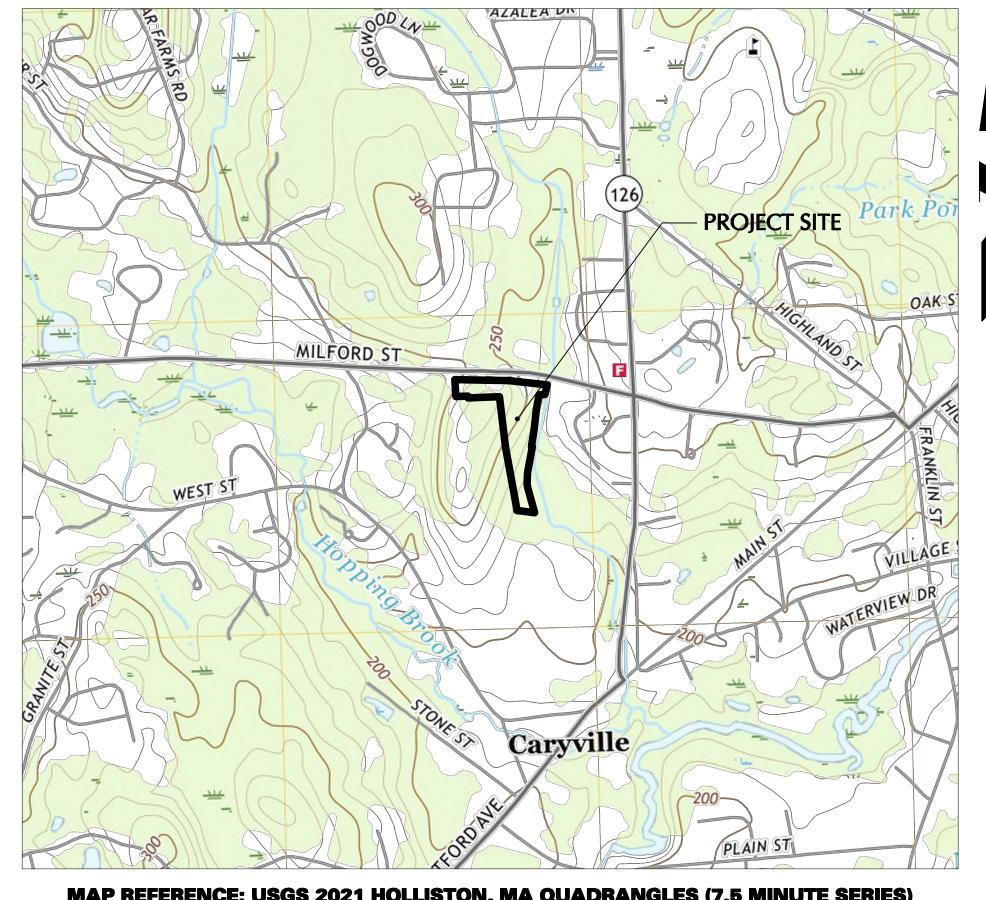
MEDWAY BATTERY ENERGY STORAGE SYSTEM NOI PLAN SET

PARCELS: 046-005, 046-0056, 046-0057, 0056-0006 TOWN OF MEDWAY, NORFOLK COUNTY, MASSACHUSETTS

CIVIL DRAWING INDEX						
SHEET NUMBER	DRAWING TITLE	DATE	LAST REVISED			
CS001	SITE COVER SHEET	06/08/2023	08/01/2024			
CS002	MASTER LEGEND & NOTES	06/08/2023	10/04/2023			
EX101	RESOURCE DELINEATION PLAN I	10/04/2023				
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CS101	OVERALL SITE PLAN	06/08/2023	08/01/2024			
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CD101	SITE PREPARATION PLAN	06/08/2023	10/04/2023			
CG101	GRADING & DRAINAGE PLAN	06/08/2023	08/01/2024			
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CE101	SOIL & EROSION CONTROL PLAN - PHASE I	06/08/2023	08/01/2024			
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CU101	UTILITY PLAN	06/08/2023	08/01/2024			
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TM101	TANKER TRUCK TURNING MOVEMENT PLAN	08/24/2023	08/01/2024			
TM102	LADDER TRUCK TURNING MOVEMENT PLAN	08/24/2023	08/01/2024			
LL101	SITE LIGHTING PLAN	06/08/2023	08/01/2024			
LL501	SITE LIGHTING DETAILS	06/08/2023				
LP101	PLANTING PLAN	06/08/2023	08/01/2024			
LP501						



