PLAN

Showing areas of undercut at each end
section and backfilling with coarse aggregate

Outline of Removal and Disposal
of Unsuitable Material for Structures (typ.)

℄ Tunnel

BILL OF MATERIAL

Item	Unit	Total
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	303
Granular Subgrade Replacement	Cu. Yd.	303

NOTES

1. Maximum design bearing pressure, q max, at base of wingwall footing = 3,300 psf.

2. The underlying soils at each end section require undercutting and backfilling with approved granular subgrade. The outline of the proposed undercut is indicated on the plan.

3. Excavation for the end section construction will be paid for as follows: Structure Excavation will be paid for down to the footing elevation. Removal and Disposal of Unsuitable Material for Structures will be paid for below the bottom of footing elevation. To determine quantities, a depth of undercut at the west end section has been assumed to be 8 feet and the depth of undercut at the east end section has been assumed to be 2 feet. Additional Stucture Excavation outside the normal excavation requirements of 2 feet to accommodate the removal of unsuitable material shall be included in the cost of Structure Excavation.

4. The site geotechnical engineer shall monitor the preparation of compacted subgrades, construction of structural fills, determine adequacy of foundation bearing capacity, monitor backfilling and installation of footings. All work associated with undercutting, verification of subgrade capacity and backfilling shall be performed in compliance with the requirements of the site geotechnical engineer.

5. The granular backfill for the undercuts shall conform to the Special Provision "Granular Subgrade Replacement."

USER NAME = rparrie		
DESIGNED - DLS	REVISED -
CHECKED - AEU	REVISED -
PLOT SCALE =	DRAWN - DLS	REVISED -
PLOT DATE = 5/11/2012	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNDERCUTS AT END SECTIONS
STRUCTURE NO. 045-3181

SHEET NO. 11 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	39

CONTRACT NO. 63667

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT