

INDEX OF SHEETS

- 1. TITLE SHEET
- 2.-3. INDEX OF SHEETS AND PROJECT NOTES SHEETS 1-2
- 4. TYPICAL BRIDGE SECTIONS SHEET
- 5. TYPICAL ROADWAY SECTIONS SHEET
- 6.-7. QUANTITY SHEETS 1-2
- 8. CONVENTIONAL SYMBOLOGY LEGEND SHEET
- 9. LAYOUT SHEET
- 10. PROFILE SHEET
- 11.-13. TRAFFIC CONTROL SHEETS 1-3
- 14. TRAFFIC CONTROL BARRIER SHEET
- 15.-16. PHASING SECTIONS SHEETS 1-2
- 17.-18. TEMPORARY TRAFFIC BARRIER - BRACED SHEETS 1-2
- 19.-20. DECK DETAILS SHEETS 1-2
- 21.-23. JOINT DETAILS SHEETS 1-3
- 24. CURB REPLACEMENT DETAILS SHEET
- 25. BITUMINOUS CONCRETE REMOVAL PLAN SHEET
- 26. RAIL LAYOUT SHEET
- 27.-49. REFERENCE PLAN SHEETS 1-23

STRUCTURE DETAIL SHEETS

- SD-501.00 02/09/2012 CONCRETE DETAILS AND NOTES
- SD-502.00 10/10/2012 CONCRETE DETAILS AND NOTES
- SD-516.10 08/29/2011 BRIDGE JOINT ASPHALTIC PLUG
- SD-601.00 06/04/2010 STRUCTURAL STEEL DETAILS & NOTES

HIGHWAY SAFETY AND DESIGN DETAIL SHEETS

- HSD-621.06 11/03/2015 GUARDRAIL TERMINAL LABEL DETAIL

VAOT STANDARD SHEETS

- E-193 08/18/1995 PAVEMENT MARKING DETAILS
- G-1 11/10/2015 STEEL BEAM GUARDRAIL WITH STEEL POSTS, STEEL BEAM GUARDRAIL WITH WOOD POSTS
- G-1d 02/10/2014 STEEL BEAM GUARDRAIL APPROACH END TERMINAL, STEEL BEAM GUARDRAIL TRAILING END TERMINAL
- T-1 08/06/2012 TRAFFIC CONTROL GENERAL NOTES
- T-11 08/06/2012 CONSTRUCTION APPROACH SIGNING DIVIDED HIGHWAY ONE LANE CLOSED
- T-12 08/06/2012 TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED
- T-13 08/06/2012 TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED
- T-22 08/06/2012 TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY
- T-31 08/06/2012 CONSTRUCTION SIGN DETAILS
- T-42 04/09/2014 BRIDGE NUMBER PLAQUE
- T-44 04/09/2014 MILEMARKER DETAILS STATE AND TOWN HIGHWAYS
- T-55 10/26/2015 SIGN PLACEMENT EXPRESSWAY & FREEWAY
- S-360A 04/23/2012 BRIDGE RAILING, GALVANIZED 2 RAIL BOX BEAM
- S-360B 04/23/2012 GUARDRAIL APPROACH SECTION, GALVANIZED 2 RAIL BOX BEAM
- S-391 01/16/2014 SNOW BARRIER

LRFR LOAD RATING FACTORS							
LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	1.17	0.86					
POSTING							
OPERATING	1.52	1.11	2.48	1.46	2.10	2.15	2.21
COMMENTS:	H-20 AND 3A. STR. TRUCKS CONTROLLED BY DECK RATING, OTHER TRUCKS CONTROLLED BY GIRDER RATING. HL-93 INVENTORY RATING IS LESS THAN 1.00 FOR MOMENT.						

