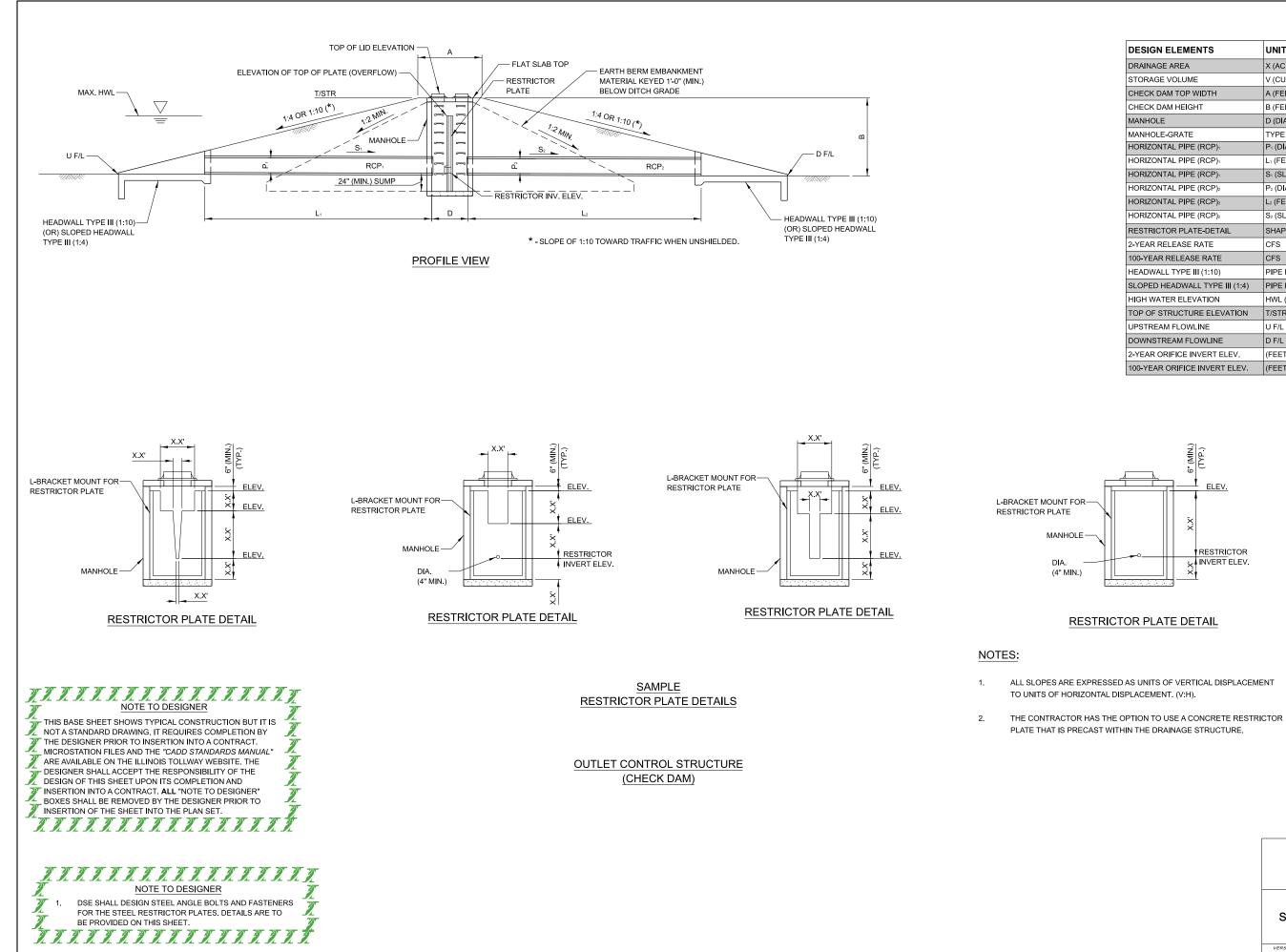
Illinois Tollway Base Sheet Revisions

ion M	Base Sheet Drawings						
	Drawing	Modification Summary	Effective: 03-01-2024				
		Drainage (DRN)-	Series 600				
	M-DRN-601	SLOPE DRAIN					
		Added callouts for the structures that are pa	hid for separately.				
		Added columns in the schedule for "U/S Dra and "Pay Item."	ainage Structure No.", "D/S Drainage Structure No				
	M-DRN-603	3 ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM					
		Revised Note to Designer Number 4.					
	M-DRN-606	EXPOSED MOMENT SLAB WITH DRAINA	AGE STRUCTURE				
		Renamed the base sheet from "Section thro to "Exposed Moment Slab with Drainage Str	ough Moment Slab with Drainage Structure Detail" ructure."				
		Revised the display of the load transfer syst	tem and soil reinforcement in Section A-A.				
		Added callouts for 1/2" Preformed Joint Fille	er and sealant in Section A-A.				
	M-DRN-607	NOISE ABATEMENT WALL DRAINAGE D	DETAILS (ROADWAY SIDE)				
		Added clearance requirement between catc	h basin and drilled shaft.				

