

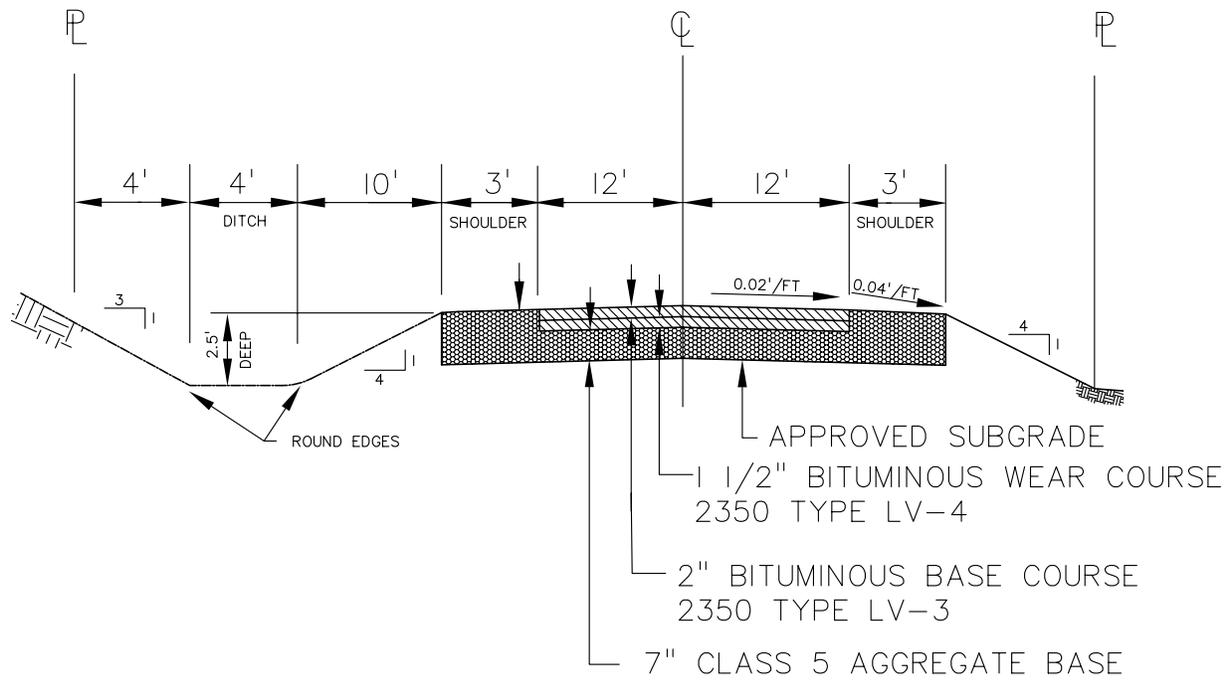
2 LIFT / 7 TON DESIGN

**BALDWIN TOWNSHIP
 STANDARD DETAILS**

**RURAL ROAD SECTION (TYP)
 (7 Ton)**

Date: 2/16/04

Plate No: BLD-100.0



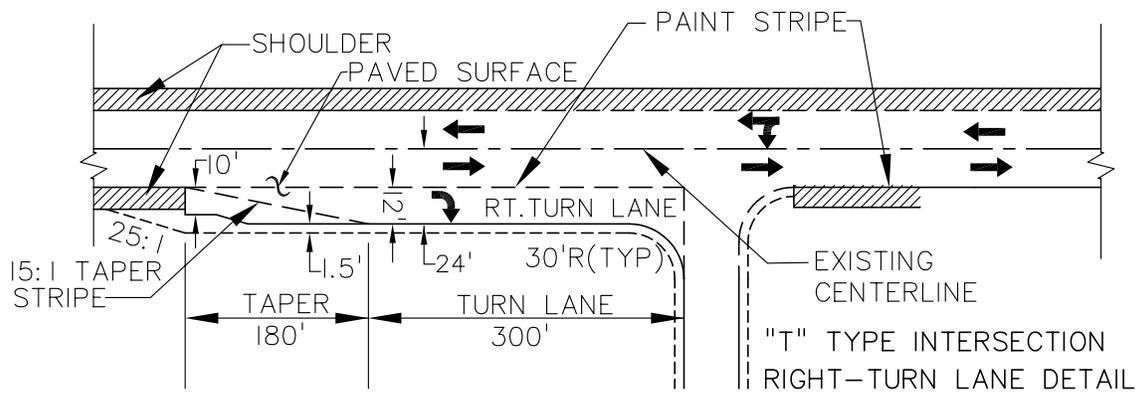
9 TON DESIGN

BALDWIN TOWNSHIP
STANDARD DETAILS

RURAL ROAD SECTION (TYP)
MINIMUM 9 TON

Date: 4/7/03

Plate No: BLD-101.0

