**Typical Section Thru Abutment**

- MSE backfill
- Reinforcement, typ.
- Pavement

**Typical Section Thru Abutment at MSE Wall**

- MSE backfill
- Reinforcement, typ.
- Pavement

**Abutment Backfill Diagram for Wings Parallel to Roadway**

- <diagram showing abutment backfill details>

**Abutment Backfill Diagram for Wings Parallel to Abutment**

- <diagram showing abutment backfill details>

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**Notes**

- The upper limits of excavation for structures BR_--_ shall be the existing groundline.
- The lower limits of excavation for structures BR_--_ shall be the existing groundline.
- The excavation quantities are based on the pay limits shown on the plans for the entire length of the abutment or length of the abutment as shown on the plans. For abutments with structural approach to MSE, the MSE backfill shall be determined by the contractor, and the quantities shall be based on the plans and may not reflect actual placed quantities.
- The backfill quantities are based on the pay limits shown on the plans and may not reflect actual placed quantities.
- For abutments with MSE backfill below the required "backfill structure type A" required directly behind abutments, the MSE backfill shall be determined by the contractor, and the quantities shall be based on the plans and may not reflect actual placed quantities.
- Geotextile shall extend the entire length of the abutment body. The geotextile shall extend 2'-0" above bottom of abutment, "geotextile Type DF schedule A" limits.
- Subsurface drainage details and notes should direct drainage limits and notes in order to determine quantities. For abutments, or exceeding plan quantities shall be incidental to excavation, and the quantities shall be based on the plans and may not reflect actual placed quantities.
- The upper limits of excavation for structures Bridges B_--_ shall be determined by the contractor, and the quantities shall be based on the plans and may not reflect actual placed quantities.
- The backfill quantities are based on the pay limits shown on the plans and may not reflect actual placed quantities.

**Designer Notes**

- The design engineer should review all necessary details to ensure proper construction. The design engineer should review all necessary details to ensure proper construction. See standard 9.03 for Wing Fill Sections at Wing Tips. See standard 9.02 for retaining wall and box culvert details.

**Legend**

- Details shown on this sheet.

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**Structure Backfill Limits and Notes**

- Approved: Bill Oliva
- Date: 1-18

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**Rodent Shield Detail**

- Rodent shield, pipe coupling and screws shall be considered incidental to the bid item. The rodent shield is required for the attachment of the pipe. The rodent shield shall be installed prior to the pipe coupling and screws. The rodent shield shall be a pipe clamp similar to the detail shown. The pipe coupling and screws shall be considered incidental to the bid item. The rodent shield shall be a pipe clamp similar to the detail shown. The rodent shield shall be a pipe clamp similar to the detail shown.