WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING



DOGSTREET ROAD W-5932 CULVERT REPLACEMENT

PROJECT NO. 14-220 CONTRACT NO. BR-DS-220-14

DESIGNED IN ACCORDANCE W	FOR SOIL EROSION AND SEDIMENT CONTROL HAS I /ITH LOCAL ORDINANCES, COMAR 26.17.01.07, AND I IONS FOR SOIL EROSION AND SEDIMENT CONTROL.	MARYLAND
Scott Hobbs	31179 REGISTRATION NUMBER	5/5/23 DATE
SEAL:		
	OF MARINE STEP STEP STEP STEP STEP STEP STEP STE	

ENGINEER / ARCHITECT DESIGN CERTIFICATION

ICENSE No. 31179	EXPIRATION DATE:	1/19/25	
·			_

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE

OWNER / DEVELOPER CERTIFICATION	
WE CERTIFY ALL / ANY PARTIES RESPONSIBLE FOR CLEARING, GRADING, CONSTRUCTION, ANI DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND RESPONSIBLE PERSONNEL INVO CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMI ENVIROMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDI	LVED IN THE ENT OF THE

Scott Holls	5/5/23
OTT HOBBS, P.E.	DATE
RECTOR OF ENGINEERING	
R WASHINGTON COUNTY, MD	

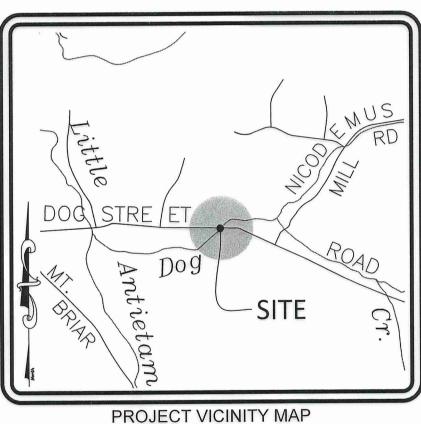
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APPROVED FOR CONSTRUCTION	
SCOTT HOBBS, P.E. DIRECTOR OF ENGINEERING FOR WASHINGTON COUNTY, MD	5/5/23 DATE

THE WAIVER OF STORMWATER MANAGEMENT HAS BEE	N GRANTED FOR THIS PROJECT.
SCOTT HOBBS, P.E. DIRECTOR OF ENGINEERING FOR WASHINGTON COUNTY, MD	5/5/23 DATE

	WASHINGTON COUNTY SOIL CONSERVATION DISTRICT
1	SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL
115	
	BY.
1	DATE:
	(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

OWNER/DEVELOPER:

BOARD OF COUNTY COMMISSIONERS FOR WASHINGTON COUNTY, MD AGENT: SCOTT HOBBS, P.E. DIRECTOR OF ENGINEERING 747 NORTHERN AVENUE HAGERSTOWN, MARYLAND 21742 PHONE: 240-313-2460 FAX: 240-313-2401



SCALE: 1" = 2,000'

BOARD OF COUNTY COMMISSIONERS:

John F. Barr, President Jeffrey A. Cline, Vice President Derek Harvey Wayne K. Keefer Randall E. Wagner

JOHN M. MARTIRANO, COUNTY ADMINISTRATOR SCOTT HOBBS, P.E., DIRECTOR OF ENGINEERING

DISTURBED AREA QUANTITY

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 0.78 ACRES AND THE TOTAL AMOUNT OF EXCAVATION AND FILL SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 1500 ___ CU. YDS. OF EXCAVATION AND APPROXIMATELY ____ 110 __ CU. YDS. OF FILL.

SHEET INDEX

COVER SHEET PLAN AND PROFILE SHEET 2 SHEET 3 TYPICAL SECTIONS

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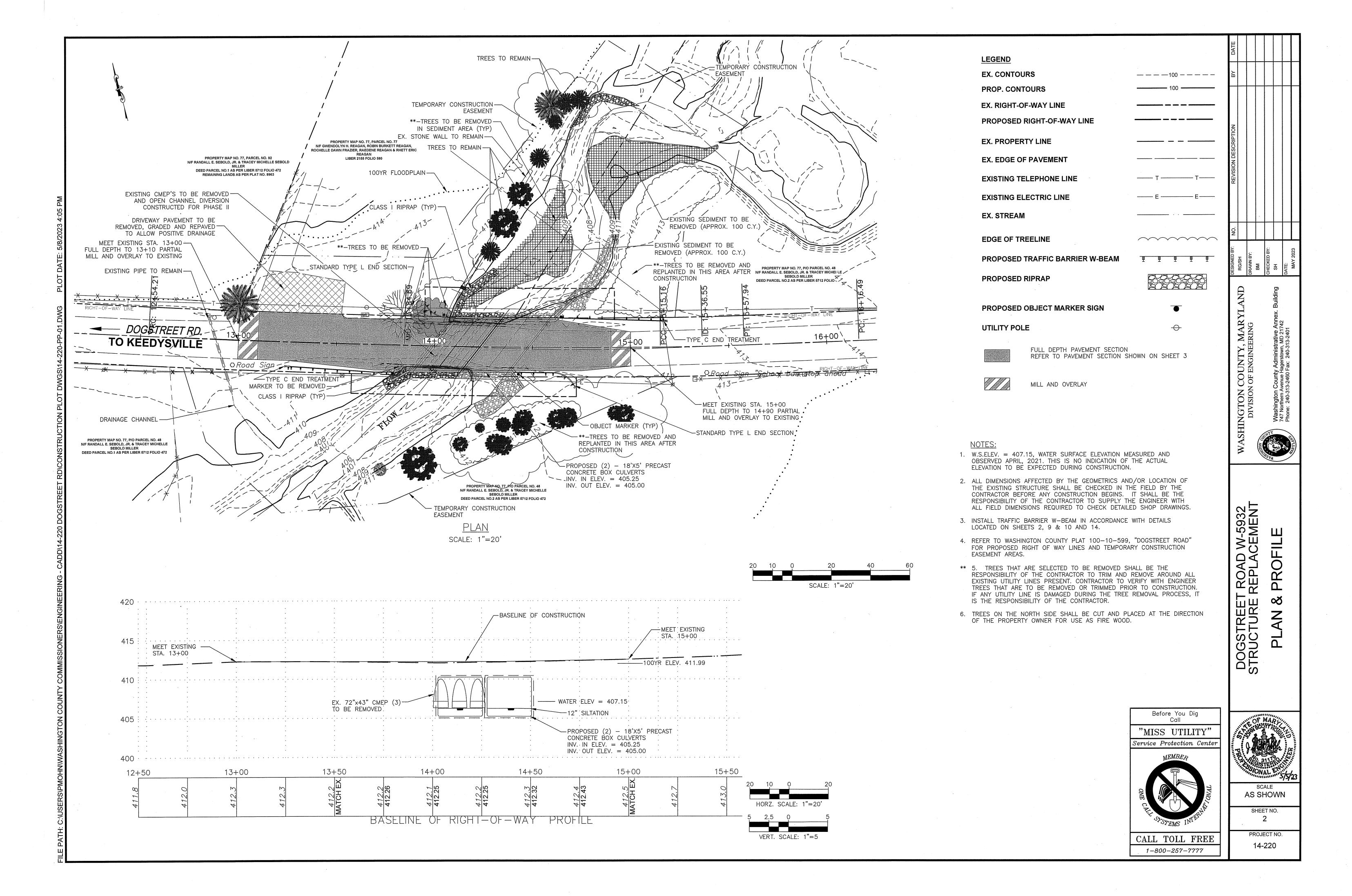
GEOMETRIC LAYOUT SHEET 8

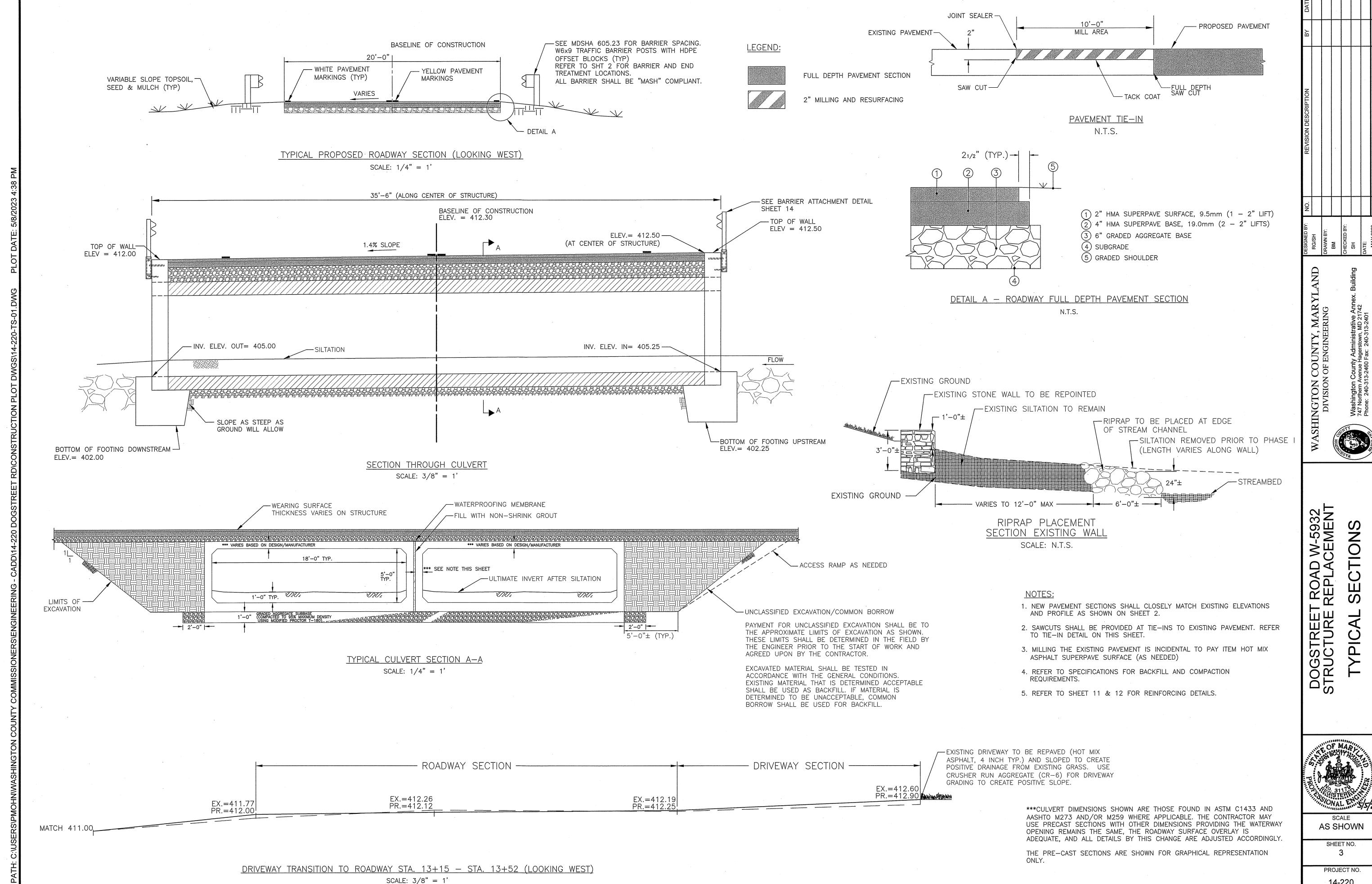
PLAN AND ELEVATION ENDWALLS - UPSTREAM SHEET 9 PLAN AND ELEVATION ENDWALLS - DOWNSTREAM SHEET 10

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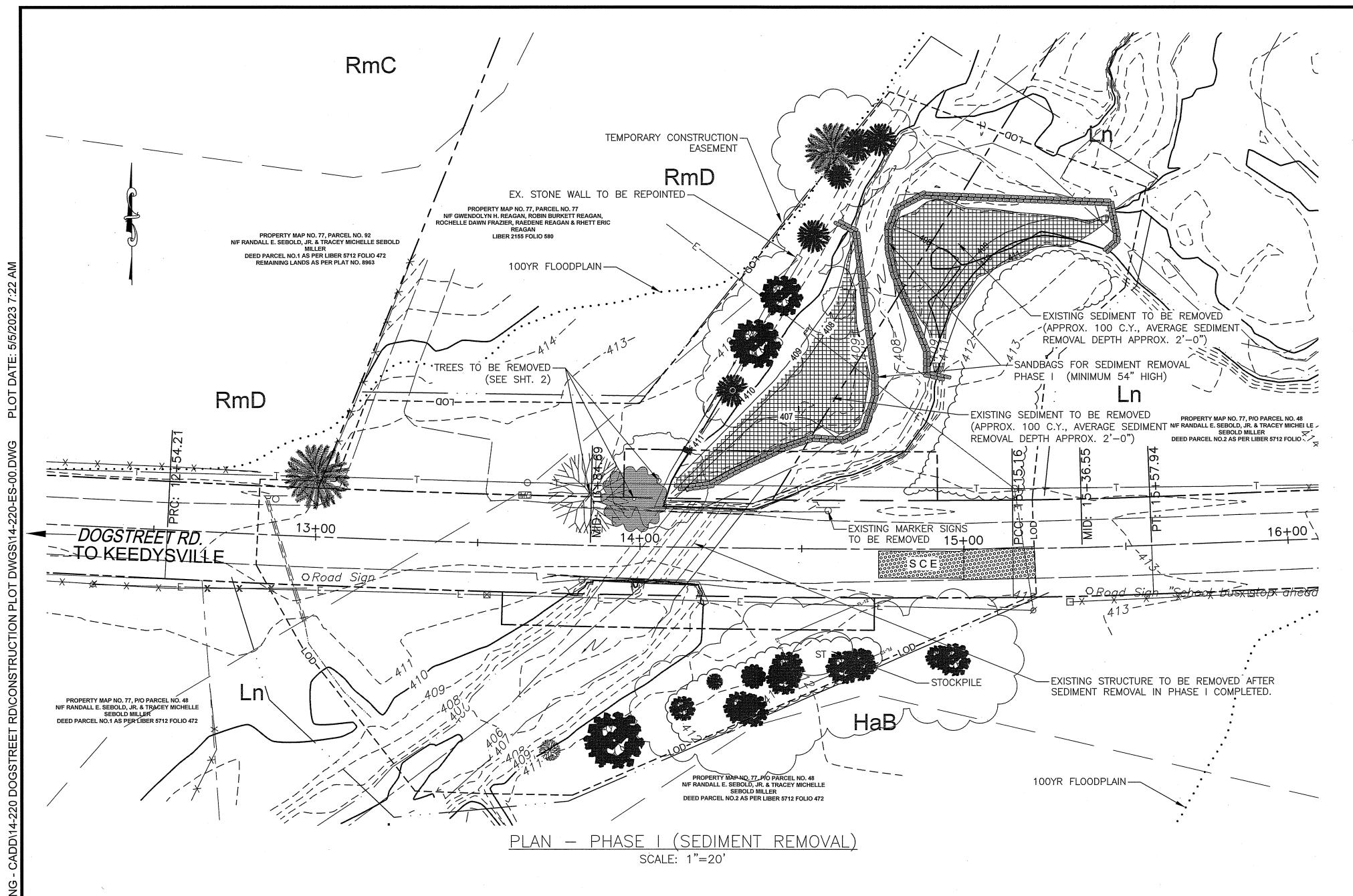
QUANTITIES & DETAILS SHEET 15