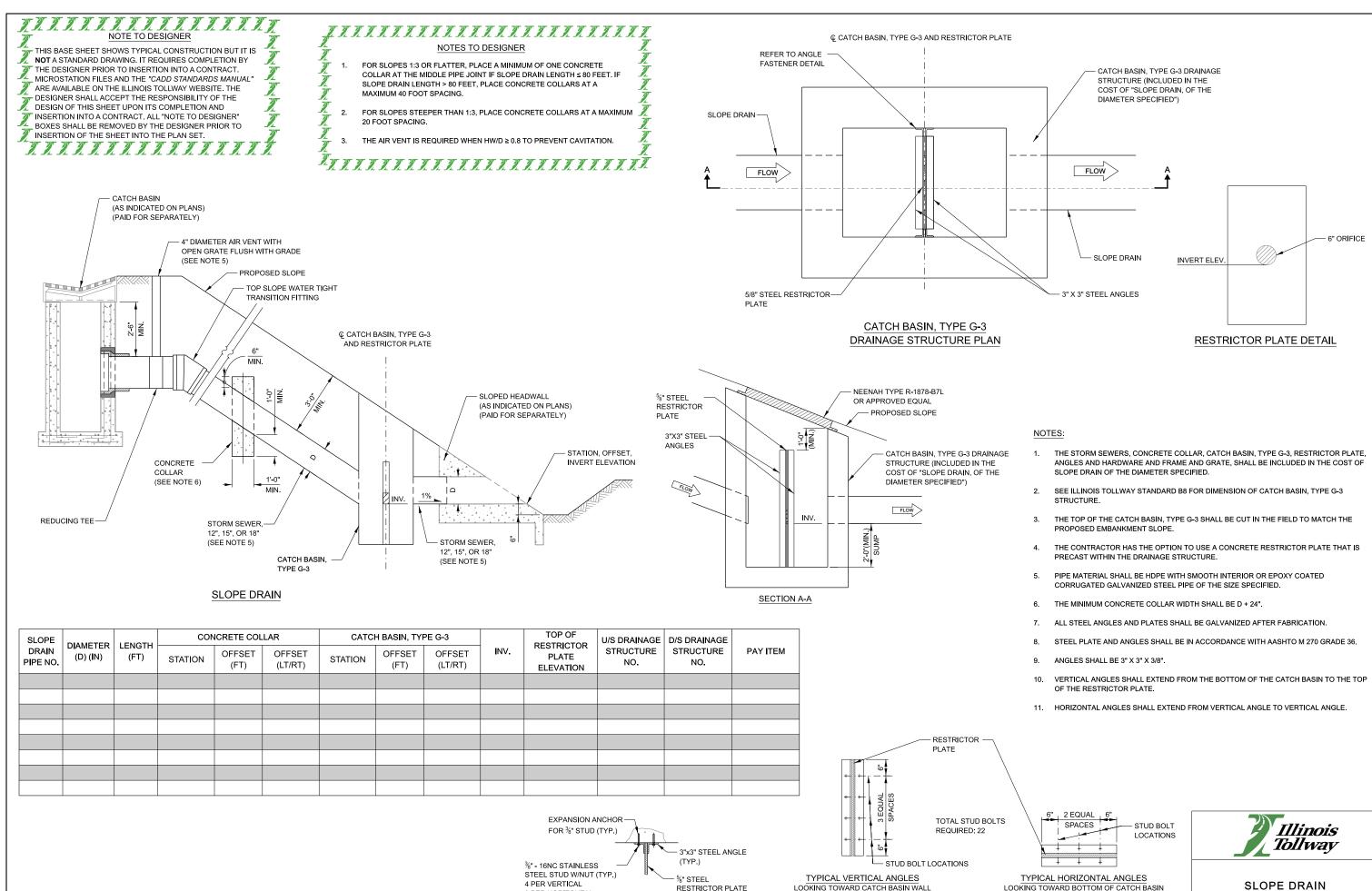


Retired Standard

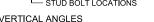


DESIGN ELEMENTS	UNITS	VALUES
DRAINAGE AREA	X (ACRES)	
STORAGE VOLUME	V (CU. YD.)	
CHECK DAM TOP WIDTH	A (FEET)	
CHECK DAM HEIGHT	B (FEET)	
MANHOLE	D (DIAMETER)	
MANHOLE-GRATE	TYPE	
HORIZONTAL PIPE (RCP)1	P1 (DIAMETER)	
HORIZONTAL PIPE (RCP)1	L1 (FEET)	
HORIZONTAL PIPE (RCP)1	S1 (SLOPE)	
HORIZONTAL PIPE (RCP)2	P₂ (DIAMETER)	
HORIZONTAL PIPE (RCP)2	L <sub>2</sub> (FEET)	
HORIZONTAL PIPE (RCP)2	S <sub>2</sub> (SLOPE) (%)	
RESTRICTOR PLATE-DETAIL	SHAPE	
2-YEAR RELEASE RATE	CFS	
100-YEAR RELEASE RATE	CFS	
HEADWALL TYPE III (1:10)	PIPE DIAMETER	
SLOPED HEADWALL TYPE III (1:4)	PIPE DIAMETER	
HIGH WATER ELEVATION	HWL (FEET)	
TOP OF STRUCTURE ELEVATION	T/STR (FEET)	
UPSTREAM FLOWLINE	U F/L (FEET)	
DOWNSTREAM FLOWLINE	D F/L (FEET)	
2-YEAR ORIFICE INVERT ELEV.	(FEET)	
100-YEAR ORIFICE INVERT ELEV.	(FEET)	





FOR %" STUD (TYP.)	
~ /	3"x3" STEEL ANGLE (TYP.)
%" - 16NC STAINLESS	
STEEL STUD W/NUT (TYP.)	1
4 PER VERTICAL	
3 PER HORIZONTAL	RESTRICTOR PLATE



LOOKING TOWARD CATCH BASIN WALL

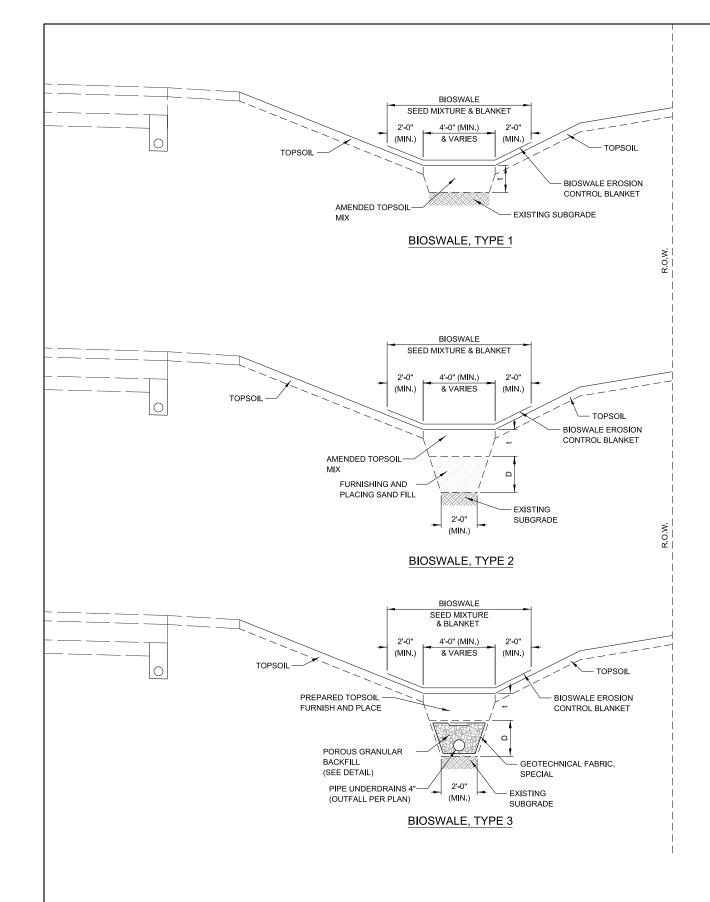
ANGLE FASTENER DETAIL

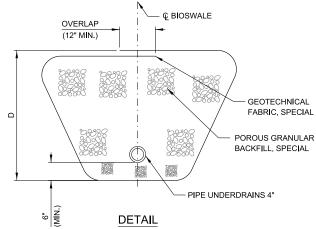
