



At-Grade Side Road Intersection, Types B1, B2, C and D and Tee Intersection Bypass Lane

References:

FDM 11-25-1

Bid items associated with this drawing:

ITEM NUMBER	<u>DESCRIPTION</u> <u>UI</u>	NIT
205.9011.S	Grading and Shaping Intersection (location) EA	
205.9016.S	Grading Shaping and Finishing Intersection (location; var. pavements) EA	ſCH
305.0110 - 0135	Base Aggregate DenseTON or	CY
465.0315	Asphaltic Flumes	SY
601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	.LF
601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	.LF
601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	.LF
601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	.LF
602.3010	Concrete Surface Drains	

Standardized Special Provisions associated with this drawing:

STSP NUMBER	TITLE	
205-010	Grading and Shaping Intersection (location)	
205-015	Grading Shaping and Finishing Intersection (location)	
Use these provisions if the work is not covered under standard grading bid items.		

Other SDDs associated with this drawing:

SDD 8D1	Concrete Curb, Concrete Curb & Gutter and Ties
SDD 8D4	Concrete Surface Drains & Asphaltic Flumes
SDD 9A1	At-Grade Side Road Intersection sheet "b" is required.
SDD 13C16	Detail for Right Turn Lane/ Tee Intersection Bypass on a Concrete Road
SDD 13C35	Pavement Marking, Intersections

Design Notes:

See <u>FDM 11-25-1</u> for selection criteria for Types B1, B2, C and D Intersections and Tee Intersection Bypass I are

These intersection designs will accommodate the turning of the WB-50 design vehicle; however, the WB-50 vehicle turning right into or from the Type C intersection will encroach into the opposing traffic lane.

Special evaluation and modification of these intersection details may be warranted for major intersections on designated long truck routes to accommodate the WB-65 design vehicle.

Fullwidth turn lane lengths apply to both left turn lanes and right turn lanes for traffic entering the same side road leg of the intersection. Provide a longer turn lane based on needed storage to accommodate queuing Design Hour Traffic, or there is a high volume of truck turning movements.

The Type B1 and B2 design do not apply when the side road is on curved alignment at the intersection. For this situation extend the full width curbed cross-section 50 feet minimum into the curve. Provide special details.

Specify sod, topsoil or salvaged topsoil and seed & fertilize to a 3'-0" width in back of the curb & gutter sections.

If curb & gutter is built under a separate contract from the grading work, the designer must specify who is responsible for backfilling the two feet behind the curb & gutter.

Use SDD 13C16 in conjunction with this sheet if the roadway is PC concrete pavement.

Contact Person:

John Jenkins (608) 267-6975

At-Grade Side Road Intersection, Type A1 and A2

References:

FDM 11-25-1

STSP NUMBER

Bid items associated with this drawing:

ITEM NUMBER	<u>DESCRIPTION</u>	<u>UNIT</u>
305.0110 - 305.0135	Base Aggregate Dense	.TON or CY
205.9011.S	Grading & Shaping Intersection	LOCATION
205.9016.S	Grading Shaping & Finishing Intersection (location; var. pavement)	EACH
465.0315	Asphaltic Flumes	SY
601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF
601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF
601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF
601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF
602.3010	Concrete Surface Drains	CY

Standardized Special Provisions associated with this drawing:

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OTOI NOWDER	TITLE
205-010	Grading & Shaping Intersection (location)
205-015	Grading Shaping & Finishing Intersection (location)
Use these provisions if	the work is not covered under standard grading bid items.

Other SDDs associated with this drawing:

Concrete Curb, Concrete Curb & Gutter and Ties
Concrete Surface Drains & Asphaltic Flumes
At-Grade Side Road Intersections sheet "a"

SDD 13C16 Detail for Right Turn Lane/ Tee Intersection Bypass on a Concrete Road

Design Notes:

See <u>FDM 11-25-1</u> for selection criteria for Type A1 and A2 intersections.

Type A1 and A2 intersection design will accommodate a WB-65 design vehicle. There may be some encroachment onto the curb flag at some intersection angles.

Full-width turn lane lengths apply to both left turn lanes and right turn lanes for traffic entering the same side road leg of the intersection. Provide a longer turn lane based on needed storage to accommodate queuing Design Hour Traffic, or there is a high volume of truck turning movements.

The Type A1 and A2 intersection design does not apply when the side road is on curved alignment at the intersection. For this situation extend the full width curbed cross section 50 feet minimum into the curve. Provide special details.

Show island surface type and related details elsewhere in the plan.

Specify sod, topsoil or salvaged topsoil and seed & fertilize to a 3'-0" width at back of the curb & gutter sections.

If curb & gutter is built under a separate contract from the grading work, the designer must specify who is responsible for backfilling the two feet behind the curb & gutter.

SDD 9A1-a must be used in conjunction with this sheet.

Use SDD 13C16 in conjunction with this sheet if the roadway is PC concrete pavement.

Contact Person:

John Jenkins (608) 267-6975