ONAL ELL 5/5/2

14-220



STANDARD UTILITY NOTES

- 1. CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
- 2. CONTRACTOR TO PLACE EXCAVATED MATERIALS IN A DUMP TRUCK AND HAULED TO AN APPROVED LOCATION TO WASTED MATERIALS TO PAVED AREAS.
- 3. CONTRACTOR TO BACKFILL TRENCH WITH APPROVED MATERIALS AND STABILIZE DISTURBED AREAS THE SAME WORKING DAY.
- 4. IN AREAS WHERE THE CONSTRUCTION TAKES TO PLACE OUTSIDE OF THE EXISTING ROADBED, CONTRACTOR TO INSTALL SILT FENCE ALONG THE DOWNHILL SIDE OF THE TRENCH BEFORE BEGINNING CONSTRUCTION AND PLACE EXCAVATED MATERIAL FROM THE TRENCH ON THE UPHILL SIDE.
- 5. IF DEWATERING OF THE TRENCH IS REQUIRED, CONTRACTOR TO PUMP WATER TO A FILTER BAG TO DEWATER.
- 6. CONTRACTOR TO SWEEP STREETS OF ANY DEBRIS OR SEDIMENTS CAUSED BY CONSTRUCTION OPERATIONS AND DISPOSE OF AT AN APPROVED LOCATION.
- 7. CONTRACTOR TO STABILIZE ALL DISTURBED AREAS WITH SEED & MULCH OR APPROPRIATE STREET REPAIR.

LEGEND

FILTER LOG

LIMITS OF DISTURBANCE

EDGE OF TREELINE

SOIL/ MATERIAL STOCKPILE

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ST

SOILS DESCRIPTIONS

STABILIZED CONSTRUCTION ENTRANCE

Ln HaB RmD

SANDBAGS

LINDSLIDE SILT LOAM
HAGERSTOWN SILT LOAM, 3-8% SLOPES
RYDER-DUFFIELD CHANNERY SILT LOAMS, 15-25% SLOPES

SEQUENCE OF CONSTRUCTION

- 1. THE TRIBUTARY OF DOG CREEK IS A CLASS IV-P STREAM WITH INSTREAM WORK PROHIBITED DURING THE CLOSURE PERIOD OF MARCH 1 THROUGH MAY 31. THE ENTIRE LIMITS OF DISTURBANCE (LOD) FOR THE PROJECT IS WITHIN THE 100YR FLOODPLAIN. MDE HAS ISSUED A JOINT WATER WAY PERMIT AUTHORIZATION #22-NT-3047/202260328.
- 2. NOTIFY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT 301-797-6821, EXT. 3, THE MARYLAND DEPARTMENT OF ENVIRONMENT (MDE INSPECTOR) AT 443-835-9397, AND THE WASHINGTON COUNTY DIVISION OF ENGINEERING AT 240-313-2460 AT LEAST FIVE (5) DAYS BEFORE CONSTRUCTION BEGINS TO SCHEDULE A PRE-CONSTRUCTION MEETING. A COPY OF THE CONTRACTOR'S SCHEDULE SHALL BE PROVIDED TO WASHINGTON COUNTY AND MDE PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR IS TO NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 4. INSTALL TRAFFIC CONTROL FOR FULL ROAD CLOSURE AND STABILIZED CONSTRUCTION ENTRANCE.
- 5. TRIM AND REMOVE TREES WITHIN THE LOD ONLY AS NECESSARY FOR COMPLETION OF THE WORK. REMOVE TREES WITHIN THE SEDIMENT AREA DESIGNATED TO BE REMOVED. (SEE NOTE ON SHEET 2 FOR TREE REMOVAL AND TRIMMING) INSTALL FILTER LOG, CLEAR AND GRUB ONLY THOSE AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL TEMPORARY STOCKPILE FOR EQUIPMENT ONLY IN THE AREA AS SHOWN, WITH FILTER LOG ALONG THE DOWNSTREAM SIDE OF THE PILE. ALL STREAMBED MATERIAL IS TO BE REMOVED FROM THE SITE. ALL FILL MUST COME FROM OR GO TO A SITE THAT HAS A CURRENT, APPROVED SOIL, EROSION AND SEDIMENT CONTROL PLAN.
- 6. AREAS OF SEDIMENT SHOWN IN PHASE I TO BE REMOVED BEFORE CONSTRUCTION OF PHASE II BEGINS. SANDBAGS SHALL BE PLACED AS SHOWN WITH MINIMUM HEIGHT REQUIREMENTS (54") TO MEET THE 2—YEAR STORM FOR OVER TOPPING AND AS DIRECTED BY THE ENGINEER. SEDIMENT SHALL BE REMOVED IN AREAS SHOWN DURING DRY CONDITIONS (PUMPS MAY BE NEEDED) USING SOIL AND EROSION BEST PRACTICES. THE AREA SHALL BE GRADED AND STABILIZED PRIOR TO PHASE II WORK. SANDBAGS SHALL BE REMOVED AND PLACED FOR CONSTRUCTION OF PHASE II TO BEGIN.
- 7. THE EXISTING STRUCTURE WILL BE REMOVED COMPLETELY IN PHASE II AFTER SEDIMENT REMOVAL IS COMPLETED TO ALLOW WATER TO MOVE FREELY IN AN OPEN CHANNEL. PLACE SANDBAGS AS SHOWN ON PHASE II PLAN TO MEET THE REQUIREMENTS FOR THE 2—YEAR STORM AND AS DIRECTED BY THE ENGINEER. INSTALL TEMPORARY BARRIER DIVERSION, SUMP PIT AND DEWATERING BAG AS DIRECTED BY THE ENGINEER.
- 8. PHASE II REMOVE THE EXISTING ASPHALT WEARING SURFACE AND ENDWALLS ON THE EAST SIDE OF THE STRUCTURE. EXCAVATE AND GRADE FOR PLACEMENT OF BEDDING MATERIAL FOR THE CULVERTS AND WINGWALL FOOTINGS. CONSTRUCT CONCRETE FOOTINGS. SEE SHEETS 9 & 10 FOR PHASE II AND PHASE III CONCRETE PLACEMENT.
- 9. PLACE EAST SIDE CONCRETE PRECAST BOX CULVERT ON COMPACTED BEDDING MATERIAL. GRADED AGGREGATE SUBBASE IS TO BE COMPACTED TO 95% MAXIMUM DENSITY. CONSTRUCT ENDWALLS.
- 10. BACKFILL CONCRETE ENDWALLS AND BOX CULVERT. GRADE AND PLACE RIPRAP ALONG THE UPSTREAM AND DOWNSTREAM SIDE OF CULVERT AS SHOWN ON SHEET 5 AND RESTORE STREAMBANKS TO NATURAL CONDITIONS AS DIRECTED BY THE ENGINEER. STREAMBANK RESTORATION NEEDS TO BE COMPLETED WITH PERMANENT STABILIZATION PRIOR TO BEGINNING PHASE III.
- 11. PHASE III FOR WEST SIDE OF STRUCTURE, USE THE EAST SIDE BOX CULVERT FOR STREAM DIVERSION. REMOVE TEMPORARY BARRIER DIVERSION AND RESET SUMP PIT AND FILTER BAG. RESET SANDBAGS AS NEEDED TO DIRECT FLOW TO NEW BOX CULVERT.
- 12. EXCAVATE AND GRADE FOR PLACEMENT OF BEDDING MATERIALS FOR THE CULVERT AND WING WALL FOOTINGS. CONSTRUCT CONCRETE FOOTINGS AND SET WEST SIDE CONCRETE PRECAST BOX CULVERT CONSTRUCT REMAINING ENDWALLS.
- 13. BACKFILL ENDWALLS AND BOX CULVERT. GRADE AND PLACE RIPRAP ALONG UPSTREAM AND DOWNSTREAM AS SHOWN ON SHEET 6 AND RESTORE AND STABILIZE STREAMBANKS.
- 14. AFTER INSTALLATION OF WEST SIDE, AND AREA IS STABILIZED, REMOVE DIVERSION CHANNEL SANDBAGS, AND SUMP PIT. DIRECT STREAM THROUGH BOTH CONCRETE BOX CULVERTS. SAW CUT ROAD AND REMOVE PAVEMENT AS SPECIFIED. PLACE ROADWAY BASE, GRADED AGGREGATE, AND ASPHALT PAVEMENT.
- 15. FINE GRADE AND TOPSOIL ANY REMAINING DISTURBED AREAS AS DIRECTED BY THE ENGINEER. PLANT TREES AS DIRECTED BY THE ENGINEER. PROVIDE PERMANENT SEEDING.
- 16. SET TRAFFIC BARRIER.
- 17. NOTIFY WASHINGTON COUNTY DIVISION OF ENGINEERING, WASHINGTON COUNTY SOIL CONSERVATION DISTRICT, AND MARYLAND DEPARTMENT OF ENVIRONMENT INSPECTOR FIVE DAYS PRIOR TO FINAL INSPECTION AND AFTER VEGETATION STABILIZATION HAS ACHIEVED 95% COVERAGE. REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER FINAL APPROVAL FROM THE SOIL CONSERVATION DISTRICT.
- 18. REMOVE TRAFFIC CONTROL.

