

IMPROVEMENT PLANS IRISHTOWN ROAD

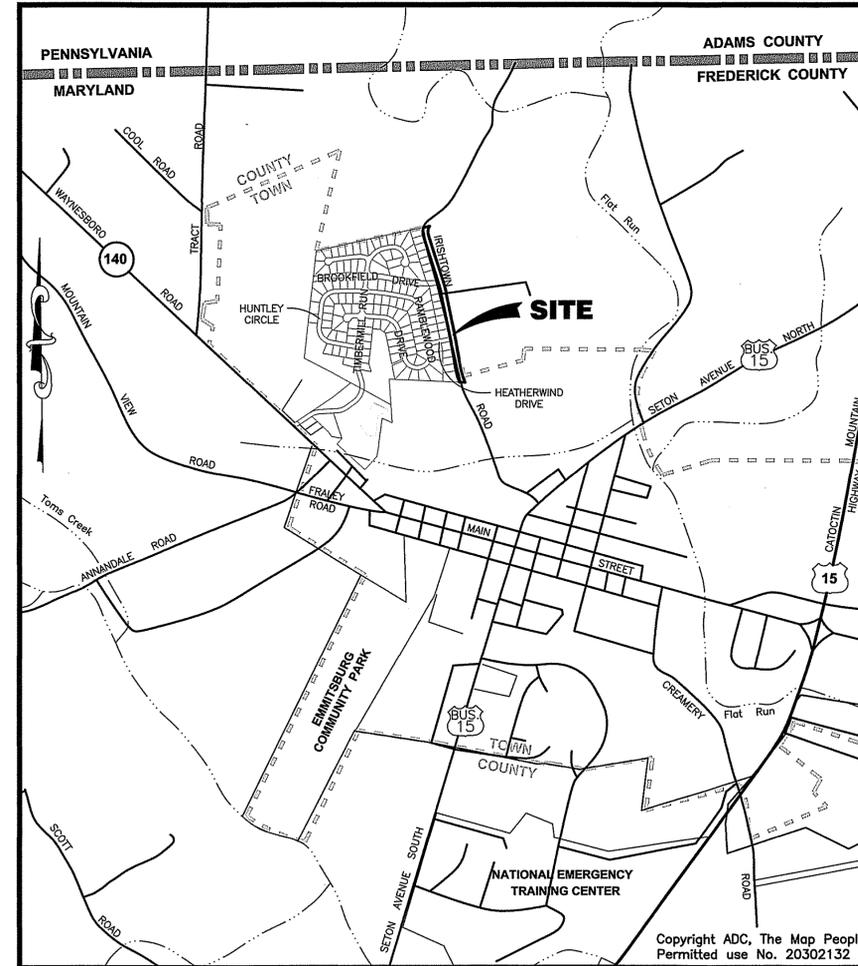
EMMITSBURG, MARYLAND
FREDERICK COUNTY PROJECT #

GENERAL NOTES

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE CATOCTIN & FREDERICK SOIL CONSERVATION DISTRICT AND THE "GENERAL CONDITIONS AND STANDARD SPECIFICATIONS FOR WATER MAINS, SANITARY SEWERS AND RELATED STRUCTURES", FREDERICK COUNTY, MARYLAND AND THE STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
- JOB SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL TEST PIT IN THE AREA OF KNOWN UTILITIES TO VERIFY SIZE, ELEVATION, LOCATION AND TYPE PRIOR TO PERFORMING ANY WORK. ANY UTILITY WHETHER SHOWN OR NOT, THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE OWNER IS TO BE NOTIFIED IMMEDIATELY. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT THE AUTHORIZATION OF THE OWNER, THEN THE CONTRACTOR ASSUMES THE RESPONSIBILITY FOR SAID CORRECTIONS OR ADJUSTMENTS.
- HORIZONTAL CONTROL IS BASED ON INFORMATION SUPPLIED BY WORLEY SURVEYING. BEARINGS AND DISTANCES ARE IN AGREEMENT WITH SURVEY PREPARED BY FOX AND ASSOCIATES, INC. VERTICAL CONTROL IS BASED UPON SANITARY SEWER DATUM AT MANHOLE #83 421.20, SUPPLIED BY TOWN OF EMMITSBURG PUBLIC WORKS DEPARTMENT. EXISTING TOPOGRAPHY IS BASED UPON FIELD RUN TOPOGRAPHIC SURVEY BY FOX & ASSOCIATES, INC. DECEMBER 2017.
- CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777), FREDERICK COUNTY DIVISION OF ENVIRONMENTAL COMPLIANCE SECTION (ECS) (301-600-3507) AND TOWN OF EMMITSBURG (301-600-6300) 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
- FOX & ASSOCIATES, INC. HAS PERFORMED NO SUBSURFACE INVESTIGATION TO DETERMINE LOCATIONS OF ROCK, DIFFERENT SOIL TYPES, WATER TABLE, UTILITIES, ETC. VARIOUS SUBSURFACE INVESTIGATIONS HAVE BEEN PERFORMED BY SPECIALIZED ENGINEERING. THEY WERE INDEPENDENTLY CONTRACTED BY THE OWNER/DEVELOPER. GEOTECH REPORT BY SPECIALIZED ENGINEER TITLED "SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION, THREE SWM PONDS" DATED APRIL 25, 2007. ALL GEOTECHNICAL ENGINEERING REPORTS HAVE BEEN INCLUDED IN RELATIVE COMPUTATION PACKAGES.
- ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FREDERICK COUNTY DEPARTMENT OF PUBLIC WORKS AND STATE HIGHWAY ADMINISTRATION'S STANDARDS, SPECIFICATIONS, AND DETAILS AND THE FREDERICK COUNTY PLUMBING CODE.
- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FREDERICK COUNTY "GENERAL CONDITIONS AND STANDARD SPECIFICATIONS" FOR WATER MAINS, SANITARY SEWER AND RELATED STRUCTURES, AND THE "STANDARD DETAILS" FOR WATER MAINS, SANITARY SEWER AND RELATED STRUCTURES.
- THE CONTRACTOR MUST NOT OPERATE VALVES, TAP OR OTHERWISE PENETRATE EXISTING WATER OR SEWER MAINS WITHOUT APPROVAL OF THE TOWN OF EMMITSBURG. WATER SERVICE SHUT-OFFS/TURN-ONS AND WATER METER REMOVAL AND REPLACEMENTS MUST BE COORDINATED WITH THE TOWN OF EMMITSBURG. 24 HOURS PRIOR TO WATER SHUT DOWN, NOTIFY RESIDENTS OF THE LENGTH OF TIME OF THE SHUT DOWN.
- CONTACT FOX & ASSOCIATES, INC. PRIOR TO MAKING PLAN MODIFICATIONS. ALL FIELD MODIFICATIONS ARE TO BE APPROVED BY ENGINEER AND INSPECTOR.
- ALL UTILITIES SHALL HAVE MINIMUM SEPARATION OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL. MINIMUM HORIZONTAL SEPARATION BETWEEN SEWER AND ALL UTILITIES SHALL BE 10 FEET.
- A SIX FOOT (6") DRAINAGE AND UTILITY EASEMENT IS RESERVED ALONG ALL LOT LINES.
- DEVELOPER OR HOME BUILDER SHALL SLEEVE ALL WATER SERVICES UNDER DRIVEWAYS WITH 1 1/2 INCH DIAMETER SCHEDULE 40 PVC PIPE.
- CONTRACTOR IS RESPONSIBLE TO AVOID SPILLAGE OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER PLOGGING, CONTAINMENT AND PUMPING EQUIPMENT NECESSARY TO AVOID SPILLAGE. CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING WATER MAINS.
- EXCAVATION WITHIN A COUNTY ROAD RIGHT-OF-WAY WILL NOT BE ALLOWED WITHOUT OBTAINING A PERMIT FROM THE FREDERICK COUNTY DIVISION OF PUBLIC WORKS FOR THE INSTALLATION OF UTILITIES, STORM DRAINS, ETC.
- SPILLAGE OF RAW SEWAGE IS PROHIBITED.
- STORMWATER MANAGEMENT IS PROVIDED BY THE EXISTING REGIONAL FACILITY. REFER TO PLANS BY FOX & ASSOCIATES, INC. TITLED "STORMWATER MANAGEMENT PLANS FOR BROOKFIELD SUBDIVISION" APPROVED BY S.C.D. #2501 AND BY FREDERICK COUNTY ON 7/20/11 #IP 162.
- ALL SANITARY SEWER LINES SHALL BE POLYVINYL CHLORIDE (PVC) SDR-35. SEWER PIPE DEEPER THAN 14-FEET TO BE PVC SDR-26.
- ALL 2", 3" & 4" WATERLINES TO BE HDPE. 6" WATERLINES TO BE D.I. CL. 54. 8" & 10" WATERLINES TO BE D.I. CL. 52. ALL WHC TO BE 1" FREDERICK COUNTY STANDARD DETAIL #110.1. ALL RAW WATER VALVE COVERS SHALL READ "RAW WATER".
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2' OF COVER ON ALL STORM DRAIN PIPES SUBJECTED TO CONSTRUCTION TRAFFIC.
- ANY NECESSARY ADJUSTMENTS TO EXISTING MANHOLES, VALVE BOXES, ETC., ARE TO BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING FENCES, DRIVEWAYS, SIGNS, DRAINAGE PIPES, MAILBOXES, SHRUBS, TREES, ETC. DAMAGED OR REMOVED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE SEWER AND STORM DRAINAGE SYSTEM FOR THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTY OWNERS AT ALL TIMES. THE CONTRACTOR, WITH OWNER APPROVAL, WILL COORDINATE WITH PROPERTY OWNERS IF ACCESS MUST BE INTERRUPTED FOR SHORT TIME PERIODS.
- ALL WETLAND DELINEATION AND PERMITTING FOR THE BROOKFIELD SUBDIVISION HAS BEEN PERFORMED BY CONSULTANTS OTHER THAN FOX & ASSOCIATES, INC. UNDER DIRECT CONTRACT WITH THE DEVELOPER. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NECESSARY WETLAND PERMITS HAVE BEEN OBTAINED BEFORE BEGINNING CONSTRUCTION. PLEASE SEE PLANS BY FOX & ASSOCIATES, INC. - RE-APPROVED BY THE FREDERICK COUNTY SCD ON 5/3/04 & FREDERICK COUNTY DPW ON 7/3/01. REFERENCE TO FOX & ASSOCIATES INC. DWG #0-01-A. NO WETLANDS EXIST IN THIS SECTION.
- THE 100-YR FLOODPLAIN WITHIN THE PROJECT LIMITS OF THIS SECTION TAKEN FROM FLOOD INSURANCE RATE MAP PANEL NO. 24021C0055D, SEPTEMBER 19, 2007.
- FIRE HYDRANT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH D.O.S. REQUIREMENTS. ALL PRIVATE DRIVE AISLES SHALL BE MARKED AS FIRE LANES WITH NO PARKING. FIRE LANES SHALL BE PAINTED TRAFFIC YELLOW AND APPROVED SIGNS SHALL BE POSTED EVERY 75 FEET MAXIMUM.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED ROADWAY SIGNS, BARRICADES, STRIPING AND PAVEMENT MARKINGS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL MATERIALS EXCAVATED WHICH IS UNSUITABLE FOR BACKFILL SHALL BE DISPOSED OF AT AN APPROVED LOCATION.
- PLACEMENT OF ANY CONCRETE WORK SUCH AS CURB/GUTTER/SIDEWALKS/DRIVEWAY APRONS/ETC. SHALL BE COMMENCED ONLY AFTER THE RELOCATIONS AND/OR INSTALLATION OF ALL UTILITIES AND UTILITY CROSSINGS INCLUDING GAS LINES/ELECTRICAL LINES/STREET LIGHTING CONDUITS/CONDUITS/TELEVISION CABLE/WATER AND SEWER LINES/ETC. ARE IN PLACE.
- PAVING, CURB AND GUTTER AND FINE GRADING CONTRACTOR(S) SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE WITHIN ALL PROPOSED WORK AREAS AT ALL TIMES.
- ANY BLASTING REQUIRED FOR SITE CONSTRUCTION SHALL REQUIRE THE CONTRACTOR TO OBTAIN PROPER PERMITS AND PERFORM BLASTING OPERATIONS IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS.
- ALL LOTS SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL, SEEDED AND MULCHED.
- THE PROPERTY ADDRESSES AND STREET SIGNS SHALL BE FABRICATED AND POSTED IN ACCORDANCE WITH THE FREDERICK COUNTY PREMISE IDENTIFICATION ORDINANCE #05-01-362.
- ALL SIGNING, MARKING, LIGHTING, GUARDRAIL/END TREATMENTS, AMONG OTHER DESIGN ELEMENTS, ARE DESIGNED BASED ON CONDITIONS REPRESENTED ON THE PLANS ARE SUBJECT TO CHANGE (BASED ON FIELD CONDITIONS), AS DIRECTED BY THE COUNTY INSPECTOR. ANY CHANGE DEEMED SIGNIFICANT BY THE INSPECTOR SHALL, IF NECESSARY, DIRECT THE DESIGN ENGINEER TO RESUBMIT THE PLANS TO DPDR AS A REVISION FOR APPROVAL.
- EXCAVATION WITHIN A STATE ROAD RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS IN THE PERMIT ISSUED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA). CONTRACTOR TO BE LISTED AS "TRAFFIC CONTROL MANAGER" AND ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST S.H.A. STANDARDS. IN ACCORDANCE WITH CODE OF MARYLAND (COMAR) 26.04.01.33, MATERIALS USED IN THE MANUFACTURE OF PUBLIC WATER SUPPLY COMPONENTS, APPURTENANCES, PIPE, STORAGE TANK, VALVE, FIXTURE, OR OTHER MATERIALS WHICH COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY MUST MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NATIONAL SANITATION FOUNDATION (NSF 61 NAD NSF 372) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES. THIS APPLIES TO ANY PRODUCT WHICH COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY.
- SIGNAGE MARKING AND SPECIFICATIONS SHALL COMPLY WITH APPENDIX B OF "COUNTY GUIDANCE FOR TRAFFIC CONTROL DEVICES, STREET LIGHTS AND STREET TREES FOR NEW DEVELOPMENT".
- ALL SSC'S MUST BE BETWEEN 2 - 5%.
- STORMWATER MANAGEMENT IS PROVIDED BY THE EXISTING REGIONAL FACILITY. REFER TO PLANS BY FOX & ASSOCIATES, INC. TITLED "STORMWATER MANAGEMENT PLANS FOR BROOKFIELD SUBDIVISION" APPROVED BY S.C.D. #2501 AND BY FREDERICK COUNTY ON 7/20/11 #IP 162.

SHEET INDEX

SHEET No.	DESCRIPTION
1	COVERSHEET
2	EXISTING CONDITIONS PLAN
3	PAVING PLAN & PROFILE STA. 50+00 TO STA. 59+75
4	PAVING PLAN & PROFILE STA. 10+00 TO STA. 20+46.10
5	STRIPING AND SIGNAGE PLAN
6	PAVING NOTES AND DETAILS
7	UTILITY PLAN & PROFILE STA. 50+00 TO STA. 59+75
8	UTILITY PLAN & PROFILE STA. 10+00 TO STA. 20+46.10
9	UTILITY NOTES AND DETAILS
10	GRADING, STORM DRAIN AND SEDIMENT CONTROL PLAN
11	GRADING DETAIL PLAN
12	STORM DRAIN PROFILES
13	SEDIMENT CONTROL NOTES AND DETAILS
14	SEDIMENT CONTROL NOTES AND DETAILS



VICINITY MAP

SCALE : 1" = 1000'
TAX MAP 3 PARCEL 91

DISTURBED AREA QUANTITY

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 159,935 SQ. FT. AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY CU. YDS. * OF EXCAVATION AND APPROXIMATELY CU. YDS. * OF FILL.

J.H.M. 7/14/2020
JOSEPH H. CEGLI, P.E. REG. NO. 30709 DATE

* THESE QUANTITIES ARE APPROXIMATE AND SHALL NOT BE USED BY THE CONTRACTOR FOR BIDDING PURPOSES.

ENGINEER 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, 26.17.02 AND THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

J.H.M. 7/14/2020
JOSEPH H. CEGLI REG. NO. 30709 DATE

PROFESSIONAL CERTIFICATION

STATE OF MARYLAND
JOSEPH H. CEGLI
REGISTERED PROFESSIONAL ENGINEER
NO. 30709
7/14/2020

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

LICENSE NO. 30709 EXP. DATE: 7/23/22

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MANAGER _____ DATE _____

**FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL**

By: _____
Date: _____

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.
(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

OWNERS / DEVELOPERS CERTIFICATION

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

J.H.M. 7/14/2020
OWNER/DEVELOPER _____ DATE _____

PREPARED BY

FOX & ASSOCIATES, INC.

ENGINEERS • SURVEYORS • PLANNERS

881 MT. AETNA ROAD
HAGERSTOWN, MD. 21740
PHONE: (301)733-8503
or (301)416-7250
FAX: (301)733-1853
WWW.FOXASSOCIATESINC.COM Email: FOX@FREDERICK.FOXASSOCIATESINC.COM

82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301)955-0880
FAX: (301)293-6009
PHONE: 410-365-0414



OWNER:
RJD DEVELOPMENT CORPORATION
P.O. BOX 228
CLARKSVILLE, MD. 21029
C/O RICHARD DEMMITT
PHONE: 410-365-0414

CDD - Dev. Review

File: _____
A / P #: _____
Due Date: _____

PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: RND
CHECKED BY: JEM
SHEET 1 OF 14

FOX & ASSOCIATES, INC.
ENGINEERS-SURVEYORS-PLANNERS
82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301)733-8603
or (301)416-7250
FAX: (301)733-1653
WWW.FOXASSOCIATESINC.COM EMAIL: FOX@FOXASSOCIATESINC.COM

DRAWN BY: _____
REVISION: _____
DATE: _____

**EXISTING CONDITIONS PLAN
IRISHTOWN ROAD**

SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT NO. 5
FREDERICK COUNTY, MARYLAND

SCALE: 1" = 50'

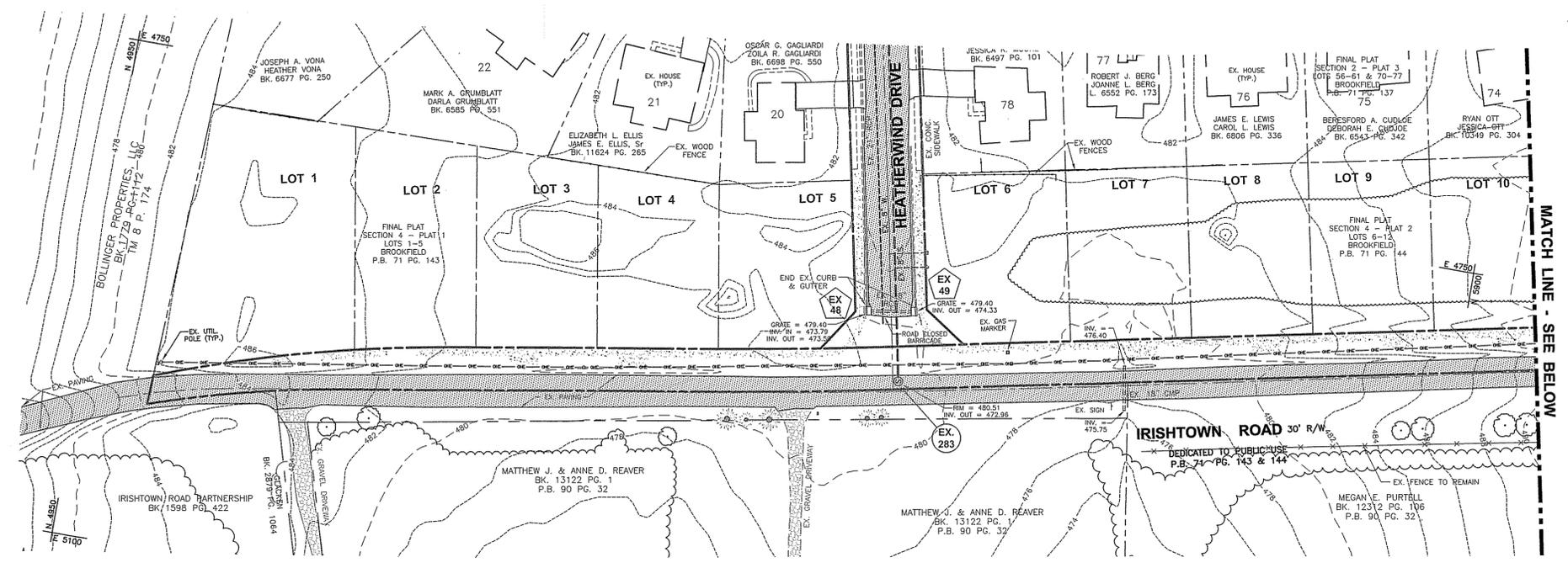
PROFESSIONAL CERTIFICATION



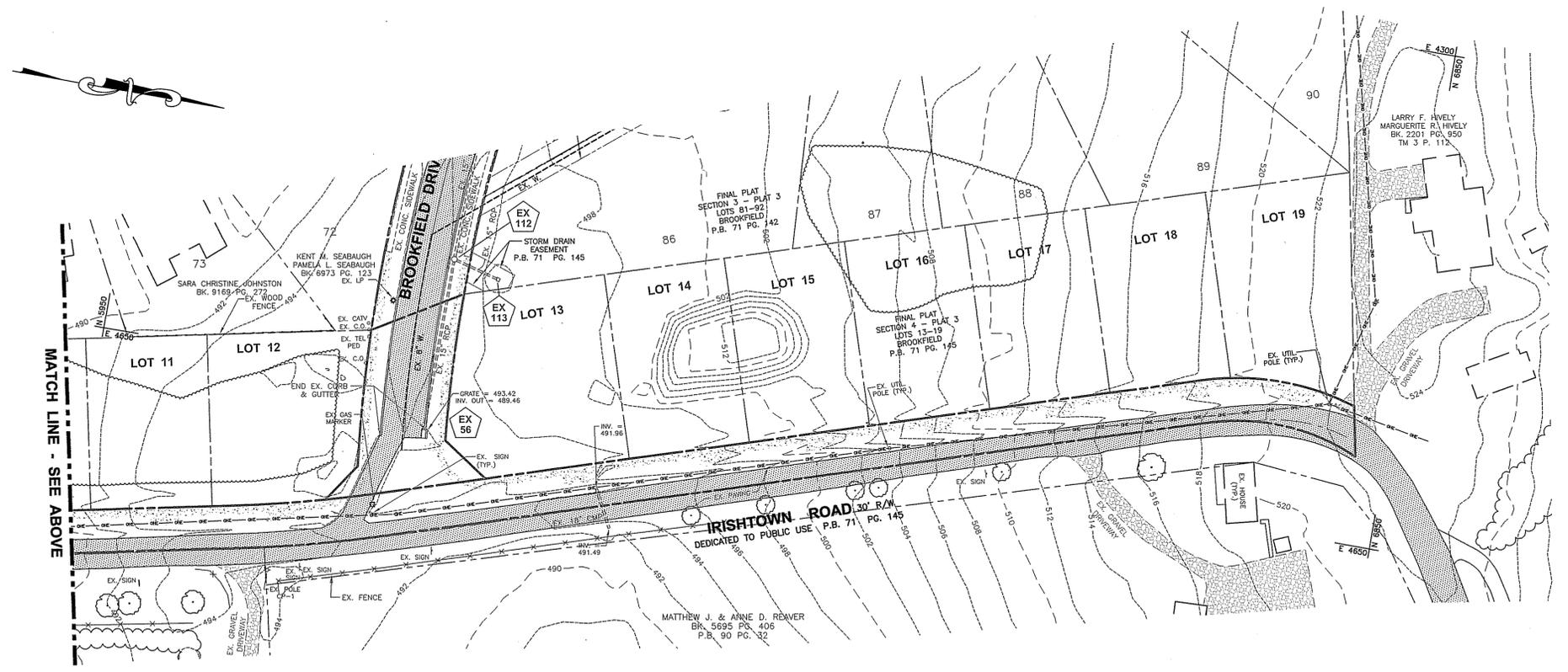
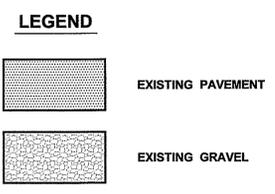
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 90709 EXP. DATE: 7/23/22
PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

SHEET 2 OF 14

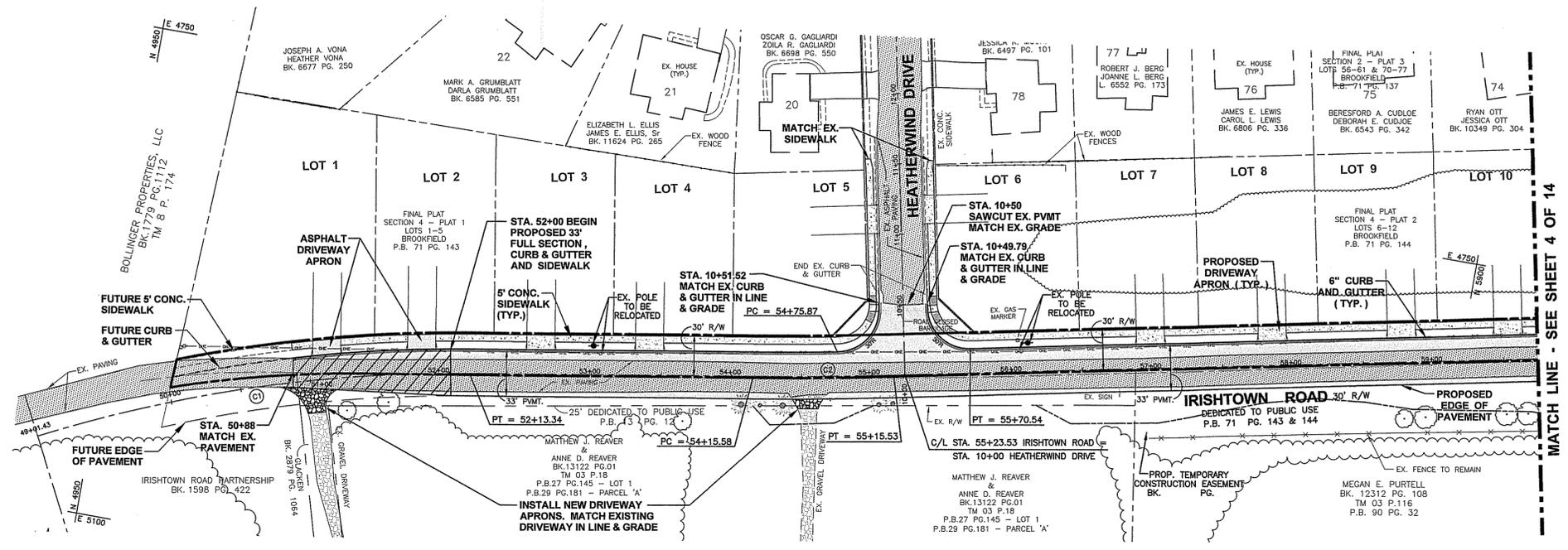
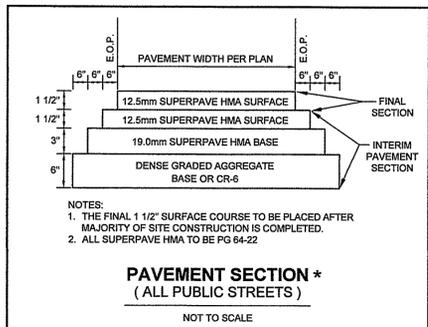


MATCH LINE - SEE BELOW



MATCH LINE - SEE ABOVE

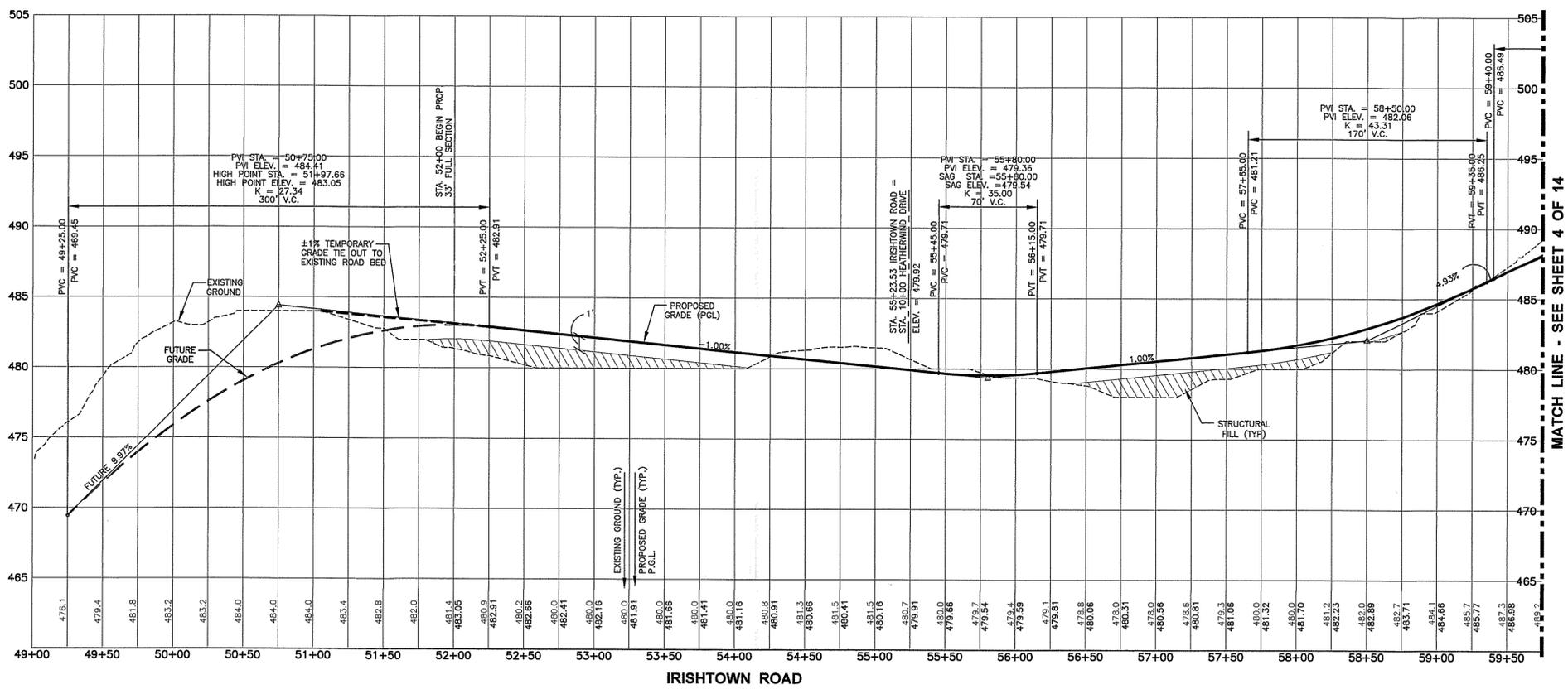
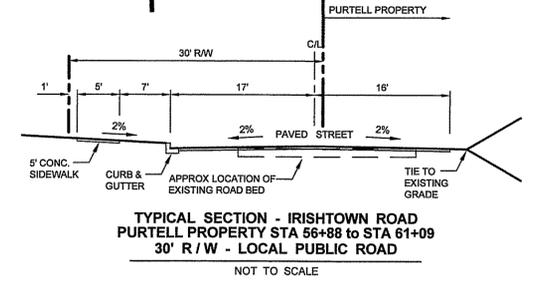
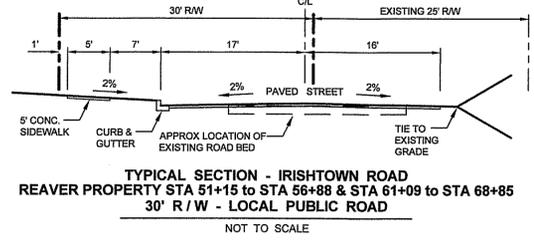
CURVE	RADIUS	LENGTH	DELTA	TANGENT	BEARING	CHORD
C1	1001.00'	311.91'	17°51'33"	157.23'	N14°28'08"W	310.05'
C2	2765.91'	99.99'	2°04'14"	49.98'	N10°34'39"W	99.99'



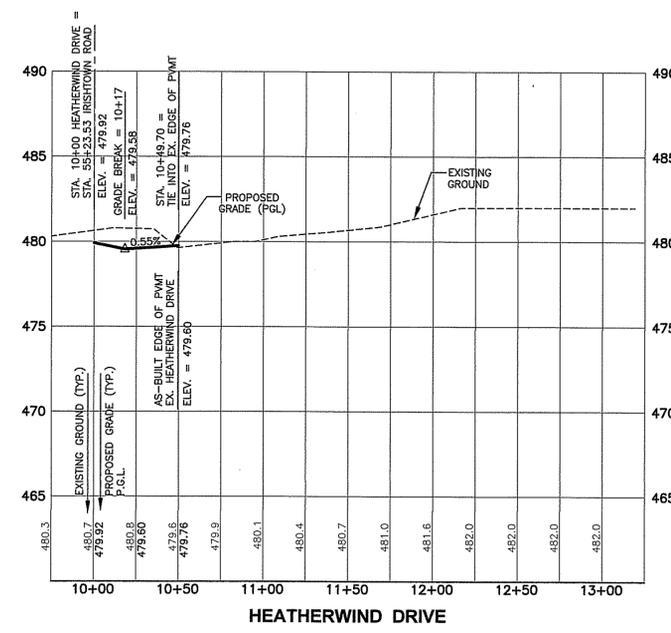
NOTE: A TEMPORARY PAVING TRANSITION IS REQUIRED UP TO STA. 50+87.52 UNTIL SUCH TIME AS IRISHTOWN ROAD IS RECONSTRUCTED SOUTH OF STA. 52+00.

