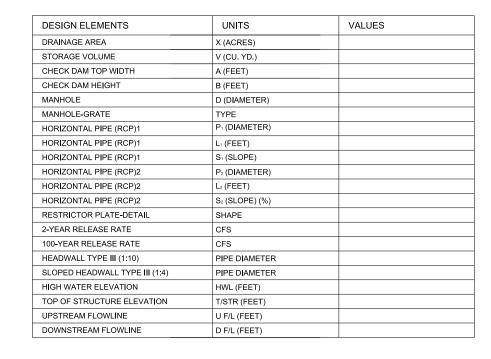
Illinois Tollway Base Sheet Revisions

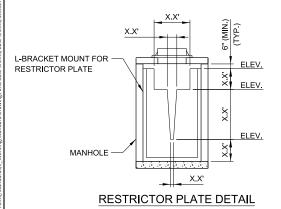
Section M	Base Sheet	Drawings									
	Drawing	Modification Summary	Effective: 03-01-2023								
		Drainage (DRN)-	Series 600								
	M-DRN-603 ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM										
		Added Note to Designer Number 5.									
	M-DRN-606 SECTION THROUGH MOMENT SLAB WITH DRAINAGE STRUCT										
		Added a call-out on the plan indicating and the expansion joint or end of slab	g a 5' minimum distance between the grate								
	M-DRN-607	NOISE ABATEMENT WALL DRAINA	AGE DETAILS (ROADWAY SIDE)								
		Added typical section for balanced so	il load when embedment depth is > 1 foot.								
	M-DRN-608	NOISE ABATEMENT WALL DRAINA	AGE DETAILS (RESIDENTIAL SIDE)								
		Revised typical sections to show Agging panel and the drainage structure.	regate Shoulder, Type B between the NAW								

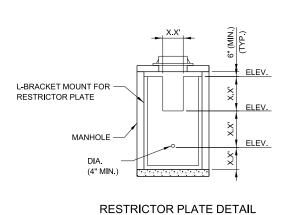
New Sheet

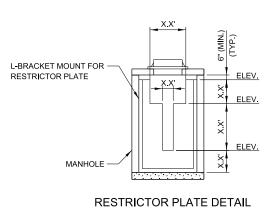
Retired Standard











ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT. (V:H).

THE CONTRACTOR HAS THE OPTION TO USE A CONCRETE RESTRICTOR PLATE THAT IS PRECAST WITHIN THE DRAINAGE STRUCTURE.

SAMPLE RESTRICTOR PLATE DETAILS

OUTLET CONTROL STRUCTURE (CHECK DAM)





2021-03 M-DRN-600

ELEV. L-BRACKET MOUNT FOR RESTRICTOR PLATE MANHOLE ELEV. (4" MIN.) RESTRICTOR PLATE DETAIL NOTES:

1 OF 1

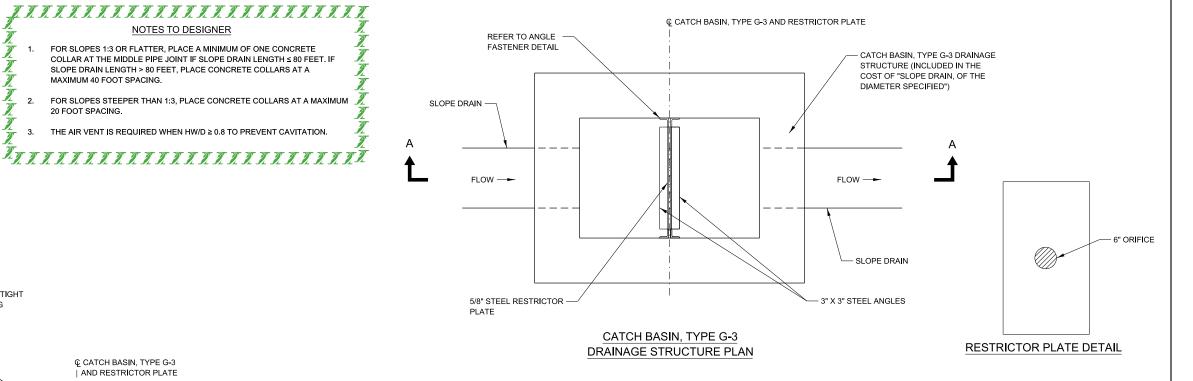
THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS TO NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

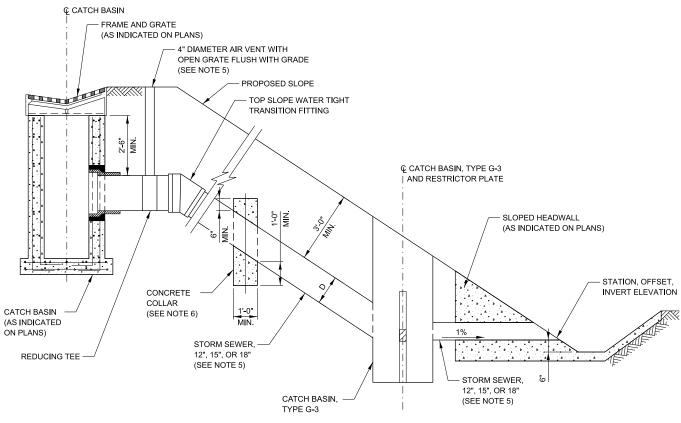
DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN
OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A

CONTRACT ALL "NOTE TO DESIGNER" BOXES SHALL BE CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. TITITUTE PLANSE.