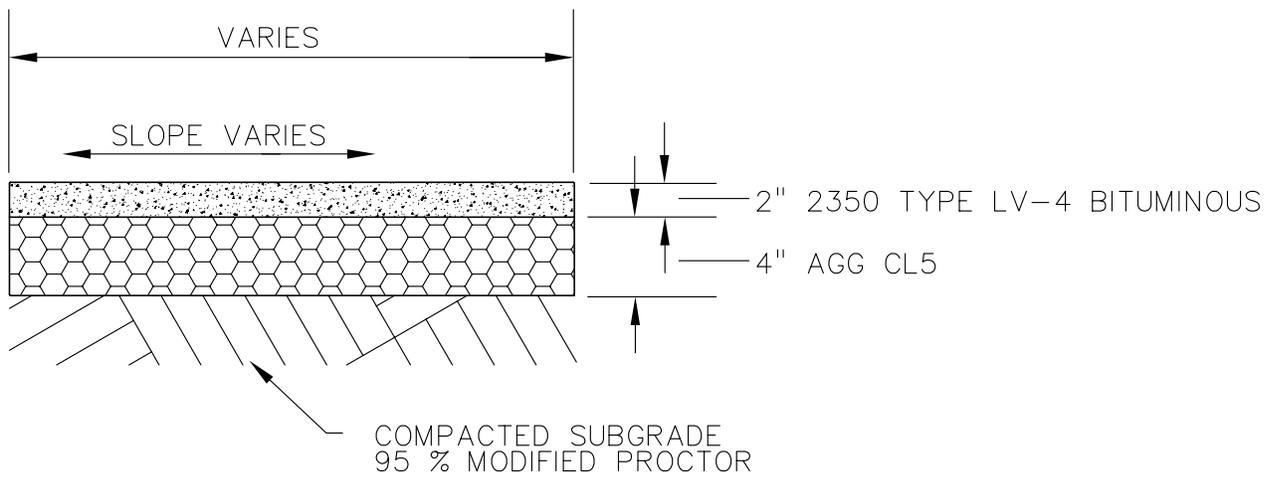


BALDWIN TOWNSHIP
STANDARD DETAILS

TYPICAL RIGHT-TURN LANE

Date: 4/7/03

Plate No: BLD-103.0



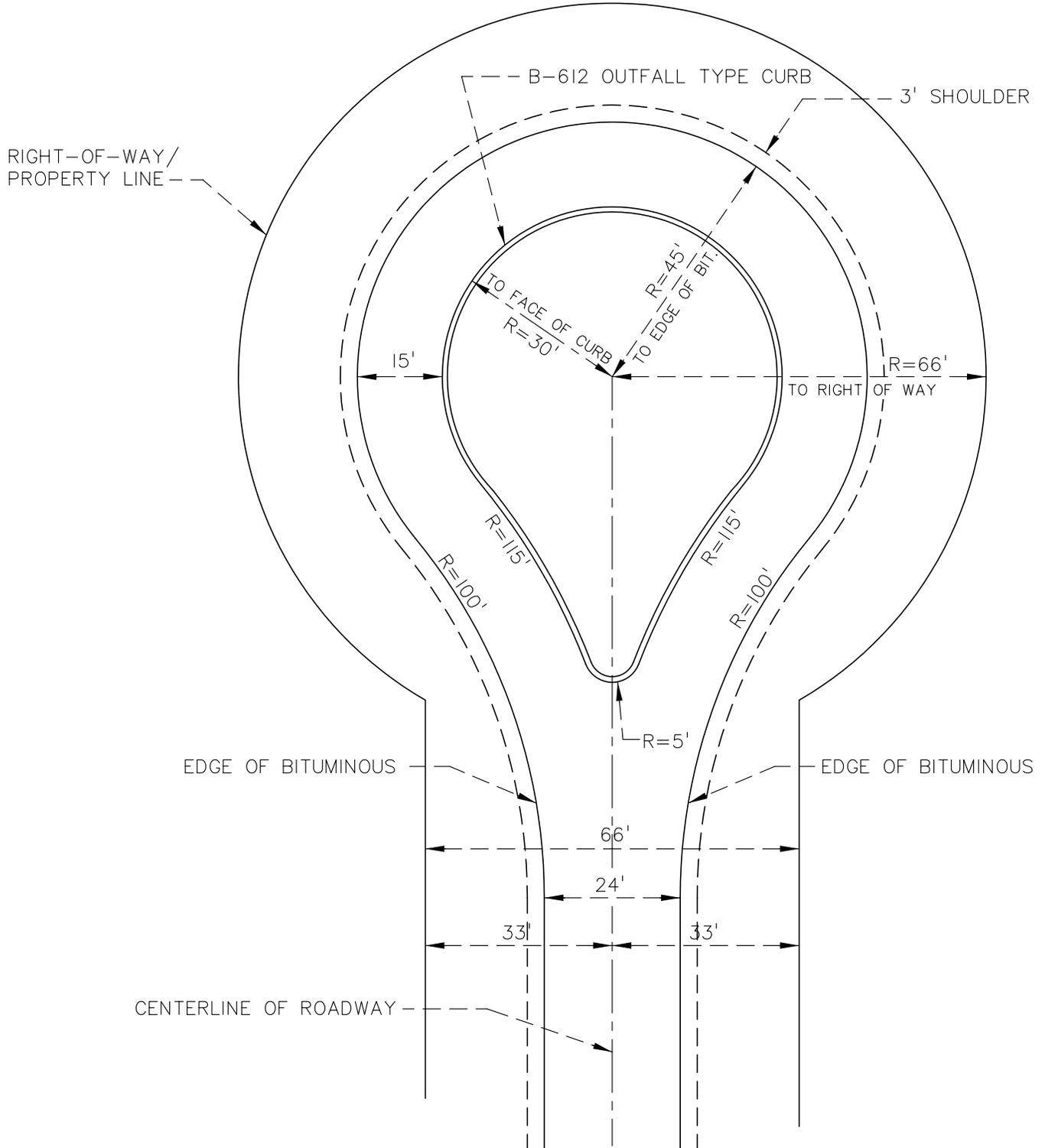
BALDWIN TOWNSHIP
STANDARD DETAILS

DETACHED BITUMINOUS
PATHWAY TYP. SECTION

Date: 4/7/03

Plate No: BLD-104.0

CONCRETE CURB ISLAND TO BE B-612 OUTFALL TYPE CURB, UNLESS DIRECTED OTHERWISE BY TOWNSHIP.

