

CONSTRUCTION SEQUENCE

PHASE 1:

1. INSTALL EROSION AND SEDIMENT CONTROL PRACTICES.
2. COMPLETE TREE REMOVAL AND STUMPING, COMPLETE DEMOLITION AND ABANDONMENT OF EXISTING STRUCTURES.
3. CONSTRUCT TEMPORARY ACCESS ROAD AND TEMPORARY LAYDOWN AREA.

PHASE 2:

1. INITIAL SITE GRADING, INCLUDING EXCAVATION FOR RETAINING WALL CONSTRUCTION.
2. SITE GRADING AND BUILDING CONSTRUCTION, SUBSTATION CONSTRUCTION.
3. CONCRETE FOUNDATIONS.
4. RETAINING AND SOUND ATTENUATION WALL CONSTRUCTION.
5. INSTALL UTILITIES AND EQUIPMENT.
6. UTILITY CABLING, WIRING AND TERMINATION.
7. FINAL STABILIZATION, TREE AND RESTORATION PLANTING AND REMOVAL OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS.
8. TESTING AND COMMISSIONING OF EQUIPMENT.

NOTE: PHASE AND DESCRIPTIONS ARE INTENDED TO PROVIDE A GENERAL DESCRIPTION OF GROUND DISTURBING ACTIVITIES. GROUND DISTURBANCES SUCH AS TRENCHING FOR CONDUIT AND OTHER ELECTRICAL EQUIPMENT INSTALLATION NEEDS MAY ALSO OCCUR DURING ANY PHASE OUTLINED ABOVE. THE OVERALL DISTURBANCE WILL BE MONITORED BY THE QUALIFIED INSPECTOR TO COMPLY WITH CGP REQUIREMENTS.

NOTE:

1. TREES TO BE REMOVED SHALL BE MARKED IN THE FIELD PER THE PLAN AND TREES TO REMAIN SHALL BE MARKED IN THE FIELD AND PROTECTED PER TREE PROTECTION DETAIL ON SHEET LP-501. ALL FIELD MARKINGS SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT AND CONSERVATION AGENT.

TREE SURVEYED TREE LEGEND				
NUMBER	SPECIES	DBH (Inches)	STATUS	APPROXIMATE CANOPY AREA (SF)
1	WHITE PINE	28	TO BE PROTECTED	1385
2	WHITE OAK	30	TO BE PROTECTED	1590
3	RED OAK	18	TO BE REMOVED	572
4	RED MAPLE	12	TO BE REMOVED	254
5	WHITE PINE	30	TO BE REMOVED	1590
6	RED MAPLE	12	TO BE REMOVED	254
7	WHITE OAK	12	TO BE REMOVED	254
8	RED MAPLE	18	TO BE REMOVED	572
9	POPLAR	5	TO BE REMOVED	44
10	GREY BIRCH	6	TO BE REMOVED	64
11	POPLAR	5	TO BE REMOVED	44
12	POPLAR	6	TO BE REMOVED	64
13	RED MAPLE	5	TO BE REMOVED	44
14	POPLAR	5	TO BE REMOVED	44
15	POPLAR	5	TO BE REMOVED	44
16	RED OAK	7	TO BE REMOVED	87
17	RED MAPLE	6	TO BE REMOVED	64
18	RED MAPLE	6	TO BE REMOVED	64
19	WHITE PINE	10	TO BE REMOVED	177
20	RED MAPLE	10	TO BE REMOVED	177
21	SHAGBARK HICKORY	8	TO BE REMOVED	113
22	BLACK OAK	6	TO BE REMOVED	64

NOTE:

1. THE TOTAL AREA WITHIN THE PROPOSED LIMIT OF WORK WITHIN THE PROPERTY BOUNDARY IS APPROXIMATELY 295,500 SF.
2. SEE SOIL EROSION AND SEDIMENT CONTROL NOTES ON CS002. SEE SOIL EROSION AND SEDIMENT CONTROL NOTE 12 FOR INSPECTION SCHEDULE.
3. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR DETAILED INSPECTION AND MAINTENANCE SCHEDULES.

08/01/24	NOI REVISIONS	3
10/04/23	NOI COMMENT REVISIONS	2
08/24/23	NOI COMMENT REVISIONS	1
Date	Description	No.

Revisions



LANGAN

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Boston, MA 02114

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Project

MEDWAY BATTERY ENERGY STORAGE SYSTEM

NORFOLK COUNTY MASSACHUSETTS

Drawing Title

SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I

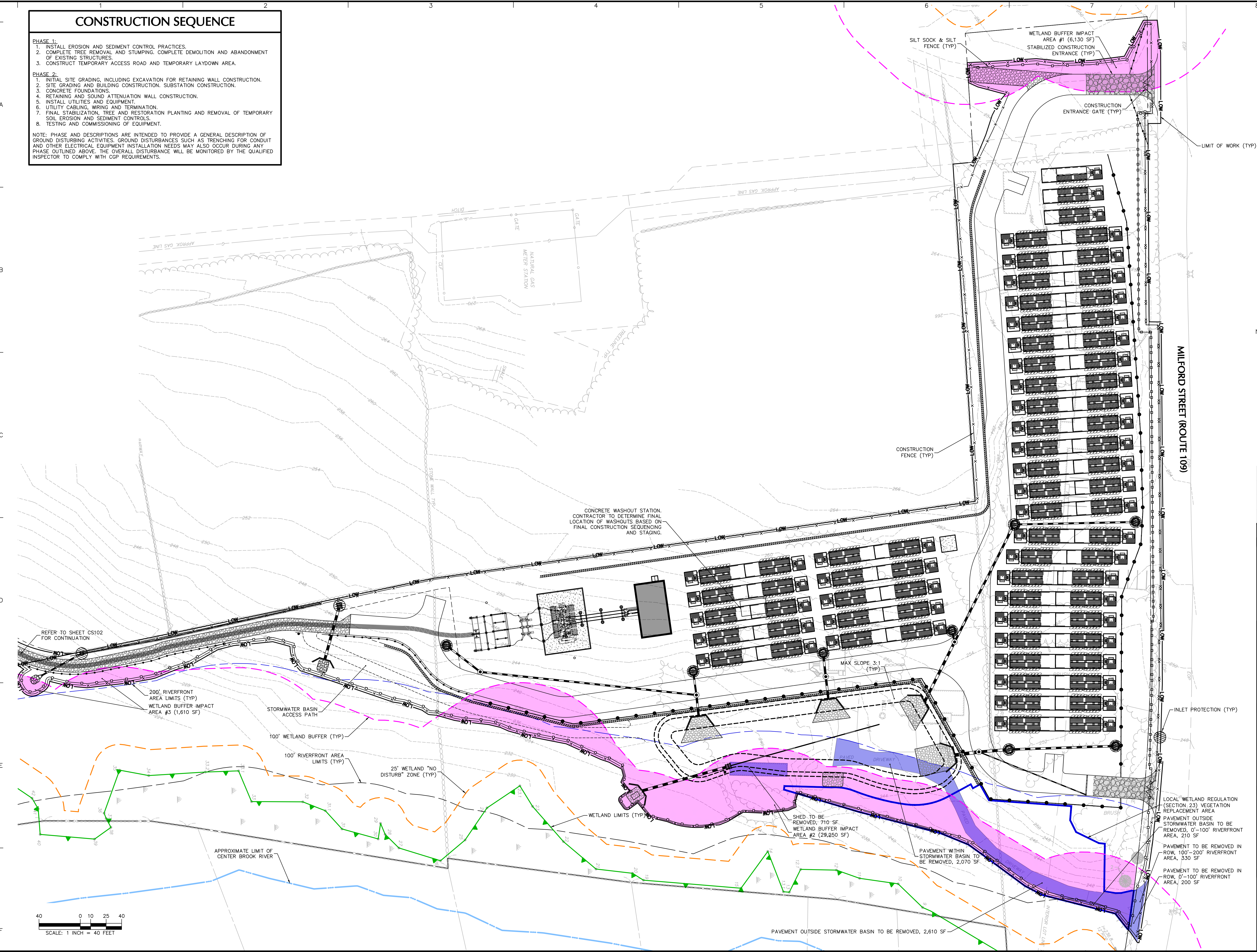
Project No.	151033401	Drawing No.	CE101
Date	06/08/2023		
Drawn By	JNW		
Checked By	FH		

CONSTRUCTION SEQUENCE

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D.P.U. 22-18
D.P.U. 22-19
MG-1 Attachment 1
Page 14 of 24



- NOTE:
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 2. THE PROJECT SITE IS ANTICIPATED TO REQUIRE AN IMPORT OF APPROXIMATELY 10,000 CY OF SOIL MATERIAL.
 3. SEE SOIL EROSION AND SEDIMENT CONTROL NOTES ON CS002. SEE SOIL EROSION AND SEDIMENT CONTROL NOTE 12 FOR INSPECTION SCHEDULE.
 4. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR DETAILED INSPECTION AND MAINTENANCE SCHEDULES.