STEEL ANGLE BOLTING DETAILS

### SLOPE DRAIN

2024-03

M-DRN-601

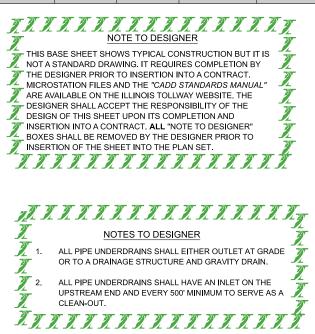




## NOTES:

1

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



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

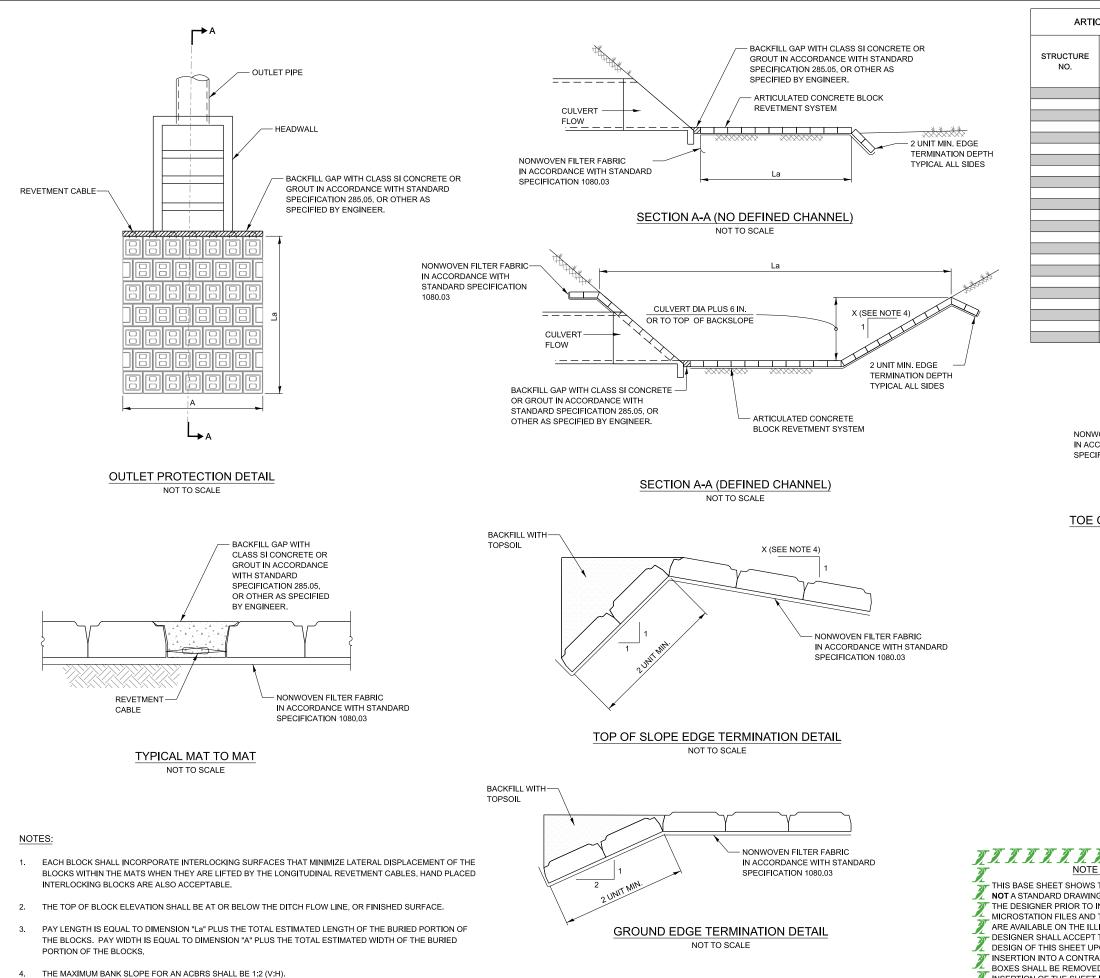


# BIOSWALE

2016-03

