

WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING



OAK RIDGE DRIVE AT HALFWAY BOULEVARD SIGHT DISTANCE IMPROVEMENTS

PROJECT NO. 10-277

CONTRACT NO. RD-OA-277-10

FILE PATH: K:\CADD\10-277 OAK RIDGE DR @ HALFWAY BLVD-SIGHT DISTANCE\10-277 DRAWINGS\10-277 COVER AND NOTES.DWG PLOT DATE: 10/5/2021 9:39 AM

ENGINEER / ARCHITECT DESIGN CERTIFICATION
I HEREBY CERTIFY THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01.07, AND MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

Kimberly J. Mohr
SIGNATURE

39252 10.11.21
REGISTRATION NUMBER DATE

SEAL:

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 STATE OF MARYLAND.

LICENSE No. 39252 EXPIRATION DATE: 6.21.22

APPROVED FOR CONSTRUCTION

Scott Hobbs
SCOTT HOBBS, P.E.
DIRECTOR OF ENGINEERING
FOR WASHINGTON COUNTY, MD

10/11/21
DATE

I / WE CERTIFY ALL / ANY PARTIES RESPONSIBLE FOR CLEARING, GRADING, CONSTRUCTION, AND / OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT.

APPROVED FOR CONSTRUCTION.

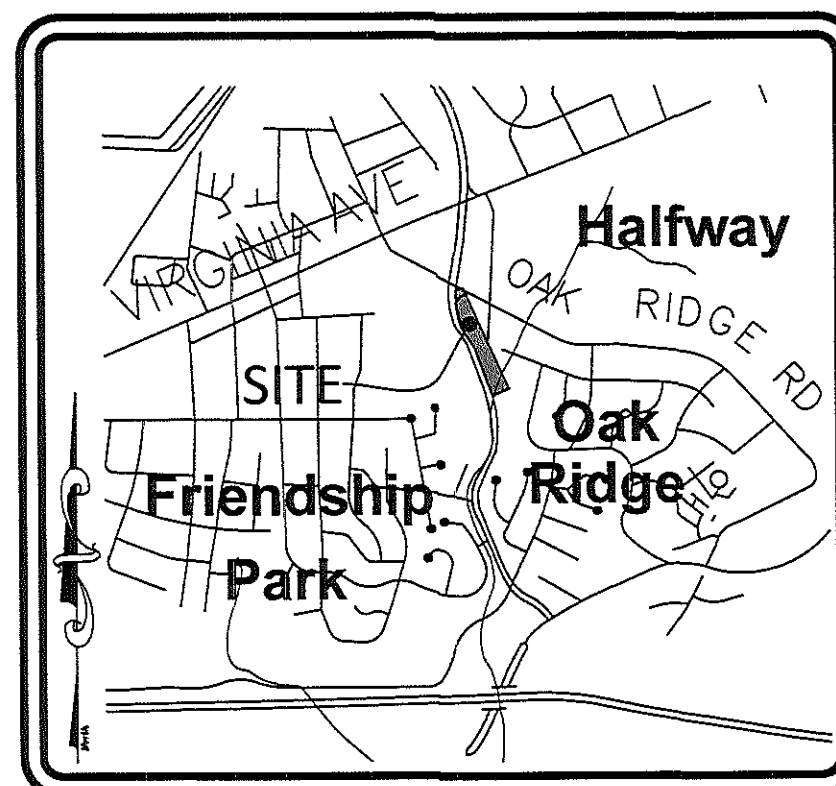
Scott Hobbs
SCOTT HOBBS, P.E.
DIRECTOR OF ENGINEERING
FOR WASHINGTON COUNTY, MD

10/11/21
DATE

WASHINGTON COUNTY SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

BY: *Dawn Torii*
DATE: 10/14/2021
(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. LICENSE No. 31179
DIRECTOR OF ENGINEERING
80 WEST BALTIMORE STREET
HAGERSTOWN, MARYLAND 21740
PHONE: 240-313-2460
FAX: 240-313-2401



BOARD OF COUNTY COMMISSIONERS:

JEFFREY A. CLINE, PRESIDENT
TERRY L. BAKER, VICE PRESIDENT
WAYNE K. KEEFER
RANDALL E. WAGNER
CHARLES A. BURKETT JR.

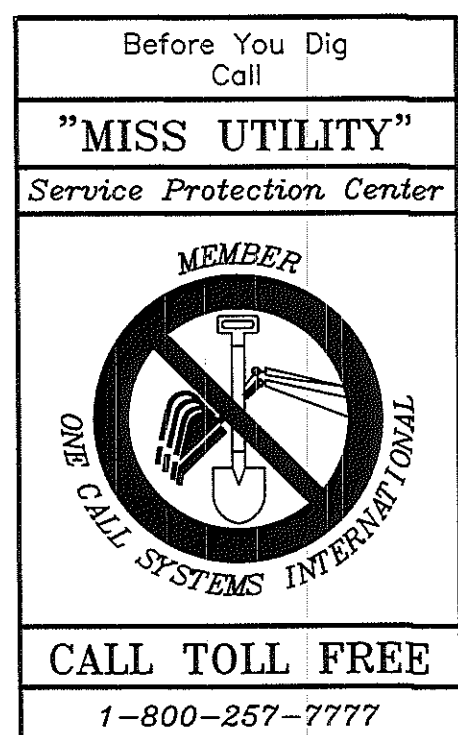
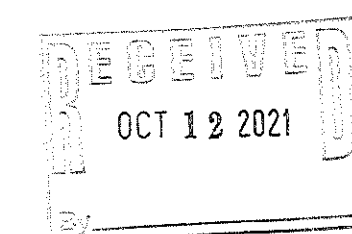
JOHN M. MARTIRANO, COUNTY ADMINISTRATOR
SCOTT HOBBS, P.E., DIRECTOR OF ENGINEERING

DISTURBED AREA QUANTITY

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 0.44 ACRES AND THE TOTAL AMOUNT OF EXCAVATION AND FILL SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 1031 CU. YDS. OF EXCAVATION AND APPROXIMATELY 1.5 CU. YDS. OF FILL.

INDEX OF SHEETS:

- SHEET 01 COVER SHEET
- SHEET 02 GENERAL NOTES AND LEGEND
- SHEET 03 GRADING AND SEDIMENT CONTROL PLANS
- SHEET 04 PROFILES AND DETAILS
- SHEET 05 PHASE 1 TRAFFIC CONTROL PLAN
- SHEET 06 PHASE 2 TRAFFIC CONTROL PLAN
- SHEET 07 TRAFFIC CONTROL DETAILS
- SHEET 08 SEDIMENT AND EROSION CONTROL DETAILS
- SHEET 09 SEDIMENT AND EROSION CONTROL NOTES