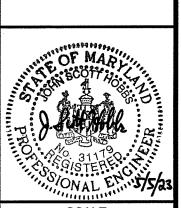
ON COUNTY, MARYLAND
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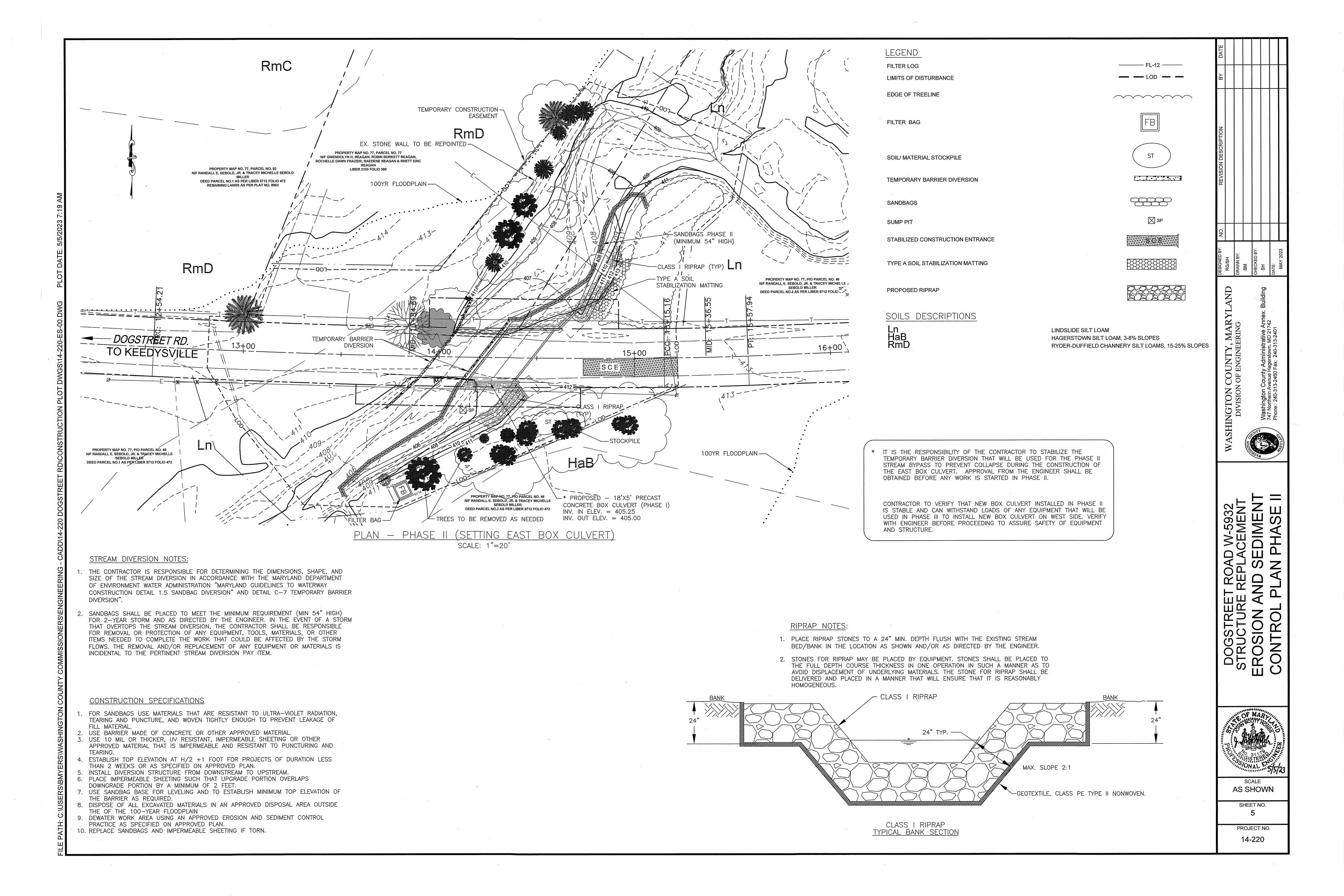
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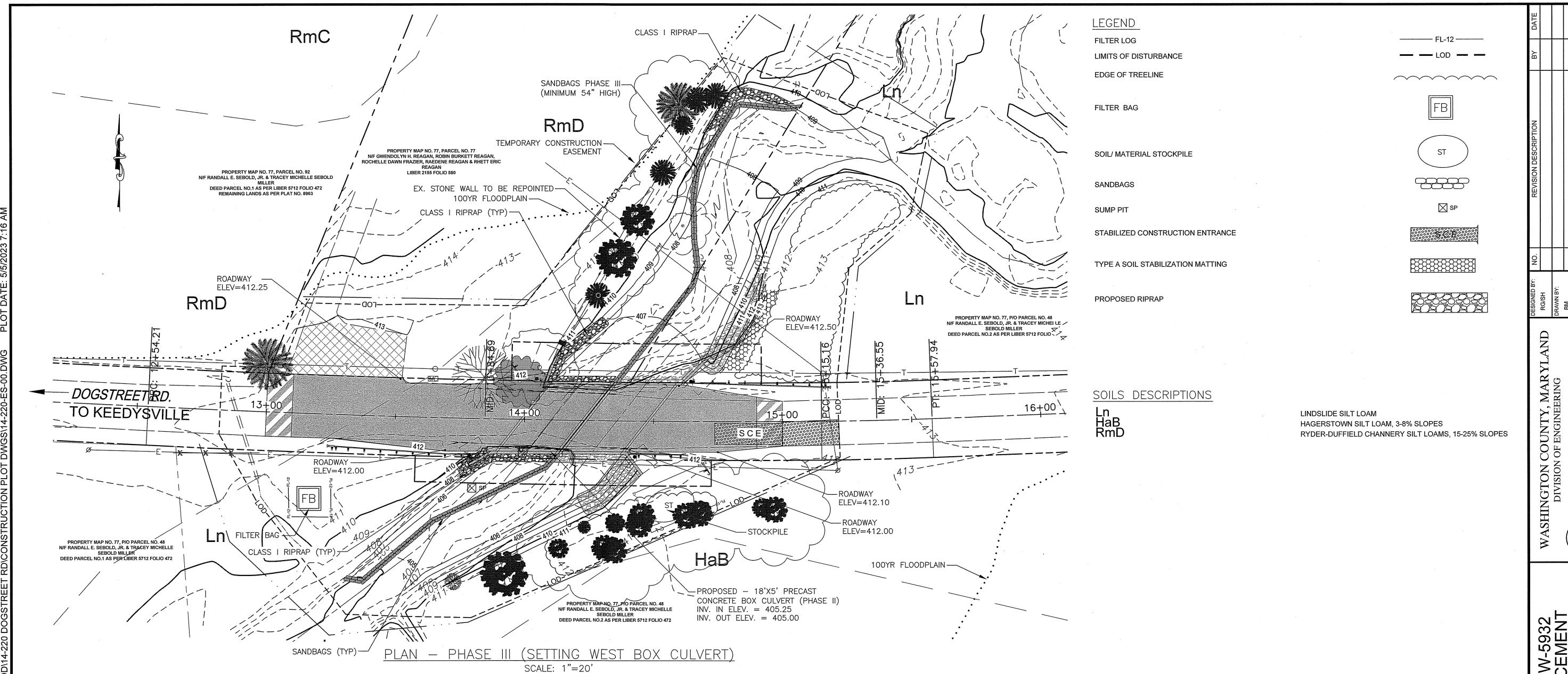
DOGSTREET ROAD W-5932 STRUCTURE REPLACEMENT EROSION AND SEDIMENT CONTROL PLAN PHASE I



SCALE AS SHOWN

SHEET NO.





STREAM DIVERSION NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE DIMENSIONS, SHAPE, AND SIZE OF THE STREAM DIVERSION IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF ENVIRONMENT WATER ADMINISTRATION "MARYLAND GUIDELINES TO WATERWAY CONSTRUCTION DETAIL 1.5 SANDBAG DIVERSION" AND DETAIL C-7 TEMPORARY BARRIER DIVERSION".
- 2. SANDBAGS SHALL BE PLACED TO MEET THE MINIMUM REQUIREMENT (MIN 54" HIGH) FOR 2—YEAR STORM AND AS DIRECTED BY THE ENGINEER. IN THE EVENT OF A STORM THAT OVERTOPS THE STREAM DIVERSION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OR PROTECTION OF ANY EQUIPMENT, TOOLS, MATERIALS, OR OTHER ITEMS NEEDED TO COMPLETE THE WORK THAT COULD BE AFFECTED BY THE STORM FLOWS. THE REMOVAL AND/OR REPLACEMENT OF ANY EQUIPMENT OR MATERIALS IS INCIDENTAL TO THE PERTINENT STREAM DIVERSION PAY ITEM.

CONSTRUCTION SPECIFICATIONS

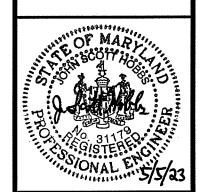
- 1. FOR SANDBAGS USE MATERIALS THAT ARE RESISTANT TO ULTRA—VIOLET RADIATION, TEARING AND PUNCTURE, AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL.
- USE BARRIER MADE OF CONCRETE OR OTHER APPROVED MATERIAL.
 USE 10 MIL OR THICKER, UV RESISTANT, IMPERMEABLE SHEETING OR OTHER APPROVED MATERIAL THAT IS IMPERMEABLE AND RESISTANT TO PUNCTURING AND
- 4. ESTABLISH TOP ELEVATION AT H/2 +1 FOOT FOR PROJECTS OF DURATION LESS THAN 2 WEEKS OR AS SPECIFIED ON APPROVED PLAN.
- 5. INSTALL DIVERSION STRUCTURE FROM DOWNSTREAM TO UPSTREAM.
- 6. PLACE IMPERMEABLE SHEETING SUCH THAT UPGRADE PORTION OVERLAPS DOWNGRADE PORTION BY A MINIMUM OF 2 FEET.
- 7. USE SANDBAG BASE FOR LEVELING AND TO ESTABLISH MINIMUM TOP ELEVATION OF THE BARRIER AS REQUIRED.
- THE BARRIER AS REQUIRED.

 8. DISPOSE OF ALL EXCAVATED MATERIALS IN AN APPROVED DISPOSAL AREA OUTSIDE
- THE OF THE 100-YEAR FLOODPLAIN

 9. DEWATER WORK AREA USING AN APPROVED EROSION AND SEDIMENT CONTROL
- PRACTICE AS SPECIFIED ON APPROVED PLAN.

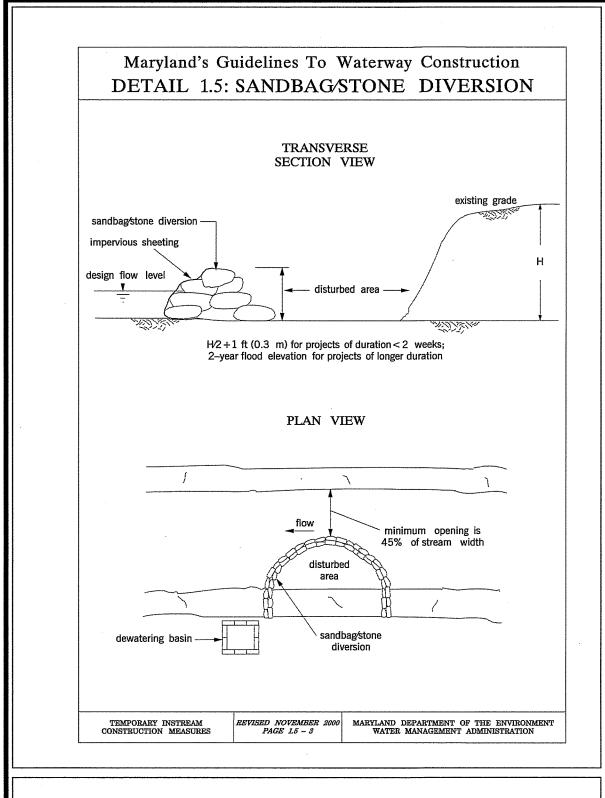
 10. REPLACE SANDBAGS AND IMPERMEABLE SHEETING IF TORN.

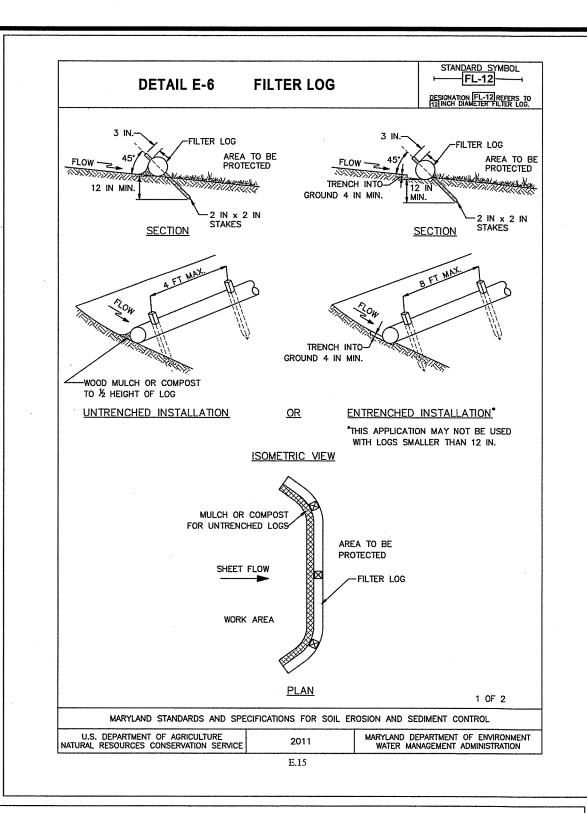
DOGSTREET ROAD W-5932 STRUCTURE REPLACEMENT EROSION AND SEDIMENT CONTROL PLAN PHASE III

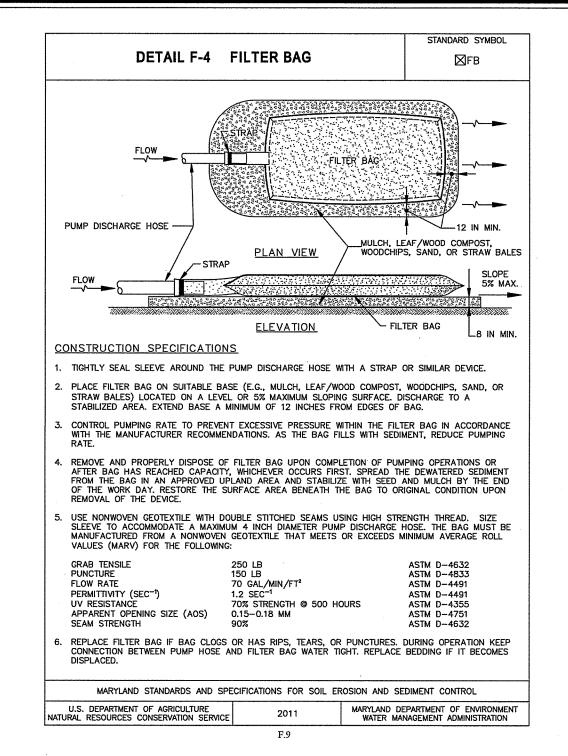


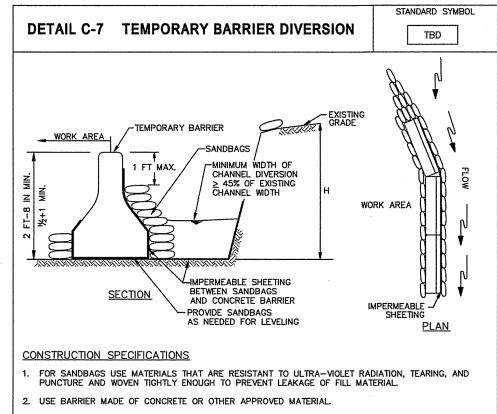
SCALE AS SHOWN

SHEET NO.









2. USE BARRIER MADE OF CONCRETE OR OTHER APPROVED MATERIAL.

3. USE 10 MIL OR THICKER, UV RESISTANT, IMPERMEABLE SHEETING OR OTHER APPROVED MATERIAL THAT IS IMPERMEABLE AND RESISTANT TO PUNCTURING AND TEARING.

 ESTABLISH TOP ELEVATION AT H/2 + 1 FOOT FOR PROJECTS OF DURATION LESS THAN 2 WEEKS OR AS SPECIFIED ON APPROVED PLAN.
 INSTALL DIVERSION STRUCTURE FROM UPGRADE TO DOWNGRADE.

PLACE IMPERMEABLE SHEETING SUCH THAT UPGRADE PORTION OVERLAPS DOWNGRADE PORTION BY A MINIMUM OF 18 INCHES.

 USE SANDBAG BASE FOR LEVELING AND TO ESTABLISH MINIMUM TOP ELEVATION OF THE BARRIER AS REQUIRED.

DISPOSE OF ALL EXCAVATED MATERIALS IN AN APPROVED DISPOSAL AREA OUTSIDE OF THE 100—YEAR FLOODPLAIN.

 DEWATER WORK AREA USING AN APPROVED EROSION AND SEDIMENT CONTROL PRACTICE AS SPECIFIED.