SCALES
PLAN: 1" = 30'
PROFILE: HORIZ. - 1" = 30'
VERT. - 1" = 3'

POSTED SPEED LIMIT 25 MPH



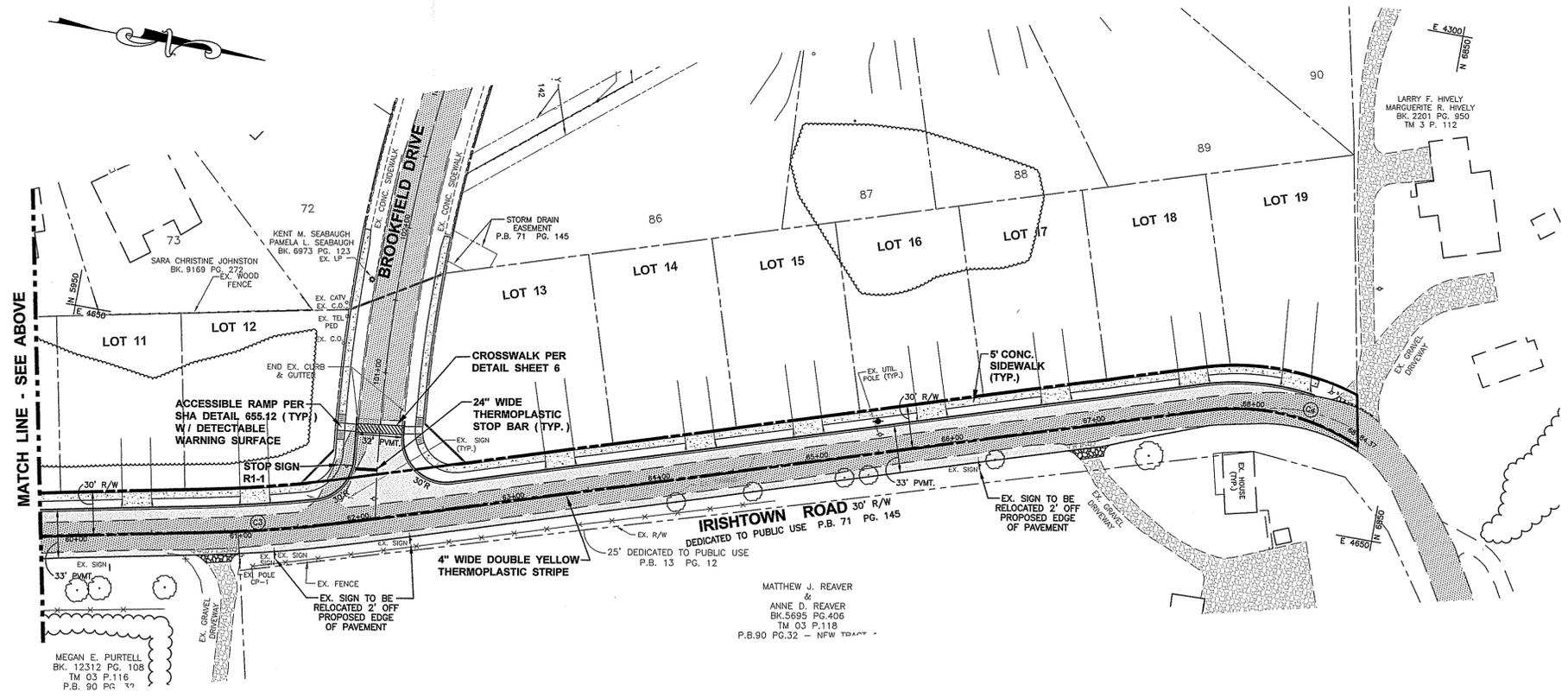
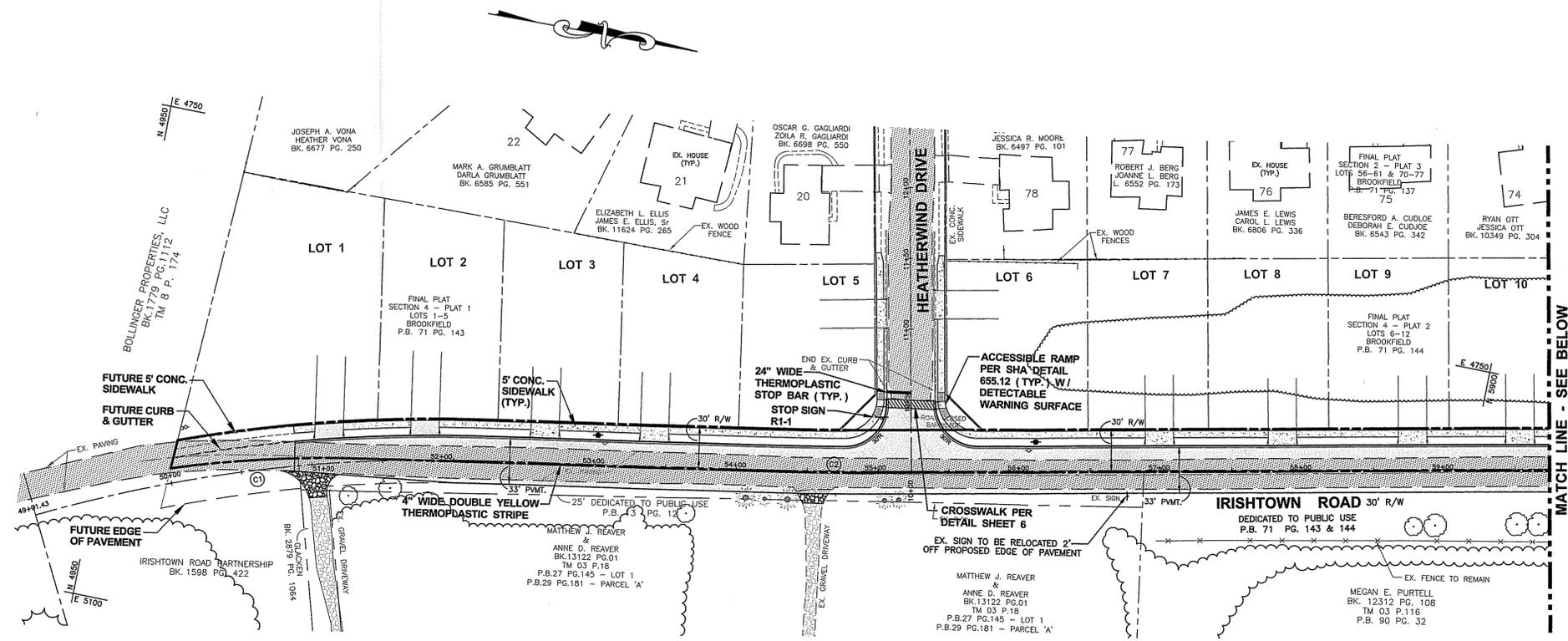
STRUCTURAL FILL NOTE:
STRUCTURAL FILL SHALL BE COMPACTED TO 97% MAX. DRY DENSITY FOR TOP 1" OF MATERIAL AND 95% MAX. DRY DENSITY BELOW 1" PER ASTM T-180 OR AS RECOMMENDED BY PROJECT GEOTECHNICAL ENGINEER.



PAVING PLAN & PROFILE
IRISHTOWN ROAD
STA. 50+00 TO STA. 59+75
SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT NO. 5
FREDERICK COUNTY, MARYLAND

SCALE: AS SHOWN
PROFESSIONAL CERTIFICATION
STATE OF MARYLAND
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.
PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

FOX & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301)733-8503
or (301)416-7250
FAX: (301)293-6009
WWW.FOXASSOCIATESINC.COM EMAIL: FOX@FOXASSOCIATESINC.COM



STRIPING AND SIGNAGE PLAN
IRISHTOWN ROAD

SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT No. 5
FREDERICK COUNTY, MARYLAND

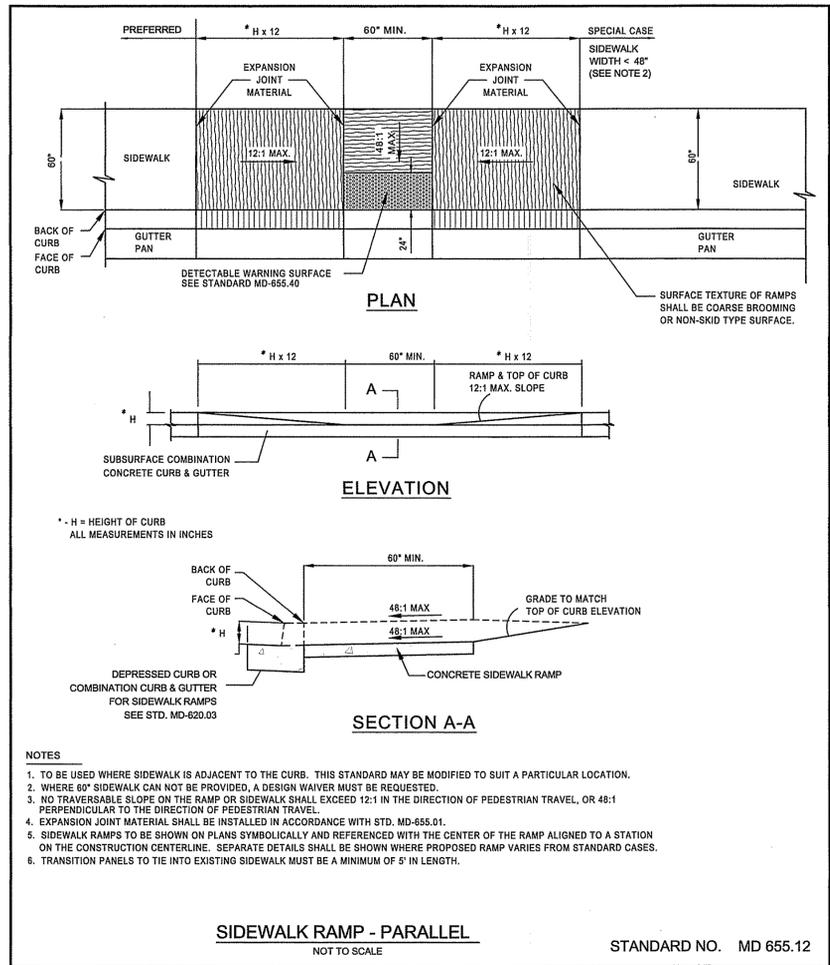
SCALE: 1" = 50'



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.: 1850891 EXP. DATE: 7/25/22
PROJECT NO.: D-3501
DRAWING NO.: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

H:\CARLSON PROJECTS\1850891 Highland Development Cooper\MD-01.dwg, 9/24/2020 2:17:52 PM, CFAR0076, EJ

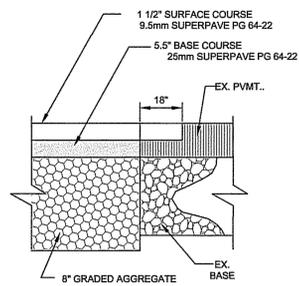


NOTES

1. TO BE USED WHERE SIDEWALK IS ADJACENT TO THE CURB. THIS STANDARD MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
2. WHERE 60" SIDEWALK CAN NOT BE PROVIDED, A DESIGN WAIVER MUST BE REQUESTED.
3. NO TRAVERSIBLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
4. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
5. SIDEWALK RAMP TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.
6. TRANSITION PANELS TO TIE INTO EXISTING SIDEWALK MUST BE A MINIMUM OF 5' IN LENGTH.

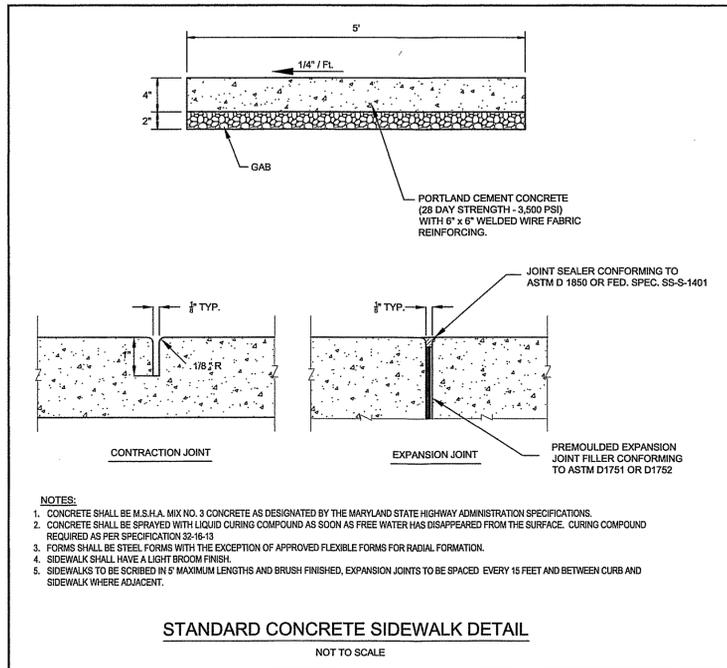
SIDEWALK RAMP - PARALLEL

NOT TO SCALE



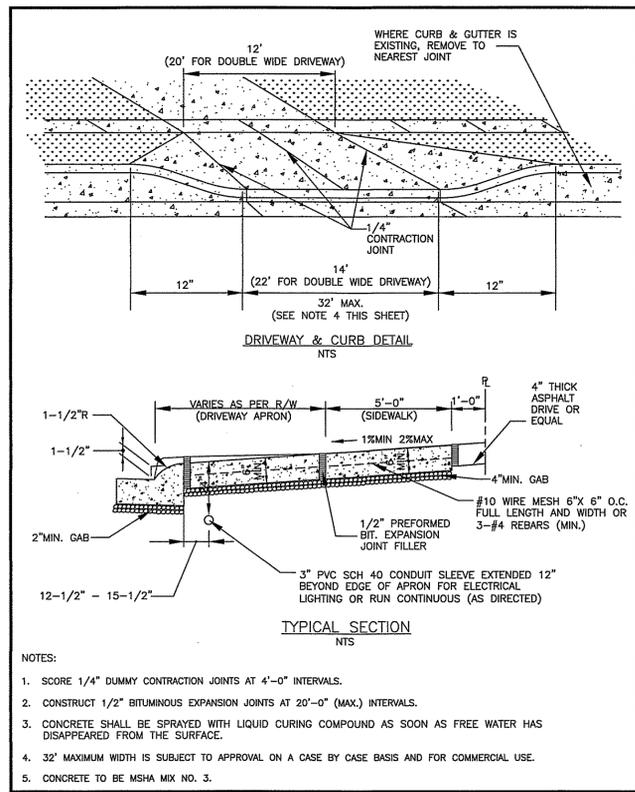
NOTES

1. WHERE PROPOSED PAVEMENT CONNECTS TO EXISTING PAVEMENT, SAW CUT THE EX. PAVEMENT FOR THE FULL LENGTH OF THE CONNECTION. FOR THE 1 1/2" SURFACE COURSE, THE EX. PAVEMENT MUST BE MILLED BACK A MINIMUM OF 18" TO ALLOW FOR A SMOOTH OVERLAP.
2. FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY TO PROVIDE A SMOOTH TRANSITION BOTH VERTICALLY AND HORIZONTALLY FROM EXISTING TO PROPOSED PAVING SECTION.



