

# QUANTITIES

ITEM NO.	ITEM DESCRIPTION	QUANT.	UNIT
204.25	STRUCTURE EXCAVATION	475	CY
204.30	GRANULAR BACKFILL FOR STRUCTURES	360	CY
501.22	CONCRETE, CLASS A	4	CY
514.10	WATER REPELLENT	8	GAL
526.30	MECHANICALLY STABILIZED EARTH (MSE) WALL (MOD I) PRECAST CONCRETE MODULAR WALL (T-WALL)	95	SY
526.30	MECHANICALLY STABILIZED EARTH (MSE) WALL (MOD II) PRECAST CONCRETE BACKWALL TOP	8	SY
635.10	MOBILIZATION (MOD.)	1	LS
649.11	GEOTEXTILE FOR ROADBED SUBGRADE SEPARATOR	85	SY
649.51	GEOTEXTILE FOR SILT FENCE	60	SY
651.26	HAY BALES FOR EROSION CONTROL	45	EA
901.10	REMOVAL AND REPLACEMENT OF CROSS TIES (MOD I) 8"x8"x11' TIMBER CROSS TIES	5	EA
901.10	REMOVAL AND REPLACEMENT OF CROSS TIES (MOD II) 8"x8"x10' TIMBER CROSS TIES	5	EA
901.10	REMOVAL AND REPLACEMENT OF CROSS TIES (MOD III) 8"x8"x9' TIMBER CROSS TIES	35	EA
901.10	REMOVAL AND REPLACEMENT OF CROSS TIES (MOD IV) 8"x8"x16' TIMBER CROSS TIES	2	EA
904.15	REMOVAL AND REPLACEMENT OF INDIVIDUAL RAILS (MOD I) REMOVE, RESET, AND RE-ALIGN RAIL	351	LF
910.10	BALLAST	100	CY
960.10	MAINTENANCE OF RAIL TRAFFIC	1	LS

## GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND AREMA (AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION).
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE APPROXIMATE UNLESS SHOWN OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR FIELD CHECKING ANY AND ALL DIMENSIONS AND ELEVATIONS APPLICABLE TO THIS WORK.
- SOME ELEMENTS OF WORK, AS OUTLINED ON SHEET 8, WILL BE ALLOWED PRIOR TO AND AFTER THE TRACK DOWN-TIME. PROPER NOTIFICATION AND PERMISSION SHALL BE OBTAINED FROM GREEN MOUNTAIN RAILROAD.
- WHERE THE REQUIREMENTS OF AREMA, AASHTO, AND VTRANS SPECIFICATIONS DIFFER, AREMA SPECIFICATIONS SHALL GOVERN. THE EXCEPTION IS VTRANS SPECIFICATION DIVISION 100, GENERAL PROVISIONS, SHALL GOVERN.
- THE UTILIZATION OF GREEN MOUNTAIN RAILWAY FOR TRANSPORTATION OF MATERIALS / SUPPLIES MAY BE AVAILABLE TO THE CONTRACTOR. A SEPARATE CONTRACT BETWEEN GREEN MOUNTAIN RAILROAD AND THE CONTRACTOR IS REQUIRED.
- A REPRESENTATIVE FROM T-WALL WILL BE REQUIRED TO BE ON SITE DURING THE ERECTION OF THE BACKWALL AND RETAINING WALLS.
- NO TIME EXTENSION FOR INCLEMENT WEATHER WILL BE GRANTED.

## TRACK OUT-OF-SERVICE SPECIAL CONDITIONS:

- THE CONTRACTOR WILL BE ALLOWED APPROXIMATELY 14 DAYS OF TRACK DOWN TIME. THE TRACK WILL BE TAKEN OUT OF SERVICE AT 7:00 A.M. ON THURSDAY AFTERNOON. THE TRACK WILL BE REQUIRED TO BE BACK IN SERVICE BY 7:00 A.M. ON MONDAY MORNING. 24 HOUR PER DAY WORK PERIODS MAY BE REQUIRED TO BRING THE TRACK BACK IN SERVICE WITHIN THE TIME ALLOCATED.
- THE 5 DAY PERIOD FOR THE TRACK DOWN TIME WILL BE NO SOONER THAN ~~OCTOBER 31, 2002~~ AND NO LATER THAN ~~NOVEMBER 19, 2002~~. THE ACTUAL TRACK DOWN-TIME THAT THE CONTRACTOR CHOOSES WITHIN THIS PERIOD SHALL BE COORDINATED WITH GREEN MOUNTAIN RAILROAD.
- INCREMENTAL LIQUIDATED DAMAGES WILL BE ASSESSED FOR EACH DAY BEYOND 7:00 A.M. ON MONDAY THAT THE TRACK IS NOT PUT BACK INTO SERVICE AS FOLLOWS:
  - FIRST DAY - \$10,000.00 (MONDAY AT 7:01 A.M. UNTIL TUESDAY AT 6:59 A.M.)
  - SECOND DAY - \$20,000.00 (TUESDAY AT 7:00 A.M. UNTIL WEDNESDAY AT 6:59 A.M.)
  - THIRD AND EACH ADDITIONAL DAY (24 HOUR PERIOD) - \$25,000.00 (BEGINNING ON WEDNESDAY AT 7:00 A.M.)