MAP REFERENCE: USGS 2021 HOLLISTON, MA QUADRANGLES (7.5 MINUTE SERIES) **LOCATION MAP**

SCALE: 1" = 1000'

RELEASE DATES					
DATE	ISSUED FOR				
06/08/2023	NOTICE OF INTENT				
08/24/2023	NOI COMMENT REVISIONS				
10/04/2023	NOI COMMENT REVISIONS				
08/01/2024	NOI REVISIONS				

OWNER/APPLICANT MEDWAY GRID, LLC C/O: ANDREW CATANIA 110 EDISON PLACE, SUITE 312 **NEWARK, NJ 07102 EMAIL:** AFC@VCRENEWABLES.COM

WETLANDS & NATURAL RESOURCES EPSILON ASSOCIATES, INC. C/O: MARC BERGERON 3 MILL & MAIN PLACE, SUITE 250 MAYNARD, MA 01754 PHONE: 978-461-6253 **EMAIL:** MBERGERON@EPSILONASSOCIATES.COM

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GEOTECHNICAL ENGINEER GZA GEOENVIRONMENTAL, INC. C/O: BRUCE FAIRLESS 249 VANDERBILT AVENUE NORWOOD, MA 02062 PHONE: 781-248-3700 EMAIL: BRUCE.FAIRLESS@GZA.COM LAND SURVEYOR LAND PLANNING, INC. C/O: NORMAN G. HILL 1115 MAIN STREET HANSON, MA 02341 PHONE: 781-294-4144

EPC CONTRACTOR MCPHEE ELECTRIC, LTD. C/O: MAX MCPHEE **505 MAIN STREET** FARMINGTON, CT 06032 PHONE: 860-677-9797



- 2. THE SITE LIES IN FLOOD ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP NORFOLK COUNTY, FEMA MAP NUMBER 25021C0139E, EFFECTIVE 7/17/2012.
- 3. THE BOUNDARIES OF THE WETLAND RESOURCE AREAS ON THE PROJECT SITE AND ON ADJACENT PARCELS INCLUDING; 55 AND 61 MILFORD STREET (EVERSOURCE PARCELS TO THE WEST OF PROJECT SITE) AND 9 SUMMER STREET (CONSTELLATION PARCELS TO THE SOUTH OF THE PROJECT SITE) HAVE BEEN REVIEWED AND VERIFIED THROUGH EITHER AN ORDER OF RESOURCE AREA DELINEATION ("ORAD"), ISSUED ON FEBRUARY 27, 2020 OR BY REVIEW OF A THIRD-PARTY 13. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON IS TAKEN FROM DESIGN WETLAND CONSULTANT (ECOTEC, INC) ON AUGUST 3, 2023.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (WWW.DIGSAFE.COM), EXCAVATION TEST HOLES, PERFORMING TEST BORINGS, AND PERFORMING WHATEVER ADDITIONAL INVESTIGATION NECESSARY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES TO REMAIN THROUGHOUT THE CONSTRUCTION PERIOD. ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE PROJECT ENGINEER.
- 5. CONTRACTOR SHALL PREVENT DUST, SEDIMENT AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. ADJOINING STREETS AND PROPERTIES TO BE KEPT FREE OF DEBRIS RESULTING FROM DEMOLITION AND SHALL BE CLEANED ON A DAILY BASIS OR AS NEEDED.
- 6. DUST CONTROL TREATMENTS SHALL BE APPLIED AS NECESSARY TO CONTROL AND REDUCE THE AMOUNT OF DUST WHICH MAY CAUSE OFF-SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE AND PLANT LIFE, OR POSE A HAZARD TO TRAFFIC SAFETY.
- . PROPOSED SITE WORK IMPROVEMENTS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE TOWN OF MEDWAY. IN THE ABSENCE OF LOCAL STANDARDS, SITE WORK SHALL CONFORM TO THE REQUIREMENTS OF MASSACHUSETTS DOT STANDARD DETAILS.
- 8. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY 19. BOTTOM AND TOP OF RETAINING WALL ELEVATION SPOT SHOTS REPRESENT THE BASE OF THE COMPANIES. AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY DISCREPANCIES DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE PROJECT ENGINEER.
- 9. ANY UTILITY EASEMENTS REQUIRED BY ANY OF THE VARIOUS UTILITY COMPANIES, THE CONTRACTOR SHALL OBTAIN, EXECUTE, AND RECORD PRIOR TO ANY OF THE AFFECTED UTILITY WORK BFING PERFORMED.
- 10. ALL IMPROVEMENTS CONSTRUCTED IN THE TOWN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO TOWN OF MEDWAY STANDARD DETAILS. IN THE ABSENCE OF LOCAL DETAILS & REQUIREMENTS AND WORK IN THE STATE RIGHT-OF-WAY SHALL COMPLY WITH THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

(2021 EDITION) AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS (DATED SEPTEMBER 30, 2021).

- 11. FOR AREAS OUTSIDE THE PROPERTY LINES, REPAIR AND/OR REPLACE ALL DAMAGE DONE TO EXISTING ELEMENTS (SIDEWALKS, PAVING, LANDSCAPING, ETC) AS REQUIRED BY OWNER AND/OR
- 12. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD AND MASSACHUSETTS DEPARTMENT OF TRANSPORTATION REGULATIONS.
- PLANS, AS-BUILT SKETCHES, EXISTING UTILITY COMPANY RECORDS, AND OTHER SOURCES OF INFORMATION AND IS NOT TO BE CONSTRUED AS AN ACCURATE "AS-BUILT" SURVEY AND IS SUBJECT TO SUCH CORRECTIONS THAT A MORE ACCURATE SURVEY MAY DISCLOSE.IN ADDITION. OTHER UTILITIES NOT SHOWN HEREON MAY BE PRESENT. ANY DISCREPANCIES DISCOVERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY REPORTED TO THE PROJECT ENGINEER.
- 14. ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS/DETAILS OF THE UTILITY COMPANY HAVING AUTHORITY OVER THE PROPOSED WORK. ALL PROPOSED UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES/REQUIREMENTS GOVERNING THE PROPOSED WORK.
- 15. ALL PROPOSED UTILITIES WILL BE LOCATED UNDERGROUND UNLESS OTHERWISE NOTED.
- 16. RESET ALL EXISTING SANITARY AND DRAINAGE STRUCTURES TO MASSACHUSETTS STATE STANDARDS AND AS REQUIRED BY REPAIRING, MILLING OR OVERLAYING.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAVEMENT REPAIRS REQUIRED AS A RESULT OF ANY UTILITY WORK.
- 18. CONCRETE JOINTS ON SITE ARE TO BE FILLED WITH HOT-APPLIED JOINT FILLER, TO INCLUDE CONCRETE PAVEMENTS, MONOLITHIC CURBING AND MONOLITHIC SIDEWALKS.
- WALL AT FINISHED GROUND LEVEL AND THE TOP OF THE FACE OF THE WALL RESPECTIVELY. 20. ALL ON-SITE CONCRETE TO BE 4,500 PSI WITH 5% TO 7% AIR ENTRAPMENT UNLESS OTHERWISE