NOTES

1. CONCRETE SHALL BE M.S.H.A. MIX NO. 3 CONCRETE AS DESIGNATED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS.
2. CONCRETE SHALL BE SPRAYED WITH LIQUID CURING COMPOUND AS SOON AS FREE WATER HAS DISAPPEARED FROM THE SURFACE. CURING COMPOUND REQUIRED AS PER SPECIFICATION 32-16-13.
3. FORMS SHALL BE STEEL FORMS WITH THE EXCEPTION OF APPROVED FLEXIBLE FORMS FOR RADIAL FORMATION.
4. SIDEWALK SHALL HAVE A LIGHT BROOM FINISH.
5. SIDEWALKS TO BE SCRIED IN 5' MAXIMUM LENGTHS AND BRUSH FINISHED, EXPANSION JOINTS TO BE SPACED EVERY 15 FEET AND BETWEEN CURB AND SIDEWALK WHERE ADJACENT.

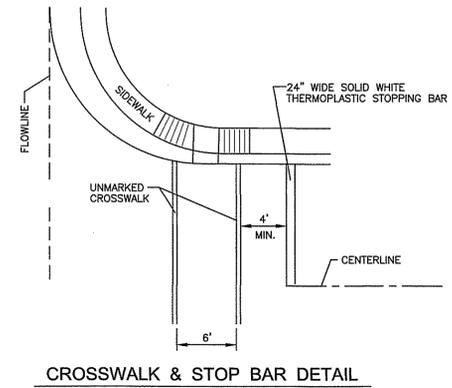


NOTES

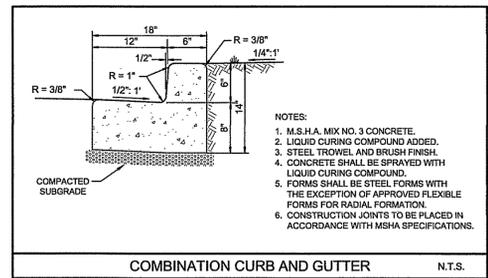
1. SCORE 1/4" DUMMY CONTRACTION JOINTS AT 4'-0" INTERVALS.
2. CONSTRUCT 1/2" BITUMINOUS EXPANSION JOINTS AT 20'-0" (MAX.) INTERVALS.
3. CONCRETE SHALL BE SPRAYED WITH LIQUID CURING COMPOUND AS SOON AS FREE WATER HAS DISAPPEARED FROM THE SURFACE.
4. 32" MAXIMUM WIDTH IS SUBJECT TO APPROVAL ON A CASE BY CASE BASIS AND FOR COMMERCIAL USE.
5. CONCRETE TO BE MSHA MIX NO. 3.

TYPICAL DRIVEWAY APRON DETAIL

NOT TO SCALE



STOP
R1-1
30"X30"



NOTES

1. M.S.H.A. MIX NO. 3 CONCRETE.
2. LIQUID CURING COMPOUND ADDED.
3. STEEL TROWEL AND BRUSH FINISH.
4. CONCRETE SHALL BE SPRAYED WITH LIQUID CURING COMPOUND.
5. FORMS SHALL BE STEEL FORMS WITH THE EXCEPTION OF APPROVED FLEXIBLE FORMS FOR RADIAL FORMATION.
6. CONSTRUCTION JOINTS TO BE PLACED IN ACCORDANCE WITH MSHA SPECIFICATIONS.



FOX & ASSOCIATES, INC.

ENGINEERS • SURVEYORS • PLANNERS
82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301)733-8903
or (301)416-7250
FAX: (301)293-6009
WWW.FOXASSOCIATESINC.COM

IRISHTOWN ROAD

PAVING NOTES AND DETAILS

SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT No. 5
FREDERICK COUNTY, MARYLAND

SCALE: AS SHOWN

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. 20709 EXP. DATE 1/22/22
PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

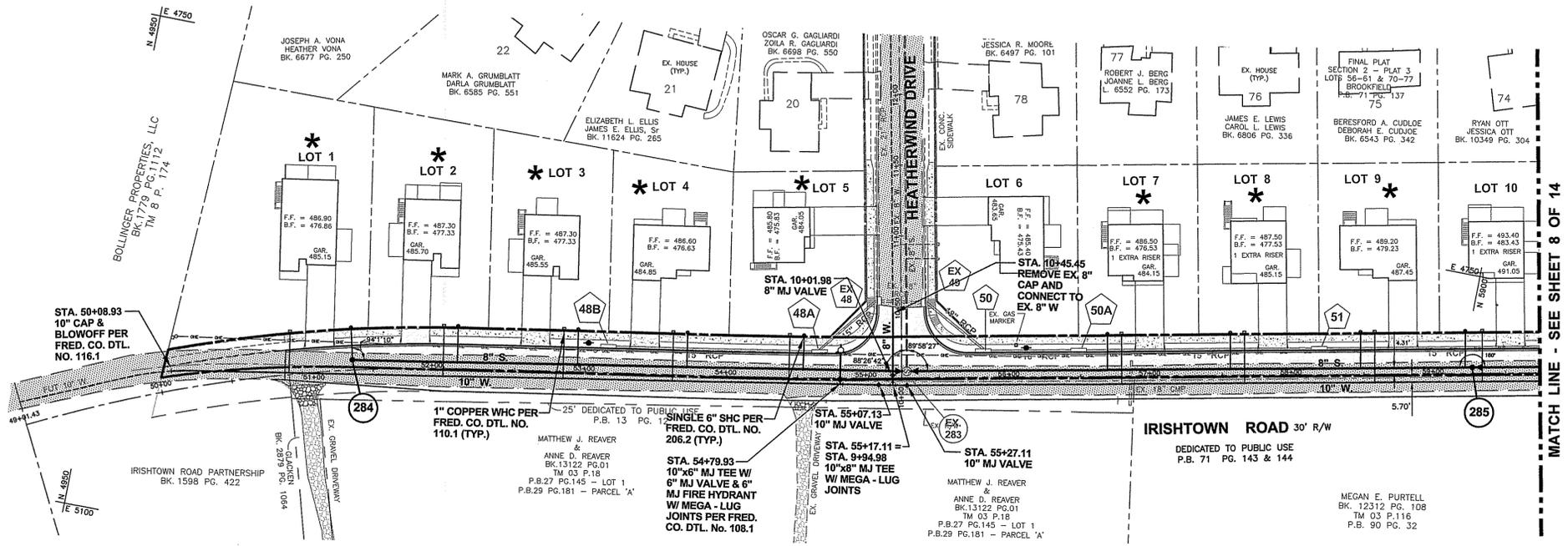
SHEET 6 OF 14

DRAWN BY

REVISION

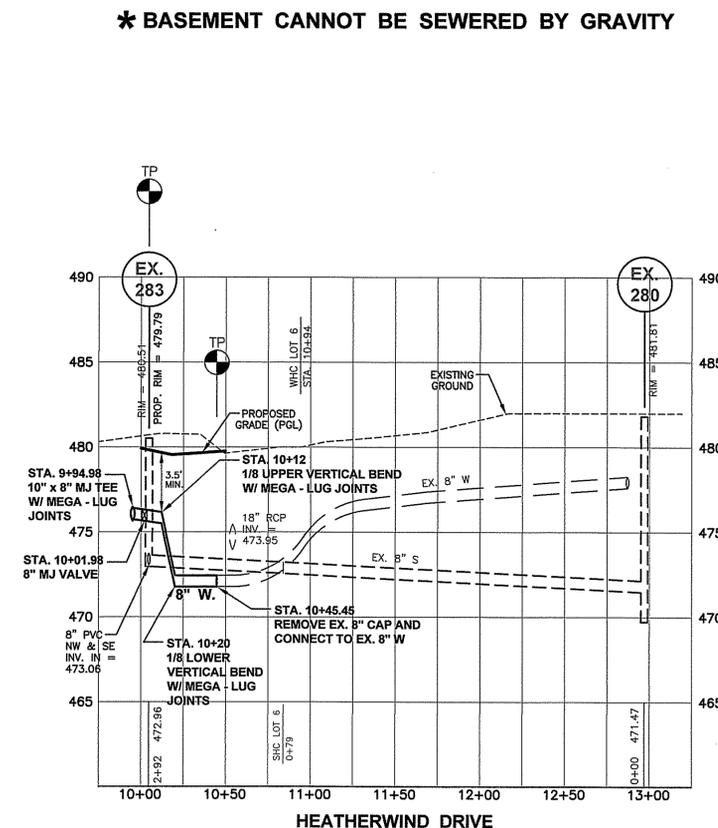
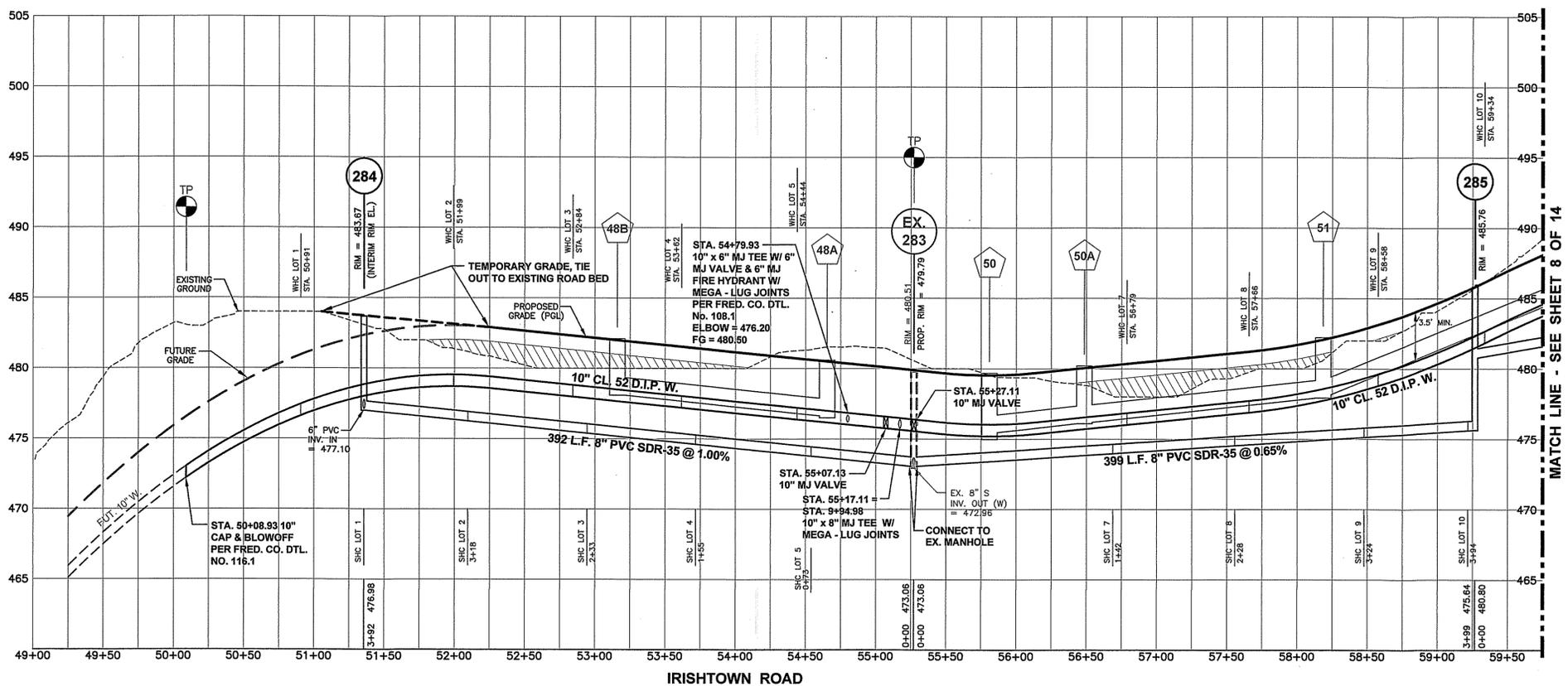
DATE

SEWER MANHOLE SCHEDULE			
MANHOLE	Q STATION	Q OFFSET	RIM ELEV.
EX 283	55+27.13	4.70' L	479.79
284	51+35.69	7.05' L	483.67
285	59+26.61	4.25' L	485.76
286	61+37.84	2.70' L	492.69
287	65+32.25	6.00' L	501.94
288	67+95.17	6.66' L	518.41



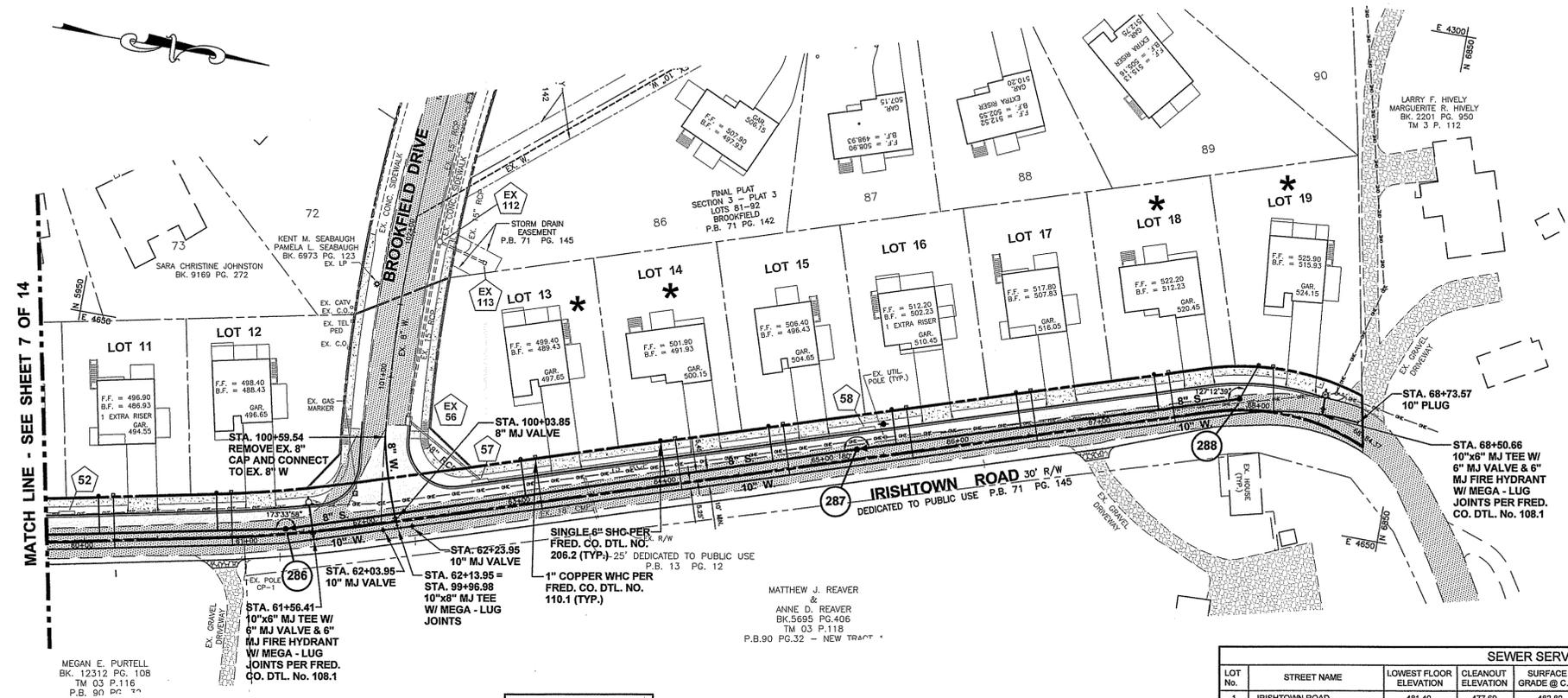
SCALES
PLAN: 1" = 30'
PROFILE: HORIZ. 1" = 30'
VERT. 1" = 5'

- NOTES:**
- CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT ALL CROSSINGS AND PROPOSED CONNECTION POINTS TO DETERMINE EXACT HORIZONTAL & VERTICAL LOCATION.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH. ALL TRENCHES SHALL BE BACK-FILLED AND STABILIZATION ON ALL DISTURBED AREAS SHALL OCCUR AT THE END OF EACH WEEK, EXCEPT FOR THE PORTION NECESSARY TO RESUME CONSTRUCTION. ANY DISTURBED AREAS OR STOCKPILES NOT STABILIZED AT THE END OF EACH DAY SHALL BE PROTECTED AND HAVE SEDIMENT CONTROLLED BY THE USE OF STRAW BALE DIKES, EARTH BERMS AND SILT FENCES AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR.