NOTES TO DESIGNER

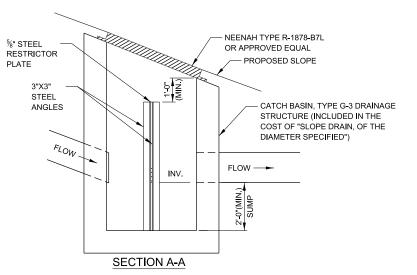
- FOR SLOPES 1:3 OR FLATTER, PLACE A MINIMUM OF ONE CONCRETE COLLAR AT THE MIDDLE PIPE JOINT IF SLOPE DRAIN LENGTH ≤ 80 FEET. IF SLOPE DRAIN LENGTH > 80 FEET, PLACE CONCRETE COLLARS AT A MAXIMUM 40 FOOT SPACING.
- FOR SLOPES STEEPER THAN 1:3, PLACE CONCRETE COLLARS AT A MAXIMUM 20 FOOT SPACING
- THE AIR VENT IS REQUIRED WHEN HW/D ≥ 0.8 TO PREVENT CAVITATION.





SLOPE DRAIN

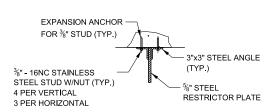
SLOPE	SLOPE DRAIN D (IN) PIPE NO.	LENGTH	CON	CRETE COL	LAR	С	ATCH BASIN	INV.	TOP OF RESTRICTOR	
		(FT)	STATION	OFFSET (FT)	OFFSET (LT/RT)	STATION	OFFSET (FT)	OFFSET (LT/RT)	IIV.	PLATE ELEVATION



RESTRICTOR PLATE 2 EQUAL 6" SPACES STUD BOLT LOCATIONS TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF CATCH BASIN TOTAL STUD BOLTS REQUIRED: 22 - STUD BOLT LOCATIONS TYPICAL VERTICAL ANGLES LOOKING TOWARD CATCH BASIN WALL STEEL ANGLE BOLTING DETAILS

NOTES:

- 1. THE STORM SEWERS, CONCRETE COLLAR, CATCH BASIN, TYPE G-3, RESTRICTOR PLATE, ANGLES AND HARDWARE AND FRAME AND GRATE, SHALL BE INCLUDED IN THE COST OF SLOPE DRAIN OF THE DIAMETER SPECIFIED.
- SEE ILLINOIS TOLLWAY STANDARD B8 FOR DIMENSION OF CATCH BASIN, TYPE G-3 STRUCTURE.
- THE TOP OF THE CATCH BASIN, TYPE G-3 SHALL BE CUT IN THE FIELD TO MATCH THE PROPOSED EMBANKMENT SLOPE.
- THE CONTRACTOR HAS THE OPTION TO USE A CONCRETE RESTRICTOR PLATE THAT IS PRECAST WITHIN THE DRAINAGE STRUCTURE.
- PIPE MATERIAL SHALL BE HDPE WITH SMOOTH INTERIOR OR EPOXY COATED CORRUGATED GALVANIZED STEEL PIPE OF THE SIZE SPECIFIED.
- THE MINIMUM CONCRETE COLLAR WIDTH SHALL BE D + 24".
- ALL STEEL ANGLES AND PLATES SHALL BE GALVANIZED AFTER
- STEEL PLATE AND ANGLES SHALL BE IN ACCORDANCE WITH AASHTO M 270 GRADE 36.
- ANGLES SHALL BE 3" X 3" X 3/8".
- VERTICAL ANGLES SHALL EXTEND FROM THE BOTTOM OF THE CATCH BASIN TO THE TOP OF THE RESTRICTOR PLATE.
- 11. HORIZONTAL ANGLES SHALL EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