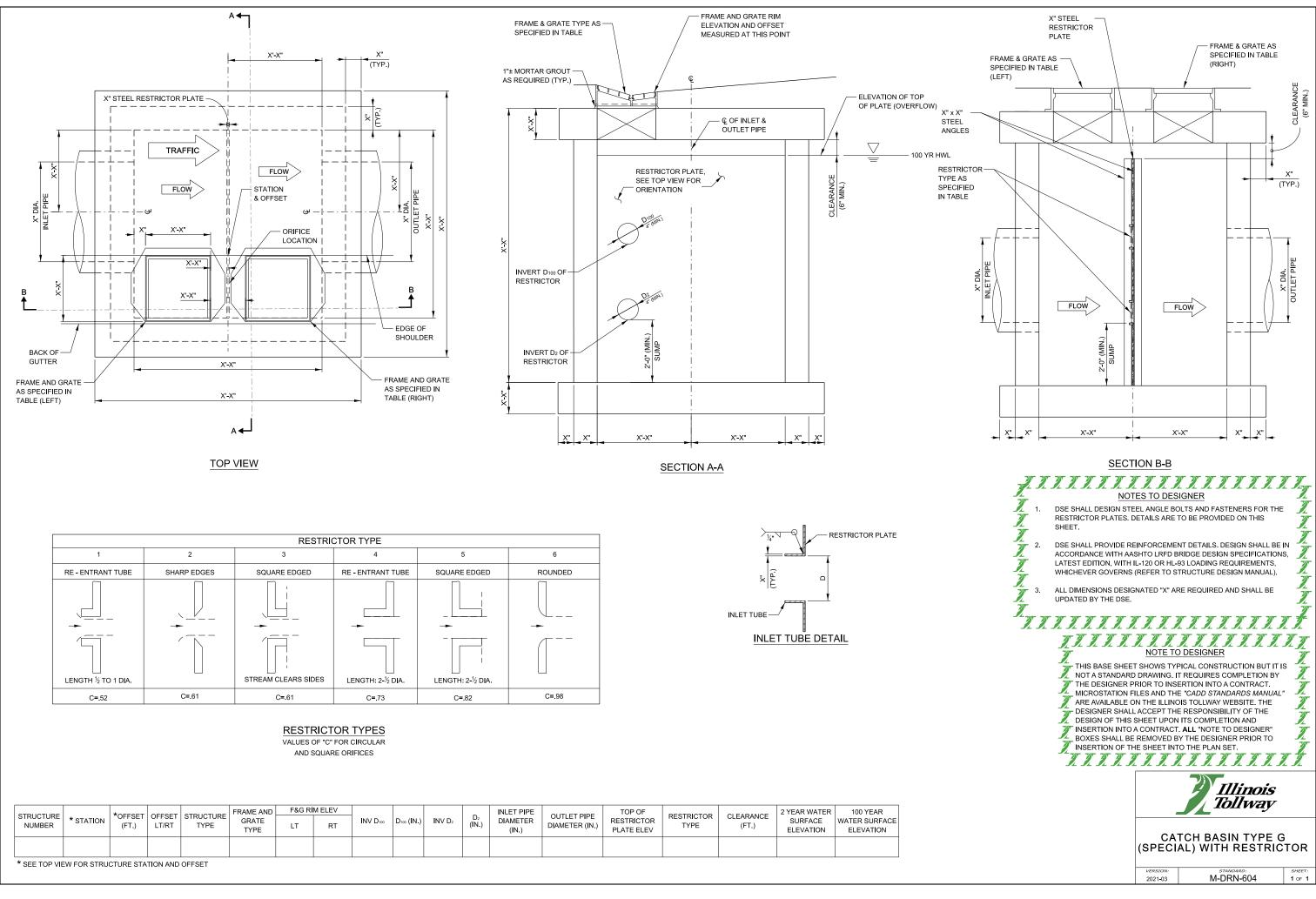
M-DRN-602

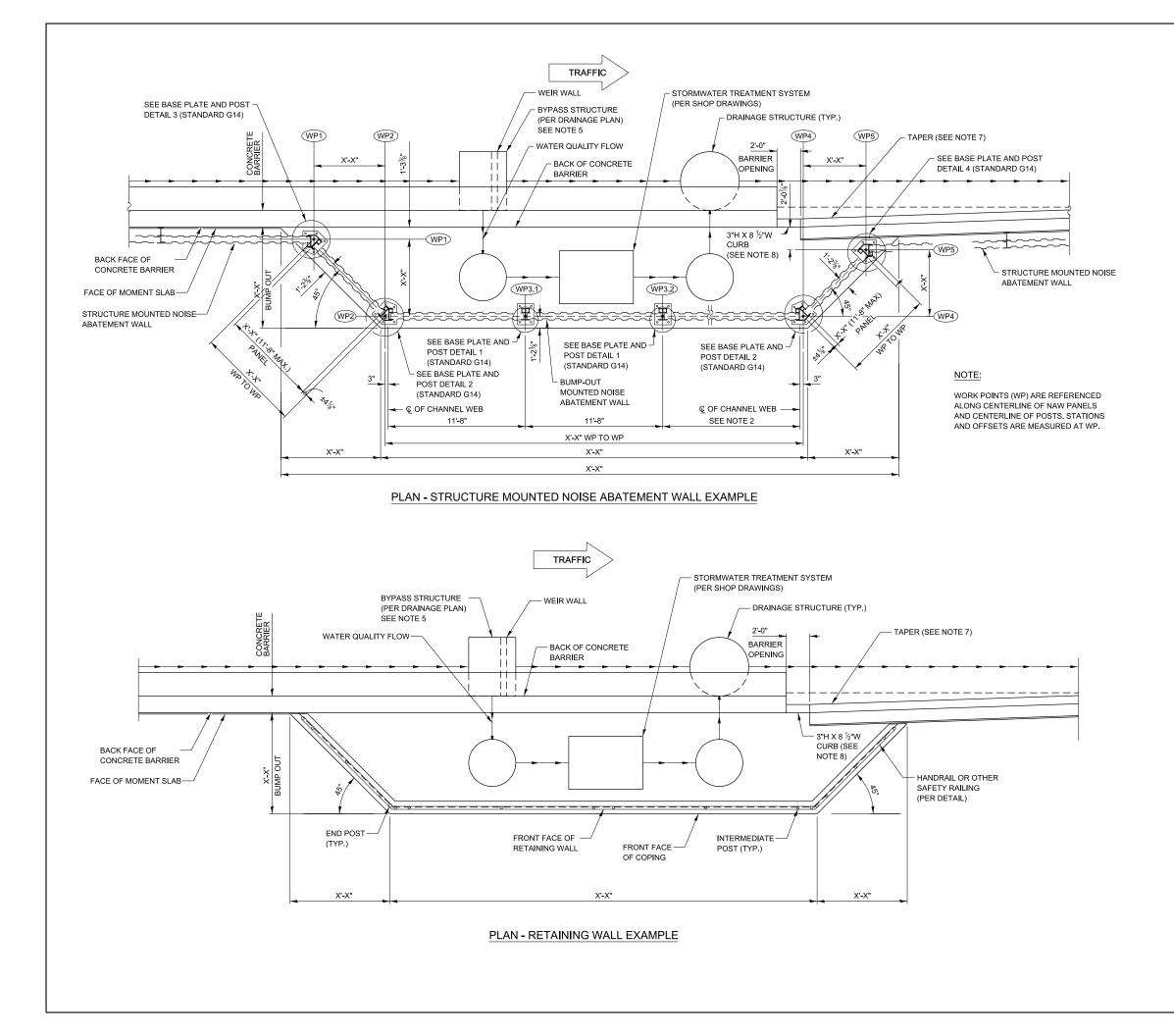
1 OF 1



INSERTION OF THE SHEET **王王王王王王**]