UTILITY PLAN & PROFILE
IRISHTOWN ROAD
STA. 50+00 TO STA. 59+75
SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT NO. 5
FREDERICK COUNTY, MARYLAND

SCALE: AS SHOWN
PROFESSIONAL CERTIFICATION
STATE OF MARYLAND
Professional Engineer
No. 37170
Date: 7/23/22
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 37170 EXP. DATE: 7/23/22
PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWM
CHECKED BY: JEM

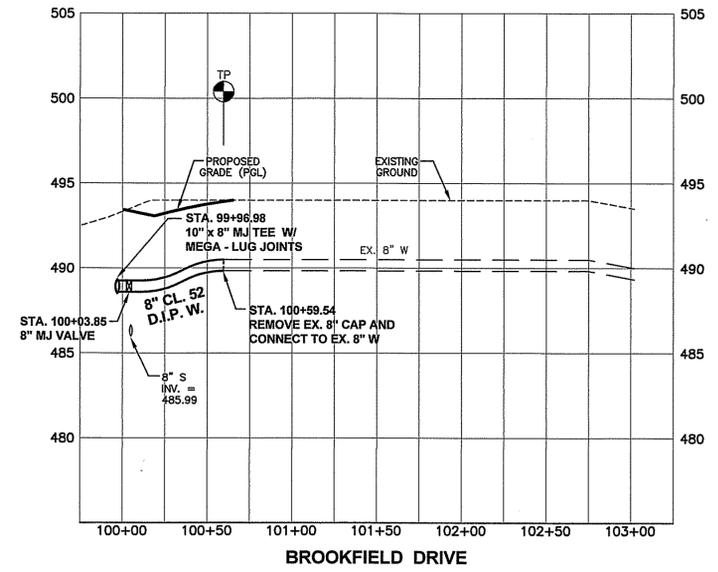
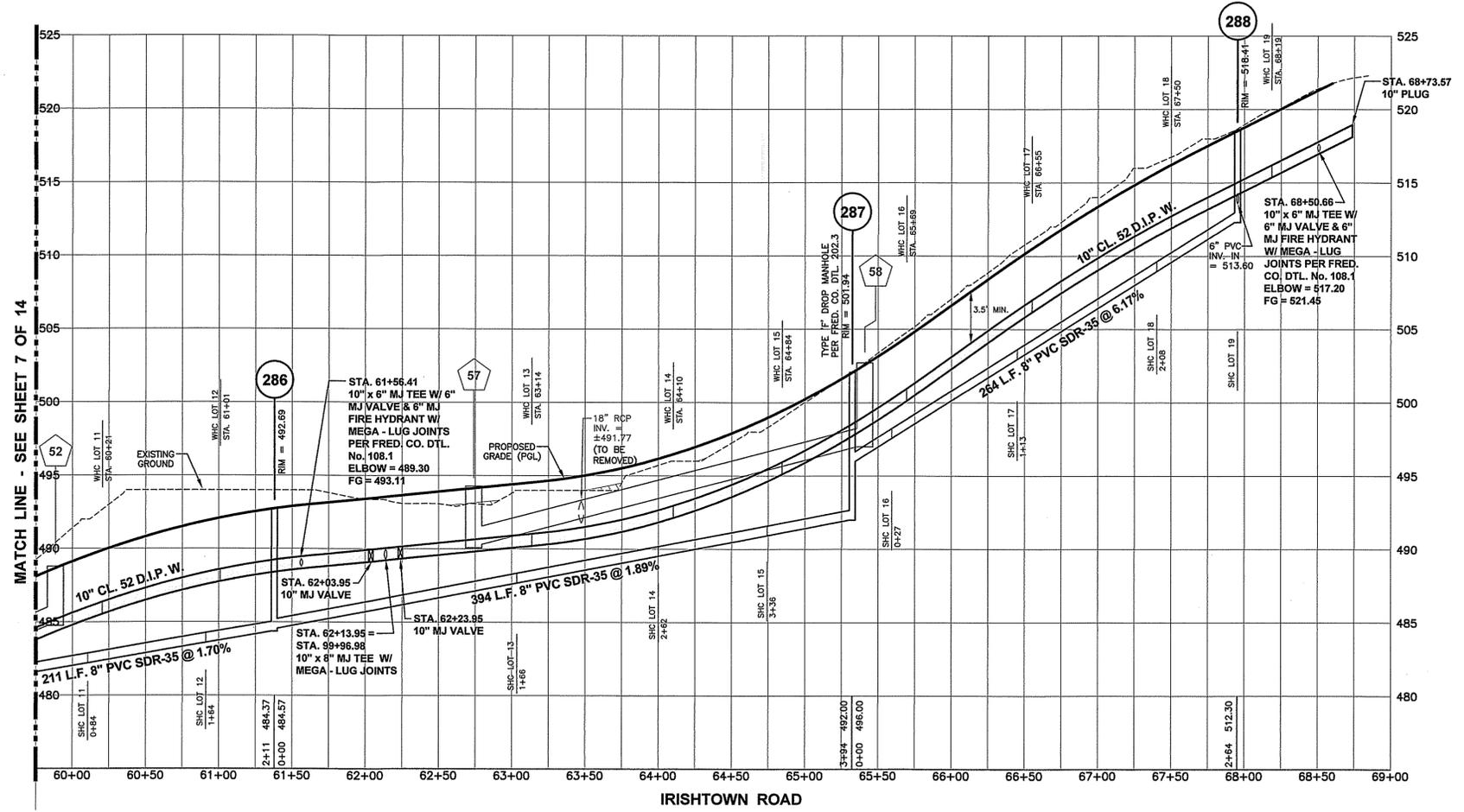


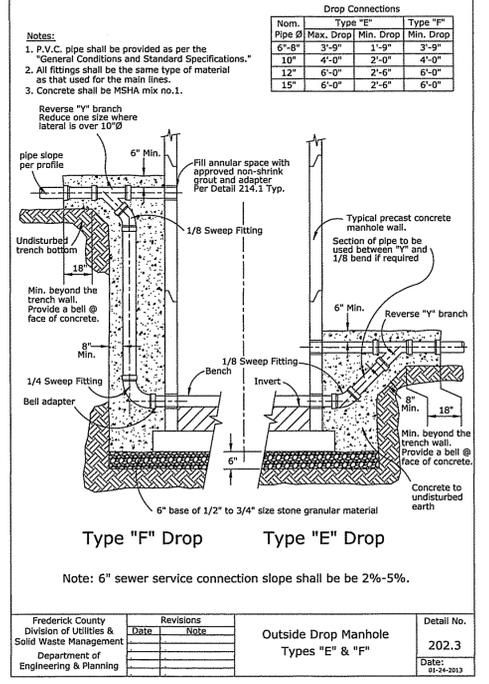
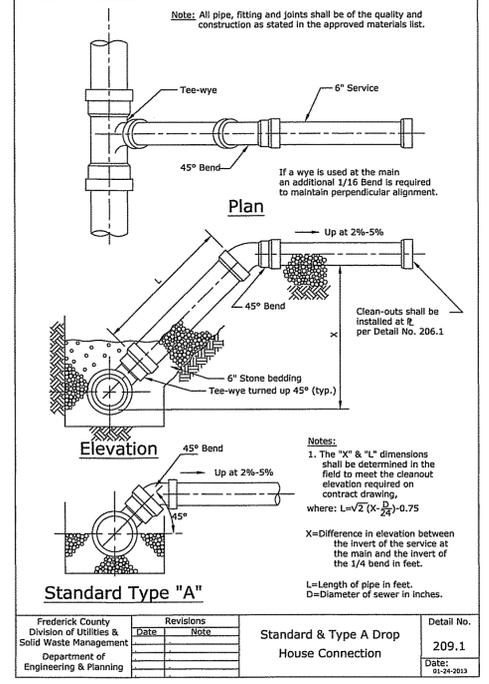
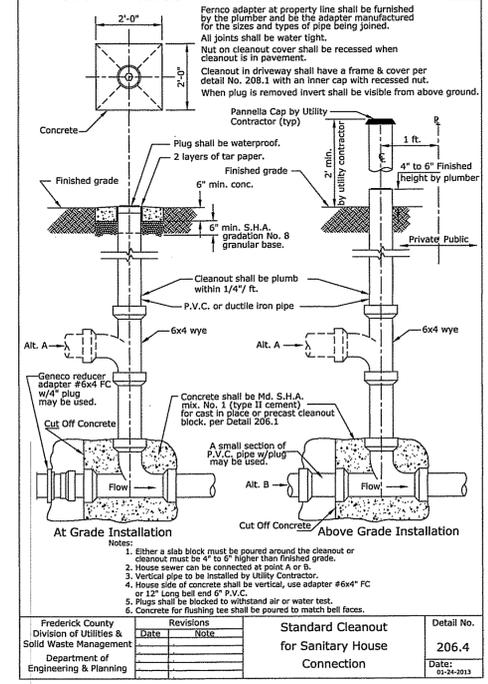
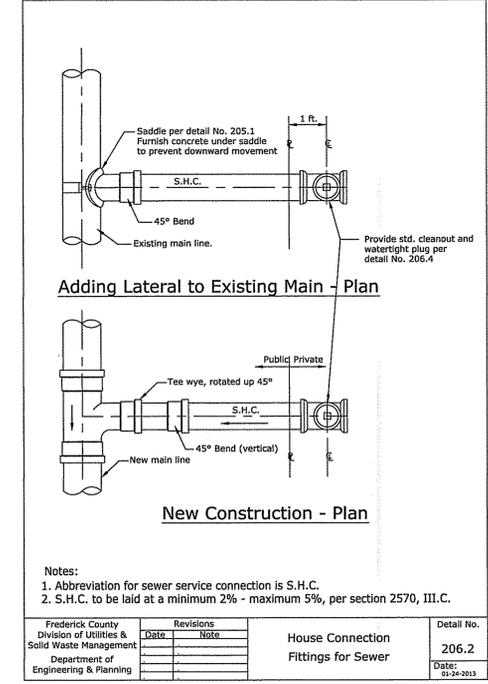
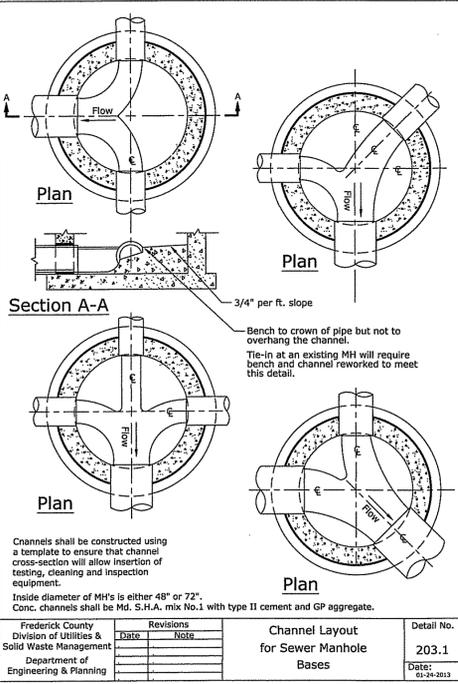
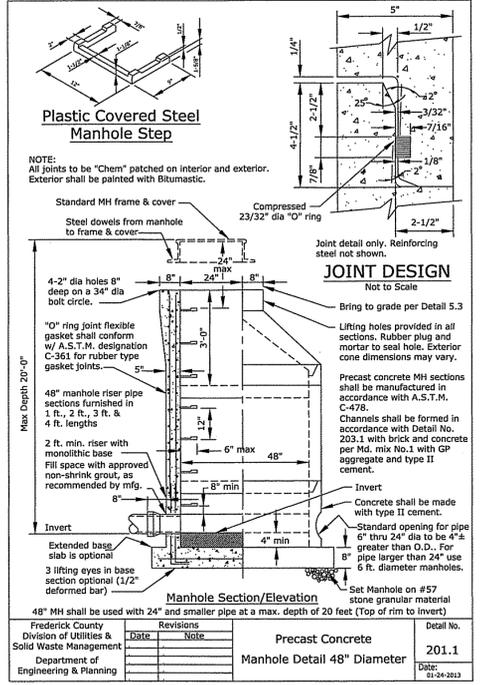
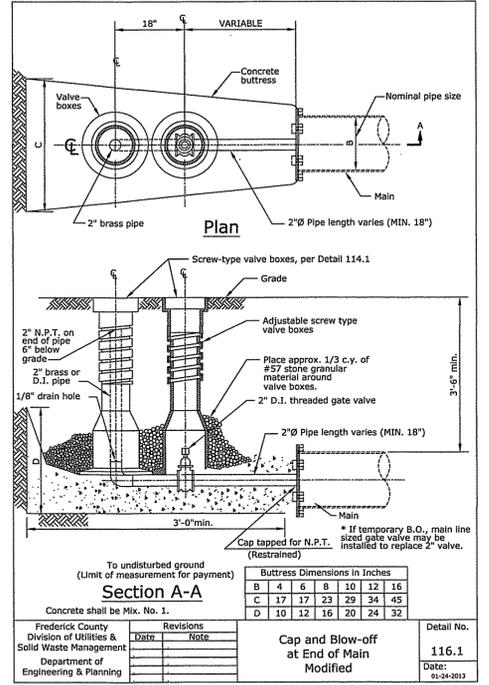
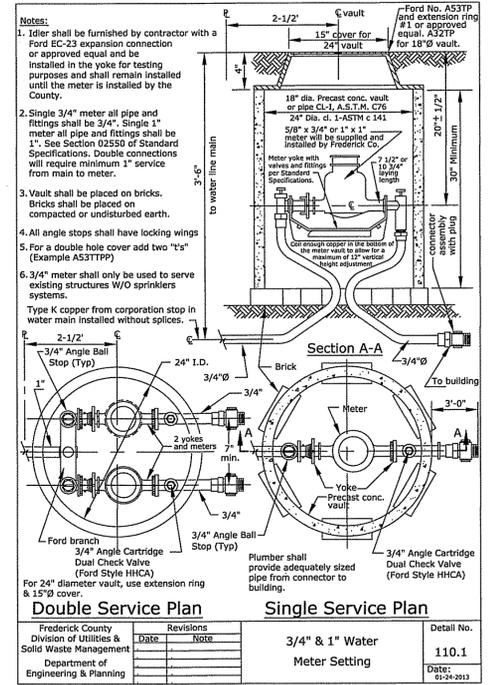
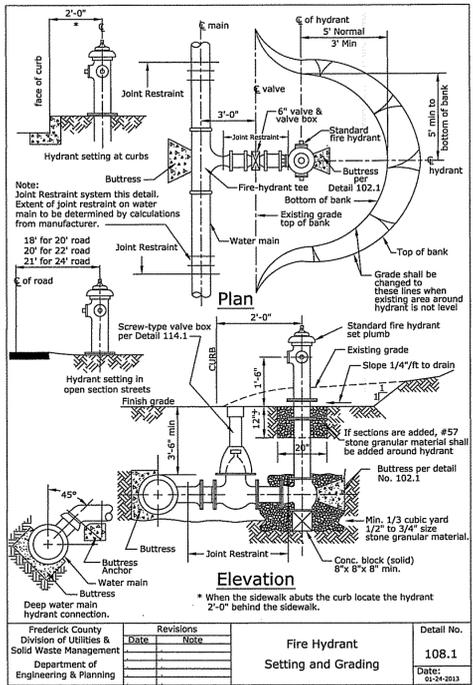
- NOTES:
- CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT ALL CROSSINGS AND PROPOSED CONNECTION POINTS TO DETERMINE EXACT HORIZONTAL & VERTICAL LOCATION.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH. ALL TRENCHES SHALL BE BACK-FILLED AND STABILIZATION ON ALL DISTURBED AREAS SHALL OCCUR AT THE END OF EACH WEEK, EXCEPT FOR THE PORTION NECESSARY TO RESUME CONSTRUCTION. ANY DISTURBED AREAS OR STOCKPILES NOT STABILIZED AT THE END OF EACH DAY SHALL BE PROTECTED AND HAVE SEDIMENT CONTROLLED BY THE USE OF STRAW BALE DIKES, EARTH BERMS AND SILT FENCES AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR.