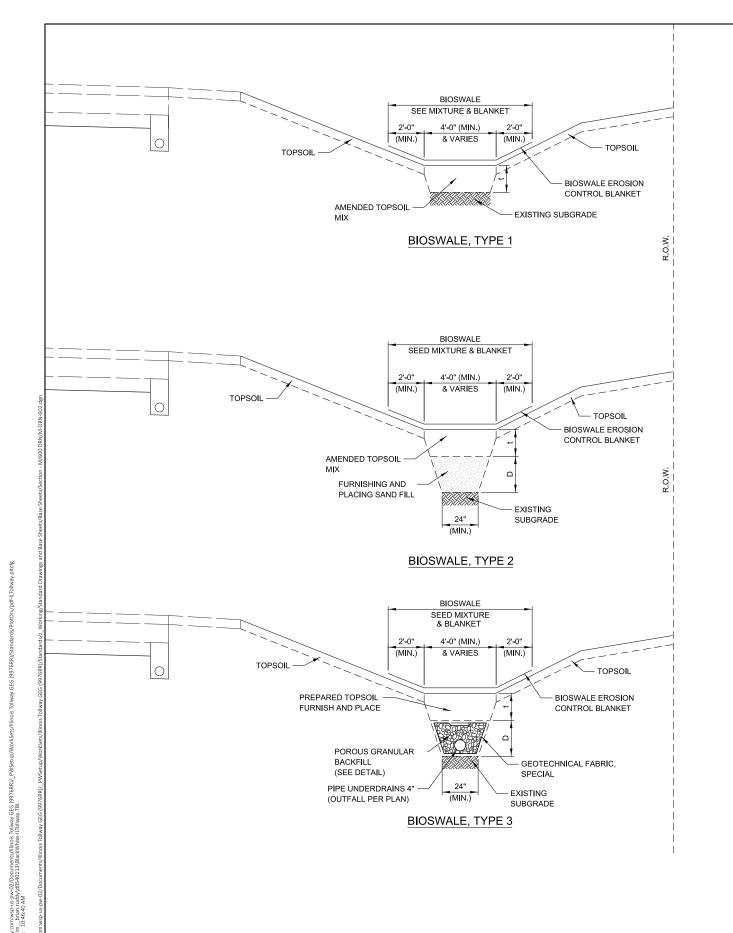


ANGLE FASTENER DETAIL



SLOPE DRAIN

M-DRN-601 1 OF 1 2021-03



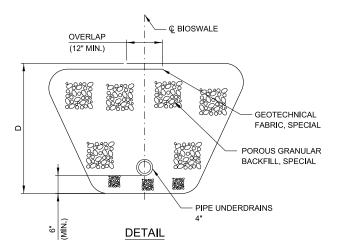
BIOSWALE NO.	BIOSWALE TYPE	BEGIN STATION	END STATION	PREP/AMENDED TOPSOIL THICKNESS (t)	BIOSWALE BASE (D)

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD TO RAWING. IT REQUIRES COMPLETION BY THE _DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" -ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

ALL UNDER DRAINS SHALL EITHER OUTLET AT GRADE OR

TO A DRAINAGE STRUCTURE AND GRAVITY DRAIN. ALL UNDER DRAINS SHALL HAVE AN INLET ON THE

UPSTREAM END AND EVERY 500' MINIMUM TO SERVE AS A CLEAN OUT. TITITITITITITITITITITITI



NOTES:

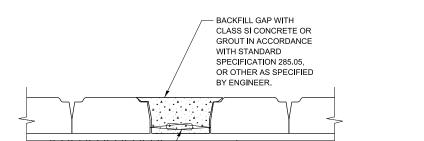
1. THE ENDS OF THE PIPE UNDERDRAIN OUTLET AT GRADE SHALL BE PROTECTED BY A PERMANENT RODENT SHIELD IN ACCORDANCE WITH STANDARD B24.



BIOSWALE

M-DRN-602

1 OF 1



NONWOVEN FILTER FABRIC

SPECIFICATION 1080.03

IN ACCORDANCE WITH STANDARD

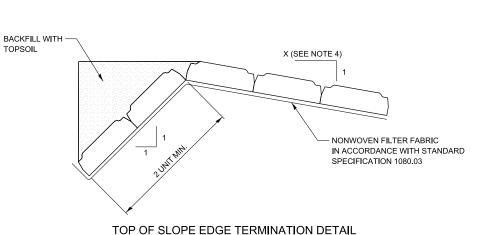
TYPICAL MAT TO MAT NOT TO SCALE

NOTES:

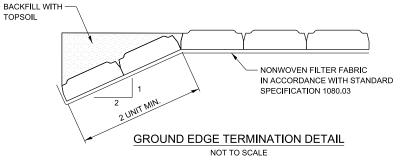
- 1. EACH BLOCK SHALL INCORPORATE INTERLOCKING SURFACES THAT MINIMIZE LATERAL DISPLACEMENT OF THE BLOCKS WITHIN THE MATS WHEN THEY ARE LIFTED BY THE LONGITUDINAL REVETMENT CABLES. HAND PLACED INTERLOCKING BLOCKS ARE ALSO ACCEPTABLE.
- THE TOP OF BLOCK ELEVATION SHALL BE AT OR BELOW THE DITCH FLOW LINE, OR FINISHED SURFACE.
- PAY LENGTH IS EQUAL TO DIMENSION "La" PLUS THE TOTAL ESTIMATED LENGTH OF THE BURIED PORTION OF THE BLOCKS. PAY WIDTH IS EQUAL TO DIMENSION "A" PLUS THE TOTAL ESTIMATED WIDTH OF THE BURIED PORTION OF THE BLOCKS.
- THE MAXIMUM BANK SLOPE FOR AN ACBRS SHALL BE 1:2 (V.H).

