61, 12'' OR 26'-01, 12''.
6'' OR 25'-0''.

OPT.

0 CD

W6x8.5

SYMMETRICAL ABOUT RAIL

RAIL SPLICE ELEMENT

RAIL BOLT SLOT

RAIL SPLICE

RAIL post slot

POST

GUIDE RAIL DETAILER

BEAM GUIDE RAIL POST ASSEMBLY

STEEL WASHER

2'-4'' FOR 6'' POST

GROUND LINE

RAIL SPLICE

BEAM GUIDE RAIL

END SECTION (ROUNDED)

BUTTERFLY-TYPE GUIDE RAIL DELINEATOR

GENERAL NOTES:
1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
2. FURNISH RAIL ELEMENTS SHOULDCURVED, CONCAVE OR CONVEX FOR RADIUS BETWEEN 30 AND 60 FEET.
3. WHERE TRANSITIONING FROM EXISTING GUIDE RAIL, AN END TERMINAL OR A CRASH CUSHION MOUNTED AT A HEIGHT OTHER THAN 2'-7'', THE VERTICAL TRANSITION TO BE ACCOMPLISHED IN A MINIMUM LENGTH OF 6'-4'' FOR EACH 2'' OF VERTICAL ORANGE SEE CD-609-B.
4. INSTALL AN END TERMINAL AS SHOWN ON THE PLANS USE THE END SECTION (ROUNDED) ON THE END OF THE RAIL ELEMENT WHERE DUAL FACED BEAM GUIDE RAIL ENDS AND SINGLE FACED BEAM GUIDE RAIL BEGINS.

BEAM GUIDE RAIL (MASH TL-3) CD-609-1

N.T.S.

CONSTRUCTION OF FROM TO *** TOWNSHIP***

**-***-****

MONTH YEAR

CD-609-1

NOTE:

6''x8''x14'' BLOCKOUT

APPROVED RECYCLED SYNTHETIC MATERIALS

A-A

B-B

W6x8.5 STEEL POST

OPT.

OPT.

OPT

POST Bolt Slot

SPLICE Bolt Slot

RAIL Bolt Slot

SPLICE BOLT SLOTS

RAIL BOLT SLOTS

SPICE BOLT SLOTS

RAIL ELEMENTS

8 - SPLICE BOLTS

POST

BLOCK OUT

RAIL SPLICE

RAIL ELEMENTS

BUTTERFLY-TYPE GUIDE RAIL DELINEATOR

NOTE:

Diameters shown may vary for reclaimed/synthetic blockouts.
NOTES:
1. RUB RAIL MAY BE SUPPLIED IN LENGTHS OF 12'-5" OR 24'-11"
2. ALL RECTANGULAR SLOTS ARE 7/16" x 2", ALL SQUARE HOLES ARE 7/16"

C6 x 8.2

SECTION A-A

BENT PLATE

2 SPACES @ 1/2"

C6 x 8.2 PLATE

RUB PLATE

NOTES:
1. USE EITHER C6 x 8.2 OR BENT PLATE FOR RUB RAIL.
2. INSTALL RUB RAIL WHERE SHOWN ON THE PLAN.
TANGENT GUIDE RAIL TERMINAL

FLARED GUIDE RAIL TERMINAL AND TANGENT GUIDE RAIL TERMINAL (MASH TL-3)

NOTES:

1. NUMBER OF POSTS, TYPE OF POST, POST SPACING, FLARE RATE, AND MATERIALS TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE DEPARTMENT'S QUALIFIED PRODUCTS LIST.

2. RAIL SPLICE LOCATIONS MAY VARY. SEE MANUFACTURER'S OPTIONAL PANEL CONFIGURATIONS.

3. WHERE GUIDE RAIL IS INSTALLED Flush WITH THE GUTTER LINE, CONSTRUCT THE TANGENT TERMINAL WITH A STRAIGHT FLARE FOR ITS ENTIRE LENGTH TO PROVIDE A ONE FOOT OFFSET SO THAT THE EXTRUDER HEAD DOES NOT PROTRUDE INTO THE ROADWAY.

4. WHERE THE DOWNSTREAM GUIDE RAIL IS ON A HORIZONTAL CURVE, CONSTRUCT THE FLARED OR TANGENT TERMINAL IN A STRAIGHT LINE AS SHOWN ON THIS DETAIL (DO NOT FOLLOW THE HORIZONTAL CURVE).