CULATED C	ONC	RETEI	BLOCK RE		SYSTEM	(ACE	RS) SCHEDU	JLE	
D (IN.)	La (FT.)	A (FT.)	PAY LENGTH (FT.) (SEE NOTE 3)	PAY WIDTH (FT.) (SEE NOTE 3)	BLOCK TYPE	CON	MAT	ACBRS (SQ YD)	
			X (SEE N	0124)	BACKFILL V TOPSOIL	VITH-			
		Y		1	_				
					T	<	4		
VOVEN FILTE				/		$\backslash$	<u>۲</u>		
CORDANCE V		TANDA	RD	$\mathbf{x}$			$\sim$		
					2 UNIT MI	1	//		
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OF SLOF			TERMIN SCALE	ATION [	DETAIL		$\checkmark$		
7)				<b>)</b> ) ) )	r 75 75	7			T T
1	<i>.</i>				S TO DESI				n ji
I. X. X.	1.	INCLU	JDING BOTH ALLATION W	H VISIBLE A /HICH ARE I	REA AND TI	HE BL		STALLED MATS, DRTIONS OF THE OMPLETION	X X X
X X Y	<ul> <li>INSTALLATION WHICH ARE NOT VISIBLE UPON PROJECT COMPLETION (EDGE TERMINATION).</li> <li>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.</li> <li>THE NONWOVEN FILTER FABRIC SHALL BE INCLUDED IN THE COST OF THE ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (ACBRS) OF THE TYPE SPECIFIED.</li> <li>THE NONWOVEN FILTER FABRIC SHALL NOT BE INCLUDED IF A DEEP- ROOTED PLANT (SEED MIX 3 AND ABOVE) IS USED IN CONJUNCTION WITH THE ACBRS.</li> <li>TOPSOIL USED TO BACKFILL THE REVETMENT SYSTEM SHALL BE INCLUDED IN THE COST OF THE ACBRS OF THE TYPE SPECIFIED. SEEDING AND EROSION CONTROL BLANKET TYPE SHALL BE SHOWN ON THE LANDSCAPE PLANS AND WILL BE PAID FOR SEPARATELY.</li> </ul>								
Ĭ X	AVAILABLE WHERE THOSE INCREMENTS ARE NOT FEASIBLE.								
I. I. V	Image: Type Specified.       I								
I I I	Image: The ACBRS.       Image: The ACBRS.         Image: TopSoil Used to BACKFILL THE REVETMENT SYSTEM SHALL BE INCLUDED IN THE COST OF THE ACBRS OF THE TYPE SPECIFIED. SEEDING AND         Image: TopSoil Used to BACKFILL THE REVETMENT SYSTEM SHALL BE INCLUDED IN THE COST OF THE ACBRS OF THE TYPE SPECIFIED. SEEDING AND								
<sup>P</sup> IIIIIIIIIIIIIIIIIIIIII TITIIIIII TOPESIONER									
TYPICAL CO	TO DESIGNER TYPICAL CONSTRUCTION BUT IT IS								
G. IT REQUIRES COMPLETION BY NSERTION INTO A CONTRACT. THE "CADD STANDARDS MANUAL" INOIS TOLLWAY WEBSITE. THE THE						Illinois Tollway			
THE RESPO									·
ACT. ALL "NO ED BY THE DE I INTO THE PL	SIGNE AN SE	ER PRIO ET.	OR TO	X X				IENT SYS	
E N N N N N N N N N N					VERSI 2024-			RN-603	SHEET: 1 OF 1







### エスエスエスエスエスエスエス NOTES TO DESIGNER X THIS BASE SHEET REPRESENTS THE TYPICAL DETAILS X FOR BUMP-OUT RETAINING WALLS OR MOUNTED, NOISE ABATEMENT WALLS. THE DSE IS RESPONSIBLE FOR X COMPLETING THE TABLES AND INCLUDING THEM IN THEIR CONTRACT PLANS. IF ANY OF THE DESIGN PARAMETERS IN オオオオオオオオオオオ 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

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7.

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 SYSTEM.

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 5-9.

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THE CURB SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE.



BUMP OUT FOR STORMWATER TREATMENT SYSTEM