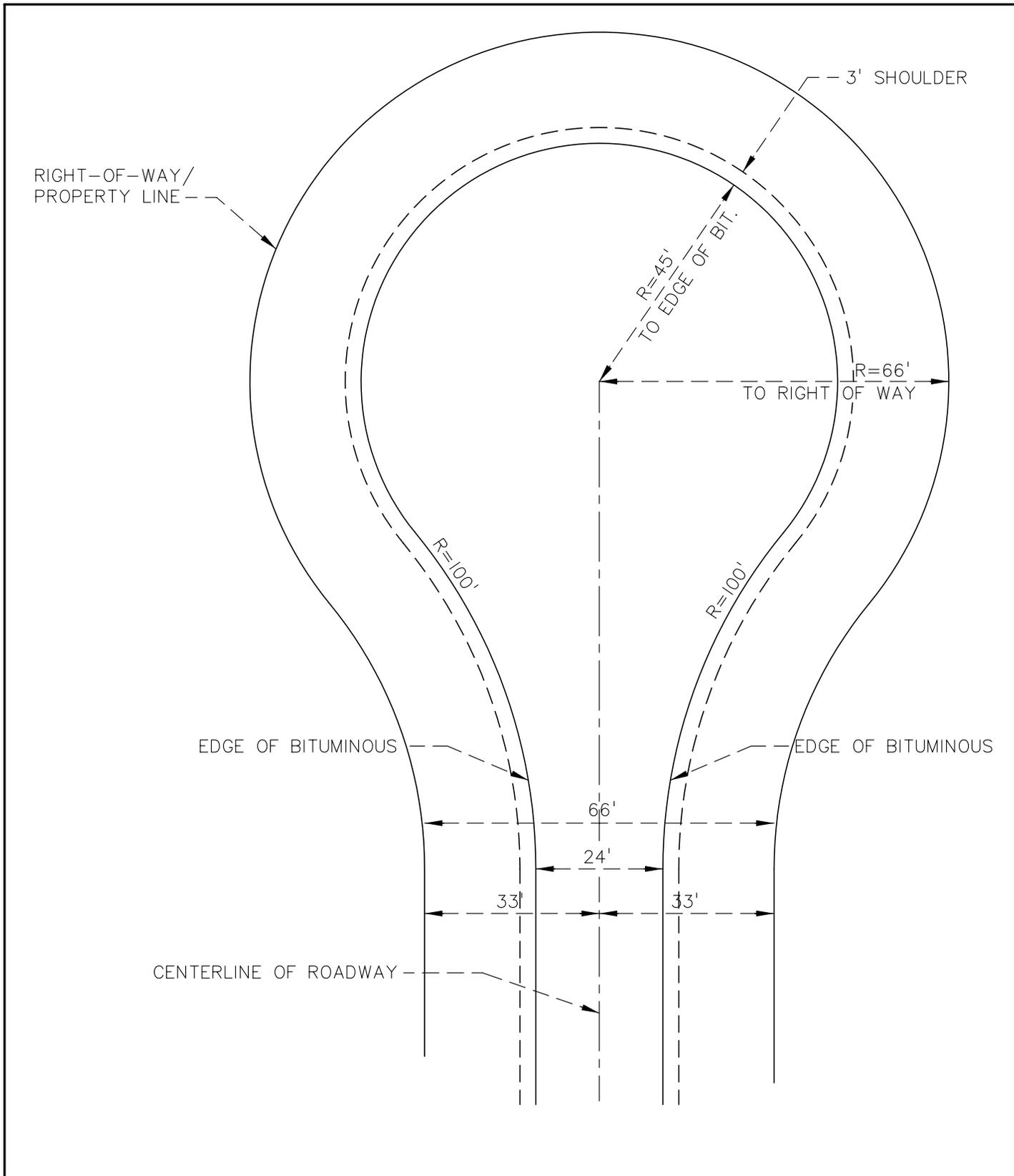


BALDWIN TOWNSHIP
STANDARD DETAILS

ISLAND TYPE CUL-DE-SAC

Date: 3/05/01

Plate No: BLD_I05.0



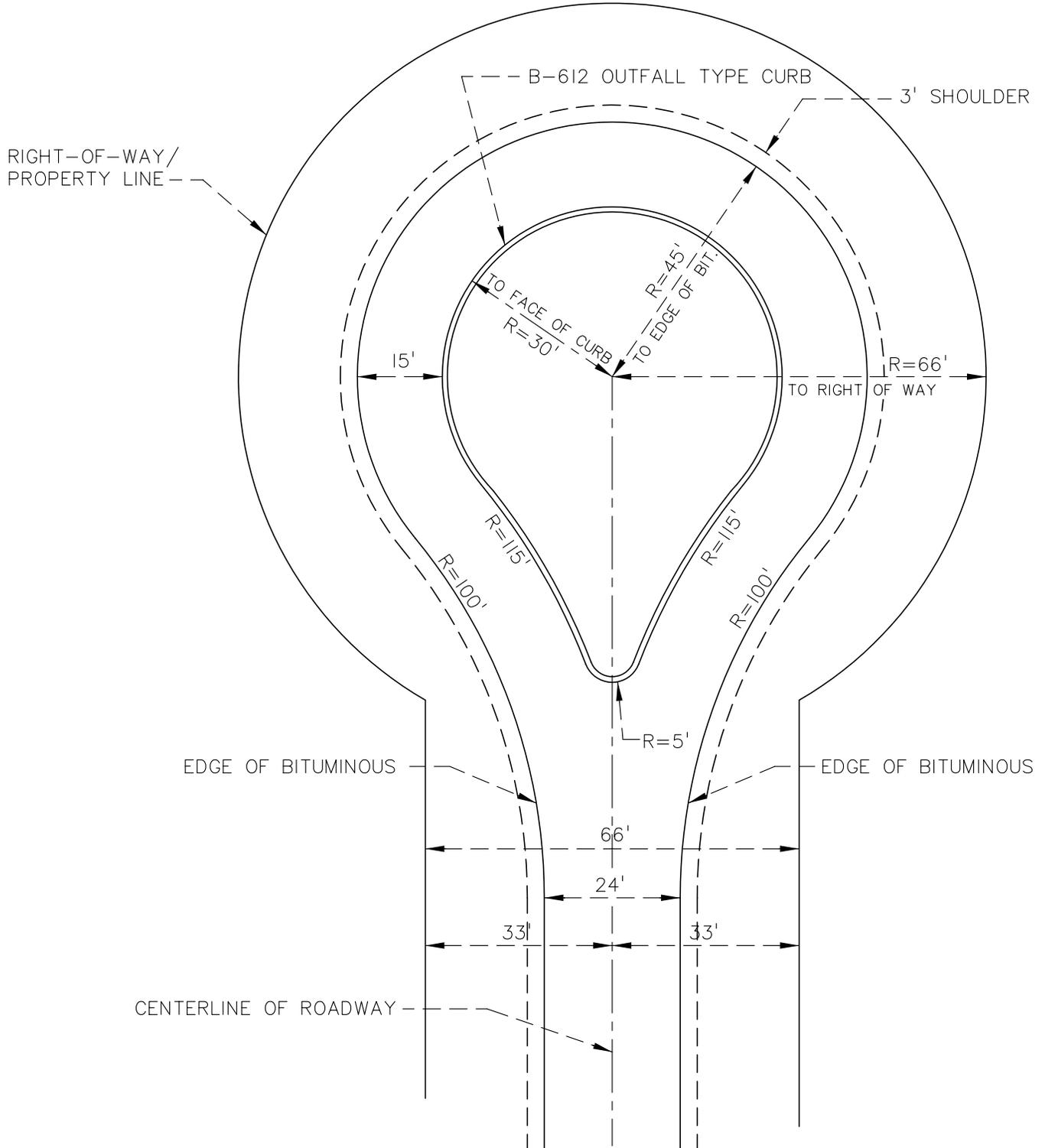
BALDWIN TOWNSHIP
STANDARD DETAILS

TYPICAL CUL-DE-SAC
(Permanent)

Date: 2/6/06

Plate No: BLD-105.0

CONCRETE CURB ISLAND TO BE B-612 OUTFALL TYPE CURB, UNLESS DIRECTED OTHERWISE BY TOWNSHIP.

