ABUTMENT NOTES

1. The maximum factored applied footing pressure is XX ksf at the \_\_\_\_\_\_\_\_

Limit State.

2. Structural Earth Excavation required more than 12 inches below the bottom of

the structure will be paid for in accordance with Standard Specifications

Section 206, Structural Excavation.

3. Abutments, wingwalls, and their footings shall be backfilled with Granular

Borrow. Pay limits will be the structural excavation limits in cut areas and a

vertical plane located 10 feet behind the walls in fill areas.

4. Reinforcing steel shall have a minimum concrete cover of 2 inches in the

walls and 3 inches in the footings unless otherwise noted.

5. Place drains with a 4-inch diameter in the breastwall and wingwalls at 10

feet maximum spacing. The exact location will be determined by the Resident.

6. Cover joints where waterstops are not required in accordance with Standard

Details Section 502.

*~ The following note is used with precast superstructures ~*

7. Place the parapet portions of the wingwalls after erection of the precast

units.

*~ Use the following note for pile-supported integral abutment bridges ~*

8. Payment for the concrete jackets around the tops of the H-piles will not be

paid for directly but will be considered incidental to Pay Item 502.219

Structural Concrete Abutments and Retaining Walls. Fill Concrete may be used for

the concrete jackets.

*~ Use the following note on projects utilizing drainage geocomposite behind the*

*abutments ~*

9. Install Drainage Geocomposite behind the abutments and wingwalls up to the

approach slab seat elevation in accordance with Special Provision Section 620,

Drainage Geocomposite.

~ The following two notes are used when Transition Barriers are constructed on

return wingwalls. The first note may be eliminated if the bars noted are fully

detailed on the plans. In either case, the bars need to be included in the

reinforcing steel schedule and estimated quantities. ~

10. Provide 4 additional stirrups in the curbs at each Transition Barrier

location.

11. The Contractor shall install Transition Barrier vertical closed stirrups,

as shown in Standard Details Section 526, prior to the placement of the curb

concrete.

*~ The following two notes are used for abutments on bedrock. ~*

12. When bedrock protrudes above the bottom of footing, the footing may be

raised and the vertical reinforcing may be cut in the field with the approval of

the Resident. The minimum footing elevations are shown on the Plans and shall

not be lowered without prior approval of the Engineer of Record. Payment for

adjusting the footing elevations and reinforcing steel will be considered

incidental to the related Contract Items. No separate payment will be made.

13. At the option of the Resident, bedrock which protrudes above a horizontal

plane 12 inches below the proposed bottom of footing elevation may be removed.

Payment for bedrock removal shall be made under Item No. 206.092 Structural Rock

Excavation – Major Structures.

14. Abutment concrete shall be placed on bedrock cleaned of all weathered rock,

loose fractured rock and soil. The bedrock subgrade shall be confirmed to be

relatively level. Where the bedrock slope exceeds 4H:1V, the bedrock surface

shall be benched to create level steps or made completely level. The Resident

shall approve the bedrock subgrade prior to the placement of the abutment

concrete.

*~ Use the following note for abutment concrete placed “in-the-dry” (exposed*

*bedrock) ~*

15. Prior to placing abutment concrete, the bedrock subgrade shall be washed

with high-pressure water and air.