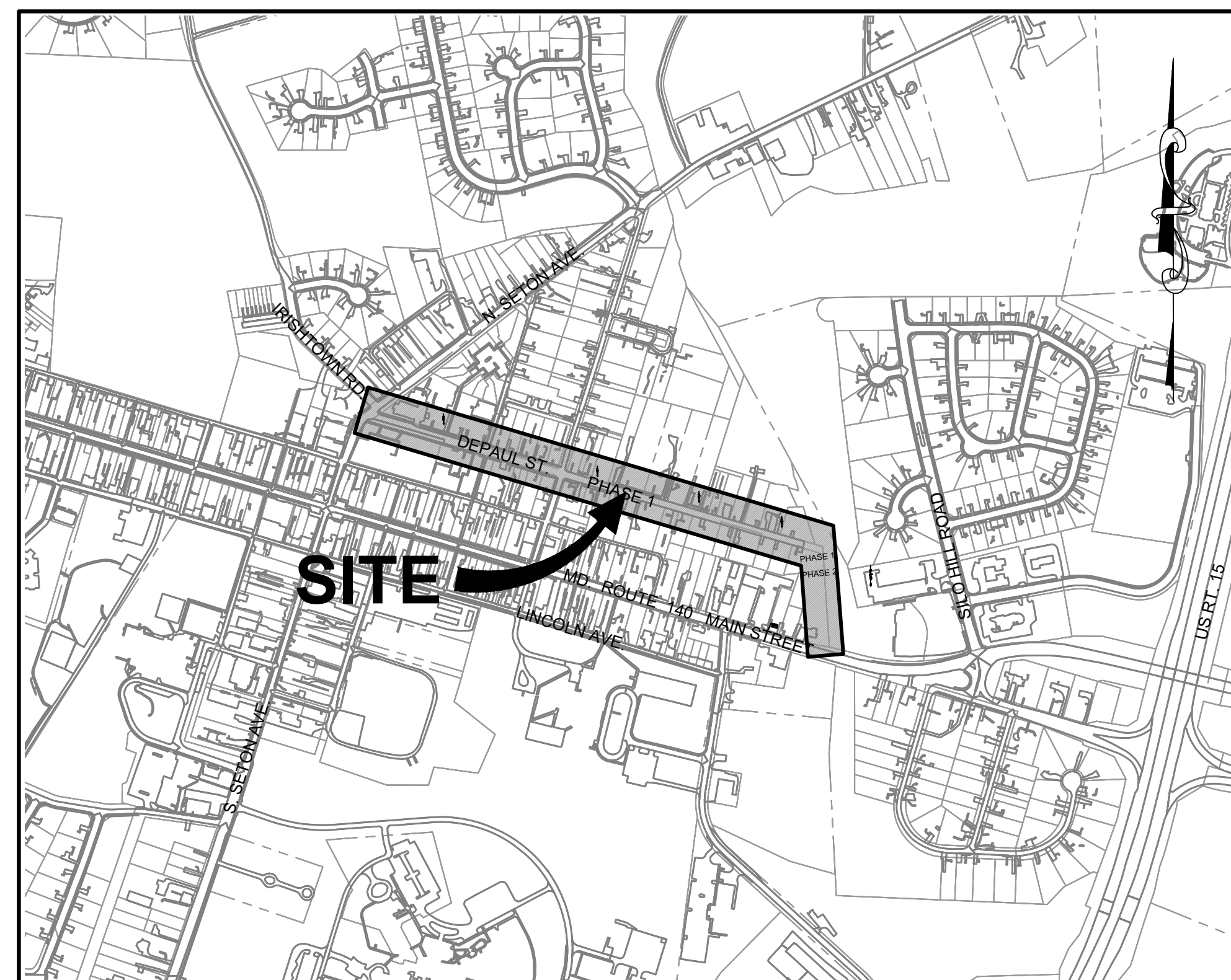


IMPROVEMENT PLANS TOWN OF EMMITSBURG DEPAUL STREET WATERLINE REPLACEMENT

PHASE 1 & PHASE 2 TOWN OF EMMITSBURG FREDERICK COUNTY, MARYLAND

| SHEET No. | DESCRIPTION |
|-----------|--|
| 1 | COVERSHEET |
| 2 | LEGEND AND NOTES |
| 3 | PHASE 1 WATER MAINPLAN & PROFILE |
| 4 | PHASE 1 WATER MAIN PLAN & PROFILE |
| 5 | PHASE 1 WATER MAIN PLAN & PROFILE |
| 6 | PHASE 1 WATER MAIN PLAN & PROFILE |
| 7 | PHASE 2 WATER MAIN PLAN |
| 8 | PHASE 2 WATER MAIN PROFILE |
| 9 | WATER MAIN NOTES & DETAILS |
| 10 | WATER MAIN NOTES & DETAILS |
| 11 | SEDIMENT & EROSION CONTROL NOTES AND DETAILS |
| 12 | SEDIMENT & EROSION CONTROL NOTES AND DETAILS |



VICINITY MAP TAX MAP 009 PARCEL 008 SCALE: 1" = 500'
TAX ID. 05-158680

FIRE & RESCUE NOTES:

- FIRE DEPARTMENT ACCESS ROADS SHALL BE ACCESSIBLE DURING ALL TYPES OF WEATHER AND AT ALL TIMES.
- FIRE DEPARTMENT ACCESS ROADS SHALL BE CAPABLE OF SUPPORTING FIRE APPARATUS AT ALL TIMES AND BE A MINIMUM OF 18 FEET WIDE.
- FIRE DEPARTMENT ACCESS SHALL BE PROVIDED AND MAINTAINED TO ALL STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION.
- THE ACCESS ROADWAYS SHALL PROVIDE A MINIMUM TURNING RADIUS OF 40 TO 45 FEET.
- STREETS AND FIRE HYDRANTS/WATER MAINS ARE REQUIRED TO BE CONSTRUCTED AND IN SERVICE PRIOR TO THE START OF ANY VERTICAL BUILDING CONSTRUCTION.
- FIRE LANES/STREETS PROVIDING ACCESS TO THE BUILDINGS WHILE UNDER CONSTRUCTION SHALL BE PROVIDED PRIOR TO THE START OF VERTICAL CONSTRUCTION OF THE BUILDINGS (NFPA 1, SECTION 16.1.4).
- ON-SITE FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE START OF VERTICAL CONSTRUCTION OF THE BUILDINGS (NFPA 1, 16.4.3.1.3).

PROJECT DESCRIPTION

PROJECT INCLUDES CONSTRUCTION (REPLACEMENT) OF APPROXIMATELY 1,300 L.F. OF 8" WATERLINE AND ASSOCIATED RESTORATION.

GENERAL INFORMATION FOR MINOR PLANS AND PROJECTS

- SWM NOTES:**
- STORMWATER QUALITY MANAGEMENT SHALL BE ADDRESSED THROUGH THE USE OF VEGETATED FILTERING AND OTHER BEST MANAGEMENT PRACTICES AS OUTLINED IN THE 2007 MARYLAND STORMWATER DESIGN MANUAL, CHAPTER 5, THE CURRENT LAND USE.
 - THE AREA DISTURBED SHALL NOT INFRINGE UPON WOODED AREA OR DEGRADE THE CURRENT LAND USE.
 - ALL DISTURBED AREA SHALL BE RETURNED TO A COMPARABLE OR BETTER CONDITION THAN WHAT PREVIOUSLY EXISTED.
 - REGRADED AREAS SHALL NOT FURTHER IMPACT OTHER PROPERTIES WITH RESPECT TO DRAINAGE.
 - THE TOP SIX-INCH BACKFILL LAYER LOCATED WITHIN GRASS AND/OR OTHER PREVIOUS AREAS IS NOT TO BE COMPACTED.

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____

TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____
DISTRICT MANAGER OR DESIGNEE

Date: _____
PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

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 _____

DISTURBED AREA QUANTITY

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 143,265 SQ. FT. AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY 1,200 CU. YDS. OF EXCAVATION AND APPROXIMATELY 1,200 CU. YDS. OF FILL.

J.H.C. _____ DATE 12/20/23
JOSEPH H. CECI, P.E. REG. NO. 30709

* 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.C. _____ DATE 12/20/23
JOSEPH H. CECI, P.E. REG. NO. 30709

STATE OF MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER AND SCIENCE ADMINISTRATION WETLANDS AND WATERWAYS PROTECTION PROGRAM AUTHORIZATION TO PROCEED

AUTHORIZATION NUMBER: 202361358/23-NT-3210

EFFECTIVE DATE: November 6, 2023

EXPIRATION DATE: November 6, 2028

AUTHORIZED PERSON: Town of Emmitsburg
300A S. Seton Ave
Emmitsburg, MD 21727
ATTN: Donald N. Briggs



IN ACCORDANCE WITH ENVIRONMENT ARTICLE §5-503(a) AND §5-906(b), ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME), COMAR 26.17.04 AND 26.23.01, AND 26.08.02 AND THE ATTACHED CONDITIONS OF AUTHORIZATIONS, Town of Emmitsburg ("AUTHORIZED PERSON"), IS HEREBY AUTHORIZED BY THE WATER AND SCIENCE ADMINISTRATION ("ADMINISTRATION") TO CONDUCT A REGULATED ACTIVITY IN A NONTIDAL WETLAND, BUFFER, OR EXPANDED BUFFER, AND/OR TO CHANGE THE COURSE, CURRENT OR CROSS-SECTION OF WATERS OF THE STATE, IN ACCORDANCE WITH THE ATTACHED PLANS APPROVED BY THE ADMINISTRATION ON November 6, 2023 ("APPROVED PLAN") AND PREPARED BY Fox & Associates, Inc. AND INCORPORATED HEREIN, AS DESCRIBED BELOW:

Replace 6" water main with a new 8" ductile iron water main to improve water pressure and quality in the Town. The project will temporarily impact 23,517 square feet of the 100-year nonflood plain. The project location is approx. 1800 ft to the end of Depaul Street in Frederick County.

MD Grid Coordinates: N 226246 E 372573

Heather L. Nelson
Heather L. Nelson
Program Manager
Wetlands and Waterways Protection Program

Attachments: Conditions of Authorization,
Approved Plans

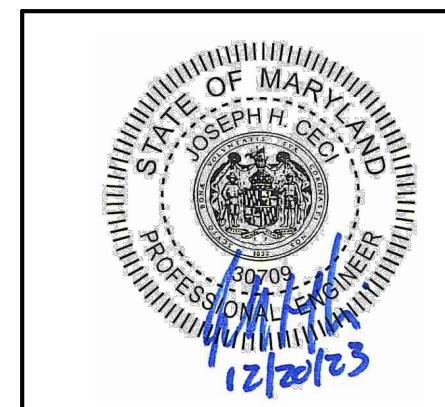
cc: WSA Compliance Division w/ file, Frederick Co.
Fox & Associates, Joseph Ceci

PREPARED BY

FOX & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

981 MT. AETNA ROAD HAGERSTOWN, MD. 21740
PHONE: (301)733-8503
or (301)416-7250
FAX: (301)733-1853
www.foxassociatesinc.com Email: FOXPREDESIGN@FOXASSOCIATESINC.COM

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



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: 12/23/24

BID SET 12/22/2023

CDD - Dev. Review

File: EMMITSBURG
A / P #: PW275756
Due Date: _____

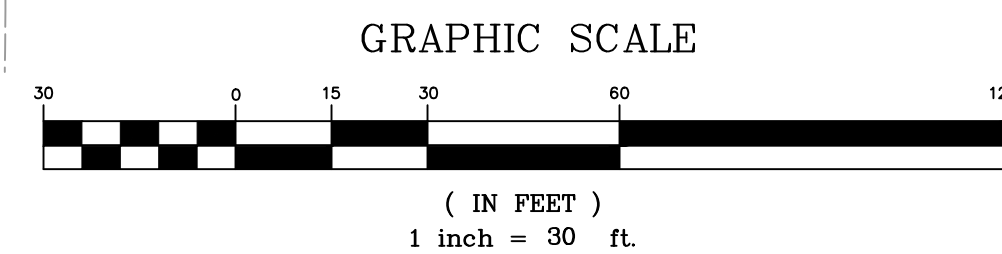
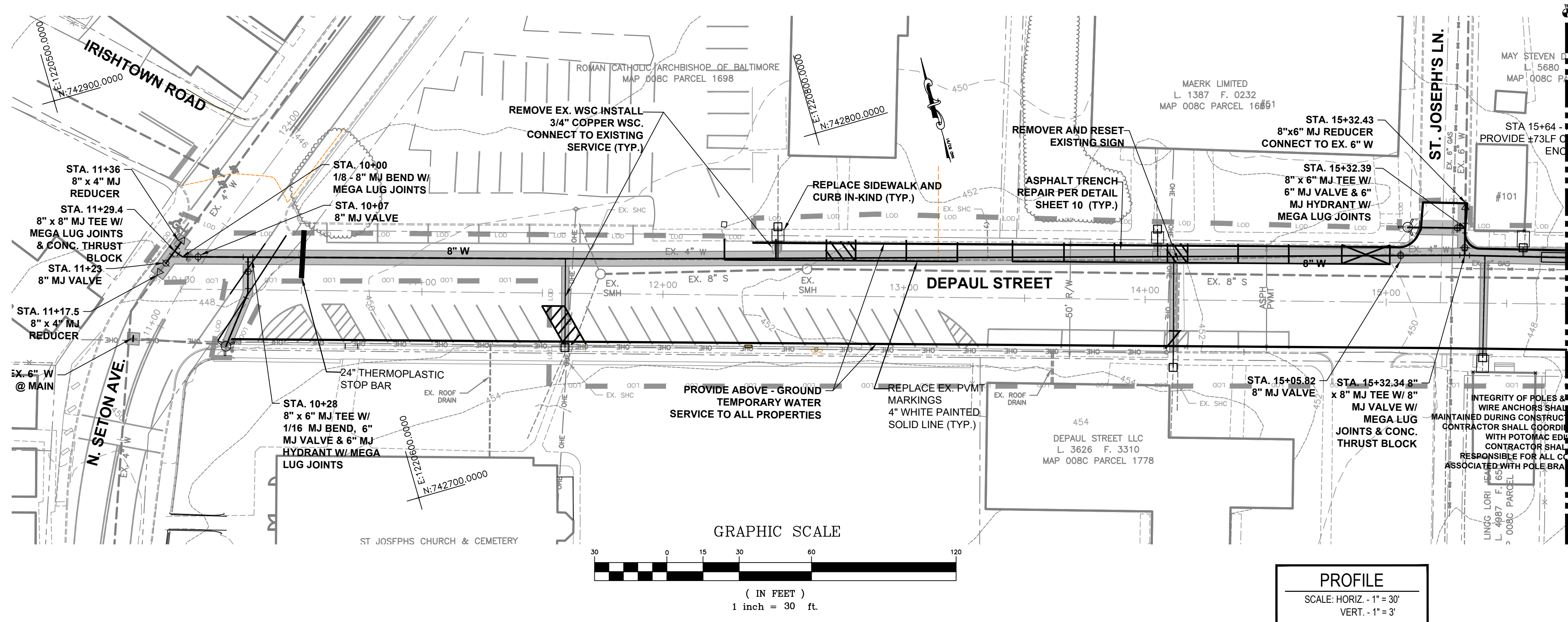
PROJECT NO. 23-31966
DRAWING NO. D-3609
DATE: DECEMBER 2023
DRAWN BY: JHC
CHECKED BY: JHC

SHEET 1 OF 12

OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727

| SOILS | HYDRAULIC SOILS GROUP |
|---|-----------------------|
| PnB PENN SILT LOAM, 3 TO 8 PERCENT SLOPES | B |
| PnC PENN SILT LOAM, 8 TO 15 PERCENT SLOPES | B |
| RgA READINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES | C |
| RwA ROWLAND SILT LOAM, 0 TO 3 PERCENT SLOPES | C |

DATE _____ REVISION _____

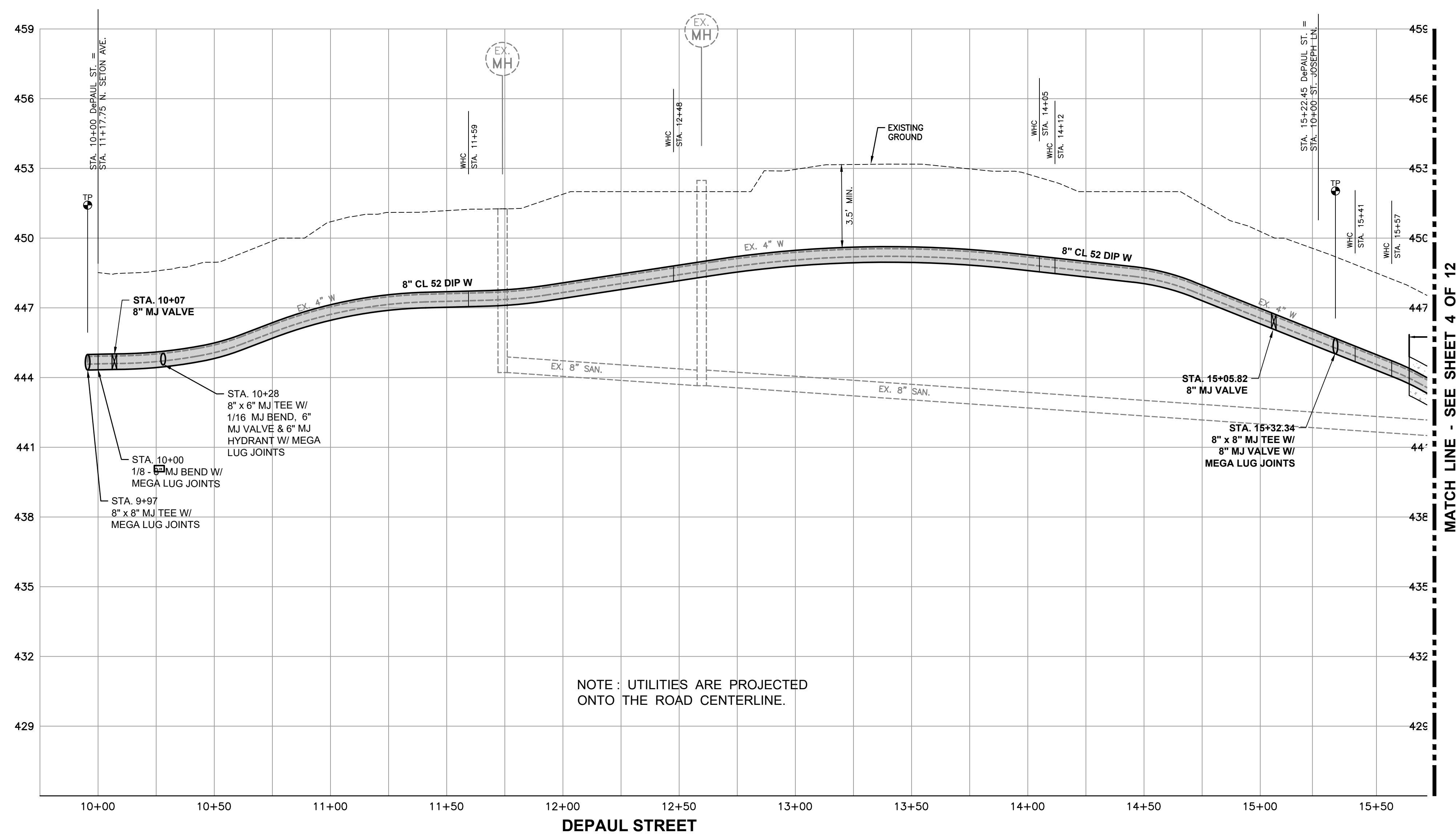


PROFILE
SCALE: HORIZ. - 1" = 30'
VERT. - 1" = 3'

- NOTES:**
- CONTRACTOR MUST TEST PIT EXISTING UTILITIES TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSPECTOR OF ANY DISCREPANCIES.
 - 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.
 - ROADWAY EMBANKMENT STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASSHTO T-180 METHOD "C". UTILITY TRENCH STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY ASSHTO T-99 METHOD "A" OR AS MODIFIED BY THE GEOTECHNICAL ENGINEER.
 - ALL EXISTING WATERMAIN THAT IS BEING REPLACED BY THIS CONTRACT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
 - ALL WATERMAIN SHALL HAVE 3'-6" MINIMUM COVER BELOW EXISTING GROUND.
 - THE CONTRACTOR SHALL COORDINATE SHUT DOWN WITH TOWN OF EMMITSBURG PERSONNEL.
 - CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE INTEGRITY OF POLES & GUY WIRE ANCHORS DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH FIRST ENERGY TO DETERMINE THE NEED FOR POLE BRACING.

TEMPORARY WATER SERVICE

THE CONTRACTOR SHALL PROVIDE A TEMPORARY WATER SERVICE LINE FOR THIS PROJECT. THE TEMPORARY SERVICE LINE MUST BE PLACED IN A MANNER THAT ALLOWS INGRESS/EGRESS TO PRIVATE PROPERTY AND PUBLIC STREET ALLEYS. THE CONTRACTOR SHALL PREPARE A DETAILED TEMPORARY SERVICE PLAN AND SUBMIT IT FOR TOWN APPROVAL PRIOR TO STARTING CONSTRUCTION. THE SEQUENCE OF CONSTRUCTION SHALL BE DETERMINED BY THE ENGINEER.



NOTE: UTILITIES ARE PROJECTED ONTO THE ROAD CENTERLINE.