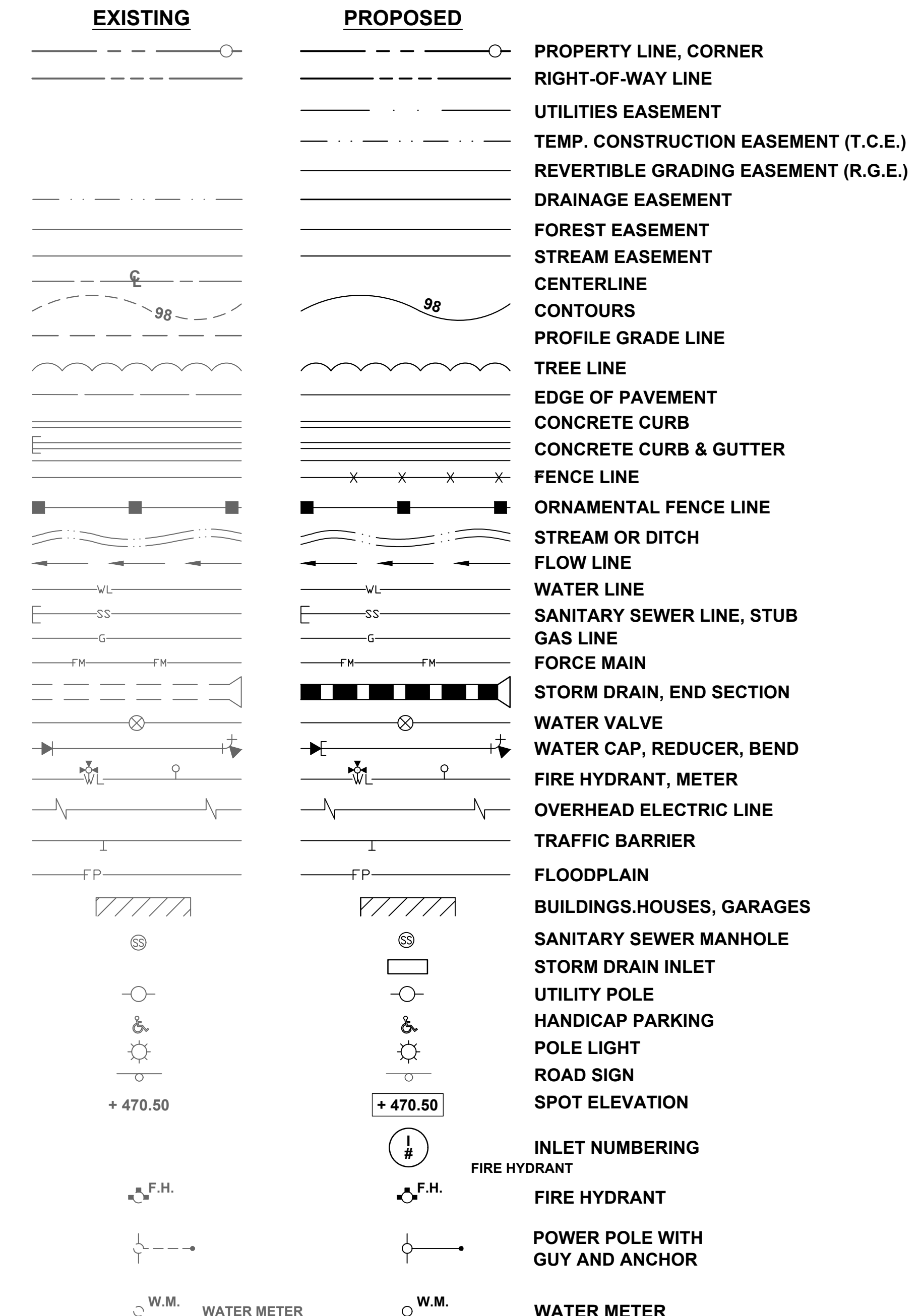
10-277-01

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THE LATEST EDITION OF THE MD-SHA STANDARD SPECIFICATIONS, AND SUPPLEMENTAL SPECIFICATIONS.
- WHERE REFERENCE IS MADE TO STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE IN HIS POSSESSION THE MARYLAND SHA BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES WITH THE LATEST UP TO DATE MSHA STANDARDS AS OF THE DATE OF ADVERTISEMENT OF THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE LATEST APPROVED SET OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND ANY REFERENCED MD-SHA OR CITY OF HAGERSTOWN STANDARDS AS OF NOTICE TO PROCEED.
- HORIZONTAL CONTROL:**
THE COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS VALUES BASED ON SURROUNDING NGS, WASHINGTON COUNTY AND CITY OF HAGERSTOWN CONTROL MONUMENTS ADJUSTED TO THE MARYLAND GRID SYSTEM, NAD 83(91).
- VERTICAL CONTROL:**
THE LOCATIONS AND ELEVATIONS BENCHMARKS ARE SHOWN ON GEOMETRIC LAYOUT PLAN. PROJECT ELEVATIONS SHOWN ARE IN U.S. SURVEY FEET AND AGREE WITH THE MARYLAND GRID SYSTEM, NAVD 88.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING PROPERTY MARKERS, CONTROL POINTS AND BENCHMARKS FOR THE DURATION OF THE CONTRACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE ANY OF THESE POINTS THAT ARE DISTURBED OR DAMAGED DURING THE CONSTRUCTION PROCESS. WHERE NECESSARY, POINTS SHALL BE REPLACED UNDER THE DIRECT SUPERVISION OF A REGISTERED SURVEYOR TO THE STANDARD WITH WHICH THEY WERE ESTABLISHED.
- ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF PIPES MAY BE MODIFIED, AS DIRECTED BY THE ENGINEER, TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES. ALL PIPES SHALL BE CONSTRUCTED ON UNIFORM GRADE BETWEEN INVERT ELEVATIONS AS NOTED ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE LOCATIONS AND LENGTHS OF PIPES TO BE INSTALLED SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES AS NECESSARY IN ORDER TO MEET FIELD CONDITIONS AS APPROVED THE ENGINEER.
- THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF ALL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL CONDITIONS AND PLANNING ALL CONSTRUCTION ACCORDINGLY. ALL DIMENSIONS SHOWN SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE ANY WORK COMMENCES.
- ANY DAMAGE TO ADJACENT ROADS, YARDS, STRUCTURES, FENCES, SHRUBBERY, ETC., DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY OR THE PROPERTY OWNERS BEFORE ANY WORK COMMENCES.
- THE CONTRACTOR SHALL GRADE FOR POSITIVE DRAINAGE AT ALL ROADWAY INTERSECTIONS, ENTRANCES, PARKING LOTS, AND YARDS IN CONFORMANCE WITH THE PROPOSED DRAINAGE PATTERNS SHOWN ON THE PLANS.
- MATERIALS SALVAGED FROM CONSTRUCTION SHALL BECOME THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- WORK SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES. IF ACCESS MUST BE INTERRUPTED FOR SHORT PERIODS OF TIME, THE INTERRUPTION SHALL BE COORDINATED WITH THE ENGINEER AND THE PROPERTY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION BY PROVIDING A REASONABLY SMOOTH AND EVEN SURFACE SATISFACTORY FOR THE USE OF PUBLIC TRAFFIC, AND BY PROVIDING ACCESS TO ALL PUBLIC ROADS AND RESIDENTIAL AND COMMERCIAL ENTRANCES AT ALL TIMES. THE CONTRACTOR TO FOLLOW MD- SHA STANDARDS.
- THE CONTRACTOR SHALL ADJUST TO PROPOSED GRADE ALL EXISTING MANHOLES, VALVE BOXES, OR OTHER UTILITIES LOCATED WITHIN THE ASPHALT OVERLAY AND FULL DEPTH ASPHALT PAVING AREAS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ASPHALT PAY ITEMS NECESSARY TO COMPLETE THE WORK.
- ALL ASPHALT PAVEMENT UTILITY CUTS SHALL BE PERFORMED AND REPAIRED IN ACCORDANCE WITH CITY OF HAGERSTOWN STANDARDS.
- IN ANY AREA WHERE ASPHALT THAT IS TO BE REMOVED ADJOINS ASPHALT THAT IS TO REMAIN, THE ASPHALT PAVING SHALL BE SAW CUT IN ORDER TO PROVIDE A CLEAN JOINT BETWEEN THAT WHICH IS TO BE REMOVED AND THAT WHICH IS TO REMAIN.
- CLEARING AND GRUBBING SHALL OCCUR INSIDE THE PLATTED RIGHT OF WAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- UTILITIES: THE LOCATIONS OF UNDERGROUND AND AERIAL UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT TO BE CONSIDERED COMPLETE OR ACCURATE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS PRIOR TO STATING ANY WORK SHOWN ON THESE DRAWINGS. THE CONTRACTOR MUST PROTECT, IN PLACE, ALL ACTIVE UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON THE PLANS.

Miss Utility	1-800-257-7777
Washington County Division of Engineering	240-313-2460
Washington County Dept. of Water Quality	240-313-2625
Washington County Soil Conservation District	301-797-6821 (Ext.3)
Potomac Edison (Allegheny Power)	301-582-5266
Columbia Gas (Hagerstown)	240-420-2026
Verizon	301-790-7135
Antietam Cable	240-420-2082
City of Hagerstown Utilities Dept. - Water & Wastewater Division	301-739-8577 (Ext. 650)
City Of Hagerstown Light Dept.	301-790-2600
- IF DURING CONSTRUCTION THE CONTRACTOR FINDS THAT CLEARANCES BETWEEN EXISTING UTILITIES AND PROPOSED WORK IS LESS THAN THAT NOTED OR IS LESS THAN SIX INCHES, HE SHALL CONTACT THE ENGINEER FOR INSTRUCTIONS ON HOW TO PROCEED.
- THE CONTRACTOR MUST PROTECT IN PLACE ANY ACTIVE ABOVE GROUND AND OR UNDERGROUND UTILITIES FOUND UNLESS OTHER TREATMENT IS CALLED FOR. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION. THE COUNTY OR THE PROPERTY OWNER SHALL NOT BEAR ANY COST OR RESPONSIBILITY FOR DAMAGE TO UTILITIES OR PROPERTY AS THE RESULT OF THE CONTRACTOR'S NEGLIGENCE.
- THE CONTRACTOR SHALL PROTECT AND NOT INTERRUPT EXISTING UTILITY SERVICES DURING CONSTRUCTION, UNLESS AUTHORIZED BY THE ENGINEER. THE CONTRACTOR SHALL SUPPORT EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION AND THIS SUPPORT SHALL BE INCIDENTAL TO PERTINENT PAY ITEMS. THE LOCATION OF THE UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR.

