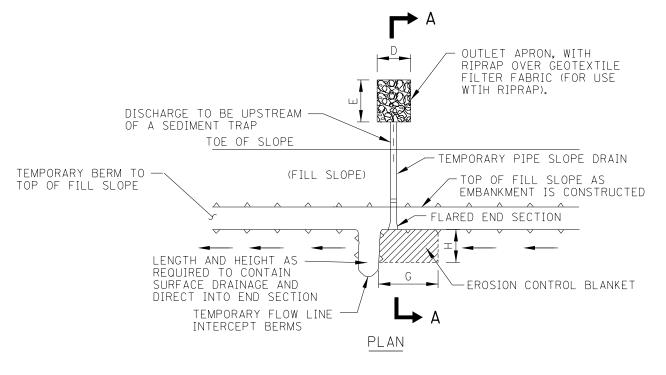
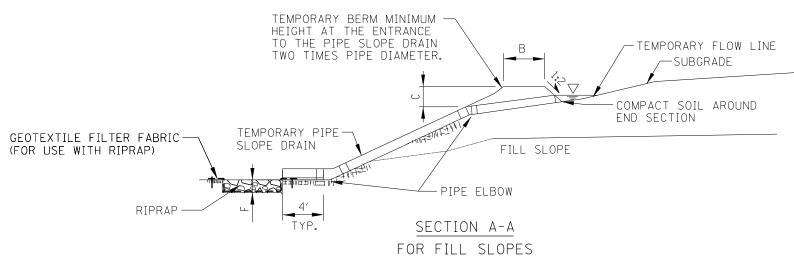
Illinois Tollway Base Sheet Revisions

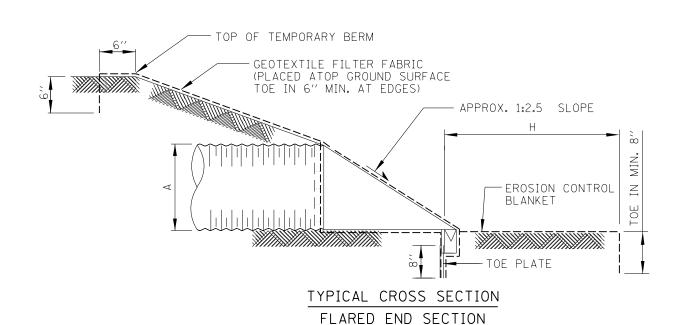
Drawing	Modification Summary Effective: 03-31-2016
All	The electronic (pdf) version of the Standard Drawing are now made searchable (text).
	Erosion Sediment Control (ESC)-Series 200
	Sediment Basin Dewatering Device
	Revised Note 7, removed proprietary name from skimmer device.
	Roadway (RDY)-Series 400
M-RDY-408	Approach Slab, Mainline
All	Changed Transverse Reinforcement size and spacing in the bottom mat of the bridge approach slab and transition apshoulder slabs from #6@9" to #8@4" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Transverse Reinforcement size and spacing in the top mat of the bridge approach slab and transition approach slabs from #5@12" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Longitudinal Reinforcement size and spacing in the top mat of the bridge approach slab and transition appr shoulder slabs from #4@15" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Added note *** to clarify that base sheet reinforcement is for approach slabs not located on retaining walls. If approach is placed on retaining wall, reinforcement shall be designed for TL-5 crash loading.
All	Changed spacing and shape of both dxx vertical bars in the barrier on the bridge approach slab and transition approa shoulder slab to match the vertical bars in the bridge parapet and moment slab barrier.
All	Changed top mat reinforcement cover to 2.25" to be consistent with deck and moment slab clearances.
Sheets 1,2	Updated Note to Designer for Drainage Structures. Designer to determine size, type and location.
Sheets 1,2	Changed approach slab shoulder width requirements to match Structures Design Manual.
Sheet 3	Added option of using subgrade aggregate, special under the transition approach slab.
Sheet 3	Added additional Approach Slab Barrier Elevation to distinguish between non-integral and integral/semi-integral abutr
	Eliminated Optional Longitudinal Joint Within a Traffic Lane detail.
	Changed Neoprene Sheet to Elastomeric Sheet to keep call out generic and not specific.
	Revised Bill of Material to clarify Pay Items and Pay Item Numbers to be included. Added note to Typical Barrier Transition Detail to clarify where the 1'-9" dimension should be measured.
M-RDY-409	Approach Slab, Ramp
All	Changed Transverse Reinforcement size and spacing in the bottom mat of the bridge approach slab and transition ap shoulder slabs from #6@9" to #8@4" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Transverse Reinforcement size and spacing in the top mat of the bridge approach slab and transition appro shoulder slabs from #5@12" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Longitudinal Reinforcement size and spacing in the top mat of the bridge approach slab and transition approach slabs from #4@15" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Added note *** to clarify that base sheet reinforcement is for approach slabs not located on retaining walls. If approach is placed on retaining wall, reinforcement shall be designed for TL-5 crash loading.
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All	Changed top mat reinforcement cover to 2.25" to be consistent with deck and moment slab clearances.
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·	Added option of using subgrade aggregate, special under the transition approach slab.
	Added additional Approach Slab Barrier Elevation to distinguish between non-integral and integral/semi-integral abutr
	Eliminated Optional Longitudinal Joint Within a Traffic Lane detail.
Sheet 4	Changed Neoprene Sheet to Elastomeric Sheet to keep call out generic and not specific.
Sheet 5	Revised Bill of Material to clarify Pay Items and Pay Item Numbers to be included.
Sheet 5	Added note to Typical Barrier Transition Detail to clarify where the 1'-9" dimension should be measured.
M-RDY-410	Reserved
M-RDY-411	Emergency Turnaround Median Width <u>></u> 35 Ft
	Bridge (BRG)-Series 500
	Expansion Joint Repair Base Sheet was removed since details did not match Special Provision.
M-BRG-507	Crash Wall Modifications Median Piers
	Crash Wall Modifications Median Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars.
M-BRG-508	
M-BRG-508	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars.
M-BRG-508	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details
M-BRG-508 M-BRG-525	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600
M-BRG-508 M-BRG-525 M-DRN-601	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600 Slope Drain
M-BRG-508 M-BRG-525 M-DRN-601	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600
M-BRG-508 M-BRG-525 M-DRN-601	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600 Slope Drain Revised storm sewer to "Class B, 12".