FOX & ASSOCIATES INC.
Est. 1966

ENGINEERS-SURVEYORS-PLANNERS

82 MORMANS MILL COURT
FREDERICK, MD. 21701
PHONE: (301) 695-0880
FAX: (301) 695-6069
WWW.FOXASSOCIATESINC.COM Email: FOX@FOXASSOCIATESINC.COM

| | |
|-----------|--|
| DRAWN BY: | |
| REVISION: | |
| DATE: | |

WATER MAIN PLAN AND PROFILE

TOWN OF EMMITSBURG

DEPAUL ST WATER MAIN REPLACEMENT

PHASE 1

SITUATED ALONG DEPAUL STREET

TOWN OF EMMITSBURG

FREDERICK COUNTY, MARYLAND

BID SET 12/22/2023

SCALE: AS NOTED

PROFESSIONAL CERTIFICATION

APPROVED BY:

TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____

TOWN PLANNING DEPARTMENT _____ DATE _____

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. 307109 EXP. DATE: 7/23/24

FREDERICK SOIL CONSERVATION DISTRICT

SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____ DISTRICT MANAGER OR DESIGNEE

Date: _____

PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL.

| | |
|-------------|---------------|
| PROJECT NO. | 23-31966 |
| DRAWING NO. | D-3609 |
| DATE: | DECEMBER 2023 |
| DRAWN BY: | JHC |
| CHECKED BY: | JHC |

OWNER / DEVELOPER

TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727

SOD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

- GENERAL NOTES**
- OWNER: TOWN OF EMMITSBURG MARYLAND
300A SOUTH SETON AVE
EMMITSBURG, MD 21727
 - TOPOGRAPHY: THE TOPOGRAPHIC SURVEY IS FIELD RUN BY FOX & ASSOCIATES, INC. DATED MAY 2023. VERTICAL DATUM IS BASED ON NAVD83. HORIZONTAL DATUM IS BASED ON MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83/91.
 - FLOODPLAIN: THE 100 YEAR FLOODPLAIN IS SHOWN PER THE FREDERICK COUNTY, MARYLAND FLOOD INSURANCE RATE MAP COMMUNITY PANEL #24021C0055D.
 - WETLANDS: THERE ARE NO WETLANDS ON THE PROJECT SITE PER THE NATIONAL WETLAND INVENTORY MAP.
 - SUBSURFACE: FOX & ASSOCIATES, INC. HAS PERFORMED NO SUBSURFACE INVESTIGATION TO DETERMINE LOCATIONS OF ROCK, SOIL TYPES, WATER TABLE, UTILITIES, ETC.
 - ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE TOWN OF EMMITSBURG, FREDERICK COUNTY DWSU GENERAL CONDITIONS AND STANDARD SPECIFICATIONS FOR WATER MAINS, SANITARY SEWERS AND RELATED STRUCTURES AND THE MDOT SHA 2023 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
 - CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-267-7777, FREDERICK COUNTY ENVIRONMENTAL COMPLIANCE SECTION (301-600-3507), TOWN OF EMMITSBURG DPW AT (301) 600-6300, AND MDOT SHA DISTRICT 7 (301) 624-8225, SEVENTY-TWO (72) HOURS PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
 - ALL CONSTRUCTION STATIONING IS APPROXIMATE AND MAY BE ADJUSTED IN ORDER TO MEET FIELD CONDITIONS. CONTACT THE TOWN OF EMMITSBURG INSPECTOR, FOX & ASSOCIATES, INC. AT 301-695-0880, AND MDOT SHA DISTRICT 7 (301) 624-8225 PRIOR TO MAKING ANY MODIFICATIONS.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE UTILIZATION OF MEN, MATERIALS, EQUIPMENT OR SAFETY MEASURES IN THE PERFORMANCE OF ANY WORK ON THIS PROJECT. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
 - ALL MATERIALS EXCAVATED WHICH ARE UNSUITABLE FOR BACKFILL SHALL BE DISPOSED OF AT AN APPROVED LOCATION THAT HAS AN ACTIVE PERMIT FOR DISPOSAL OF EACH CATEGORY OF MATERIAL BEING DISPOSED OF.
 - PLACEMENT OF ANY CONCRETE WORK SUCH AS CURB/GUTTERS/SIDEWALKS/DRIVEWAY APRONS/ETC. SHALL BE COMMENCED ONLY AFTER THE RELOCATION AND INSTALLATION OF ALL UTILITIES INCLUDING GAS LINES/ELECTRICAL LINES/ STREET LIGHTING CONDUITS/CONDUITS/TELEVISION CABLE/WATER AND SEWER LINES/ETC. ARE IN PLACE.
 - JOB SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - 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 FEDERAL REGULATIONS.
 - SOILS INFORMATION TAKEN FROM "SOILS SURVEY OF FREDERICK COUNTY", 2014 EDITION.
 - WHEN WORKING IN THE AREA OF AN EXISTING GAS LINE, THE CONTRACTOR SHALL HAVE THE COLUMBIA GAS COMPANY VERIFY THAT NO LEAKS EXIST PRIOR TO ANY WORK IN THE AREA. A GAS COMPANY REPRESENTATIVE MUST BE PRESENT AT THE PROJECT SITE BEFORE ANY BLASTING WITHIN 20 FEET OF GAS LINES. ANY EXCAVATION WITHIN 5 FEET OF A GAS LINE SHALL BE DONE BY HAND. THE CONTRACTOR, OR THE CONTRACTOR'S REPRESENTATIVE SHALL GET APPROVAL FROM THE GAS COMPANY FOR ANY WORK WITHIN A GAS LINE EASEMENT AREA.
 - TOWN WATER MAINS TO BE 12" DUCTILE IRON PIPE. PIPE SHALL BE BITUMINOUS COATED OUTSIDE AND CEMENT LINED WITH DOUBLE THICKNESS INSIDE IN ACCORDANCE WITH AWWA C104. CURE CEMENT LINING WITH A BITUMINOUS SEAL COAT. UNLESS OTHERWISE NOTED AND INSTALLED WITH A MINIMUM 3.5' OF COVER AND IN ACCORDANCE WITH THE PLUMBING CODE.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES ARE SHOWN FROM 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.
 - 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 OR BETTER.
 - EXCAVATION WITHIN A STATE ROAD RIGHT-OF-WAY WILL REQUIRE A PERMIT ISSUED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA).
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE STORM DRAINAGE SYSTEM FOR THE DURATION OF THE CONTRACT.
 - CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS NOTED IN SECTION 104, THE TEMPORARY TRAFFIC CONTROL SECTION, OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S BOOK OF STANDARDS, LATEST EDITIONS.
 - CONTRACTOR SHALL NOT TAP OR OTHERWISE PENETRATE EXISTING SEWER MAINLINES WITHOUT PRIOR APPROVAL FROM TOWN OF EMMITSBURG DIRECTOR OF PUBLIC WORKS AND/OR SEWER/WATER SUPERINTENDENT.
 - CONTRACTOR IS RESPONSIBLE TO AVOID SPILLAGE OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER PLUGGING AND PUMPING AND CONTAINMENT EQUIPMENT NECESSARY TO AVOID SPILLAGE.
 - ALL BENCHMARKS SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION UNTIL TOWN HAS GRANTED FINAL APPROVAL TO THE PROJECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING DIRT, DEBRIS AND MUD FROM ENTERING ALL ROADWAYS. IF DUST, DIRT, DEBRIS AND MUD HAPPEN TO OVERRIDE PREVENTION MEASURES AND ENTER THE ROADWAY, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN THE ROADWAY AS SOON AS POSSIBLE, AT HIS/HER EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELIMINATION OF DUST IN THE AIR BY THE REQUIRED WATERING OF THE GROUND AS NEEDED.
 - THE CONTRACTOR SHALL NOT (1) STAGE WORK, (2) STORE MATERIALS OR (3) PERMIT PARKING OF EQUIPMENT AND/OR CONSTRUCTION-RELATED VEHICLES IN THE PUBLIC RIGHTS-OF-WAY OR PUBLICLY-OWNED PROPERTY WITHOUT PRIOR APPROVAL OF THE TOWN OF EMMITSBURG AND/OR MDOT SHA DISTRICT 7, WHERE PRACTICAL AND TO THE DEGREE POSSIBLE, THE ENGINEER SHALL DESIGNATE ON THESE PLANS APPROPRIATE SPACE THAT CAN BE UTILIZED FOR THE ABOVE PURPOSES. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ENSURE THAT PROPER AND APPROPRIATE AREAS ARE SECURED FOR THESE USES FOR THE DURATION OF THE PROJECT.
 - CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO TEMPORARY AND PERMANENT TRAFFIC CONTROL (PAVEMENT MARKINGS, SIGNAGE, SIGNALIZATION, TRAFFIC BARRIERS, FLAGGERS, ETC.).
 - THE SITE SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE MARYLAND ACCESSIBILITY CODE (MAC), THE AMERICAN DISABILITIES ACT (ADA), AND ANSI A117.1, IF THERE ARE CONFLICTING REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.
 - IF ROAD OR ANY PART OF ROAD IS TO BE CLOSED, A DETAILED DETOUR AND/OR CLOSURE PLAN SHALL BE SUBMITTED TO THE TOWN OF EMMITSBURG AND MDOT SHA DISTRICT 7, FOR APPROVAL.
 - IF TEMPORARY PARKING, INGRESS/EGRESS OR PEDESTRIAN RESTRICTIONS SHALL BE REQUIRED DURING PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SIGNS AND NOTIFYING ALL AFFECTED RESIDENTS/BUSINESSES AT LEAST 1 DAY IN ADVANCE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING APPROPRIATE TOWN AUTHORITY BEFORE ANY OF THE ABOVE MODIFICATIONS ARE ENACTED.
 - ALL CONTRACTORS MUST COMPLY WITH ALL APPLICABLE TOWN, STATE AND FEDERAL LABOR AND INDUSTRY REGULATIONS TO INCLUDE TOWN SAFETY & HEALTH POLICY, MOSHA, OSHA, ETC.
 - IN ACCORDANCE WITH CODE OF MARYLAND (COMAR) 26.04.01.33, MATERIALS USED IN THE MANUFACTURE OF PUBLIC WATER SUPPLY COMPONENTS, APPURTENANCES, STORAGE TANK, VALVE, FITTURE, OR OTHER MATERIALS WHICH MUST MEET CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY MUST MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NATIONAL SANITATION FOUNDATION (NSF 61-G AND NSF 61-372) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES, THIS APPLIES TO ANY PRODUCT WHICH COMES IN CONTACT FOR USE IN PUBLIC WATER SUPPLY.
 - THESE DRAWINGS REPRESENT THE FINISHED PRODUCT, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL OR TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PORTIONS OF THE WORK.
 - STORMWATER MANAGEMENT FOR THIS SITE WILL BE IN ACCORDANCE WITH THE MARYLAND 2007 STORMWATER MANAGEMENT ACT AND THE FREDERICK STORMWATER MANAGEMENT ORDINANCE.

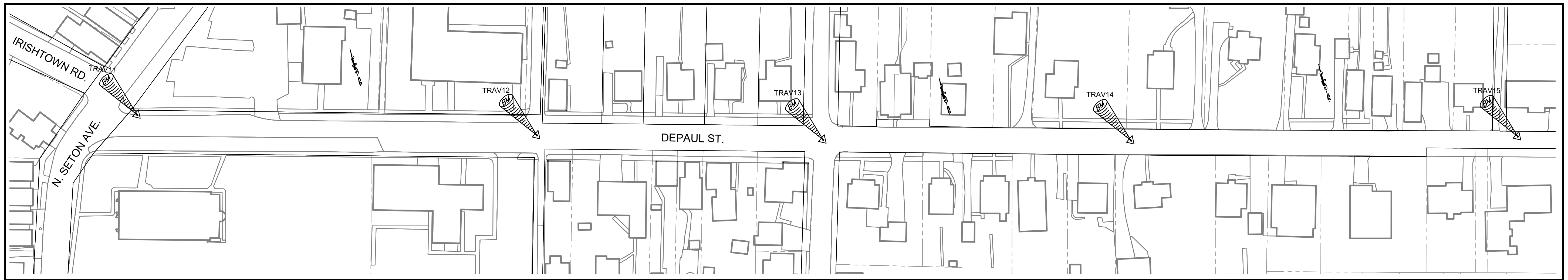
- WATER LINE INSTALLATION REQUIREMENTS**
- THE TOWN OF EMMITSBURG REQUIRES ALL CONTRACTORS WHO INSTALL NEW WATER MAINS TO FOLLOW THE PROCEDURES LISTED BELOW BEFORE ANY MAINS ARE TO BE CONNECTED TO THE TOWN'S WATER DISTRIBUTION SYSTEM.
- WHEN FILLING THE PIPE WITH WATER, AN APPROVED LIQUID CHLORINE SLURRY WILL BE ADDED TO THE FILL WATER. WHEN THE PIPE IS FULL, CHECK FOR CHLORINE LEVEL IN PIPE.
 - A TWO-HOUR HYDROSTATIC LEAK TEST WILL BE CONDUCTED AT A PRESSURE NO LESS THAN ONE HUNDRED FIFTY (150) POUNDS PSI.
 - AFTER THE TWO-HOUR LEAK TEST HAS BEEN APPROVED BY THE TOWN, A TWENTY-FOUR (24) HOUR TEST WILL BE DONE AT THE TOWN'S NORMAL OPERATING PRESSURE. CURRENTLY, THE NORMAL OPERATING PRESSURE IS APPROXIMATELY EIGHTY (80) POUNDS PSI. THE TOWN REPRESENTATIVE WILL NOTIFY YOU IF THIS PRESSURE HAS CHANGED.
 - AFTER THE TWENTY-FOUR (24) HOUR LEAK TEST, THE TOWN REQUIRES THE PRESSURE TO BE TAKEN UP TO A MINIMUM OF ONE HUNDRED FIFTY (150) POUNDS PSI FOR FIFTEEN (15) MINUTES. RECORD THE AMOUNT OF WATER REQUIRED TO RETURN THE PRESSURE TO THE LOW PRESSURE TEST LEVEL AND THE HIGH PRESSURE TEST LEVEL. ONCE APPROVAL IS ACQUIRED, THE MAIN IS TO BE FLUSHED OUT UNTIL A 1.0 MG/L CHLORINE RESIDUAL IS MET. THE TESTING WILL BE DONE BY THE TOWN. THE FLUSHING WATER WILL BE DISCHARGED INTO A SANITARY SEWER. AT NO TIME WILL THE DISCHARGE WATER BE ALLOWED TO RUN OFF, CAUSING ANY DISCHARGE INTO ANY NEARBY STREAMS OR FIELDS.
 - ONCE THE CHLORINE RESIDUAL OF 1.0 MG/L HAS BEEN MET, A BACTERIAL SAMPLE WILL BE COLLECTED BY THE TOWN OF EMMITSBURG WATER DEPARTMENT.
 - ONCE THE RESULTS FROM THE LAB SHOW THE WATER IS SAFE FOR HUMAN CONSUMPTION, THE MAIN CAN THEN BE APPROVED TO BE CONNECTED INTO THE DISTRIBUTION SYSTEM.
 - THE TOWN REQUIRES FORTY-EIGHT (48) HOURS ADVANCED NOTICE BEFORE THE TESTING IS TO BE DONE.
- ACCORDING TO MDE, "WATERLINE BACTERIAL TESTING REQUIREMENT: DISINFECTION AND VERIFICATION TESTING WILL BE PERFORMED IN ACCORDANCE WITH AWWA C651-05, OR LATEST EDITION. THE CONTRACTOR SHALL BE REQUIRED TO HAVE BACTERIAL TESTING PERFORMED ON ALL NEW "PUBLIC" WATER MAINS TO DEMONSTRATE BACTERIAL LEVELS MEET STATE MDE REQUIREMENTS PRIOR TO THE TOWN GRANTING CONDITIONAL ACCEPTANCE OF THE LINES. REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO OBTAINING TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES THAT ARE COLLECTED IN MINIMUM OF 24 HOURS APART. ONE SAMPLE SHALL BE COLLECTED FOR EVERY 1,200 FEET END OF EACH BRANCH, AND THE END OF THE LINE FOR RESIDUAL CHLORINE. TOTAL COLIFORM AND E. COLI ANALYSIS. AFTER DISINFECTION THE LINE MUST BE FLUSHED. CHLORINE RESIDUAL SAMPLES MUST YIELD A RESULT OF 1.0 PPM OR LESS BEFORE TOTAL COLIFORM OR E. COLI ANALYSIS MAY BE PERFORMED BY INDIVIDUALS CERTIFIED FOR DRINKING WATER SAMPLE COLLECTION BY THE MARYLAND DEPARTMENT OF ENVIRONMENT. LABORATORIES UTILIZED FOR THE ANALYSIS SHALL BE CERTIFIED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR TOTAL COLIFORM AND E. COLI ANALYSIS. IF THE CONTRACTOR HAS ALLOWED CONTAMINANTS TO ENTER THE PIPE DURING CONSTRUCTION (THIS SHALL BE DETERMINED BY INSPECTOR) THEN SAMPLING MAY BE REQUIRED AT REDUCED DISTANCE INTERVALS AS RESIDUAL 1.0 PPM OR LESS) WILL STAND IN THE LINE FOR AT LEAST 16 HOURS AFTER THE FINAL FLUSH. CERTIFIED BACTERIAL TEST RESULTS SHALL BE PROVIDED TO THE TOWN AND SHALL INCLUDE CERTIFICATION INFORMATION FOR BOTH THE SAMPLE COLLECTOR AND LABORATORY."

ABBREVIATIONS

| | |
|---------|----------------------------------|
| ALCMP | ALUMINIZED CORRUGATED METAL PIPE |
| BF | BASEMENT FLOOR |
| BM | BENCHMARK |
| BVCE | BEGIN VERTICAL CURVE ELEVATION |
| BVCS | BEGIN VERTICAL CURVE STATION |
| COG | CURB INLET ON GRADE |
| CONC | CONCRETE |
| COS | CURB INLET IN SUMP |
| CMP | CORRUGATED METAL PIPE |
| DIA | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| E | EXISTING |
| EQ | EQUAL |
| ESMT | EASEMENT |
| EVCE | END VERTICAL CURVE ELEVATION |
| EVCS | END VERTICAL CURVE STATION |
| EX | EXISTING |
| FF | FIRST FLOOR |
| FH | FIRE HYDRANT |
| FULL | FULL SUPER ELEVATION |
| FUT | FUTURE |
| INV | INVERT |
| LF | LINEAR FEET |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| MJ | MECHANICAL JOINT |
| NC | NORMAL CROWN |
| P | PROPOSED |
| PAD | ELEVATION FOR STRUCTURAL FILL |
| PC | POINT OF CURVATURE |
| PGL | PROPOSED GRADE LINE |
| PL | PROPERTY LINE |
| PR | PROPOSED |
| PROP | PROPOSED |
| PT | POINT OF TANGENT |
| PVC | POLYVINYL CHLORIDE |
| PVMT | PAVEMENT |
| RC | REMOVE CROWN |
| RCP | REINFORCED CONCRETE PIPE |
| RW | RIGHT-OF-WAY |
| S | SEWER (SANITARY) |
| SAN | SEWER (SANITARY) |
| SCOE | STABILIZED CONSTRUCTION ENTRANCE |
| SF | SILT FENCE |
| SSF | SUPER SILT FENCE |
| SW | SIDEWALK |
| SWM | STORMWATER MANAGEMENT |
| TEMP | TEMPORARY |
| TP | TEST PIT |
| TRAV PT | TRAVERSE POINT |
| TYP | TYPICAL |
| VF | VERTICAL FEET |
| W | WATER |
| W/L | WATERLINE |
| WT | WATER TIGHT |

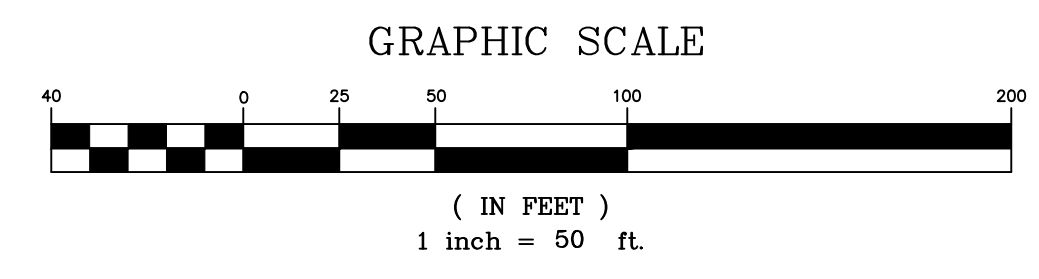
LEGEND

| | | |
|-----|------------------------------|-------------------------|
| --- | EX. CONTOUR (2' INTERVAL) | |
| --- | EX. CONTOUR (10' INTERVAL) | |
| --- | PROP. CONTOUR (2' INTERVAL) | |
| --- | PROP. CONTOUR (10' INTERVAL) | |
| --- | SOILS LINE | |
| --- | PROPOSED STORM DRAIN | |
| --- | EXIST. WATER | |
| --- | PROPOSED WATERLINE | |
| --- | PROPOSED FIRE HYDRANT | |
| --- | WATER VALVE | |
| --- | CITY/COUNTY CORPORATE LIMITS | |
| --- | EXIST UTILITY POLE | |
| --- | TREE LINE | |
| --- | SINGLE TREE | |
| --- | EXIST. SIGNS | |
| --- | STREAM | |
| --- | SF | SILT FENCE |
| --- | SSF | SUPER SILT FENCE |
| --- | FL-12 | COMPOST FILTER LOG |
| --- | --- | INLET PROTECTION |
| --- | --- | EXISTING GUARD RAIL |
| --- | --- | LIMITS OF DISTURBANCE |
| --- | --- | DEMOLITION LINE |
| --- | --- | EXIST. GAS |
| --- | --- | PROP. GAS |
| --- | --- | UNDERGROUND ELECTRIC |
| --- | --- | OVERHEAD ELECTRIC |
| --- | --- | UNDERGROUND FIBER OPTIC |
| --- | --- | PROP. SEWER |
| --- | --- | EXIST. SEWER |
| --- | --- | EXIST. EASEMENT |
| --- | --- | PROP. EASEMENT |



BENCHMARKS

| POINT # | NORTHING | EASTING | ELEVATION |
|---------|-------------|--------------|-----------|
| TRAV 11 | 742811.9080 | 1220592.7090 | 448.78 |
| TRAV 12 | 742661.4730 | 1221030.8880 | 449.69 |
| TRAV 13 | 742565.2385 | 1221347.9598 | 434.51 |
| TRAV 14 | 742466.1211 | 1221690.2892 | 418.33 |
| TRAV 15 | 742347.2455 | 1222121.8654 | 397.28 |