SYMBOL LEGEND



ABBREVIATIONS

AASHTO	-AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	G2	-GRADE 2	PVI	-POINT OF VERTICAL INTERSECTION
ADT	-AVERAGE DAILY TRAFFIC	H.S.D	-HEADLIGHT SIGHT DISTANCE	PVT	-POINT OF VERTICAL TANGENCY
B.C.	-BOTTOM OF CURB	HWALL	-HEADWALL	R.	-RADIUS
B.F.C.	-BOTTOM FACE OF CURB	INV.	-INVERT	RCP	-REINFORCED CONCRETE PIPE
B/L	-BASE LINE	K	-RATE OF CHANGE OF GRADE	R.G.E.	-REVERTIBLE GRADING EASEMENT
-C	-CUT	L	-LENGTH	R.O.W.	-RIGHT OF WAY
C..B.	-CATCH BASIN	LOD	-LIMIT OF DISTURBANCE	S.B.	-SOUTH BOUND
CL	-CENTERLINE	LP	-LIGHTPOLE	S.D.	-STORM DRAIN
C/O	-CLEANOUT	LVC	-LENGTH OF VERTICAL CURVE	SHLD	-SHOULDER
CONC.	-CONCRETE	MPH	-MILES PER HOUR	S.S.D.	-STOPPING SIGHT DISTANCE
CORR.	-CORRECTION	MSHA	-MARYLAND STATE HIGHWAY ASSOCIATION	STA.	-STATION
CULV.	-CULVERT	N.P.	-NORTH BOUND	SW	-SIDEWALK
Dc	-DEGREE OF CURVATURE	N.T.S.	-NOT TO SCALE	T	-TANGENT
DS..	-DESIGN SPEED	PC	-POINT OF CURVATURE	T.C.	-TOP OF CURB
E	-EXTERNAL	P.D.E.	-PERPETUAL DRAINAGE EASEMENT	T.C.E.	-TEMPORARY CONSTRUCTION EASEMENT
E.B.	-EAST BOUND	P.G.E.	-PROFILE GRADE ELEVATION	T.P.	-TEST PIT
EL., ELEV.	-ELEVATION	P.G.L.	-PROFILE GRADE LINE	TYP.	-TYPICAL
ESMT.	-EASEMENT	P.I.	-POINT OF INTERSECTION	U/BOX	-UTILITY BOX
EX.	-EXISTING	P/R	-POINT OF ROTATION	V.C.	-VERTICAL CURVE
-F-	-FILL	PROP.	-PROPOSED	W.B.	-WEST BOUND
G1	-GRADE 1	PT.	-POINT OF TANGENCY		
		PVC	-POINT OF VERTICAL CURVATURE		

NO.	REVISION DESCRIPTION	BY	DATE

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WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING
 Washington County Administrative Annex, Building
 80 W. Baltimore St., Hagerstown, MD 21740
 Phone: 240-313-2460 Fax: 240-313-2401

DESIGNED BY: LRB
 DRAWN BY: LRB
 CHECKED BY: PJM
 DATE: OCT 2021

OAK RIDGE DR. AT HALFWAY BLVD. SIGHT DISTANCE IMPROVEMENT

GENERAL NOTES AND LEGEND

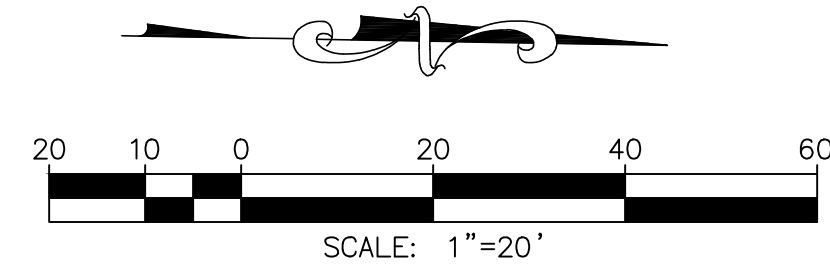
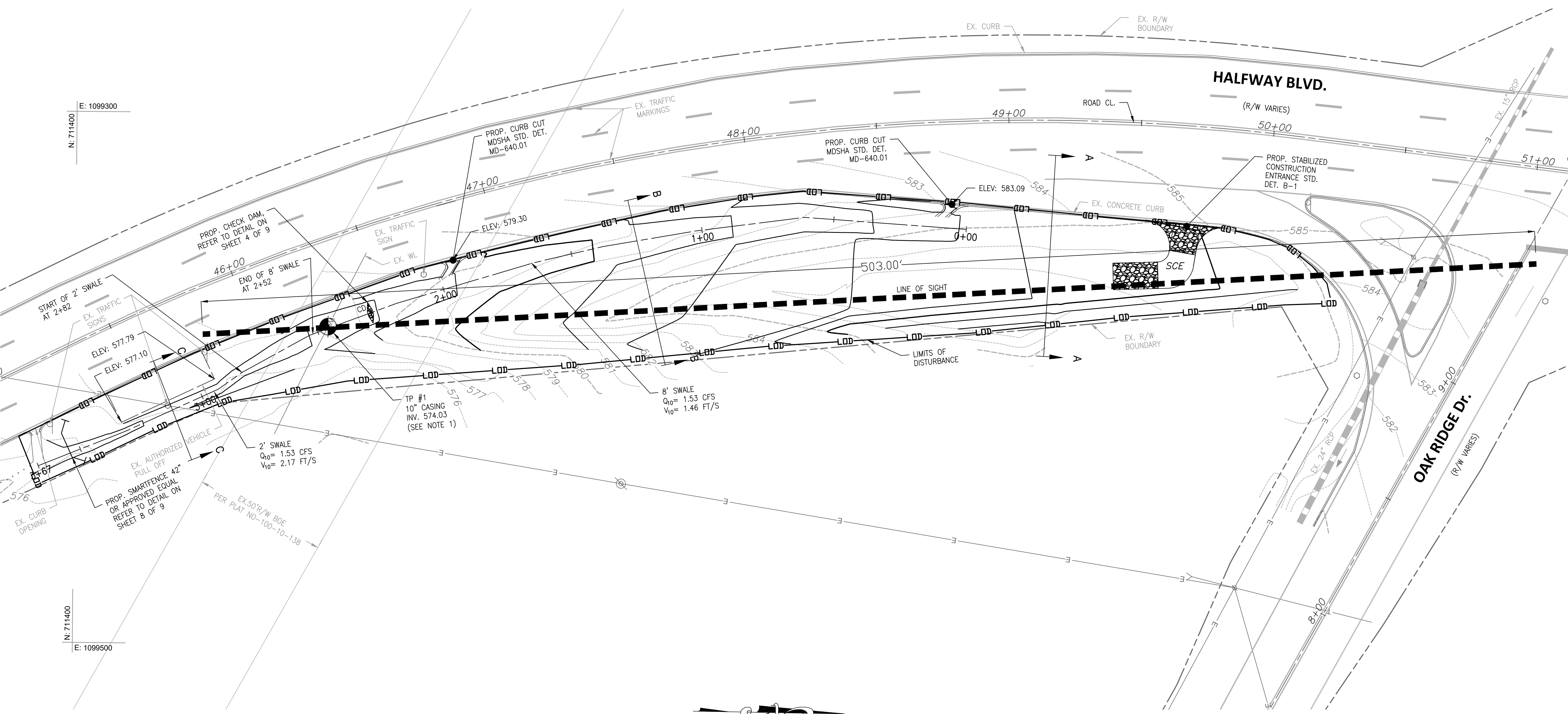
SCALE
NONE

SHEET NO.
2 OF 9

PROJECT NO.
10-277

NOTES:
 1. PRIVATE WATER CONNECTION IS ENCASED WITHIN THE EXISTING 10" CASING.