## DESIGN CRITERIA:

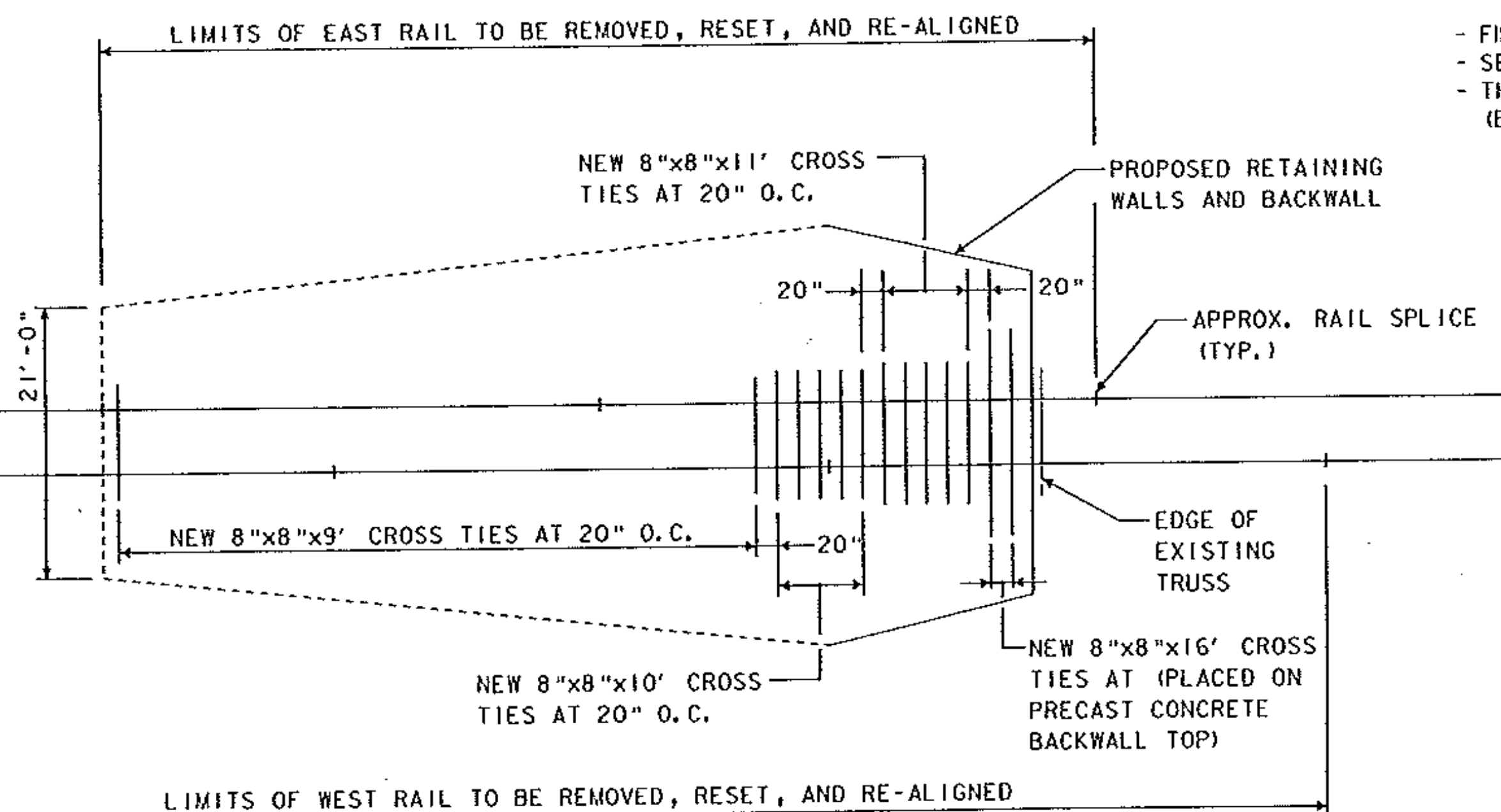
DESIGN LIVE LOAD: COOPER E-80  
 ALLOWABLE SOIL BEARING PRESSURE: 6000 PSF  
 REINFORCING STEEL: GRADE 60  
 CONCRETE CLASS A: f'c = 4000 PSI  
 PRECAST CONCRETE: f'c = 4000 PSI

## CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL TAKE SPECIAL CARE AND PRECAUTIONS THAT NO DEBRIS FALLS INTO THE WILLIAMS RIVER.
- ALL WORK/FEEES ASSOCIATED WITH THE SITE ACCESS WILL BE PAID FOR AS ITEM 635.10, 'MOBILIZATION'. ACCESS TO THE WORK SITE SHALL ONLY BE MADE FROM WITHIN THE RAILROAD RIGHT-OF-WAY. ACCESS TO THE SITE USING PRIVATE PROPERTY WILL BE ALLOWED WITH WRITTEN PERMISSION FROM THE PROPERTY OWNER.
- ALL EQUIPMENT, PERSONNEL AND MATERIALS, INCLUDING SILT FENCE, REQUIRED FOR WATER CONTROL WILL BE PAID FOR AS ITEM 649.51, 'GEOTEXTILE FOR SILT FENCE'.
- ALL FLAGGING EXPENSES, SCHEDULING OF TRACK OUTAGES AND MAINTENANCE OF RAIL TRAFFIC WILL BE PAID FOR AS ITEM 960.10, 'MAINTENANCE OF RAIL TRAFFIC'.
- WATER REPELLENT SHALL BE APPLIED TO THE ENTIRE FACE OF THE PROPOSED T-WALL UNITS, LEVELING PAD AND PRECAST CONCRETE BACKWALL TOP.
- CONCRETE FOR THE LEVELING PAD SHALL BE CONCRETE, CLASS A. ADDITIVES TO THE STANDARD CLASS A MIX SHALL ACCOMMODATE A 12 HOUR HIGH-EARLY STRENGTH OF 1000 PSI. THE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR WILL BE REQUIRED TO TEST THE MIX PER ASTM SPECIFICATIONS TO ASSURE THE 12 HOUR STRENGTH WILL BE ATTAINED.
- REMOVAL OF THE STONE PORTION OF THE BACKWALL AND RETAINING WALLS, AS WELL AS THE THE BACKFILL BEHIND, WILL BE PAID FOR AS ITEM 204.25, 'STRUCTURE EXCAVATION'. CARE SHOULD BE TAKEN AS TO NOT ALLOW ANY IMPACT DAMAGE TO THE TRUSS AS A RESULT OF THE EXCAVATION PROCESS.
- THE CONTRACTOR WILL BE REQUIRED TO FILL OUT THE INFORMATION REQUESTED ON THE 'ARCHAEOLOGICAL & NATURAL RESOURCE REVIEW OF WASTE, BORROW & STAGING AREAS'. ALL WORK/FEEES ASSOCIATED WITH THE WASTE PERMIT WILL BE PAID FOR AS ITEM 204.25, 'STRUCTURE EXCAVATION'. SEE SPECIAL PROVISION.
- INSTALLING THE TWO 8"x8"x16' TIMBER TIES ON THE PRECAST CONCRETE BACKWALL TOP WILL BE PAID FOR AS ITEM 901.10, 'REMOVAL AND REPLACEMENT OF CROSS TIES (MOD III) INSTALL 8"x8"x16' CROSS TIES'.
- REMOVAL, RESETING, AND RE-ALIGNMENT OF RAIL AND GUARDRAIL WILL BE PAID FOR AS ITEM 904.15, 'REMOVAL AND REPLACEMENT OF INDIVIDUAL RAILS (MOD I) REMOVE AND RESET RAIL'.

# QUANTITIES

ITEM NO.	ITEM DESCRIPTION	QUANT.	UNIT
651.15	SEED	20	LB
651.17	SEED- WINTER RYE	2	LB
651.18	FERTILIZER	80	LB
651.20	AGRICULTURAL LIMESTONE	1	TON
651.25	HAY MULCH	1	TON
651.35	TOPSOIL	20	CY



TIE, TRACK, & BALLAST DETAIL

SCALE: 1" = 10'

----- HORIZONTAL LIMITS OF BALLAST BEYOND VERTICAL LIMITS OF EXCAVATION

### NOTES:

- SEE SECTION A-A ON SHEET 8 FOR BALLAST SECTION WITHIN VERTICAL LIMITS OF EXCAVATION.
- PROPOSED BALLAST BEYOND VERTICAL LIMIT OF EXCAVATION SHALL BE 2' IN THICKNESS. PLACEMENT SHALL MAINTAIN EXISTING EDGE OF SLOPE. BALLAST REMOVAL SHALL BE PAID FOR AS ITEM 204.25, "STRUCTURE EXCAVATION".

EDWARDS & KELCEY, INC.



## STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	ROCKINGHAM	Bridge No.	107
Highway No.	Green Mountain Railroad	Log Sta.	
		Surv. Sta.	
BRIDGE OVER WILLIAMS RIVER			
QUANTITIES & NOTES			
Designed By	J. Wilson	Drawn By	S. Gunn
Checked By	S. Holloran	Date	6/02
		Design Supervisor	Date
PROJECT	ROCKINGHAM	PROJECT NO.	RAIL-04-9044 C/7 PHASE II
I.G.C. Info.		Bridge Sheet No.	Sheet 2 of 11

PLOTTED 07/16/02