Base Shee	et Drawings	
Drawing		
	Maintenance of Traffic (MOT)-Series 700	
M-MOT-70	00 Temporary Concrete Barrier "Y" Connector Segment	
	Revised Barrier Details Notes.	
	Changed barrier edges chamfered from 1/2" to 1" on all edges (optional).	
	Overhead Sign (OHS)-Series 720	
M-OHS-72	20 Overhead Sign Structure Span Type Summary and Total Bill of Material	
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
M_OHS_72	21 Overhead Sign Structure Cantilever Type Summary and Total Bill of Material	
141-0113-12	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
M-OHS-72	22 Overhead Sign Structure Entrance Monotube Type (Steel) Mainline Summary and Total Bill of Mate	erial
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	-1
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table and Total Bill of M	ater
M-OHS-72	23 Overhead Sign Structure Exit Monotube Type (Steel) Mainline Summary and Total Bill of Material	
0110 12	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table and Total Bill of M	ater
M-OHS-72	Overhead Sign Structure Butterfly Type (Steel) Summary and Total Bill of Material	
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure. Removed Truss Extension for Mounting Walkway detail and references	
	Added "L" column and removed TGL and TGL1 from the Summary Table	
	Added E Coldmit and temoved TGE and TGET from the Summary Table	
M-OHS-72	Overhead Sign Structure Entrance Monotube Type (Steel) AET Ramp Summary and Total Bill of M	ateri
01.10 11	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table.	
M-OHS-72	Overhead Sign Structure Exit Monotube Type (Steel) AET Ramp Summary and Total Bill of Materia	ĺ
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table.	
M-OHS-72	27 Overhead Sign Structure Exit Monotube Type (Steel) Cash-IPO Ramp Summary and Total Bill of M	ateri
01.0 12	Added Protective Coat (SQ YD) to Summary Table	<u></u>
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table.	
M-OHS-72	Overhead Sign Structure Span Type (Steel) Summary and Total Bill of Material	
	Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
	Claimed Class St and Class DS Concrete are included in Foundation For Overhead Sign Structure.	
M-OHS-72	29 Overhead Sign Structure ITS Gantry Frame (Steel) Single Span Structure Details	
Sheet 1		/.
Sheet 4		
Sheet 5	Revised Note 1 to clarify requirements for Contractor when soil conditions are not met in the field.	
Sheet 5		
Sheet 5		
Sheet 6		
Sheet 6	· · · · · · · · · · · · · · · · · · · ·	
Sheet 7	Added note 5 to clarify limits of protective coat and revised protective coat quantity in Median Foundation Schedule.	
M-OHS-73	30 Overhead Sign Structure ITS Gantry Frame (Steel) Two-Span Structure Details	
Sheet 1	Revised Material Specification Table to specify ASTM A500 Gr C & B for Frame & Mounting Beam HSS, respectively	/.
Sheet 4		•
Sheet 6		
Sheet 6		
Sheet 6	Updated anchor bolt note to allow ASTM F1554 bolts.	
Sheet 7		
Sheet 7	· · · · · · · · · · · · · · · · · · ·	
Sheet 8	Added note 5 to clarify limits of protective coat and revised protective coat quantity in Median Foundation Schedule.	
	Dala Assambly Carios 4000	
M-ITS-100	Pole Assembly-Series 1000 O ELEVATION VIEWS POLE MOUNTED ITS ELEMENT ASSEMBLY	
141-113-100	Added 30A-2P NEMA 4X DISC MTD ON SUPPORT DETAIL.	
M-ITS-100	1 GENERAL NOTES POLE MOUNTED ITS ELEMENT ASSEMBLY	
	Added Note 16 regarding disconnect switch usage.	
M-ITS-100	22 ITS STANDARD FOUNDATION: New Sheet	
	Dynamic Message Sign (ITS) - Series 1100	
	00 Revised conduit call-outs	
M-ITS-110	Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETAIL. Removed pad mounted transformer.	
	Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETAIL. Revised Note 2 to eliminate 120/208V and pad mour	nt.
	Cabinet Wiring-Series 1200	
IM ITC 420	00 Cabinet Wiring	
All	Added HOT3, NB, and GB to Duplex Receptacle.	
All M-ITS-125	Added HOT3, NB, and GB to Duplex Receptacle. 55 Added HOT5 to Duplex Receptacle. 56 Deleted HOT5 from Video Distributiom Panel.	