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NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: LRB
 DRAWN BY: LRB
 CHECKED BY: P.J.M.
 DATE: OCT 2021

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
 80 W. Baltimore St., Hagerstown, MD 21740
 Phone: 240-313-2460 Fax: 240-313-2401

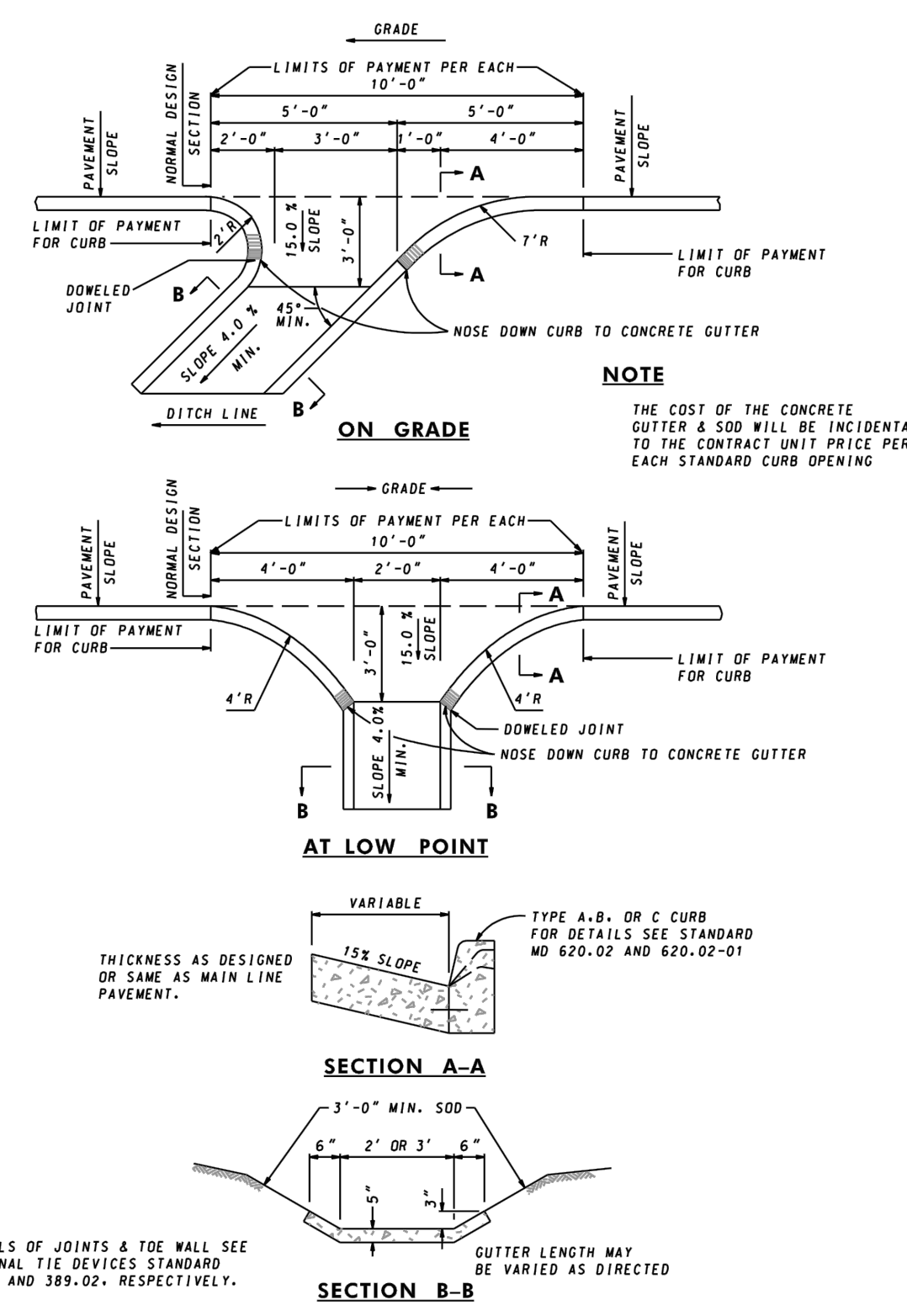
OAK RIDGE DR. AT HALFWAY BLVD.
 SIGHT DISTANCE IMPROVEMENT
 GRADING AND SEDIMENT
 CONTROL PLANS

SCALE
 1"=20'