BID SET 12/22/2023

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____

TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

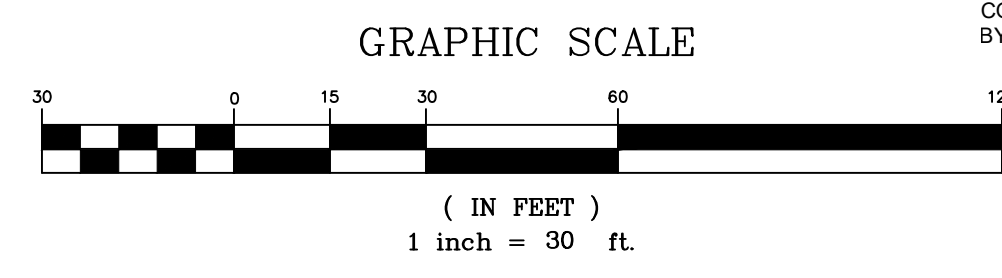
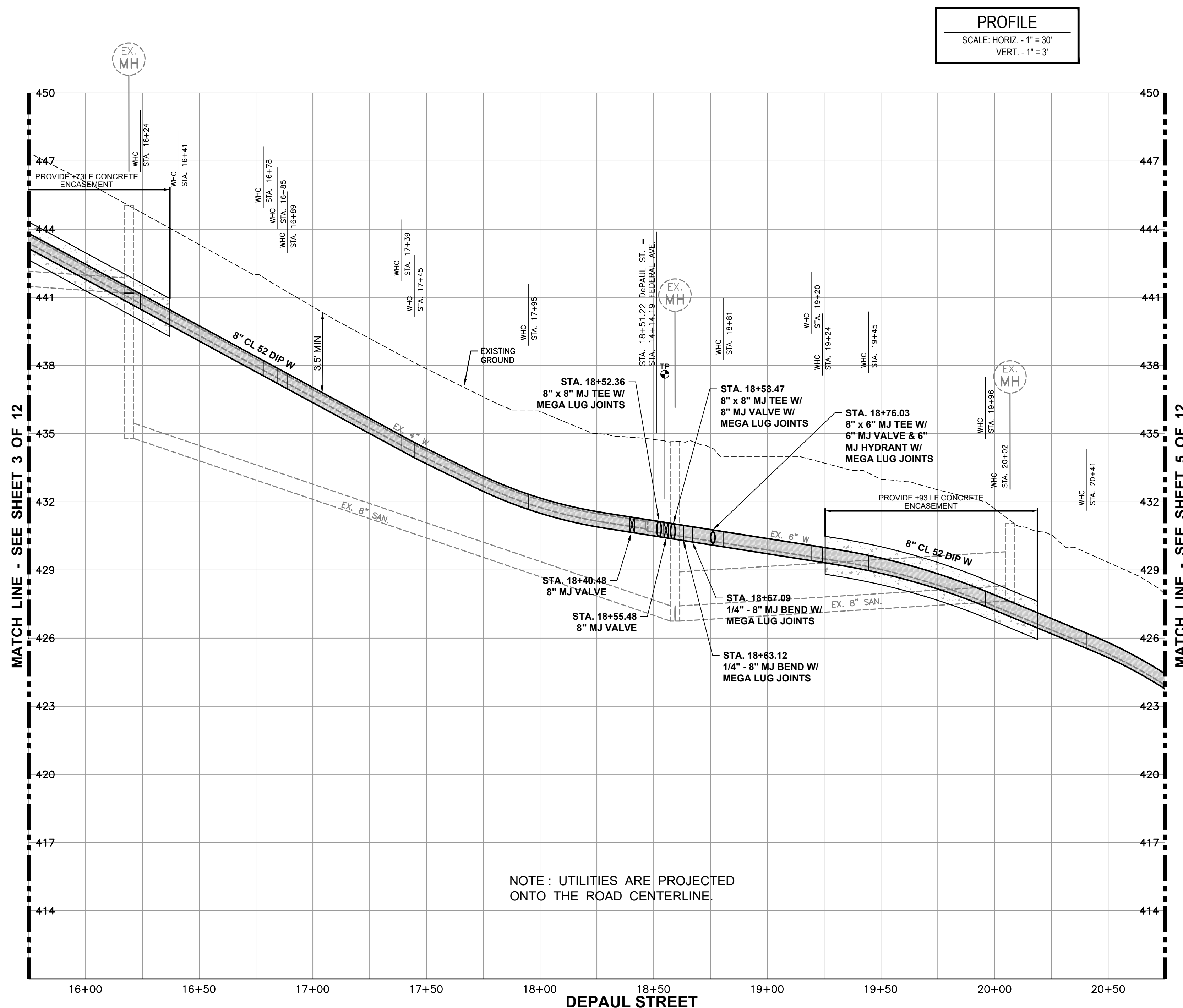
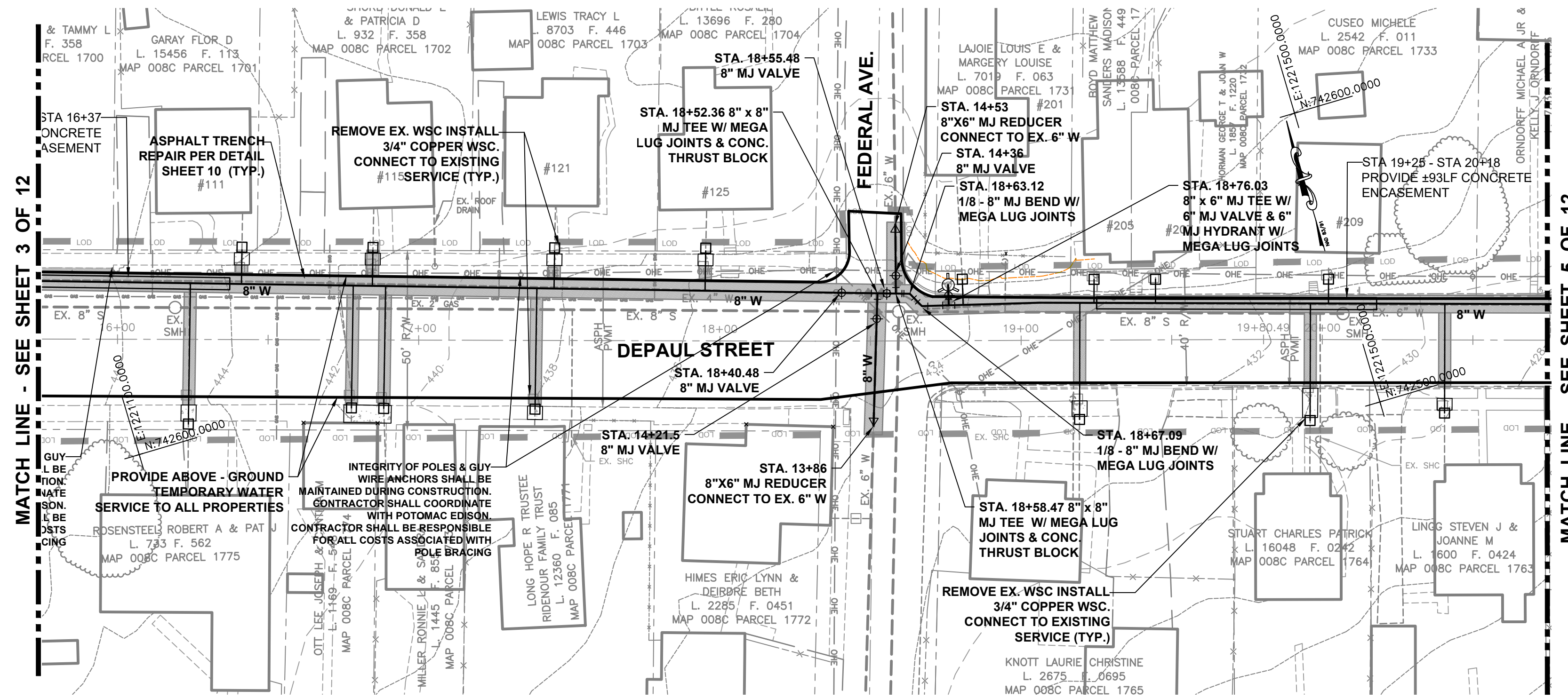
By: _____ DISTRICT MANAGER OR DESIGNEE

Date: _____

PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE
EMMITSBURG, MD 21727



- NOTES:**
- CONTRACTOR MUST TEST PIT EXISTING UTILITIES TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSPECTOR OF ANY DISCREPANCIES.
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NOTE : UTILITIES ARE PROJECTED ONTO THE ROAD CENTERLINE.

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FOX & ASSOCIATES, INC.
 ENGINEERS-SURVEYORS-PLANNERS
 961 MT. AETNA ROAD
 HAGERSTOWN, MD. 21740
 PHONE: (301)735-8603
 or (301)416-7250
 FAX: (301)735-6009
 WWW.FOXASSOCIATESINC.COM Email: FOX@FOXASSOCIATESINC.COM

| | |
|-----------|--|
| DRAWN BY: | |
| REVISION: | |
| DATE: | |

WATER MAIN PLAN AND PROFILE
TOWN OF EMMITSBURG
DEPAUL ST WATER MAIN REPLACEMENT
PHASE 1
 SITUATED ALONG DEPAUL STREET
 TOWN OF EMMITSBURG
 FREDERICK COUNTY, MARYLAND

SCALE: AS NOTED



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. 23-31966
 DRAWING NO. D-3609
 DATE: DECEMBER 2023
 DRAWN BY: JHC
 CHECKED BY: JHC

OWNER / DEVELOPER
 TOWN OF EMMITSBURG, MARYLAND
 300A SOUTH SETON AVE.
 EMMITSBURG, MD 21727

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____
 TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
 SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

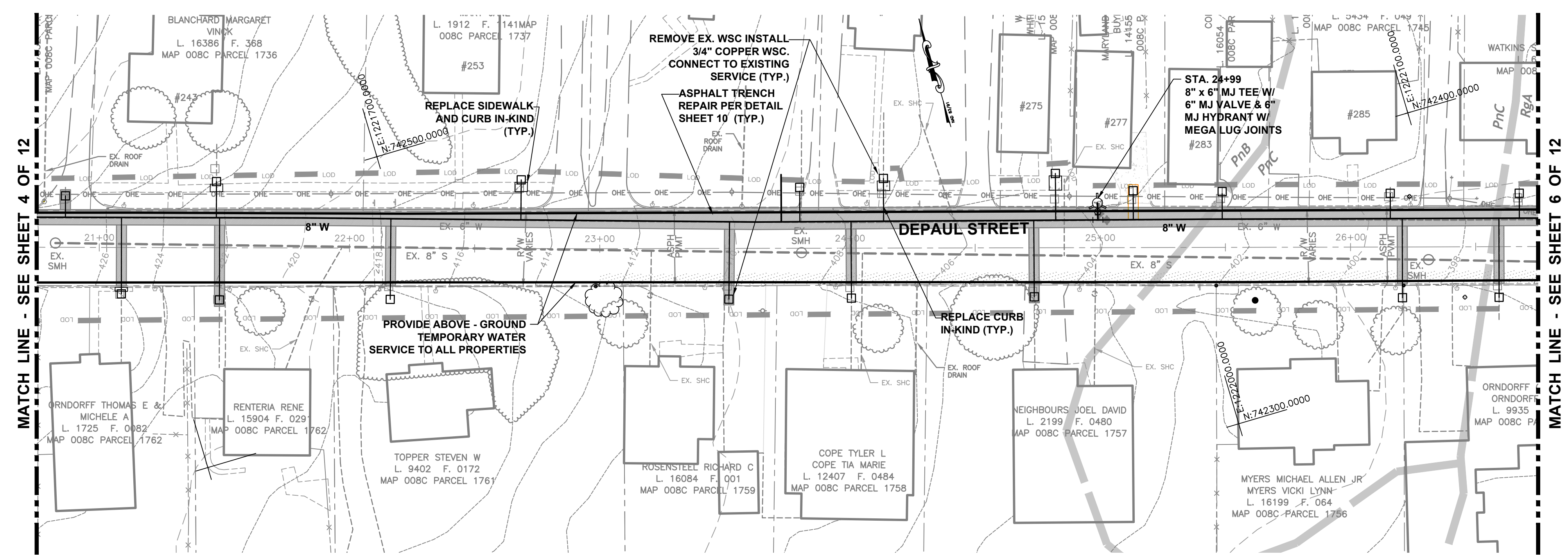
By: _____
 DISTRICT MANAGER OR DESIGNEE

Date: _____
 PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

BID SET 12/22/2023

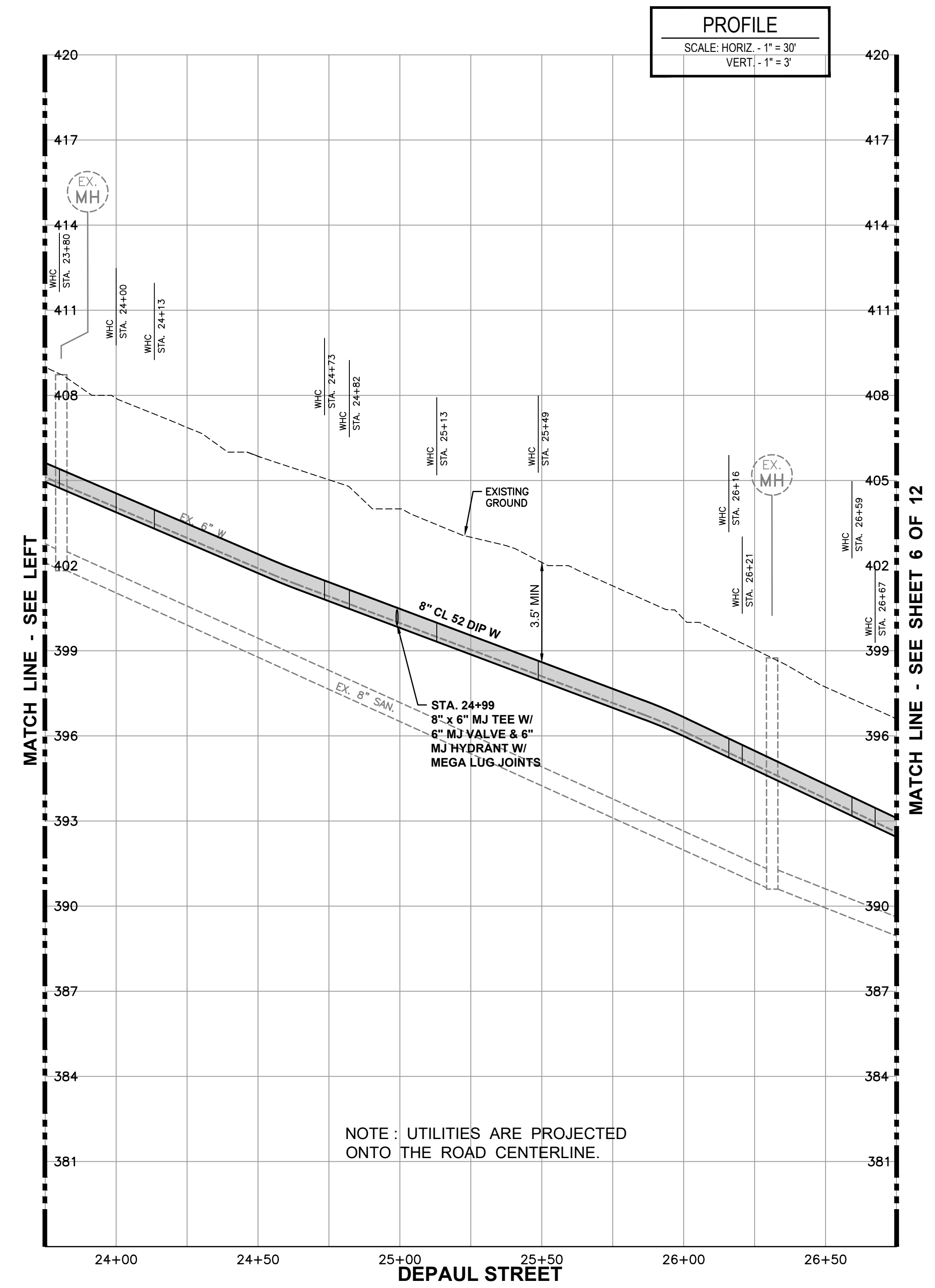
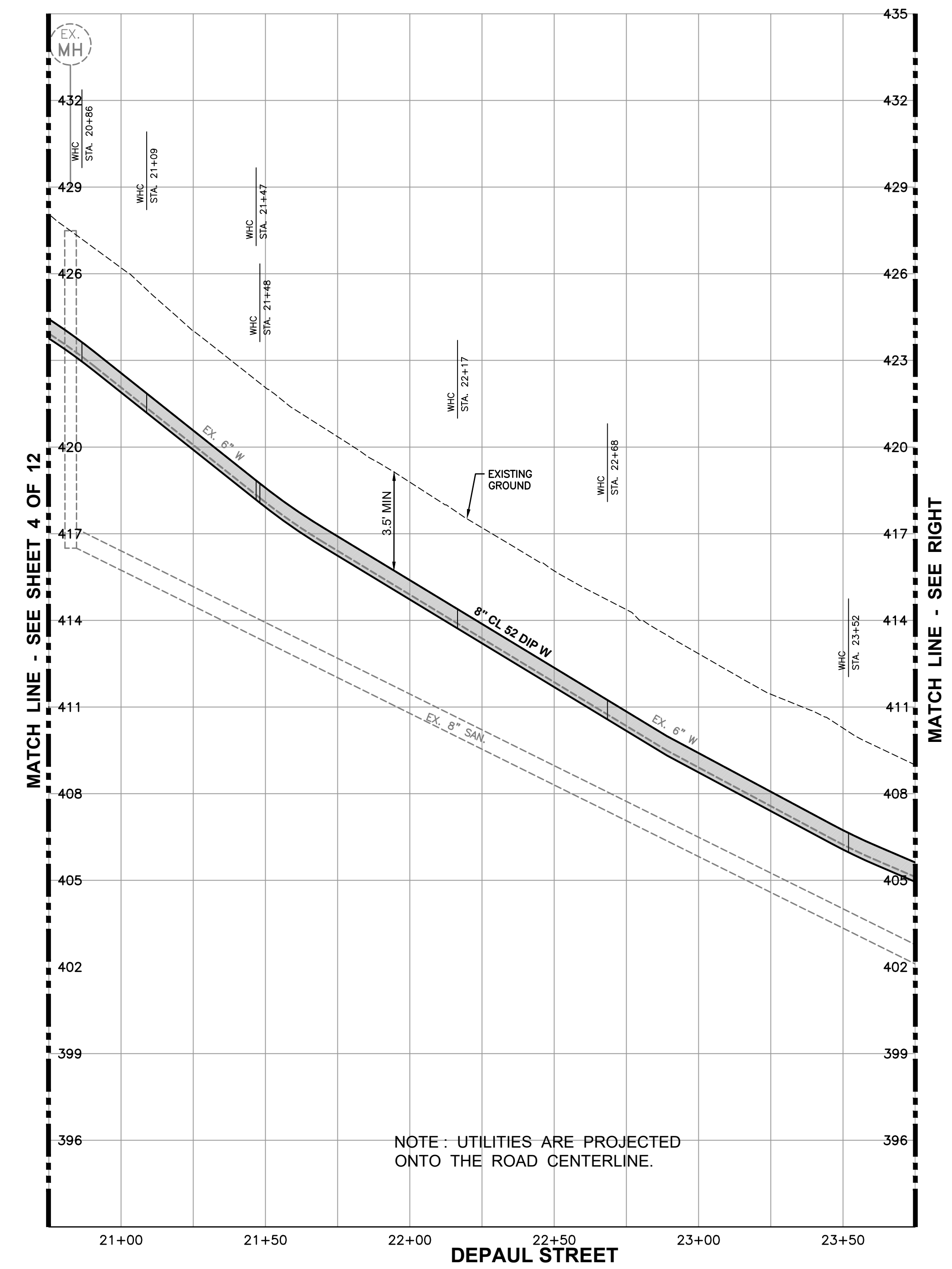
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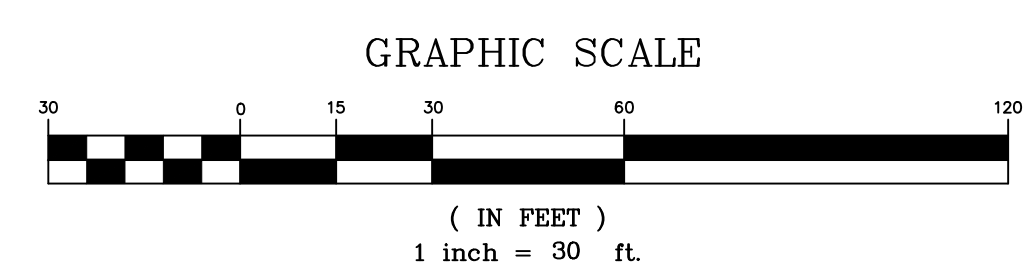
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PROFILE
SCALE: HORIZ. - 1" = 30'
VERT. - 1" = 3'



OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727

NOTE: UTILITIES ARE PROJECTED ONTO THE ROAD CENTERLINE.

NOTE: UTILITIES ARE PROJECTED ONTO THE ROAD CENTERLINE.