REVETMENT

CABLE

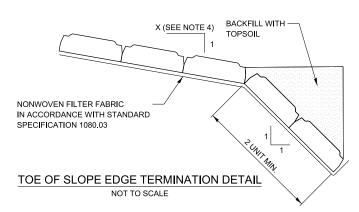


NOT TO SCALE



ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (ACBRS) SCHEDULE

STRUCTURE NO.	D (IN)	La (FT)	A (FT)	PAY LENGTH (FT) (SEE NOTE 3)	PAY WIDTH (FT) (SEE NOTE 3)	BLOCK TYPE	MAT CONFIGURATION	ACBRS (SQ YD)



NOTES TO DESIGNER

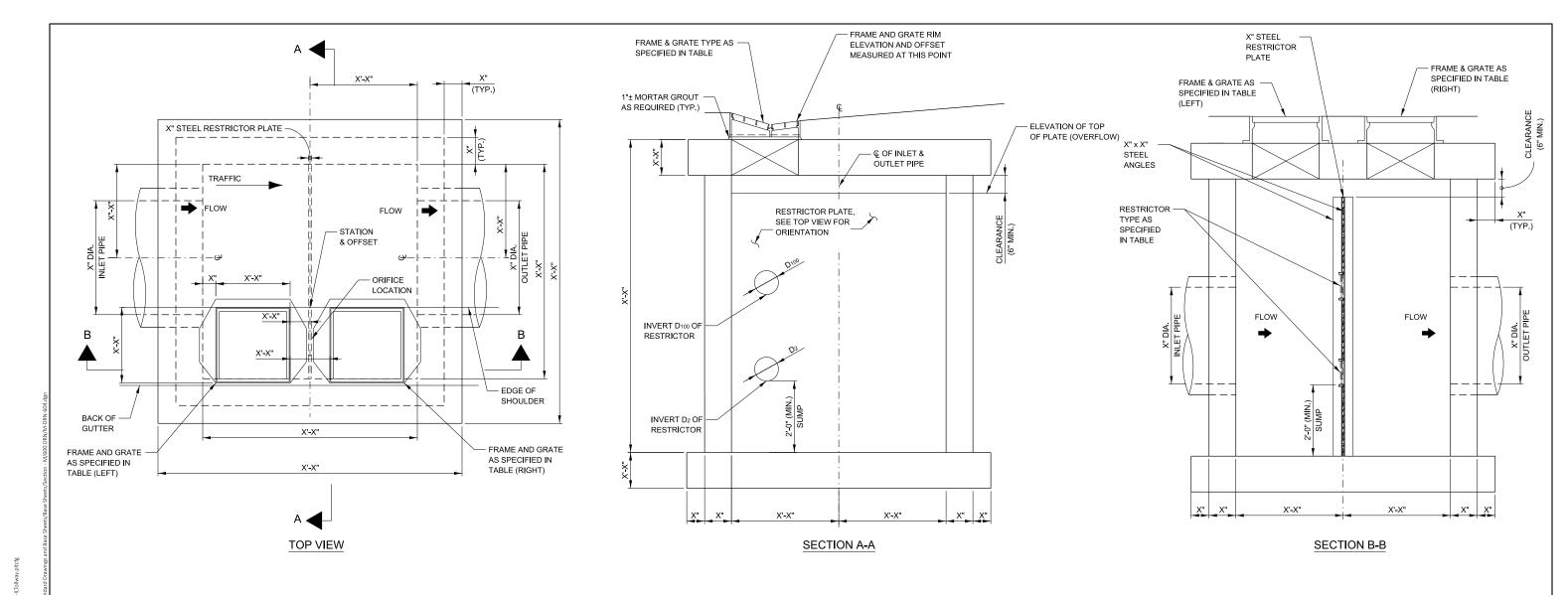
- THE AREA OF MEASURE WILL INCLUDE THE COMPLETE INSTALLED MATS, INCLUDING BOTH VISIBLE AREA AND THE BURIED EDGE PORTIONS OF THE INSTALLATION WHICH ARE NOT VISIBLE UPON PROJECT COMPLETION
- THE STANDARD MAT DIMENSIONS ARE 8 FT BY 12 FT AND 8 FT BY 20 FT. THE DESIGNER SHOULD SPECIFY THE AREAS OF MEASURE IN THOSE INCREMENTS, TO THE EXTENT POSSIBLE. LOOSE BLOCKS ARE ALSO AVAILABLE WHERE THOSE INCREMENTS ARE NOT FEASIBLE.
- THE NONWOVEN FILTER FABRIC SHALL BE INCLUDED IN THE COST OF THE ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM OF THE TYPE
- THE NONWOVEN FILTER FABRIC SHALL NOT BE INCLUDED IF A DEEP-ROOTED PLANT IS USED IN CONJUNCTION WITH THE ACBRS.
- TOPSOIL USED TO BACKFILL THE REVETMENT SYSTEM SHALL BE INCLUDED IN THE COST OF THE ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM OF THE TYPE SPECIFIED. SEEDING AND EROSION CONTROL BLANKET TYPE SHALL BE SHOWN ON THE LANDSCAPE PLANS AND WILL BE PAID FOR SEPARATELY.