9. DEWATER WORK AREA USING AN APPROVED EROSION AND SEDIMENT CONTROL PRACTICE AS SPECIFIED ON APPROVED PLAN.

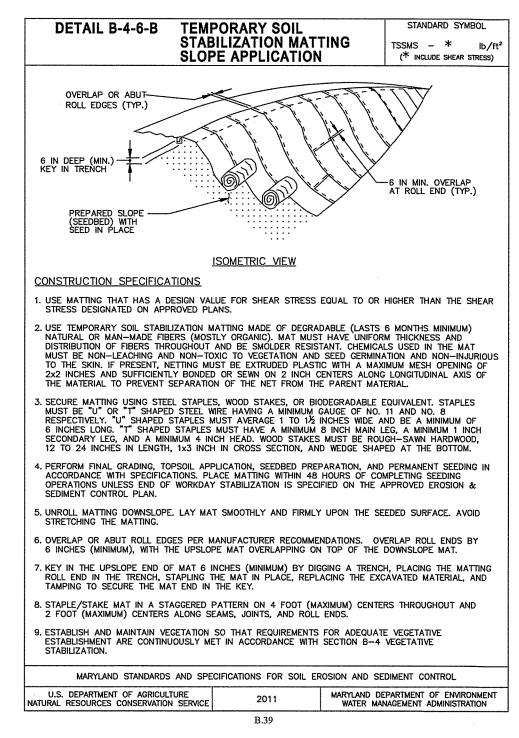
 KEEP ABUTMENTS BETWEEN CONCRETE BARRIERS WATER TIGHT, REPLACE SANDBAGS AND IMPERMEABLE SHEETING IF TORN.

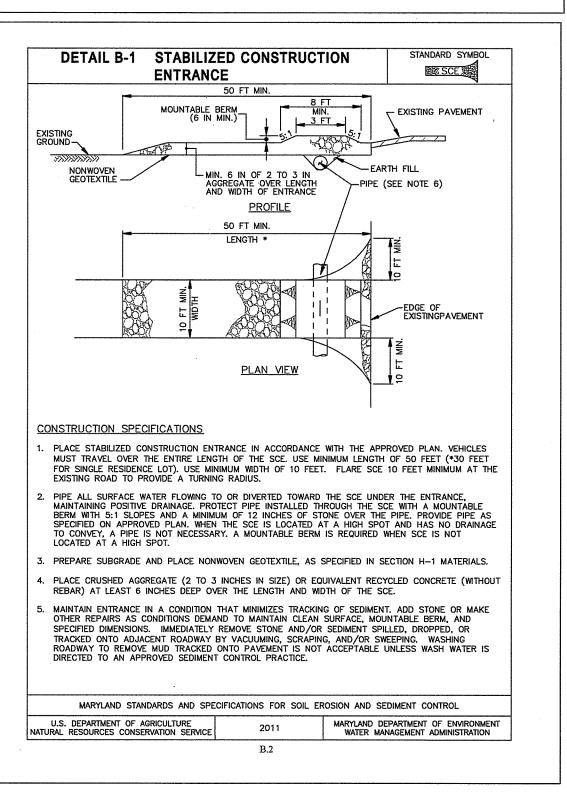
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE TURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT ADMINISTRATION





SEDIMENT AND EROSION CONTROL NOTES

- 1. ALL SOIL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
- 2. ALL GRADING AND STABILIZATION SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", "SECTION B GRADING AND STABILIZATION" AND THE PROVISIONS OF THE APPROVED PLAN.
- 3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) ARE TO BE CONSTRUCTED AND/OR INSTALLED PRIOR TO OR AT THE INITIATION OF GRADING IN ACCORDANCE WITH "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND THE APPROVED PLAN.
- 4. A GRADING UNIT IS THE MAXIMUM CONTIGUOUS AREA ALLOWED TO BE GRADED AT A GIVEN TIME AND IS LIMITED TO 20 ACRES. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY AND/OR THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT (APPROVAL AUTHORITY). UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
- 5. FOR INITIAL SOIL DISTURBANCE OR RE—DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:

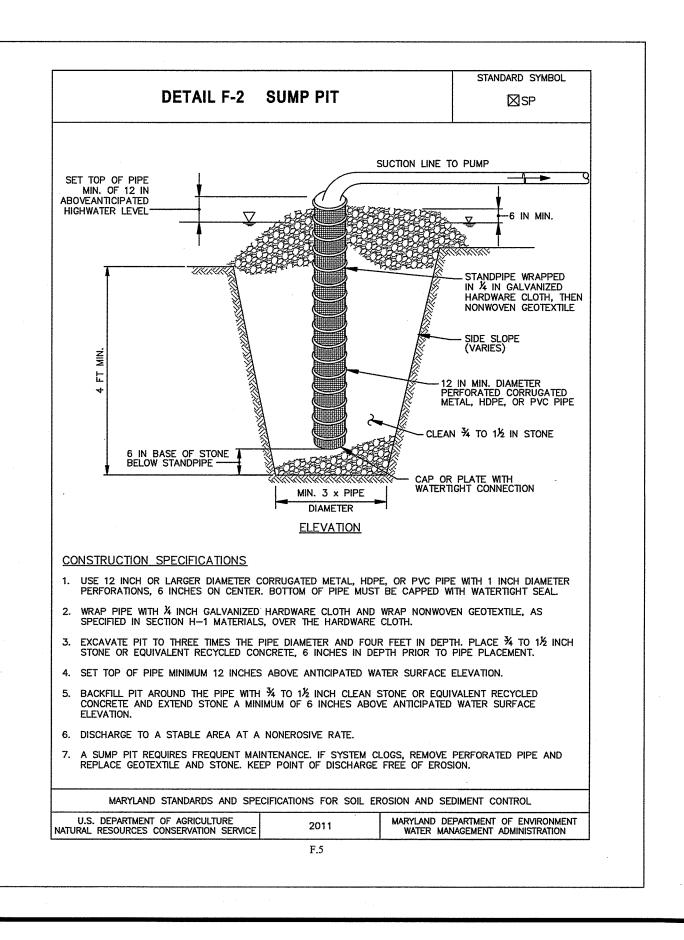
 a) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1). AND
- SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
 b) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- 6. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITHIN THE 7 DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION (AS APPLICABLE).
- 7. ALL CONSTRUCTED CHANNELS AND SWALES SHALL HAVE SPECIFIED TREATMENT INSTALLED TO THE DESIGN FLOW DEPTH COMPLETED DOWNSTREAM TO UPSTREAM AS CONSTRUCTION PROGRESSES. AN INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS
- 8. ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- 9. ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- 10. NO SLOPE SHALL BE GREATER THAN 2:1.
- 11. AS REQUIRED BY SECTION B, OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, "ADEQUATE VEGETATIVE STABILIZATION", IS DEFINED AS 95 PERCENT GROUND COVER. THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT REQUIRES THE PROJECT ADHERE TO THIS FOR SCHEDULING OF THE FINAL SITE CLOSEOUT REVIEW, AND/OR RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL.

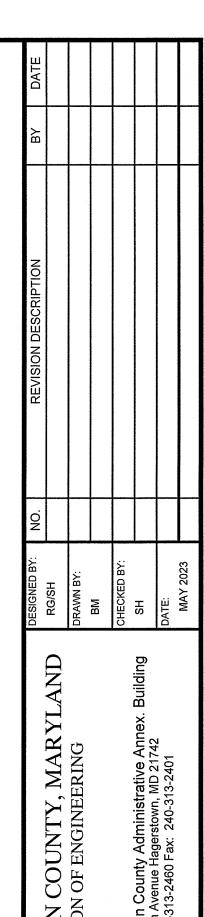
TURFGRASS ESTABLISHMENT SEEDING SUMMARY

	Seed Mixtures (H From Fi (2011 MDE	Fertilizer Rate (10—20—20)			Lime Rate		
Species	Application Rate (1b/ac)	Seeding Dates	Seeding Depths	N	P205	K20	
Tall Fescue (85%) Perennial Ryegrass (10%) Kentucky Bluegrass (5%)	125 15 10	3/1-5/15 8/15-10/15	1/4" to 1/2"	45 lb/ac (1.0 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	2 tons/ac (90 lb/1000 sf)

TEMPORARY SEEDING SUMMARY

	Seed Mixtures (Ho From Fi (2011 MDE	Fertilizer Rate (10-20-20)	Lime Rate		
Species	Application Rate (1b/ac)	Seeding Dates	Seeding Depths	436 lb/ac	2 tons/ac
Barley (Hordeum Vulgare)	(96 lbs.)	3/1-5/15 8/1-10/15	1 ln.	(10 lb/1000 sf)	(90 lb/1000 sf)





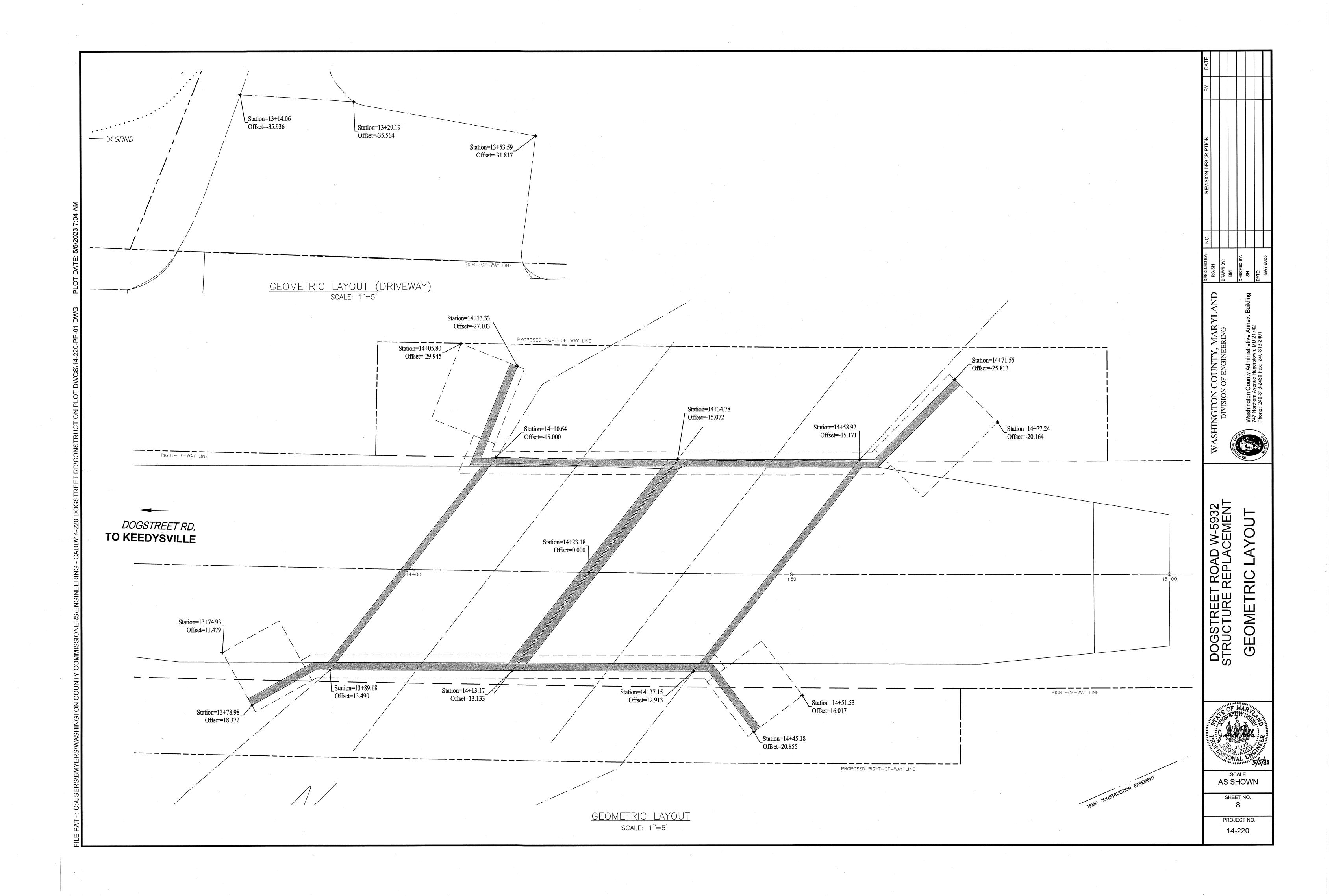
MASHINGTON
DIVISION
Washington C
747 Northern Av
Phone: 240-313

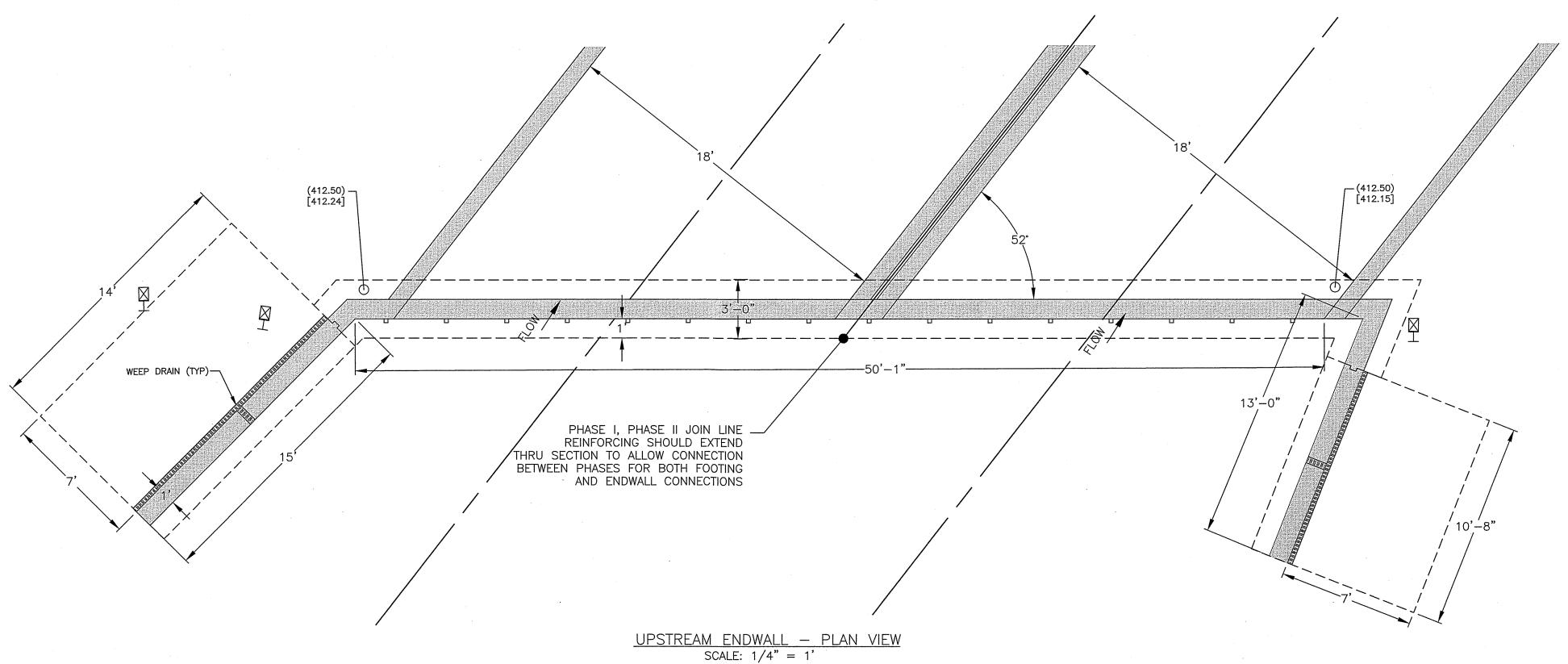
DOGSTREET ROAD W-5932
STRUCTURE REPLACEMENT
EROSION AND SEDIMENT
CONTROL DETAILS



SCALE AS SHOWN

SHEET NO.





