FLARED CURB TERMINUS

1. Curb for flared curb terminus will be measured under curb items. Adjust as necessary to fit field conditions.

2. Riprap and revet mattress for curb terminus on mainline will be measured under their respective pay items.

CURB TAPER

NOTES:

- Riprap apron or revet mattress for curb terminus on mainline will be measured under their respective pay items.

- Curb for flared curb terminus will be measured under curb items. Adjust as necessary to fit field conditions.

- Use 2.0' if necessary.
# Notes to the Designer

## Updated June 2021

### Underdrain

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>- All graphics and text will be in the sheet model.</td>
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<table>
<thead>
<tr>
<th>Applicable SCRs</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Typical Pay Item Used</th>
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<tbody>
<tr>
<td>- 60501-0000 Standard underdrain system [LNFT]</td>
</tr>
<tr>
<td>- 60502-0000 Geocomposite underdrain system [LNFT]</td>
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<table>
<thead>
<tr>
<th>Updates</th>
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<tbody>
<tr>
<td>- June 2021</td>
</tr>
<tr>
<td>- Updated for OpenRoads Designer</td>
</tr>
</tbody>
</table>
FULL DEPTH CONCRETE CURB

3. Backfill all concrete curbs along paved ditches.
6" ASPHALT AND CONCRETE CURB
CURB AT GUARDRAIL LOCATIONS

TYPICAL CURB AT GUARDRAIL LOCATIONS

The placement of asphalt curb may be adjusted by the CO.

See miscellaneous summaries for locations of asphalt curb.

3. See miscellaneous summaries for locations of asphalt curb.

4. The placement of asphalt curb may be adjusted by the CO.

CURB AT GUARDRAIL LOCATIONS
Concrete setting bed
Asphalt pavement
Concrete sidewalk

STONE CURB

Note: For tangent sections use stone 24" to 48" in length.

STONE CURB DETAIL

PLAN

Length varies 2' - 4'
9" - 11"
7" - 9"
7" - 9"

ELEVATION

END

STONE CURB GEOMETRY

Curb stone
Flow line
4" curb reveal (typ.)
6" curb reveal (typ.)

RAISED STONE CURB SECTION

Sidewalk - Asphalt Pavement

Asphalt pavement or concrete sidewalk
Concrete setting bed
4" min. roadway aggregate

Curb stone
See section 609.04
Flow line
1" - 3"
2" (typ.)

(2) #4 rebar, continuous

RAISED STONE CURB SECTION

Sidewalk - Asphalt Pavement

Concrete setting bed
4" min. roadway aggregate

Asphalt pavement
Curb stone

CTMB detail

Maintain 2" min. of cover on rebar in setting bed.

RAISED STONE CURB SECTION

Sidewalk - Asphalt Pavement

Concrete setting bed
4" min. roadway aggregate

Asphalt pavement
Curb stone

CTMB detail

Note: This detail is for radii 5' or less. For larger radii use stone 15" to 24" in length

3. Maintain 6 inches of curb reveal from top of final asphalt grade abutting curb, to top of curb (typ.).

4. Ensure mortar joints are flush with curb.

5. Tamp backfill behind curb a minimum distance of one foot. Cover tamped area with 3" of topsoil or as approved by the CO.

6. The stone curb shown on this sheet abuts asphalt paving unless otherwise indicated.

7. Maintain 2" min. of cover on rebar in setting bed.
CURB AND GUTTER

TYPICAL CURB AND GUTTER SECTION

CURB AND GUTTER, CONCRETE 12-INCH DEPTH
CURB CUT AND PAVED APRON AT HEADWALL

PLAN VIEW

SECTION A-A

CURB CUT AT HEADWALL
Place at least xx ft by xx ft wide gutter at ##% slope as directed by the CO.

Additional curb for curb cuts on mainline will be measured under curb items. Riprap and revet mattresses for curb cuts will be measured under their respective pay items.

FILL SIDE CURB CUT

CUT SIDE CURB CUT

FILL AND CUT SIDE CURB CUTS
CURB CUT AT PULLOUT

Edge of traveled way

Normal edge of pavement

x' R

Overlap

Continue pavement xx' wide, grade to drain

Pullout curb (not for drainage)
CURB CUT AT DRIVEWAY WITH GUTTER

CURB CUT FOR DRIVEWAYS

Transition when there is no sidewalk at back of curb or when no sidewalk is set back from curb

CONCRETE GUTTER
SECTION A-A

Poured joint
This joint required where length of slab exceeds 15 feet

TRANSITION CURB AND GUTTER
TO DRIVEWAY GUTTER, CONCRETE

TRANSVERSE CONTRACTION JOINT
FOR CONCRETE PAVEMENT (DRIVEWAYS)

# Install expansion joints when abutting existing concrete or fixed structure. The expansion joints are 1/4” thick and extend the full depth of contact surface.

Curved line

See note #
PAVED DITCH

TYPICAL PAVED DITCH SECTION

See mainline typical section for pavement structural section

Curb and Gutter, Concrete 12-inch depth
See detail

Paved ditch pay limits
(aggregate base paid separately)

Traveled way
Varies

I:8

Existing ground

Asphalt curb
6-inch depth
See detail

PAVED DITCH

TYPICAL PAVED DITCH SECTION

See mainline typical section for pavement structural section

Paved ditch pay limits
(aggregate base paid separately)

Traveled way
Varies

I:8

Curb backfill material

x' shldr

variable

x'

x'

x'

x'

x' shldr
Locate profile grade of gutters at the flow line.

ASPHALT GUTTER

GUTTER, CONCRETE
6-INCH DEPTH

Concrete pavement
Reinforcement
6"

Pay limits
24" 24"
2"min. 1:12 1:12

See mainline typical section for pavement structural section
TRANSITION GRADED DITCH

CONCRETE GUTTER
SECTION B-B

TRANSITION GRADED DITCH TO DRIVEWAY CONCRETE GUTTER

DITCH TO GUTTER TRANSITION