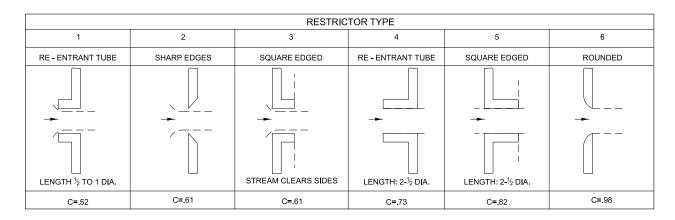
THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS WINOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE Z DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN ONTEACH ALL MORE TO COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE TREMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

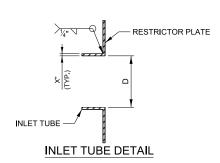


ARTICULATED CONCRETE **BLOCK REVETMENT SYSTEM**

M-DRN-603







THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGN TO DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN TO AND INSERTION INTO A ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

RESTRICTOR TYPES

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STRUCTURE NUMBER *STATION		TATION *OFFSET OFFSET LT/RT			FRAME AND GRATE			INV D100	D ₁₀₀ (IN)	INV D2	D ₂	INLET PIPE DIAMETER	OUTLET PIPE DIAMETER	TOP OF RESTRICTOR	RESTRICTOR	CLEARANCE
) LI/RI TYPE	TYPE		LT	RT		(114)		(114)	(IN)	(IN)	PLATE ELEV	TYPE	(FT)

*SEE TOP VIEW FOR STRUCTURE STATION AND OFFSET

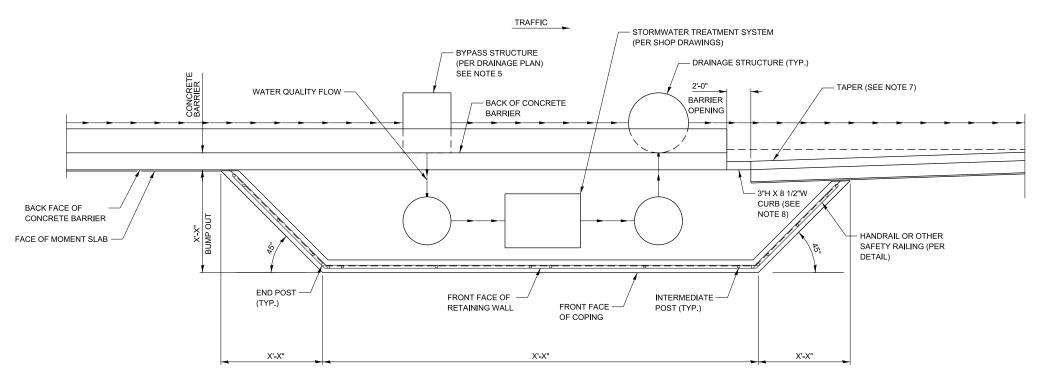




CATCH BASIN TYPE G (SPECIAL) WITH RESTRICTOR

1 OF 1

2021-03 M-DRN-604



PLAN - RETAINING WALL EXAMPLE

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

W NOT A STANDARD DRAWING IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" -ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE FREMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE

SHEET INTO THE PLAN SET.