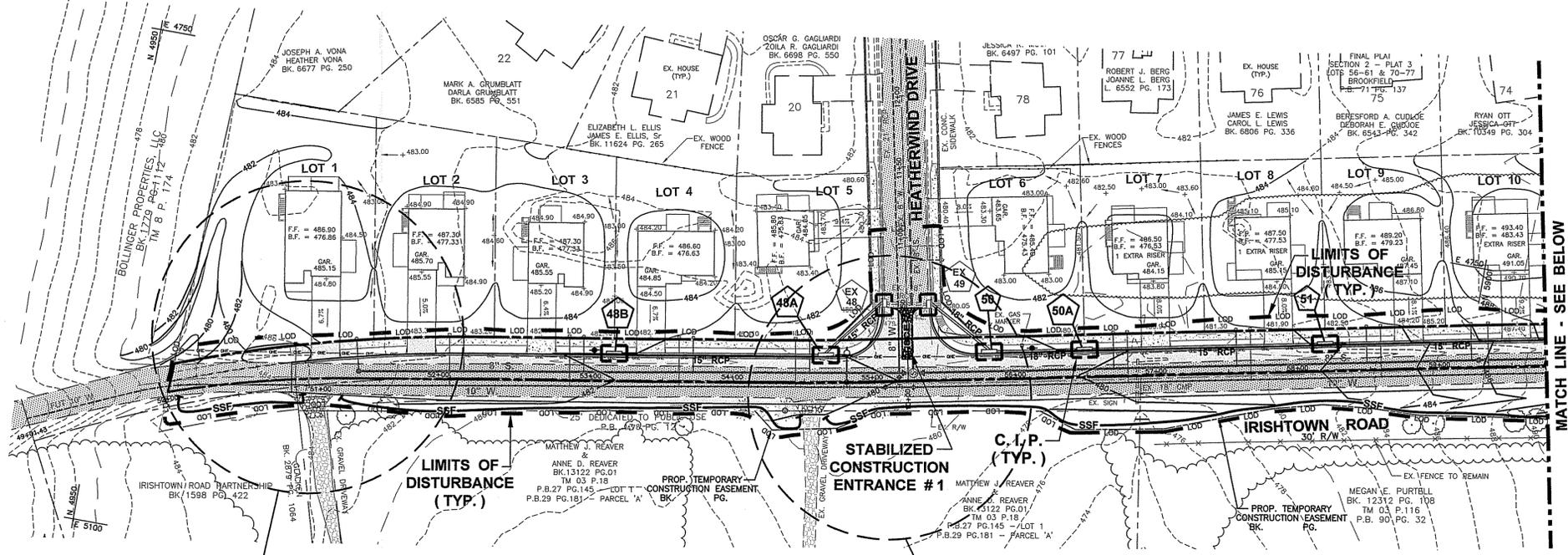
*** BASEMENT CANNOT BE SEWERED BY GRAVITY**

SCALES:
PLAN VIEW: 1" = 50'
PROFILE: HORIZ. - 1" = 50'
VERT. - 1" = 5'

LOT No.	STREET NAME	LOWEST FLOOR ELEVATION	CLEANOUT ELEVATION	SURFACE GRADE @ C.O.	TYPE	AS-BUILT INFORMATION					
						SEWER STATION	US/MH	D/S MH	LENGTH	DEPTH	REMARKS
1	IRISHTOWN ROAD	481.40	477.60	482.80	A	MH 284					
2	IRISHTOWN ROAD	481.00	477.41	480.46	A	3+18					
3	IRISHTOWN ROAD	480.00	476.56	482.61	A	2+33					
4	IRISHTOWN ROAD	479.10	475.78	481.84	A	1+55					
5	IRISHTOWN ROAD	478.66	474.96	481.02	A	0+73					
7	IRISHTOWN ROAD	478.45	475.15	480.64	A	1+42					
8	IRISHTOWN ROAD	479.20	475.71	481.61	A	2+28					
9	IRISHTOWN ROAD	479.60	476.34	483.23	A	3+24					
10	IRISHTOWN ROAD	480.20	478.79	486.02	A	3+94					
11	IRISHTOWN ROAD	486.80	483.40	489.90	A	0+84					
12	IRISHTOWN ROAD	487.40	484.76	492.33	A	1+64					
13	IRISHTOWN ROAD	492.48	488.88	494.84	A	1+66					
14	IRISHTOWN ROAD	494.00	490.69	496.57	A	2+62					
15	IRISHTOWN ROAD	495.60	492.09	498.35	A	3+36					
16	IRISHTOWN ROAD	502.20	498.83	504.15	A	0+27					
17	IRISHTOWN ROAD	507.60	504.14	510.36	A	1+13					
18	IRISHTOWN ROAD	513.40	510.00	516.15	A	2+08					
19	IRISHTOWN ROAD	517.70	514.10	519.60	A	MH 288					

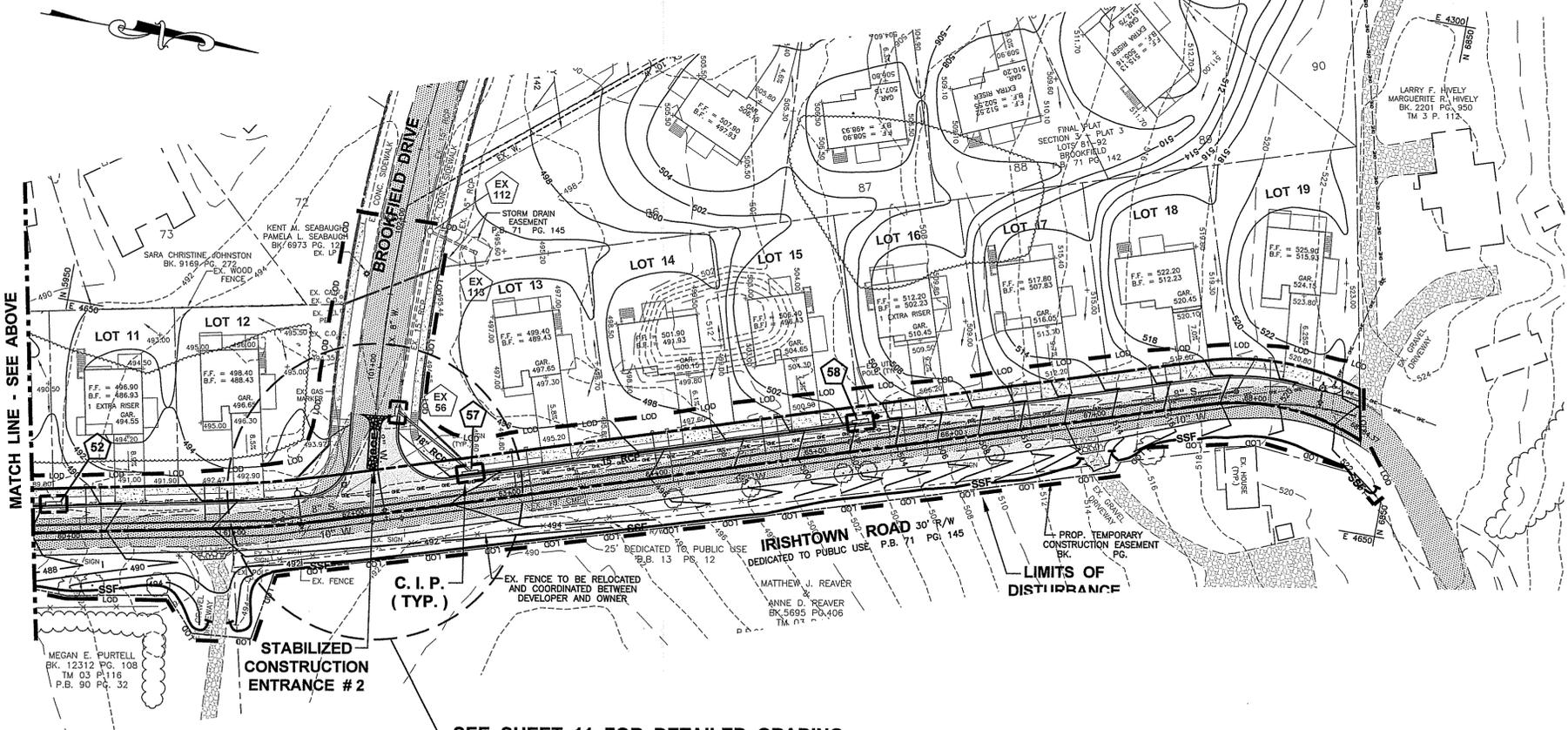




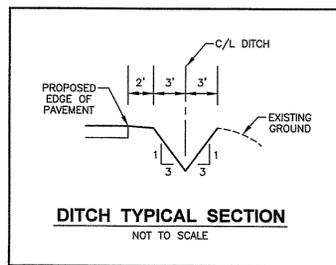


SEE SHEET 11 FOR DETAILED GRADING

SEE SHEET 11 FOR DETAILED GRADING



SEE SHEET 11 FOR DETAILED GRADING



FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL
By: _____
Date: _____
SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.
(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

OWNERS / DEVELOPERS CERTIFICATION
I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
OWNER / DEVELOPER: _____ DATE: 9/15/20

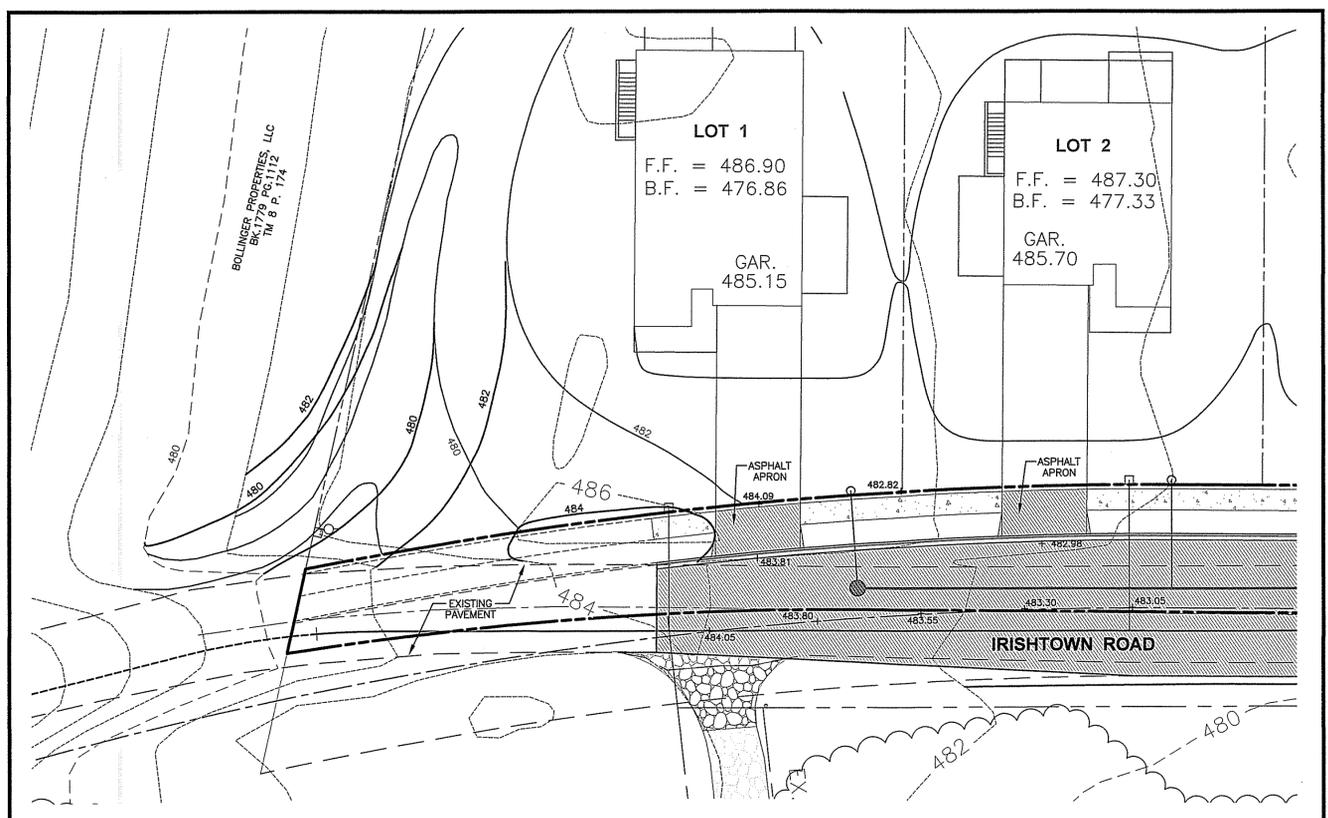
ENGINEER DESIGN CERTIFICATION
I HEREBY CERTIFY THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01, 26.17.02 AND THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
JOSEPH H. CECI REG. NO. 30709 DATE: 9/14/2020

H:\CARSON\PROJECTS\18150891_HIGHLAND DEVELOPMENT CORP\WD-01.DWG, 9/14/2020 2:43:19 PM, CTARRORETTO, JI

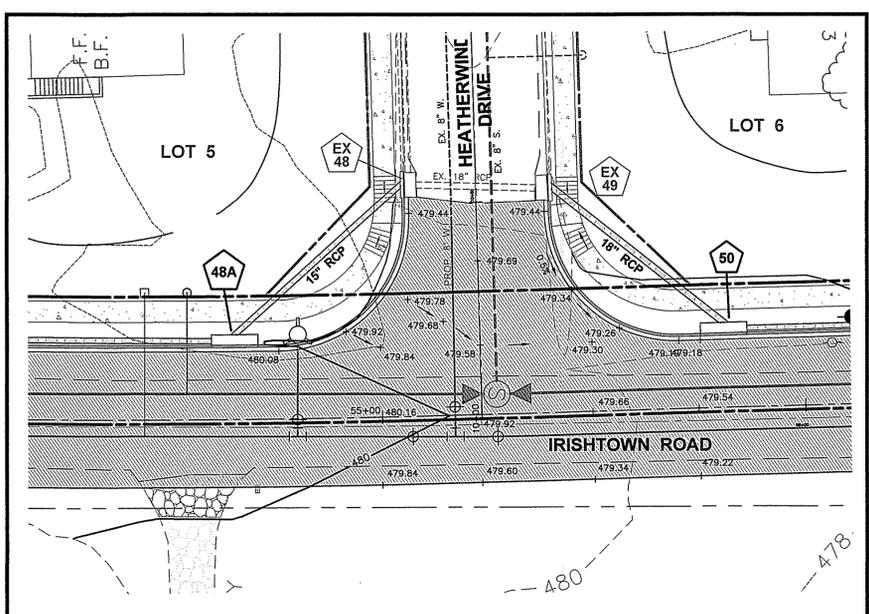
DRAWN BY

REVISION

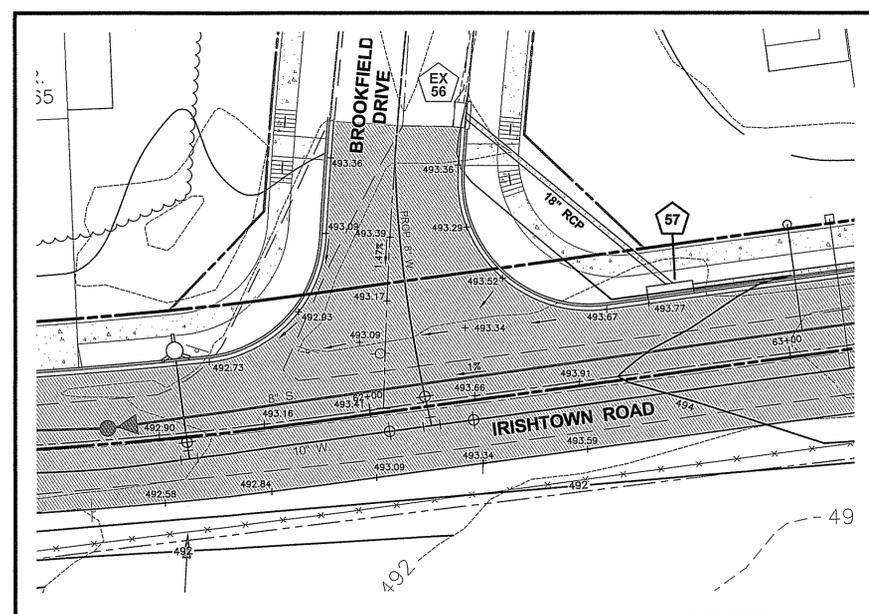
DATE



GRADING DETAIL
SCALE: 1" = 20'



GRADING DETAIL
SCALE: 1" = 20'



GRADING DETAIL
SCALE: 1" = 20'

GRADING DETAIL PLAN
IRISHTOWN ROAD
SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT No. 5
FREDERICK COUNTY, MARYLAND

SCALE: 1" = 20'