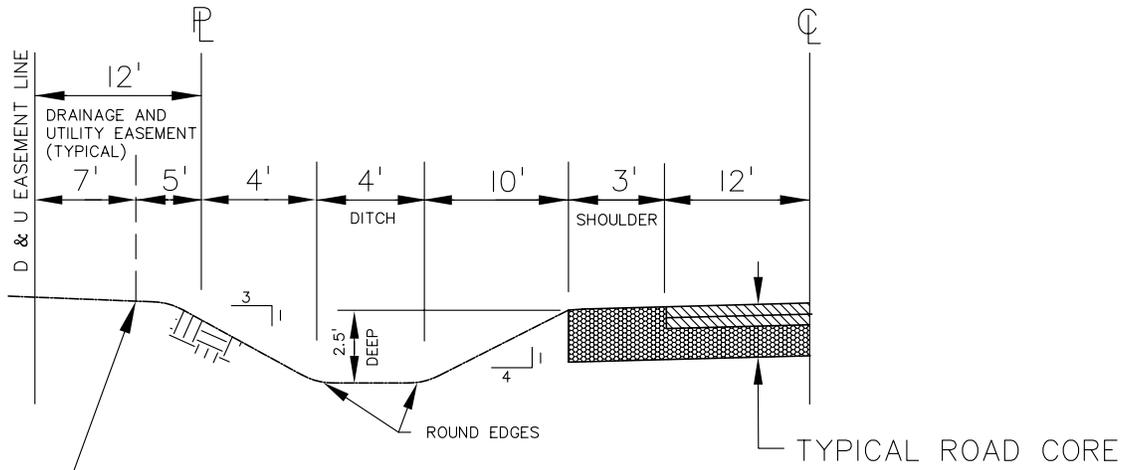


BALDWIN TOWNSHIP
STANDARD DETAILS

ISLAND TYPE CUL-DE-SAC

Date: 3/05/01

Plate No: BLD_I06.0



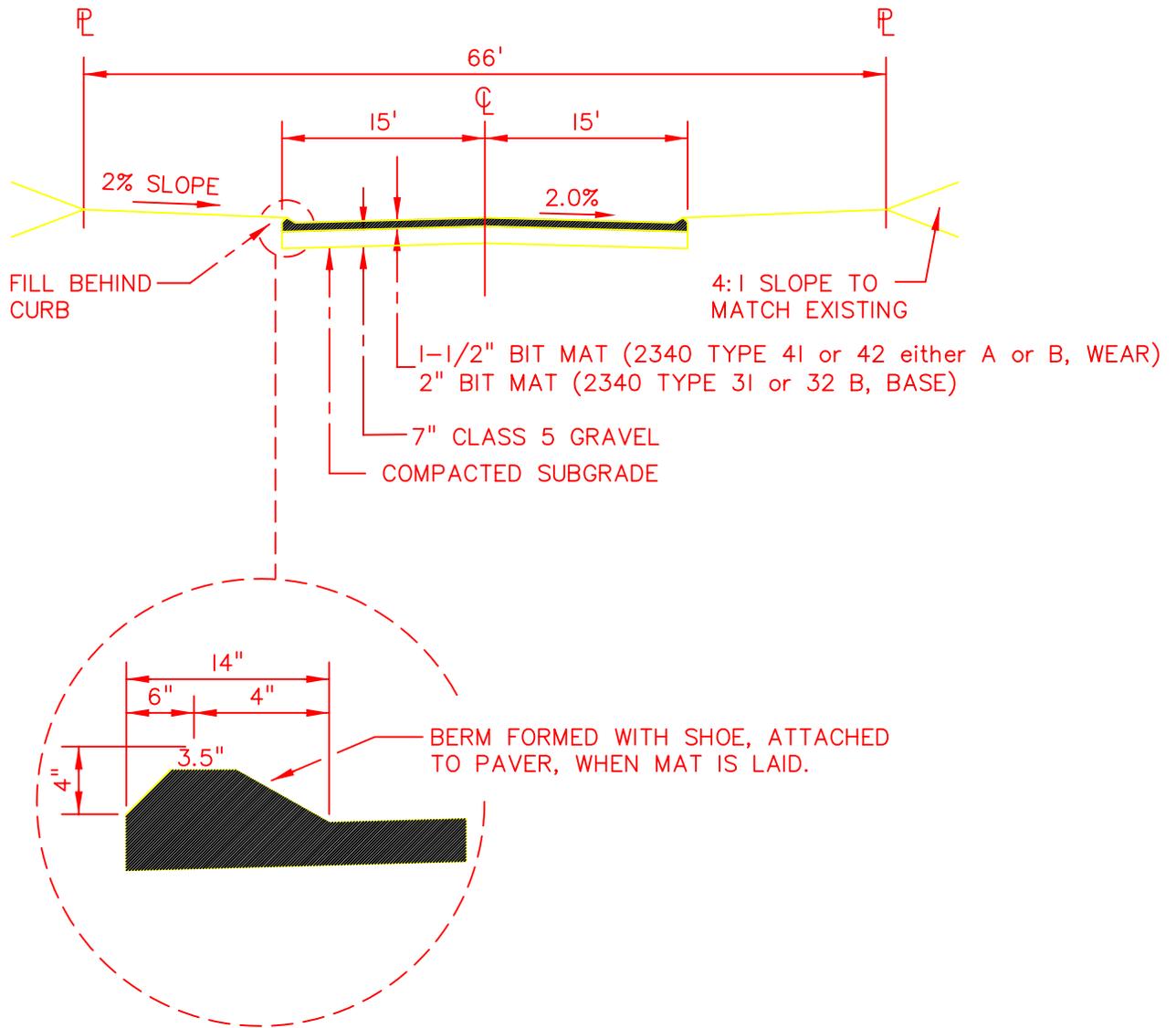
TYPICAL TELEPHONE PEDESTAL PLACEMENT
 5 FOOT FROM PROPERTY LINE, INSIDE
 DRAINAGE AND UTILITY EASEMENT

BALDWIN TOWNSHIP
 STANDARD DETAILS

TELEPHONE PEDESTAL PLACEMENT
 TYPICAL

Date: 3/1/02

Plate No: BLD-109.0



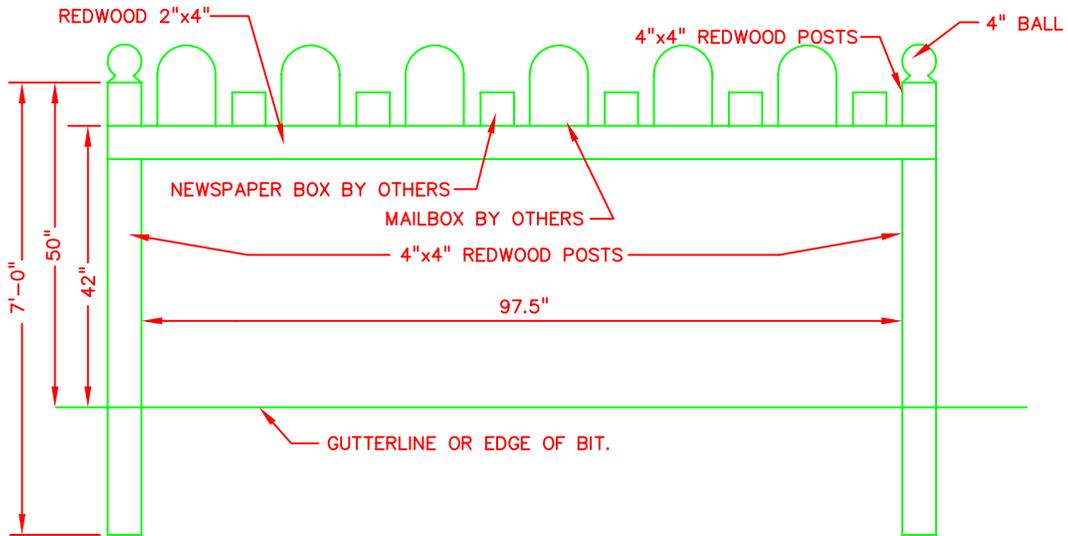
BALDWIN TOWNSHIP
STANDARD DETAILS

URBAN SECTION W/ BIT CURB

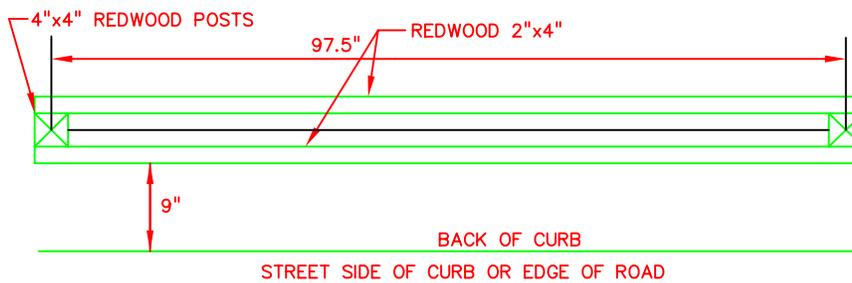
Date: 3/1/99

Plate No: BLD-III.0

ELEVATION VIEW



PLAN VIEW



EXACT LOCATION OF SUPPORT TO BE DETERMINED BY OWNER. VERIFY THAT DIMENSIONS AND LOCATIONS ARE ACCEPTABLE TO THE LOCAL POSTAL AUTHORITY.