NOTES TO DESIGNER

- THIS BASE SHEET REPRESENTS THE TYPICAL DETAILS FOR BUMP-OUT RETAINING WALLS OR MOUNTED, NOISE ABATEMENT WALLS. THE DSE IS RESPONSIBLE FOR COMPLETING THE TABLES AND INCLUDING THEM IN THEIR CONTRACT PLANS IF ANY OF THE DESIGN PARAMETERS IN THE ILLINOIS TOLLWAY STANDARD ARE EXCEEDED. THE DSE WILL BE RESPONSIBLE FOR DESIGN CALCULATIONS AND DETAILS FOR THOSE COMPONENTS THE GP&E SHEET AND REMAINING NAW PLANS SHALL BE IN ACCORDANCE WITH ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ARTICLES 6.2.5 AND 23.3.
- USE SPECIALTY PANEL AND POST SPACING AT END OF WALL TO ACCOMMODATE TYPICAL 11'-8" POST SPACING ALONG THE STRAIGHT LENGTH OF WALL. POST SPACING SHOULD NOT EXCEED LIMITS WITHIN THE ILLINOIS TOLLWAY STANDARD. IF LIMITS ARE EXCEEDED, DSE TO DESIGN AND DETAIL ALL COMPONENTS. THE "SPX" DESIGNATION FOR SPECIALTY PANELS SHOULD BE USED FOR ALL PANELS WITHIN BAY WITH THE SAME WIDTH.
- BUMP-OUT MOUNTED NAW DETAILS MAY BE USED WITH SYSTEMWIDE STRUCTURE MOUNTED NAW DETAILS SHOWN IN STANDARD G12 AND M-BRG-529 DSF TO UPDATE ACCORDINGLY FOR SYSTEMWIDE GEOMETRY.
- THIS SHEET IS NOT TO SCALE. DESIGNER TO DETERMINE APPROPRIATE SCALE ON GENERAL PLAN AND ELEVATION SHEET TO ACCURATELY REPRESENT REQUIRED INFORMATION.
- A BYPASS STRUCTURE IS REQUIRED IF THE PEAK FLOW EXCEEDS THE CAPACITY OF THE STORMWATER TREATMENT SYSTEM'S INTERNAL OVERFLOW WEIR OR TO REDUCE THE SIZE OF THE STORMWATER TREATMENT
- ALL DIMENSIONS DESIGNATED "X" ARE REQUIRED AND SHALL BE UPDATED BY THE DSE.
- TAPER RATE FOR MAINLINE INSTALLATIONS SHALL BE 30:1. TAPER RATE FOR RAMPS AND C-D ROADWAYS SHALL NOT EXCEED THE RATES SHOWN IN AASHTO RDG TABLE

Illinois

BUMP OUT FOR STORMWATER TREATMENT SYSTEM

2022-03

M-DRN-605

1 OF 1

Tollway

#6 ax(E) @ 7" CTS. (TOP) #5 ax(E) @ 14" CTS. (BOTTOM) A **◀**┐ FRAME & GRATE TYPE 20A (SEE STANDARD B25 JOINT OR END OF SLAB FOR DETAILS) 2" CLEARANCE TO FRAME AND GRATE SEE NOTE 2 (TYP.) FRONT FACE OF BARRIER BACK FACE OF BARRIER 2 - #X @ X" CTS. (TOP & BOTTOM) EACH SEE DETAIL A FACE OF RETAINING WALL CORNER (SEE NOTE 3) FACE OF COPING **©** DRAINAGE STRUCTURE #5 dx(E) BARS @ 7" CTS.

PLAN - DRAINAGE STRUCTURE TOP REINFORCING IN BARRIER NOT SHOWN FOR CLARITY

- PLACEMENT OF THE DRAINAGE STRUCTURE. DSE SHALL REFER TO THE STRUCTURE DESIGN MANUAL FOR THE DESIGN OF ALL STRUCTURAL ELEMENTS.
- ALL VALUES DESIGNATED "X" ARE REQUIRED AND SHALL
- USE 1'-0" MAXIMUM FOR DIMENSION Y TO ENSURE DRAINAGE STRUCTURE CAN BE LOCATED AT THE FRONT
- USE 1'-4" MINIMUM FOR DIMENSION Z. THICKNESS MAY BE MODIFIED TO ACCOMMODATE ADJACENT PAVEMENT.
- THIS BASE SHEET ILLUSTRATES TYPICAL DETAILS FOR A 44" BARRIER AND MOMENT SLAB WITH CATCH BASIN TYPE G-3 (MODIFIED) WITH FRAME AND GRATE TYPE 20A. DESIGNER SHALL MODIFY DETAILS FOR OTHER TYPES OF MOMENT SLABS, BARRIER HEIGHT AND / OR DRAINAGE STRUCTURES.

TATATATATATATATATATA

DESIGNATED a(E) THROUGH w(E) WITH ACTUAL BAR

NOTES TO DESIGNER

THE PURPOSE OF THIS BASE SHEET IS TO SHOW THE

ADJUST LEGS OF dx(E)

BARS IN THE FIELD TO

DRAINAGE STRUCTURE

CLEAR OPENING FOR

- BE PROVIDED BY THE DSE.
- FACE OF BARRIER WALL

- DESIGNER SHALL REPLACE BAR MARK CALLOUTS



SECTION THROUGH MOMENT SLAB WITH DRAINAGE STRUCTURE DETAIL

M-DRN-606

NOTES:

MSE WALL SUPPLIER TO DESIGN LOAD TRANSFER SYSTEM TO ACCOMMODATE DRAINAGE STRUCTURE.

FIELD CUT MOMENT SLAB REINFORCEMENT ONLY AS REQUIRED FOR DRAINAGE STRUCTURE

SPACE PERMITS.