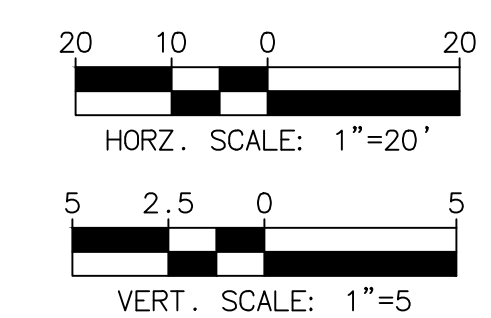
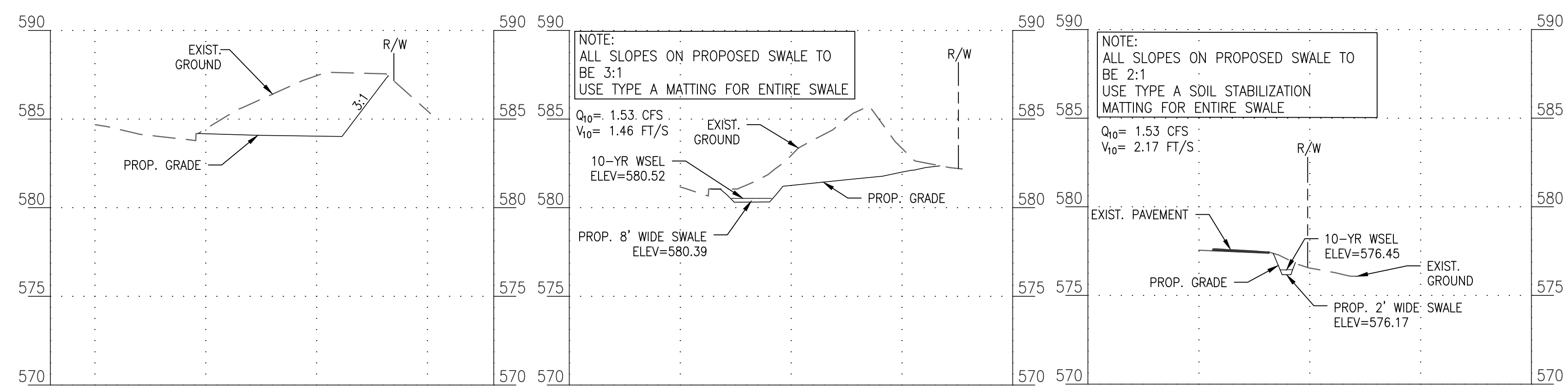
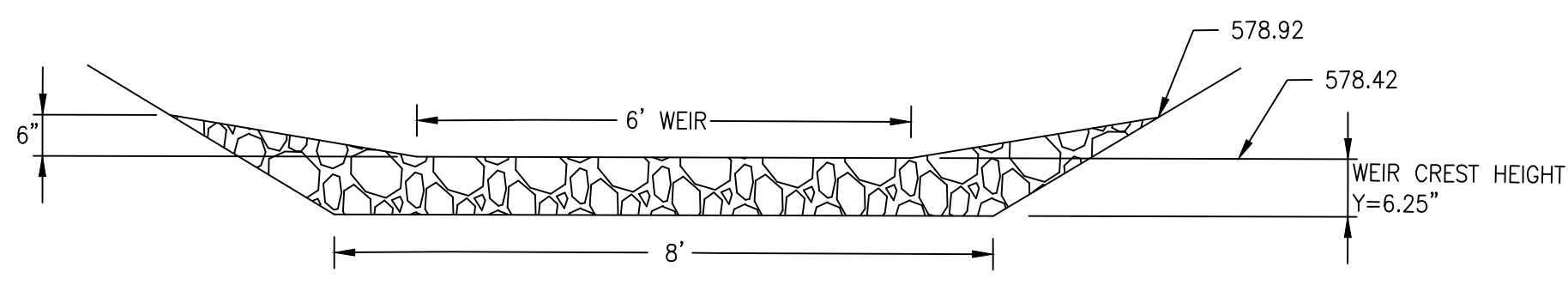
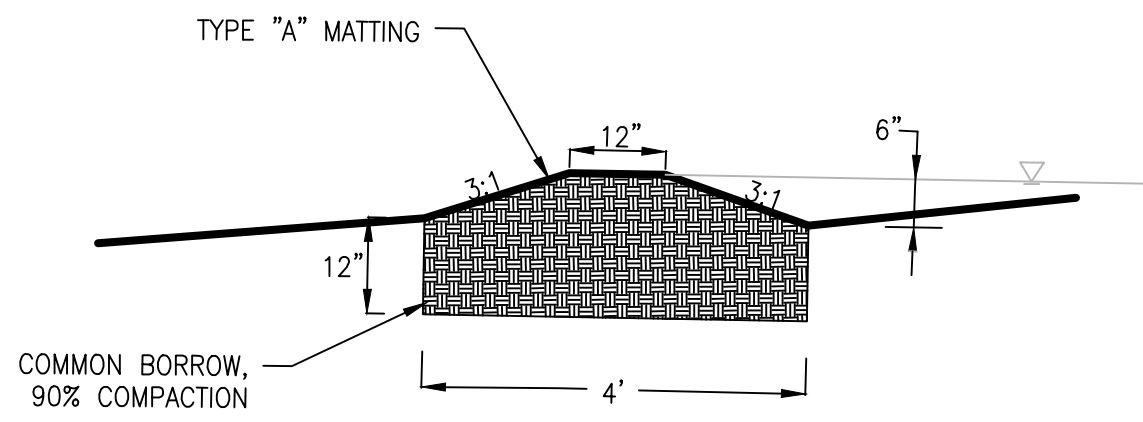
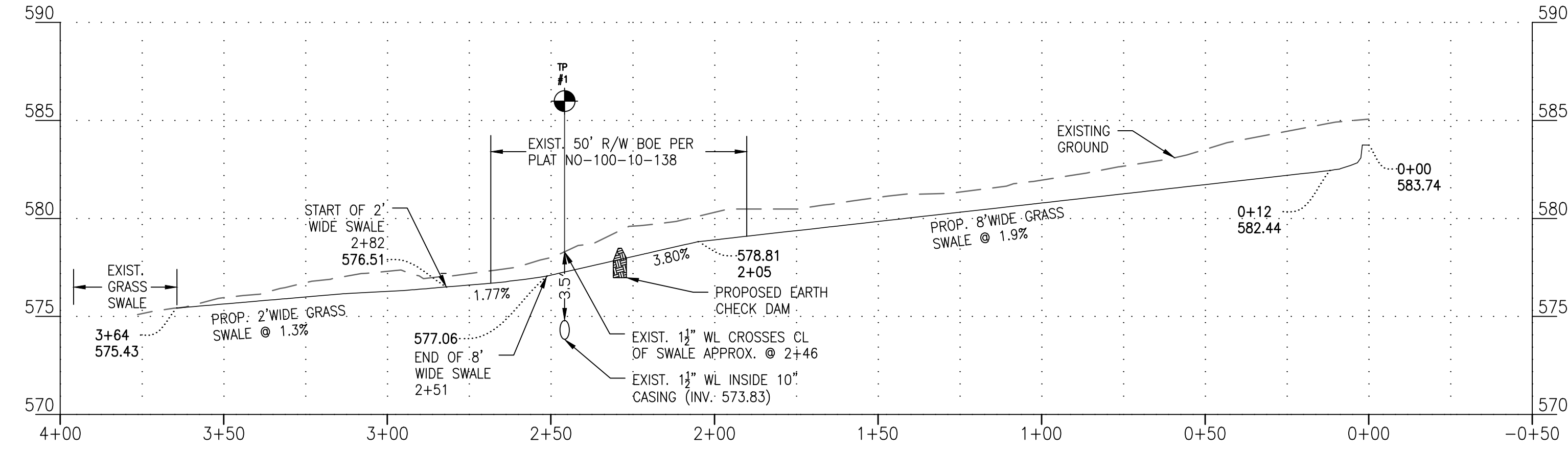
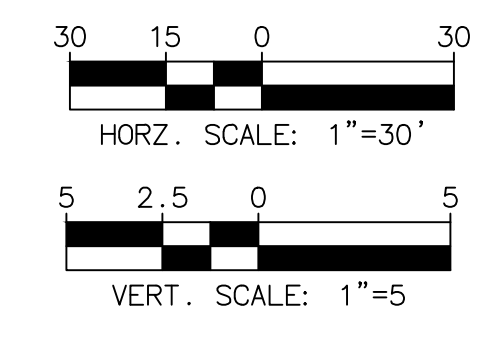
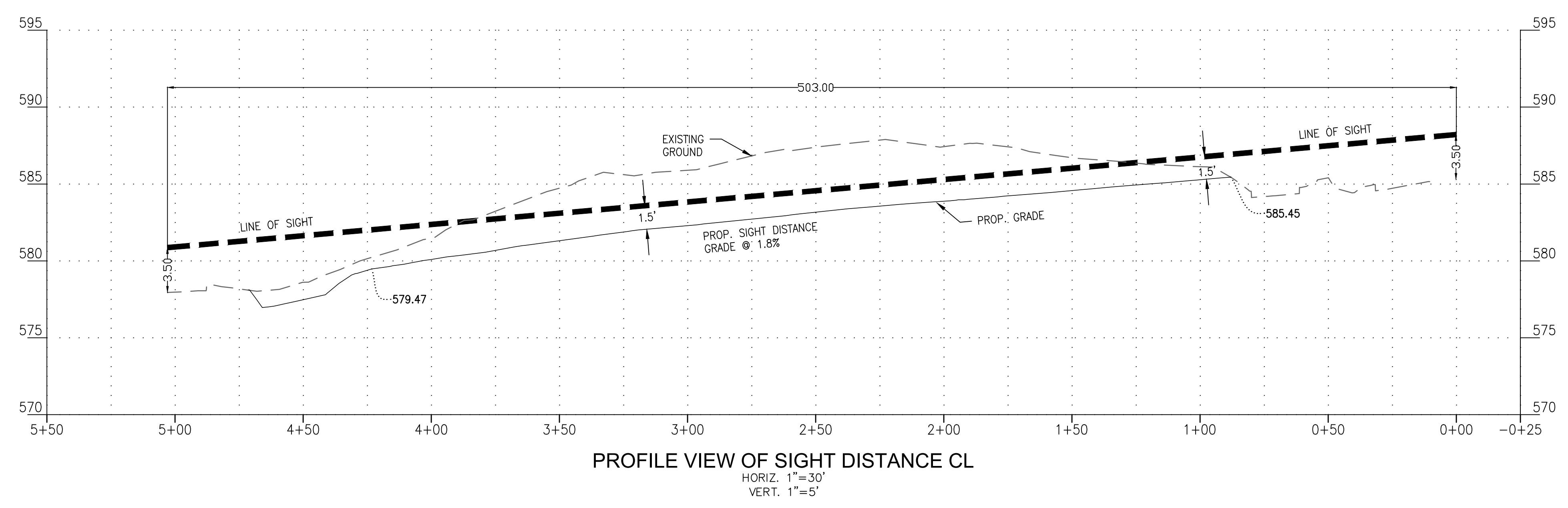
SHEET NO.
 3 OF 9

PROJECT NO.
 10-277

FILE PATH: K:\CADD\10-277 OAK RIDGE DR @ HALFWAY BLVD-SIGHT DISTANCE PLOT DRAWINGS\PROFILES AND DETAILS.DWG PLOT DATE: 10/5/2021 9:47 AM



SPECIFICATION 602	CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES STANDARD CURB OPENING DETAILS FOR CONCRETE CURB STANDARD NO. MD 640.01
APPROVED	 DIRECTOR - OFFICE OF PROJECT DELIVERY APPROVAL - SHA REVISIONS APPROVAL - FEDERAL HIGHWAY ADMINISTRATION APPROVAL 10-17-03 REVISION 8-9-04 APPROVAL 10-1-01 REVISION 8-2-04	



NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: LRB
DRAWN BY: LRB
CHECKED BY: PJM
DATE: OCT 2021

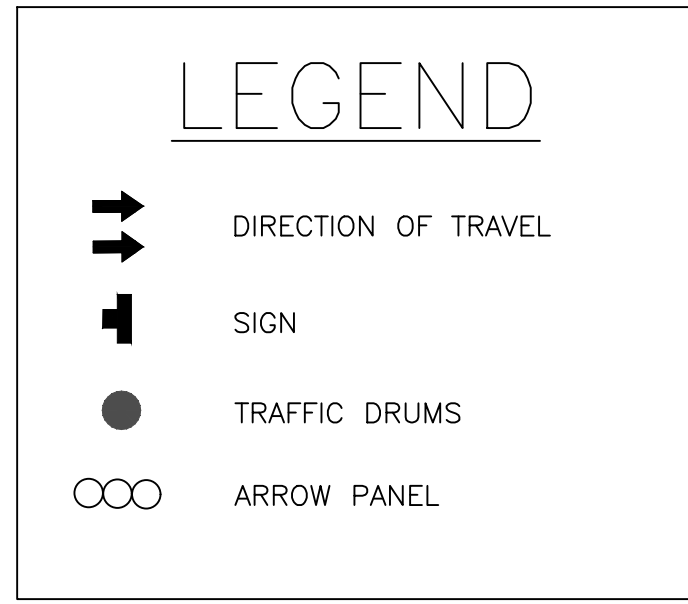
WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex Building
80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401