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Project

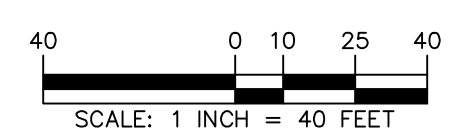
MEDWAY BATTERY ENERGY STORAGE SYSTEM

NORFOLK COUNTY MASSACHUSETTS

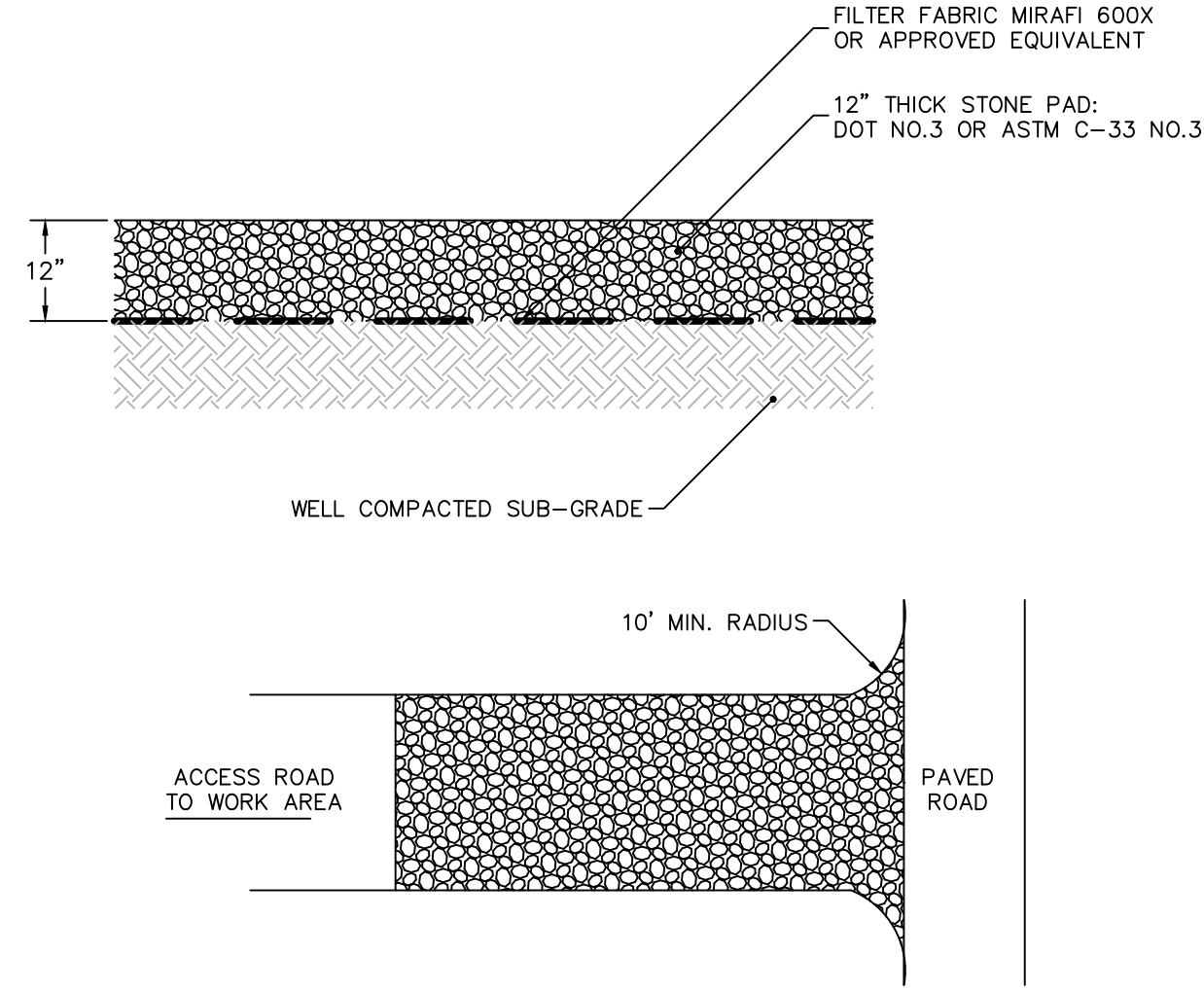
Drawing Title

SOIL EROSION & SEDIMENT CONTROL PLAN PHASE II

Project No.	Drawing No.
151033401	CE102
Date	06/08/2023
Drawn By	JNW
Checked By	FH

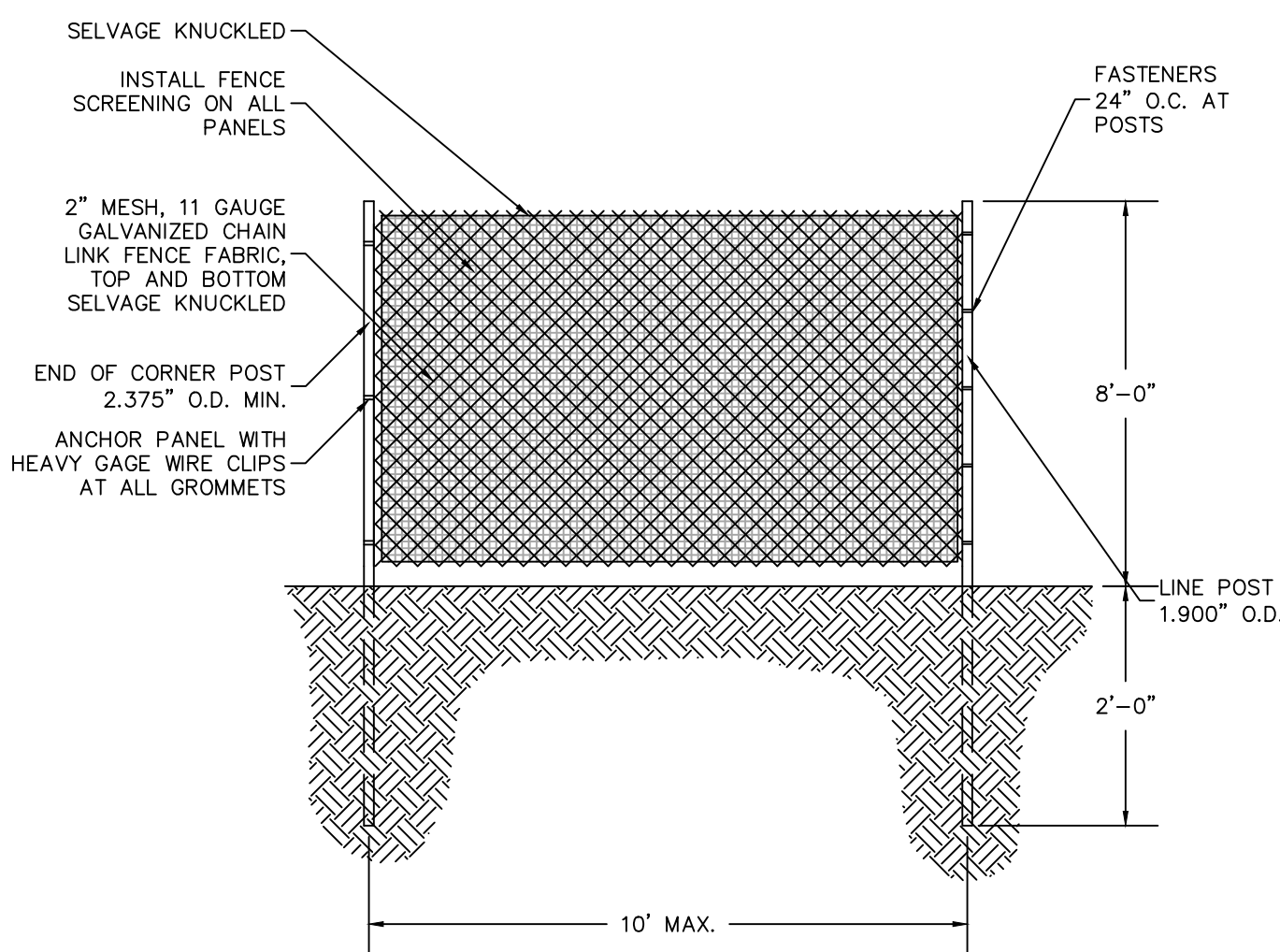


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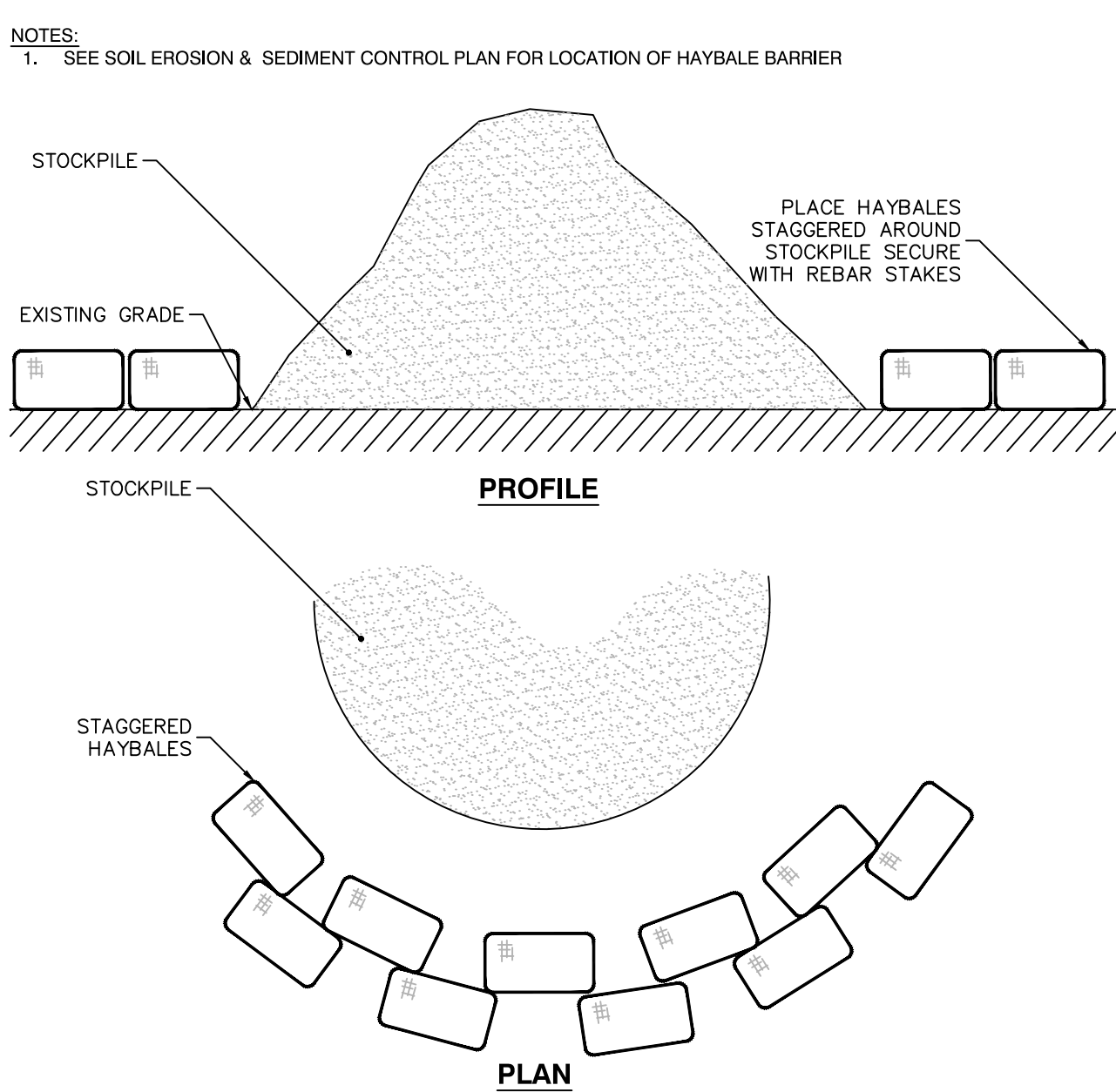
- NOTES:
1. CONSTRUCTION PAD LOCATION TO BE SET BY CONTRACTOR AND LOCATED AS REQUIRED FOR CONSTRUCTION SEQUENCING
 2. SEE SOIL EROSION & SEDIMENT CONTROL PLAN FOR DIMENSIONS
 3. WHERE SEDIMENT HAS BEEN TRACKED-OUT FROM THE SITE ONTO THE PAVED ROAD, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME BUSINESS DAY IN WHICH THE TRACK-OUT OCCURS OR BY THE END OF THE NEXT BUSINESS DAY IF TRACK-OUT OCCURS ON A NON-BUSINESS DAY. IF PAD IS MUDDY, STONE IS TOO SMALL (INSTALL LARGER STONE), IF PAD IS TOO THIN INSTALL ADDITIONAL STONE, AND/OR INSTALL ADDITIONAL FILTER FABRIC UNDER PAD. IF SEDIMENT IS WASHING INTO ROAD, IMPROVE UP GRADIENT RUNOFF CONTROLS, LENGTHEN PAD, AND/OR WIDEN FLARE OF PAD AT ROAD INTERFACE.