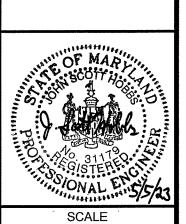
NOTES:

- 1. THE PROPOSED ENDWALL FOOTINGS HAVE BEEN DESIGNED FOR A BEARING PRESSURE OF 3,000 PSF WHICH SHALL BE VERIFIED DURING CONSTRUCTION BY A MARYLAND LICENSED GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR. SHOULD THE ACTUAL BEARING PRESSURE AT THE PLANNED BOTTOM OF FOOTING ELEVATION BE FOUND TO BE LESS THAN ASSUMED, THE FOOTING DIMENSIONS SHALL BE ADJUSTED AT THE DIRECTION OF THE ENGINEER.
- 2. WATERPROOFING MEMBRANE SHALL BE 2-PLY AND 16" MINIMUM WIDTH CENTERED ON ALL CONCRETE JOINTS.
- 3. DAMPPROOFING SHALL BE APPLIED TO ALL CONCRETE SURFACES IN CONTACT WITH BACKFILL.
- 4. REFER TO REINFORCING DETAILS ON SHEET 11 & 12.
- 5. SLOPE WILL VARY. GRADE EMBANKMENTS AS SHOWN ON SHEET 5 & 6 AND AS DIRECTED BY THE ENGINEER.
- 6. REFER TO SHEET 10 FOR WEEP DRAIN DETAIL,

ASHINGTON COUNTY, MARYL DIVISION OF ENGINEERING

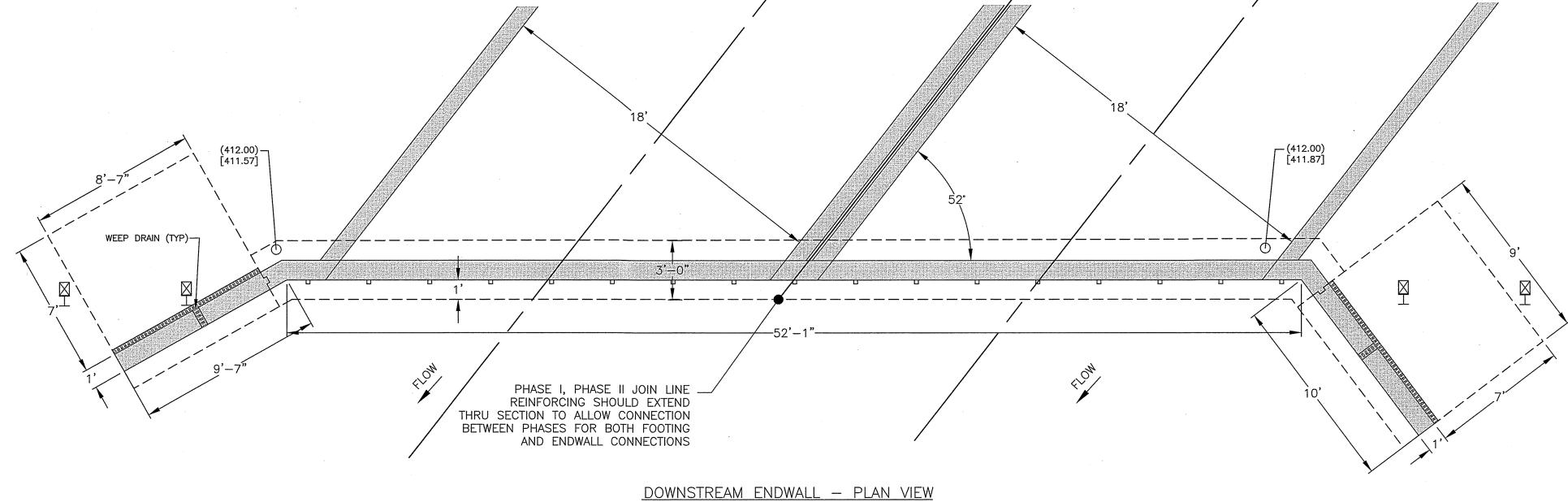


DOGSTREET ROA STRUCTURE REPL PLAN & ELEV ENDWALLS - UP

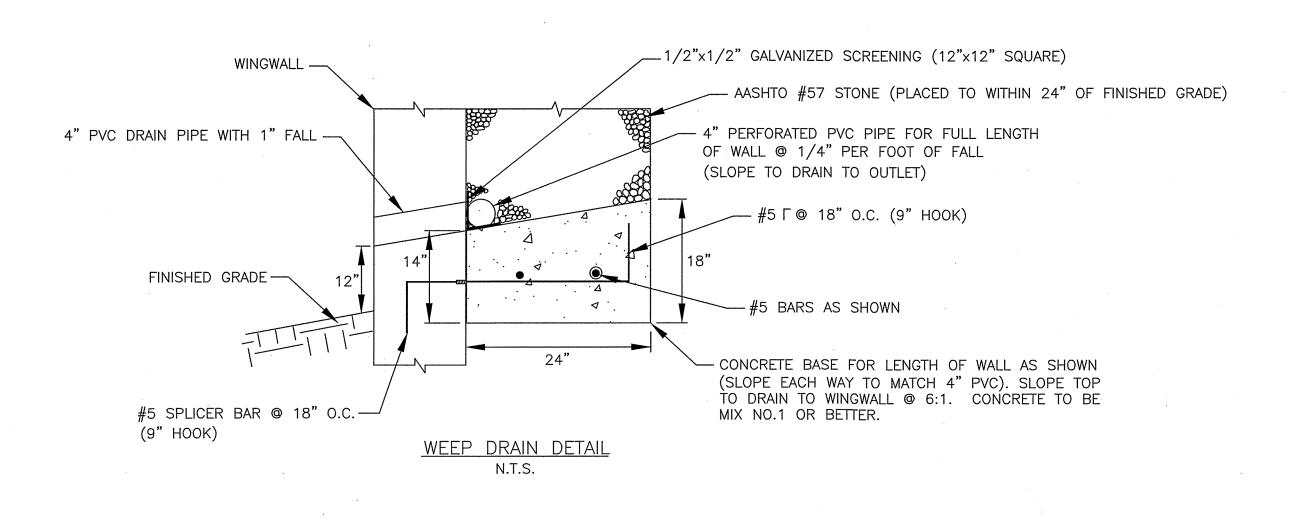


AS SHOWN

SHEET NO.



SCALE: 1/4" = 1'



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- 1. THE PROPOSED ENDWALL FOOTINGS HAVE BEEN DESIGNED FOR A BEARING PRESSURE OF 3,000 PSF WHICH SHALL BE VERIFIED DURING CONSTRUCTION BY A MARYLAND LICENSED GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR. SHOULD THE ACTUAL BEARING PRESSURE AT THE PLANNED BOTTOM OF FOOTING ELEVATION BE FOUND TO BE LESS THAN ASSUMED, THE FOOTING DIMENSIONS SHALL BE ADJUSTED AT THE DIRECTION OF THE ENGINEER.
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- 4. REFER TO REINFORCING DETAILS ON SHEET 11 & 12.
- 5. SLOPE WILL VARY, GRADE EMBANKMENTS AS SHOWN ON SHEET 5 & 6 AND AS DIRECTED BY THE ENGINEER.

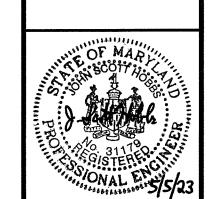
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 REVISION DESCRIPTION
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gton County Administrative Annex. Building nern Avenue Hagerstown, MD 21742 40-313-2460 Fax: 240-313-2401

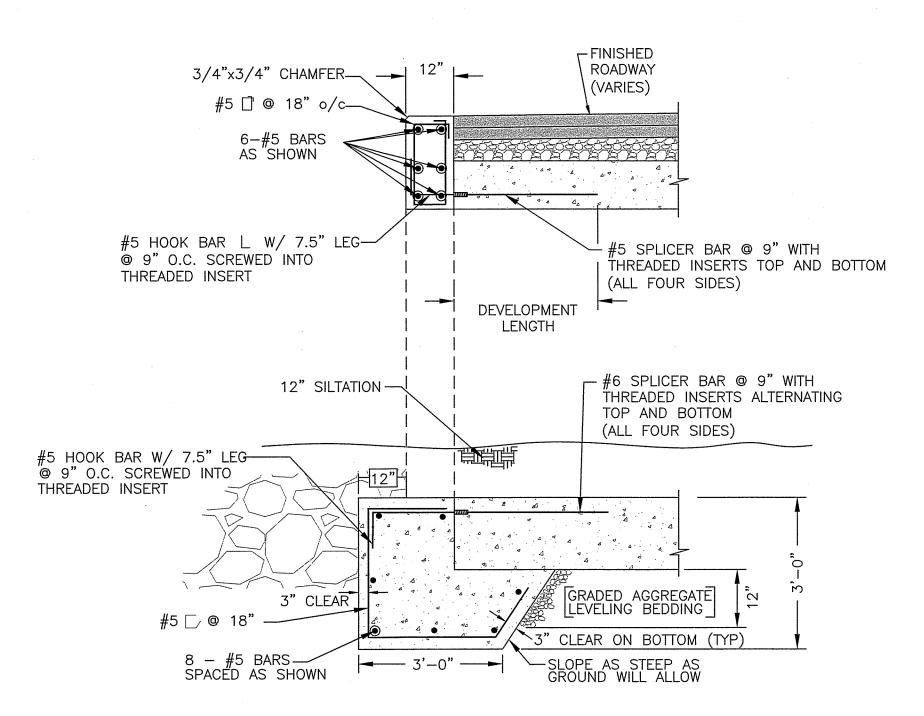




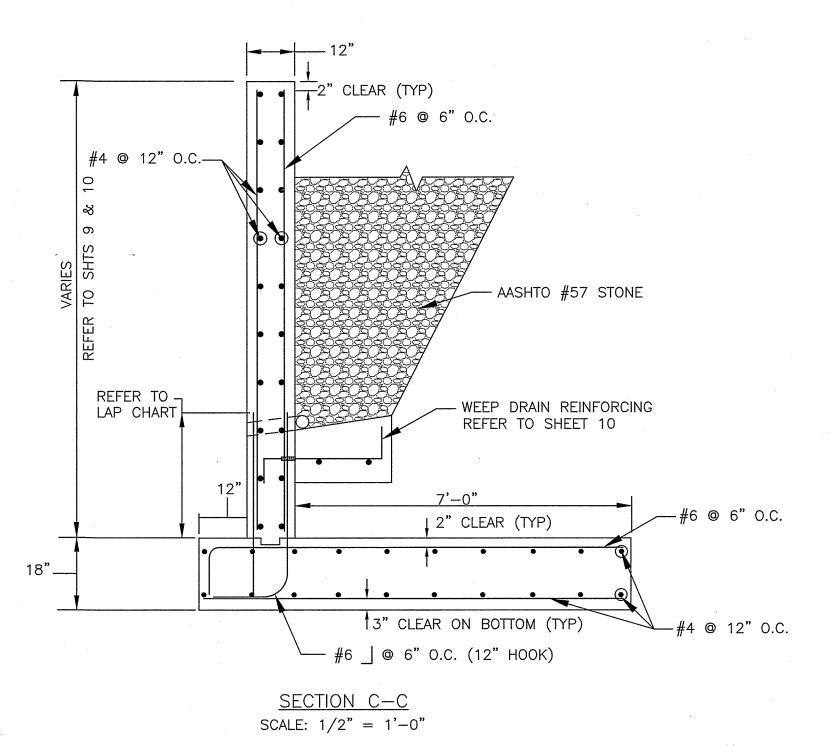


SCALE AS SHOWN

SHEET NO. **10**



SECTION B-B SCALE: 1/2" = 1'-0"



NOTES:

DESIGN SPECIFICATIONS: AASHTO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, DATED 2020, INCLUDING INTERIM SPECIFICATIONS.