OAK RIDGE DR. AT HALFWAY BLVD.
SIGHT DISTANCE IMPROVEMENT
PROFILES AND DETAILS

SCALE AS NOTED
SHEET NO. 4 OF 9
PROJECT NO. 10-277

FILE PATH: K:\CADD\10-277 OAK RIDGE DR @ HALFWAY BLVD-SIGHT DISTANCE PLOT DRAWINGS\PHASE 1 MOT PLAN.DWG PLOT DATE: 10/11/2021 3:15 PM



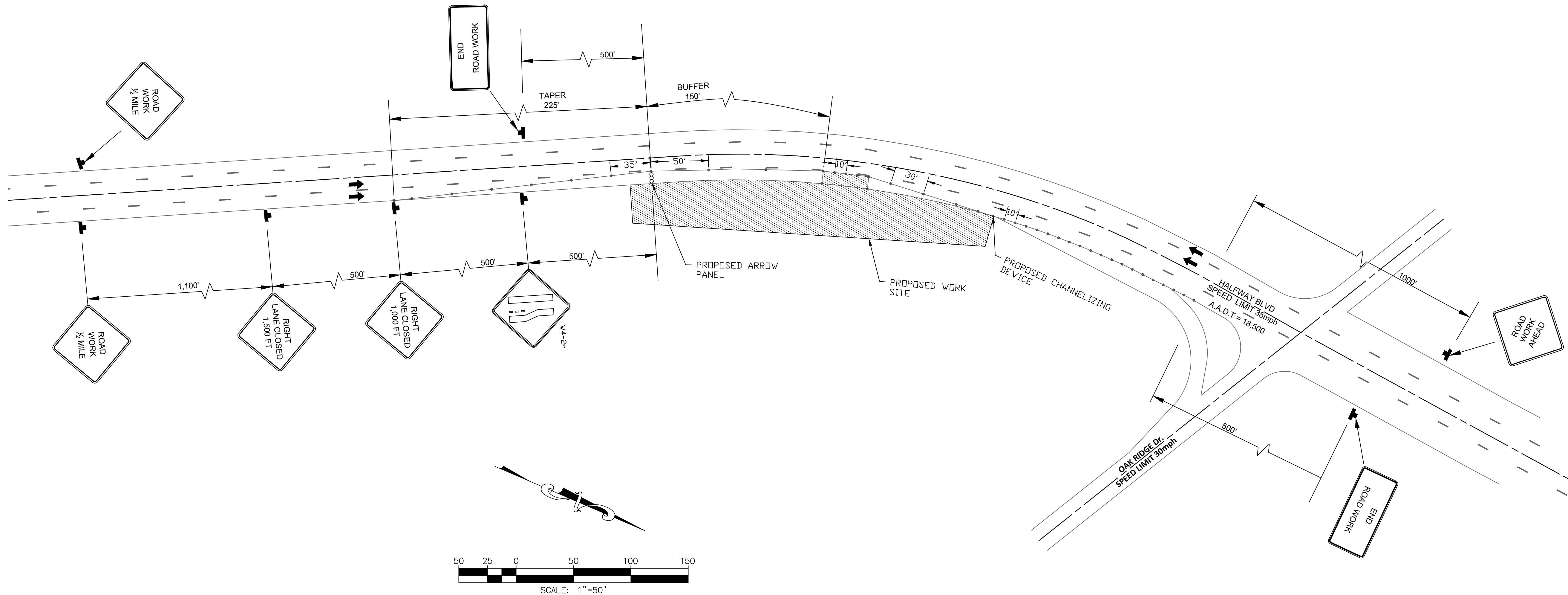
SEQUENCE OF CONSTRUCTION: (PHASE 1)

MD 104.03.06 (RIGHT LANE CLOSURE)

1. PLACE ALL SIGNS AND CHANNELIZING DEVICES AS PER DESIGN PLANS.

NOTES:

1. ALL EQUIPMENT AND/OR MATERIAL SHALL BE MOVED OFF THE ROADWAY AT THE END OF EACH DAY.
2. THE CONTRACTOR SHALL REMOVE, RESET OR COVER ANY EXISTING SIGN THAT IS NO LONGER APPLICABLE OR MIGHT CAUSE CONFUSION TO THE MOTORIST, AS DIRECTED BY THE ENGINEER.
3. ALL CONSTRUCTION SIGNS SHALL BE ORANGE WITH BLACK LETTERING, PER MUTCD.



DESIGNED BY: LRB	DRAWN BY: LRB	CHECKED BY: PJM	DATE: OCT 2021		
IND.	REVISION DESCRIPTION	BY	DATE		
WASHINGTON COUNTY, MARYLAND DIVISION OF ENGINEERING Washington County Administrative Annex, Building 30 W. Baltimore St., Hagerstown, MD 21740 Phone: 240-315-2460 Fax: 240-315-2401					
OAK RIDGE DR. AT HALFWAY BLVD. SIGHT DISTANCE IMPROVEMENT TRAFFIC CONTROL PLANS PHASE 1					
SCALE N.T.S.					
SHEET NO. 5 OF 9					
PROJECT NO. 10-277					

LEGEND

DIRECTION OF TRAVEL
 SIGN
 TRAFFIC DRUMS

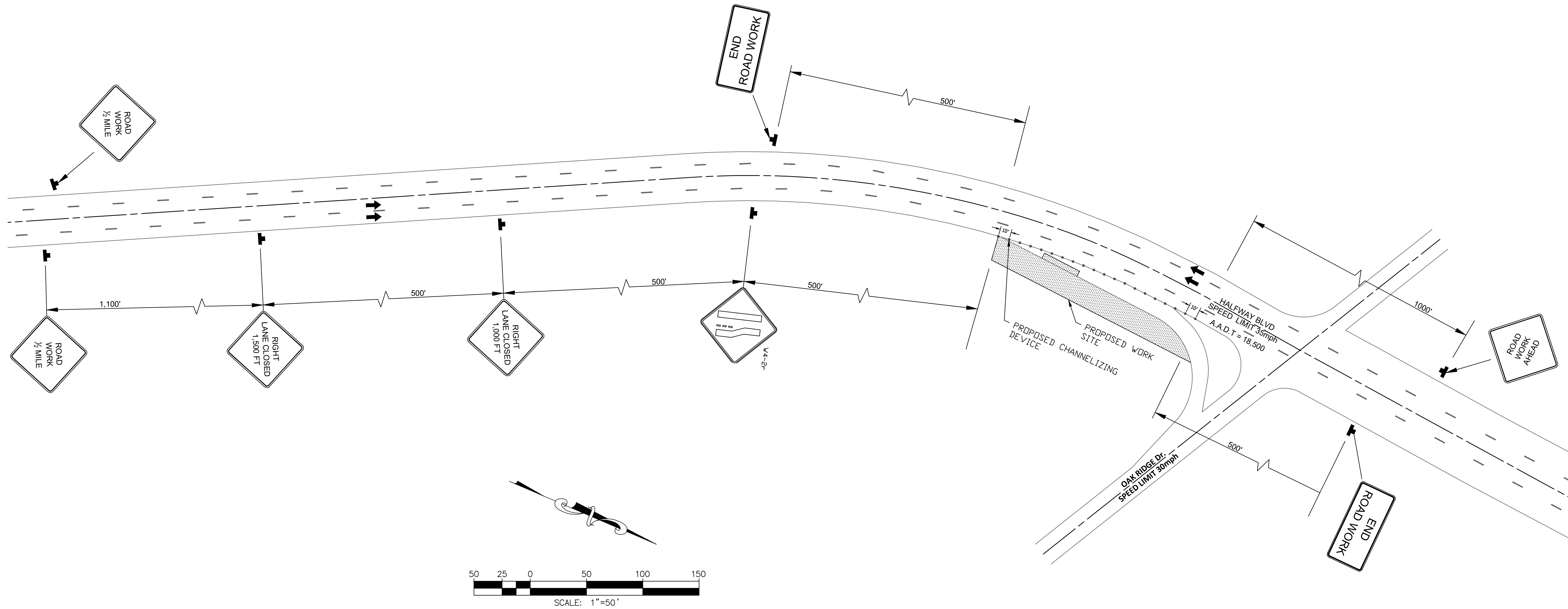
SEQUENCE OF CONSTRUCTION: (PHASE 2)

MD 104.03.06 (RIGHT LANE CLOSURE)

1. REMOVE AND RESET ALL SIGNS AND CHANNELIZING DEVICES AS PER DESIGN PLANS.

NOTES:

1. ALL EQUIPMENT AND/OR MATERIAL SHALL BE MOVED OFF THE ROADWAY AT THE END OF EACH DAY.
2. THE CONTRACTOR SHALL REMOVE, RESET OR COVER ANY EXISTING SIGN THAT IS NO LONGER APPLICABLE OR MIGHT CAUSE CONFUSION TO THE MOTORIST, AS DIRECTED BY THE ENGINEER.
3. ALL CONSTRUCTION SIGNS SHALL BE ORANGE WITH BLACK LETTERING, PER MUTCD.