PROJECT NOTES

GENERAL

- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2014, AND ITS LATEST REVISIONS.
- 2. THE DESIGN LIVE LOAD SHALL BE HL-93.
- 3. ALL WORK AND ANY ASSOCIATED ACTIVITY ON THIS PROJECT SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY LIMITS.
- 4. THE CONTRACTOR IS MADE AWARE THAT EXISTING UTILITIES MAY EXIST WITHIN THE CONSTRUCTION LIMITS OF BRIDGE NO. 107N. THE LOCATION OF ANY UTILITY INFORMATION ON THE PLANS IS APPROXIMATE. NO CLAIMS ARE MADE TO THE ACCURACY OR COMPLETENESS OF THE UTILITIES SHOWN. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL UTILITIES ON SITE DURING ALL STAGES OF CONSTRUCTION. ANY DAMAGE TO UTILITIES DUE DIRECTLY TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 5. FOLLOWING THE COMPLETION OF ALL OTHER CONSTRUCTION ACTIVITIES, ALL BEAM SEATS SHALL BE CLEANED OFF. THE COST FOR CLEANING BEAM SEATS WILL BE CONSIDERED INCIDENTAL TO ALL OTHER ITEMS IN THE CONTRACT.
- 6. ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY DUE DIRECTLY TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
- 7. LIMITS OF GROUND SURVEY ARE BETWEEN STA 8607+24 AND STA 8612+61. OUTSIDE THESE LIMITS ARE APPROXIMATE LOCATIONS TAKEN FROM AERIAL MAPPING.
- 8. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.
- 9. EROSION CONTROL MEASURES SHALL BE UTILIZED AS REQUIRED AND SHALL CONFORM TO SECTION 105 OF THE STANDARD SPECIFICATIONS AND THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL FROM THE AGENCY OF NATURAL RESOURCES. PAYMENT FOR EROSION CONTROL MEASURES, IF APPLICABLE, WILL BE PAID FOR AS EXTRA WORK IN ACCORDANCE WITH 104.03.
- 10. THE CONTRACTOR SHALL PREVENT ANY MATERIAL FROM ENTERING THE WATERWAY, RAILROAD, OR ROADWAY DURING EXCAVATION, PARTIAL REMOVAL OF STRUCTURE, OR CONSTRUCTING THE NEW DECK.
- 11. THE DESIGN INTENT IS TO ALLOW THE CONTRACTOR TO STAGE IN THE LANE CLOSURES OF THE TRAVELED ROADWAY OF THE APPROACHES TO THE BRIDGE. ANY STAGING AREAS OUTSIDE OF THIS SHALL BE CLEARED FOR RESOURCES THROUGH THE VTRANS ENVIRONMENTAL UNIT.

TRAFFIC CONTROL

- 12. SEE TRAFFIC CONTROL SHEET 1 FOR TRAFFIC CONTROL NOTES.