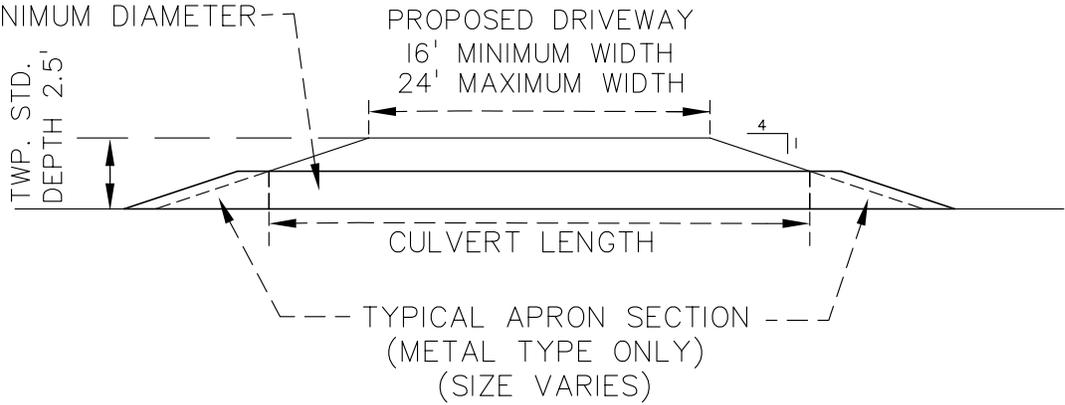
BALDWIN TOWNSHIP
STANDARD DETAILS

MAILBOX SUPPORT

Date: 2/6/06

Plate No: BLD-201.0

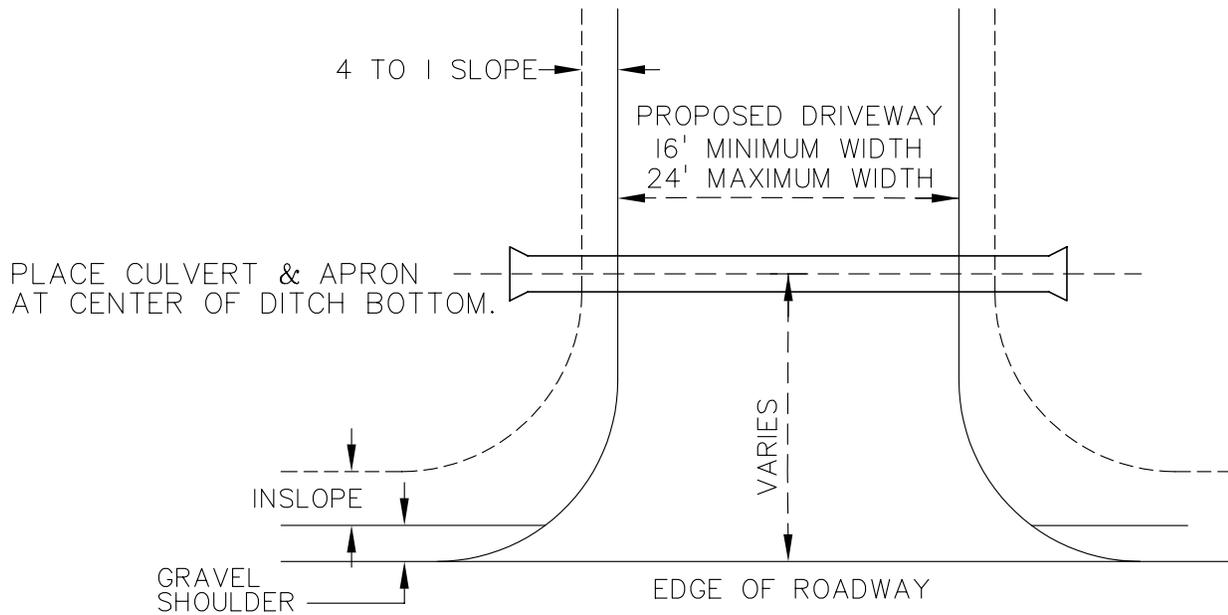
16 GA. CMP CULVERT
15" MINIMUM DIAMETER-



$$\text{CULVERT LEN. (ft.)} = \text{DRIVEWAY WID. (ft.)} + 2\left[\left(\frac{\text{DITCH DEPTH} - \text{CULVERT DIA. (in.)}}{12}\right) * 4\right]$$

EXAMPLE: 16 ft DRIVEWAY WIDTH, 29" DITCH DEPTH, 15" CULVERT

$$\text{CULVERT LEN. (ft.)} = 16' + 2\left[\left(\frac{29" - 15"}{12}\right) * 4\right] = 25 \text{ ft.}$$



NOTES:

CULVERT APRON LIP IS TO BE PLACED AT DITCH BOTTOM.
IN THE OCCURRENCE THAT DITCH IS DEEPER THAN
THE MINIMUM, THE CULVERT LENGTH SHALL
BE EXTENDED TO MAINTAIN 4 TO 1 SLOPE.

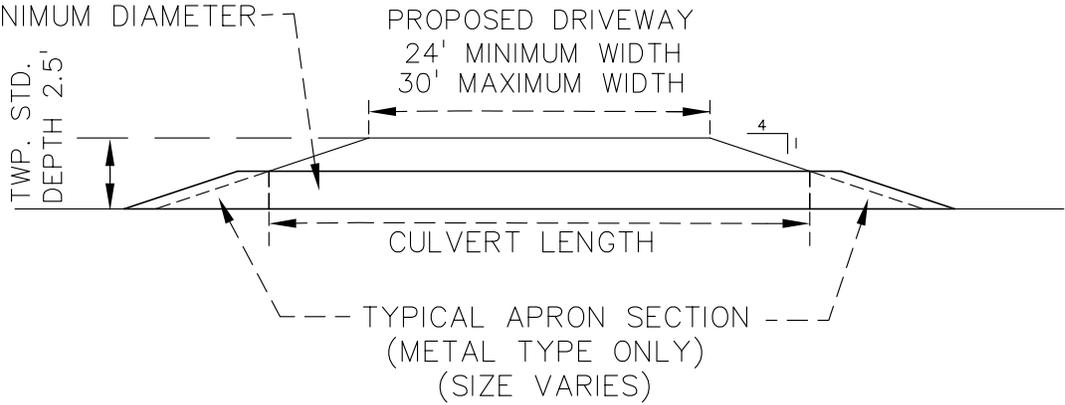
BALDWIN TOWNSHIP
STANDARD DETAILS

DRIVEWAY CULVERT DETAIL
(RESIDENTIAL)

