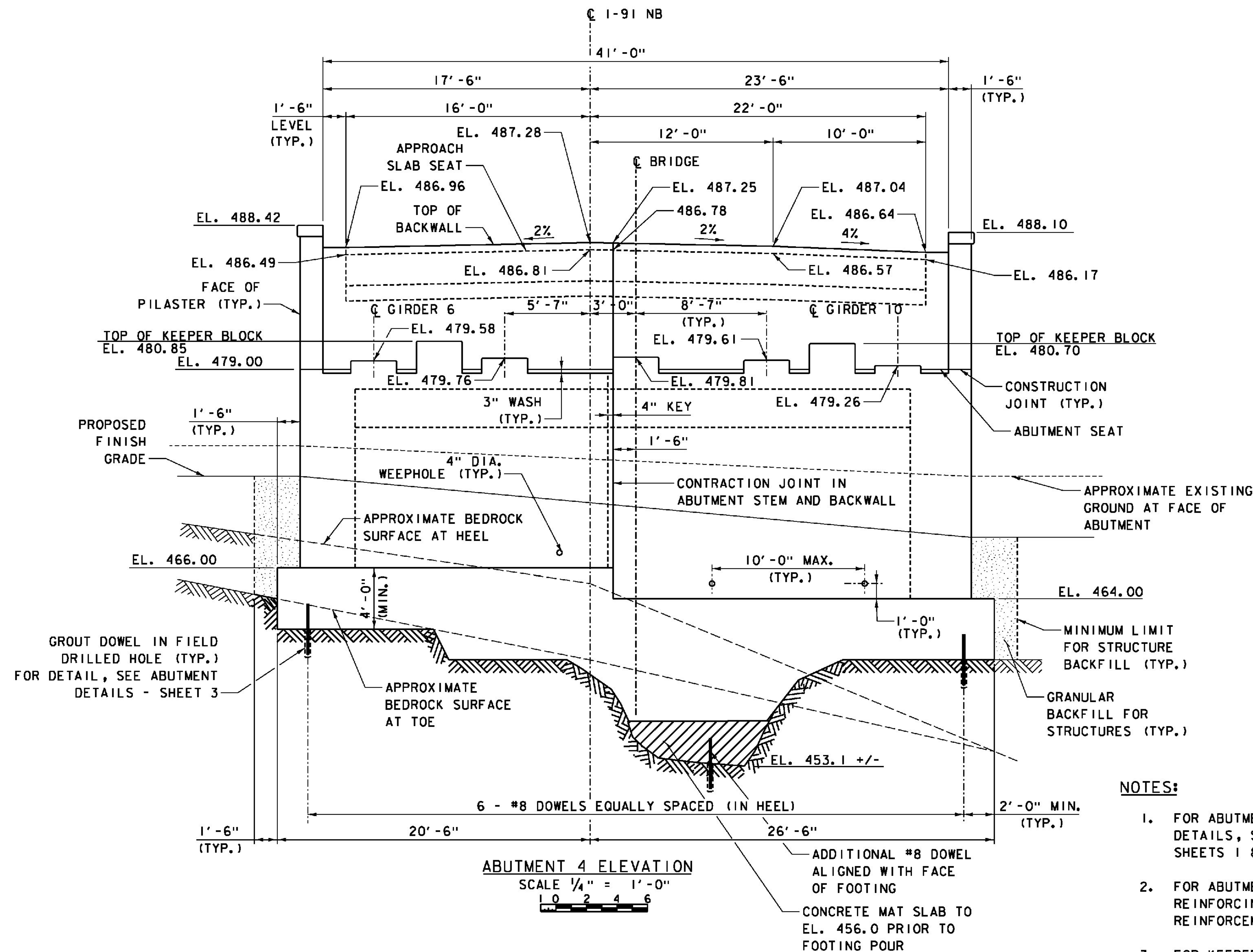


**FOUNDATION NOTES - SPREAD FOOTING ON BEDROCK**

- EXCAVATION FOR THE CONSTRUCTION OF SPREAD FOOTINGS ON BEDROCK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF VTRANS STANDARD SPECIFICATIONS SECTION 204, AND AS AMENDED BY THESE FOUNDATION NOTES.
- EXCAVATION SHALL BE PERFORMED TO THE BOTTOM OF THE FOOTING AS SHOWN ON THE PLANS, OR DEEPER AS REQUIRED TO BEAR ON COMPETENT BEDROCK. EXCAVATION SHALL EXTEND INTO BEDROCK TO PROVIDE THE MINIMUM FOOTING THICKNESSES IDENTIFIED ON THE PLANS. EXCAVATION SHALL BE SUFFICIENT TO EXPOSE A GENERALLY LEVEL COMPETENT BEDROCK SURFACE AS DETERMINED AND APPROVED BY THE ENGINEER.
- ALL FOOTINGS SHALL BEAR ENTIRELY ON COMPETENT BEDROCK.
- WEATHERED BEDROCK BELOW THE BOTTOM OF PROPOSED FOOTINGS SHALL BE COMPLETELY REMOVED. IF SLOPING BEDROCK IS ENCOUNTERED, THE BEDROCK SURFACE SHALL BE STEPPED IN ACCORDANCE WITH THE FOLLOWING: LOCALIZED AREAS OF REMOVAL BELOW THE BOTTOM OF PROPOSED FOOTING SHALL BE PREPARED SUCH THAT THE EXCAVATED ROCK FACE BETWEEN LEVEL AREAS IS BETWEEN 45 DEGREES FROM HORIZONTAL AND AS CLOSE TO VERTICAL AS PRACTICAL. THE LIMITS OF BEDROCK REMOVAL AND PREPARATION OF THE SURFACE SHALL BE OBSERVED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF ANY FOOTING CONCRETE.
- SNOW OR ICE, IF EXISTING, SHALL BE COMPLETELY REMOVED PRIOR TO FOUNDATION CONCRETE PLACEMENT.
- HORIZONTAL LIMITS OF BEDROCK REMOVAL SHALL BE SUFFICIENT TO ACCOMMODATE THE DESIGN FOOTING DIMENSIONS. LOOSE OR WEATHERED BEDROCK ADJACENT TO THE FOOTING BUT ABOVE THE PROPOSED BOTTOM OF FOOTING NEED NOT BE REMOVED PROVIDED THAT IT IS STABLE AND WILL SUPPORT THE VERTICAL FACE OF THE FOOTING DURING CONCRETE PLACEMENT AND CURING.