OAK RIDGE DR. AT HALFWAY BLVD.
SIGHT DISTANCE IMPROVEMENT
TRAFFIC CONTROL PLANS
PHASE 2

WASHINGTON COUNTY, MARYLAND
 DIVISION OF ENGINEERING

 Washington County Administrative Annex, Building
 80 W. Baltimore St., Hagerstown, MD 21740
 Phone: 740-315-2460 Fax: 740-315-2401

NO.	REVISION DESCRIPTION	BY	DATE

SCALE
 N.T.S.
 SHEET NO.
 6 OF 9
 PROJECT NO.
 10-277

SMARTFENCE 42" INSTALLATION INSTRUCTIONS

SEDIMENT & PERIMETER CONTROL

STEP 1: EXCAVATE TRENCH

Excavate trench a maximum of 4" wide and 6" deep. The trench shall be hand-cleaned following excavation to remove bulky debris such as rocks, sticks, and soil clods.

STEP 2: PREPARE FENCE

Lay SMARTfence 42 out on the ground along the proposed fence line and next to the anchor trench. Reference NOTE ONE prior to beginning.

STEP 3: INSTALL INITIAL POST

3A) For the initial post, place the end of SMARTfence 42 along the post height and rotate the post 360 degrees, maintaining tension on the fabric. Secure the fence to the post at all four (4) orange-colored band locations with steel wire or nylon ties as per NOTE TWO.

3B) Drive the initial post (72" metal t-post) with the attached fence to a depth of 36" below surface.

STEP 4: INSTALL INTERIOR POSTS

Using spacing no greater than 6' on center, drive interior posts to 36" depth below surface and attach the fencing as you go (see NOTE ONE and SMARTfence detail on page 2).

To attach fencing, position SMARTfence 42 in front of the adjacent t-post, pulling the fencing tight and fasten it to the post at all four (4) orange-colored band locations (as per NOTE TWO). It is critical that SMARTfence 42 is pulled tight prior to attaching it to each interior post.

STEP 5: INSTALL FINAL POST

After the interior posts have been fastened, secure the fence to the final post by pulling the final section of fencing taut, and then rotating the post 360 degrees while maintaining tension on the fence system. Secure the fence to the post at all four (4) orange-colored band locations with the steel wire or nylon ties as per NOTE TWO. Drive the final post into the ground to a 36" depth below the surface.

STEP 6: BACKFILL TRENCH

Ensure bottom 8" of fabric has been placed in trench. Backfill trench (overflow) with soil placed around fabric. Compact soil backfill manually or via mechanical equipment such as the front wheel of a tractor, skid steer, roller, or other device (per Note 5 of ASTM D 6462 Standard Practice for Silt Fence Installation).

**Be careful not to damage the fabric during compaction (damaged fabric will not be replaced).

NOTE ONE - INSTALL SPECIFICATIONS:

SMARTfence 42 shall be installed using a 6' (72") metal t-post, 1.25 lbs per foot with a kick plate embedded 3' (36") deep on no more than 6' (72") centers (see detail on page 2).

NOTE TWO - SUPPLIES FOR ATTACHING FENCING:
To fasten SMARTfence 42 to studded, metal T-posts, use one of following methods:

- **Steel wire:** Wire-attach SMARTfence 42 to metal T-posts using 16-gage 304 SS wire with mitered ends, securing with safety pliers.

- **Nylon ties:** Puncture two 0.25" openings, spaced at a width apart that is roughly equivalent to the post width, and secure the fence to the post using 8" nylon heavy-duty cable ties (zip-ties) that are UV resistant and have a minimum 120-lb tensile strength.

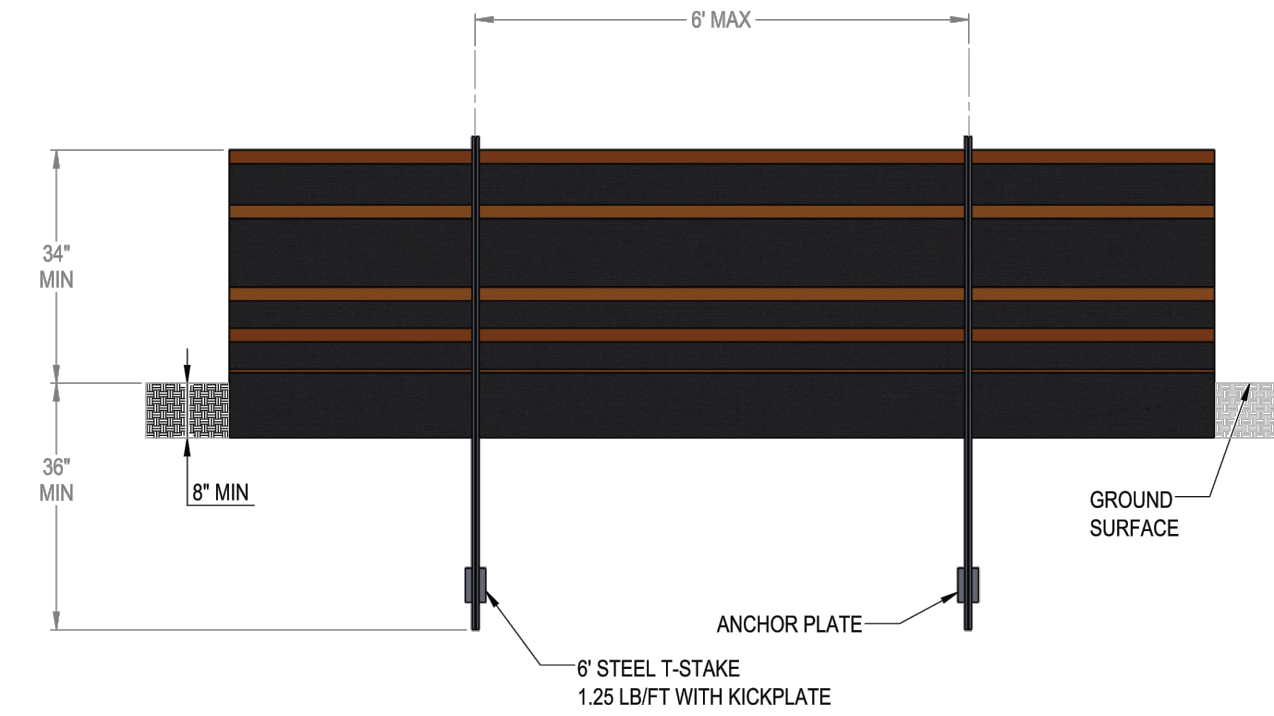
Please contact our team at
800-448-3636 or info@acfenv.com with
any questions regarding the installation
process.

SMARTfence

For more information, contact our Inside Sales team at 800.448.3636 email at info@acfenv.com



SMARTfence® 42 Detail:



SMARTfence® 42 is NTEP Compliant
GTX-2018-01-187

OR APPROVED EQUAL



800.448.3636
acfenvironmental.com

DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION		STANDARD SYMBOL
<p>ISOMETRIC VIEW</p>		TSSMS - * lb/ft ² (* INCLUDE SHEAR STRESS)
<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. 		
<p>MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL</p> <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION</p>		

DETAIL B-4-6-A TEMPORARY SOIL STABILIZATION MATTING CHANNEL APPLICATION		STANDARD SYMBOL
<p>ISOMETRIC VIEW</p>		TSSMC - * lb/ft ² (* INCLUDE SHEAR STRESS)
<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING. KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END. OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE NEXT DOWNSLOPE MAT. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. 		
<p>MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL</p> <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION</p>		

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE		STANDARD SYMBOL
<p>PROFILE</p> <p>PLAN VIEW</p>		SCE
<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE. 		
<p>MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL</p> <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION</p>		

OAK RIDGE DR. AT HALFWAY BLVD.
SIGHT DISTANCE IMPROVEMENT
SEDIMENT AND EROSION
CONTROL NOTES AND DETAILS

SCALE
NO SCALE

SHEET NO.
8 OF 9

PROJECT NO.
10-277

NO.	REVISION DESCRIPTION	BY	DATE

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex, Building
80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401



SEQUENCE OF CONSTRUCTION

NOTE:

THERE ARE SEVERAL STEPS IN THE SEQUENCE OF CONSTRUCTION BELOW, WHICH MAY RUN CONCURRENTLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENGAGE THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT (WCSD) FOR COORDINATION.