BID SET 12/22/2023

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____

TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____ DISTRICT MANAGER OR DESIGNEE

Date: _____ PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

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FOX & ASSOCIATES INC.
Est. 1966

ENGINEERS-SURVEYORS-PLANNERS

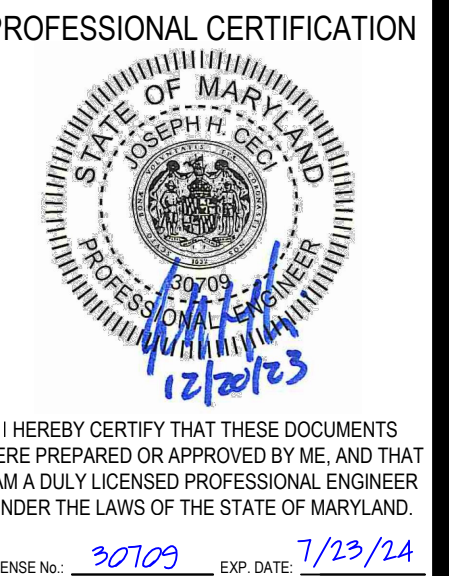
82 NORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301) 695-0880
FAX: (301) 293-6009

WWW.FOXASSOCIATESINC.COM Email: FOX@FOXASSOCIATESINC.COM

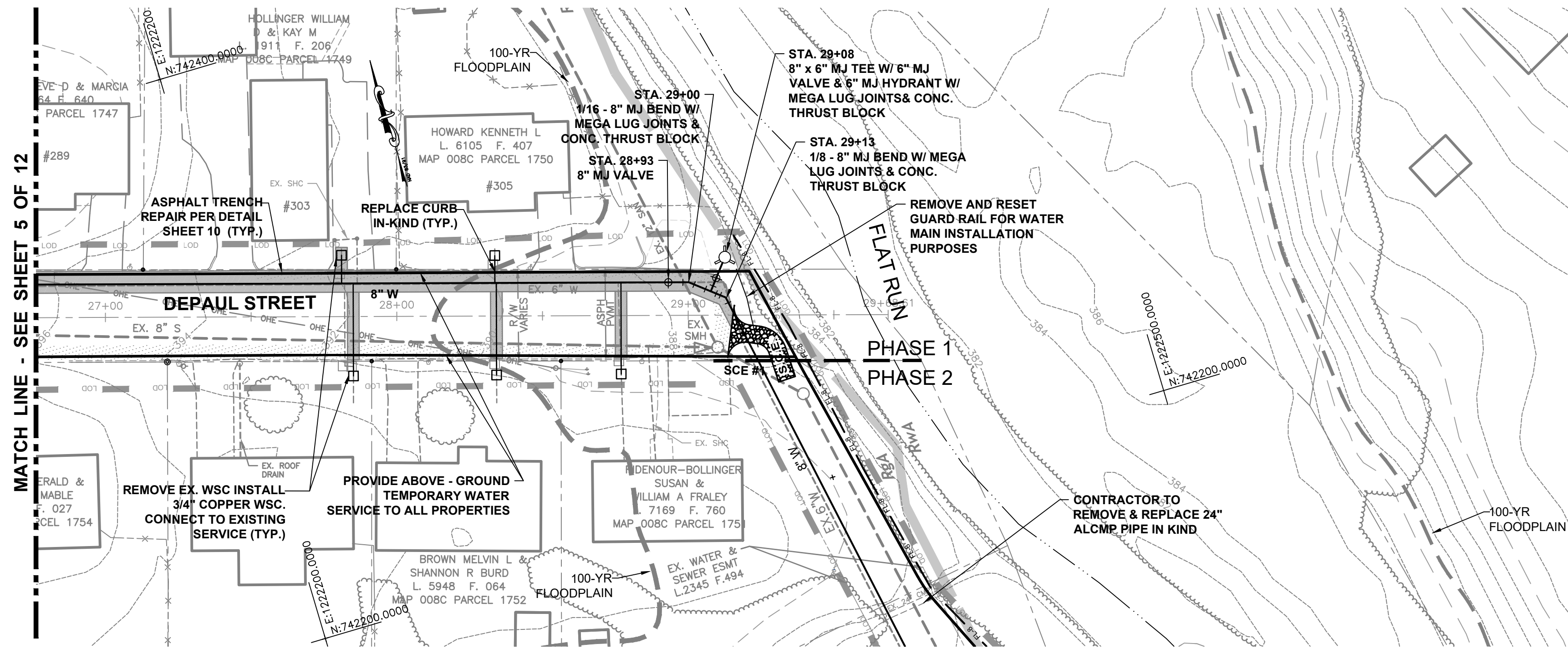
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| DRAWN BY: | |
| REVISION: | |
| DATE: | |

WATER MAIN PLAN AND PROFILE
TOWN OF EMMITSBURG
DEPAUL ST WATER MAIN REPLACEMENT
PHASE 1
SITUATED ALONG DEPAUL STREET
TOWN OF EMMITSBURG
FREDERICK COUNTY, MARYLAND

SCALE: AS NOTED



PROJECT NO. 23-31965
DRAWING NO. D-3609
DATE: DECEMBER 2023
DRAWN BY: JHC
CHECKED BY: JHC



- NOTES:
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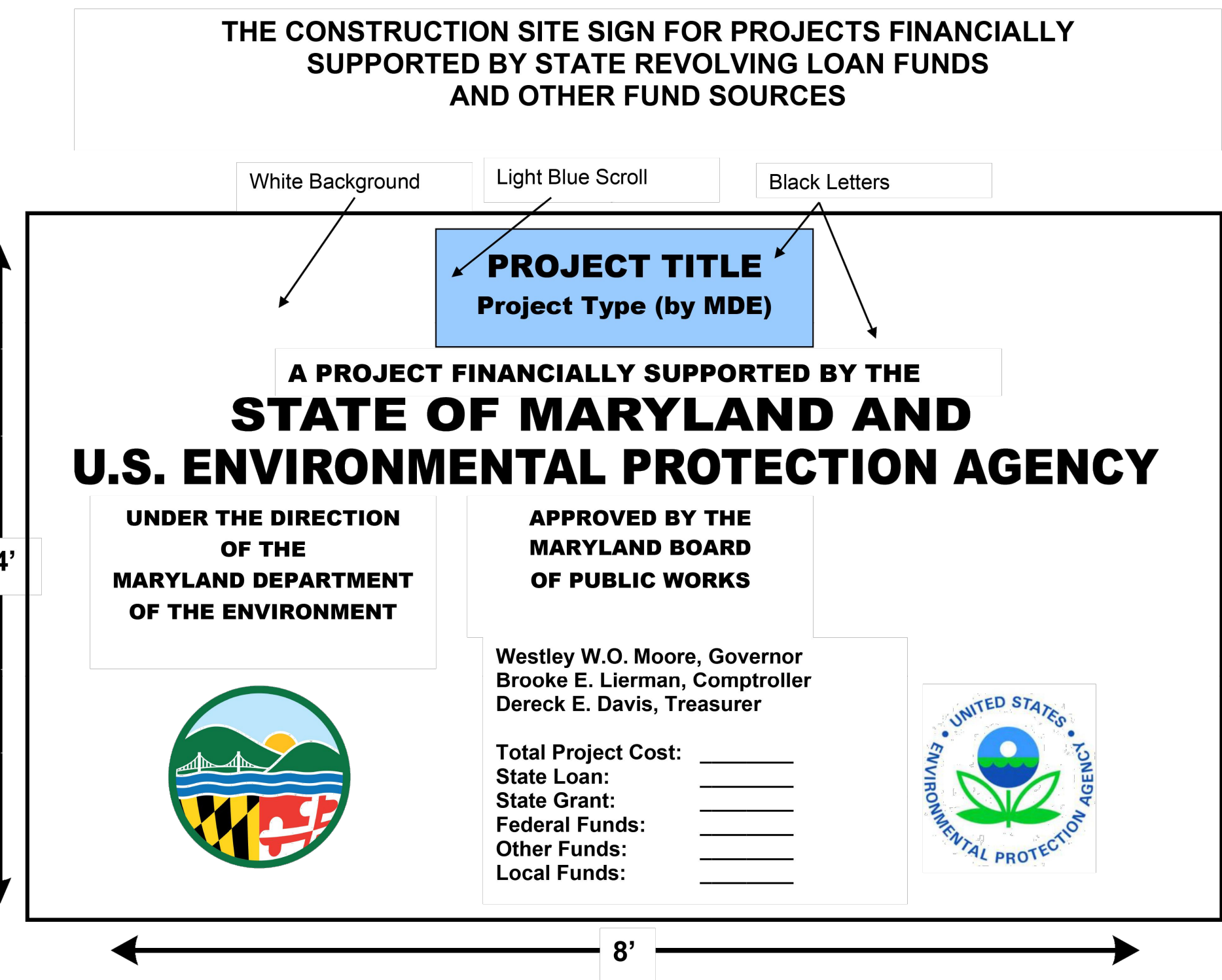
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Est. 1966

ENGINEERS-SURVEYORS-PLANNERS

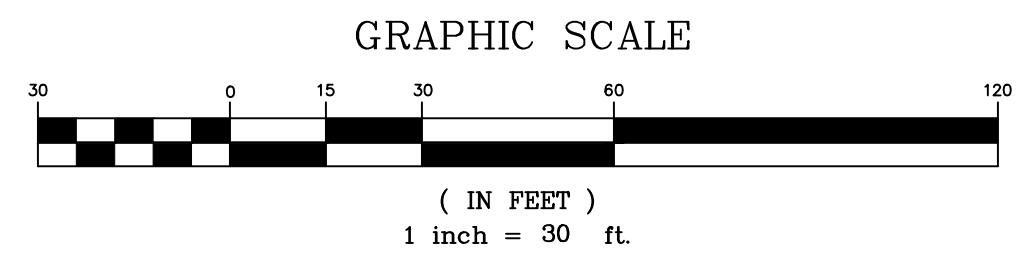
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FAX: (301)985-0680
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MATCH LINE - SEE SHEET 5 OF 12

MATCH LINE - SEE SHEET 5 OF 12

NOTE: UTILITIES ARE PROJECTED ONTO THE ROAD CENTERLINE.



OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____
TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____
DISTRICT MANAGER OR DESIGNEE

Date: _____
PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

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WATER MAIN PLAN AND PROFILE

TOWN OF EMMITSBURG
DEPAUL ST WATER MAIN REPLACEMENT
PHASE 1
SITUATED ALONG DEPAUL STREET
TOWN OF EMMITSBURG
FREDERICK COUNTY, MARYLAND

SCALE: AS NOTED

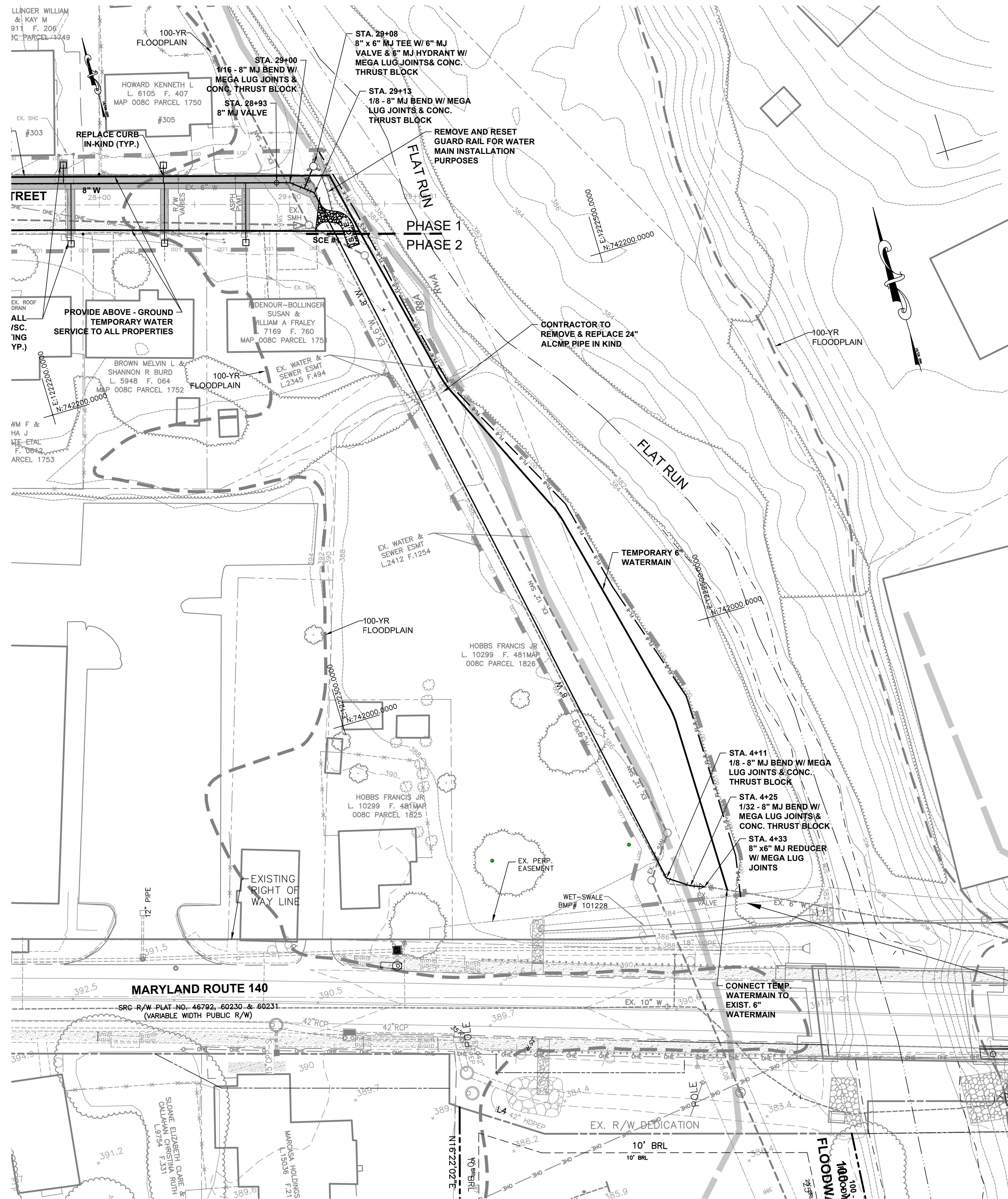
PROFESSIONAL CERTIFICATION

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.

PROJECT NO. 23-31966
DRAWING NO. D-3609
DATE: DECEMBER 2023
DRAWN BY: JHC
CHECKED BY: JHC

SHEET 6 OF 12

H:\CARLSM\PROJECTS\23\31966 Town of Emmitsburg - Depaul - STUMPRV\MD-01.dwg, 12/20/2023 9:51:29 PM, JCEC, 1:1



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BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS AND WATERS OF THE U.S.

- CONDUCT THE ACTIVITY SO AS NOT TO RESTRICT OR IMPEDE THE MOVEMENT OF WILDLIFE INDIGENOUS TO THE WETLAND OR ADJACENT WATERWAY.
- REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA.
- PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF THE NONTIDAL WETLAND OR WATERS OF THE U.S.
- IF BACKFILL IS OBTAINED FROM SOURCES OTHER THAN THE ORIGINAL EXCAVATED MATERIAL, UTILIZE CLEAN FILL, FREE FROM WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
- PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY DESIGN THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS OR WATERS OF THE U.S.
- RECTIFY ANY NONTIDAL WETLANDS OR WATERS OF THE U.S. TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
- AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS OF NONTIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN THE TEMPORARILY IMPACTED AREAS.
- ALL STABILIZATION IN THE WETLAND AND BUFFER SHALL BE OF THE FOLLOWING RECOMMENDED SPECIES: ANNUAL RYEGRASS (Lolium multiflorum), MILLET (Setaria fabiana), BARLEY (Hordeum spp.), OATS (Avena spp.), AND/OR RYE (Secale spp.). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE AS WELL AS ALLOW VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE DIVISION. KENTUCKY 31 FESCUE AND BIRDSFOOT TREFLOIL SHALL NOT BE UTILIZED IN THE WETLAND OR WETLAND BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- ADHERE TO TIME OF YEAR RESTRICTIONS AS BY THE DEPARTMENT UNDER COMAR 26.08.02.
- AT LEAST ON CULVERT IN EVERY STREAM CROSSING SHALL BE DEPRESSED AT LEAST ONE FOOT BELOW EXISTING STREAM BOTTOM UNDER THE LOW FLOW CONDITIONS. A LOW FLOW CHANNEL SHALL BE PROVIDED THROUGH ANY RIP-RAP STRUCTURES. THE CULVERT SHALL BE CONSTRUCTED AND ANY RIP RAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES.
- REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLAND.

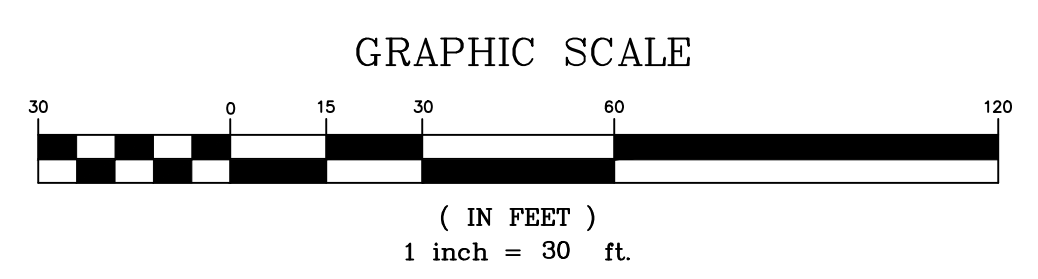
BEST MANAGEMENT PRACTICES FOR WORKING IN THE 100-YEAR FLOODPLAIN

- INSTALL SILT FENCE, IMMEDIATELY FOLLOWING CLEARING AND GRUBBING, ALONG THE PROPOSED LIMITS OF DISTURBANCE SO THAT THE DISTURBED EASEMENT WITHIN THE 100-YEAR FLOODPLAIN IS SURROUNDED BY AN ADEQUATE PERIMETER CONTROL.
- OPERATION OF EQUIPMENT, AND ALL OTHER DISTURBANCES, MUST BE LIMITED TO THE EASEMENT THAT HAS BEEN SET APART BY SILT FENCE.
- USE PREVIOUSLY EXCAVATED MATERIAL AS BACKFILL, UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. USE CLEAN BORROW MATERIAL WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL.
- REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA.
- MAKE POST CONSTRUCTION GRADES AND ELEVATIONS WITHIN THE EASEMENT THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS.
- FOLLOWING COMPLETION OF CONSTRUCTION IN THE FLOODPLAIN, THAT PORTION OF THE EASEMENT THAT WAS TEMPORARILY DISTURBED SHALL BE STABILIZED WITH SEED AND MULCH WITHIN 7 DAYS. MULCH SHALL BE ANCHORED BY APPROVED METHODS.

NOTE:
NO ACCESS WILL BE ALLOWED TO THE SITE FROM MAIN ST. (MD RT. 140)

BID SET 12/22/2023

OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727



FOX & ASSOCIATES INC.
Est. 1966
ENGINEERS-SURVEYORS-PLANNERS
981 MT. AETNA ROAD
HAGERSTOWN, MD 21740
PHONE: (301)735-8603
or (301)416-7250
FAX: (301)735-1653
www.foxassoc.com Email: fox@foxassoc.com

| | |
|----------|--|
| DRAWN BY | |
| REVISION | |
| DATE | |

WATER MAIN PLAN AND PROFILE
TOWN OF EMMITSBURG
DEPAUL ST WATER MAIN REPLACEMENT
PHASE 2
SITUATED ALONG DEPAUL STREET
TOWN OF EMMITSBURG
FREDERICK COUNTY, MARYLAND

SCALE: AS NOTED

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.

PROJECT NO. 23-31965
DRAWING NO. D-3609
DATE: DECEMBER 2023
DRAWN BY: JHC
CHECKED BY: JHC

SHEET 7 OF 12

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____

TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

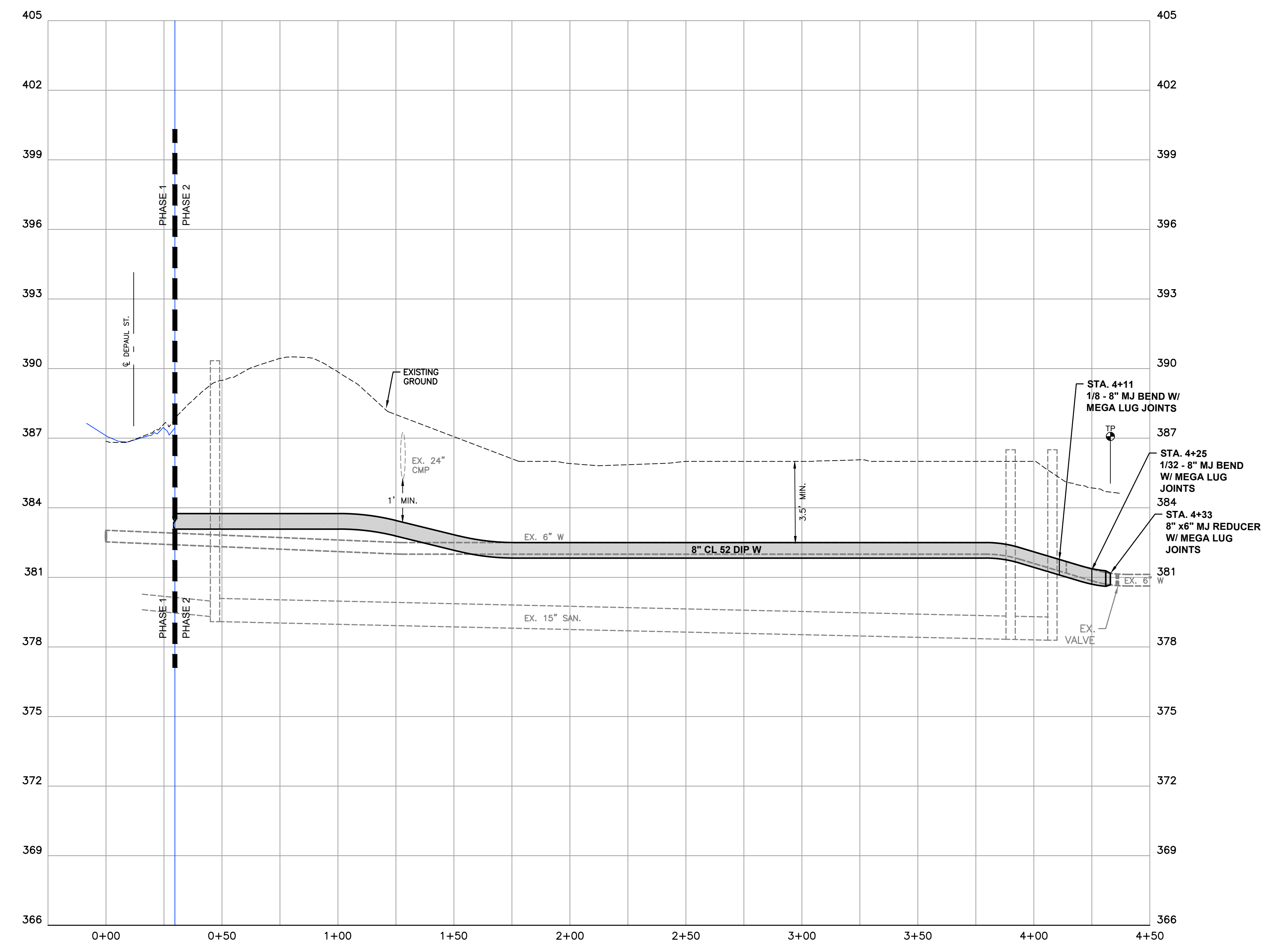
By: _____ DISTRICT MANAGER OR DESIGNEE

Date: _____ PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL.

