

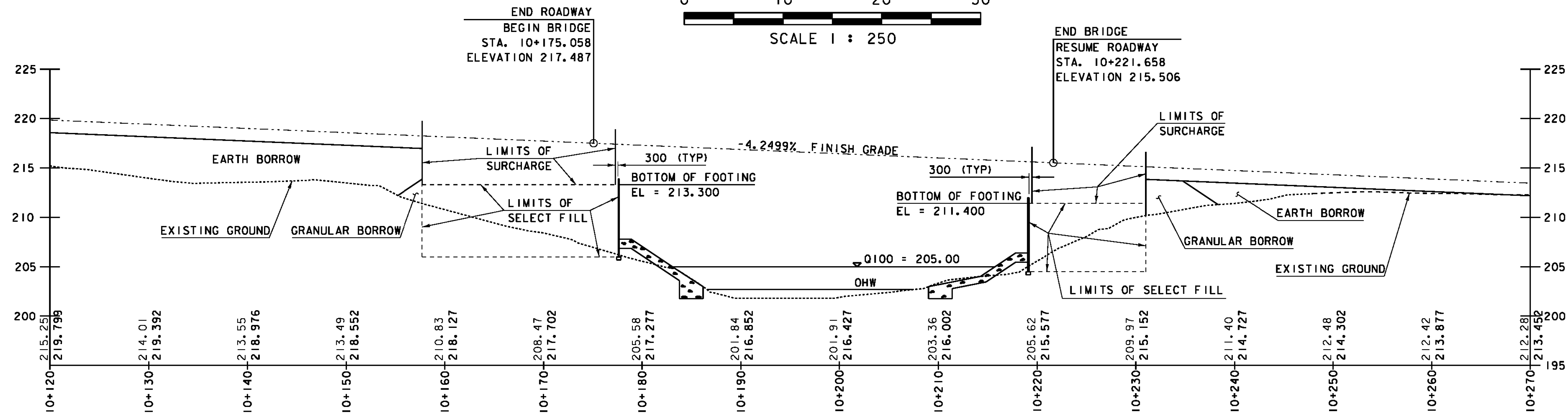
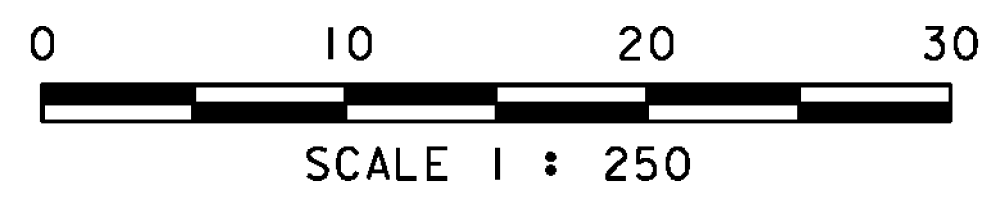
THE CONTRACTOR SHALL INSTALL SETTLEMENT PLATFORMS AT THE FOLLOWING LOCATIONS:

	STATION	OFFSET
PL-1	10+120.00	6.0 M LT
PL-2	10+171.00	0.0 M CL
PL-3	10+224.00	0.0 M CL
PL-4	10+234.00	6.0 M LT
C-1	10+157.70	9.6 M RT
C-2	10+232.50	7.2 M RT

	ULTIMATE SETTLEMENT DUE TO MSE FILL/EMBANKMENT	TIME TO 90% CONSOLIDATION WITH SURCHARGE
ABUT 1	.21 M	65 DAYS
ABUT 2	.21 M	100 DAYS
EMBANKMENT	.11 M	NA

- LIMITS OF SURCHARGE
- ⊕ SOIL BORING LOCATION
- ⊕ SETTLEMENT PLATFORM TYPE I
- ⊕ SETTLEMENT PLATFORM TYPE IV, VIBRATING WIRE
- ⊕ TYPE IV PLATFORM READOUT BOX LOCATION (FIELD CONTROL STATION) *

*THE EXACT LOCATION OF THE READOUT BOX WILL BE DETERMINED BY THE CONTRACTOR WITH APPROVAL OF THE RESIDENT ENGINEER.