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. 30709 EXP. DATE 7/23/22

PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

SHEET 11 OF 14

OWNERS / DEVELOPERS CERTIFICATION
I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

OWNER/DEVELOPER: *[Signature]* DATE: 9/19/20

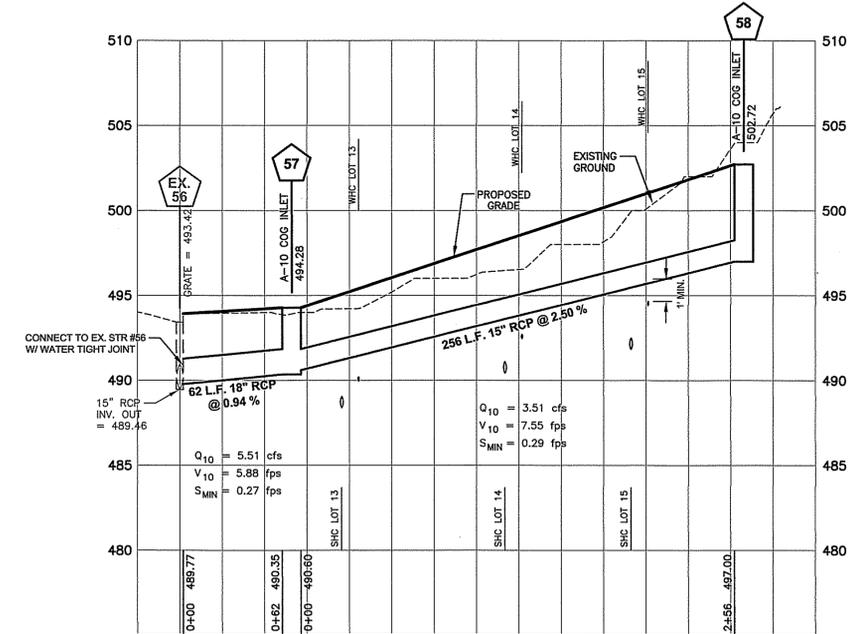
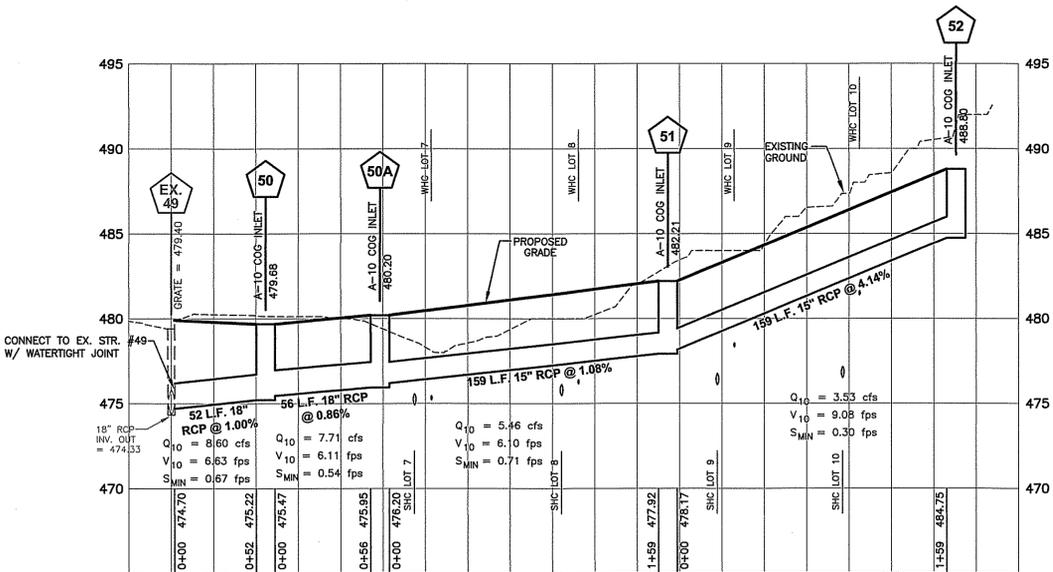
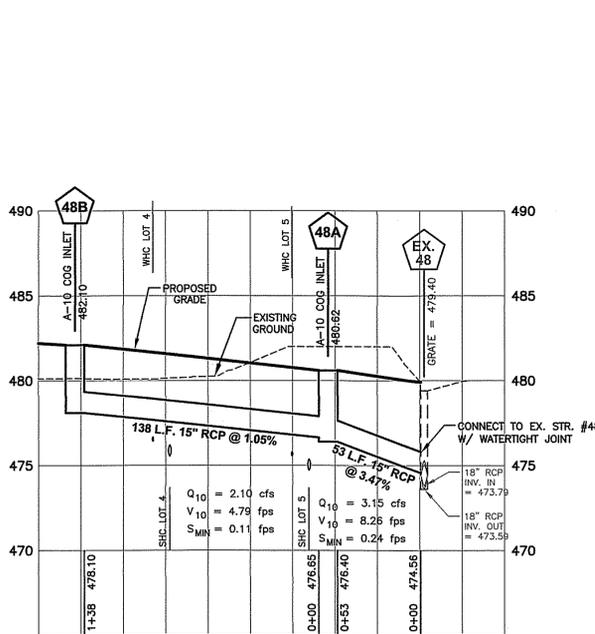
FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____
Date: _____

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.
(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

ENGINEER 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, 26.17.02 AND THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

[Signature] DATE: 9/14/2020
REG. NO. 30709

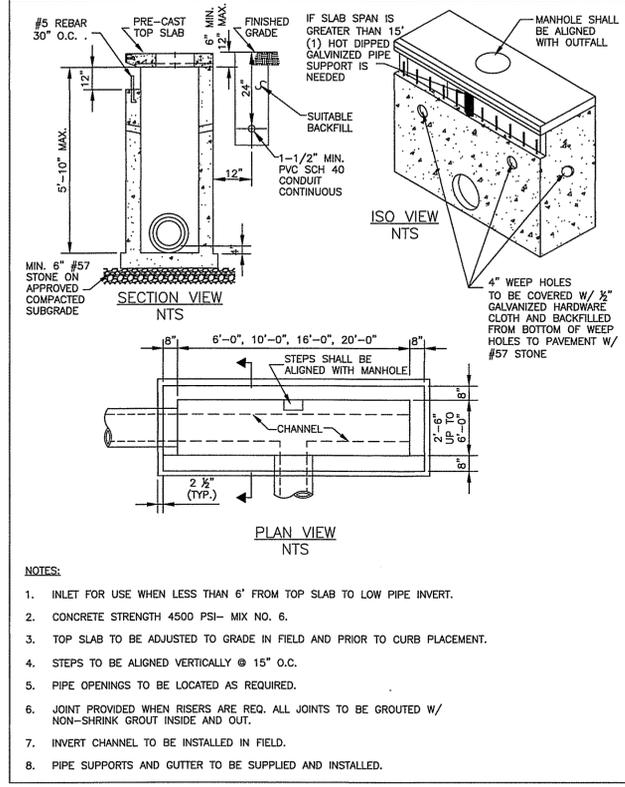


PROFILE SCALES
HORIZ. - 1" = 50'
VERT. - 1" = 5'

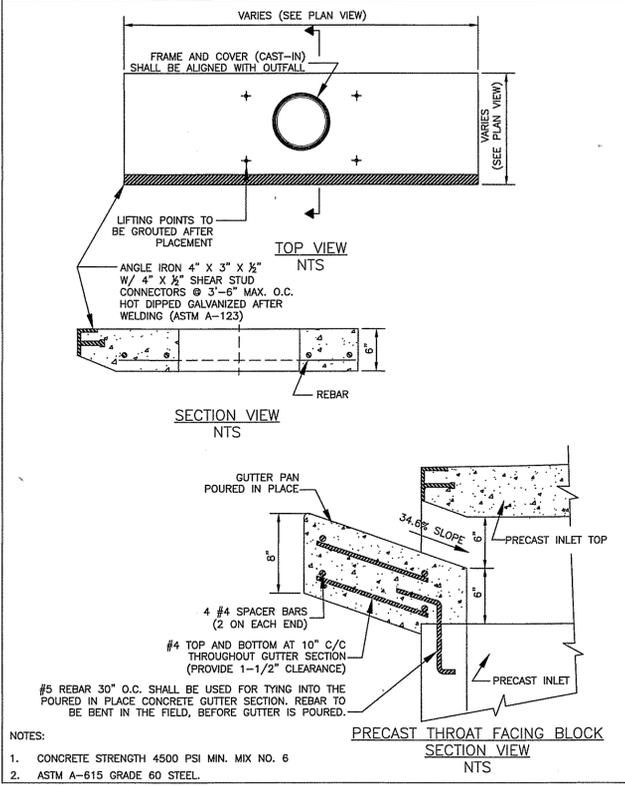
STRUCTURE SCHEDULE					
No.	TYPE	¢ STATION	¢ OFFSET	ELEVATION	REMARKS
48A	10' TYPE 'A' COG INLET	U 54+59.77	17'L	480.72 (TOP)	SEE DETAIL THIS SHEET
48B	10' TYPE 'A' COG INLET	L 54+70.84	17'L	480.61 (TOP)	SEE DETAIL THIS SHEET
50	10' TYPE 'A' COG INLET	U 53+10.08	17'L	482.22 (TOP)	SEE DETAIL THIS SHEET
50A	10' TYPE 'A' COG INLET	L 55+75.54	17'L	479.70 (TOP)	SEE DETAIL THIS SHEET
51	10' TYPE 'A' COG INLET	U 58+43.03	17'L	480.15 (TOP)	SEE DETAIL THIS SHEET
52	10' TYPE 'A' COG INLET	L 58+24.03	17'L	482.36 (TOP)	SEE DETAIL THIS SHEET
57	10' TYPE 'A' COG INLET	L 58+13.03	17'L	482.12 (TOP)	SEE DETAIL THIS SHEET
58	10' TYPE 'A' COG INLET	U 59+94.03	17'L	489.05 (TOP)	SEE DETAIL THIS SHEET
58A	10' TYPE 'A' COG INLET	L 59+83.03	17'L	488.61 (TOP)	SEE DETAIL THIS SHEET
57	10' TYPE 'A' COG INLET	U 62+79.55	17'L	494.37 (TOP)	SEE DETAIL THIS SHEET
58	10' TYPE 'A' COG INLET	L 62+68.55	17'L	494.26 (TOP)	SEE DETAIL THIS SHEET
58	10' TYPE 'A' COG INLET	U 65+46.37	17'L	503.09 (TOP)	SEE DETAIL THIS SHEET
58	10' TYPE 'A' COG INLET	L 65+35.37	17'L	502.41 (TOP)	SEE DETAIL THIS SHEET

* ELEV. GIVEN TO TOP OF CURB ** C/L STA. GIVEN TO C/L OF STRUCTURE *** C/L OFFSET GIVEN TO FACE OF CURB AT STRUCTURE

PIPE SCHEDULE			
SIZE	TYPE	CLASS	LENGTH
15"	RCP	IV	765
18"	RCP	IV	170



- NOTES:**
- INLET FOR USE WHEN LESS THAN 6' FROM TOP SLAB TO LOW PIPE INVERT.
 - CONCRETE STRENGTH 4500 PSI- MIX NO. 6.
 - TOP SLAB TO BE ADJUSTED TO GRADE IN FIELD AND PRIOR TO CURB PLACEMENT.
 - STEPS TO BE ALIGNED VERTICALLY @ 15" O.C.
 - PIPE OPENINGS TO BE LOCATED AS REQUIRED.
 - JOINT PROVIDED WHEN RISERS ARE REQ. ALL JOINTS TO BE GROUTED W/ NON-SHRINK GROUT INSIDE AND OUT.
 - INVERT CHANNEL TO BE INSTALLED IN FIELD.
 - PIPE SUPPORTS AND GUTTER TO BE SUPPLIED AND INSTALLED.



- NOTES:**
- CONCRETE STRENGTH 4500 PSI MIN. MIX NO. 6
 - ASTM A-615 GRADE 60 STEEL.

STORM DRAIN PROFILES
IRISHTOWN ROAD
SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT NO. 5
FREDERICK COUNTY, MARYLAND

SCALE: AS SHOWN



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.: 20709 EXP. DATE: 7/23/22

PROJECT NO.: 18-50891
DRAWING NO.: D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM



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.: 18-50891
EXP. DATE: 7/13/22
PROJECT NO.: 18-50891
DRAWING NO.: D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

TEMPORARY SEEDING NOTES

GENERAL

- SCOPE: PLANTING SHORT TERM VEGETATION TO STABILIZE CLEARED OR GRADED AREAS SUBJECT TO EROSION FOR A PERIOD OF 7 DAYS OR MORE.
- STANDARDS: TEMPORARY SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," PUBLISHED JOINTLY BY WATER MANAGEMENT ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE.
- SEDIMENT EROSION CONTROL: ALL PERIMETER CONTROLS MUST BE STABILIZED IN 3 DAYS; ALL INTERIOR CONTROLS MUST BE STABILIZED IN 7 DAYS.

SPECIFICATIONS

- SITE PREPARATION
 - PRIOR TO SEEDING, INSTALL ALL REQUIRED SEDIMENT EROSION CONTROL MEASURES.
 - FINAL GRADING NOT REQUIRED FOR TEMPORARY SEEDING.
- SOIL AMENDMENTS
 - FERTILIZER SHALL BE APPLIED AT A RATE OF 600 LBS/ACRE USING 10-10-10 OR EQUIVALENT.
 - ACID SOILS SHALL BE LIMED.
- SEED PREPARATION
 - SOIL SHALL BE LOOSENEED TO A DEPTH OF 3-INCHES BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.
- SEEDING
 - SELECT A MIXTURE FROM TABLE B.1 IN THE STANDARD SPECIFICATIONS.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER.
- MULCHING
 - MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. MULCH MATERIALS AND APPLICATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

NOTE: ALL AREAS TO BE ROUGH GRADED AND/OR GRADED ONLY ARE TO BE STABILIZED BY TEMPORARY SEEDING AND MULCHING WITHIN 7 DAYS AFTER GRADING IS COMPLETE, IF PERMANENT SEEDING CANNOT BE PERFORMED AT THAT TIME. THESE AREAS SHALL BE STABILIZED WITH PERMANENT SEEDING AND MULCHING AT THE BEGINNING OF THE NEXT GROWING SEASON.

TEMPORARY SEEDING SUMMARY

No.	SPECIES	SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE B.1			SEEDING DEPTHS	FERTILIZER RATE (10-10-10)	LIME RATE
		APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS			
1	* BARLEY	95 (2.25L/1000 S.F.)	3/15 - 5/31 8/1 - 9/30	1"	438 LBS/AC (10 LBS/1000 S.F.)	2 TONS/AC (50 LBS/1000 S.F.)	

* OR LIKE SPECIES WITH APPROVAL FROM FREDERICK & CACTOIN S.C.D.

PERMANENT SEEDING & SOD NOTES

GENERAL

- SCOPE: PLANTING PERMANENT, LONG-LIVED VEGETATIVE COVER ON GRADED OR CLEARED AREAS.
- STANDARDS: PERMANENT SEEDING SHALL CONFORM TO ALL REQUIREMENTS OF "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," PUBLISHED JOINTLY BY WATER MANAGEMENT ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE.

SPECIFICATIONS

- SITE PREPARATION
 - PRIOR TO SEEDING, INSTALL ALL REQUIRED SEDIMENT EROSION CONTROL MEASURES.
 - FINAL GRADING REQUIRED FOR PERMANENT SEEDING.
- SOIL AMENDMENTS
 - FERTILIZER SHALL BE APPLIED AT A RATE OF 600 LBS/ACRE USING 10-10-10 OR EQUIVALENT.
- SEEDBED PREPARATION
 - SOIL SHALL BE LOOSENEED TO A DEPTH OF 3-INCHES BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS PRIOR TO SEEDING.
- SEEDING
 - SELECT A MIXTURE FROM TABLE B.2 & B.3 IN THE STANDARD SPECIFICATIONS.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER ON A FIRM, MOIST SEEDBED), MAXIMUM SEEDING DEPTH SHOULD BE 1/4 INCH ON CLAYEY SOILS AND 1/2 INCH ON SANDY SOILS, WHEN USING OTHER THAN HYDROSEEDER METHOD OF APPLICATION. NOTE: IF HYDROSEEDING IS USED AND SEED AND FERTILIZER IS MIXED, THEY WILL BE MIXED ON SITE AND THE SEEDING SHALL BE IMMEDIATE WITHOUT INTERRUPTION.