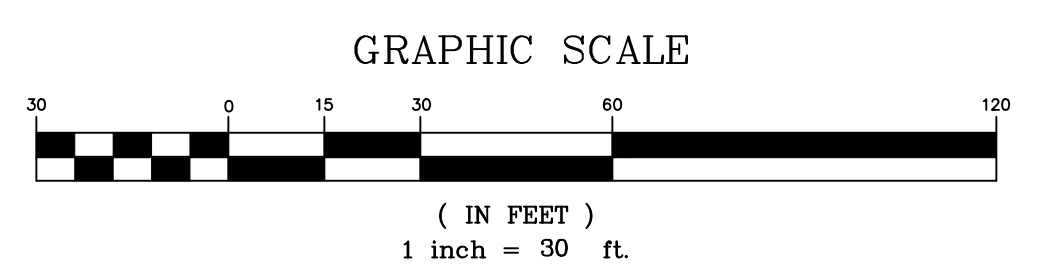
SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

- NOTES:
- CONTRACTOR MUST TEST PIT EXISTING UTILITIES TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSPECTOR OF ANY DISCREPANCIES.
 - 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.
 - ROADWAY EMBANKMENT STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASSHTO T-180 METHOD "C". UTILITY TRENCH STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY ASSHTO T-99 METHOD "A" OR AS MODIFIED BY THE GEOTECHNICAL ENGINEER.
 - ALL EXISTING WATERMAIN THAT IS BEING REPLACED BY THIS CONTRACT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
 - ALL WATERMAIN SHALL HAVE 3'-6" MINIMUM COVER BELOW EXISTING GROUND.
 - THE CONTRACTOR SHALL COORDINATE SHUT DOWN WITH TOWN OF EMMITSBURG PERSONNEL.
 - CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE INTEGRITY OF POLES & GUY WIRE ANCHORS DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH FIRST ENERGY TO DETERMINE THE NEED FOR POLE BRACING.

TEMPORARY WATER SERVICE
THE CONTRACTOR SHALL PROVIDE A TEMPORARY WATER SERVICE LINE FOR THIS PROJECT. THE TEMPORARY SERVICE LINE MUST BE PLACED IN A MANNER THAT ALLOWS INGRESS/EGRESS TO PRIVATE PROPERTY AND PUBLIC STREET ALLEYS. THE CONTRACTOR SHALL PREPARE A DETAILED TEMPORARY SERVICE PLAN AND SUBMIT IT FOR TOWN APPROVAL PRIOR TO STARTING CONSTRUCTION. THE SEQUENCE OF CONSTRUCTION SHALL BE DETERMINED BY THE ENGINEER.



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



OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727

WATER MAIN PLAN AND PROFILE
TOWN OF EMMITSBURG
DEPAUL ST WATER MAIN REPLACEMENT
PHASE 2
SITUATED ALONG DEPAUL STREET
TOWN OF EMMITSBURG
FREDERICK COUNTY, MARYLAND

SCALE: AS NOTED



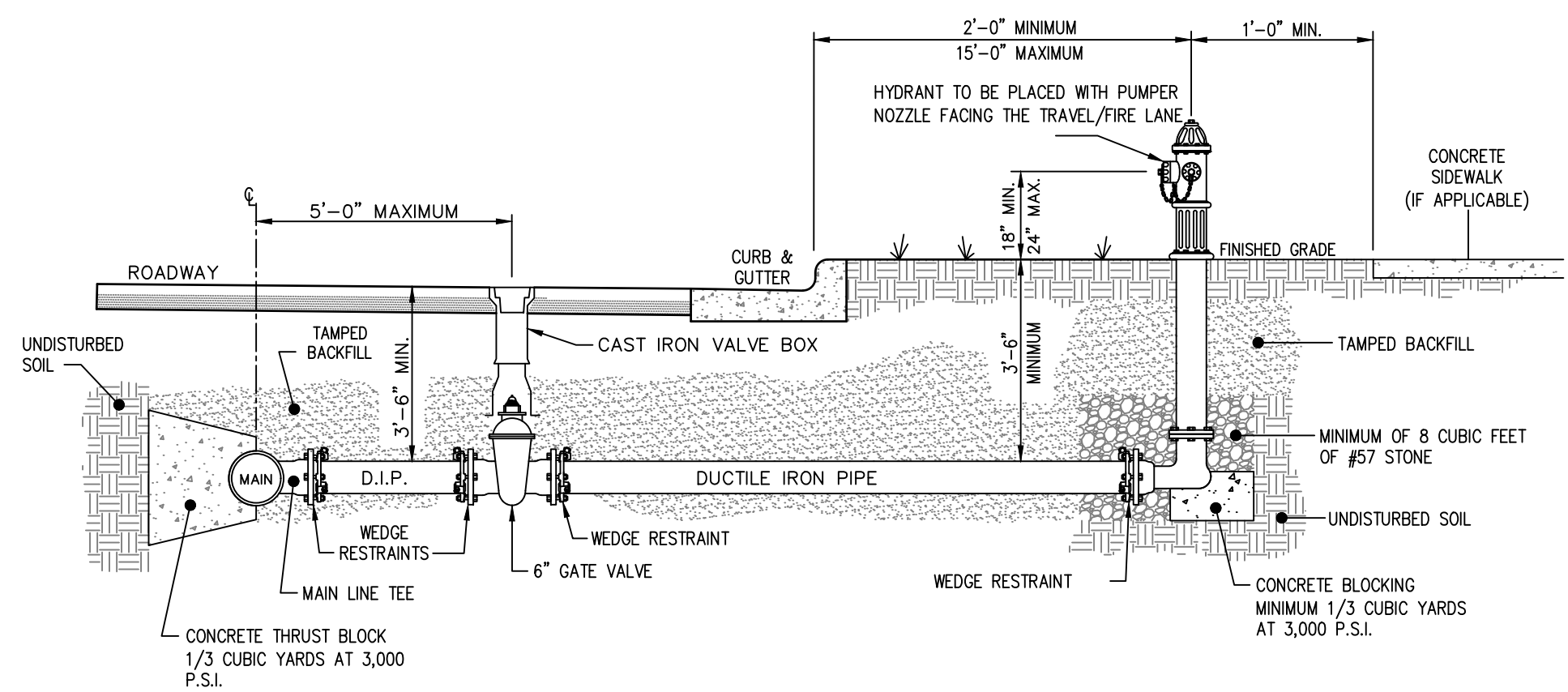
BID SET 12/22/2023

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____
TOWN PLANNING DEPARTMENT _____ DATE _____

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. 92709 EXP. DATE 7/23/24
PROJECT NO. 23-31965
DRAWING NO. D-3609
DATE: DECEMBER 2023
DRAWN BY: JHC
CHECKED BY: JHC

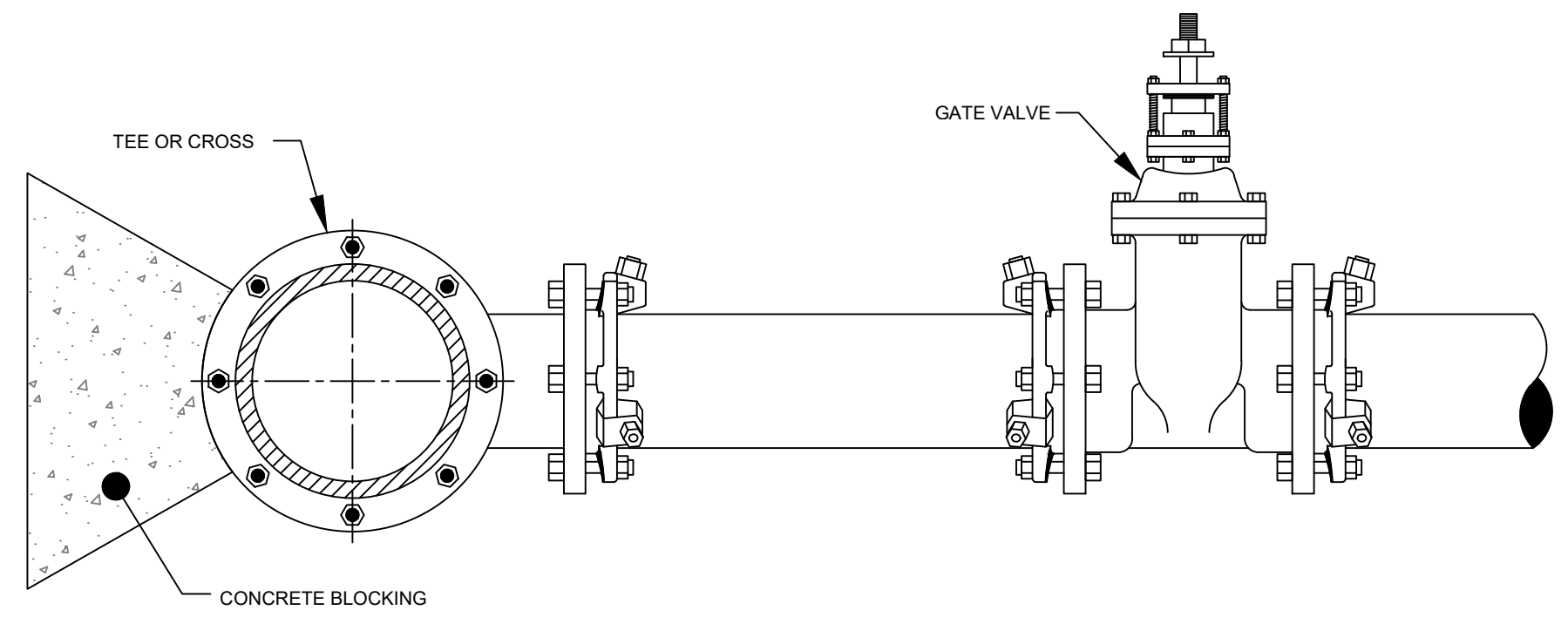
H:\CARLSM\PROJECTS\23\31965\TOWN OF EMMITSBURG DEPAUL ST WATER MAIN REPLACEMENT PHASE 2\DWG\12/20/2023 9:54:50 PM - JHC.dwg



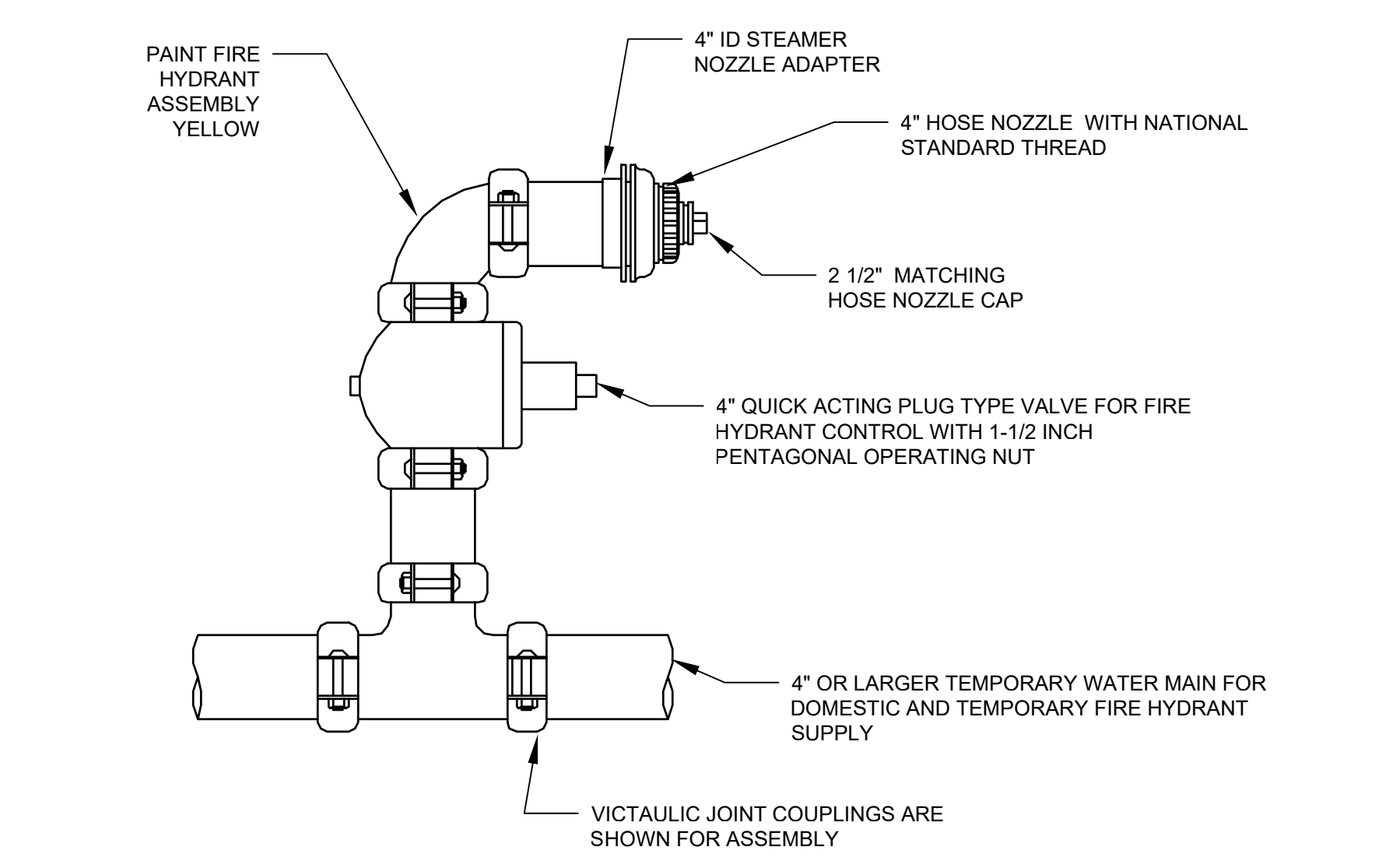
- NOTES:
1. ALL VALVES AND FITTINGS SHALL HAVE M.J. CONNECTIONS WITH MEGA LUG OR EQUAL JOINT RESTRAINTS.
 2. DO NOT PLACE VALVE IN CURB AND GUTTER.
 3. FIRE HYDRANTS SHALL BE M&B MODEL 929 WITH ONE 5 INCH DIAMETER STORZ CONNECTION AND TWO 2 1/2 INCH HOSE NOZZLES. NOZZLE GASKETS, 5-1/4 MAIN INCH VALVE, 1-1/2 INCH PENTAGONAL OPERATING NUT, OPEN LEFT.
 4. HOSE NOZZLES SHALL HAVE NATIONAL STANDARD THREAD.
 5. HYDRANTS SHALL BE DESIGNED FOR 4 -1/2 FOOT BURY AND SIX (6) INCH MECHANICAL JOINT INLET.

STANDARD HYDRANT INSTALLATION
NOT TO SCALE

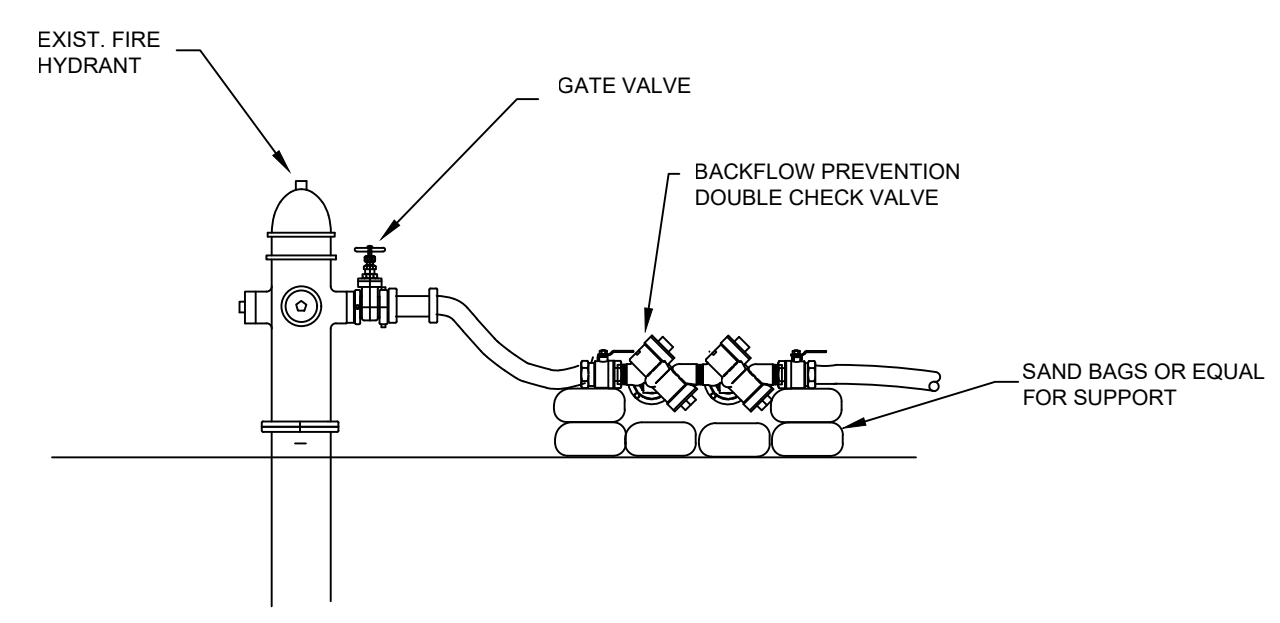
| | REQUIRED LENGTH OF RESTRAINED JOINT PIPE (FT) | |
|---------------------------------|---|----|
| | 6" | 8" |
| 90° BEND | 60 | 80 |
| 45° BEND | 25 | 32 |
| 22.5° BEND | 12 | 16 |
| 11.25° BEND | 6 | 8 |
| PLUG, BRANCH OF TEE OR DEAD END | 42 | 55 |
| TEE | 38 | 51 |



VALVE RESTRAINT WITH WEDGE ACTION RETAINER GLANDS AT A TEE OR CROSS
NOT TO SCALE

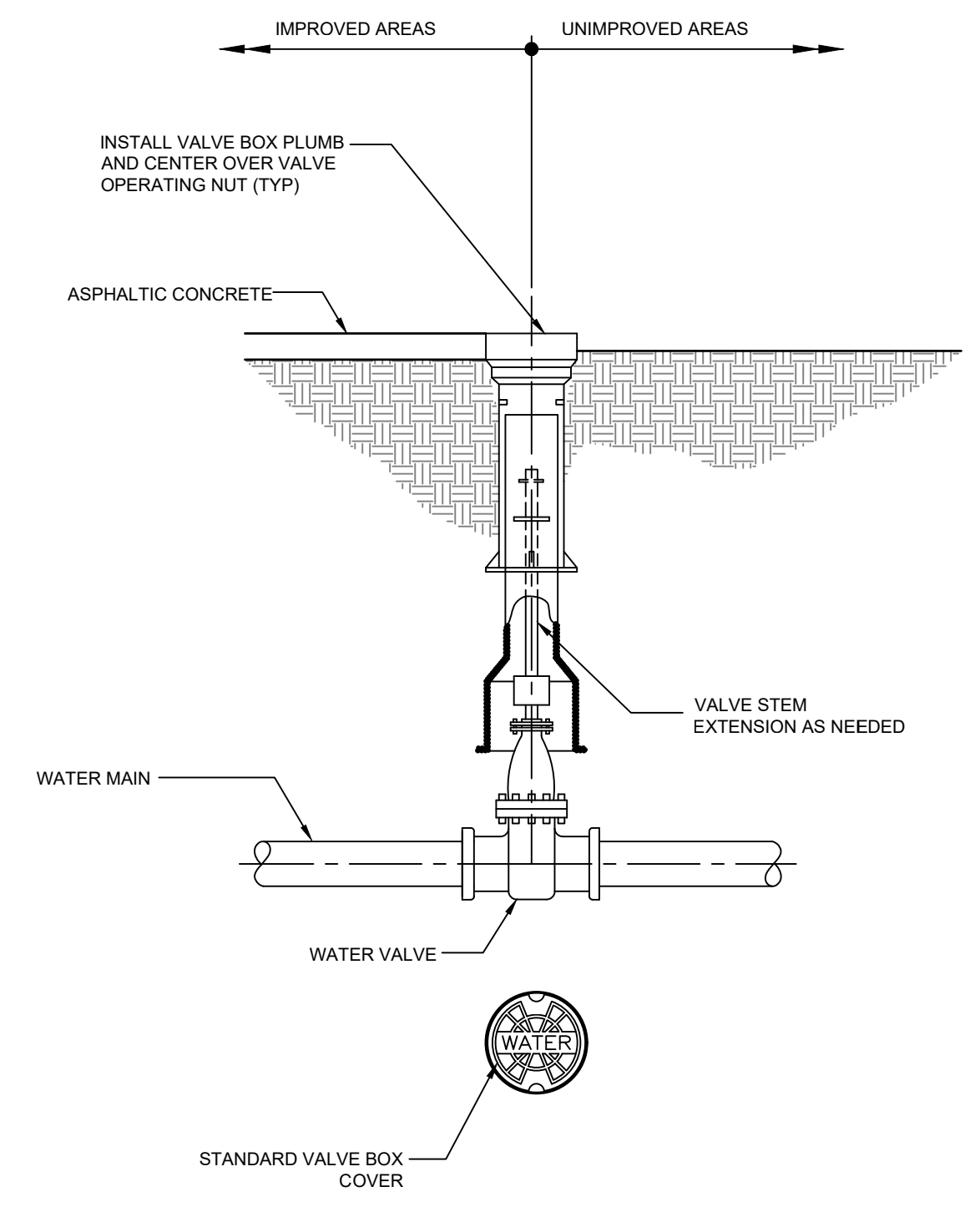


TEMPORARY FIRE HYDRANT
N.T.S.