DEMOLITION NOTES

- DEMOLITION CONTRACTOR SHALL COORDINATE ALL DEMOLITION SEQUENCING WITH THE GENERAL CONTRACTOR FOR TEMPORARY CONDITIONS AND PHASING.
- 2. THE CONTRACTOR IS TO REFER TO THE REMAINING CONSTRUCTION DRAWING SET FOR REMOVAL LIMIT COORDINATION WITH OTHER DESIGN ELEMENTS.
- 3. THE CONTRACTOR IS TO REMOVE AND DISPOSE OR RECYCLE ALL SITE FEATURES WITHIN THE LIMITS OF CLEARING, UNLESS OTHERWISE DIRECTED IN THE PLANS, SPECIFICATIONS AND THE
- 4. THE CONTRACTOR SHALL NOTIFY AND OBTAIN ALL SHUTOFFS FOR ALL APPLICABLE UTILITIES PRIOR TO THE COMMENCEMENT OF DEMOLITION.
- THE CONTRACTOR SHALL LOCATE/CONFIRM ALL DRAINAGE INFRASTRUCTURE AND MAINTAIN ADEQUATE STORM DRAINAGE THROUGHOUT CONSTRUCTION.
- 6. THE CONTRACTOR SHALL COORDINATE ANY PARTIAL DEMOLITION OF DRAINAGE OR UTILITY INFRASTRUCTURE WITH THE FINAL CONDITION. SEE CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL FIELD LOCATE AND PROPERLY DISCONNECT APPROPRIATE LATERALS TO LIVE MAINS PRIOR TO DEMOLITION AND IN ACCORDANCE WITH UTILITY COMPANY
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY DEMOLITION ASSOCIATED PERMITS.
- 9. THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL STRUCTURES WITHIN THE PROJECT LIMITS UNLESS INDICATED TO REMAIN.
- 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL TEMPORARY FACILITIES AND SERVICES NECESSARY TO SATISFY FEDERAL, STATE & LOCAL REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO BRACING, SHORING, PAVEMENT REPAIR, FENCING, PEDESTRIAN AND
- 11. THE CONTRACTOR SHALL REFER TO THE SOIL EROSION & SEDIMENT CONTROL PLANS PROVIDED
- 12. ALL SIGNS WITHIN LIMIT OF CLEARING TO BE REMOVED UNLESS OTHERWISE NOTED.
- 13. EXISTING FOUNDATIONS/BUILDING SLABS TO BE LEFT IN PLACE IF DEEPER THAN 3 VERTICAL FEET BELOW PROPOSED BUILDING SLAB, FOOTINGS, HARDSCAPE FEATURES, OR UTILITIES. ANY SLABS LEFT IN PLACE SHALL BE BROKEN UP TO THE SATISFACTION OF THE GEOTECHNICAL
- 14. BASEMENTS AND BELOW GRADE STRUCTURES EXIST IN VARIOUS LOCATIONS ON SITE, INCLUDING BELOW EXISTING SLABS AND PAVED AREAS.
- 15. IF GROUNDWATER IS ENCOUNTERED ACROSS THE EXISTING SITE. DEWATERING OF EXCAVATIONS MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY

GRADING & DRAINAGE NOTES

- ALL PROPOSED STORM DRAINAGE PIPING TO UTILIZE WATER-TIGHT JOINTS.
- CLEANOUTS SHALL BE PROVIDED FLUSH TO GRADE AT ALL LOCATIONS OF ROOF DRAIN INTERSECTIONS, BENDS AND UPSTREAM ENDS.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZES OF THE DRAINAGE STRUCTURES (CATCH BASINS, MANHOLES, YARD DRAINS, ETC.) TO ACCOMMODATE THE PIPING
- STORM DRAINAGE PIPING INSTALLATION SHALL COMMENCE AT THE FURTHEST DOWNSTREAM POINT AND PROCEED UPSTREAM "IN THE DRY".
- THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE ENTIRE DRAINAGE SYSTEM OF ALL DEBRIS AND OBSTRUCTIONS BOTH DURING CONSTRUCTION AND AT THE END OF CONSTRUCTION PRIOR TO ACCEPTANCE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF ALL FORMWORK FROM STRUCTURES, CONCRETE AND MORTAR DROPPINGS, CONSTRUCTION DEBRIS, AND DIRT THE SYSTEM SHALL BE THOROUGHLY FLUSHED CLEAN AND THE CONTRACTOR SHALL FURNISH ALL NECESSARY HOSE, PUMPS, PIPE, AND OTHER EQUIPMENT THAT MAY BE REQUIRED FOR THIS PURPOSE. NO DEBRIS SHALL BE FLUSHED INTO EXISTING STORM DRAINS, WETLANDS, OR WATERCOURSES; ALL DEBRIS SHALL BE REMOVED FROM THE SYSTEM AND DISPOSED OF IN ACCORDANCE WITH ALL GOVERNING AGENCIES.
- ALL MANHOLE COVERS, GRATES, INLETS, AND RIMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
- CONTRACTOR TO PROVIDE ALL FITTINGS AND BENDS NECESSARY TO ACCOMPLISH WORK.
- REFER TO THE "STORMWATER OPERATION AND MAINTENANCE PLAN MEDWAY BATTERY ENERGY STORAGE SYSTEM" FOR OPERATION OF THE STORMWATER MANAGEMENT SYSTEM.