1 CONSTRUCTION ENTRANCE
N.T.S.



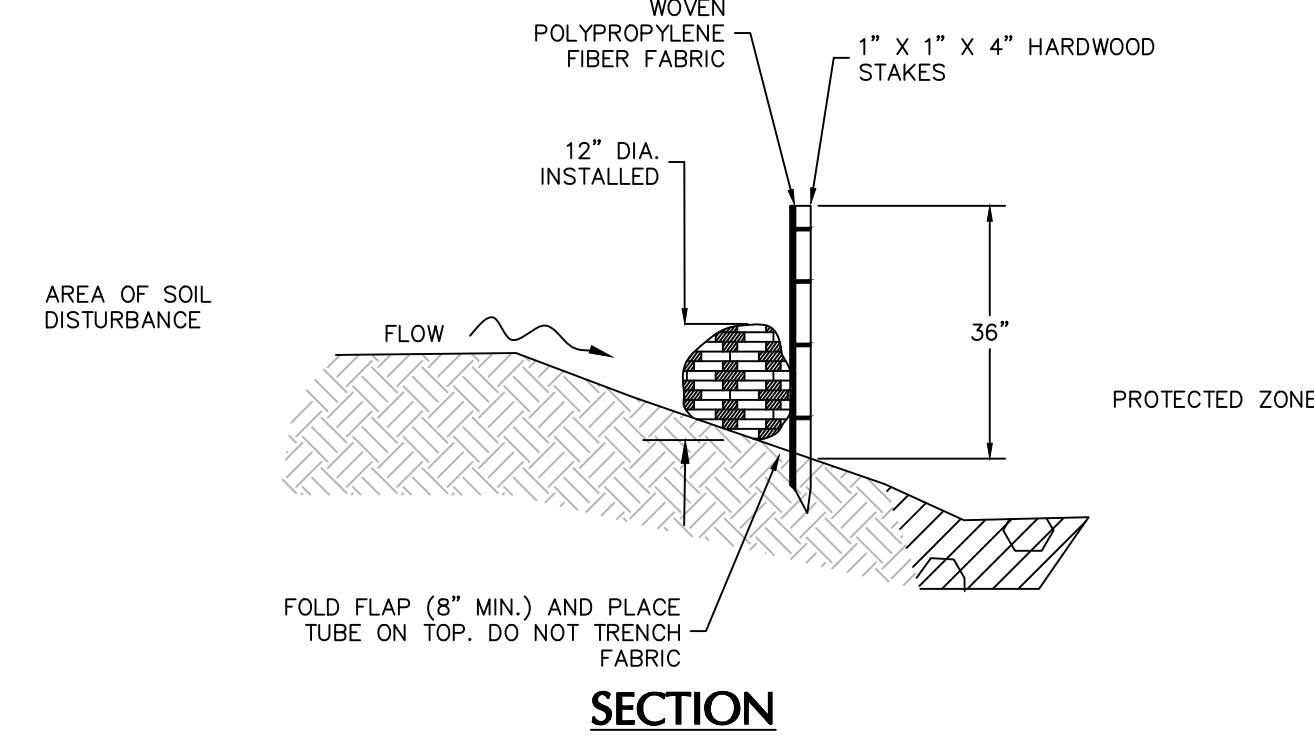
- NOTES:
1. PIPE POSTS SHALL BE IMBEDDED INTO THE GROUND. PEDESTAL MOUNTED FENCING WILL ONLY BE ALLOWED AT AREAS APPROVED BY THE PROJECT MANAGER. WHEN ALLOWED, PROVIDE CONCRETE OR GALVANIZED-STEEL BASES FOR SUPPORTING POSTS. PROVIDE BLUE REINFORCED SCRIM SHEETING ON ALL FENCING.

2 TEMPORARY CONSTRUCTION FENCE
N.T.S.



- NOTES:
1. REFER TO TEMPORARY STABILIZATION NOTES ON CS002 FOR MAINTENANCE OF TEMPORARY STOCKPILES.

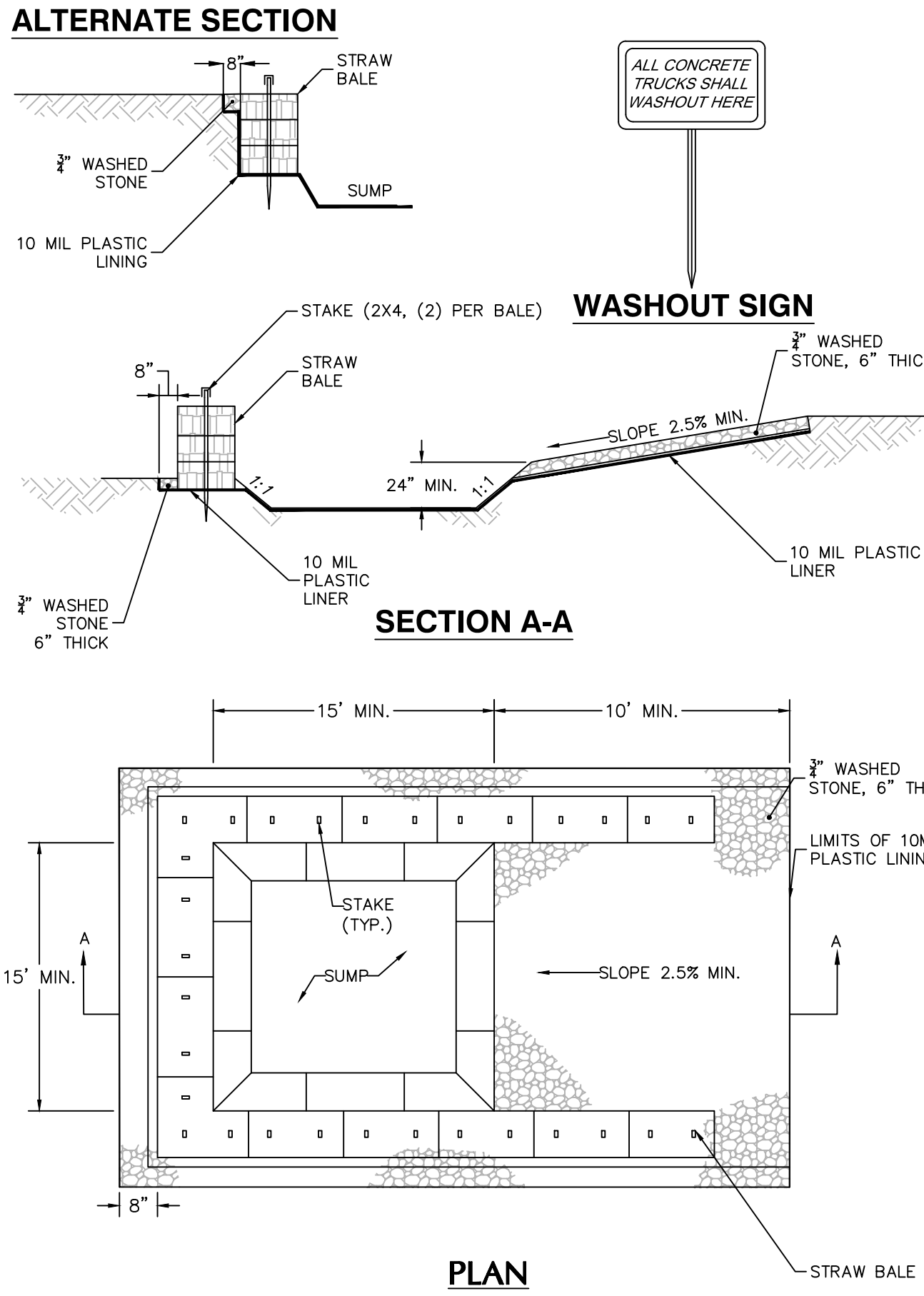
3 TEMPORARY STOCKPILE
N.T.S.