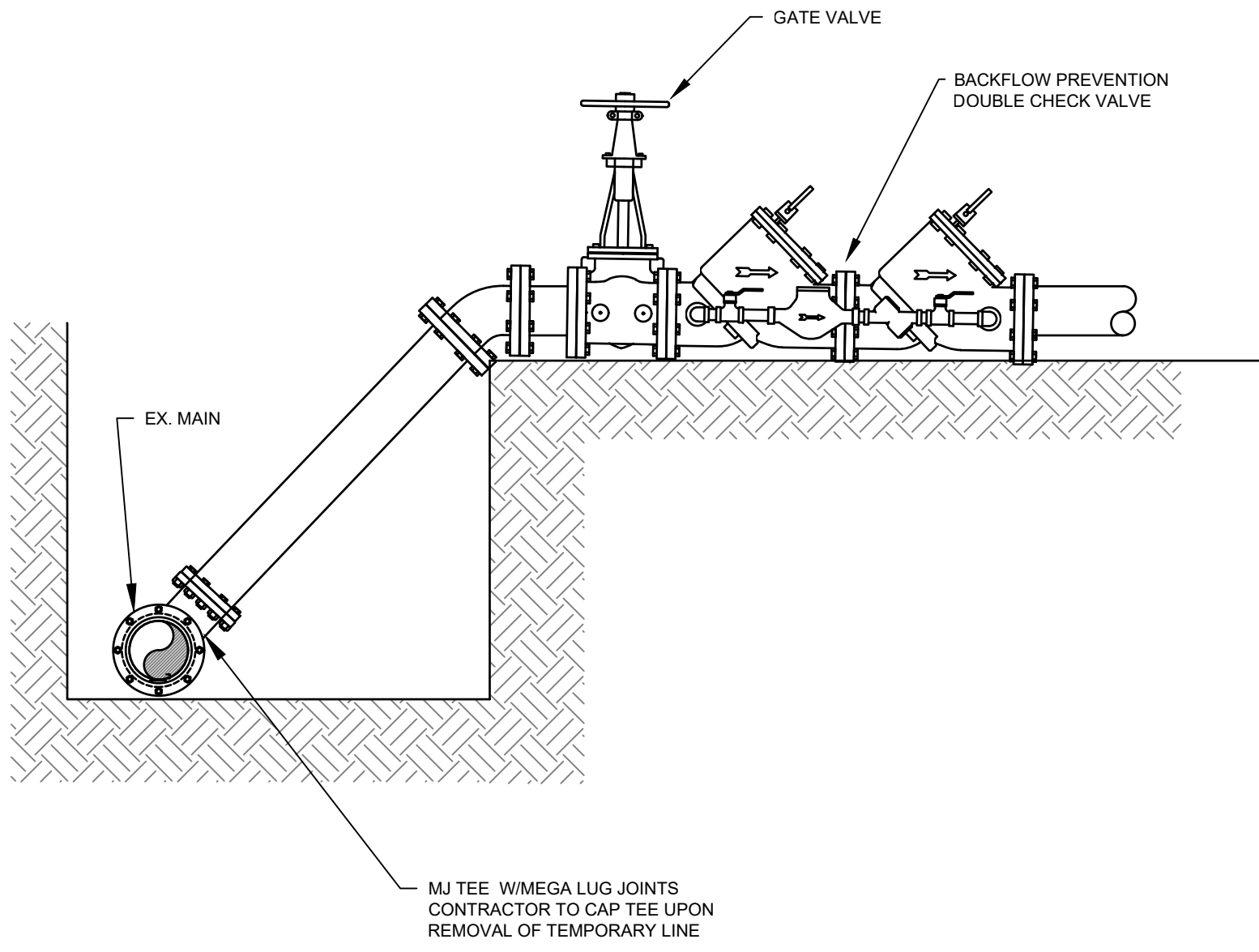


- NOTES:
1. VALVES AND BACKFLOW DEVICE SHALL BE FULLY SUPPORTED.
 2. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FIRE HYDRANTS DURING USE.
 3. VALVES AND BACKFLOW DEVICES ARE REQUIRED AT EACH HYDRANT CONNECTION.
 4. THE TEMPORARY CONNECTION SHALL BE MAINTAINED UNTIL AFTER THE FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE TOWN AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED.
 5. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651. THE USE OF TABLETS IS STRICTLY PROHIBITED.
 6. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION, AND PROVIDE DOCUMENTATION THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE HAS BEEN TESTED IN THE LAST 12 MONTHS, AND IS IN GOOD WORKING ORDER ONE YEAR FROM INSTALLATION BY A QUALIFIED BACKFLOW TECHNICIAN.

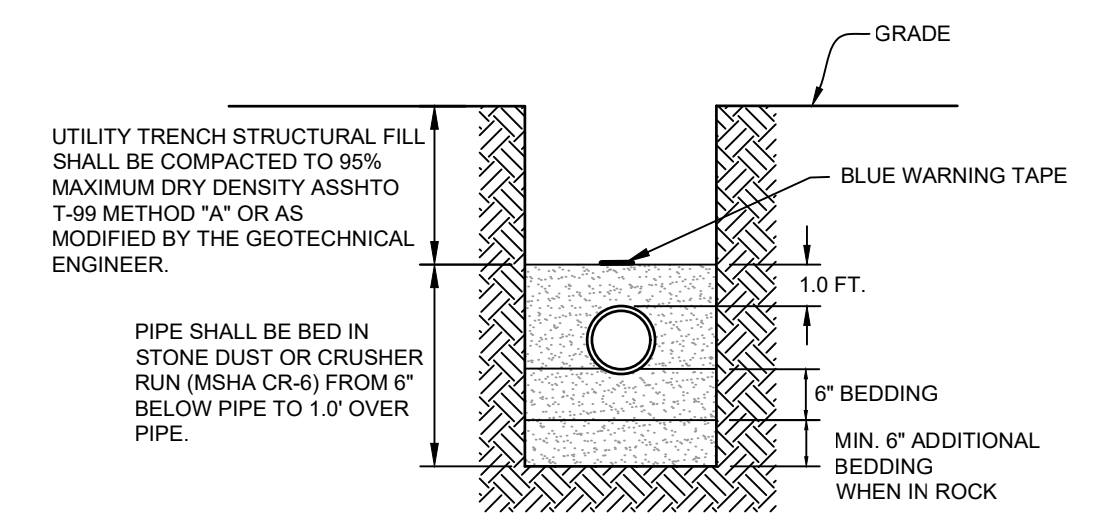
TEMPORARY WATERLINE CONNECTION DETAIL
N.T.S.



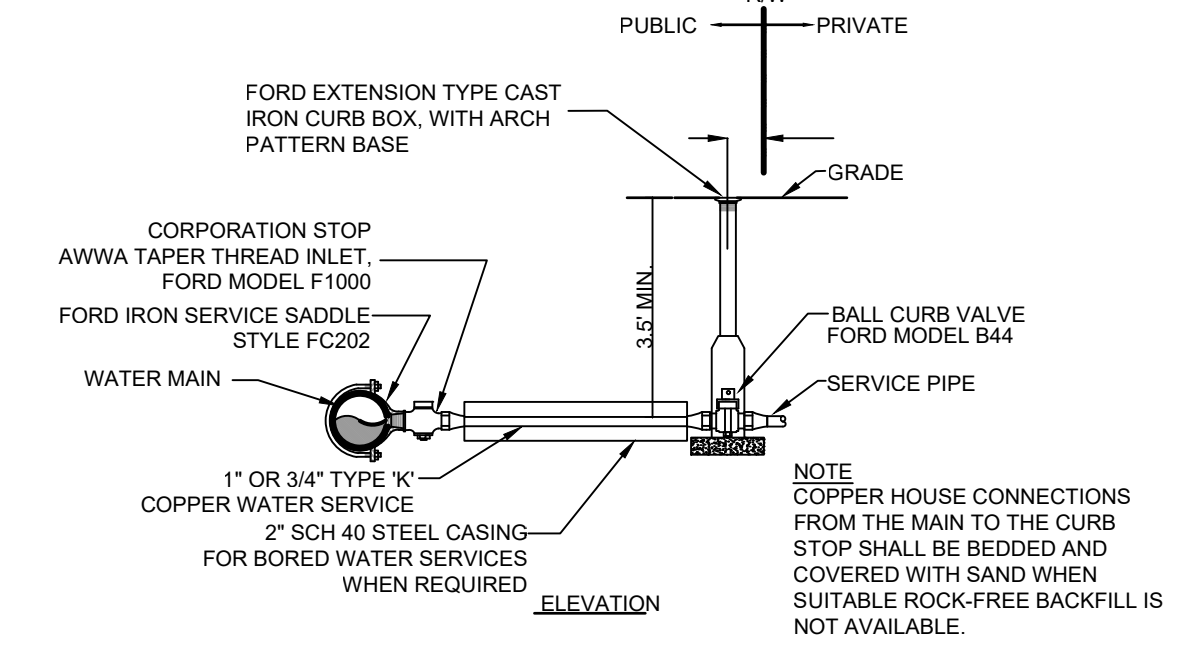
VALVE BOX INSTALLATION
N.T.S.



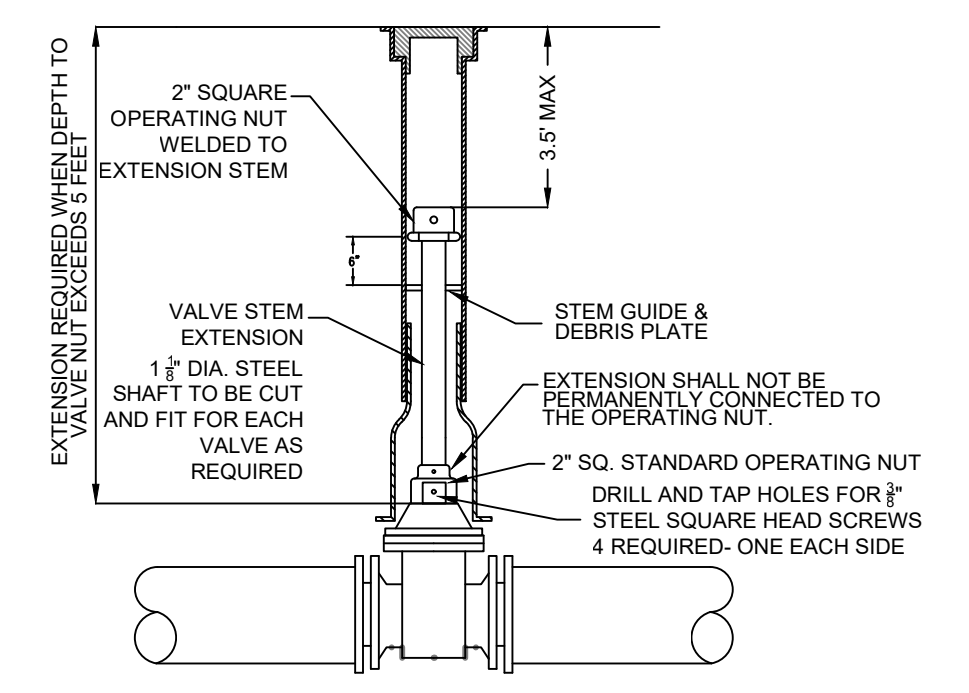
TEMPORARY WATERLINE CONNECTION TO MAIN DETAIL
N.T.S.



DUCTILE IRON WATER PIPE TRENCH DETAIL
N.T.S.



WATER MAIN CONNECTION DETAIL
N.T.S.



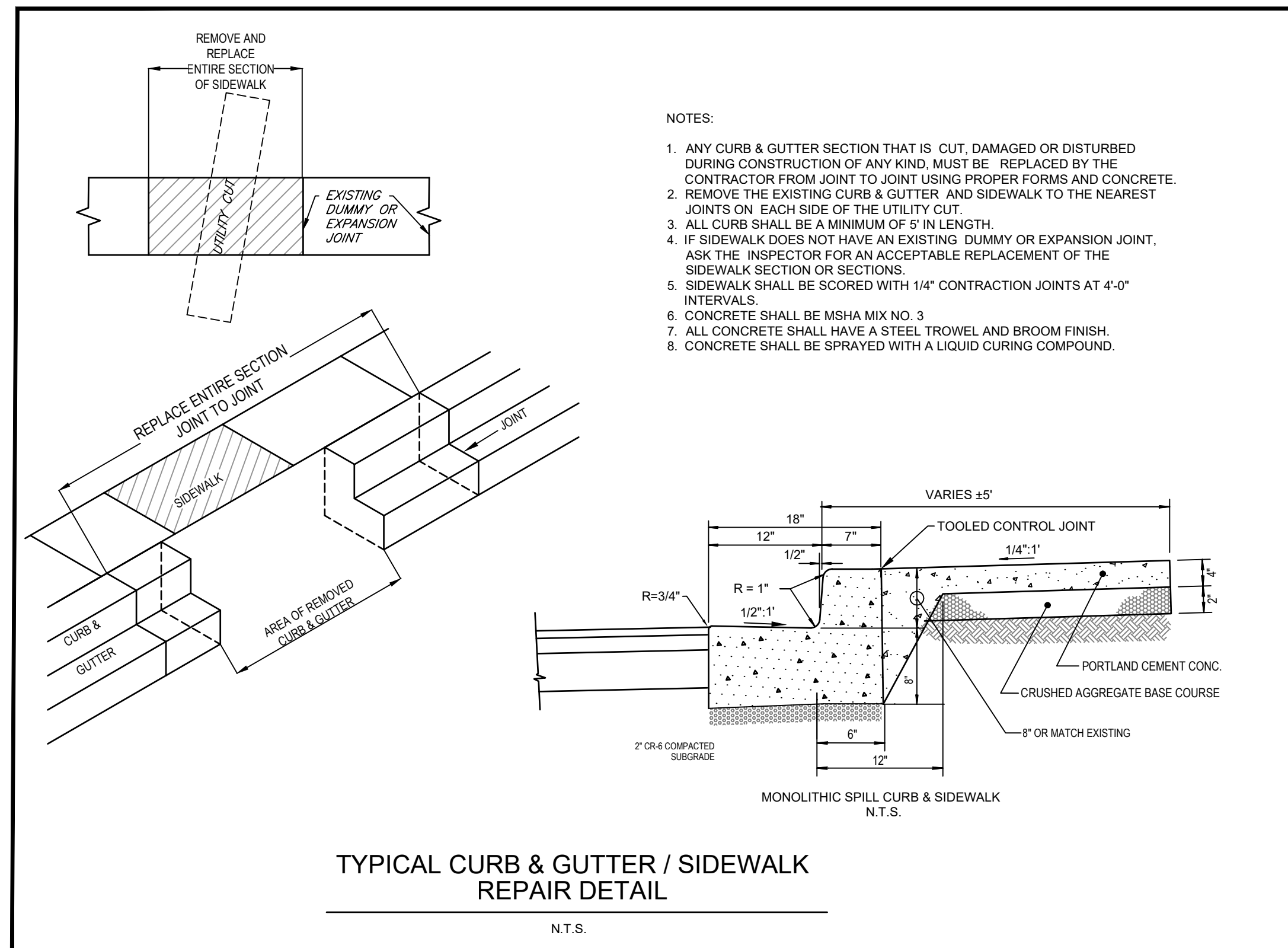
VALVE STEM EXTENSION DETAIL
N.T.S.

- NOTES:
1. VALVES AND BACKFLOW DEVICE SHALL BE FULLY SUPPORTED.
 2. VALVES AND BACKFLOW DEVICES ARE REQUIRED AT EACH CONNECTION.
 3. THE TEMPORARY CONNECTION SHALL BE MAINTAINED UNTIL AFTER THE FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE TOWN AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED.
 4. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651. THE USE OF TABLETS IS STRICTLY PROHIBITED.
 5. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION, AND PROVIDE DOCUMENTATION THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE HAS BEEN TESTED IN THE LAST 12 MONTHS, AND IS IN GOOD WORKING ORDER ONE YEAR FROM INSTALLATION BY A QUALIFIED BACKFLOW TECHNICIAN.
 6. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND BACKFILL NECESSARY TO INSTALL AND REMOVE THE TEMPORARY CONNECTION.

BID SET 12/22/2023

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____
TOWN PLANNING DEPARTMENT _____ DATE _____

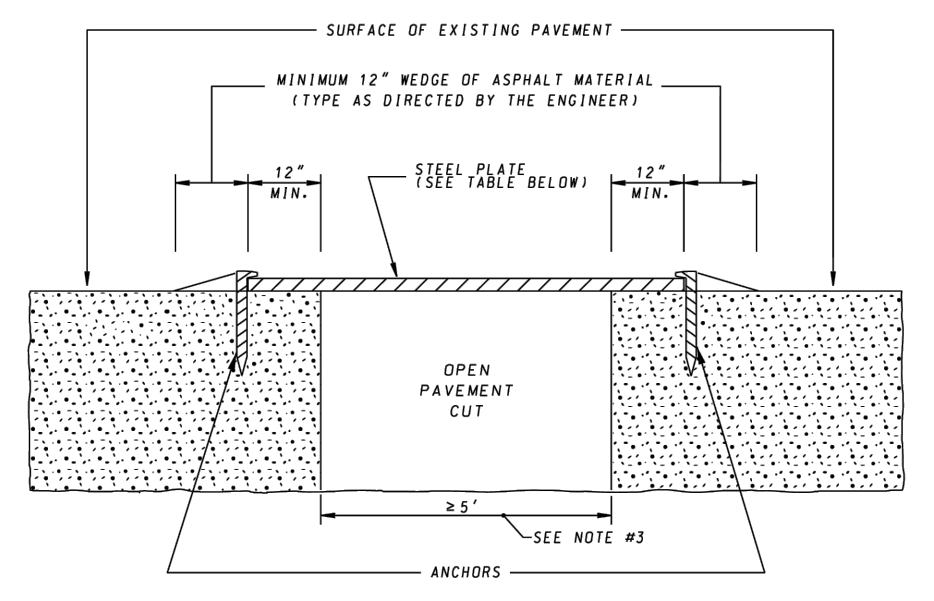


TYPICAL CURB & GUTTER / SIDEWALK REPAIR DETAIL

N.T.S.

STANDARD DETAIL:

METHOD "2" SHALL BE USED FOR CEMENT CONCRETE PAVEMENT SECTIONS, REGARDLESS OF SPEED. METHOD "2", FOR SPEEDS EQUAL TO OR LESS THAN 40 MPH (SEE DETAIL BELOW). APPROACH PLATE AND ENDING PLATE OF LONGITUDINAL PLACEMENT SHALL BE ATTACHED TO THE ROADWAY BY A MINIMUM OF 1" ANCHOR OR FISH COMB ON EACH SIDE. STEEL PLATES SHALL BE 1/4" THICK AND 2" WIDE. EACH OTHER AND WELDED. ASPHALT MATERIAL SHALL BE COMPACTED TO FORM RAMPS. MAXIMUM SLOPE SHALL BE 1/4" PER 12" WITH A MINIMUM 12" HORIZONTAL LENGTH. THE METHOD OF ANCHORING SHALL BE APPROVED BY THE ENGINEER.



STEEL PLATE DETAIL (METHOD 2, EQUAL TO OR LESS THAN 40 MPH) NOT TO SCALE

THE FOLLOWING TABLE SHOWS THE ADVISORY MINIMUM THICKNESS OF STEEL PLATE BRIDGING REQUIRED FOR A GIVEN TRENCH (WITH A-36 GRADE STEEL):

| TRENCH WIDTH | MINIMUM PLATE THICKNESS |
|--------------|-------------------------|
| < 5' | SEE NOTE #3 |
| ≥ 5' | SEE NOTE #3 |

- NOTES**
- STEEL PLATE USAGE WILL BE INCIDENTAL TO THE WORK BEING DONE/PROTECTED UNLESS AN ITEM FOR STEEL PLATES IS INCLUDED IN THE CONTRACT SCHEDULE OF PRICES.
 - STEEL PLATE INSTALLED SHALL HAVE A MAXIMUM ONE INCH DEFLECTION. STEEL PLATES SHALL BE WELDED TOGETHER BY A LICENSED WELDER.
 - FOR TRENCH WIDTHS EQUAL TO OR GREATER THAN 5 FT. STEEL PLATE AND SUPPORT SYSTEM SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND AND APPROVED BY THE SHA ENGINEER.
 - STEEL PLATE BRIDGING IS NOT ALLOWED ON EXPRESSWAYS/FREEWAYS.
 - ANCHORS ARE TO BE A MIN. OF 6" IN LENGTH.

