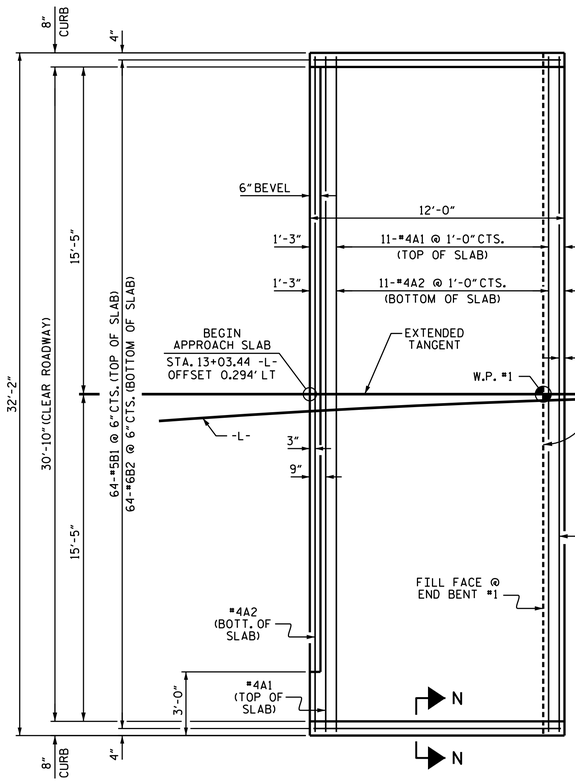
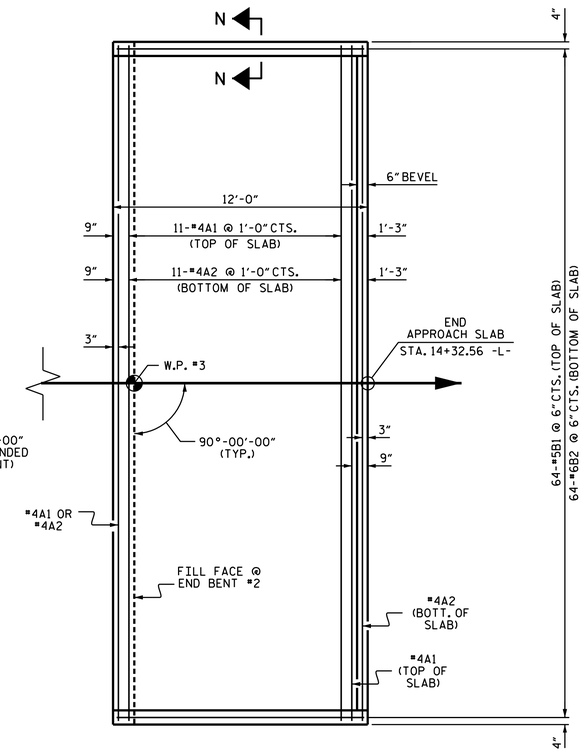



PLAN @ END BENT #1




PLAN @ END BENT #2

DIMENSIONS SHOWN ARE TYPICAL FOR BOTH APPROACH SLABS

## NOTES

FOR BRIDGE APPROACH FILL INCLUDING GEOTEXTILE, DRAINAGE PIPE, AND SELECT MATERIAL BACKFILL, SEE ROADWAY PLANS.

GEOTEXTILE SHALL BE TYPE 1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1056.

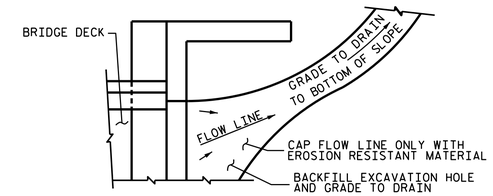
SELECT MATERIAL BACKFILL (CLASS V OR CLASS VI) SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 1016.

SELECT MATERIAL BACKFILL IS TO BE CONTINUOUS ALONG FILL FACE OF BACKWALL FROM OUTSIDE EDGE TO OUTSIDE EDGE OF APPROACH SLAB.

FOR THE DRAINAGE PIPE OUTLET(S), SEE ROADWAY STANDARD DRAWINGS.

AREA BETWEEN THE WINGWALL AND APPROACH SLAB SHALL BE GRADED TO DRAIN THE WATER AWAY FROM THE FILL FACE OF THE BRIDGE AND SHALL BE PAVED. SEE ROADWAY PLANS.

APPROACH SLAB GROOVING IS NOT REQUIRED.




NOTE: IF THE APPROACH SLAB IS NOT CONSTRUCTED IMMEDIATELY AFTER THE BACKFILLING OF THE END BENT EXCAVATION, GRADE TO DRAIN TO THE BOTTOM OF THE SLOPE AND PROVIDE EROSION RESISTANT MATERIAL, SUCH AS FIBERGLASS ROVING OR AS DIRECTED BY THE ENGINEER TO PREVENT SOIL EROSION AND TO PROTECT THE AREA ADJACENT TO THE STRUCTURE. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THESE MATERIALS PRIOR TO CONSTRUCTION OF THE APPROACH SLAB.

