

**INDEX OF SHEETS**

- 1. TITLE SHEET
- 2. PRELIMINARY INFORMATION SHEET
- 3. TYPICAL BRIDGE SECTIONS
- 4. TYPICAL ROADWAY SECTIONS
- 5. QUANTITY SHEET #1
- 6. QUANTITY SHEET #2
- 7. BRIDGE QUANTITY SHEET
- 8. TIE SHEET
- 9. SITE PLAN AND PROFILE
- 10. EXISTING CONDITIONS SITE PLAN AND NARRATIVE
- 11. EROSION AND SEDIMENT CONTROL PLAN
- 12. FINAL CONDITIONS SITE PLAN
- 13.-14. EROSION CONTROL DETAILS
- 15. TRAFFIC CONTROL PLAN
- 16. PROJECT NOTES
- 17. DECK REINFORCING PLAN
- 18. FRAMING PLAN
- 19. MISCELLANEOUS DETAILS I
- 20. MISCELLANEOUS DETAILS II
- 21. BEARING DETAILS
- 22. ABUTMENT PLANS & ELEVATIONS
- 23. REINFORCING SCHEDULE
- 24. ROADWAY CROSS SECTIONS

**LIST OF STANDARDS**

- C-10 02/11/08
- E-100 01/02/04
- E-101 05/30/03
- E-102 06/30/03
- E-102A 05/01/04
- E-107 06/30/03
- E-107A 06/08/09
- E-108 06/08/09
- E-121 08/08/95
- E-160 05/20/99
- G-1 01/03/00
- G-1d 01/03/00
- SB-R4A-82 09/19/89
- SB-R6-82 01/06/95

**EXISTING STRUCTURE**

- 1. STRUCTURE TYPE STEEL BEAMS WITH CONCRETE DECK OVERALL LENGTH 68.77' INVENTORY RATING \_\_\_\_\_
- 2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS 66.77'
- 3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM 64'
- 4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM) \_\_\_\_\_ VERTICAL CLEARANCE ABOVE STREAM BED \_\_\_\_\_
- 5. WATER SURFACE ELEVATION @ 0 2.33 \_\_\_\_\_ WATER SURFACE ELEVATION @ 0 100
- 6. WATER SURFACE ELEVATION AT FLOOD OF RECORD \_\_\_\_\_ YEAR \_\_\_\_\_ ESTIMATED DISCHARGE \_\_\_\_\_
- 7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? \_\_\_\_\_ IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR? 010
- 8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL \_\_\_\_\_
- 9. DISPOSITION OF STRUCTURE CONCRETE DECK AND STEEL BEAMS TO BE REPLACED

NOTE: A HYDRAULICS ANALYSIS WAS NOT PERFORMED FOR THIS PROJECT.

**ALLOWABLE STRESSES:**

- 1. DESIGN LIVE LOAD AASHTO HS25-44
- 2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL \_\_\_\_\_ ON LEDGE \_\_\_\_\_
- 3. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
- 4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M 270 GRADE 50W TENSION 27.0 KSI
- 5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION 24.0 KSI COMPRESSION 20.0 KSI
- 6. ALLOWABLE STRESS FOR CONCRETE, HIGH PERFORMANCE CLASS A  $f'_c$  4,000 PSI  $f_c$  1,600 PSI
- HIGH PERFORMANCE CLASS B  $f'_c$  3,500 PSI  $f_c$  1,400 PSI

**TRAFFIC MAINTENANCE:**

- 1. IS TRAFFIC TO BE MAINTAINED? ROAD CLOSED DURING CONSTRUCTION IF YES, ON EXISTING STRUCTURE \_\_\_\_\_ OR ON TEMPORARY BRIDGE \_\_\_\_\_
- 2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY \_\_\_\_\_ TRAFFIC CONTROL SIGNALS REQUIRED \_\_\_\_\_
- MINIMUM CLEAR SPAN \_\_\_\_\_ MINIMUM CLEAR HEIGHT \_\_\_\_\_ MINIMUM WATERWAY AREA \_\_\_\_\_
- ARE SIDEWALKS REQUIRED? \_\_\_\_\_ IF SO, ON WHAT SIDE? \_\_\_\_\_

LOAD FACTOR LOAD RATING (TONS)							TRAFFIC DATA					
LOADING LEVELS (LOAD FACTOR)	TRUCK						YEAR	ADT	DHV	% D	% T	ADTT
	H	HS	352	6 AXLE	3A. STR.	4A. STR.						
INVENTORY A=2.17 B=1.00	47	60					2000	810	-	-	-	-
POSTED A=1.55 B=1.40	65	83	104		75	77	2020	1100	-	-	-	-
OPERATING A=1.30 B=1.67		99	124	151	89	92	DESIGN SPEED: 15 MPH					

STRENGTH RF =  $\frac{0.9 M_n - 1.3 M_{DL}}{A \times M_{LL+I}}$  SERVICEABILITY RF =  $B \left[ \frac{0.95 F_y S_{LL+I} - M_{DL} S_{LL+I} - M_{SD} S_{SD}}{1.67 M_{LL+I}} \right]$



PROJECT NAME: CLARENDON  
 PROJECT NUMBER: BHO 1443 (39)  
 FILE NAME: ...Drawing\02-clar-pl.dgn PLOT DATE: 7/23/2009  
 PROJECT LEADER: MJC DRAWN BY: SEB  
 DESIGNED BY: SEB CHECKED BY: MJC  
 PRELIMINARY INFORMATION SHEET SHEET 2 OF 24