

GENERAL NOTES

- 1) ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002, AND ITS LATEST REVISIONS.
- 2) DESIGN IS FOR HS-25-44 LIVE LOADING.
- 3) BRIDGE NO. 25 SHALL BE CLOSED DURING THE CONSTRUCTION PERIOD.
- 4) FULL ACCESS TO ALL DRIVES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES.
- 5) ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68° F OR AS NOTED OTHERWISE.
- 6) ALL ON-PROJECT CONSTRUCTION SIGNS AND BARRICADES AS REQUIRED BY THE RESIDENT ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED UNDER ITEM 641.10, TRAFFIC CONTROL. THE SIGNING WILL BE PER THE LATEST EDITION OF M.U.T.C.D. ALL OFF-PROJECT SIGNING SHALL BE THE RESPONSIBILITY OF THE TOWN.
- 7) EXISTING SIGNS NOT REUSED SHALL REMAIN THE PROPERTY OF THE TOWN OF READING. THESE SIGNS SHALL BE STOCKPILED ON THE PROJECT TO BE PICKED UP BY THE TOWN. CONTACT THE TOWN ROAD FOREMAN FOR PICK UP OF SIGNS.
- 8) ITEM 529.15 "REMOVAL OF STRUCTURE" SHALL BE USED FOR REMOVAL OF THE EXISTING SUPERSTRUCTURE AND ANY PORTIONS OF THE SUBSTRUCTURE NOT REMOVED UNDER THE ITEM 208.35 "COFFERDAM EXCAVATION, ROCK" OR ITEM 203.27 "UNCLASSIFIED CHANNEL EXCAVATION".
- 9) STONE FILL TYPE III SHALL BE PLACED IN FRONT OF THE ABUTMENTS BEFORE THE BEAMS ARE SET.
- 10) STONE FILL TYPE I SHALL BE USED AT THE END OF THE NEW PIPES TO PREVENT EROSION.
- 11) THE BRIDGE PLAQUE SHALL BE FURNISHED BY THE AGENCY OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR AS SHOWN ON THE DETAILS ON SHEET 19.
- 12) THE RESIDENT ENGINEER WILL WORK WITH PROPERTY OWNER, ROBERT WALSH 484-3555, DURING CONSTRUCTION TO ENSURE THE SAFETY OF HIS HERD.

CONCRETE

- 13) AFTER THE SUPERSTRUCTURE STEEL HAS BEEN SET ON THE BEARINGS, ELEVATIONS SHALL BE TAKEN ALONG THE TOP OF EACH BEAM UNDER THE DIRECTION OF THE RESIDENT ENGINEER. THESE ELEVATIONS SHALL BE USED IN DETERMINING THE FINAL GRADE.
- 14) CONCRETE PORTIONS OF THE ABUTMENT AND WINGWALLS ABOVE THE ADJACENT BRIDGE SEAT ELEVATIONS SHALL NOT BE PLACED UNTIL THE FINISH GRADE HAS BEEN DETERMINED BY THE RESIDENT ENGINEER.
- 15) FLEMING BRACKETS SHALL BE DESIGNED BY THE CONTRACTOR, BUT SHALL BE LIMITED TO A MAXIMUM SPACING OF 4'-0".
- 16) ANY BOLT HOLES IN THE WEB OF THE FASCIA BEAMS NOT OTHERWISE FILLED SHALL BE FILLED WITH BUTTON HEAD OR HEX BOLTS MEETING AASHTO M 164 TYPE 3. THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 507.04 OF THE STANDARD SPECIFICATIONS.
- 17) REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE AS FOLLOWS:

SPACING	+/- 1"
CLEARANCE	+/- 1/4"
- 18) WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDER SIDE OF THE DECK BETWEEN DRIP NOTCHES.
- 19) THE DECK AND CURB CONCRETE SHALL BE "SPECIAL PROVISION" (HIGH PERFORMANCE CONCRETE, CLASS A LOW CEMENT). ANY REQUIRED SUBFOOTING SHALL BE "CONCRETE, CLASS C". ALL OTHER CONCRETE SHALL BE "CONCRETE, HIGH PERFORMANCE CLASS B", UNLESS OTHERWISE NOTED.
- 20) THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. UPWARD KEYS SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
- 21) JOINTS AND SCORE MARKS IN THE CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 22) ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1"X1".
- 23) THE DECK SHALL BE GIVEN A TURF DRAG FINISH.

- 24) SURFACES OF BRIDGE SEATS UNDER THE BEARING DEVICES SHALL BE LEVEL. OTHER AREAS OF THE BRIDGE SEAT SHALL BE SLOPED 1/4" PER FOOT FULL WIDTH TOWARD MID SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE GIVEN A MAGNESIUM FLOAT FINISH.
- 25) WHEN PLACING THE DECK, THE CONCRETE SHALL BE DEPOSITED PARALLEL TO THE CENTERLINE OF BEARING SO AS TO LOAD THE GIRDERS EQUALLY.
- 26) THE DECK IS TO BE PLACED IN ONE CONTINUOUS PLACEMENT WITH A MAXIMUM DURATION OF EIGHT HOURS. IF CIRCUMSTANCES BEYOND THE CONTRACTORS CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A CONSTRUCTION JOINT SHALL BE USED. A 96 HOUR DELAY BETWEEN THE COMPLETION OF ONE DAY'S PLACEMENT AND THE BEGINNING OF ANOTHER PLACEMENT SHALL BE OBSERVED.