DECK REMOVAL AND RELATED ITEMS

- 13. ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE" WILL INCLUDE REMOVAL OF ANY PORTIONS OF THE EXISTING STRUCTURE AS SHOWN ON THE PLANS, INCLUDING THE EXISTING BRIDGE DECK AND CURBS, SCUPPERS, BARRIER MEMBRANE, PAVEMENT, AND BRIDGE RAILING, EXCEPT AS NOTED ON SHEET 25. ITEM 529.25, "REMOVAL OF CONCRETE OR MASONRY" WILL INCLUDE REMOVAL OF THE EXISTING CONCRETE CURBS ALONG THE TOPS OF THE WINGWALLS. ITEM 525.10, "REMOVAL OF EXISTING BRIDGE RAILING" WILL INCLUDE REMOVAL OF THE EXISTING BRIDGE RAIL ALONG THE TOP OF THE WINGWALLS. SEE BITUMINOUS CONCRETE/ CONCRETE REMOVAL DETAIL ON SHEET 25.
- 14. THE TOPS OF THE EXISTING WINGWALLS SHALL BE REMOVED BY MECHANICAL MEANS AND THE REMAINING CONCRETE SHALL HAVE NEAT LINES AND BE SMOOTH. PROTECT ALL ELEMENTS INTENDED TO REMAIN.
- 15. AFTER REMOVAL OF THE EXISTING BRIDGE DECK, ANY AREAS ON THE CONCRETE BEAM SEAT THAT ARE FOUND TO BE UNSOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE METHOD FOR DETERMINING AREAS OF UNSOUND CONCRETE SHALL BE APPROVED BY THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO HOW TO REPAIR THE DETERIORATED PORTION OF THE CONCRETE BEAM SEAT AND THE LIMITS OF THE REPAIR. THE REPAIRS WILL BE PAID FOR UNDER ITEM 580.13, "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS 1" OR ITEM 580.14, "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II, AS APPLICABLE. QUANTITIES FOR ITEMS 580.13 AND 580.14 AS SHOWN ON THE QUANTITY SUMMARY SHEETS ARE ESTIMATED.
- 16. THE EXISTING STEEL AND HARDWARE FOR THE FINGER JOINT AT PIER #4 AND THE COMPRESSION JOINT AT ABUTMENT #4 SHALL REMAIN IN-PLACE DURING DECK REMOVAL OPERATIONS AS SHOWN ON SHEET 20, AND THE EXISTING STEEL SHALL BE CLEANED OF REMAINING CONCRETE OR LATENT MATERIAL. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE". IF REMOVAL OF THE JOINT HARDWARE IS DETERMINED TO BE REQUIRED BY THE CONTRACTOR TO FACILITATE THE WORK, THE COST FOR THE REMOVAL OF THE HARDWARE WILL BE CONSIDERED INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE". RESETTING THE HARDWARE WILL BE CONSIDERED INCIDENTAL TO ITEM 501.33, "CONCRETE, HIGH PERFORMANCE CLASS A".
- 17. MINOR REPAIRS TO THE EXISTING COMPRESSION JOINT HARDWARE AT ABUTMENT #4, SPECIFICALLY TO THE STEEL ANGLES ALONG THE LENGTH OF THE JOINT AND ANY OTHER MINOR DAMAGE TO STEEL HARDWARE, MAY BE REQUIRED. ANY AREAS OF THE EXISTING JOINT HARDWARE THAT ARE FOUND TO BE MISSING OR DAMAGED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENGINEER SHALL MAKE A DETERMINATION AS TO HOW TO REPAIR THE DAMAGED HARDWARE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 506 AND THE LIMITS OF THE REPAIR. ANY REPAIRS SHALL BE MADE WITH GRADE A36 STEEL AND SHALL BE GALVANIZED. THE GALVANIZING OF THE NEW STEEL SHALL BE REPAIRED PER SUBSECTION 726.08, IF APPLICABLE. THE REPAIRS TO THE JOINT WILL BE PAID FOR UNDER ITEM 506.60, "STRUCTURAL STEEL". AN ESTIMATED QUANTITY FOR ITEM 506.60 IS SHOWN IN THE QUANTITY SUMMARY SHEETS.
- 18. THE COMPRESSION JOINT SEAL AT ABUTMENT #4 SHALL BE REMOVED AND REPLACED. THIS WORK WILL BE PAID FOR UNDER ITEM 900.640, "SPECIAL PROVISION (REMOVE AND REPLACE COMPRESSION JOINT SEAL)".

CLD 15-0223 MODEL+Sheet01



PROJECT NAME:	IRASBURG
PROJECT NUMBER:	IM DECK(46)
FILE NAME:	z15all6notes-107N.dgn
PLOT DATE:	3/8/2016
PROJECT LEADER:	J. BYATT
DRAWN BY:	M. SMITH
DESIGNED BY:	S. BEAUMONT
CHECKED BY:	J. BYATT
INDEX OF SHEETS & PROJECT NOTES SHEET 1	SHEET 2 OF 49