FLARED GUIDE RAIL TERMINAL

LENGTH OF NEED

POST 9 POST 8 POST 7 POST 6 POST 6 POST 4 POST 3 POST 2 POST 1

PAY LIMIT BEAM GUIDE RAIL

35'-0" PAY LIMIT TANGENT TERMINAL

55'-0" TANGENT TERMINAL

APPROACH END AS PER MANUFACTURER

PLASTIC COVER WITH REFLECTIVE SHEETING

TANGENT GUIDE RAIL TERMINAL

LENGTH OF NEED

POST 9 POST 8 POST 7 POST 6 POST 6 POST 4 POST 3 POST 2 POST 1

PAY LIMIT BEAM GUIDE RAIL

40'-7½" PAY LIMIT FLARED TERMINAL

37'-6" FLARED TERMINAL

APPROACH END AS PER MANUFACTURER

PLASTIC COVER WITH REFLECTIVE SHEETING
WHERE CLEARANCE FROM FACE OF RAIL TO OBSTRUCTION IS 4' OR GREATER (SEE NOTE 2)

WHERE CLEARANCE FROM FACE OF RAIL TO OBSTRUCTION IS 3.5' OR GREATER BUT LESS THAN 4' (SEE NOTE 2)

WHERE CLEARANCE FROM FACE OF RAIL TO OBSTRUCTION IS 2.5' OR GREATER BUT LESS THAN 4' (SEE NOTE 2)

CLEARANCE FROM FACE OF RAIL TO OBSTRUCTION

BEAM GUIDE RAIL TREATMENTS

VERTICAL TRANSITION TO EXISTING 27 1/2" HIGH GUIDE RAIL

NOTE: WHERE TRANSITIONING TO EXISTING GUIDE RAIL AN END TERMINAL OR A CRASH CUSHION MOUNTED AT A HEIGHT OTHER THAN 2'-7", THE VERTICAL TRANSITION SHALL BE ACCOMPLISHED IN A MINIMUM LENGTH OF 6'-6" FOR EACH 2" OF VERTICAL CHANGE.
NOTES:

1. A minimum of ten 6'-3" post spaces of tangent guide rail are required between the outer edge posts of consecutive 6'-3" or 25'-0" unsupported spans.

2. The outer edge posts must be a minimum of ten 6'-3" post spaces from the approach end of a tangent terminal, fourteen 6'-3" post spaces from the approach end of a flared terminal and eight 6'-3" post spaces from the beginning of a flare or reduced post spacing.

3. The outer edge posts must be a minimum of ten 6'-3" post spaces from the last post of an end anchorage.

4. The outer edge posts must be a minimum of six 6'-3" post spaces from a threecore beam to W-Beam asymmetrical transition section.

5. Where there is curb, the maximum curb height is 2" from 25' in advance of the first curb post on the approach end to 25' past the last curb post on the trailing end.

6. The required clear area free of fixed objects is 7' for an 18'-9" unsupported span and 8' for a 25'-0" unsupported span.

7. If there is a vertical dropoff behind the unsupported span, the face of rail must be a minimum of 3' from the dropoff.

18'-9" or 25'-0" Unsupported Span

CD-609-SA.1

NOTES:

1. Where guide rail is adjacent to curb, it is placed with the gutterline of offset for sliding curb and required to an offset of 2' or smaller. A vertical transition is required in a minimum length of 6' for each 3' of vertical change.


3. 2'-0" for modified three beam guide rail.

4. For E/0 Ergo curb face of rail is offset 6" from gutter line.

12'-6" Unsupported Span

CD-609-SA.2

NOTES:

1. A minimum of nine 6'-3" post spaces of tangent guide rail are required between two consecutive single post omissions.

2. The omitted post must be a minimum of ten 6'-3" post spaces from the approach end of a tangent terminal, eleven 6'-3" post spaces from the approach end of a flared terminal, and five 6'-3" post spaces from the beginning of a flare or reduced post spacing.

3. The omitted post must be a minimum of ten 6'-3" post spaces from the last post of an end anchorage.

4. The omitted post must be a minimum of six 6'-3" post spaces from a threecore beam to W-Beam asymmetrical transition section.

5. The omitted post must be a minimum of seven 6'-3" post spaces from an outer cat post of an 18'-9" or 25'-0" unsupported span.

6. The required clear area free of fixed objects is 5' behind a 18'-9" unsupported span.

7. Where there is curb, the maximum curb height is 3' for a minimum length of 8' in advance of and on the trailing end of the omitted post.

CD-609-SA.3

NOTES:

1. Where guide rail is adjacent to curb, it is placed with the gutterline of offset for sliding curb and required to an offset of 2' or smaller. A vertical transition is required in a minimum length of 6' for each 3' of vertical change.


3. 2'-0" for modified three beam guide rail.

4. For E/0 Ergo curb face of rail is offset 6" from gutter line.