NOTE:
GRADES SHOWN TO THE NEAREST HUNDREDTHS ARE EXISTING GROUND ALONG E.
GRADES SHOWN TO THE NEAREST THOUSANDTHS ARE FINISH GRADES ALONG F.

1. THE SETTLEMENT OF THE FOUNDATION WILL BE MONITORED DURING THE SURCHARGE TREATMENT USING TYPE I AND TYPE IV SETTLEMENT PLATFORMS INSTALLED AT THE LOCATIONS SHOWN ABOVE. BOTH TYPE I AND TYPE IV SETTLEMENT PLATFORMS SHALL MEET THE GUIDELINES SPECIFIED IN STANDARD SHEET L-1, DETAIL SHEET 76, AND SECTION 900 OF THE SPECIAL PROVISIONS.
2. THE MONITORING INSTRUMENTATION SHALL BE PAID FOR UNDER ITEMS 900.620 SPECIAL PROVISION (SETTLEMENT PLATFORM, TYPE I) AND 900.620 SPECIAL PROVISION (SETTLEMENT PLATFORM, TYPE IV). ALL OF THE OTHER WORK REQUIRED FOR SURCHARGING THE ROADWAY, INCLUDING FURNISHING THE LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE WORK SHALL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (SURCHARGING).
3. A SURCHARGE LOAD SHALL BE APPLIED WITHIN THE LIMITS INDICATED ON THIS SHEET. THE SURCHARGE SHALL HAVE A LOAD OF 142 KPA AT THE BOTTOM OF FOOTING ELEVATION OF ABUT. NO 1, AND 125 KPA AT THE BOTTOM OF FOOTING ELEVATION OF ABUT. NO 2.
4. THE SURCHARGE SHALL NOT BE REMOVED UNTIL 200 mm OF SETTLEMENT HAS OCCURRED, THE ESTIMATED TIME TO 90% CONSOLIDATION HAS ELAPSED, OR APPROVAL BY THE RESIDENT ENGINEER. SEE SPECIAL PROVISIONS
5. ABUTMENTS SHALL NOT BE CONSTRUCTED UNTIL THE REQUIREMENTS GIVEN IN NOTE 4 HAVE BEEN MET.
6. THE FOLLOWING SETTLEMENT PLATFORM READINGS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER: (FILL ELEVATIONS SHALL BE RECORDED WHENEVER READINGS ARE TAKEN)
 - A. INITIAL READINGS SHALL BE TAKEN AT ALL SETTLEMENT PLATFORMS BEFORE ANY SURCHARGE LOAD IS APPLIED.
 - B. IF THE SURCHARGE LOAD IS PLACED INCREMENTALLY, READINGS SHALL BE TAKEN FOR EVERY 16.8 kpa OF SURCHARGE PRESSURE PLACED.
 - C. UPON COMPLETION OF SURCHARGE PLACEMENT OPERATIONS, SETTLEMENT PLATFORM READINGS SHALL BE TAKEN ONCE EVERY OTHER DAY FOR THE DURATION OF THE SURCHARGE TREATMENT.
7. AFTER SUBBASE IS CONSTRUCTED THE CONTRACTOR SHALL WAIT A MINIMUM OF 90 DAYS BEFORE PAVING. THE CONTRACTOR SHALL ALSO WAIT 90 DAYS BEFORE DRAINAGE PIPES ARE INSTALLED IN FILL AREAS. THE WAIT PERIOD MAY BE REDUCED WITH THE APPROVAL OF THE RESIDENT ENGINEER BASED ON SETTLEMENT READINGS.

PROJECT: STOCKBRIDGE	PROJECT NO. # BRF 022-1 (20)
DESIGN FILE NAME: 85e039\structures\de039surcharge.dgn	PLOT DATE: 08-APR-2010
IPARM FILE NAME: de039surcharge.i	DESIGNED BY: R. S. YOUNG
SQUAD LEADER:	DRAWN BY: D. D. BEARD
SURCHARGE DETAILS	CHECKED BY: R. S. YOUNG
	SHEET: 75 OF 139