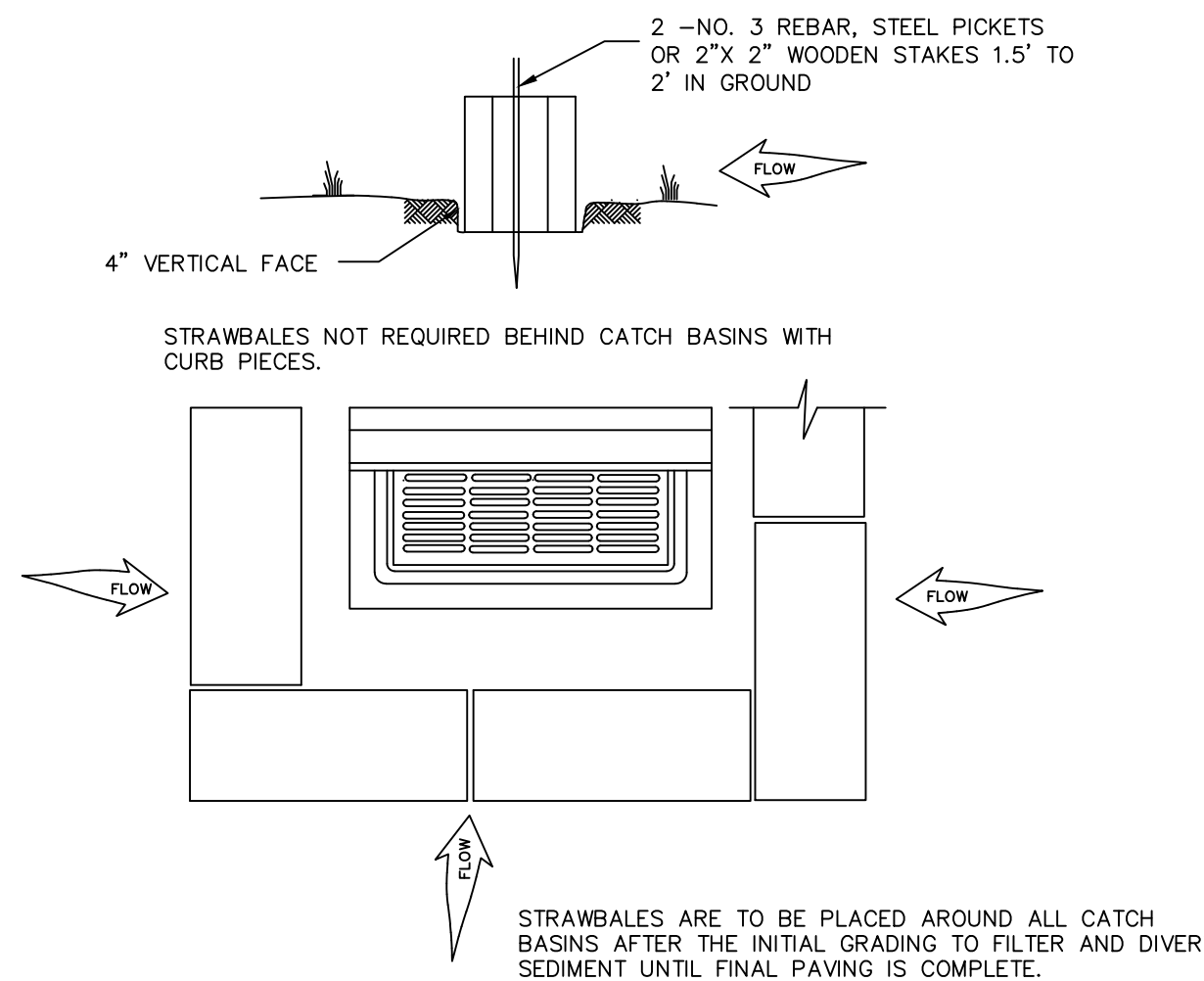
- NOTES:
1. MAINTENANCE SHALL CONSIST OF INSPECTION AND REMOVAL OF ACCUMULATED SEDIMENT BEFORE IT HAS ACCUMULATED TO HALF OF THE ABOVE-GROUND HEIGHT OF ANY PERIMETER CONTROL. SAGGING, FRAYED, TORN OR OTHERWISE DAMAGED FABRIC OR TUBE SHOULD BE REPAIRED OR REPLACED. REPAIR END RUNS AND UNDERCUTTING. INSPECT REINFORCEMENT AND STAKING MATERIALS FOR STRUCTURAL INTEGRITY AND REPLACE WHEN NECESSARY. AFTER A STORM EVENT, IF THERE IS EVIDENCE OF STORMWATER CIRCUMVENTING OR UNDERCUTTING THE PERIMETER CONTROL, EXTEND CONTROLS AND/OR REPAIR UNDERCUT AREAS TO FIX THE PROBLEM.

4 COMPOST FILTER TUBE & SILT FENCE
N.T.S.

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 2. THE PROJECT SITE IS ANTICIPATED TO REQUIRE AN IMPORT OF APPROXIMATELY 10,000 CY OF SOIL MATERIAL.
 3. SEE SOIL EROSION AND SEDIMENT CONTROL NOTES ON CS002. SEE SOIL EROSION AND SEDIMENT CONTROL NOTE 12 FOR INSPECTION SCHEDULE.
 4. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR DETAILED INSPECTION AND MAINTENANCE SCHEDULES.



5 CONCRETE WASHOUT AREA
N.T.S.

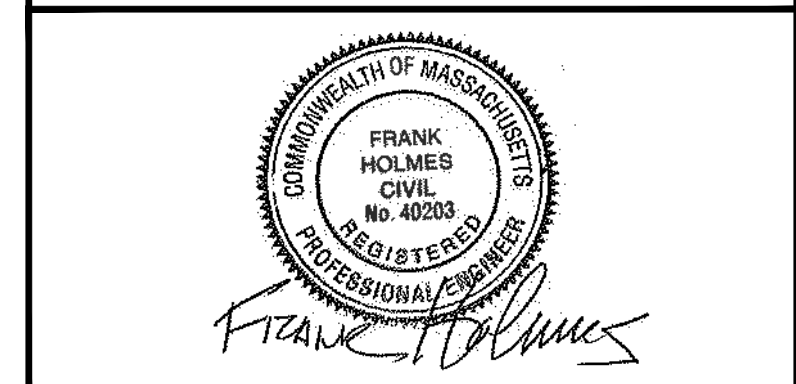


- NOTES:
1. CLEAN, OR REMOVE AND OR REMOVE AND REPLACE, THE INLET PROTECTION MEASURES WHEN SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE SILT SACK, THE FILTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED. WHERE THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT TO THE INLET PROTECTION MEASURE, REMOVE THE DEPOSITED SEDIMENT BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL BY THE SAME BUSINESS DAY IS NOT FEASIBLE. SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS.
 2. CONTRACTOR TO REMOVE FILTER JUST PRIOR TO PAVING.

6 INLET PROTECTION
N.T.S.

08/24/23	NOI COMMENT REVISIONS	1
Date	Description	No.