LEDGE

- 27) FOR ALL SUBSTRUCTURES, WHERE LEDGE IS BETWEEN 2'-0" AND 4'-0" BELOW THE TOP OF FOOTING ELEVATION, THE FOOTING SHALL BE POURED TO THE TOP OF THE LEDGE USING "CONCRETE, HIGH PERFORMANCE CLASS B".
- 28) THE FOOTING SHALL BE FOUNDED ON LEDGE WHICH HAS BEEN CLEANED OF ALL LOOSE ROCK AND OTHER DEBRIS. THE LEDGE SHALL BE REMOVED AS REQUIRED TO ENSURE THE FOOTINGS ARE PLACED ON COMPETENT ROCK.
- 29) THE SUBSTRUCTURE UNITS HAVE BEEN DESIGNED FOR THE TOP OF FOOTING ELEVATIONS AS SHOWN ON THE PLANS. IF THE LEDGE ELEVATION IS GREATER THAN 4'-0" BELOW THE DESIGN TOP OF FOOTING, THE STRUCTURES PROJECT MANAGER SHALL BE NOTIFIED AND PROVIDED WITH A LEDGE PROFILE. NO FURTHER WORK SHALL BE DONE UNTIL A REPLY IS RECEIVED. ITEM 541.30, "CONCRETE CLASS C" MAY BE USED IN THESE AREAS WITH APPROVAL OF THE ENGINEER.
- 30) FOR ALL SUBSTRUCTURE UNITS, WHERE LEDGE IS LESS THAN 2'-0" BELOW THE DESIGN TOP OF FOOTING, THE LEDGE SHALL BE EXCAVATED DOWN TO 2'-0" BELOW THE DESIGN TOP OF FOOTING ELEVATION. ALL LEDGE REMOVAL, UP TO A MAXIMUM OF 6" AVERAGE ALLOWANCE FOR OVERBREAKAGE IN ACCORDANCE WITH SUBSECTION 208.11(c), SHALL BE PAID FOR UNDER ITEM 208.35, "COFFERDAM EXCAVATION, ROCK". ADDITIONAL OVERBREAKAGE WILL BE AT THE CONTRACTOR'S EXPENSE. ALL OVERBREAKAGE SHALL BE REPLACED WITH CONCRETE, HIGH PERFORMANCE CLASS B. OVERBREAKAGE REPLACEMENT UP TO A MAXIMUM OF 6" AVERAGE DEPTH SHALL BE PAID FOR UNDER ITEM 501.34, "CONCRETE, HIGH PERFORMANCE CLASS B". ADDITIONAL CONCRETE REQUIRED WILL BE AT THE CONTRACTOR'S EXPENSE.
- 31) UPON COMPLETION OF COFFERDAM EXCAVATION, EARTH; AND PRIOR TO PLACING FORMWORK, THE RESIDENT ENGINEER SHALL CONTACT THE SOILS AND FOUNDATION ENGINEER/ENGINEERING GEOLOGIST FROM THE VERMONT AGENCY OF TRANSPORTATION TO INSPECT THE LEDGE TO DETERMINE IF IT IS COMPETENT TO SUPPORT THE DESIGN PRESSURE AS SHOWN ON THE PLANS. THE GEOLOGIST SHALL BE ALLOWED 5 WORKING DAYS FROM NOTICE OF EXCAVATION TO MAKE THE INSPECTION AND THE DETERMINATION OF THE COMPETENCY OF THE LEDGE.
- 32) IF LEDGE IS ABOVE THE DESIGN TOP OF FOOTING, THE FOOTING ELEVATION MAY BE RAISED. BEFORE ANY ADJUSTMENT IS MADE ON FOOTING ELEVATIONS THE STRUCTURES PROJECT MANAGER SHALL BE CONTACTED FOR APPROVAL OF THE CONFIGURATION.
- 33) #8 DOWELS SHALL BE DRILLED AND GROUTED INTO LEDGE AS SHOWN ON THE PLANS. THE DOWELS SHALL HAVE A 2'-0" EMBEDMENT IN THE LEDGE AND SHALL EXTEND INTO THE FOOTING A MINIMUM OF 1'-6" UNLESS NOTED OTHERWISE. THE DRILLING AND GROUTING SHALL BE PAID FOR UNDER THE ITEM 507.16 "DRILLING AND GROUTING DOWELS", HOWEVER THE DOWELS SHALL BE PAID FOR UNDER THE ITEM 507.15 "REINFORCING STEEL".
- 34) IF LEDGE IS ENCOUNTERED DURING EXCAVATION FOR PLACEMENT OF STONE FILL TYPE III, LEDGE SHALL NOT BE REMOVED.

STEEL

- 35) ALL STRUCTURAL STEEL PAID UNDER THE ITEM 506.50 "STRUCTURAL STEEL ROLLED BEAM" SHALL CONFORM TO AASHTO M 270M/M 270 GRADE 50W UNLESS NOTED OTHERWISE ON THE PLANS.
- 36) ALL FIELD CONNECTIONS SHALL BE MADE USING 7/8" DIAMETER TYPE III BOLTS MEETING THE AASHTO M 164 SPECIFICATION. ANY CONNECTIONS NOT DESIGNATED SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
- 37) THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL. THE REMOVED STRUCTURAL STEEL IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED EXISTING STRUCTURAL STEEL.

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	READING	Bridge No.	25
Highway No.	TH 8	Log Sta.	
		Rev. Sta.	
TH 8 OVER MILL BROOK			
GENERAL NOTES			
Designed By	R. S. YOUNG	Drawn By	R. S. YOUNG
Checked By	Date	Bridge Design Supervisor	
W. B. SYMONDS	8/99	C. P. WILLIAMS	Date 8/99
PROJECT	READING	PROJECT NO.	BRZ 1444 (23)
IG.C. Info.	M:\Projects\90\058\Structures\sj058not.dgn		
Bridge Sheet No.	sj105not.i	Sheet	14 of 49