> STRUCTURAL DESIGN OF PRECAST CONCRETE BOX SHALL MEET OR EXCEED AASHTO HL-93 LOADING.

> > LOAD RATING CALCULATIONS SHALL VERIFY THE STRUCTURE DOES NOT REQUIRE A WEIGHT RESTRICTION POSTING FOR MARYLAND LEGAL LOAD TYPES (H-15, HS-20, TYPE 3 & TYPE 4, TYPE 3S2). ALL CALCULATIONS INCLUDING THE STRUCTURAL DESIGN AND LOAD RATING CALCULATIONS SHALL BE SUBMITTED TO THE WASHINGTON COUNTY ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE MANUFACTURE OF THE STRUCTURE.

PRECAST CONCRETE: ALL CONCRETE FOR THE PRECAST BOX CULVERT UNITS SHALL BE 5,000 PSI

MIN. AT 28 DAYS.

CULVERT SLAB THICKNESSES, WALL DIMENSIONS, AND REINFORCING DESIGNED TO MEET LOADING REQUIREMENTS MAY VARY FROM THOSE FOUND IN ASTM AND AASHTO SPECIFICATIONS.

REFER TO ASTM C1433/AASHTO M259 AND AASHTO M273 (FORMERLY ASTM C789/AASHTO M259 FOR CULVERTS WITH FILL HEIGHTS OF 2 FEET OR GREATER AND ASTM C850/AASHTO M273 FOR CULVERTS WITH FILL HEIGHTS OF LESS THAN 2 FEET).

ALL CONCRETE EDGES SHALL BE CHAMFERED 3/4" x 3/4".

LIFTING EYES/HOLES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING. THEY SHALL BE FILLED AS DIRECTED BY THE MANUFACTURER AFTER THE BOX SECTIONS ARE IN PLACE.

AN APPROVED BUTYL RUBBER, FLEXIBLE FOAM, OR BITUMINOUS MASTIC FROM THE MANUFACTURER SHALL BE PROVIDED IN EACH JOINT TO PROVIDE A WATERTIGHT SEAL.

ALL SIDES OF THE BOX CULVERT SHALL BE DAMPPROOFED WITH AN APPROVED ASPHALT BASED PAINT/PRIMER.

ALL BOX SECTIONS SHALL BE MARKED AS FOLLOWS IN ACCORDANCE WITH AASHTO M273 BY INDENTATION OR WATERPROOF PAINT: 1.) SECTION RISE, SPAN AND SPECIFICATION DESIGNATION, 2.) DATE OF MANUFACTURE, 3.) NAME OR TRADEMARK OF MANUFACTURER, 4.) PLANT INDENTIFICATION, 5.) MARKED BY INDENTATION ON INSIDE OR OUTSIDE SO THAT THE LOCATION OF THE TOP WILL BE EVIDENT IMMEDIATELY AFTER THE FORMS ARE STRIPPED.

THE MANUFACTURER/ENGINEER SHALL SUBMIT SHOP DRAWINGS OF THE CULVERT TO THE WASHINGTON COUNTY ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE MANUFACTURE OF THE STRUCTURE.

CAST-IN-PLACE CONCRETE:

CONCRETE FOR HEADWALL AND WINGWALL STEMS SHALL BE MSHA MIX NO. 6 (4,500 PSI MIN). FOOTINGS SHALL BE MSHA MIX NO. 3 (3,500 PSI MIN.)

ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" x 3/4" MILLED CHAMFER STRIPS.

DAMPPROOFING SHALL BE APPLIED TO ALL CONCRETE SURFACES COMING IN CONTACT WITH BACKFILL. WATERPROOFING MEMBRANE SHALL BE 2-PLY AND 16" MIN. WIDTH CENTERED ON THE CONSTRUCTION JOINTS.

CONCRETE FOOTINGS AND ENWALL JOINTS BETWEEN PHASE I AND PHASE II SHALL BE SPLICED IN ACCORDANCE WITH THE LAP BAR CHART AND ALL JOINTS SHALL BE WATERPROOFED PER ENGINEERS APPROVAL.

REINFORCING STEEL FOR THE PRECAST BOX CULVERT SHALL BE WELDED WIRE FABRIC (WWF) WITH DEFORMED WIRES PER AASHTO M221 AND M225 (MIN. FY=65,000 PSI) OR DEFORMED REBAR CONFORMING TO ASTM A615, GRADE 60 (MIN. FY=60,000 PSI). SPLICES SHALL BE LAPPED ACCORDING TO AASHTO REQUIREMENTS OR BAR LAP CHARTS. MINIMUM COVER FOR ANY BAR IN THE PRECAST BOX CULVERT SHALL BE 1".

ALL REINFORCING STEEL IN THE TOP SLAB OF THE PRECAST CULVERT UNITS AND IN THE CAST-IN-PLACE HEADWALLS SHALL BE EPOXY COATED.

REINFORCING STEEL FOR CAST-IN-PLACE HEADWALLS AND WINGWALLS SHALL CONFORM TO ASTM 615, GRADE 60. SPLICES NOT SHOWN SHALL BE LAPPED ACCORDING TO AASHTO REQUIREMENTS OR BAR LAP CHARTS. MINIMUM COVER FOR ANY BAR SHALL BE 2 INCHES, UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF BARS AT THE BOTTOM OF ALL FOOTINGS, WHICH SHALL HAVE 3 INCH MINIMUM

FOR TIES AND STIRRUPS: STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACI BENDING TOLERANCES.

BAR LAP DIMENSIONS FOR GRADE 60 RFINFORCING STEFI

			GIVADE	OU INLI	N I	ONCII	NO SILL	L-		
	*	LOCATION	CATEGORY				*	LOCATION	CATEGORY	,
BAR	NON-	EPOXY	EPOXY	COATED		BAR	NON-	EPOXY	EPOXY	COATED
SIZE	Α	В	Α	В		SIZE	Α	В	Α	В
#4	2'-5"	1'-10"	2'-10"	2'-2"		#4	2'-1"	1'-7"	2'-6"	1'-11"
#5	3'-0"	2'-4"	3'-7"	2'-9"		#5	2'-7"	2'-0"	3'-1"	2'-5"
#6	3'-7"	2'-9"	4'-8"	4'-1"		#6	3'-1"	2'-5"	4'-0"	3'-7"
#7	4'-2"	3'-2"	5'-5"	4'-9"		#7	3'-7"	2'-9"	4'-8"	4'-2"
#8	4'-9"	3'-8"	6'-2"	5'-5"		#8	4'-1"	3'-2"	5'-4"	4'-9"
#9	5'-10"	4'-6"	7'-8"	6'-9"		#9	5'-1"	3'-11"	6'-7"	5'-10"
#10	7'-2"	5'-7"	9'-5"	8'-4"		#10	6'-3"	4'-10"	8'-2"	7'-2"
#11	8'-8"	6'-8"	11'-4"	10'-0"		#11	7'-6"	5'-9"	9'-9"	8'-8"

CATEGORY			BAR	FINISHED BEND
EPOXY	COATED		SIZE	DIAMETER
Α	В		#4	3"
2'-6"	1'-11"	'	#5	3-3/4"
3'-1"	2'-5"		#6	4-1/2"
4'-0"	3'-7"		#7	5-1/4"
4'-8"	4'-2"		#8	6"
5'-4"	4'-9"		#9	9-1/2"
6'-7"	5'-10"		#10	10-3/4"
8'-2"	7'-2"		#11	1'-0"

BAR	FINISHED BEND	90°
SIZE	DIAMETER	HOOKS
#4	3"	8"
#5	3-3/4"	10"
#6	4-1/2"	1'-0"
#7	5-1/4"	1'-2"
#8	6"	1'-4"
#9	9-1/2"	1'-6"
#10	10-3/4"	1'-8"
#11	1'-0"	1'-10"

END HOOKS

MIX NO. 6 (4,500psi) CONCRETE

* LOCATION CATEGORY

MIX NO. 3 (3,500psi) CONCRETE

- A BARS IN HORIZONTAL LAYERS IN TOP OF POUR WITH 12" OR MORE OF CONCRETE
- BELOW THEM SUCH AS IN FOOTINGS, PIER CAPS, ETC.

B - ALL BARS NOT IN CATEGORY A

1. WHEN BAR LAP IS NOT SPECIFIED ON THE PLANS, THE ABOVE DIMENSIONS SHALL BE USED.

2. FOR CENTER TO CENTER SPACING <6" SEE MD DOT 0.0.S. DETAILS FOR REBAR-BL-101 AND BL-103.

ONAL ENS/5/2 SCALE AS SHOWN

SHEET NO. 11

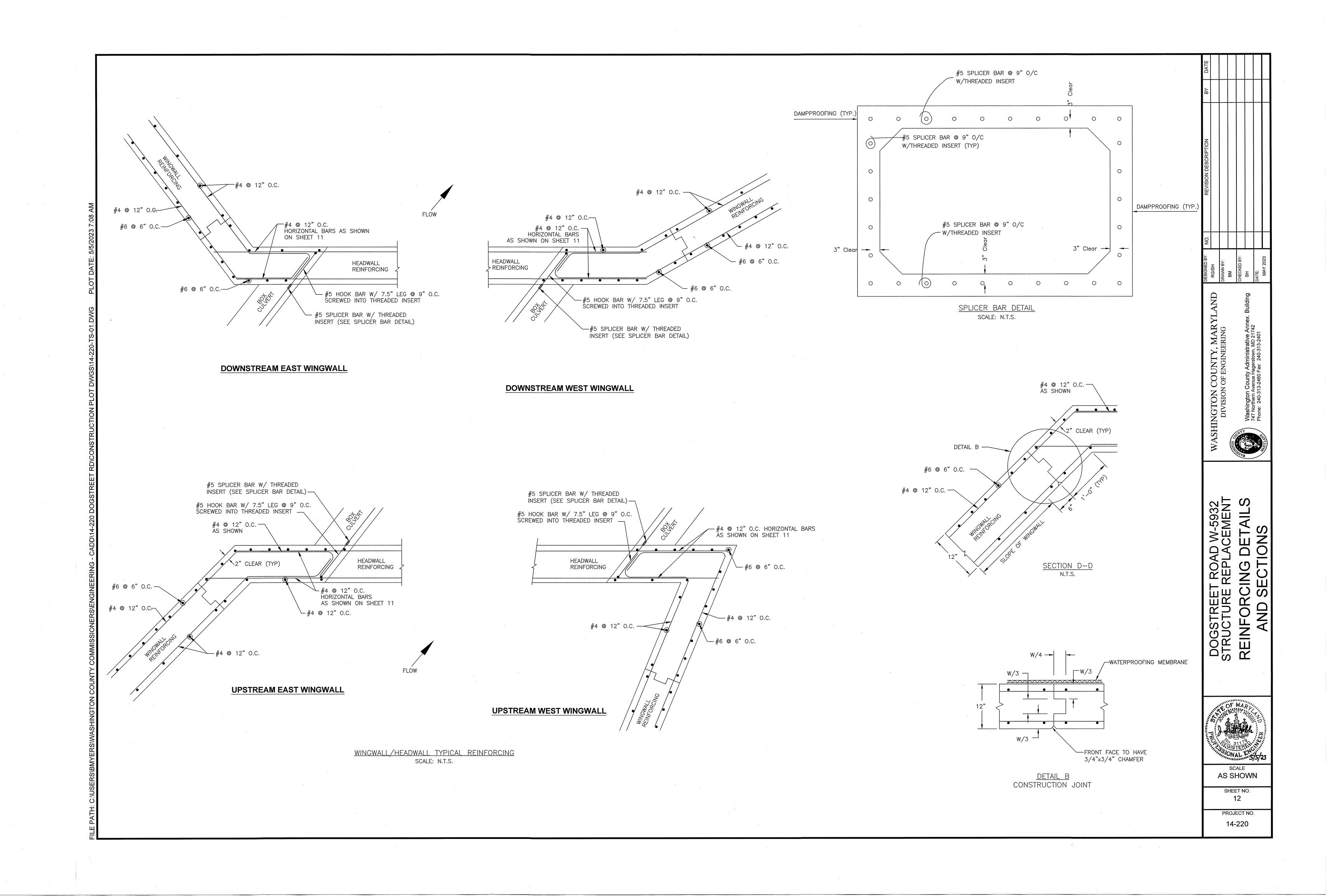
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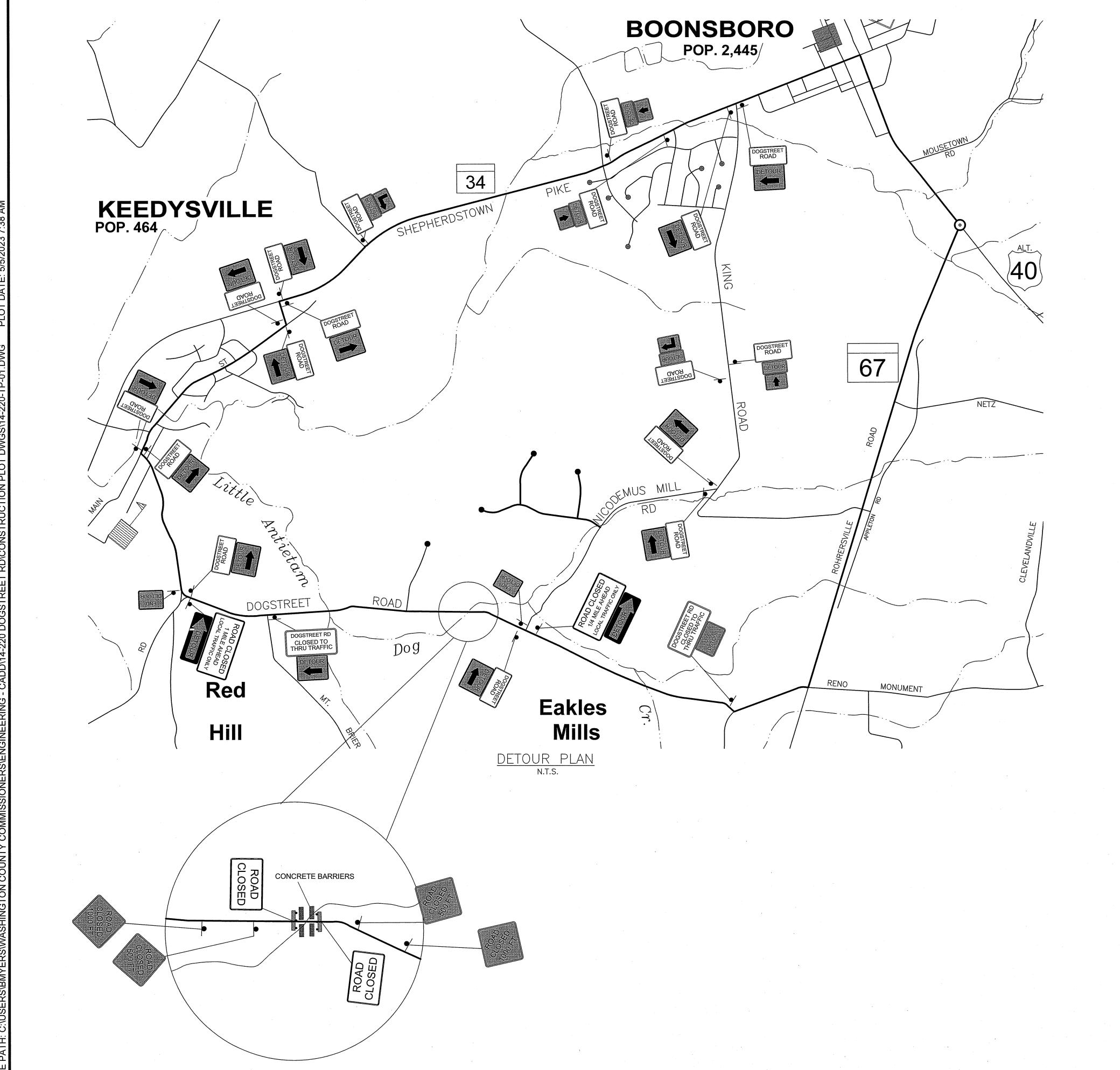
DOGSTREET STRUCTURE F REINFORCI AND I