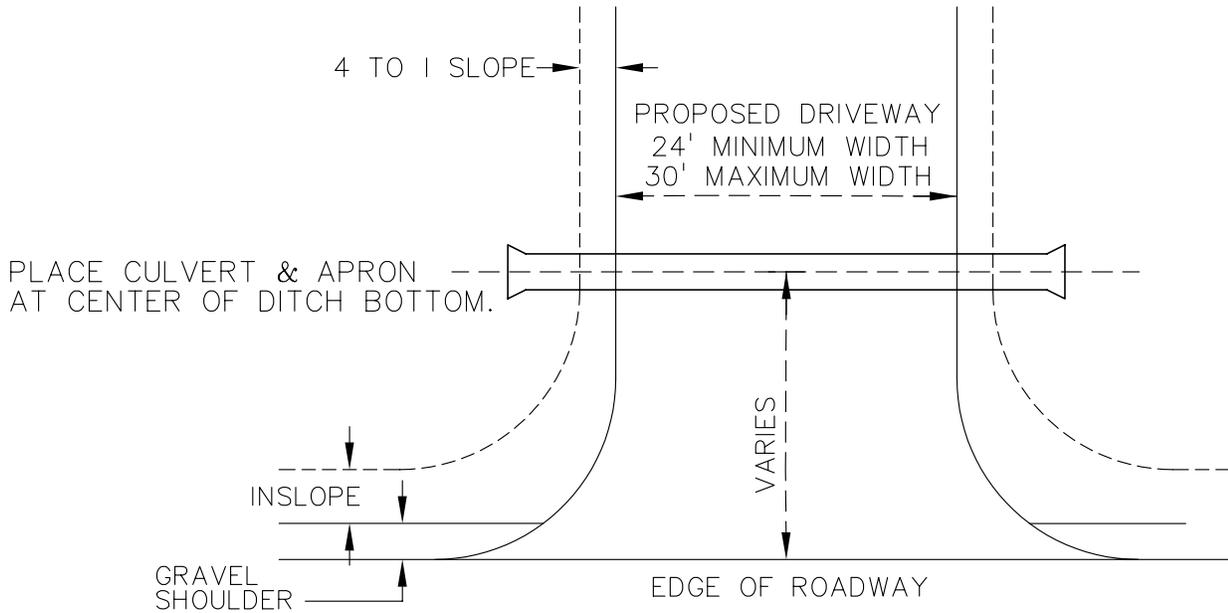
Date: 4/7/03

Plate No: BLD-202.0

16 GA. CMP CULVERT
15" MINIMUM DIAMETER-



CULVERT LEN. (ft.) = DRIVEWAY WID. (ft.) + 2[(((DITCH DEPTH-CULVERT DIA. in.)/12) * 4)]
 EXAMPLE: 16 ft DRIVEWAY WIDTH, 29" DITCH DEPTH, 15" CULVERT
 CULVERT LEN. (ft.) = 24' + 2[(((29"- 15")/12) * 4)] = 33 ft.



NOTES:
CULVERT APRON LIP IS TO BE PLACED AT DITCH BOTTOM.
IN THE OCCURRENCE THAT DITCH IS DEEPER THAN
THE MINIMUM, THE CULVERT LENGTH SHALL
BE EXTENDED TO MAINTAIN 4 TO 1 SLOPE.

BALDWIN TOWNSHIP
STANDARD DETAILS

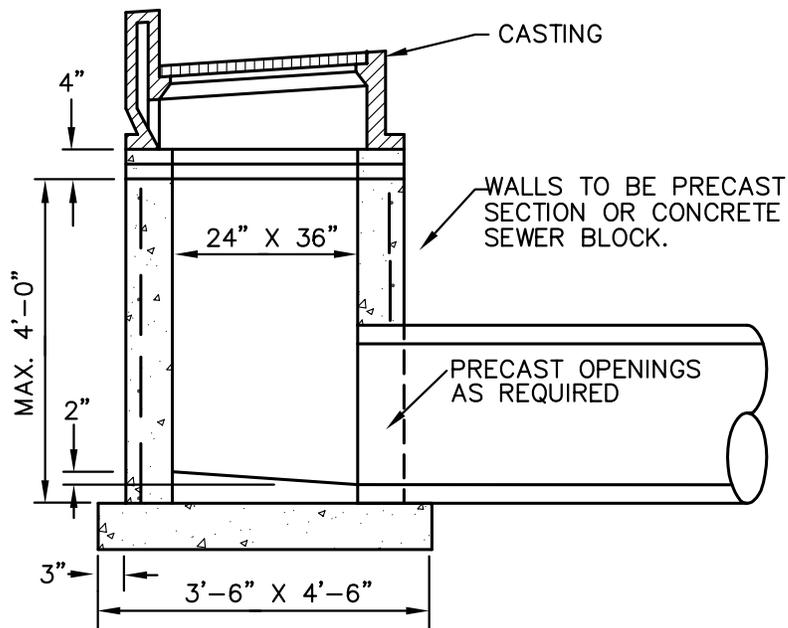
DRIVEWAY CULVERT DETAIL
(COMMERCIAL)

Date: 4/7/03

Plate No: 203.0

NOTE:

- 1 CONCRETE ADJUSTING RINGS, MIN. 4" MAX 10"
NO MINIMUM WITH FINAL ADJUSTMENT.
- 2 CONCRETE BASE SHALL 6" POURED IN PLACE
OR 5" PRECAST SLAB.



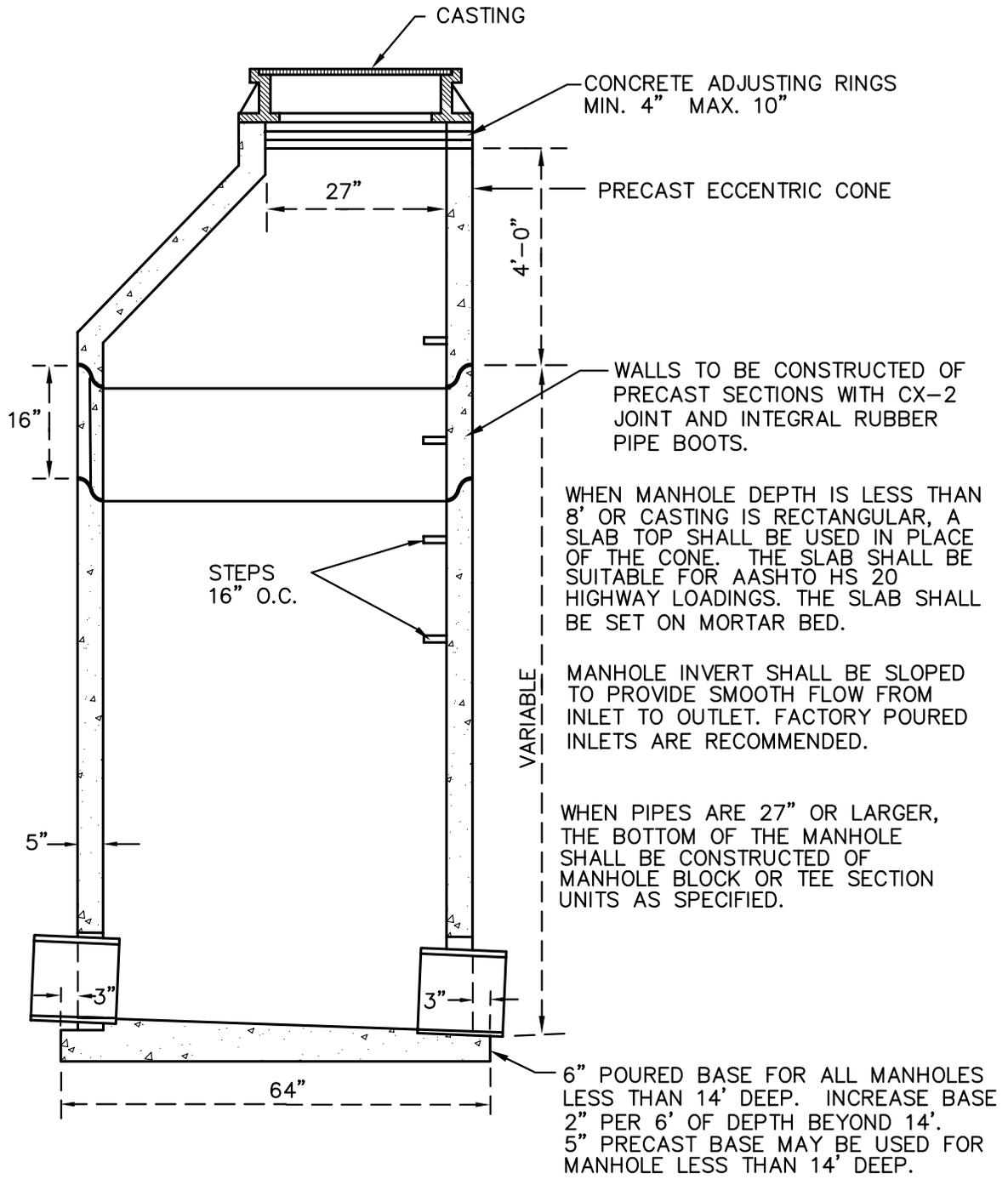
CATCHBASIN - RECTANGULAR - 24" X 36"