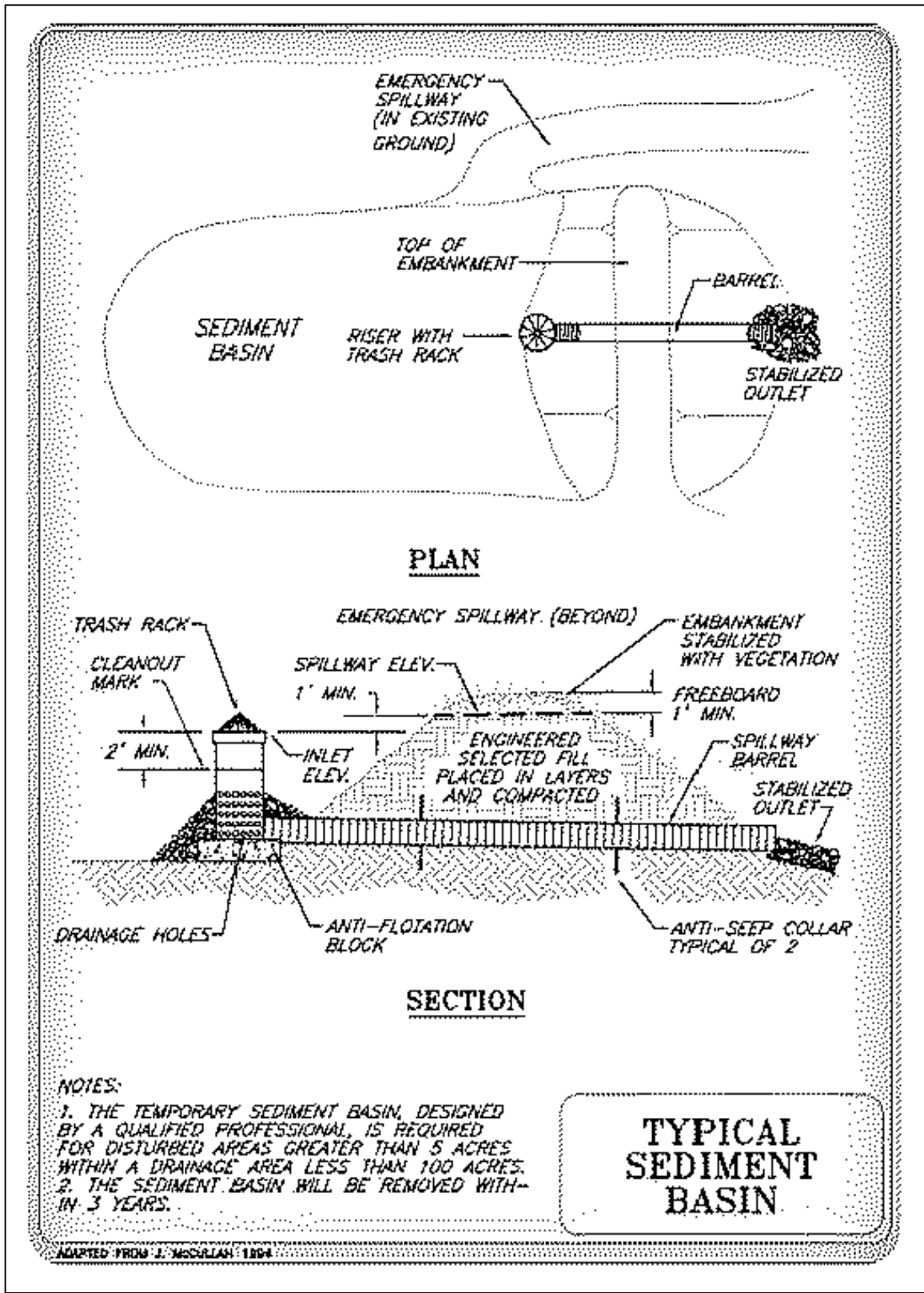
Revisions



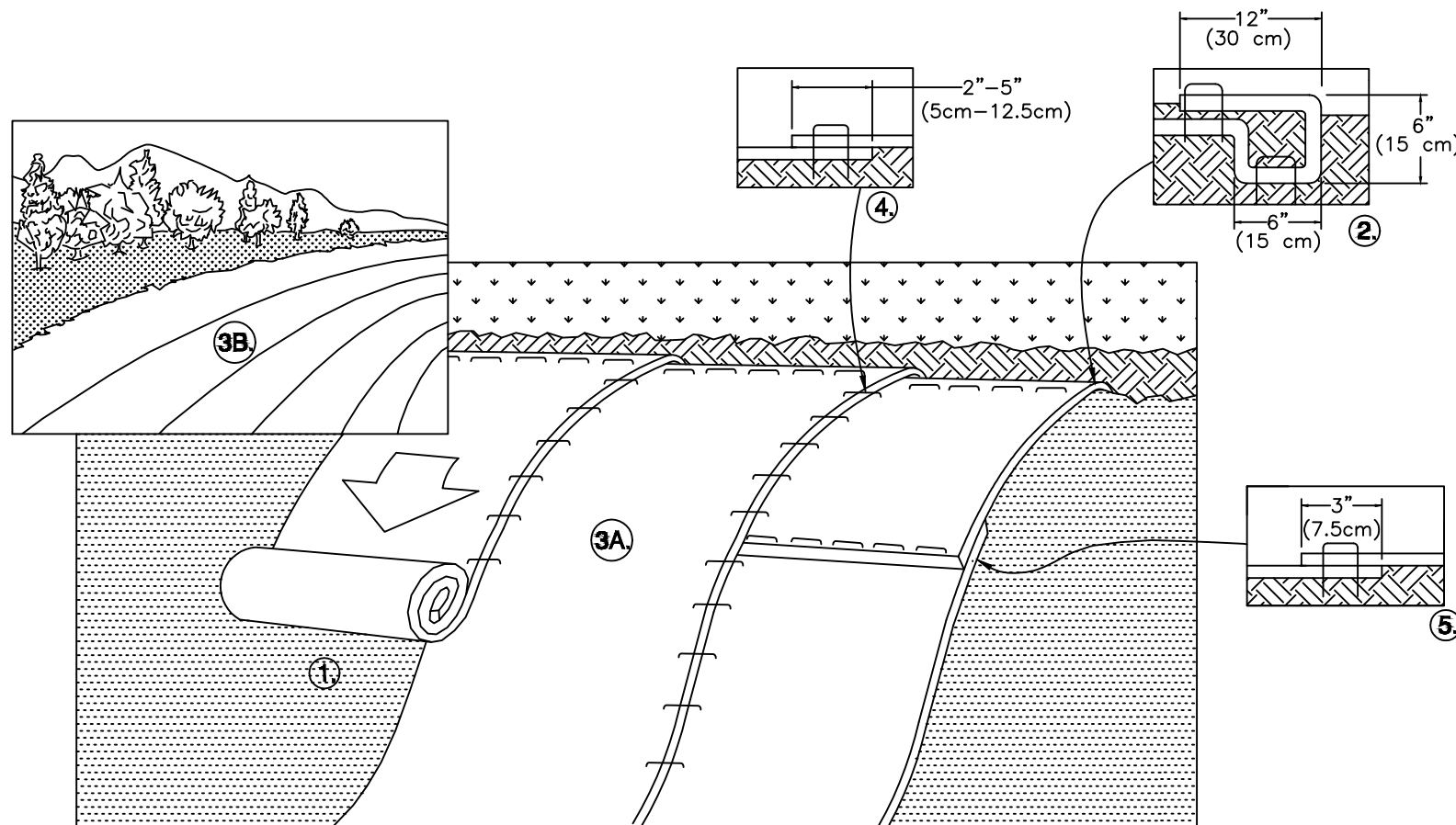
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Project
**MEDWAY BATTERY
ENERGY STORAGE
SYSTEM**
MEDWAY MASSACHUSETTS
NORFOLK COUNTY
Drawing Title
**SOIL EROSION &
SEDIMENT
CONTROL DETAILS**
I

Project No.	Drawing No.
151033401	CE501
Date	
06/08/2023	
Drawn By	
JNW	
Checked By	
FH	



- NOTES:**
- CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE OUTLET SHOULD MAINTAIN AT LEAST 1 FOOT BELOW THE CREST OF THE EMBANKMENT. ALSO CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS. DISPOSE OF REMOVED SEDIMENT IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND SEDIMENTATION PROBLEMS. THE TEMPORARY SEDIMENT BASIN MAY BE REMOVED UPON THE STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA. IF REMOVED, REFER TO GRADING AND DRAINAGE PLANS TO HOW THE AREA IS TO BE GRADED AND STABILIZED UPON REMOVAL. HEAVY EQUIPMENT IS RESTRICTED FROM USE WITHIN TEMPORARY SEDIMENT BASINS.



- NOTES:**
- EROSION CONTROL BLANKETS SHALL BE BIONET SC150BN OR APPROVED EQUAL.
 - PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, SLOW-RELEASE FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF THE BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
 - IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.
 - PROVIDE EROSION CONTROL BLANKET ON ALL SLOPES 4H:1V TO 3H:1V.
 - PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, SLOW-RELEASE FERTILIZER, AND SEED.
 - FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - SEE EROSION AND SEDIMENT CONTROL NOTE 5 ON DRAWING CS002 FOR SLOPE STABILIZATION ON SLOPES STEEPER THAN 3H:1V.

NOTE:

- SEE SOIL EROSION AND SEDIMENT CONTROL NOTES ON CS002. SEE SOIL EROSION AND SEDIMENT CONTROL NOTE 12 FOR INSPECTION SCHEDULE.
- REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR DETAILED INSPECTION AND MAINTENANCE SCHEDULES.

SEDIMENT BASIN

N.T.S.

EROSION CONTROL BLANKETS (SLOPE STABILIZATION SLOPES 4H:1V TO 3H:1V)

N.T.S.

10/04/23	NOI COMMENT REVISIONS	2
08/24/23	NOI COMMENT REVISIONS	1
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Revisions

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Project

MEDWAY BATTERY ENERGY STORAGE SYSTEM

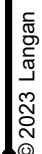
MEDWAY

NORFOLK COUNTY MASSACHUSETTS

Drawing Title

SOIL EROSION & SEDIMENT CONTROL DETAILS II

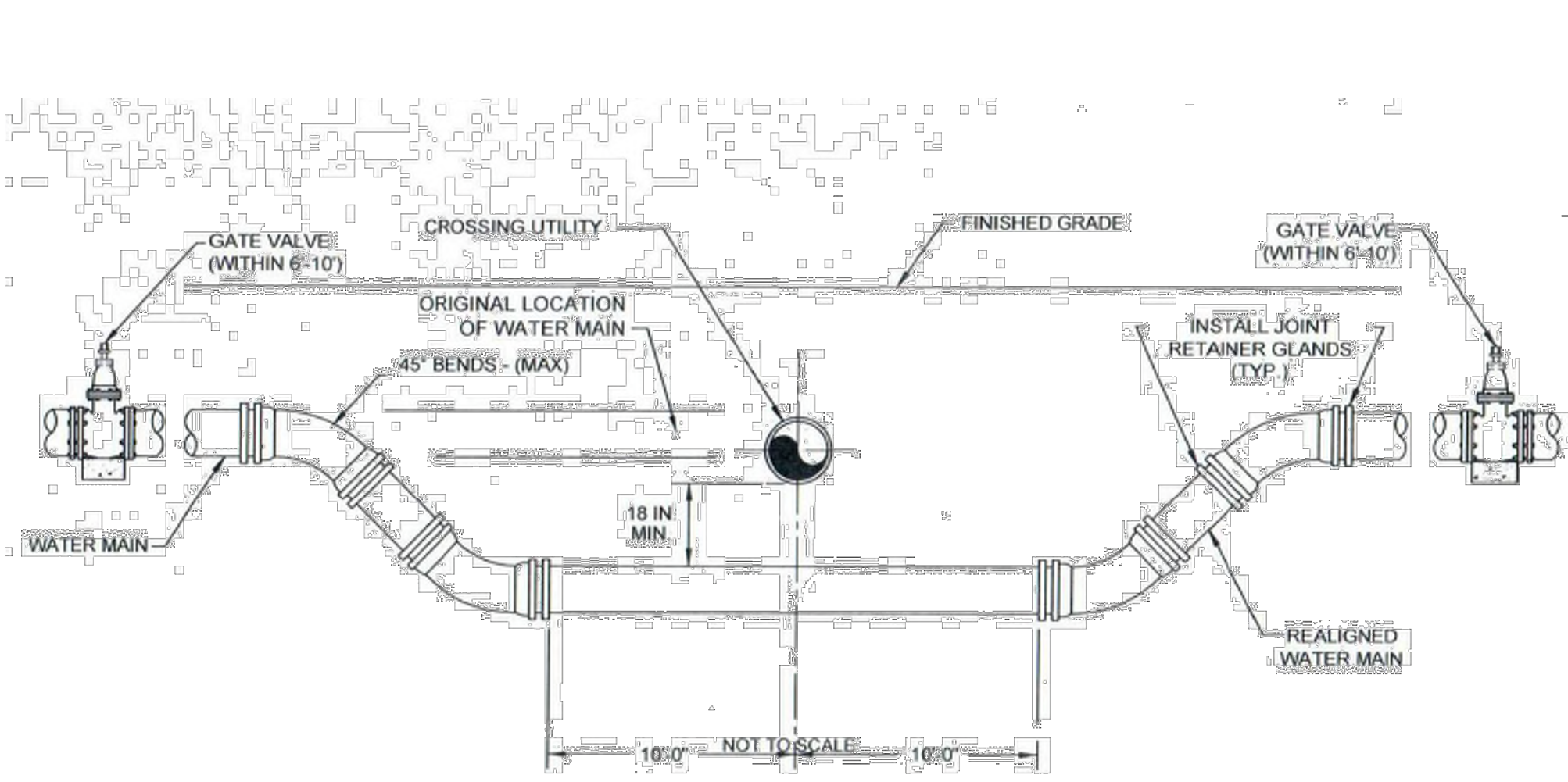
Project No.	Drawing No.
151033401	CE502
Date	
06/08/2023	
Drawn By	
JNW	FH
Checked By	