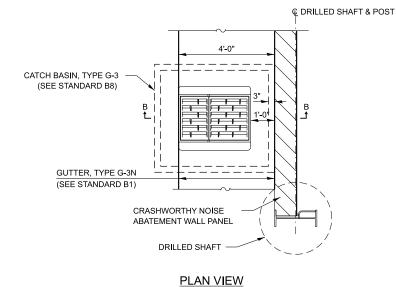


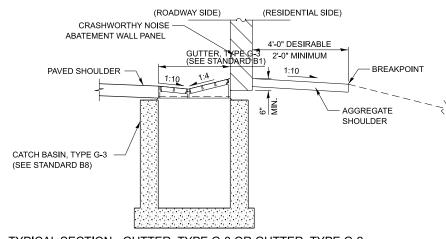
THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN $^{\circ}$ OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNED" POWER SHEET OF THE DESIGNED" POWER SHEET OF THE DESIGNED POWER SHEET OF THE DESIGN CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE FREMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE

TITIII.

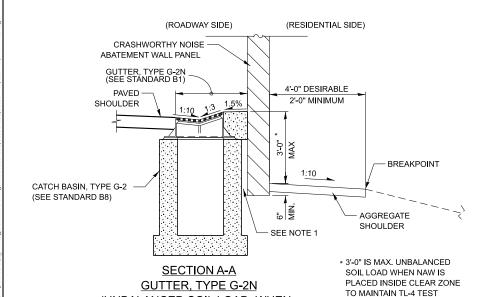
SHEET INTO THE PLAN SET.

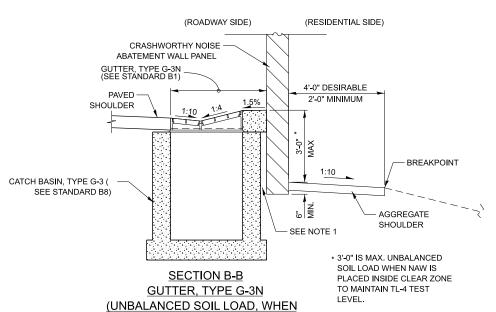
PLACE BARS SYMMETRICALLY ABOUT CENTERLINE OF DRAINAGE STRUCTURE AS



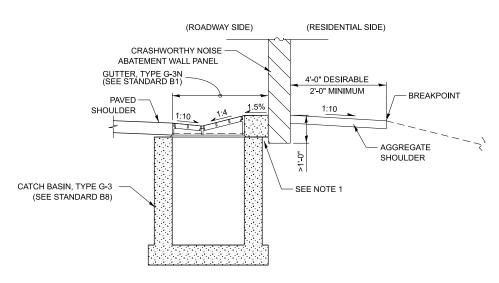


TYPICAL SECTION - GUTTER, TYPE G-3 OR GUTTER, TYPE G-2 (GUTTER, TYPE G-3 SHOWN) (BALANCED SOIL LOAD, WHEN PANEL EMBEDMENT DEPTH IS \leq 1 FT)





DRAINAGE STRUCTURE IS ON HIGH SIDE)



 $\frac{\text{TYPICAL SECTION - GUTTER, TYPE G-3N OR GUTTER, TYPE G-2N}}{\left(\text{GUTTER TYPE G-3N SHOWN}\right)}\\ \left(\text{BALANCED SOIL LOAD, WHEN PANEL EMBEDMENT DEPTH IS > 1 FT.}\right)$

NOTE TO DESIGNER

(UNBALANCED SOIL LOAD, WHEN

DRAINAGE STRUCTURE IS ON HIGH SIDE)

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS
NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE
DESIGNER PRIOR TO INSERTION INTO A CONTRACT.
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"
ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE
DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN
OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A
CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE
REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE
SHEET INTO THE PLAN SET.

NOTES TO DESIGNER

I. FOR NOISE ABATEMENT WALL DETAILS, REFER TO ILLINOIS TOLLWAY STANDARD DRAWINGS G15 AND G16.

2. FOR THE SELECTION OF GUTTER TYPE, REFER TO ROADWAY DESIGN CRITERIA MANUAL, ARTICLE 2.6.6.

NOTES:

LEVEL.

 FILL GAP WITH CLSM, GROUT OR CLASS SI CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.



