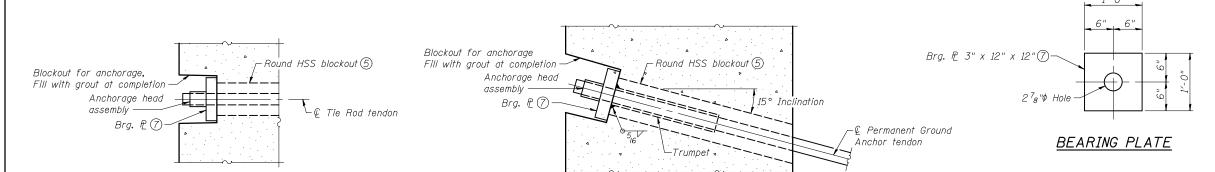


APPROACH BENT

SEQUENCE OF ABUTMENT & APPROACH BENT SYSTEM CONSTRUCTION

- 1. Construct abutments and approach bents.
- 2. Install Tie Rod assemblies. Apply a 10 kip tensile load to each Tie Rod and transfer load to anchorage device in accordance with the Special Provisions.
- 3. Grout Tie Rod anchorage head assembly and round HSS blockout.
- 4. Backfill behind approach bent.
- 5. Install Permanent Ground Anchor system and load test in accordance with the Special Provisions. Reduce test load to specified lock off load and transfer load to anchorage device.
- 6. Grout Permanent Ground Anchor anchorage head assembly and round HSS blockout if not previously grouted.
- 7. Backfill between abutment and approach bent as required and construct approach slabs.



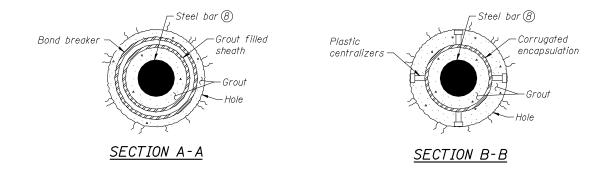
DETAIL B

BILL OF MATERIAL

Item	Unit	Quantity
Permanent Ground Anchor	Each	14
Tie Rod	Each	14

- ① For Tie Rod spacing, see Abutment and Approach Bent details. Self weight of Tie Rod tendon shall be supported its entire length before tendons are stressed.

- (2) For Permanent Ground Anchor spacing, see Approach Bent Details.
 (3) Actual length as required by Contractor design.
 (4) Length measured along & Tie Rod.
 (5) For round HSS blockout details, see Abutment and Approach Bent details. Fill round HSS blockout with grout after completion.
- 6 The design of the Tie Rod tendon and Permanent Ground Anchor tendon is based on deflection requirements. Substitution of a smaller diameter or material other than those specified will not be allowed.
- 7 The structural steel bearing plates shall conform to the requirements of AASHTO M 270 Grade 50.
- (8) Round solid steel bars conforming to the requirements of AASHTO M 275 Grade 150 with a nominal diameter of 2^{l_2} " shall be used for the tendons of both the Tie Rod and the Permanent Ground Anchor.
- For subgrade below slab, see Section Thru Pile Supported Stub Abutment on sheet 2 of 53 and Section A-A on sheets 20 and 23 of 53.

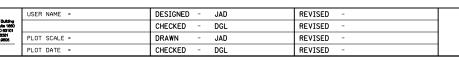






ABUTMENT

DETAIL A





TIE ROD AND PERMANENT GROUND ANCHOR DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 039-0075 (E.B.)	331	(12-1)B-1	JACKSON	200	98
0111001011L 140: 033-0073 (E.D.)			CONTRACT	NO. 7	8056
SHEET NO. 39 OF 53 SHEETS		TILITNOIS FED. AT	D PROJECT		