PERMANENT STABILIZATION WITH SOD

- ALL SPECIFICATIONS, SITE PREPARATION, INSTALLATION AND MAINTENANCE OF SOD FOR PERMANENT, LONG-LIVED VEGETATIVE COVER SHALL CONFORM TO SECTION B OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," PUBLISHED JOINTLY BY WATER MANAGEMENT ADMINISTRATION, SOIL CONSERVATION SERVICE AND STATE SOIL CONSERVATION COMMITTEE.

NOTE: ALL AREAS TO BE ROUGH GRADED AND/OR GRADED ONLY ARE TO BE STABILIZED BY PERMANENT SEEDING AND MULCHING WITHIN 7 DAYS AFTER GRADING IS COMPLETE (SEE TEMPORARY SEEDING NOTES)

PERMANENT SEEDING SUMMARY

No.	SPECIES	SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE B.3			SEEDING DEPTHS	FERTILIZER RATE (10-20-20)			LIME RATE
		APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		N	P205	K20	
6	TALL FESCUE PERENNIAL RYEGRASS WHITE CLOVER	40 25 5	3/1 - 5/15 8/1 - 10/15	1/4" - 1/2"	45 LB/AC (1.0 LB/1000 S.F.)	90 LB/AC (2 LB/1000 S.F.)	90 LB/AC (2 LB/1000 S.F.)	2 TONS/AC (50 LB/1000 S.F.)	

SEDIMENT & EROSION CONTROL 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 LOCAL 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 WITH 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 SEEDED AND MULCHED 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.
- DURING CONSTRUCTION, ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IF NECESSARY. SEDIMENT TO BE REMOVED TO A SUITABLE DISPOSAL AREA AND STABILIZED WITH PERMANENT VEGETATIVE COVER.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL DISTURBED AREAS ARE STABILIZED.
- AFTER FINE GRADING, ALL DISTURBED AREAS ARE TO BE PERMANENTLY SEEDED AND MULCHED IN ACCORDANCE WITH PERMANENT SEEDING SUMMARY.
- ALL SPOIL AND/OR BORROW MUST COME FROM AND GO TO A SITE WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
- 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.

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).
- DURING CONSTRUCTION AND RELEASE OF THE SIGHT FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SEDIMENT CONTROL INSPECTOR 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).

SEQUENCE OF CONSTRUCTION

- OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. CONTACT FREDERICK COUNTY ENVIRONMENTAL COMPLIANCE SECTION TO SET UP A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR AT 301-600-3507, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. ADDITIONAL SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS A RESULT OF THE PRE-CONSTRUCTION MEETING.
- INSPECT EXISTING SEDIMENT & EROSION CONTROL DEVICES. REPAIR IF NEEDED AND PLACE ADDITIONAL MEASURES AS NECESSARY.
- INSTALL UTILITIES.
- UPON COMPLETION OF STORM DRAIN SYSTEM INSTALL INLET PROTECTION.
- TEMPORARILY STABILIZE DISTURBED AREAS OUTSIDE OF RIGHT-OF-WAY UNTIL FINAL STABILIZATION CAN OCCUR.
- FINE GRADE ROADS AND COMMENCE PAVING OPERATIONS.
- ONCE ROADS ARE PAVED AND ALL UTILITIES HAVE BEEN INSTALLED, FINE GRADE AND STABILIZE RIGHT-OF-WAY.

SEDIMENT CONTROL / STORMWATER MANAGEMENT REQUIRED INSPECTIONS		
TYPE OF INSPECTION	DEVELOPER ENGINEER APPROVAL/DATE	EEA INSPECTION/ DATE
1) PRECONSTRUCTION MEETINGS		
2) COMPLETION OF SEDIMENT CONTROL MEASURES (IF USING BASIN SEE # 6 BELOW)		
3) PRIOR TO MODIFICATION OR REMOVAL OF SED. CNTRL.		
4) INFILTRATION SYSTEMS A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. INFILTRATION AREA PROTECTED FROM SEDIMENTATION C. DIMENSIONS D. FILTERING MATERIAL (TYPE/DEPTH) E. FILL MATERIAL F. SIZE, PLACEMENT, TYPE OF PIPING (IF APPLICABLE) G. OBSERVATION WELL H. COVER / STABILIZATION		
5) OPEN CHANNEL FLOW ATTENUATION A. SITE READINESS PER SEQUENCE OF CONSTRUCTION B. CROSS SECTION CONFORMANCE C. MATERIAL (TYPE/SIZE) D. STABILIZATION		
6) RETENTION / DETENTION STRUCTURES (BASIN/POND) A. SUBGRADE PREPARATION 1. CORE TRENCH 2. SUITABLE FILL 3. COMPACTION B. EMBANKMENT CONSTRUCTION 1. SUITABLE MATERIAL 2. SLOPE GRADE C. BARREL AND RISER ASSEMBLY 1. CORRECT MATERIAL ONSITE 2. SIZING 3. ANTI-SLEEP COLLARS 4. INSTALLATION / BACKFILL D. CONCRETE INLET STRUCTURES 1. FOOTER EXCAVATION AND SIZE 2. REINFORCING MATERIAL (TYPE, SIZE, PLACEMENT) 3. WEIR FLOOR 4. FORM STRIP AND FINISHING E. IMPOUNDING AREA 1. LOW FLOW CHANNELS 2. DEWATERING DEVICE 3. EMERGENCY SPILLWAY F. CUTOFF AREA LEVEL SPREADER, RIPRAP CHANNEL, ETC.) G. VEGETATION STABILIZATION H. MISCELLANEOUS		

NOTES

- THE WETLANDS HAVE BEEN DELINEATED, AS SHOWN, BY MCCARTHY & ASSOCIATES, INC. WETLAND DELINEATION REPORT DATED DECEMBER 2005. THE FIELD RECOVERED LIMITS ARE SHOWN ON THE PLAN.
- FOX & ASSOCIATES, INC. HAS PREPARED A DETAILED 100 YEAR FLOODPLAIN STUDY. THE FLOODPLAIN SHOWN ON THE PLAN IS THE LIMITS OF THE DETAILED STUDY. THERE IS NO MAPPED 100 YEAR FLOODPLAIN ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL NUMBER 240027 0175C.

FOR UTILITY WORK ONLY OR OFF-SITE UTILITY WORK

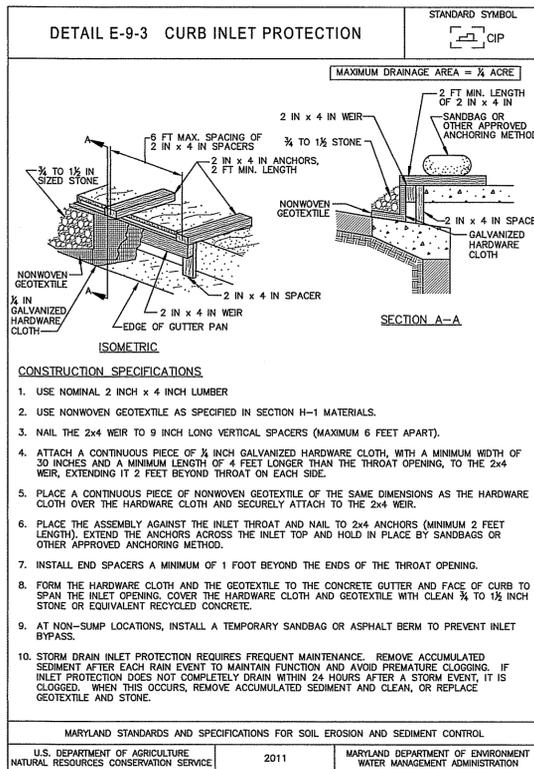
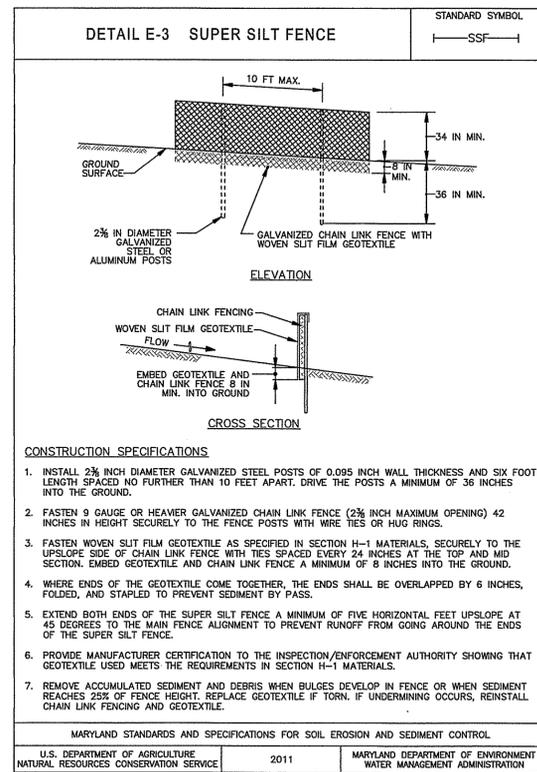
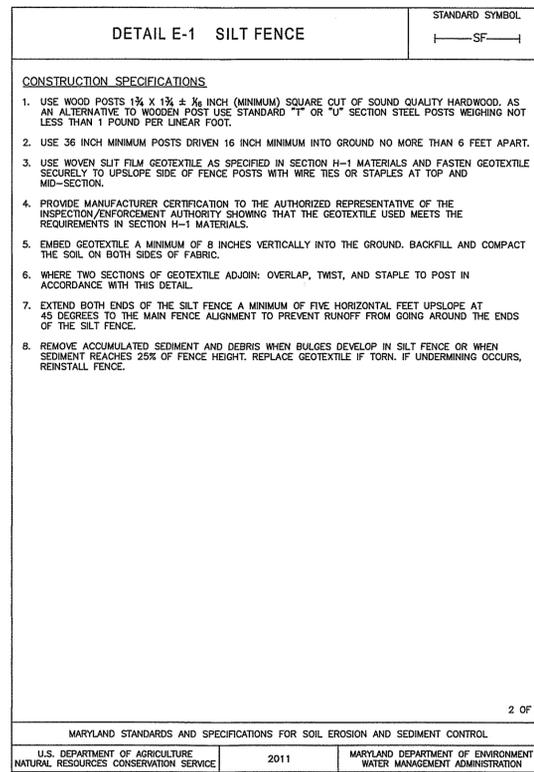
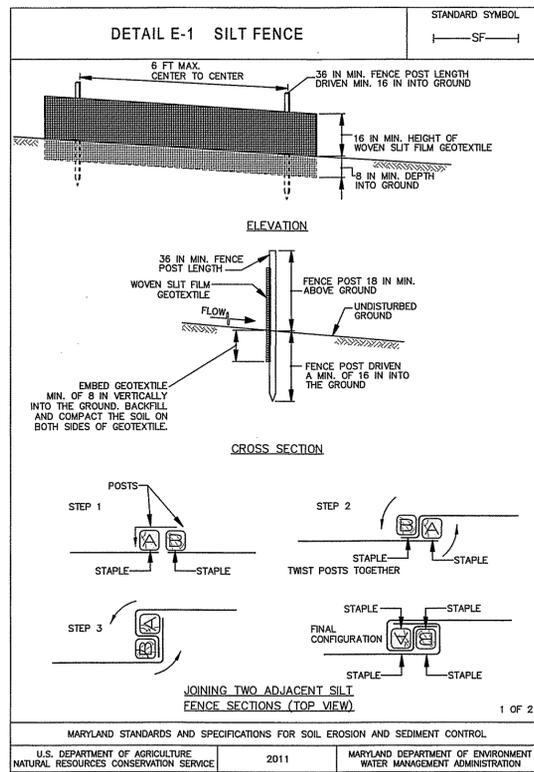
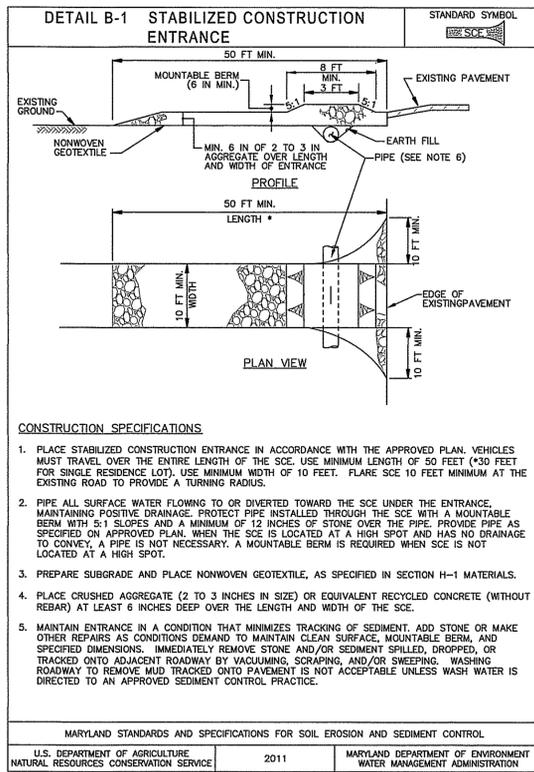
- DISTURBANCE OUTSIDE OF LIMIT OF DISTURBED AREA CAN NOT EXCEED 5,000 SQUARE FEET.
- PLACE ALL EXCAVATED MATERIAL ON HIGH SIDE OF TRENCH.
- ONLY DO AS MUCH WORK AS CAN BE DONE IN ONE DAY SO BACKFILLING, FINAL GRADING, SEEDING AND MULCHING CAN OCCUR.
- ANY SEDIMENT CONTROL MEASURES DISTURBED BY CONSTRUCTION WILL BE REPAIRED THE SAME DAY.

SECONDARY UTILITY NOTES

- ALL DISTURBANCES FROM SECONDARY UTILITIES SUCH AS PHONE, CABLE, ELECTRIC CABLE, CABLE TV, ETC. WILL BE SUBCONTRACTORS RESPONSIBILITY TO BRING WORK AREA BACK TO GRADE LEVEL THAT WAS EXISTING AND SEED AND MULCH ANY DISTURBANCE FROM INSTALLATION OF LINES OR CONDUIT.
- SUBCONTRACTORS WILL BE RESPONSIBLE FOR RE-INSTALLING OR REPAIRING ANY SILT FENCE OR SEDIMENT CONTROLS THAT WERE EXISTING TO MAINTAIN PROPER SEDIMENT CONTROL THAT MIGHT HAVE BEEN DAMAGED.

STOCKPILE NOTES

- NO STOCKPILING ALLOWED ON ASPHALT.
- ALL STOCKPILES LEFT AT THE END OF EACH WEEK NEED TO BE STABILIZED UNTIL THE NEXT REDISTURBANCE.



FOX & ASSOCIATES INC.
Est. 1966

ENGINEERS • SURVEYORS • PLANNERS

82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301) 733-8603
or (301) 416-7250
FAX: (301) 733-1853

WWW.FOXASSOCIATESINC.COM EMail: FOX@FOXASSOCIATESINC.COM

SEDIMENT CONTROL NOTES AND DETAILS

IRISHTOWN ROAD

SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT No. 5
FREDERICK COUNTY, MARYLAND

SCALE: AS SHOWN

PROFESSIONAL CERTIFICATION

STATE OF MARYLAND
JOSEPH H. CEO
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/29/22

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. 30709 EXP. DATE 7/29/22

PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

ENGINEER 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, 26.17.02 AND THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

Joseph H. CEO 9/14/2020
JOSEPH H. CEO REG. NO. 30709 DATE

**FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL**

By: _____
Date: _____

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.
(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

OWNERS / DEVELOPERS CERTIFICATION

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

Joseph H. CEO 9/15/20
OWNER / DEVELOPER DATE

SEDIMENT CONTROL NOTES AND DETAILS

IRISHTOWN ROAD

SITUATED ON THE WEST SIDE OF IRISHTOWN ROAD
TOWN OF EMMITSBURG, ELECTION DISTRICT No. 5
FREDERICK COUNTY, MARYLAND

SCALE: AS SHOWN

PROFESSIONAL CERTIFICATION

STATE OF MARYLAND
JOSEPH H. CEO
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 7/29/22

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. 30709 EXP. DATE 7/29/22

PROJECT NO. 18-50891
DRAWING NO. D-3501
DATE: AUGUST 2020
DRAWN BY: JWE
CHECKED BY: JEM

SHEET 14 OF 14

H:\Calson Product\18103091\Hdland Development\Case\WD-01.dwg, 9/15/2020 9:10:28 AM, mdcanson, li