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

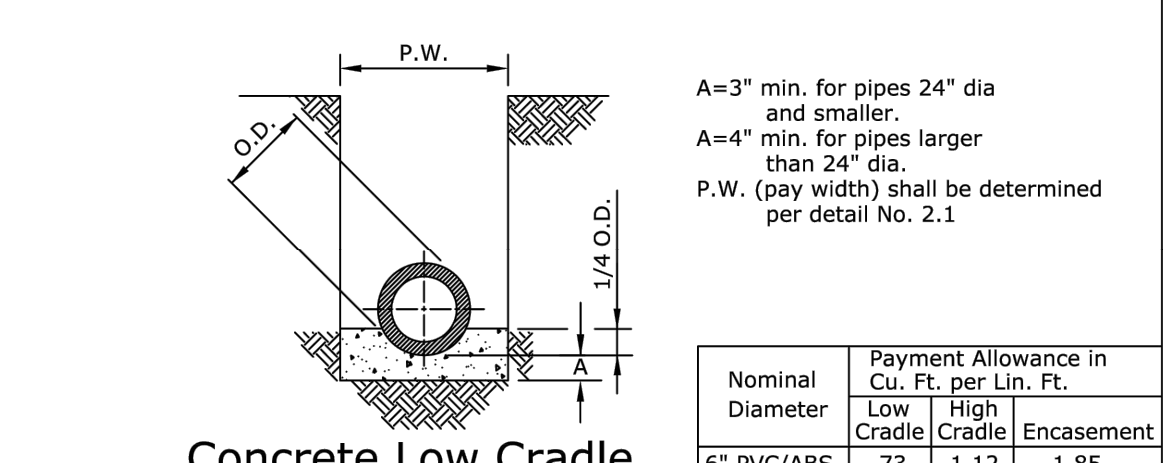
STEEL PLATE
METHOD 2, EQUAL TO OR LESS THAN 40 MPH
STANDARD NO. MD 104.01-86

APPROVED: [Signature]
DIRECTOR - OFFICE OF STATE HIGHWAY DEVELOPMENT

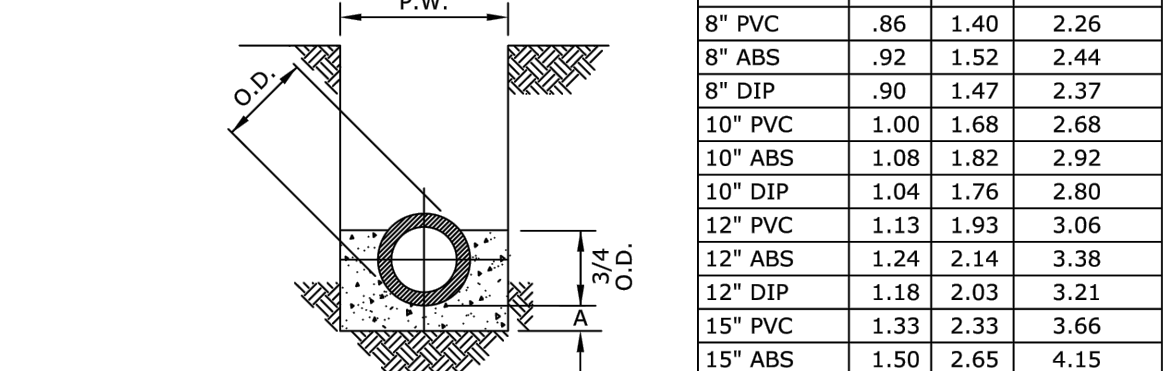
APPROVALS:
APPROVAL - SHA REVISIONS: 4-12-18
APPROVAL - FEDERAL HIGHWAY ADMINISTRATION: 2-21-18
APPROVAL - STATE HIGHWAY ADMINISTRATION: 3-19-18
REVISION: 4-6-18
REVISION: 10-20-18
REVISION: 10-13-18

WHEN IT IS NECESSARY TO USE STEEL PLATES AT ANY POINT DURING CONSTRUCTION, THE FOLLOWING REQUIREMENTS SHALL BE MET:

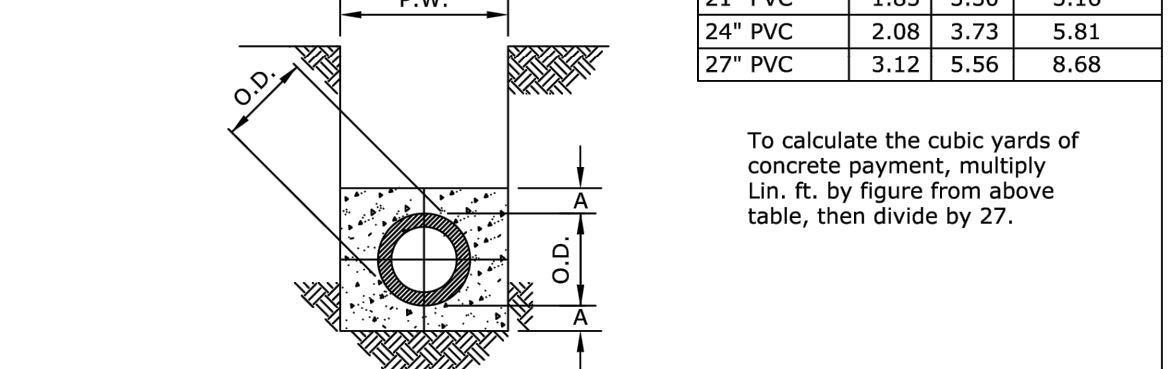
- STEEL PLATES ARE TO BE NO LESS THAN ONE INCH THICK.
- STEEL PLATES ARE TO COVER ACCESS PIT (S) WITH A ONE-FOOT OVERLAP ONTO EXISTING PAVEMENT ON ALL FOUR SIDES OF ACCESS PIT (S).
- WHEN ONLY THREE SIDES OVERLAP EXISTING ROADWAY, THE FOURTH SIDE SHALL BE SUPPORTED BY A 12" X 12" I BEAM OR TIMBER.
- IN CASES WHERE PLATES ARE USED TO COVER EXTREMELY LARGE EXCAVATIONS, IT WILL BE NECESSARY TO INSTALL AN IMMEDIATE SUPPORT SYSTEM TO PREVENT DEFLECTION.
- STEEL PLATES MUST BE PINNED TO PREVENT MOVEMENT.
- PLATES MUST BE RAMPED WITH COLD PATCH OR HOT MIX ASPHALT AT END OF EACH WORK SHIFT NECESSARY TO RECESS ANY STEEL PLATES THAT ARE PLATED IN THE ROADWAY DURING THE WINTER MONTHS.



Concrete Low Cradle



Concrete High Cradle



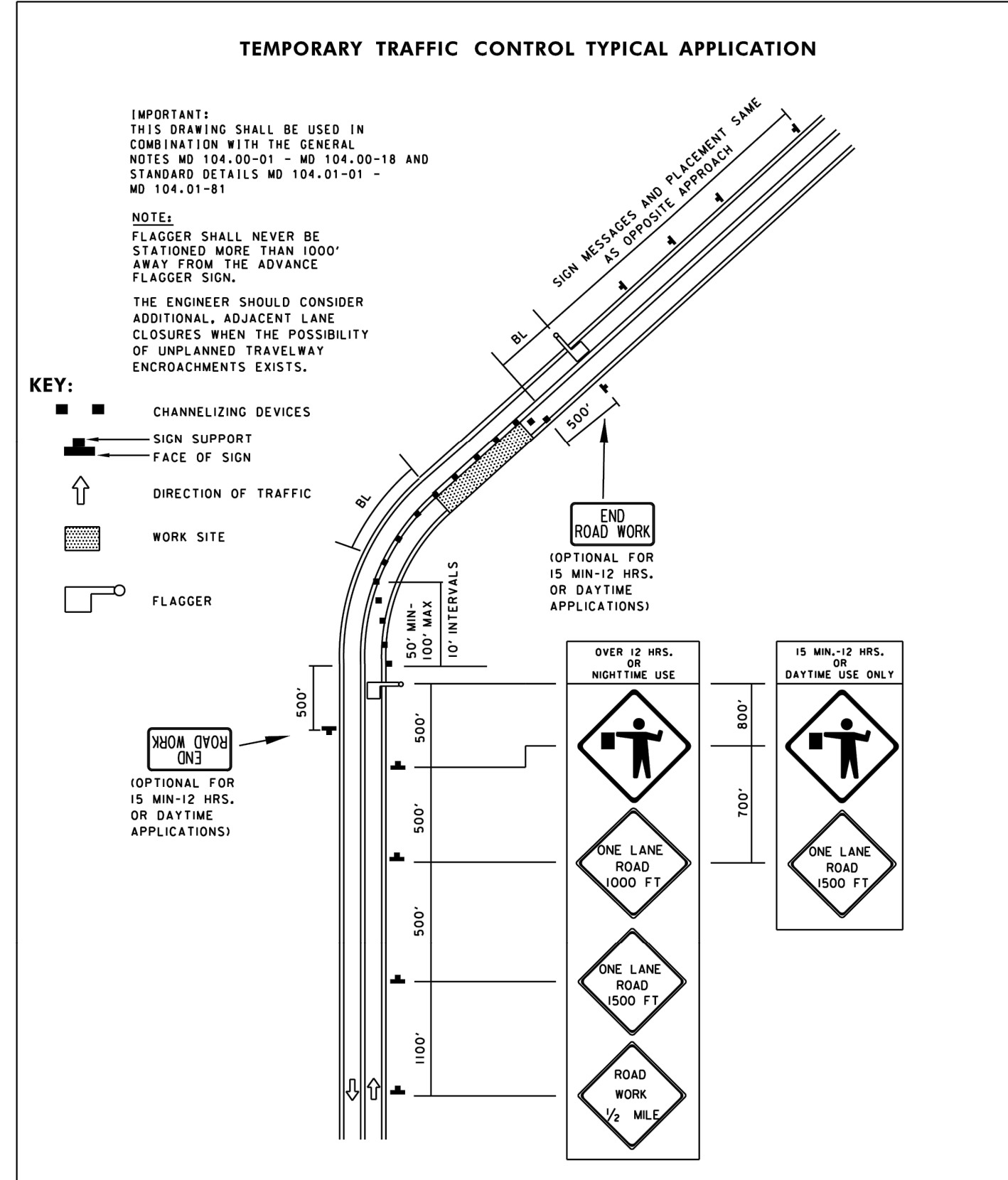
Concrete Encasement

All concrete shall be Md. S.H.A. mix No. 1. Pour concrete against undisturbed earth. Remove sheeting before pouring concrete or pull sheeting up above the poured concrete. Anchor all pipe prior to pouring concrete to insure that the pipe doesn't float.

| Nominal Diameter | Payment Allowance in Cu. Yd. per Lin. Ft. | |
|------------------|---|------------------------|
| | Low Cradle | High Cradle Encasement |
| 6" PVC/ABS | .75 | 1.12 |
| 6" DIP | .75 | 1.21 |
| 8" PVC | .86 | 1.40 |
| 8" ABS | .92 | 1.52 |
| 8" DIP | .90 | 1.47 |
| 10" PVC | 1.00 | 1.68 |
| 10" ABS | 1.08 | 1.82 |
| 10" DIP | 1.04 | 1.76 |
| 12" PVC | 1.13 | 1.93 |
| 12" ABS | 1.24 | 2.14 |
| 12" DIP | 1.18 | 2.03 |
| 15" PVC | 1.33 | 2.33 |
| 15" ABS | 1.50 | 2.65 |
| 16" DIP | 1.55 | 2.62 |
| 18" PVC | 1.59 | 2.81 |
| 21" PVC | 1.85 | 3.30 |
| 24" PVC | 2.08 | 3.73 |
| 27" PVC | 3.12 | 5.56 |

To calculate the cubic yards of concrete payment, multiply Lin. ft. by figure from above table, then divide by 27.

| Revisions | Detail No. |
|-------------------------|------------|
| Date: _____ Note: _____ | 213.1 |
| Date: 01-24-2013 | |



- 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 MD10, 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 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).

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.

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 DATES | SEEDING DEPTHS | FERTILIZER RATE (10-10-10) | LIME RATE |
|-----|----------|--|--|--|---------------------------|----------------|----------------------------------|---------------------------------|
| | | APPLICATION RATE (LB/AC) | | | | | | |
| 1 | * BARLEY | 96 (2.2 LBS/1000 S.F.) | | | 3/15 - 5/31 8/1 - 9/30 | 1" | 436 LBS/AC (10 LBS/1000 S.F.) | 2 TONS/AC (90 LBS/1000 S.F.) |

* OR LIKE SPECIES WITH APPROVAL FROM FREDERICK & CATOCTIN 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.

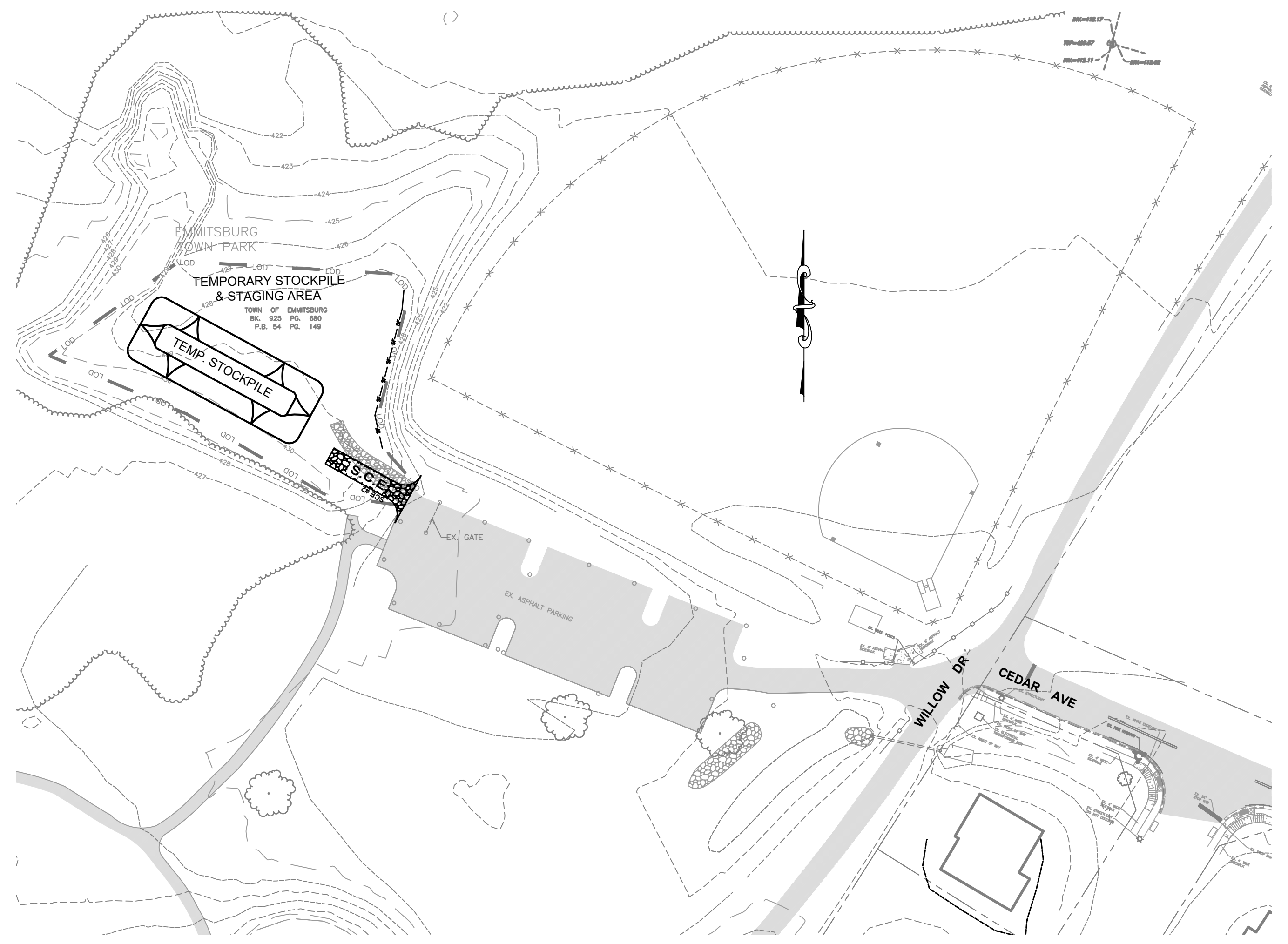
PERMANENT STABILIZATION WITH SOD

- 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 DATES | SEEDING DEPTHS | FERTILIZER RATE (10-20-20) | | | LIME RATE |
|-----|---|--|--|--|---------------------------|----------------|--------------------------------|------------------------------|------------------------------|--------------------------------|
| | | APPLICATION RATE (LB/AC) | | | | | N | P205 | K20 | |
| 9 | TALL FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS | 60 40 20 | | | 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 (90 LB/1000 S.F.) |



OFF-SITE STOCKPILE & STAGING AREA
1"=30'

STOCKPILE NOTES

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

APPROVED BY:
TOWN OF EMMITSBURG

TOWN MAYOR _____ DATE _____

TOWN PLANNING DEPARTMENT _____ DATE _____

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____
DISTRICT MANAGER OR DESIGNEE

Date: _____
PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

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.C.
JOSEPH H. CEDI REG. NO. 30709 DATE 12/20/23