- PRIOR TO THE CLEARING OF ANY TREES, GRADING, OR INSTALLING SEDIMENT CONTROL MEASURES, THE CONTRACTOR IS TO CONTACT WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT (301) 797-6821 EXT. 3 AND THE WASHINGTON COUNTY DIVISION OF ENGINEERING AT (240) 313-2460 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF ANY EARTHWORK TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- THE LIMITS OF DISTURBANCE (LOD) MUST BE FIELD MARKED PRIOR TO CLEARING AND GRUBBING INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION OR OTHER LAND DISTURBING ACTIVITIES.
- CONTRACTOR TO CONTACT MISS UTILITY AT (800) 257-7777 48 HOURS PRIOR TO START OF CONSTRUCTION.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.
- INSTALL SMART FENCE 42" AS SHOWN ON PLAN. REFER TO SMART FENCE DETAIL FOR INSTALLATION ON SHEET 8.
- CLEAR AND GRUB WORK SITE WITHIN THE FIELD MARKED LIMITS OF DISTURBANCE (LOD).
- BEGIN WORK STARTING AT THE DOWNSTREAM END OF THE SWALE LOCATED AT STATION 3+65 OF THE SWALE ALIGNMENT AND CONTINUE TO WORK UPSTREAM GRADING SIDE SLOPES AND SWALE. PLEASE REFER TO PG. 3 OF THE DESIGN PLANS.
- ANY SOIL AND/OR BORROW MUST COME FROM OR GO TO A SITE HAVING A CURRENT AND APPROVED SOIL EROSION AND SEDIMENT CONTROL PERMIT.
- AT THE END OF EACH WORK DAY, STABILIZE SOIL BY SEEDING AND MULCHING TO ESTABLISH PERMANENT VEGETATION. WHEN SEEDING SWALE, USE TYPE A SOIL STABILIZATION MATTING FOR THE SIDE SLOPES AND CHANNEL OF THE SWALE. PLEASE REFER TO THE "PERMANENT SEEDING" AND "TEMPORARY SOIL STABILIZATION MATTING CHANNEL/SLOPE" NOTES AND DETAIL WITHIN THIS PLAN SET.
- NOTIFY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT (301) 797-6821, EXT. 3 AND THE WASHINGTON COUNTY DIVISION OF ENGINEERING AT (240) 313-2460 AT LEAST FIVE (5) DAYS PRIOR TO THE REMOVAL OF ANY SEDIMENT CONTROL DEVICES TO SCHEDULE A FINAL SITE CLOSEOUT REVIEW MEETING.
- ONCE THE SITE IS STABILIZED TO A UNIFORM 95% VEGETATIVE COVER OVER THE DISTURBED AREA HAS BEEN ESTABLISHED AND PERMISSION FROM THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT INSPECTOR IS GIVEN, REMOVE FINAL SEDIMENT CONTROL DEVICES.
- FINE GRADE REMAINING PORTIONS OF SITE AND STABILIZE ANY REMAINING DISTURBED AREAS.

STANDARD SEDIMENT AND EROSION CONTROL NOTES

- A PRE-CONSTRUCTION MEETING, INTERIM (WATER QUALITY) INSPECTION, AND A FINAL SITE CLOSE OUT REVIEW ARE REQUIRED FOR ALL PROJECTS WITH SOIL DISTURBANCES GREATER THAN 15,000 SQUARE FEET OR 500 CUBIC YARDS OF CUT OR FILL. CONTACT THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT 301-797-6821, EXT. 3 TO SCHEDULE THE REQUIRED MEETING OR INSPECTION.
- ALL SOIL EROSION/SEDIMENT CONTROL MEASURES, GRADING, STABILIZATION AND SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
- FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
 - 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
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITHIN THE SEVEN (7) DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION, STANDARD B-4-4 TEMPORARY STABILIZATION, AND B.5 LAND GRADING (AS APPLICABLE).
- ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN THREE (3) DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN THREE (3) DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- NO SLOPE SHALL BE GREATER THAN 2:1.
- 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 RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL.
- TEMPORARY SEEDING SHALL BE IN COMPLIANCE WITH SECTION B-4-4, STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION, OF THE 2011 MARYLAND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- PERMANENT SEEDING SHALL BE IN COMPLIANCE WITH SECTION B-4-5, STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION, OF THE 2011 MARYLAND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.

STANDARD UTILITY NOTES

- CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
- CONTRACTOR TO PLACE EXCAVATED MATERIALS IN A DUMP TRUCK AND HAULED TO AN APPROVED LOCATION TO WASTED MATERIALS TO PAVED AREAS.
- CONTRACTOR TO BACKFILL TRENCH WITH APPROVED MATERIALS AND STABILIZE DISTURBED AREAS THE SAME WORKING DAY.
- IN AREAS WHERE THE CONSTRUCTION TAKES 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.
- IF DEWATERING OF THE TRENCH IS REQUIRED, CONTRACTOR TO PUMP WATER TO A FILTER BAG TO DEWATER.
- CONTRACTOR TO SWEEP STREETS OF ANY DEBRIS OR SEDIMENTS CAUSED BY CONSTRUCTION OPERATIONS AND DISPOSE OF AT AN APPROVED LOCATION.
- CONTRACTOR TO STABILIZE ALL DISTURBED AREAS WITH SEED & MULCH OR APPROPRIATE STREET REPAIR.

SOIL EROSION, SEDIMENT CONTROL & SEEDING NOTES

- 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.
- 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.
- 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.
- 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.
- FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
 - 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
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- 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).
- 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.
- 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.
- ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- NO SLOPE SHALL BE GREATER THAN 2:1.
- 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.

FOR SITES 1.0 ACRE OR MORE, THE FOLLOWING ARE REQUIRED:

- MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH A CONSTRUCTION ACTIVITY, NPDES PERMIT NUMBER MDR10, STATE DISCHARGE PERMIT NUMBER 09GP, OR AN INDIVIDUAL PERMIT.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - NOI) APPLICATION AND PERMIT SHALL BE POSTED AND/OR AVAILABLE ON-SITE AT ALL TIMES.
- DURING CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) SHALL BE INSPECTED AND RECORDED ON THE "STANDARD INSPECTION FORM", "GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY" PER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - NOI).
- FOLLOWING CONSTRUCTION AND RELEASE OF THE SIGHT FOR SOIL EROSION AND SEDIMENT CONTROL BY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT, I.E., ALL PORTIONS OF A SITE HAVE BEEN PERMANENTLY STABILIZED, AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE AUTHORIZED PERMITTEE SHALL SUBMIT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL/INDIVIDUAL PERMIT - NOTICE OF TERMINATION-NOT.

TEMPORARY SEEDING SUMMARY						
HARDINESS ZONE (FIGURE B.3): 6a & 6b						
SEED MIXTURE (TABLE B.1)					FERTILIZER RATE (10-20-20)	LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS		
1	Barley	96	Zone 6a: Mar 15-May 31/ Aug 1-Sept 30 Zone 6b: Mar 1-May 15/Aug 1-Oct 15	1"	436 lb/ac. (10 lb/1000 s.f.)	2 tons/ac. (90 lb/1000 s.f.)


PERMANENT SEEDING SUMMARY								
HARDINESS ZONE (FIGURE B.3): 6a & 6b								
SEED MIXTURE (TABLE B.1)					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTH	N	P205	K20	
6	Tall Fescue	40	Zone 6a: Mar 15-May 31/ Jun 1-Jun 15 Zone 6b: Mar 1-May 15/Aug 1-Oct 15	1/4"-1/2"	45 lb/ac. (1 lb/1000 s.f.)	90 lb/ac. (2 lb/1000 s.f.)	90 lb/ac. (2 lb/1000 s.f.)	2 tons/ac. (90 lb/1000 s.f.)
	Perennial Ryegrass	25						
	White Clover	5						

NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: LRB
DRAWN BY: LRB
CHECKED BY: PJM
DATE: OCT 2021

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING

Washington County Administrative Annex Building
80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401



**OAK RIDGE DR. AT HALFWAY BLVD.
SIGHT DISTANCE IMPROVEMENT
SEDIMENT AND EROSION
CONTROL NOTES AND DETAILS**