

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
517 L-M-3	BOONE	68	10
STA. TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

GENERAL NOTES

See cross sections for special ditches and backslopes.

The removal of Bituminous Surfacing not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 6 (modified) shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1 (modified). Class 6 (modified) shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the SEEDING or SODDING.

When mulch with emulsified asphalt is applied, it will be the contractor's responsibility to cover or protect all traffic signs, guardrail and curbs. Any signs, guardrail or curbs which become covered with asphaltic material shall be cleaned by the Contractor at his own expense.

Subbase Drains and Underdrain Specials shall be fully installed, operational, and outleted prior to the placement of any related pavement structure.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Placement and compaction of Trench Backfill for AR culverts shall conform to Section 502.10 of the Standard Specifications except that the material shall be compacted to a minimum of 95% of standard laboratory density. The entire excavation within 2' outside of each shoulder shall be back filled with Trench Backfill material. The pay limits for Trench Backfill shall extend from 2' outside each vertical culvert wall at the base of the culvert floor and shall extend vertically to the bottom of the proposed subgrade. This work shall be included in the unit price per Cubic Yard for TRENCH BACKFILL.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 15% to 40% by weight passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class 'D' quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

All embankment constructed of cohesive soil shall be constructed with not more than 10% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the 75 µm (#200 sieve). The 10% of optimum moisture limit may be waived in free-draining granular material when approved by the Engineer.

Replace missing RAISED PAVEMENT MARKERS as directed by the Engineer.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Binder	L. Binder	Top Shoulder	Bottom Shoulder
PG:	64-22	64-22	64-22	58-22	58-22
RAP% (Mcx)	15%	25%	25%	30%	30%
Design Air Voids	4.2 @ N50	4.2 @ N50	4.2 @ N50	3.0	2.0
Mixture Composition (Gradation Mixture)	IL 12.5	IL 19.0	IL 9.5	IL 12.5	BAM
Friction Aggregate	D	N/A	N/A	C	C
20 Year ESAL	0.5	0.5	0.5	N/A	N/A

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180-degrees and only metal-backed delineators shall be permitted.

The Contractor shall salvage existing delineators within the project limits and place one at each headwall or end section of AR culverts. The work shall be included in the contract unit price for END SECTIONS, EQUIVALENT ROUND SIZE 15", PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND SIZE 18", PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND SIZE 18", and RELOCATE EXISTING FLARED END SECTION. Where new delineators are required if there are not enough salvageable delineators, they shall be placed per District 2 Detail 37.4, Delineator and Post, and paid for as DELINEATOR (SPECIAL).

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

The underdrain system scheduled on this project is to be constructed in accordance with Section 601 of the Standard Specifications for Road and Bridge Construction, except when the Recurring Special Provision Pipe Underdrains is included, the fabric envelope encasement of the pipe shall be omitted.

Pavement Marking shall be done according to Standard 780001, except as follows:

- All words, such as ONLY, shall be 2.4 m (8 feet) high.
- All non-freeway arrows shall be the large size.
- The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

All gutter outlets shall be extended to ditch flow as directed by the Engineer.

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

The Contractor shall place contraction joints in prolongation with joints in the existing pavement. The joint shall be a sawed contraction joint with dowel bar assembly as shown on Highway Standard 420001. The cost for this work shall be included in the contract unit price for the PCC PAVEMENT.

Tie bars shall be installed to tie PCC appurtenance to adjacent existing concrete pavement.

Tie the following to the existing concrete pavement Length, size, and spacing of Tie Bars

Cutter or Curb & Gutter	Std. 606001	600 mm (24") long No. 20 (No. 6) @ 600 mm (24") centers
PCC Base Course	Std. 353001	600 mm (24") long No. 20 (No. 6) @ 750 mm (30") centers
PCC Pavement	Std. 420101	600 mm (24") long No. 20 (No. 6) @ 750 mm (30") centers

All tie bars shall be epoxy coated.

Tie bars to be installed in accordance with the applicable portions of Article 420.10(b) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the existing pavement.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

All signs within construction limits shall be removed and stored for reuse when applicable. The Contractor shall install the signs as directed by the Engineer and the City. Signs that are not used shall become the properties of the City and/or IDOT where applicable. This work will be included in the unit price for Earth Excavation.