UTILITY NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE FIRE SERVICE LINE CONNECTIONS TO
- TEST PITS ARE TO BE PERFORMED PRIOR TO INSTALLATION OF FIRE SERVICE LINE CONNECTIONS TO CONFIRM THE SIZE AND MATERIAL OF THE MAIN.
- TAPPING SLEEVES AND GATE VALVE ASSEMBLIES SHALL BE INSTALLED AT EACH FIRE SERVICE LINE CONNECTION AND SHALL BE MANUFACTURED BY CLOW VALVE CO., MUELLER CO., OR AMERICAN VALVE AND
- SCHEDULING OF ALL FIRE SERVICE LINE CONNECTION WORK SHALL BE COORDINATED WITH THE TOWN OF
- MEDWAY TO ALLOW FOR A REPRESENTATIVE FROM THE AGENCY TO BE ONSITE TO OVERSEE THE CONNECTIONS AND PERFORM A WATER SHUTDOWN AS NEEDED. THE DEPARTMENT SHALL APPROVE ALL MATERIALS USED IN MAKING A SERVICE CONNECTION AND SHALL
- INSPECT ALL WORK UPON COMPLETION AND PRIOR TO BACKFILL OF TRENCH. ALL PIPE FITTINGS, AND APPURTENANCES SHALL MEET AWWA AND DEPARTMENT STANDARDS. ALL MAINS SHALL BE AT LEAST EIGHT (8) INCHES IN DIAMETER AT A DEPTH OF FIVE (5) FEET AND SHALL

LEAST 5-1/4 INCHES AND LENGTHS SHALL BE AS NECESSARY TO SUIT GROUND ELEVATION.

VALVE BOXES SHALL BE MANUFACTURED IN THE UNITED STATES AND BE CAST IRON, TAR COATED, SLIDING, HEAVY PATTERN TYPE, CONSISTING OF THREE (3) PIECES: A FLANGED BOTTOM PIECE, A FLANGED TOP PIECE, AND A COVER WITH TOW (2) LIFTING HOLES AND THE WORD "WATER" CAST ON THE TOP. A MINIMUM 6 INCH OVERLAP IS REQUIRED BETWEEN SLIDING SECTIONS. THE INSIDE DIAMETER OF BOXES SHALL BE AT

BE CEMENT LINED DUCTILE IRON THICKNESS CLASS 52. ALL MAINS OR SERVICES SHALL BE INSTALLED NO

CLOSER THAN THREE (3) FEET VERTICALLY OR TEN (10) FEET HORIZONTALLY FROM SEWER LINE OR ENCASED

WATER SHUT-OFF BOX AND CURB STOP BOX SHALL BE ERIE STYLE.

IN CONCRETE OR SLEEVÉ SEGMENTS NOT MEETING THESE CRITERIA.