Drawing	Modification Summary Effective: 03-31-2016
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	Weigh-In-Motion - Series 1600
Л-WIM-1600	WEIGH-IN-MOTION CABINET AND FOUNDATION DETAILS
	WEIGH-IN-MOTION IP CAMERA DETAILS
	WEIGH-IN-MOTION LOOP DETECTOR DETAILS
	WEIGH-IN-MOTION DETECTOR LOOP AND QUARTZ SENSOR DETAIL
	INSTALLATION DETAIL DETECTOR HOUSING & DETECTOR HOUSING ADAPTER
Л-WIM-16 05	WEIGH-IN-MOTION DETECTOR HOUSING DETAIL
	Flashing Sign Beacon - Series 1700
M-ITS-1700	FLASHING SIGN BEACON INSTALLATION BREAKAWAY ELECTRICAL DETAIL
M-ITS-1701	FLASHING SIGN BEACON INSTALLATION WIRING DIAGRAM
	Conduit Details at Integral Abutment-Series 1900
M-ITS-1900	CONDUIT DETAILS AT INTEGRAL ABUTMENT BRIDGE STANDARD SLOPE WALL
	Business Systems (BUS)- Series 2500
M-BUS-2500	CABLE CONDUIT SCHEDULE AND GENERAL NOTES
	LEGEND SYMBOL LIST, ABBREVIATIONS AND EQUIPMENT SCHEDULES
	SINGLE LINE DIAGRAM AND UTILITY POWER CABLE/CONDUIT SCHEDULE
	CONTROL BUILDING LIGHTING PLAN AND MISCELLANEOUS DETAILS - MAIN PLAZA
	CONTROL BUILDING LIGHTING PLAN AND MISCELLANEOUS DETAILS - REMOTE PLAZA
	CONTROL BUILDING GROUNDING DETAILS - MAIN PLAZA
	CONTROL BUILDING GROUNDING DETAILS - REMOTE PLAZA
	GROUNDING SCHEMATIC
	CONTROL BUILDING MISCELLANEOUS DETAILS
	UPS SINGLE LINE AND WIRING DIAGRAM
	MISCELLANEOUS SCHEMATIC DIAGRAMS
	VIDEO POWER JUNCTION BOX DETAIL - MAIN PLAZA
	VIDEO POWER JUNCTION BOX DETAIL - MAIN PLAZA VIDEO POWER JUNCTION BOX DETAIL - REMOTE PLAZA
	VIDEO POWER JOINTHON BOX DETAIL - REMOTE PLAZA VIDEO WATCHDOG CAMERA DETAILS
	RAMP PLAZA MONOTUBE DETAILS ACM AND IPO LANES
	LOOP JUNCTION BOX DETAIL
	CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN - MAIN PLAZA
	CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN -REMOTE PLAZA
	MISCELLANEOUS CROSS SECTION DETAILS
	COMED TRANSFORMER PAD DETAIL
	ELECTRICAL SITE PLAN - ACM AND IPO LANES MAIN DI AZA
	UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - MAIN PLAZA
	PLAZA I-PASS PLANS - ACM AND IPO LANES
	UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - REMOTE PLAZA
	AUTOMATIC LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
	IPASS ONLY (IPO) LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
	TOLL EQUIPMENT WIRING DIAGRAM - ACM AND IPO LANES
	LOOP AND TREADLE INSTALLATION DETAILS - ACM AND IPO LANES
	CONTROL BUILDING TSIC - ACM AND IPO LANES - MAIN PLAZA
	CONTROL BUILDING TSIC - ACM AND IPO LANES - REMOTE PLAZA
	TSIC TERMINAL BLOCK LAYOUT - ACM AND IPO LANES MAIN DLAZA
	CONTROL BUILDING EQUIPMENT LAYOUT - ACM AND IPO LANES - MAIN PLAZA
	CONTROL BUILDING EQUIPMENT LAYOUT - ACM AND IPO LANES - REMOTE PLAZA
	CONTROL BUILDING R3 RACK - MAIN PLAZA
	CONTROL BUILDING R3 RACK - REMOTE PLAZA
	MISCELLANEOUS DETAILS -ACM AND IPO LANES
	PANELBOARD SCHEDULES FOR TP1 AND TP2 - ACM AND IPO LANES
	PANELBOARD SCHEDULES FOR MDP AND UPS UNITS - ACM AND IPO LANES
	FIBER INTERCONNECTIONS BETWEEN MAIN AND REMOTE PLAZAS - ACM AND IPO LANES
	PLAZA LANE CONTROL SIGNAL - ACM AND IPO LANES
	TRAFFIC LIGHT DETAILS - ACM LANES
	TRAFFIC LIGHT DETAILS - IPO LANES
M-BUS-2542	ELECTRICAL SITE PLAN AET LANES
M-BUS-2543	UNDERGROUND CONDUIT PLAN - MAIN PLAZA
M-BUS-2544	UNDERGROUND CONDUIT PLAN - MAIN PLAZA PLAN - REMOTE PLAZA
M-BUS-2545	CONTROL BUILDING EQUIPMENT LAYOUT - REMOTE PLAZA
M-BUS-2546	CONTROL BUILDING EQUIPMENT LAYOUT - MAIN PLAZA
	CONTROL BUILDING TSIC - MAIN AND REMOTE PLAZAS - AET LANES
	TSIC TERMINAL BLOCK LAYOUT - ACM AND IPO LANES REMOTE PLAZAS - AET LANES
	PANELBOARD SCHEDULES - MAIN PLAZA AET LANES
	PANELBOARD SCHEDULES - REMOTE PLAZA AET LANES
	WIRING DIAGRAM - AET 1-LANE LAYOUT
	WIRING DIAGRAM - AET 3-LANE LAYOUT
	LOOP PLAN - AET 1-LANE LAYOUT
	LOOP PLAN - AET 3-LANE LAYOUT
	VES WASH SYSTEM ENCLOSURE DETAIL
	VES WASH SYSTEM PANEL DETAIL
	VES WASH SYSTEM FANDE DETAIL VES WASH SYSTEM FLOW DIAGRAM AND MECHANICAL DETAIL
	VES WASH SYSTEM FLOW DIAGRAM AND MECHANICAL DETAIL VES WASH SYSTEM SUGGESTED CONDUIT ROUTING
マーレしい・ノンンへ	IAFO ANY OLLO LOLI FINI OCCOPOLO LED COMPOLL MODILIMO
	VES WASH SYSTEM MISCELLANEOUS POWER WIRING DIAGRAM