W-5932 CEMENT ETAILS

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OI7E							
SIGN	SIZE COLOR	QUANTITY	TOTAL S.F.	REMARKS			
DOGSTREET	HORIZONTAL RECT. 36"X18" (4.5 S.F.) BLACK ON WHITE	17	76.5	USE 4" SERIES C LETTERING FOR ALL SIGNS IN TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.			
ROAD CLOSEDMILES AHEAD LOCAL TRAFFIC ONLY	R11-3A 60"x30" (12.5 S.F.) BLACK ON WHITE	2	25				
ROAD CLOSED	R11-2 48"x30" (10 S.F.) BLACK ON WHITE	2	20	INSTALL ON TYPE III BARRICADES AS NOTED.			
DOGSTREET RD CLOSED TO THRU TRAFFIC	R11-4 (MODIFIED) 60"x30" (12.5 S.F.) BLACK ON WHITE	2	25				
DETOUR	M4-10R 48"x18" (6 S.F.) ORANGE ON BLACK	1	6				
DETOUR	M4-10L 48"x18" (6 S.F.) ORANGE ON BLACK		6				
DETOUR	M4-8 24"x12" (2 S.F.) BLACK ON ORANGE	3	6				
	M6-3 (MODIFIED) 21"x15" (2.25 S.F.) BLACK ON ORANGE	3	6.75				
DETOUR	M4-9R 30"x24" (5 S.F.) BLACK ON ORANGE	6	30				
BETOUR	M4-9L 30"x24" (5 S.F.) BLACK ON ORANGE	7	35				
END DETOUR	M4-8A 24"x18" (3 S.F.) BLACK ON ORANGE	2	6				
DETIOUR	M4-8 24"x12" (2 S.F.) BLACK ON ORANGE	1	2	·			
	M5-1L (MODIFIED) 21"x15" (2.25 S.F.) BLACK ON ORANGE	1	2.25				
DETOUR	24"x12" (2 S.F.) BLACK ON ORANGE M5-1R (MODIFIED) 21"x15" (2.25 S.F.) BLACK ON ORANGE	1	2.25				
ROAD CLOSED FT	W20-3 36"x36" (9 S.F.) BLACK ON ORANGE	4	36				
NOTICE DOGSTREET ROAD TO BE CLOSED ON OR ABOUT FOR WEEKS	G95-2 (MOD) 60"x48" (20 S.F.) BLACK ON YELLOW (TOP) BLACK ON WHITE (BOTTOM)	2	40	PLACE IN SAME LOCATION AS R11-3A (WITH DETOUR ARROW) TWO WEEKS PRIOR TO START OF WORK. REMOVE AT START OF WORK AND REPLACE WITH R11-3A. USE LETTERING THAT FITS APPROPRIATELY ONTO SIGN.			
	ALTERNATING ORANGE AND WHITE RETRO- REFLECTIVE STRIPES	2		TYPE III BARRICADE WITH WARNING LIGHTS			
	12' LENGTHS (TYP.) 32" TYPE "F" SHAPED	4		PRECAST CONCRETE TRAFFIC BARRIER			
•	ORANGE TRAFFIC DRUMS	10					

NOTE

1. THE TRAFFIC CONTROL PLAN INDICATED IS FOR A FULL ROAD CLOSURE.

- 2. ALL TRAFFIC CONTROL DEVICES, METHODS, AND MATERIALS USED SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF THE WORK AND SAFETY OF THE PUBLIC, ALL AS INDICATED IN THE MUTCD.
- 4. THE TRAFFIC CONTROL PLAN DEPICTS THE MINIMUM TRAFFIC CONTROL REQUIRED DURING WORK TO PROVIDE A ROAD CLOSURE. THE ENGINEER MAY DIRECT ADJUSTMENT OF THE LOCATION OF THE TRAFFIC CONTROL DEVICES AT NO ADDITIONAL COST TO THE COUNTY.
- 5. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED AT THE INCEPTION OF THE WORK DESCRIBED AND SHALL BE PROPERLY MAINTAINED AND OPERATED. UPON COMPLETION OF THE WORK, THE DEVICES SHALL BE REMOVED AND ALL SALVAGED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 6. TEMPORARY PRECAST CONCRETE JERSEY BARRIERS SHALL BE REMOVED AND RESET DAILY FOR PROTECTION AGAINST THE OPEN CUT IN THE ROADWAY. ORANGE TRAFFIC DRUMS SHALL BE PLACED AS NEEDED TO DELINEATE DRIVEWAY ENTRANCES AT CONSTRUCTION SITE.
- 7. WEEDS, SHRUBBERY, CONSTRUCTION MATERIALS OR EQUIPMENT, SPOIL, ETC. SHALL NOT BE ALLOWED TO OBSCURE ANY TRAFFIC CONTROL DEVICE.
- 8. ALL EQUIPMENT AND MATERIALS SHALL BE STORED OUTSIDE OF THE ROADWAY CLEAR ZONE AND WITHIN THE EXISTING RIGHT OF WAY.
- 9. THE CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS TO ALL DRIVEWAYS AND PROPERTIES AT ALL TIMES.

WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING	Washington County Administrative Annex. Building 747 Northern Avenue Hagerstown, MD 21742 Phone: 240-313-2460 Fax: 240-313-2401
DOGSTREET ROAD W-5932 STRUCTURE REPLACEMENT	TRAFFIC CONTROL PLAN

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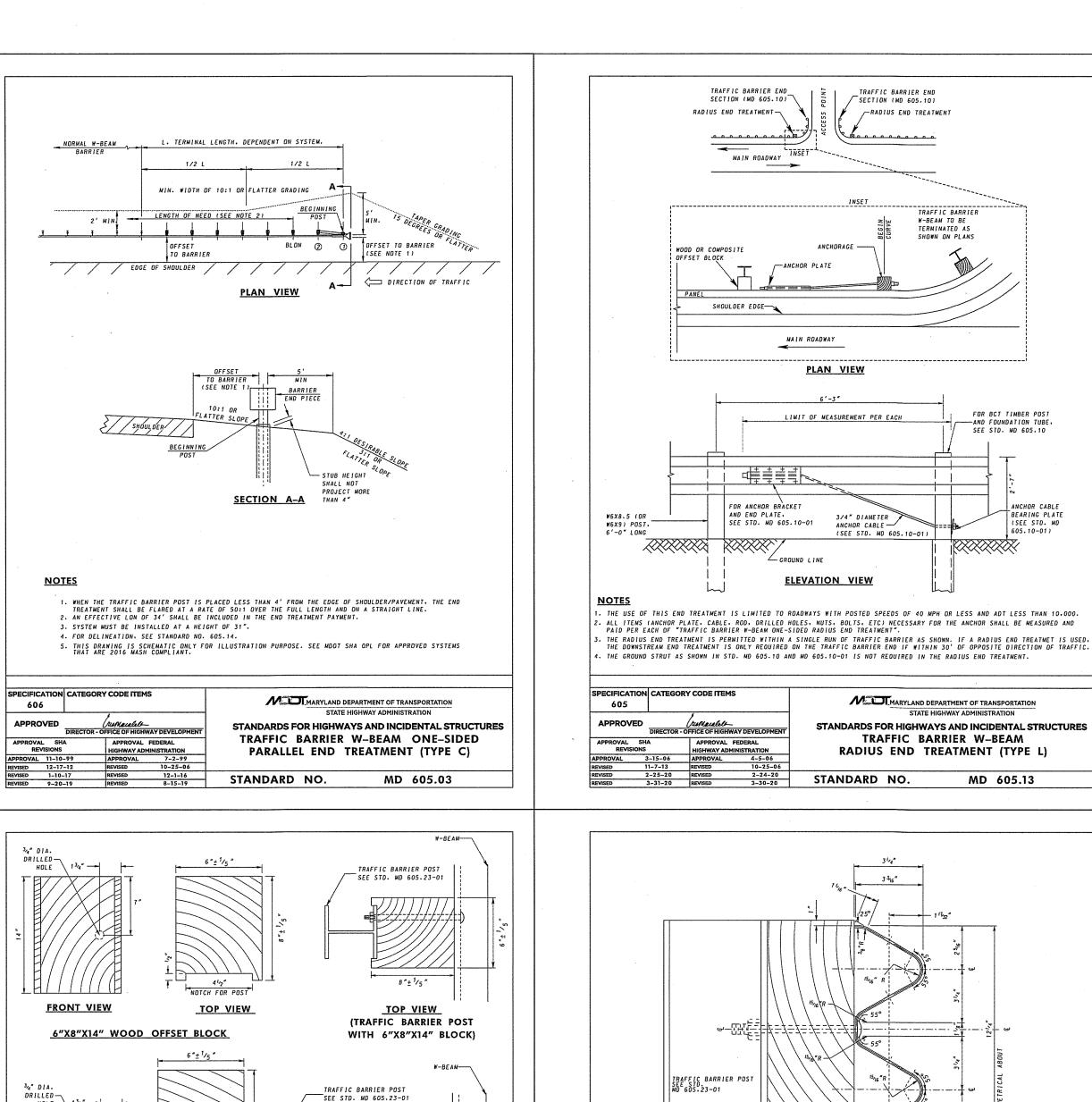
SCALE

AS SHOWN

SHEET NO.

PROJECT NO.

14-220



HOTCH FOR POST

TOP VIEW

1. WOOD OFFSET BLOCKS 6"x8"x14" TO BE USED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.
2. FOR BOLT AND BOLT NUT DETAILS. SEE STD. MD 605.23.
3. COMPOSITE OFFSET BLOCKS THAT ARE APPROVED BY THE ADMINISTRATION MAY BE USED IN LIEU OF WOOD OFFSET BLOCKS (EITHER DUE TO CONTRACTOR'S CHOICE OR WHEN SPECIFIED IN THE CONTRACT DOCUMENTS). REFER TO OPL FOR APPROVED SUBSTITUTES.

* USE COMPOSITE HDPE OFFSET BLOCKS *

STANDARD NO.