TEMPORARY DRAINAGE DETAIL

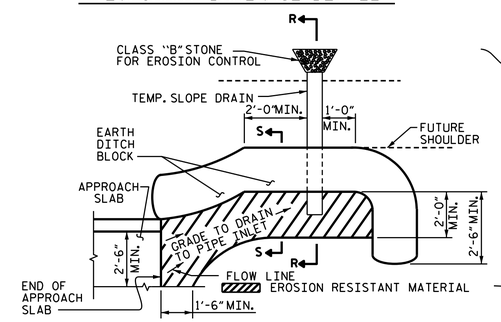
## BILL OF MATERIAL

### APPROACH SLAB AT EB #1

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| * A1 | 13 | #4 | STR | 31'-10" | 276 |
| A2 | 13 | #4 | STR | 31'-10" | 276 |
| * B1 | 64 | #5 | STR | 11'-2" | 745 |
| B2 | 64 | #6 | STR | 11'-8" | 1121 |
| REINFORCING STEEL | | | | LBS. | 1397 |
| * EPOXY COATED REINFORCING STEEL | | | | LBS. | 1021 |
| CLASS AA CONCRETE | | | | C.Y. | 18.4 |

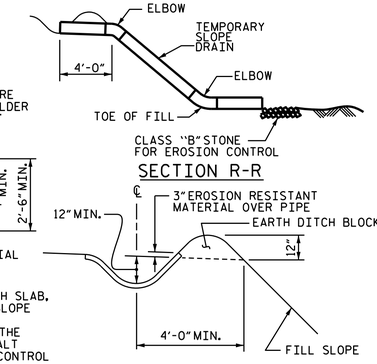
### APPROACH SLAB AT EB #2

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| * A1 | 13 | #4 | STR | 31'-10" | 276 |
| A2 | 13 | #4 | STR | 31'-10" | 276 |
| * B1 | 64 | #5 | STR | 11'-2" | 745 |
| B2 | 64 | #6 | STR | 11'-8" | 1121 |
| REINFORCING STEEL | | | | LBS. | 1397 |
| * EPOXY COATED REINFORCING STEEL | | | | LBS. | 1021 |
| CLASS AA CONCRETE | | | | C.Y. | 18.4 |



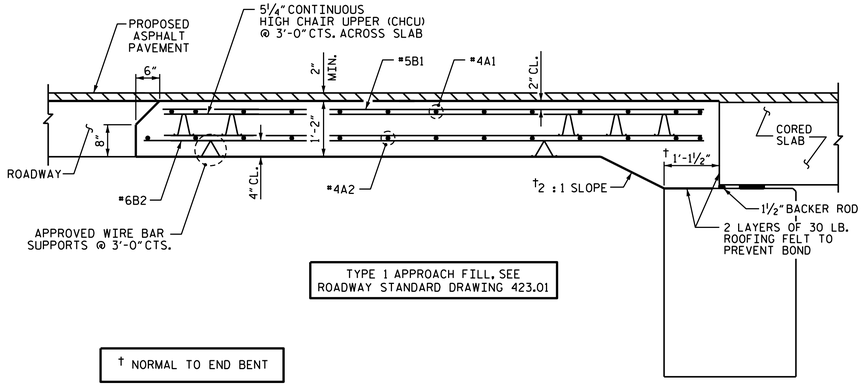

NOTE: IMMEDIATELY AFTER THE CONSTRUCTION OF THE APPROACH SLAB, THE CONTRACTOR SHALL PROVIDE TEMPORARY BERM AND SLOPE DRAIN. CONTRACTOR SHALL GRADE TO PIPE INLET AND PROVIDE EROSION RESISTANT MATERIAL AS SHOWN. THE EROSION RESISTANT MATERIAL SHALL BE EITHER 1) ASPHALT PLANT MIX, TYPE 1 OR TYPE 2, MIN. 2" DEPTH, 2) EROSION CONTROL MAT, OR 3) CONCRETE, AS DIRECTED BY THE ENGINEER. THE SLOPE DRAIN SHALL CONSIST OF A NON-PERFORATED TEMPORARY DRAINAGE PIPE, 12 INCHES IN DIAMETER.

PLAN VIEW




TEMPORARY BERM AND SLOPE DRAIN DETAILS

(TO BE USED WHEN SHOULDER BERM GUTTER IS REQUIRED)

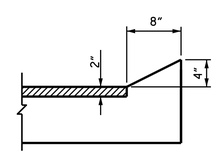



TYPE 1 APPROACH FILL, SEE ROADWAY STANDARD DRAWING 423.01

† NORMAL TO END BENT

SECTION THRU SLAB

| SPLICE LENGTHS | | |
|---|---|---|
| BAR SIZE | EPOXY COATED | UNCOATED |
| #4 | 1'-11" | 1'-7" |
| #5 | 2'-5" | 2'-0" |
| #6 | 3'-7" | 2'-5" |




SECTION N-N

CURB DETAILS

PROJECT NO. BP1-R002

NORTHAMPTON COUNTY

STATION: 13+68.00 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

# BRIDGE APPROACH SLAB FOR PRESTRESSED CONC. CORED SLAB UNIT (SUB-REGIONAL TIER)

90° SKEW

NORTH CAROLINA PROFESSIONAL SEAL 048992 ENGINEER ELIZABETH C. PHELPS

DocuSigned by: Elizabeth Phelps A304598A0627455... 10/10/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-19 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 19 |


VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606


| | | | |
|---|---|---|---|
| DRAWN BY : | E.C. PHELPS | DATE : | 08/2023 |
| CHECKED BY : | K.F. SMIACH | DATE : | 08/2023 |
| DESIGN ENGINEER OF RECORD: | E.C. PHELPS | DATE : | 08/2023 |


10/10/2023
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8/26/21