

"GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH. REQ'D TYPICAL SECTION THRU ABUTMENT

BRIDGE

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STRUCTURE

- ABUTMENT BACKFACE

(A1 ABUTMENT WITH STRUCTURAL APPROACH)

STRUCTURAL

1.0 1.5

BACKFILL STRUCTURE

PAY LIMITS A

ROADWAY

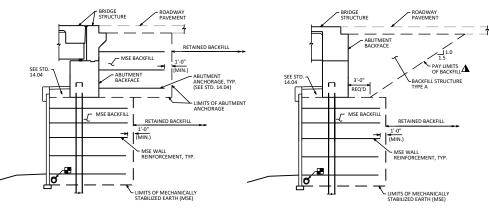
PAVEMEN'

1.5

PAY LIMITS OF BASE AGGREGATE DENSE 11/4"

TYPICAL SECTION THRU ABUTMENT

(A3 ABUTMENT WITHOUT STRUCTURAL APPROACH)



TYPICAL SECTION THRU ABUTMENT AT MSE WALL

(A3 ABUTMENT WITH ABUTMENT ANCHORAGE

TYPICAL SECTION THRU ABUTMENT AT MSE WALL



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

- = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT) = AVERAGE ABUTMENT FILL HEIGHT (FT)
- $H=AVENAGE ABUTMENT FILL HEIGHT (FT) EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS) <math display="block">V_{CF}=\{L(|3.0^n)(H)+(L)(0.5)(1.5H)(H)\\ V_{CY}=V_{CY}(EF)/27\\ V_{YOM}=V_{CY}(CF)$



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ABUTMENT

- = OUT TO OUT OF ABUTMENT BODY (FT) = AVERAGE ABUTMENT FILL HEIGHT (FT)
- = WING 1 LENGTH (FT) = WING 2 LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS) = (L)(3.0")(H) + (L)(0.5)(1.5H)(H) + (3.0")(0.5)(W1+W2)(H) = V_{CF}(EF)/27 = V_{CY}(2.0)

NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-_-" SHALL BE THE EXISTING GROUNDLINE.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTIMENTS AND ABUTIMENT WINGS FOR STEEL BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES."

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2:0" ABOVE BOTTOM OF ABUTMENT. (NOTE INTENDED FOR PILE SUPPORTED ABUTMENTS. SEE DESIGNER NOTES FOR MORE INFORMATION.)

DESIGNER NOTES

THE DESIGN ENGINEER SHOULD PROVIDE ALL NECESSARY BACKFILL PAY
LIMITS AND NOTES IN ORDER TO DETERMINE QUANTITIES, FOR ABUTMENTS. PROVIDE AN ABUTMENT BACKELL DIAGRAM AS SHOWN ON THIS SHEET SEE BRIDGE MANUAL SECTIONS 6.4.2 AND 9.10 FOR ADDITIONAL INFORMATION.

SUBSURFACE DRAINAGE DETAILS AND NOTES SHOULD DIRECT DRAINAGE 3 UBDURFALE JARANASE IS AND AND USES SHOULD DISKED DRAMASE OF THE STATE OF THE STAT

FOR ABUTMENTS WITH MSE BACKFILL BELOW THE REQUIRED "BACKFILL STRUCTURE TYPE A" WIDTH, PIPE UNDERDRAIN AND GEOTEXTILE ARE NOT REQUIRED BEHIND ABUTMENTS. PIPE UNDERDRAIN IS REQUIRED AT THE BOTTOM OF THE MSE WALL.

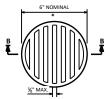
SEE STANDARD 9.02 FOR RETAINING WALL AND BOX CULVERT DETAILS.

SEE STANDARD 9.03 FOR WING FILL SECTIONS AT WING TIPS.

LEGEND

A BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. (SHOW DETAIL ON PLANS)





RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PV. GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRANER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EWOSED BOND OF THE PIPE UNDERFORAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLES STREEL SHEET IN TEXT ACREWS.

STRUCTURE BACKFILL **LIMITS AND NOTES 1**



APPROVED: Laura Shadewald

7-24