING NORTH



LOOKING SOUTH



BENT 1



ABUT. 1