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UTILITY PLAN

Date: 8/1/2024 Time: 10:23 User: cbrummel Style Table: Langan sth Layout: CII101 Document Code: 151033401-0501-CII101-0101

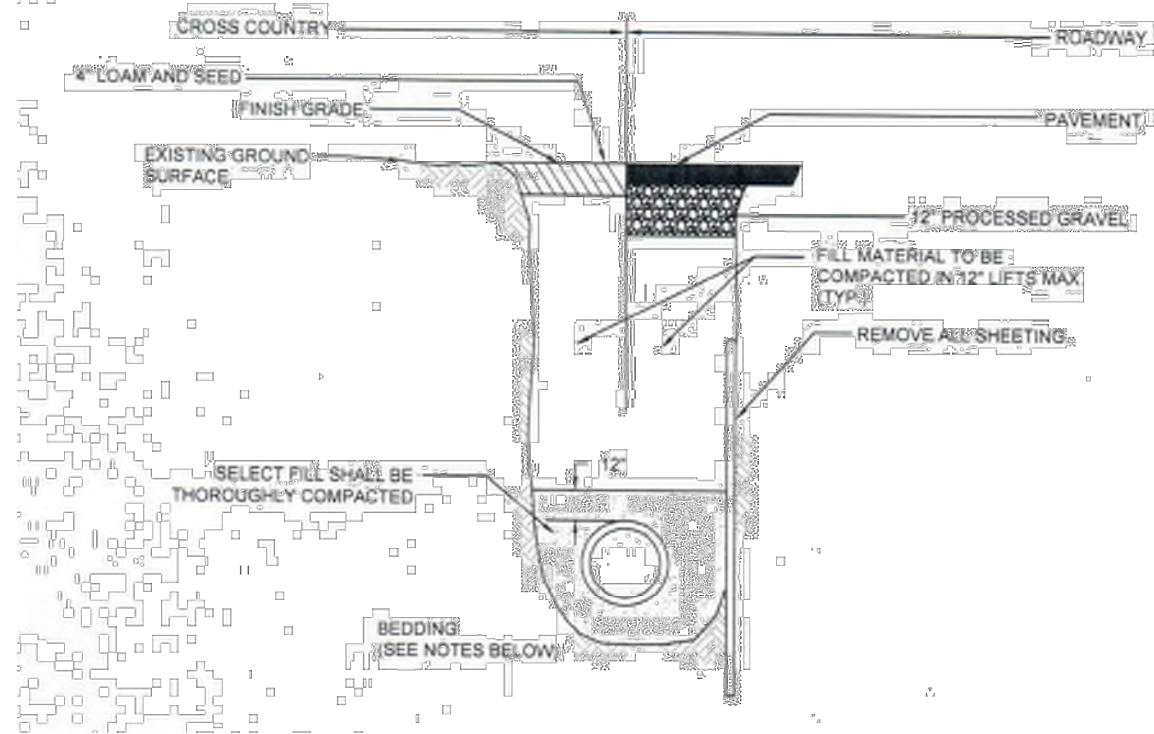


- NOTES:
1. ALL FITTINGS AND JOINTS IN LOWERING AREA TO BE RESTRAINED. TOWN MAY REQUIRE THREADED ROD RESTRAINS IN CERTAIN SITUATIONS.
 2. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS INDICATED IN THE DETAIL ABOVE, BOTH THE WATER AND THE SEWER SHOULD BE ENCASED IN CONTROL DENSITY FILL FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.
 3. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT WHEN CONTACTING CONTROL DENSITY FILL.

1

WATER MAIN LOWERING DETAIL

N.T.S. - SOURCE: TOWN OF MEDWAY DEPARTMENT OF PUBLIC SERVICES

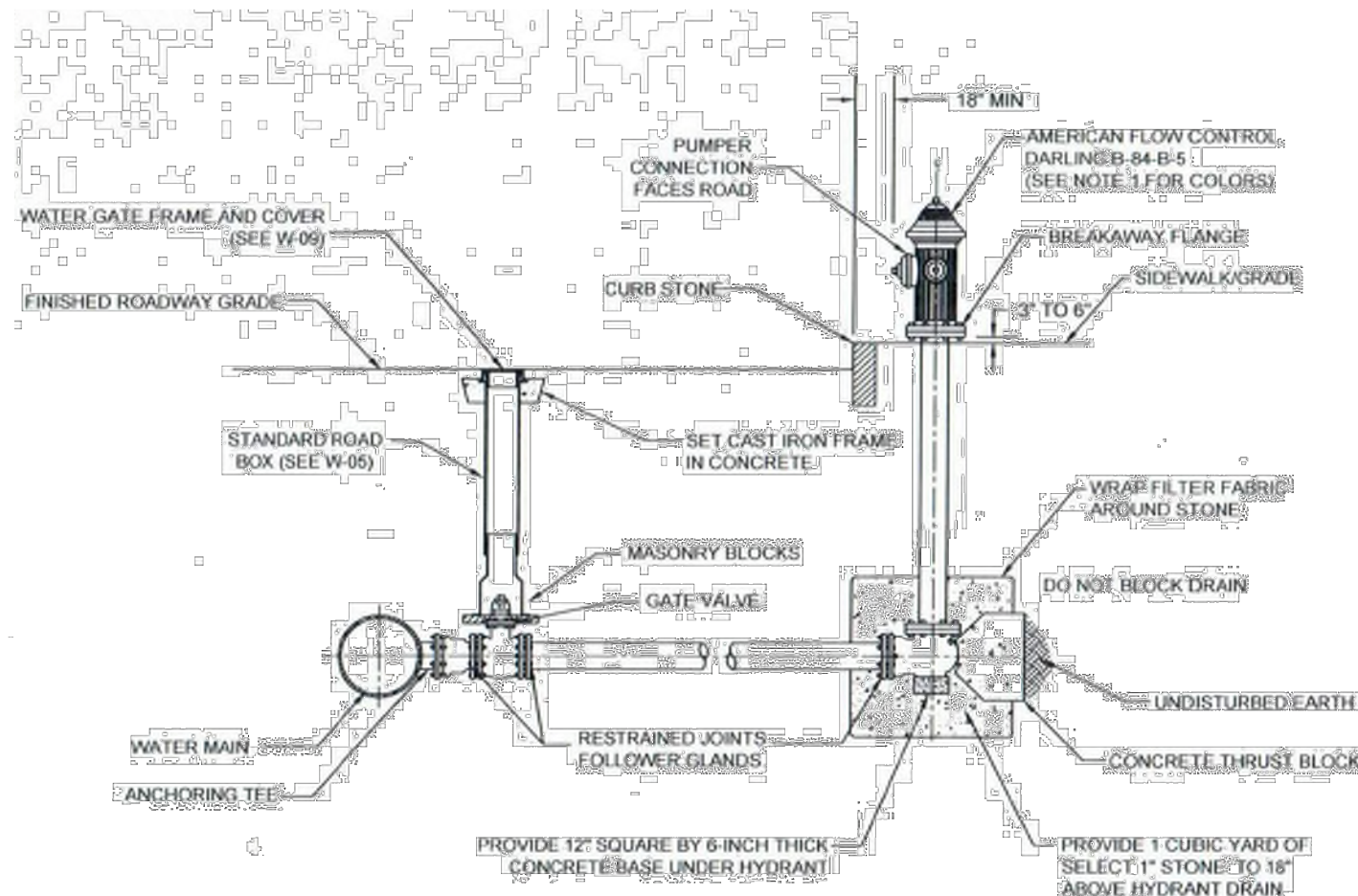


- NOTES:
1. TOWN OF MEDWAY MAY REQUIRE FLOWABLE FILL AT ITS DISCRETION.
 2. FOR LOCATIONS WHERE LEDGE IS NOT ENCOUNTERED IN TRENCH, PIPE CAN LAY ON UNDISTURBED EARTH, OR ON SAND BEDDING CONSISTENT WITH AWWA GUIDELINES.
 3. FOR LOCATIONS WHERE LEDGE IS ENCOUNTERED, SAND BEDDING SHALL BE MINIMUM 12" THICK UNDER PIPE.
 4. FILL MATERIAL SHALL BE COMPACTED TO 95% PROCTOR DENSITY.
 5. WATER MAIN SHALL HAVE 2'-0" MINIMUM COVER. LESS THAN 5'-0" OF COVER SHALL BE INSULATED.
 6. LEDGE SHALL BE REMOVED 12 INCHES AROUND PIPE.