- THE AREAS OF BEDROCK REMOVAL BELOW THE PROPOSED BOTTOM OF FOOTING SHALL BE REPLACED WITH UNREINFORCED HIGH PERFORMANCE CONCRETE, CLASS B, PLACED AT THE SAME TIME AS THE FOOTINGS, UNLESS OTHERWISE SHOWN. REINFORCING STEEL SHALL BE PLACED AS SHOWN ON THE PLANS.
- STEPPED FOOTING SEGMENTS AS SHOWN ON THE PLANS SHALL BE PLACED IN SEPARATE CONCRETE PLACEMENTS.
- REINFORCING STEEL DOWELS SHALL BE CORRECTLY SPACED AND PLACED INTO THE PREPARED BEDROCK SURFACE EXTENDING INTO THE PROPOSED FOOTING CONCRETE WHERE INDICATED ON THE PLANS.



**NOTES:**

- FOR ABUTMENT 4 FOOTING REINFORCING DETAILS, SEE ABUT. 4 REINFORCEMENT - SHEETS 1 & 2.
- FOR ABUTMENT 4 STEM, SEAT AND BACKWALL REINFORCING DETAILS, SEE ABUT. 4 REINFORCEMENT - SHEET 2.
- FOR KEEPER BLOCK DETAILS, SEE ABUTMENT DETAILS - SHEET 2.
- FOR ADDITIONAL PILASTER, PEDESTAL AND CONSTRUCTION JOINT DETAILS, SEE ABUTMENT DETAILS - SHEET 1.
- FOR CONTRACTION JOINT DETAIL, SEE ABUTMENT 3 ELEVATION AND SECTION SHEET.
- EMBANKMENT AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED UPON COMPLETION OF THE WORK BY INSTALLING TOPSOIL, SEED AND HAY MULCH.

ITEMS USED ON THIS SHEET	
ITEM NO.	DESCRIPTION
203.16	SOLID ROCK EXCAVATION
204.25	STRUCTURE EXCAVATION
204.30	GRANULAR BACKFILL FOR STRUCTURES
501.33	CONCRETE, HIGH PERFORMANCE CLASS A
501.34	CONCRETE, HIGH PERFORMANCE CLASS B
507.16	DRILLING AND GROUTING DOWELS
514.10	WATER REPELLENT, SILANE
651.15	SEED
651.25	HAY MULCH
651.35	TOPSOIL

PROJECT NAME: WINDSOR	PLOT DATE: 7/30/2015
PROJECT NUMBER: IM 091-1(64)	DRAWN BY: S. GUNN
FILE NAME: z10o188Abut4E.dgn	CHECKED BY: S. HALLORAN
PROJECT LEADER: J. WILSON	SHEET 126 OF 156
DESIGNED BY: S. BOYINGTON	
ABUTMENT 4 ELEVATION	