- ALL HYDRANTS SHALL BE STANDARDIZED TYPE AND SPECIFICATIONS OF OF THE MEDWAY WATER DIVISION. HYDRANTS SHALL BE LOCATED AT PROPERTY LINES WHEN POSSIBLE AND SHALL NOT BE SPACED MORE THAN FIVE HUNDRED (500) FEET APART. THERE SHALL ALSO BE A GATE VALVE FOR EVERY HYDRANT. ALL HYDRANTS SHALL BE BACKED WITH 0.25 CUBIC YARDS OF CONCRETE OR APPROVED THRUST BLOCK AGAINST TRENCH WALL. HYDRANTS SHALL ALSO BE SURROUNDED WITH 1 CUBIC YARD OF 3/4-INCH STONE FOR DRAINAGE. SEE CONSTRUCTION DETAIL.
- . ALL FIRE HYDRANTS SHALL RECEIVE AN ISOLATION VALVE ALONG THE HYDRANT LATERAL AND A MINIMUM OF TWO PROTECTIVE BOLLARDS.
- HYDRANTS AMERICAN, DARLING MODEL B-84B, OPEN LEFT. FACTORY PAINTED IN TOWN OF MEDWAY STANDARD COLOR WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD THREADS AND TWO 2-1/2 INCH NOZZLES AND ONE 4-1/2 INCH NOZZLE.
- 2. THE DEVELOPER SHALL PROVIDE AS-BUILT RECORD DRAWINGS OF ALL NEW AND EXISTING WATER INFRASTRUCTURE TO THE TOWN OF MEDWAY AT THE COMPLETION OF CONSTRUCTION.
- . WATER MAINS SHALL BE PRESSURE AND LEAK TESTED AS PER AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS AT 50 PSI OVER STATIC PRESSURE OR 150 PSI, WHICHEVER IS GREATER, FOR A PERIOD OF TWO (2) HOURS.
- H. THE DEVELOPER SHALL SUBMIT AN AS—BUILT PLAN, GATE TIE CARDS, AND WATER SERVICE CARDS, PREPARED BY A REGISTERED CIVIL ENGINEER IN THE STATE OF MASSACHUSETTS TO THE MEDWAY ENGINEERING DIVISION AT THE CONCLUSION OF THE PROJECT.
- 5. ALL NEW CONSTRUCTION OR ALL CEMENT LINED DUCTILE IRON JOINTS AT FITTINGS (CLASS 52), VALVES AND HYDRANT LATERALS SHALL BE MECHANICAL WITH NEOPRENE GASKETS. JOINTS AT OTHER LOCATIONS SHALL BE PUSH-ON TYPE WITH NEOPRENE OR SYNTHETIC RUBBER GASKETS. ALL WATER GATES SHALL OPEN PER MUNICIPAL REQUIREMENTS. ALL WATER LINES SHALL HAVE A MINIMUM OF 5' OF GROUND COVER AND A MINIMUM HORIZONTAL SEPARATION OF 10' FROM THE SEWER SYSTEM. AT WATER AND SEWER CROSSINGS, THE SEWER LINE SHALL BE ENCASED IN 6" OF CONCRETE FOR A DISTANCE OF 10' ON EITHER SIDE OF THE CROSSING IF A MINIMUM VERTICAL SEPARATION OF 18" IS NOT MAINTAINED.
- 6. ENSURE ALL EXISTING (TO REMAIN) AND PROPOSED MANHOLES PROPERLY IDENTIFY UTILITIES SERVICED.
- . WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE CONTRACTOR SHALL ACCURATELY DETERMINE THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY AND TRANSMIT THIS INFORMATION TO THE ENGINEER WITHOUT DELAY.
- THE LOCATIONS OF EXISTING ELECTRICAL LINES AND GAS MAINS ARE APPROXIMATE. THE CONTRACTOR MUST CONSULT THE LOCAL UTILITY COMPANIES FOR ADDITIONAL INFORMATION. ALL PROPOSED GAS AND ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH LOCAL COUNTY, STATE AND FEDERAL GUIDELINES AND

LEGEND PROPERTY LINE LEASE AREA SETBACK LINE WETLAND LIMITS 25' WETLAND NO DISTURB ZONE 100' WETLAND BUFFER ZONE 100' RIVERFRONT AREA LIMITS 200' RIVERFRONT AREA LIMITS LIMIT OF RIVER WETLAND BUFFER IMPACTS EXISTING IMPERVIOUS AREA TO BE REMOVED LOCAL WETLAND REGULATION (SECTION 23) VEGETATION REPLACEMENT AREA BUILDING LINE PEDESTRIAN DOOR LOCATION BOLLARD CONCRETE ASPHALT GRAVEL STORMWATER MANAGEMENT FEATURE WATER LINE FIRE SERVICE LOOP ----- UFW*------ UFW*------OVERHEAD ELECTRIC UNDERGROUND ELECTRIC —UE— STORM PIPE STORM CURBLESS CATCH BASIN STORM MANHOLE CONTOUR ×135.19 SPOT ELEVATION CHAIN LINK FENCE RETAINING WALL SOUND WALL LIMIT OF WORK ____LOW___LOW__ SILT FENCE & SILT SOCK •••••• SILT FENCE _____ INLET PROTECTION SEDIMENT BASIN/TRAP ------STABILIZED DIVERSION CHANNEL WITH STONE CHECK DAMS GUARDRAIL TREELINE PARKING ROW COUNT MANHOLES $\bigcirc (D)E(F)FMG(S)ST(C)U(W)$ STORM FLARED END SECTION