FRONT VIEW

605

6"X12"X14" WOOD OFFSET BLOCK

TOP VIEW

(TRAFFIC BARRIER POST

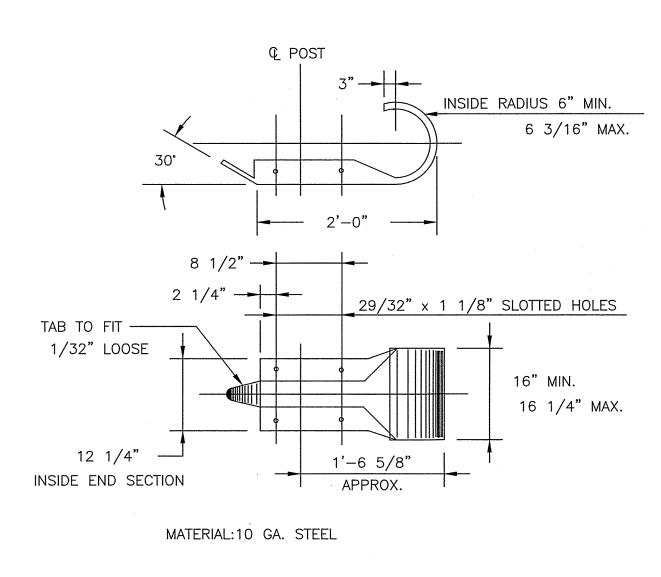
WITH 6"X12"X14" BLOCK)

MATURAND DEPARTMENT OF TRANSPORTATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

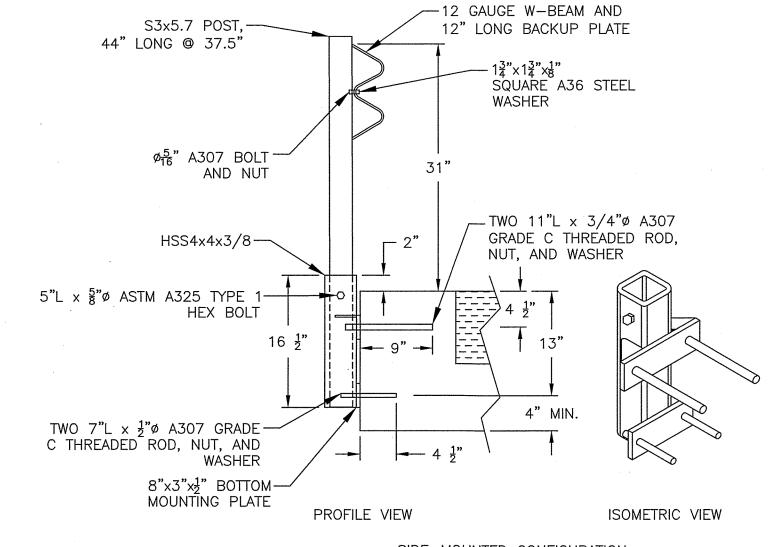
MD 605.21

WOOD OFFSET BLOCK



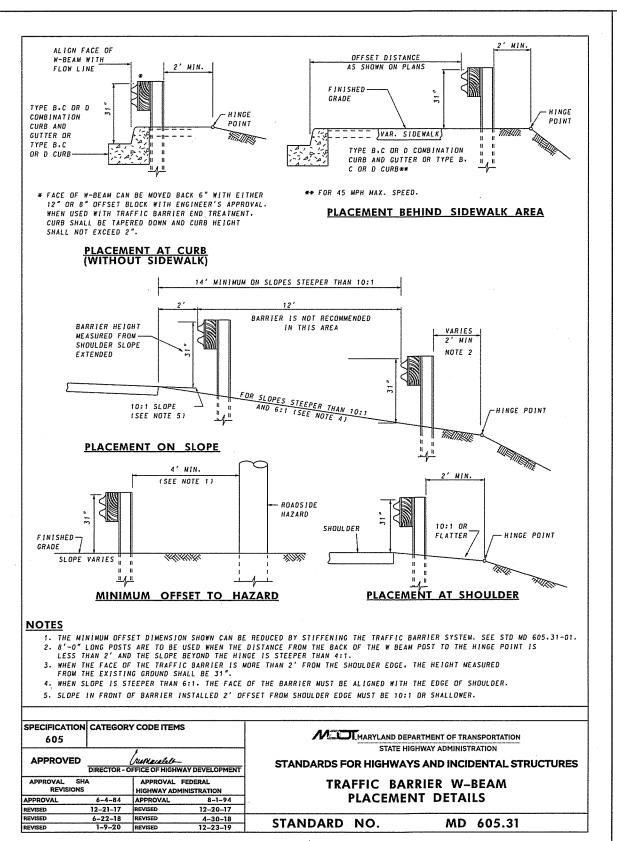
TRAFFIC BARRIER STANDARD END SECTION

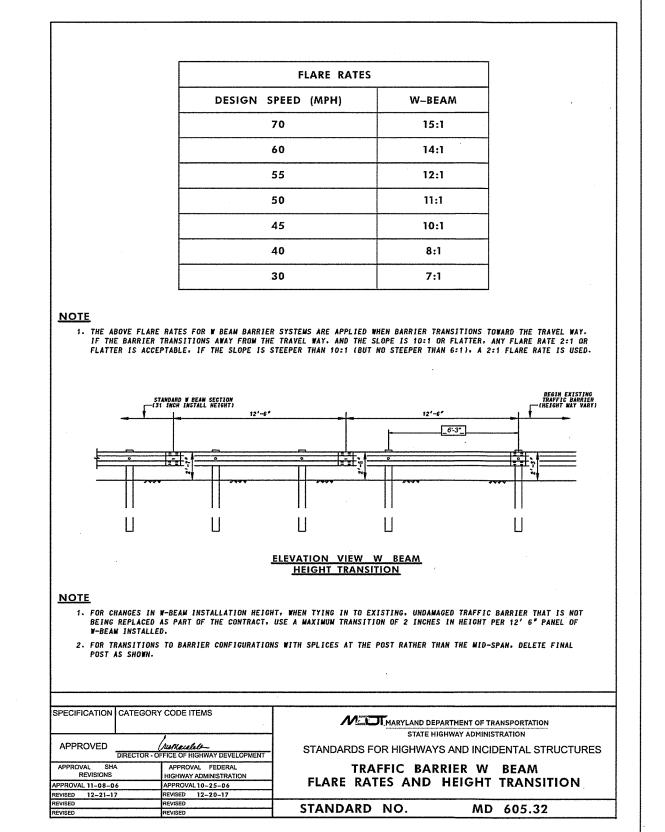
N.T.S.

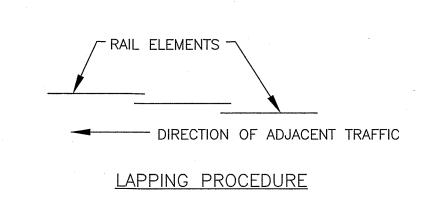


SIDE-MOUNTED CONFIGURATION BARRIER ATTACHMENT TO BRIDGE SUPERSTRUCTURE N.T.S.

- 1. THE 4"x4" SQUARE TUBE SHALL BE ASTM A500 GRADE B GALVANIZED STEEL.
- 2. THE TOP AND BOTTOM MOUNTING PLATES SHALL BE ASTM A572 GRADE 50 GALVANIZED STEEL.
- 3. THE TOP MOUNTING PLATE GUSSET SHALL BE ASTM A572 GRADE 50 GALVANIZED STEEL.
- 4. MEETS MASH TL-2 AT 6'-3" SPACING AND MASH TL-3 AT $3'-1\frac{1}{2}$ " SPACING PER FHWA LETTER OF ELIGIBILITY B-264.









SCALE AS SHOWN

SHEET NO. 14

PROJECT NO. 14-220

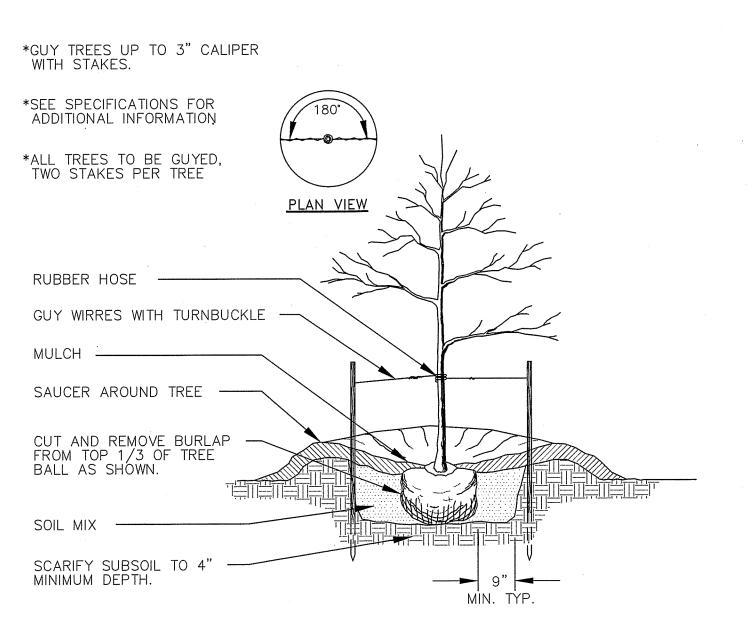
SIDE VIEW
(MATERIAL: 12 GA. STEEL) MARYLAND DEPARTMENT OF TRANSPORTATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES TRAFFIC BARRIER W-BEAM

SINGLE FACE

MD 605.22

STANDARD NO.

1. W-BEAM RAIL IS FURNISHED SHOP CURVED. CONCAVE OR CONVEX TO RADII BETWEEN 20-150'. 2. W-BEAM RAIL SECTIONS SHALL BE 12'-6" OR 25'-0" LENGTHS UNLESS SPECIFIED OTHERWISE. 605



TYPICAL TREE PLANTING

NOTES:

CONTRACTOR SHALL CALL MISS UTILITY AND HAVE ALL UNDERGROUND UTILITIES MARKED PRIOR TO ANY DIGGING OR PLANTING.

AREAS BENEATH THE TREES SHALL BE MULCHED WITH A HARDWOOD BARK MULCH TO A DEPTH OF APPROX. 3", UNLESS NOTED OTHERWISE.

ALL MULCHED AREAS SHALL BE FIRST COVERED WITH AN APPROVED WEED BARRIER.

ALL PLANTS SHALL BE WATERED THOROUGHLY DURING INSTALLATION AND PRIOR TO FINAL ACCEPTANCE.

ALL PLANTS SHALL MEET THE AMERICAN NURSERYMAN'S ASSOCIATION STANDARDS FOR PLANT MATERIAL QUALITY

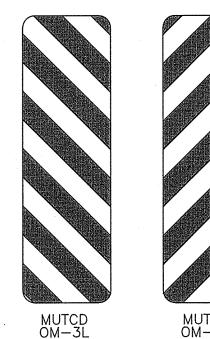
PLANTING SCHEDULE SHALL BE APPROVED AND DIRECTED BY THE ENGINEER PRIOR TO ORDERING MATERIALS.

PLANTING SCHEDULE

TREES							
KEY	QTY	SCIENTIFIC	COMMON	SIZE			
	4	ACER NEGUNDO	BOX ELDER	1" MIN. CALIPER			
	4	CERCIS CANADENSIS	REDBUD	5 FT MIN HEIGHT			
	4	JUGLANS NIGRA	BLACK WALNUT	1" MIN. CALIPER			

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	EST. QUAN.
101	CLEARING AND GRUBBING	L.S.	L.S.
102	MOBILIZATION	L.S.	L.S.
103	MAINTENANCE OF TRAFFIC	L.S.	L.S.
104	TEMPORARY TRAFFIC SIGNS	S.F.	317
105	TEMPORARY CONCRETE TRAFFIC BARRIER	L.F.	48
106	TYPE III BARRICADE FOR MAINTENANCE OF TRAFFIC	EA.	2
107	CONSTRUCTION STAKEOUT	L.S.	2 L.S.
108	CONTINGENT: TEMPORARY ORANGE CONSTRUCTION FENCE	L.F.	300
109	DRUMS FOR MAINTENANCE OF TRAFFIC	EA.	10
001	STDEAM EVOAVATION	C V	700
201	STREAM EXCAVATION	C.Y.	800
202	STRUCTURE EXCAVATION	C.Y.	300
203	CONTINGENT: CLASS III EXCAVATION	C.Y.	300
204	COMMON BORROW	C.Y.	200
205 206	SELECTED BACKFILL REMOVAL OF EXISTING PAVEMENT	C.Y. S.Y.	650
	NEMOVAL OF EXISTING FAVEMENT	0.1.	
301	TEMPORARY CONSTRUCTION ENTRANCE	EA,	1
302	STREAM DIVERSION	L.S.	L.S.
303	12 INCH FILTER LOG	L.F.	160
304	CLASS I RIPRAP	S.Y.	130
305	SUMP PIT	EA.	1
306	FILTER BAG	EA.	2
401	REMOVAL OF EXISTING STRUCTURE	L.S.	L.S.
402	REINFORCED CONCRETE BOX CULVERTS (2 EA- 18FT x 5FT)	L.S.	L.S.
403	CAST-IN-PLACE CONCRETE MIX #3 FOR FOOTINGS	C.Y.	60
404	CAST-IN-PLACE CONC. MIX #6 FOR ENDWALL & WINGWALL STEMS	C.Y.	35
405	TRAFFIC BARRIER W-BEAM AT STRUCTURE	L.S.	L.S.
406	STONE WALL REPOINTING	L.F.	75
501	6 INCH GRADED AGGREGATE BASE COURSE	S.Y.	510
<u>501</u> 502	HOT MIX ASPHALT SUPERPAVE SURFACE, 9.5mm	TON	80
503	HOT MIX ASPHALT SUPERPAVE BASE, 19.0mm	TON	140
504	SAW CUTTING	L.F.	55
505	CRUSHER RUN AGGREGATE	C.Y.	5
506	5 INCH WHITE PAINTED PAVEMENT MARKINGS	L.F.	250
507	5 INCH YELLOW PAINTED PAVEMENT MARKINGS	L.F.	250
	O HAGIT TELLOTT TANITED TAVELINE WHAT INTO	L-·I ·	
601	REMOVE AND DISPOSE EXISTING TRAFFIC BARRIER	L.F.	128
602	TRAFFIC BARRIER W-BEAM	L.F.	50
603	TYPE C STANDARD TRAFFIC BARRIER END TREATMENT	EA.	2 2
604	TYPE L STANDARD TRAFFIC BARRIER END TREATMENT	EA.	2
701	PLACING FURNISHED TOPSOIL, 4 INCH DEPTH	S.Y.	750
702	TEMPORARY SEEDING	S.Y.	500
703	TURFGRASS ESTABLISHMENT	S.Y.	750
704	TYPE A SOIL STABILIZATION MATTING	S.Y.	250
705	BLACK WALNUT TREE (MIN. 1 INCH CALIPER)	EA.	4
706	BOX ELDER TREE (MIN. 1 INCH CALIPER)	ĒĀ.	4
707	REDBUD TREE (MIN. 5FT HEIGHT)	EA.	4
801	PERMANENT TRAFFIC SIGNS	S.F.	12
0/17			



MUTCD MUTCD OM-3L OM-3R 12"x36" OBJECT MARKER SIGN N.T.S. ASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex. Building
747 Northern Avenue Hagerstown, MD 21742
Phone: 240-313-2460 Fax: 240-313-2401

MAY 2023

DESIGNED BY:

BM
CHECKED BY:

SH
CHECKED BY:

DATE:

MAY 2023

DATE:

MAY 2023

DOGSTREET ROAD W-5932 STRUCTURE REPLACEMENT QUANTITIES & DETAILS