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 _____

SEDIMENT CONTROL / STORMWATER MANAGEMENT REQUIRED INSPECTIONS

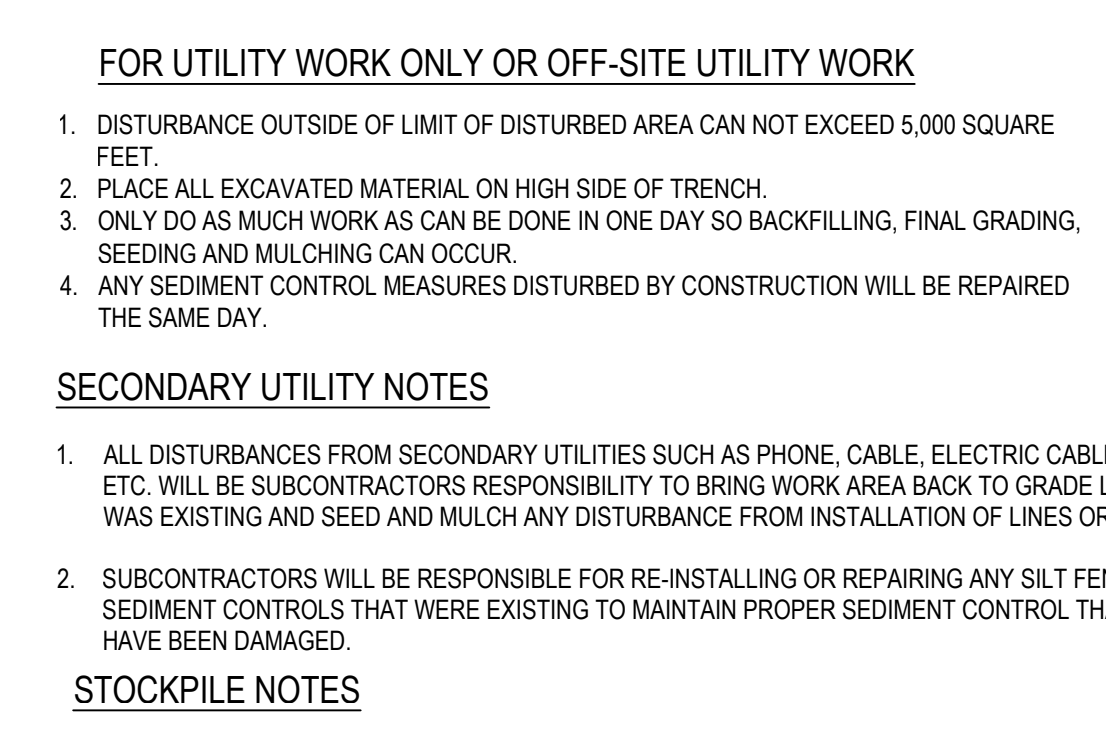
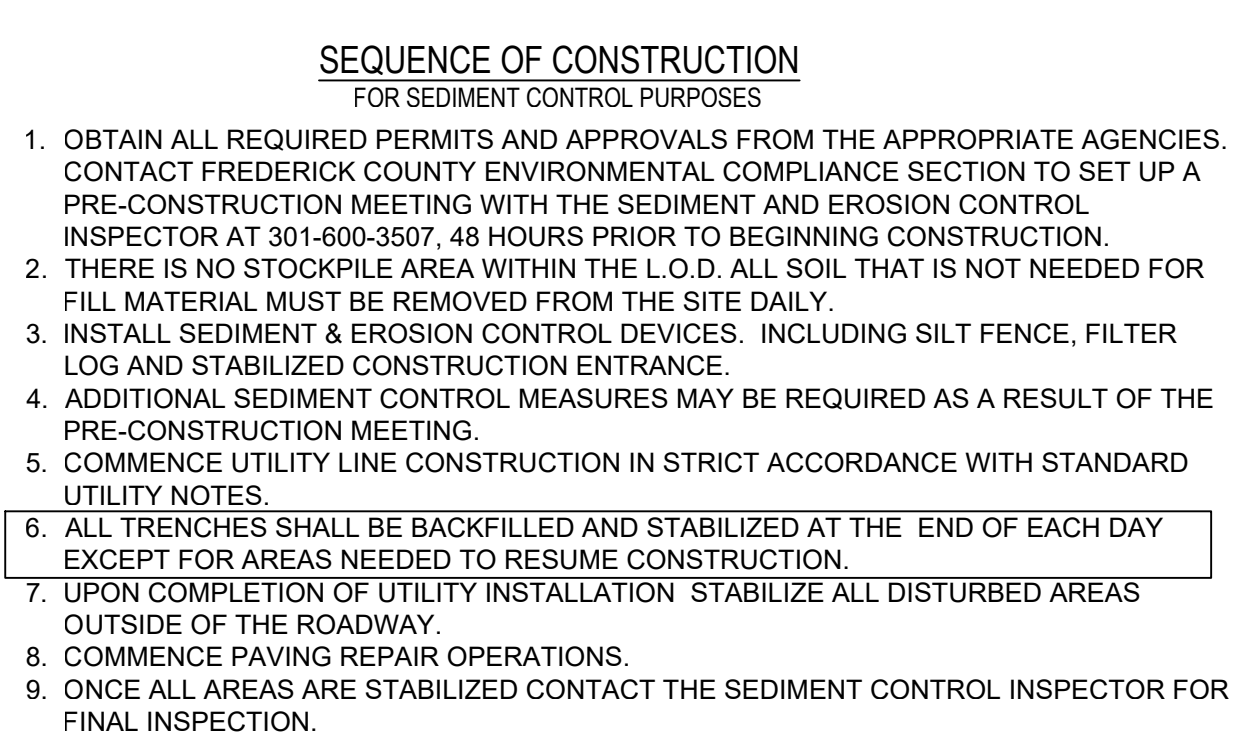
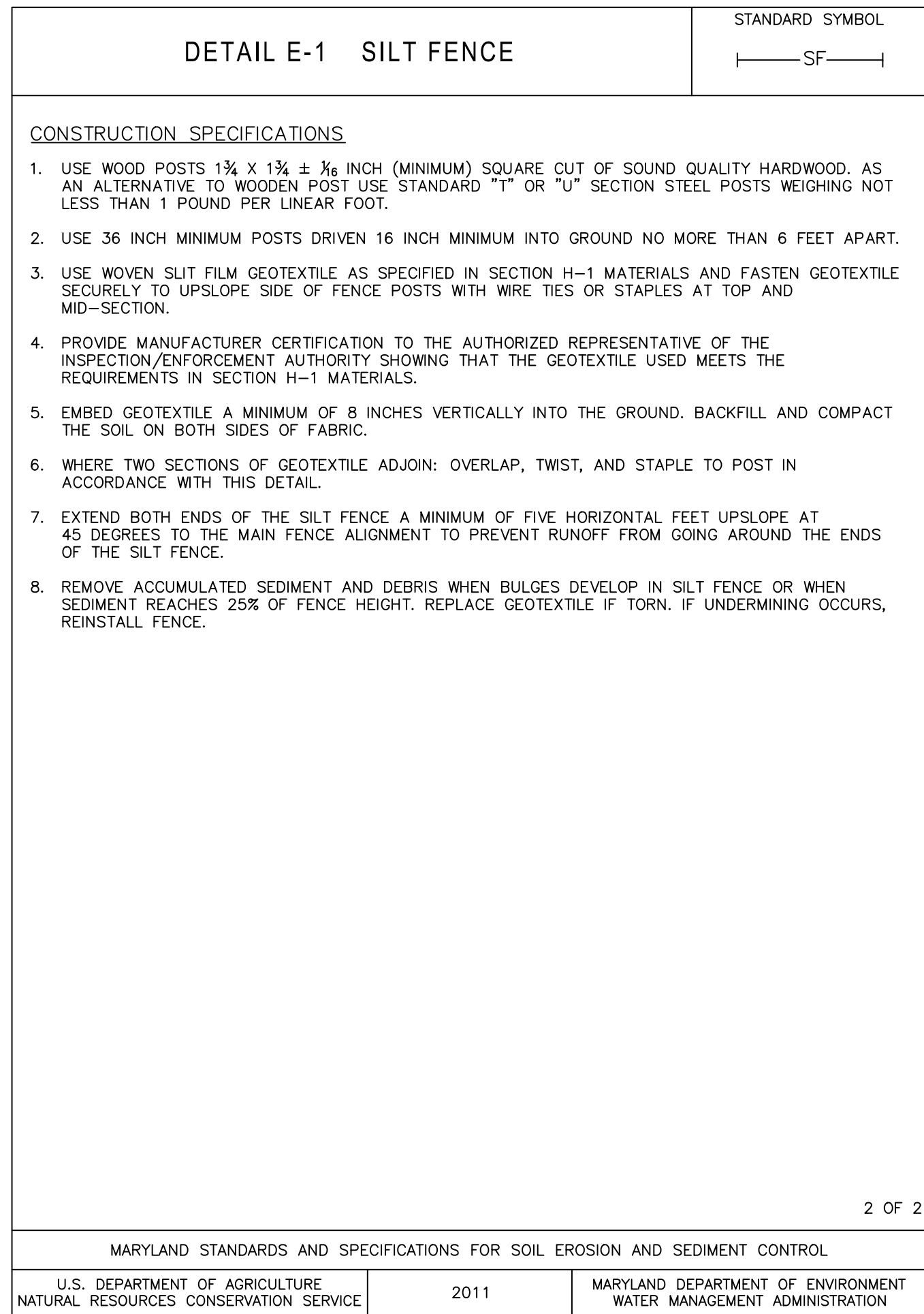
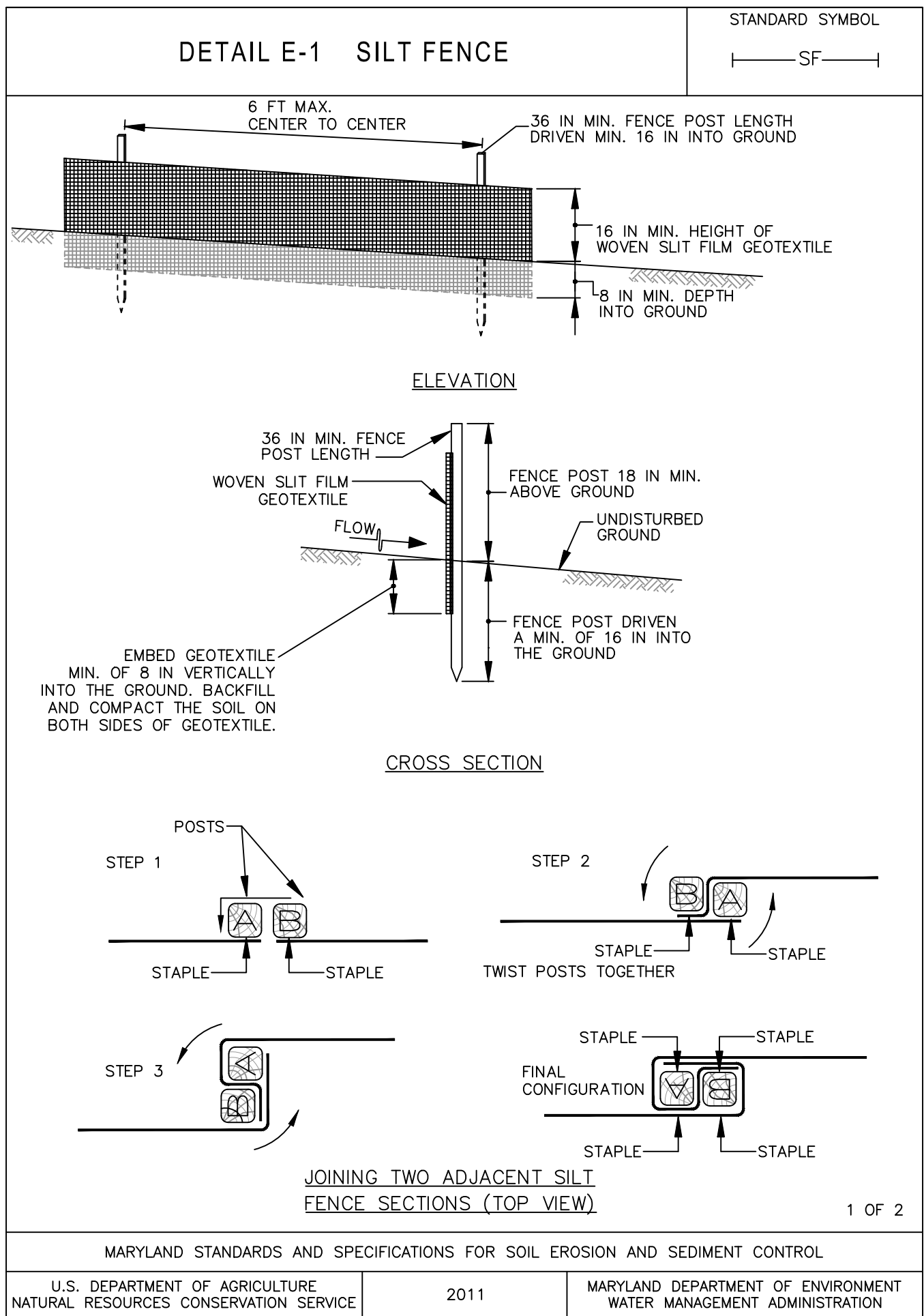
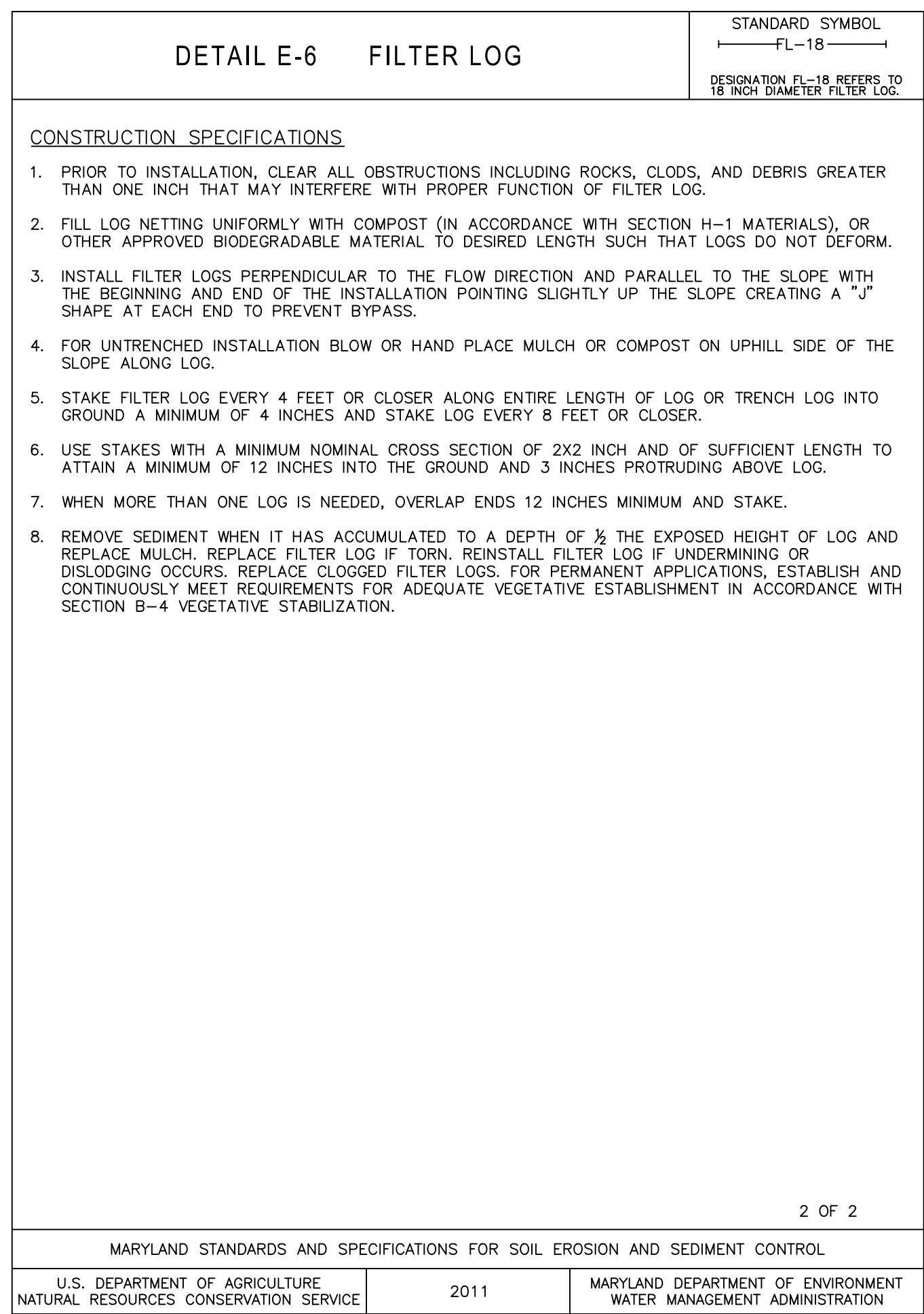
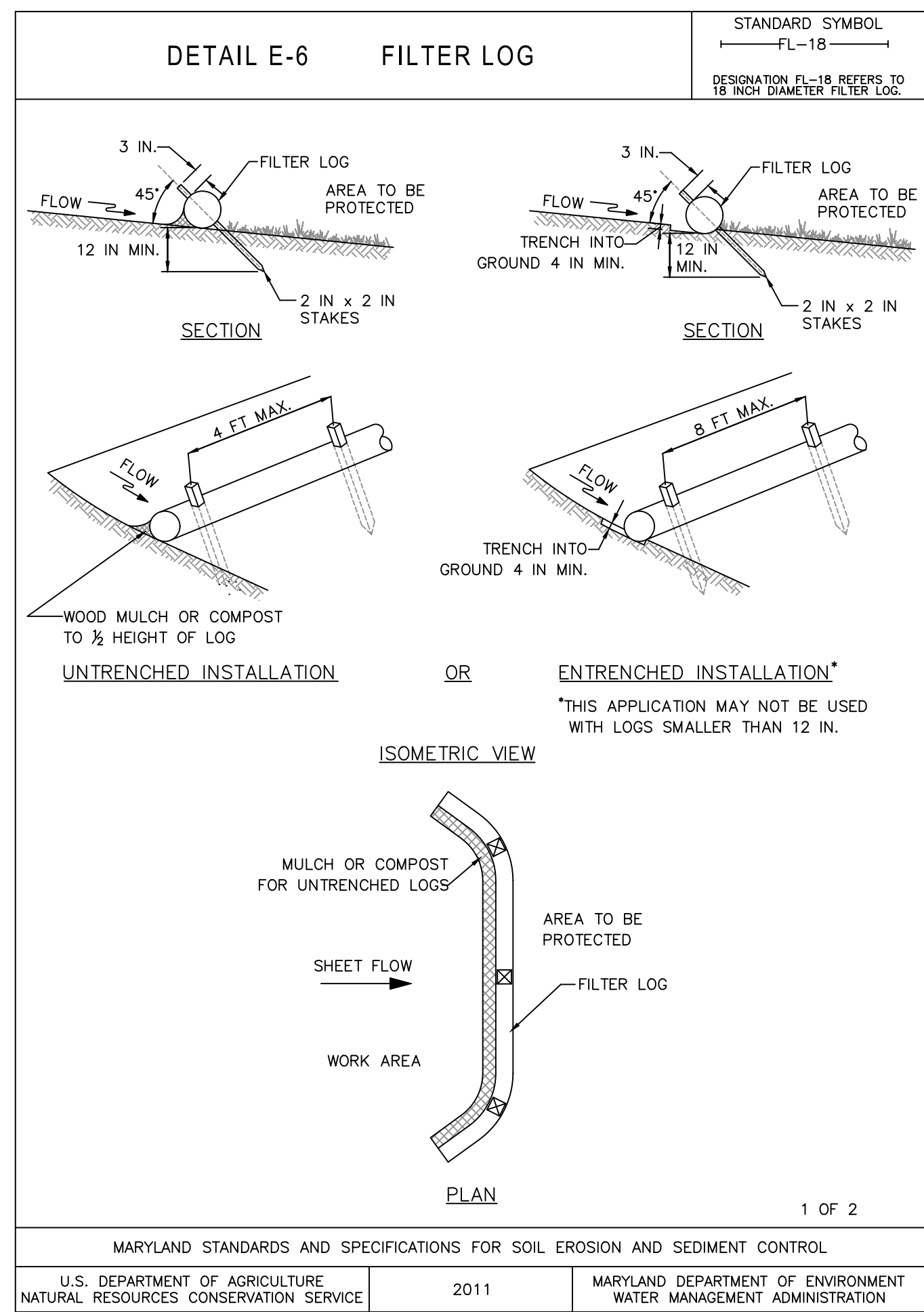
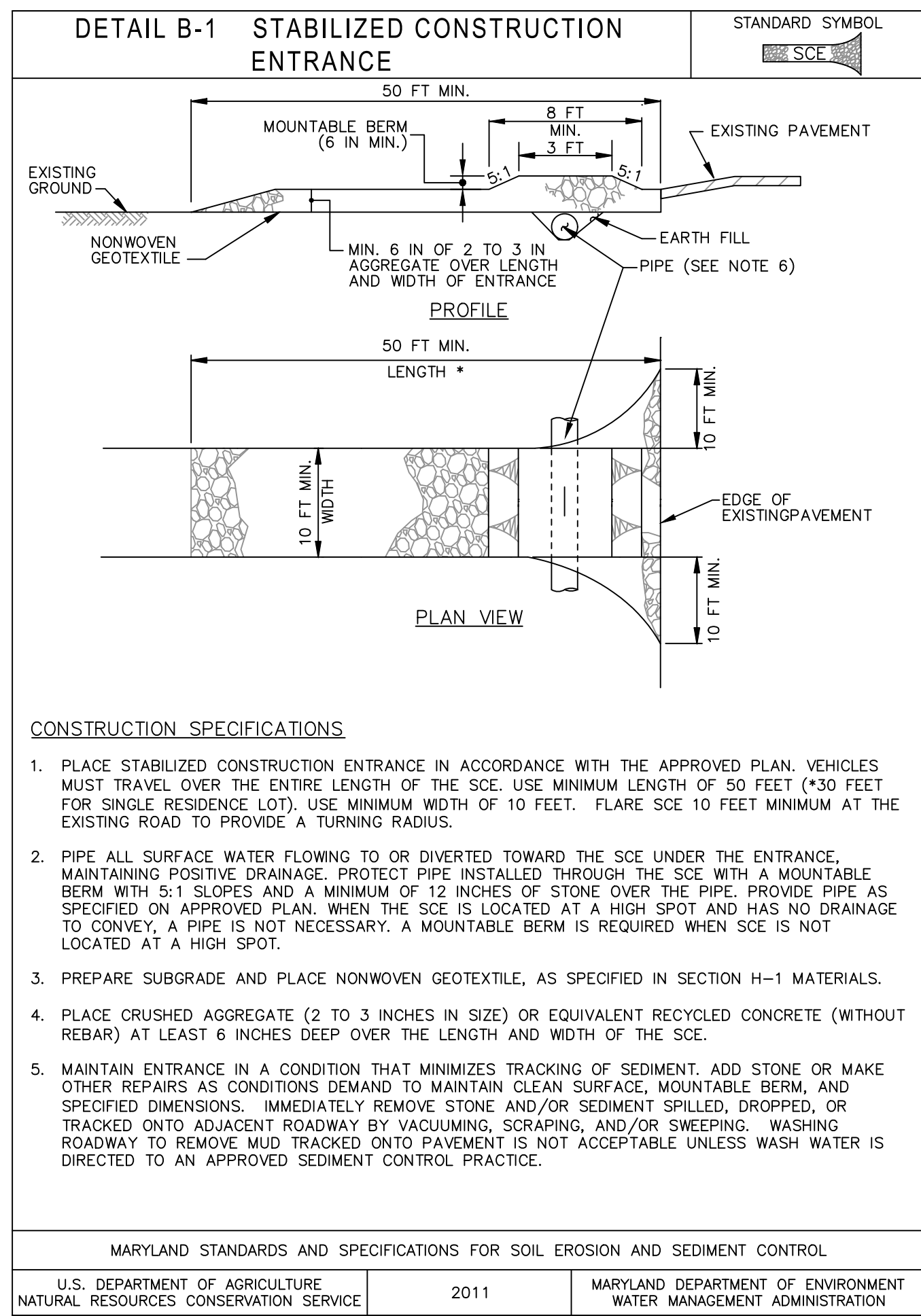
| TYPE OF INSPECTION | DEVELOPER ENGINEER APPROVAL/DATE | EEA INSPECTION/ DATE |
|--|----------------------------------|----------------------|
| 1) PRECONSTRUCTION MEETINGS | | |
| 2) COMPLETION OF SEDIMENT CONTROL MEASURES (IF USING BASIN SEE # 6 BELOW) | | |
| 3) PRIOR TO MODIFICATION OR REMOVAL OF 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/PONDS) 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 POUR 4. FORM STRIP AND FINISHING E. IMPOUNDING AREA 1. LOW FLOW CHANNELS 2. DEWATERING DEVICE 3. EMERGENCY SPILLWAY F. OUTFALL AREA (LEVEL SPREADER, RIPRAP CHANNEL, ETC.) G. VEGETATION STABILIZATION H. MISCELLANEOUS | | |

YOU MUST NOTIFY FREDERICK COUNTY ENVIRONMENTAL COMPLIANCE SECTION AT (301) 600-3307 BEFORE 6:00 AM 24 HOURS PRIOR TO THE REQUIRED INSPECTION. FAILURE TO NOTIFY THE AGENCY WILL RESULT IN A STOP WORK ORDER OR OTHER PENALTIES AS OUTLINED IN FREDERICK COUNTY CODES.

*****NOTICE*****

THIS LIST IS FOR SEQUENCE OF CONSTRUCTION ONLY. THE AGENCY ASSUMES NO RESPONSIBILITY OR LIABILITY FOR IMPROPER INSTALLATION OF ANY ITEM ON THIS CHECKLIST. THE AGENCY RECOMMENDS THAT A PROFESSIONAL ENGINEER BE PRESENT FOR EACH OF THE REQUIRED INSPECTIONS.

OWNER / DEVELOPER
TOWN OF EMMITSBURG, MARYLAND
300A SOUTH SETON AVE.
EMMITSBURG, MD 21727



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EMMITSBURG, MD 21727

ENGINEER DESIGN CERTIFICATION

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JOSEPH H. CECI REG. NO. 30709 DATE 12/20/23

FREDERICK SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

By: _____
DISTRICT MANAGER OR DESIGNEE

Date: _____
PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL

SCD APPROVAL FOR SEDIMENT AND EROSION CONTROL IS IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND IS CONTINGENT UPON ISSUANCE OF ALL APPLICABLE REGULATORY PERMITS.

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OWNER / DEVELOPER _____ DATE _____

FOX & ASSOCIATES INC.
Est. 1966

ENGINEERS-SURVEYORS-PLANNERS

82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD. 21701
PHONE: (301)735-8603
PHONE: (301)698-0880
FAX: (301)735-6069
WWW.FOXASOCIATESINC.COM Email: FOX@FOXASOCIATESINC.COM

DRAWN BY: _____
REVISION: _____
DATE: _____

WATER MAIN PLAN AND PROFILE
TOWN OF EMMITSBURG
DEPAUL ST WATER MAIN REPLACEMENT
PHASE 2
SITUATED ALONG DEPAUL STREET
TOWN OF EMMITSBURG
FREDERICK COUNTY, MARYLAND

SCALE: AS NOTED

PROFESSIONAL CERTIFICATION

STATE OF MARYLAND
JOSEPH H. CECI
REGISTERED PROFESSIONAL ENGINEER
12/20/23

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: 7/23/24

PROJECT NO. 23-31965
DRAWING NO. D-3609
DATE: DECEMBER 2023
DRAWN BY: JHC
CHECKED BY: JHC

SHEET 12 OF 12