NOI COMMENT REVISIONS NOI COMMENT REVISIONS Date Description Revisions HOLMES

D.P.U. 22-18 D.P.U. 22-19

MG-2 Attachment 1

ABBREVIATIONS

BOTTOM OF CURF

BOTTOM OF WALL

CONCRETE CURB

CONCRETE PAD

CANOPY DRAIN

DUCTILE IRON PIPE

DETECTABLE WARNING

DOUBLE YELLOW LINE

EDGE OF PAVEMENT

FLARED END SECTION

LANDSCAPED AREA

LINEAR FEET

NOT TO SCALE

RIGHT OF WAY

STORM DRAIN

TOP OF CURB

TRENCH DRAIN

TOP OF FRAME

TOP OF WALL

YARD DRAIN

REMOVE & DISPOSE

REMOVE & REPLACE

WATER QUALITY UNIT

MANHOLE

PROPOSED

RETAINING

R.O.W

HIGH DENSITY POLYETHYLENE PIPE

OUTLET CONTROL STRUCTURE

REINFORCED CONCRETE PIPE

POLYVINYL CHLORIDE PIPE

RITUMINOUS

CIFAN OUT CONCRETE

ELEVATION

GRADE

CATCHBASIN

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Environmental Services, Inc.

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MEDWAY BATTERY ENERGY STORAGE

MASSACHUSETT

NORFOLK COUNTY

MASTER LEGEND **AND NOTES**

Drawing No. 151033401 06/08/2023 Drawn Bv Checked By

SOIL EROSION-SEDIMENT CONTROL NOTES

PROPOSED DEVELOPMENT

- 1. CONSTRUCTION WILL INCLUDE EARTHWORK, CURBING, PAVING, UTILITY INSTALLATION, LANDSCAPING AND BUILDING CONSTRUCTION. ALL DEMOLITION DEBRIS AND SOIL REMOVAL RELATED TO CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAWS GOVERNING
- 2. THE DETAILED EROSION AND SEDIMENT CONTROL MEASURES ARE SHOWN ON DRAWINGS CE101 AND CE102. THE PROPOSED MEASURES HAVE BEEN DESIGNED TO LIMIT THE MIGRATION OF SOIL SEDIMENT FROM THE SITE. HOWEVER, THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROLS AND SHALL SUPPLEMENT AND ADJUST THE PLAN AS NEEDED TO PREVENT SOIL EROSION TO THE MAXIMUM EXTENT FEASIBLE. TEMPORARY SEDIMENT BASINS ARE NOT SHOWN ON THE PLANS AS THE EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD. THE CONTRACTOR SHALL CONSTRUCT AND IMPLEMENT TEMPORARY SEDIMENT BASINS THROUGHOUT THE SITE AS NEEDED TO CONTROL SITE RUNOFF AND PREVENT SEDIMENT MIGRATION.
- SOIL EROSION AND SEDIMENT CONTROL NOTES

LAW STANDARDS.

VEHICLE ACCESS, CONCRETE PADS, ETC.

BY LANGAN INCLUDED AS PART OF THIS PLAN SET.