3

WATER MAIN TRENCH

N.T.S. - SOURCE: TOWN OF MEDWAY DEPARTMENT OF PUBLIC SERVICES

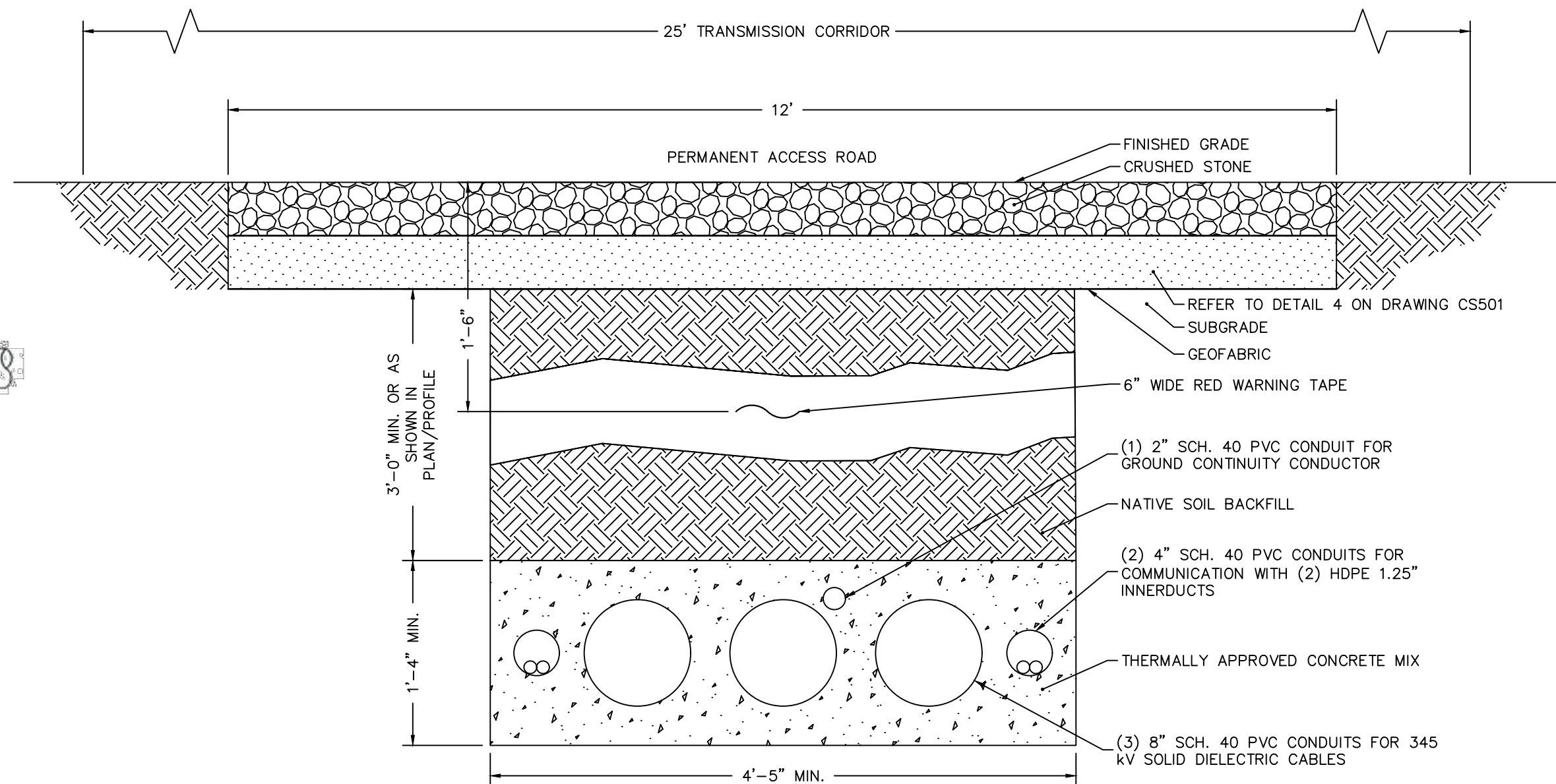


- NOTES:
1. HYDRANT SHALL BE PAINTED THE FOLLOWING COLORS:
BARREL: BLUE SAFETY (COLOR CODE: 822913)
COVER & CAPS: SILVER (COLOR CODE: 822903)
 2. HYDRANT SHALL OPEN LEFT PER TOWN STANDARDS.
 3. HYDRANT LATERAL SHALL BE FULLY RESTRAINED.
 4. 3'-0" CLEAR AND FLAT ALL AROUND HYDRANT PER NFPA STANDARD.

6

FIRE HYDRANT INSTALLATION

N.T.S. - SOURCE: TOWN OF MEDWAY DEPARTMENT OF PUBLIC SERVICES

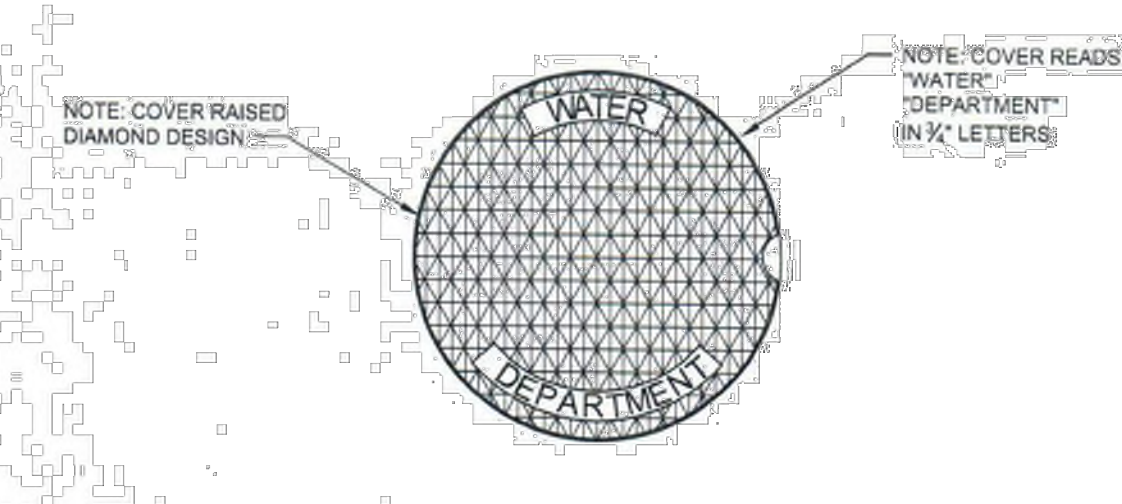


- NOTES:
1. DETAIL FOR REFERENCE ONLY. REFER TO PLANS PREPARED BY POWER ENGINEERS FOR TRENCH SECTION AND CONDUIT LAYOUT SPECIFICATIONS.

2

TYPICAL CONDUIT TRENCH SECTION

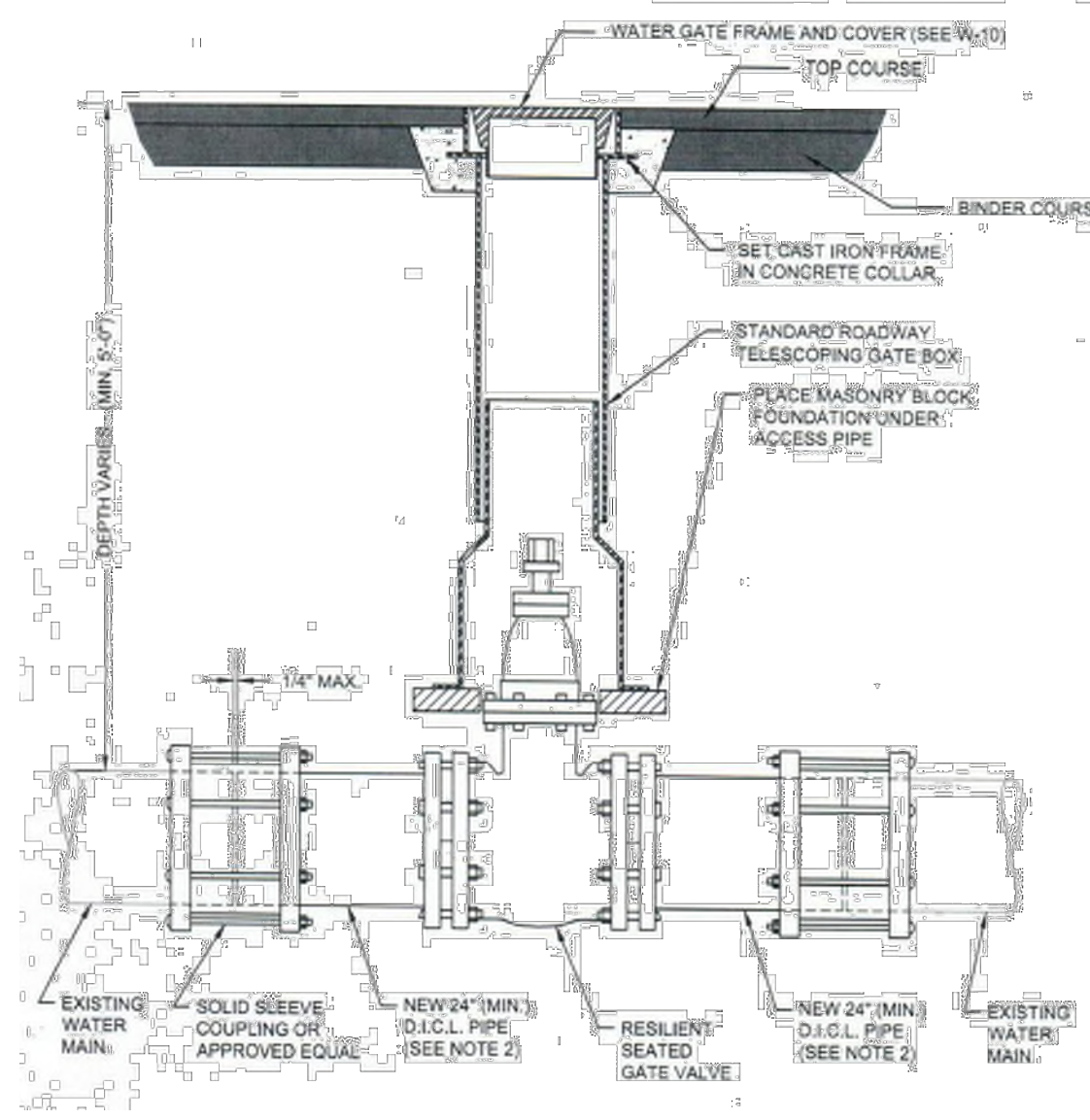
N.T.S. SOURCE: POWER ENGINEERS



4

WATER GATE COVER

N.T.S.