NOISE ABATEMENT WALL DRAINAGE DETAILS (ROADWAY SIDE)

VERSION: 2023-03 STANDARD: M-DRN-607

07 | SHEET:

SCALE: 0.16666633 1/in PAGE SIZE: 17v11 (in)

TYPICAL SECTION - DITCH AT THE TOP OF BACKSLOPE

(RESIDENTIAL SIDE)

4'-0" DESIRABLE

2'-0" MINIMUM

AGGREGATE SHOULDER

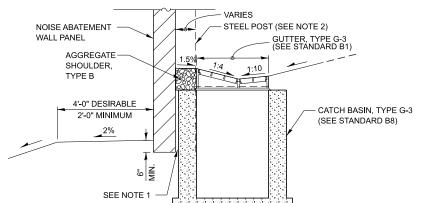
(ROADWAY SIDE) (RESIDENTIAL SIDE)

(ROADWAY SIDE)

4'-0" DESIRABLE

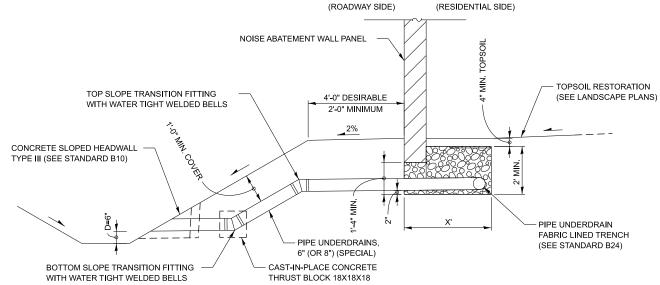
2'-0" MINIMUM

NOISE ABATEMENT WALL PANEL

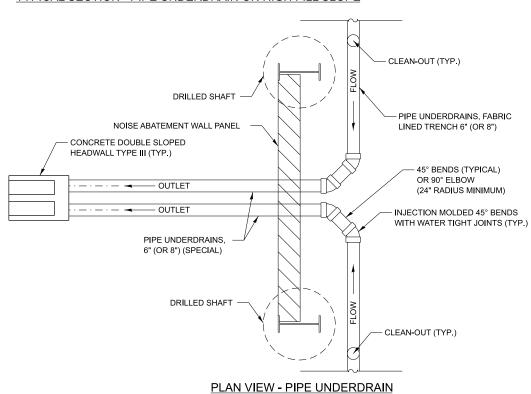


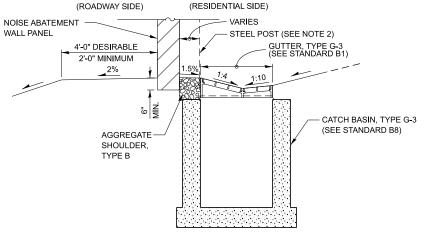
TYPICAL SECTION - GUTTER, TYPE G-3 OR GUTTER, TYPE G-2 (GUTTER, TYPE G-3 SHOWN) (UNBALANCED SOIL LOAD, WHEN DRAINAGE STRUCTURE IS ON HIGH SIDE)

TYPICAL SECTION - PIPE UNDERDRAIN



TYPICAL SECTION - PIPE UNDERDRAIN ON HIGH FILL SLOPE





TYPICAL SECTION - GUTTER, TYPE G-3 OR GUTTER, TYPE G-2 (GUTTER, TYPE G-3 SHOWN) (BALANCED SOIL LOAD, WHEN PANEL EMBEDMENT DEPTH IS ≤ 1 FT)

10'-0" (DES.)

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" -ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE PARE AVAILABLE ON THE ILLINOIS TOLLWAT WILDOWN THE DESIGN DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN AND INSEPTION INTO A TOF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE ${m y}$ REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET TITITION THE PENGLIN

- EXISTING GROUND

NOTES TO DESIGNER

- THE DETAILS SHOWN ARE ACCEPTABLE OPTIONS TO DRAIN THE AREA ADJACENT TO A NOISE ABATEMENT WALL (RESIDENTIAL SIDE). THE MOST FEASIBLE OPTION IS SITE SPECIFIC. IF GUTTER IS USED, REFER TO ROADWAY DESIGN CRITERIA MANUAL, ARTICLE 2.6.6 FOR THE SELECTION OF GUTTER TYPE. THE DESIGNER IS RESPONSIBLE FOR PROVIDING SUPPORTING DRAINAGE CALCULATIONS TO DETERMINE THE MOST FEASIBLE OPTION. THE DESIGNER IS ALSO RESPONSIBLE FOR DESIGNING AND DETAILING ALL DITCHES, DRAINAGE STRUCTURES AND STORM SEWERS ON THE DRAINAGE PLAN AND PROFILES.
 - DETERMINE DIMENSION X TO OFFSET PIPE UNDERDRAIN TO AVOID CONFLICT WITH THE DRILLED SHAFTS.
 - PIPE UNDERDRAINS SHALL MEET THE REQUIREMENTS OF DDM ARTICLE 9.7.2, DDM TABLE 9.3 AND STANDARD B24.

TARAKARAKAKAKAKA

FOR NOISE ABATEMENT WALL DETAILS, REFER TO ILLINOIS TOLLWAY STANDARD DRAWINGS G15 AND G16.

- FILL GAP WITH CLSM, GROUT OR CLASS SI CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- PROVIDE JOINT FILLER BETWEEN THE STEEL POST AND



NOISE ABATEMENT WALL DRAINAGE DETAILS (RESIDENTIAL SIDE)

M-DRN-608