**BALDWIN TOWNSHIP
STANDARD DETAILS**

CATCHBASIN -
RECTANGULAR - 24" X 36"

Date: 2/6/06

Plate No: 300.0



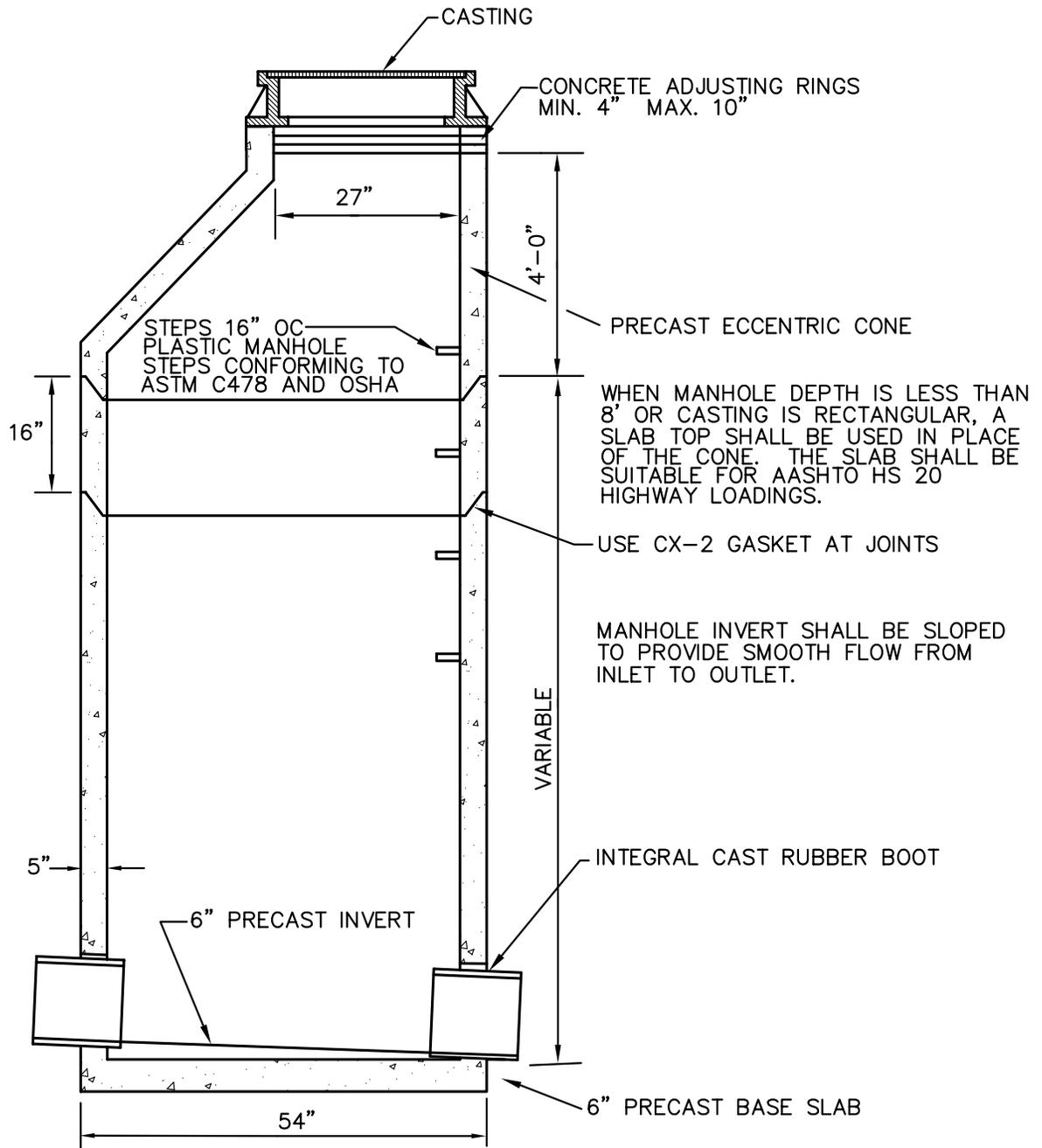
STANDARD MANHOLE - STORM SEWER

BALDWIN TOWNSHIP
STANDARD DETAILS

STANDARD MANHOLE - STORM SEWER

Date: 2/6/06

Plate No: BLD-302.0



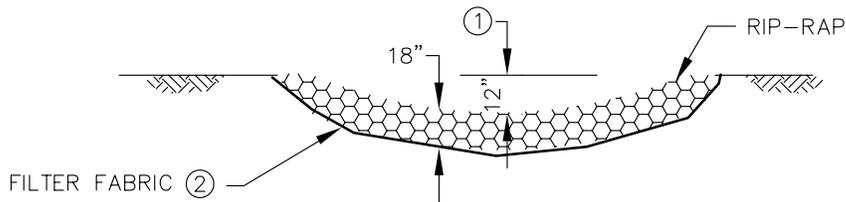
STANDARD MANHOLE (SAN SEWER)

**BALDWIN TOWNSHIP
STANDARD DETAILS**

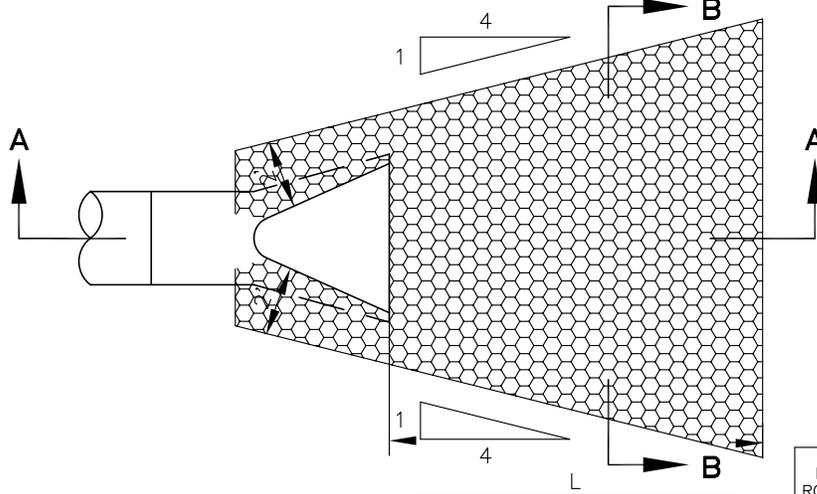
STANDARD MANHOLE (SAN SEWER)