TEMPORARY PIPE SLOPE DRAIN

NOTES:

- 1. ALL TEMPORARY PIPE SLOPE DRAINS TO DISCHARGE INTO THE BACK OF SEDIMENT TRAPS, INTO SEDIMENT BASINS OR DITCHES DISCHARGING INTO TRAPS OR BASINS.
- 2. GEOTEXTILE SHALL BE PLACED AROUND THE FLARE END SECTION.
- AN EROSION CONTROL BLANKET TO BE INSTALLED AT THE FLARE END SECTION EXTENDING ALONG THE TEMPORARY FLOW LINE.
- 4. TEMPORARY PIPE SLOPE DRAINS WILL BE SIZED AND SPACED ALONG THE FILL TO ADEQUATELY HANDLE THE RUNOFF FROM THE CONTRIBUTING AREA. A MINIMUM TWO TEMPORARY PIPE SLOPE DRAINS WILL BE PLACED IN EVERY SAG.
- THE PIPE SHALL BE INSTALLED WITH WATER-TIGHT CONNECTING BANDS AND SHALL BE SECURELY ANCHORED BY HOLD DOWN STAKES AND CABLES.
- STAPLES SHALL BE USED TO ANCHOR GEOTEXTILE AND EROSION CONTROL BLANKET IN CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.
- THE OUTLET RIPRAP APRON PROTECTION SHALL BE BASED ON THE PIPE DIAMETER AND DISCHARGE VELOCITY OF STORMWATER FLOWS.
- REFERENCE DESIGN CRITERIA: ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN ON THIS SHEET, DESIGN VALUES SHALL BE INSERTED INTO THE TABLE.

DESIGN ELEMENTS		VALUES
DRAINAGE AREA/SLOPE DRAIN	X (ACRES)	
PIPE SLOPE DRAIN DIAMETER	A (INCHES)	
PIPE SLOPE DRAIN SPACING	S (FEET)	
BERM AT INLET TOP WIDTH	B (FEET)	
BERM AT INLET HEIGHT	C (FEET)	
OUTLET APRON WIDTH	D (FEET)	
OUTLET APRON LENGTH	E (FEET)	
OUTLET APRON DEPTH	F (FEET)	
OUTLET APRON RIPRAP	GRADATION	
EROSION CONTROL BLANKET LENGTH	G (FEET)	
EROSION CONTROL BLANKET WIDTH	H (FEET)	

NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL NEW 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

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STANDARD SYMBOL

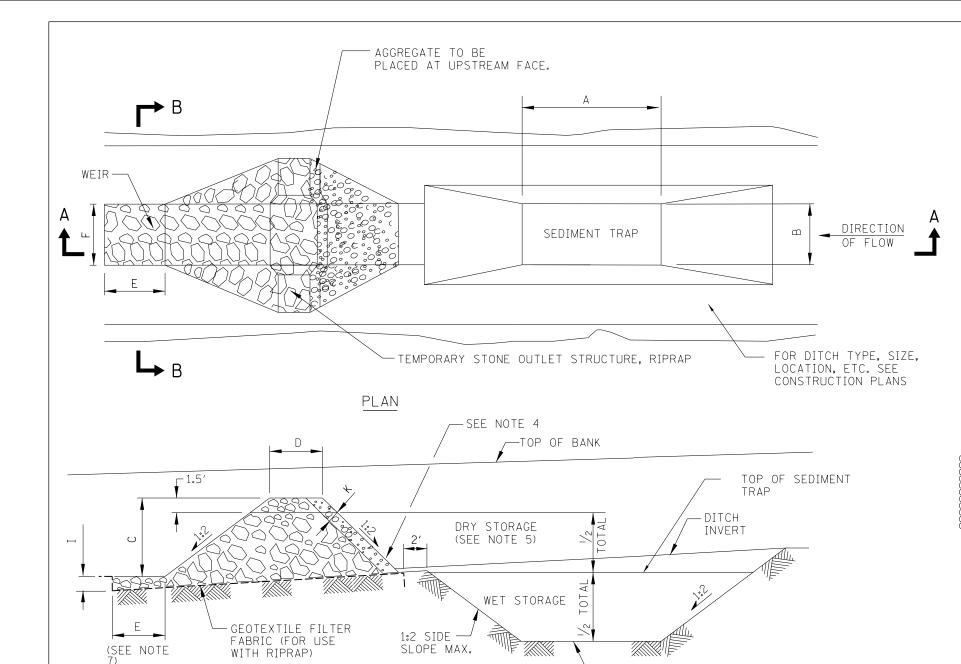




M-ESC-200

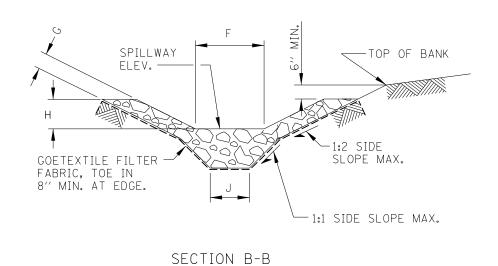
TEMPORARY PIPE SLOPE DRAIN

DATE 2-7-2012



LEVEL

BOTTOM



SECTION A-A

NOTES:

- 1. STONE OUTLET STRUCTURES TO BE USED IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES.
- THE STONE OUTLET STRUCTURES SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED OUT WHEN WET STORAGE PORTION OF TRAP IS 50% FULL.
- 3. A LAYER OF AGGREGATE SHALL BE PLACED AGAINST THE UPSTREAM FACE OF THE TEMPORARY STONE OUTLET STRUCTURE.
- 4. THE DETENTION STORAGE SHALL BE COMPOSED OF EQUAL VOLUMES OF "WET" AND "DRY" STORAGE AREAS. HALF THE DETENTION STORAGE SHALL BE BELOW THE PERMEABLE FILL.
- 5. THE MINIMUM LENGTH TO WIDTH RATIO OF SEDIMENT TRAP SHALL BE 2:1.
- THE SPILLWAY WEIR SHALL BE DETERMINED BY THE DRAINAGE RUNOFF FROM THE CONTRIBUTING AREA.
- 7. REFERENCE DESIGN CRITERIA: ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL
- 8. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE INSERTED INTO THE TABLE.

DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	
SEDIMENT TRAP: STORAGE CAPACITY	V (CU. YD.)	
WET DETENTION STORAGE	√ ₂ V (CU. YD.)	
DRY DETENTION STORAGE	√ ₂ V (CU. YD.)	
SEDIMENT TRAP LENGTH	A (FEET)	
SEDIMENT TRAP WIDTH	B (FEET)	
STONE OUTLET STRUCTURE HEIGHT	C (FEET)	
STONE OUTLET STRUCTURE TOP WIDTH	D (FEET)	
WEIR LENGTH	E (FEET)	
WEIR TOP WIDTH	F (FEET)	
WEIR SIDE SLOPE THICKNESS	G (FEET)	
WEIR SIDE SLOPE HEIGHT	H (FEET)	
WEIR DEPTH	I (FEET)	
WEIR BASE WIDTH	J (FEET)	
RIPRAP	GRADATION	
AGGREGATE	GRADATION	-
STONE OUTLET AGGREGATE THICKNESS	K (FEET)	

NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL NEW 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

STANDARD SYMBOL

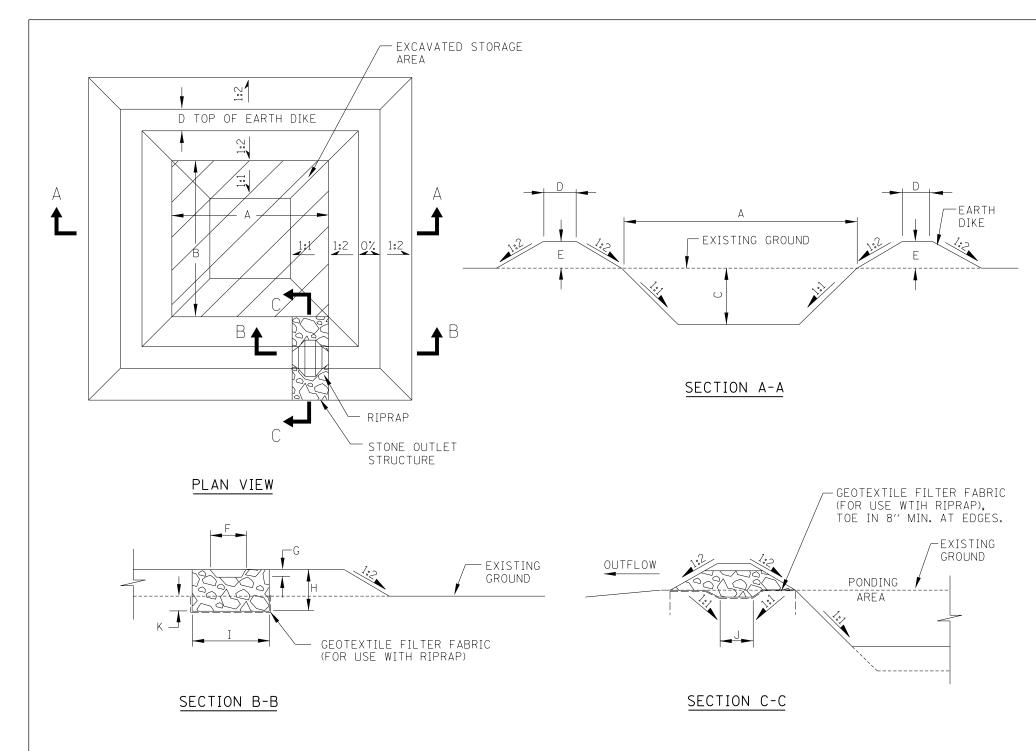




Tollway

STONE OUTLET STRUCTURE SEDIMENT TRAP

DATE



NOTES:

- 1. ANY DEWATERING OF THE CONSTRUCTION AREA SHALL BE FILTERED THROUGH A DEWATERING BASIN PRIOR TO ENTERING RECEIVING
- 2. PUMPING INTO THESE BASINS SHALL CEASE WHEN THE EFFLUENT FROM THE BASIN BECOMES SEDIMENT LADEN. SURFACE FLOWS SHALL BE DIVERTED AROUND THIS DEVICE.
- 3. ONCE THE DEWATERING BASIN BECOMES FILLED TO $\frac{1}{2}$ OF THE EXCAVATED DEPTH, ACCUMULATED SEDIMENT SHALL BE REMOVED.
- 4. THE OUTFALL FROM THE BASIN(S) SHALL HAVE A STABILIZED CONVEYANCE TO RECEIVING WATERS.
- 5. REFERENCE DESIGN CRITERIA: ILLINOIS URBAN MAUNAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL.
- 6. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT
CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE
INSERTED INTO THE TABLE.