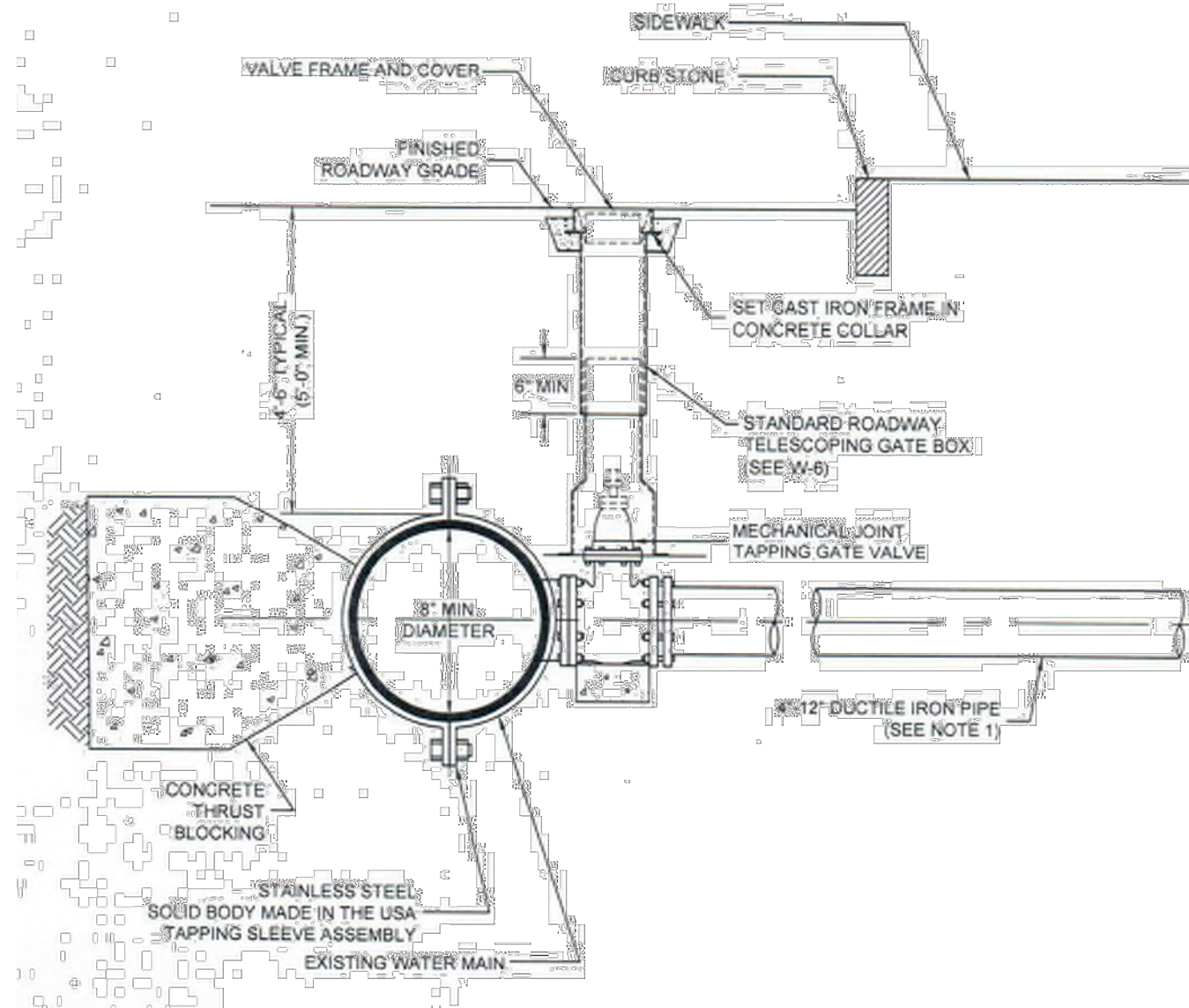


- NOTES:
1. ALL EXCAVATION, BACKFILLING AND PAVING SHALL BE IN ACCORDANCE WITH THE TOWN OF MEDWAY REQUIREMENTS.
 2. TO THE EXTENT PRACTICAL, VALVE TO BE INSTALLED DIRECTLY TO EXISTING MAIN TO MINIMIZE NUMBER OF MECHANICAL JOINTS.

7

GATE VALVE

N.T.S. - SOURCE: TOWN OF MEDWAY DEPARTMENT OF PUBLIC SERVICES

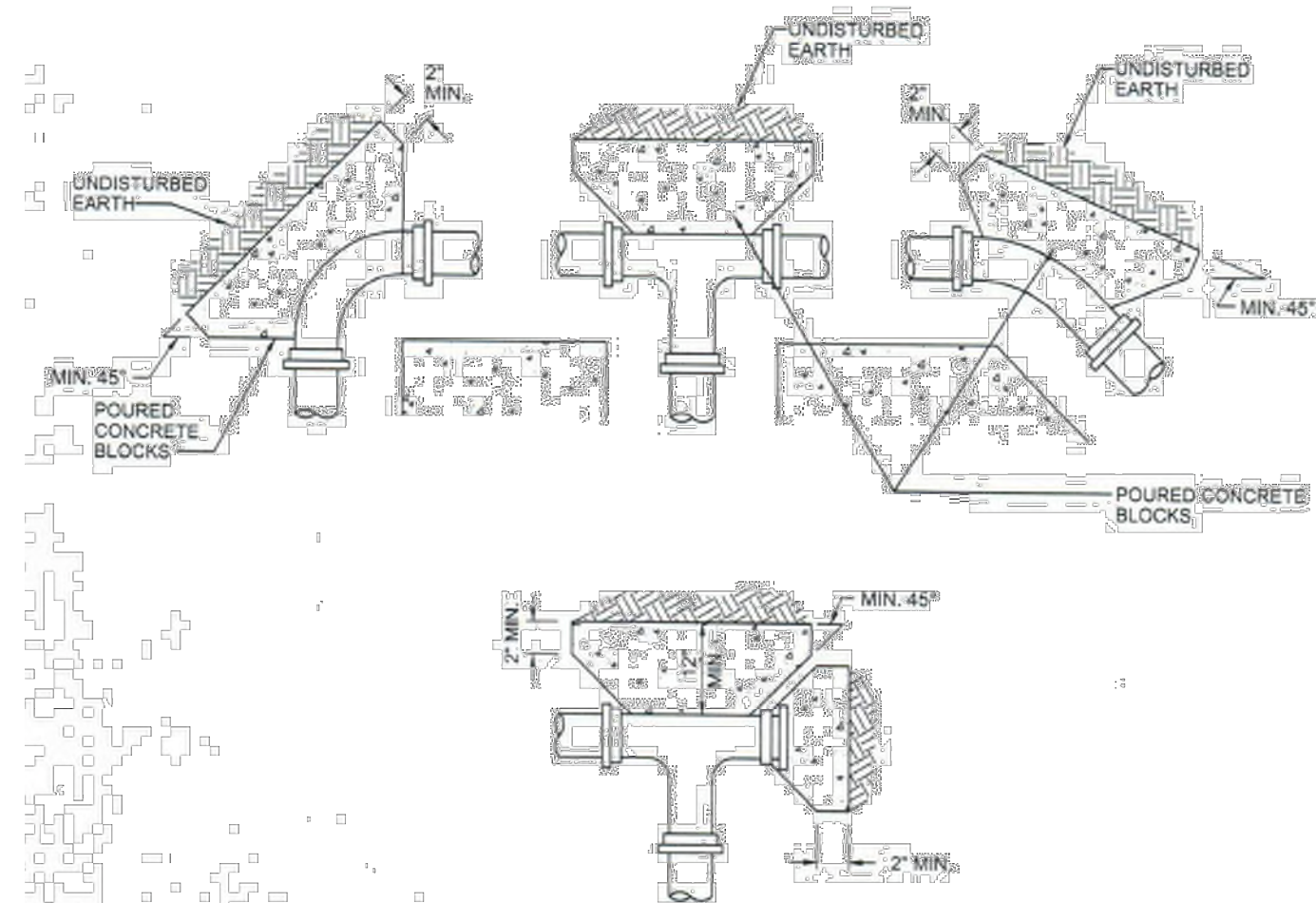


- NOTES:
1. MAXIMUM TAPPING SLEEVE SHALL NOT BE GREATER THAN 1/2 DIAMETER OF CONNECTING MAIN.
 2. MECHANICAL JOINT RESTRAINTS AND GASKETS ON ALL MECHANICAL JOINTS.
 3. TOWN MAY REQUIRE THREADED ROD AS RESTRAINT.

5

TYPICAL CONNECTION (TAPPING SLEEVE)

N.T.S. - SOURCE: TOWN OF MEDWAY DEPARTMENT OF PUBLIC SERVICES



- NOTES:
1. SPECIFIC THRUST BLOCK DESIGN SHALL CONFORM TO AWWA GUIDELINES.
 2. PLACE 4 MIL. POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT).
 3. MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES.
 4. THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF THE FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK.
 5. THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

8

TYPICAL THRUST BLOCK

N.T.S. - SOURCE: TOWN OF MEDWAY DEPARTMENT OF PUBLIC SERVICES

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NORFOLK COUNTY MASSACHUSETTS

Drawing Title

UTILITY DETAILS I

Project No.	Drawing No.
151033401	CU501
Date	
06/08/2023	
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JNW	
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