Date: 2/6/06

Plate No: BLD-303.0

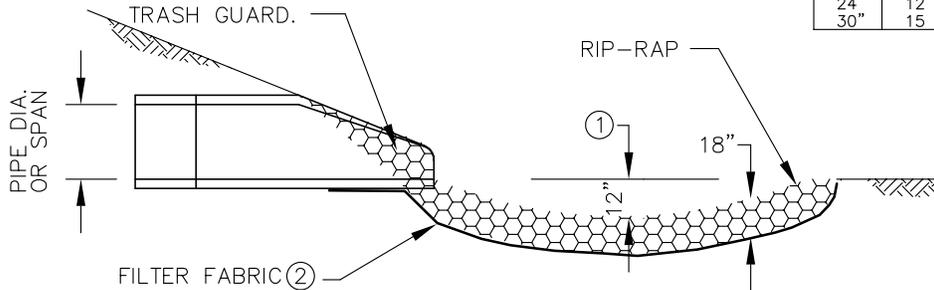


SECTION B-B



PLAN

NOTE:
RIP-RAP SHALL BE INSTALLED
TO PROVIDE EASY REMOVAL OF
TRASH GUARD.



SECTION A-A

TABLE OF QUANTITIES

DIA. ROUND	L	CLASS 3 d50 = 9" RIP RAP	FILTER FABRIC
(IN.)	FT.	18" DEPTH CU. YD.	SQ. YD.
12"	8	6.9	8
15"	8	7.1	9
18"	10	8.9	12
21"	10	10.4	13
24"	12	11.9	17
30"	15	14.0	21

NOTE:
PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.

- ① FOR PIPES GREATER THAN OR EQUAL TO 30". USE 1.5'
- ② GEOTEXTILE FABRIC, MnDOT SPEC. 3733, SHALL COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE CULVERT APRON 3 FT.

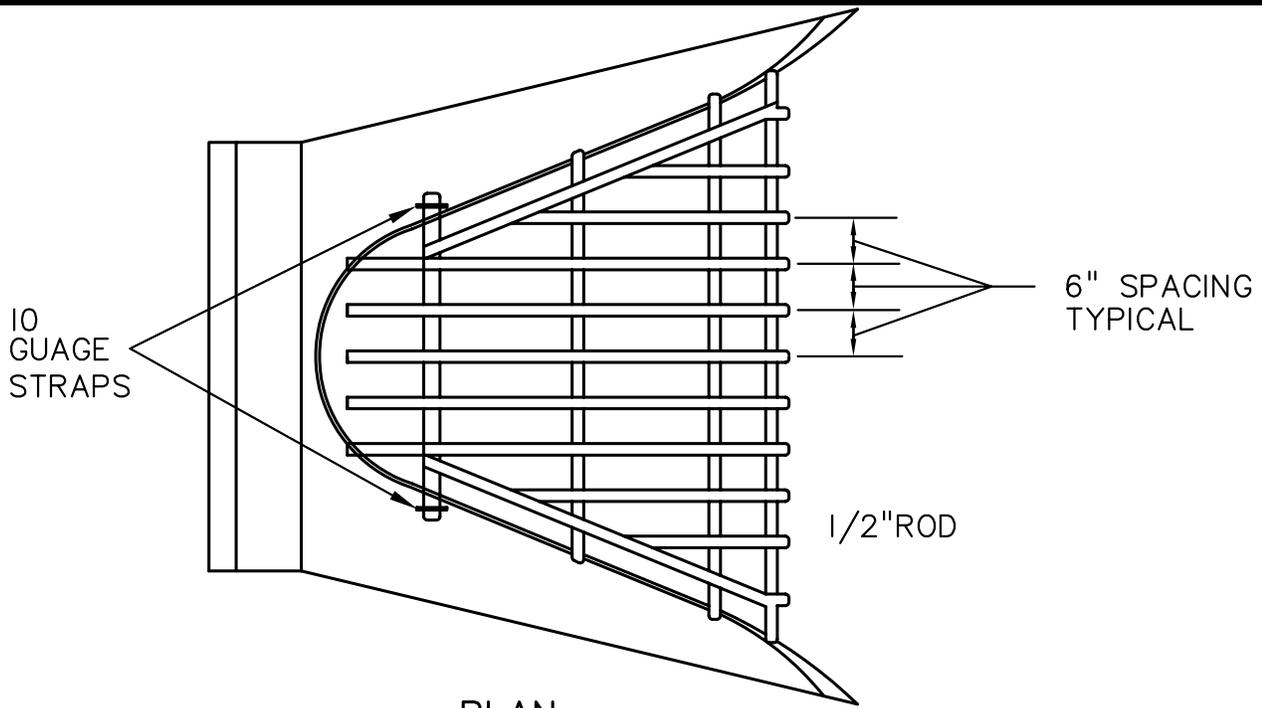
RIP-RAP INSTALLATION

BALDWIN TOWNSHIP
STANDARD DETAILS

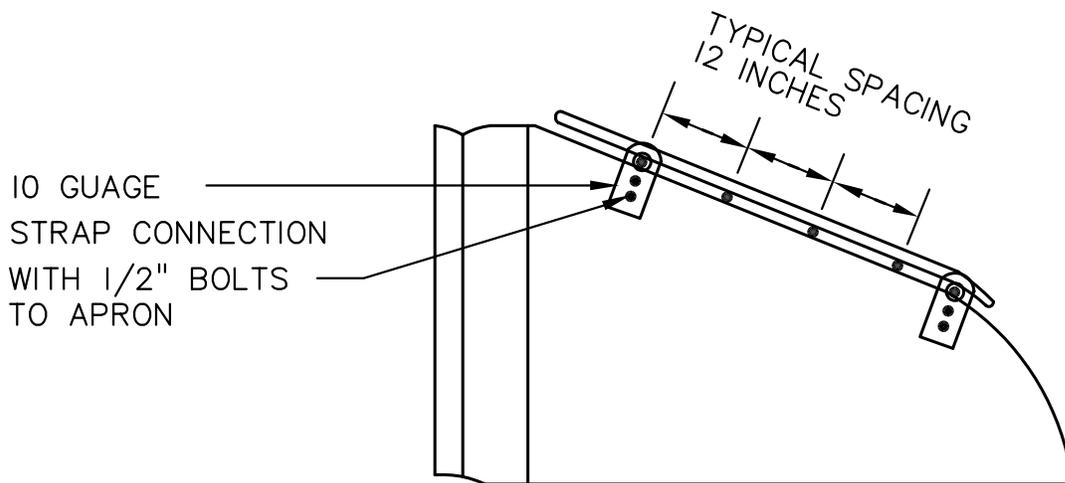
RIP-RAP INSTALLATION

Date: 2/6/06

Plate No: BLD-304.0



PLAN



ELEVATION

NOTES:

1. TRASH GAURD TO BE GALVANIZED AFTER FABRICATION.
2. THE SIZE OF EACH TRASH GAURD WILL VARY TO FIT APRON.

TRASH GUARD FOR CORUGATED METAL PIPE

**BALDWIN TOWNSHIP
STANDARD DETAILS**

TRASH GUARD FOR
CORUGATED METAL PIPE

Date: 2/6/06

Plate No: BLD-305.0