DESIGN ELEMENTS		VALUES
STORAGE CAPACITY	V (CU. YD.)	
BASIN TOP WIDTH	A (FEET)	
BASIN TOP LENGTH	B (FEET)	
BASIN DEPTH	C (FEET)	
EARTH DIKE TOP WIDTH	D (FEET)	
EARTH DIKE HEIGHT	E (FEET)	
STONE OUTLET STRUCTURE RIPRAP	GRADATION	
STONE OUTLET SPILLWAY TOP WIDTH	F (FEET)	
STONE OUTLET SPILLWAY DEPTH	G (FEET)	
STONE OUTLET STRUCTURE HEIGHT	H (FEET)	
STONE OUTLET BASE WIDTH	I (FEET)	
STONE OUTLET BASE LENGTH	J (FEET)	
STONE OUTLET BASE DEPTH	K (FEET)	

DB

STANDARD SYMBOL

NOTE TO DESIGNER

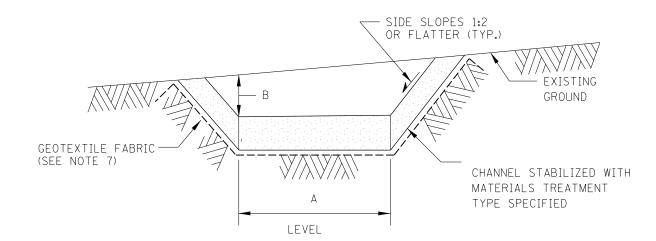
THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF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

M-ESC-202



DEWATERING BASIN

DATE



CROSS-SECTION

NOTES:

- 1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- 5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS-SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- 6. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE, SHALL BE STABILIZED.
- 7. CHANNEL STABILIZATION TYPE TO BE DETERMINED BY CHANNEL GRADE (%) AND DRAINAGE AREA INTO THE TEMPORARY SWALE.
- WIDTH OF FLOW CHANNEL TO BE SIZED FOR DRAINAGE AREA INTO THE TEMPORARY SWALE.
- REFERENCE DESIGN CRITERIA: ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL.
- 10. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT
CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE
INSERTED INTO THE TABLE.

DESIGN ELEMENTS	DATA	VALUES
DRAINAGE AREA	X (ACRES)	
FLOW CHANNEL WIDTH	A (FEET)	
FLOW CHANNEL DEPTH	B (FEET)	
CHANNEL GRADE	%	
CHANNEL STABILIZATION	TREATMENT TYPE	

NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL NEW 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

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STANDARD SYMBOL

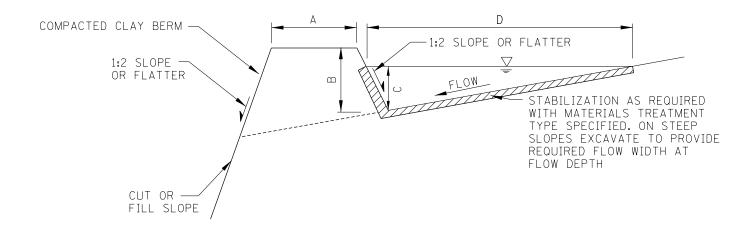
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M-ESC-203



TEMPORARY SWALE

DATE



CROSS-SECTION

NOTES:

- 1. ALL DIKES SHALL BE COMPACTED.
- 2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- 4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- STABILIZATION OF FLOW AREA ALONG DIVERSION DIKE TO BE DETERMINED BY CHANNEL GRADE (%) AND DRAINAGE AREA INTO DIVERSION DIKE.
- DIVERSION DIKE AND EMBANKMENT FLOW STABILIZATION DIMENSION TO BE SIZED FOR DRAINAGE AREA INTO DIVERSION DIKE.
- REFERENCE DESIGN CRITERIA: ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL.
- 10. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT
CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL
BE INSERTED INTO THE TABLE.

DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	
WIDTH OF DIKE	A (FEET)	
HEIGHT OF DIKE	B (FEET)	
CHANNEL FLOW HEIGHT	C (FEET)	
CHANNEL FLOW WIDTH	D (FEET)	
CHANNEL GRADE	%	
CHANNEL STABILIZATION	TREATMENT TYPE	

STANDARD SYMBOL

NOTE TO DESIGNER

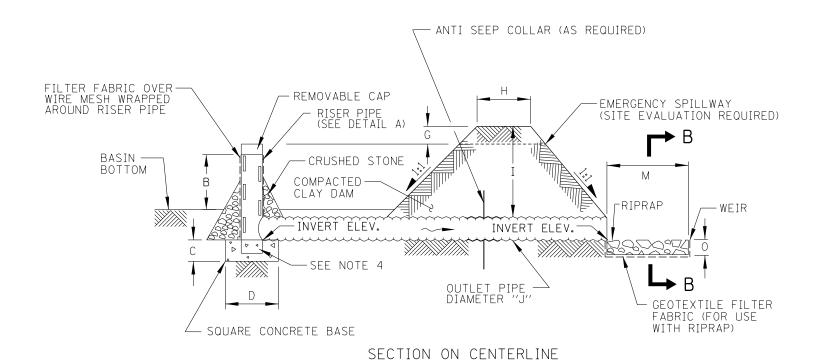
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M-ESC-204

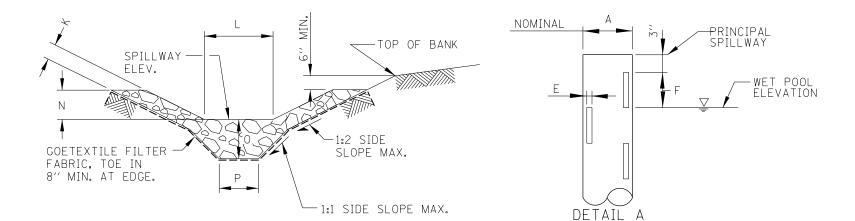


DIVERSION DIKE

DATE 2-7-2012



SECTION B-B



RISER PIPE-SLOTTED INLET

NOTES:

- OUTLET PIPE AND SLOTTED RISER SHALL BE FABRICATED FROM CORRUGATED METAL, SMOOTH STEEL OR PVC.
- SLOTS SHALL BE CUT CLEANLY AND DEBURRED. ENDS OF SLOTS MAY BE ROUND OR SQUARE.
- 3. ROWS OF VERTICAL SLOTS TO BE CENTERED AND PLACED BASED ON RISER DIAMETER.
- FABRICATED OR STANDARD ELBOW; FABRICATED OR STANDARD TEE WITH THE PIPE OR PLUG IN UPSTREAM END; OR STANDARD TEE WITH ONE END EMBEDDED IN CONCRETE.
- THE RISER PIPE AND DRAIN PIPE TO BE SIZED TO CARRY THE PEAK IN FLOW PER DESIGN STORM CRITERIA.
- HOLES MAY BE SUBSTITUTED FOR SLOTS IN RISER PIPE. PROVIDE THE REQUIRED NUMBER OF HOLES PER FOOT OF RISER ARE FOR SPECIFIED DIAMETER OF RISER PIPE.
- 7. AN ALTERNATE TO THE PERFORATED RISER PIPE IS A SKIMMER DEVICE.
- SEDIMENT TO BE REMOVED WHEN BASIN IS 50% FULL.
- 9. FILTER FABRIC OVER WIRE MESH SHALL BE WRAPPED AROUND THE RISER STAND PIPE.
- REFERENCE DESIGN CRITERIA: ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE INSERTED INTO THE TABLE. THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE INSERTED

DESIGN ELEMENTS		VALUES
STORAGE VOLUME	V (CU. YD.)	
CLAY DAM TOP WIDTH	H (FEET)	
CLAY DAM HEIGHT	I (FEET)	
INLET CAPACITY OF RISER PIPE	Q (CU. FT./SEC.)	
VERTICAL RISER PIPE DIAMETER	A (FEET)	
VERTICAL RISER PIPE HEIGHT	B (FEET)	
RISER CONCRETE BASE DEPTH	C (FEET)	
RISER CONCRETE WIDTH/LENGTH	D (FEET)	
SLOTTED INLETS	X (NUMBER)	
SLOTTED INLET WIDTH	E (INCHES)	
SLOTTED INLET LENGTH	F (FEET)	
HORIZONTAL OUTLET PIPE DIAMETER	J (FEET)	
ANTI SEEP COLLAR PIPE DIAMETER	R (FEET)	
FREEBOARD HEIGHT	G (FEET)	
CRUSHED STONE	GRADATION	
WEIR LENGTH	M (FEET)	
WEIR TOP WIDTH	L (FEET)	
WEIR SIDE SLOPE THICKNESS	K (FEET)	
WEIR SIDE SLOPE HEIGHT	N (FEET)	
WEIR DEPTH	O (FEET)	
WEIR BASE WIDTH	P (FEET)	
RIPRAP	GRADATION	

NOTE TO DESIGNER

NOTE TO DESIGNER

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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 "MOTE TO DESIGNER" BOXES SHALL BE REMOVED PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

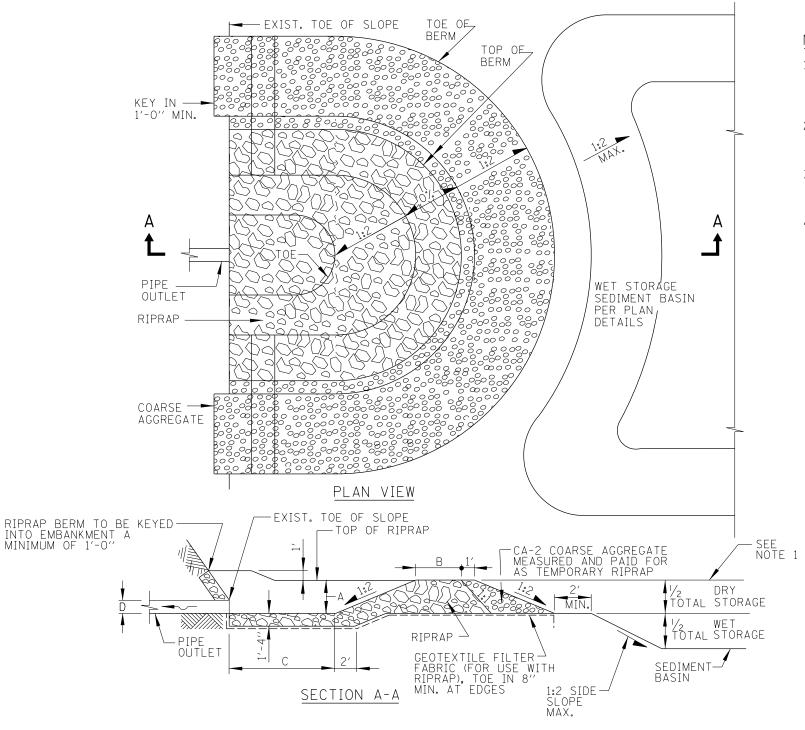
M-ESC-205



SEDIMENT BASIN DEWATERING DEVICE

DATE

3-31-2016



NOTES:

- 1. WHEN SEDIMENT BASIN AGGREGATE BERM IS USED FOR OUTLET CONTROL. THE DETENTION STORAGE SHALL BE COMPOSED OF EQUAL VOLUMES OF "WET" AND "DRY" STORAGE AREAS. HALF THE DETENTION STORAGE SHALL BE BELOW THE PERMEABLE FILL. DRAINAGE AREA INCLUDES BOTH ON-SITE AND OFF-SITE TRIBUTARY AREAS.
- 2. TO MINIMIZE EXCAVATION, THE BOTTOM OF THE WET STORAGE BASIN MAY BE DESIGNED AT THE PIPE OUTLET INVERT ELEVATION. PROVIDE COMPACTED CLAY DAM BELOW AGGREGATE
- 3. MAINTENANCE SHALL BE PERFORMED AS NEEDED. THE AGGREGATE BERM SHALL BE REPLACED IF WASHED OUT, DAMAGED BY CONSTRUCTION OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED OUT WHEN THE WET STORAGE POOL PORTION OF BASIN IS 50% FULL.
- 4. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

NOTE:

THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT
CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE
INSERTED INTO THE TABLE.

DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	
SEDIMENT BASIN: STORAGE CAPACITY	V (CU. YD.)	
WET DETENTION STORAGE	$\frac{1}{2}V$ (CU. YD.)	
DRY DETENTION STORAGE	1/2V (CU. YD.)	
AGGREGATE BERM HEIGHT	A (FEET)	
AGGREGATE BERM TOP WIDTH	B (FEET)	
OUTLET WEIR LENGTH	C (FEET)	
OUTLET PIPE DIAMETER	D (FEET)	
RIPRAP	GRADATION	
COURSE AGGREGATE	GRADATION	

STANDARD SYMBOL

THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REDUIRES 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. NOTE TO DESIGNER

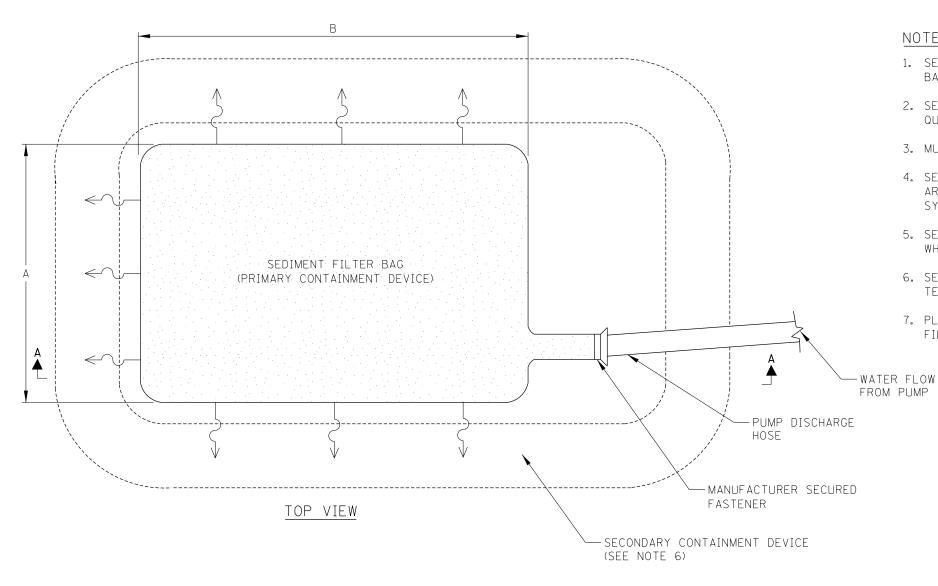
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M-ESC-206



SEDIMENT BASIN AGGREGATE BERM

DATE



SIDE VIEW SECTION A-A

NOTES:

- 1. SEDIMENT FILTER BAGS TO BE CONSIDERED AN ALTERNATE FOR SITES WHERE SEDIMENT BASIN INSTALLATION IS PROBLEMATIC.
- 2. SEDIMENT FILTER BAGS TO BE SIZED BASED ON VOLUME OF WATER BEING PUMPED. QUANTITY AND TYPE OF SEDIMENT AND THE PERMITIVITY OF THE SPECIFIC BAG SIZE.
- 3. MULTIPLE DISCHARGES INTO A SINGLE BAG ARE NOT PERMITTED.
- 4. SEDIMENT FILTER BAG SHALL BE ORIENTATED TO DIRECT FLOW AWAY FROM CONSTRUCTION AREA AND DISCHARGE FILTERED WATER INTO APPROVED RECEIVING AREA OR CONTAINMENT SYSTEM.
- 5. SEDIMENT FILTER BAG SHALL BE REPLACED WHEN IT BECOMES $\frac{1}{2}$ FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED DISCHARGE FLOW RATE BELOW DESIGN REQUIREMENTS.
- 6. SECONDARY CONTAINMENT DEVICE SHALL BE COMPRISED OF AGGREGATE MATERIAL. TEMPORARY DITCH CHECK OR EQUIVALENT.
- 7. PLACE STRAPS, CROSS CHAINS, PALLETS OR OTHER LIFTING DEVICE UNDER THE SEDIMENT FILTER BAG WHEN REPLACEMENT IS ANTICIPATED.

NOTE:
THE DESIGNER SHALL DESIGN THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN ON THIS SHEET. DESIGN VALUES SHALL BE INSERTED INTO THE TABLE.

DESIGN ELEMENTS		VALUES
STORAGE CAPACITY VOLUME	V (CU. FT.)	
SEDIMENT FILTER BAG WIDTH	A (FEET)	
SEDIMENT FILTER BAG LENGTH	B (FEET)	
PUMP FLOW RATE	X1 (GPM)	
SEDIMENT FILTER BY FLOW RATE	X2 (GPM/SQ. FT.)	
PUMP DISCHARGE HOSE DIAMETER	D (INCH)	
AGGREGATE PAD	GRADATION	
AGGREGATE PAD DEPTH	C (INCH)	
STRAW UNDERLAYMENT DEPTH	C (INCH)	

SECONDARY SEDIMENT FILTER BAG CONTAINMENT DEVICE AGGREGATE PAD, STRAW UNDERLAYMENT OR ESTABLISHED VEGETATION -LEVELING PAD W/ AGGREGATE

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M-ESC-207



TEMPORARY SEDIMENT FILTER BAG

DATE 2-7-2012