- THE SOIL AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY, THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES AND THE MASSACHUSETTS STORMWATER STANDARDS.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION AND DISTURBANCE OF SITE CONTRIBUTORY DRAINAGE AREAS. THE OWNER OR ITS CONTRACTOR SHALL INSPECT. REPAIR AND REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES. AS INDICATED HEREIN. ALL EARTH CHANGES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST POSSIBLE PERIOD OF TIME. CLEARING SHALL BE PHASED TO THE EXTENT FEASIBLE TO LIMIT POTENTIAL FOR SOIL EROSION.
- DISPOSAL OF COLLECTED SEDIMENT SHALL BE MADE TO AREA DESIGNATED BY THE OWNER'S SOIL ENGINEER.
- 4. FILTER FABRIC/SILT FENCE WILL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES. EROSION CONTROL BLANKET BIONET SC150BN OR APPROVED EQUAL AND SEEDING AS SPECIFIED ON THE PLANTING PLAN MUST BE PROVIDED ON ALL SLOPES 4H:1V TO 3:1V. FOR SLOPES 2.5H:1V TO 3H:1V, SLOPES SHALL BE STABILIZED WITH A 12-INCH THICK LAYER OF MODIFIED ROCK FILL (MASSDOT M2.02.4) PLACED ON A 6-INCH THICK BEDDING LAYER OF 3/4-INCH CRUSHED STONE OVER MIRAFI FW700 WOVEN
- GEOTEXTILE. ALL SITE SLOPES SHALL BE LESS THAN 2.5H:1V. 6. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING/LANDSCAPED AREAS SHALL BE REMOVED FROM THE SITE IMMEDIATELY, IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL LAW. ALL TOPSOIL TO BE USED IN LANDSCAPED AREAS SHALL BE STORED/STOCKPILED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL

- 7. THE SITE SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
- 8. PAVEMENT BASE COURSE MUST BE PLACED IN ALL NEW ROADWAY AREAS UPON COMPLETION OF FINE 9. THE CONTRACTOR IS RESPONSIBLE FOR ALL PAVED ROADWAYS, ON AND OFF-SITE, WHICH MUST BE KEPT
- FREE OF SITE GENERATED SEDIMENT AT ALL TIMES. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHOD. 10. ALL STORM DRAINAGE OUTLETS MUST BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS
- BECOME OPERATIONAL
- 11. SILT FENCES AND BARRIERS MUST BE CLEANED OR REPLACED PERIODICALLY TO REMOVE BUILT-UP SILT. 12. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED EVERY 14 CALENDAR DAYS AND WITHIN 24 OF EITHER A STORM EVENT THAT PRODUCES 0.25 INCHES OR MORE OF RAIN WITHIN A 24 HOUR PERIOD. OR A STORM EVENT THAT PRODUCES 0.25 INCHES OR MORE OF RAIN WITHIN A 24-HOUR PERIOD ON THE FIRST DAY OF A STORM AND CONTINUES TO PRODUCE 0.25 INCHES OR MORE OF RAIN ON

SUBSEQUENT DAYS, OR A DISCHARGE CAUSED BY SNOWMELT FROM A STORM EVENT THAT PRODUCES 3.25

- 13. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR FROM DISTURBED AREAS SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.
- 14. THE CONTRACTOR SHALL CORRECT ANY OMISSIONS, ERRORS, OR FIELD OPERATIONS IMMEDIATELY AND IN ACCORDANCE WITH THE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- 15. THE PROPERTY OWNER AND/OR HIS/HER AGENTS MUST MAINTAIN (REPAIR/REPLACE), WHEN NECESSARY, THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

TEMPORARY STABILIZATION

- SEDIMENT DISPOSAL AREAS AND TOPSOIL STOCKPILES NOT SCHEDULED FOR CONSTRUCTION ACTIVITIES WITHIN FOURTEEN (14) DAYS OF DISTURBANCE SHALL BE STABILIZED AS FOLLOWS:
- A. SOIL AMENDMENTS AS NECESSARY.

INCHES OR MORE OF SNOW WITHIN A 24-HOUR PERIOD ..

- B. ANNUAL RYE GRASS SEEDING APPLIED AT A RATE OF NOT LESS THAN 1 LB. PER 1,000 SF.
- C. MULCH ALL NEWLY SEEDED AREAS WITHIN 80 LBS. OF SALT HAY OR SMALL GRAIN STRAW PER 1,000
- D. WHEN DISTURBED AREAS ARE SCHEDULED FOR IMMEDIATE LANDSCAPING THEY MAY BE MULCHED AND SEEDED PER ITEM C ABOVE.

PERMANENT STABILIZATION

DISTRICT FOR REVIEW.

- REFER TO PLANS FOR PERMANENT STABILIZATION METHODS + PROPOSED SEED MIXES.
- A. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL DISTURBED LAND AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. AMEND SOIL AS NEEDED PRIOR TO PERMANENT SEEDING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER COMPLETION OF AN EARTH CHANGE OR WHEN SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. ALL DISTURBED AREAS, STOCKPILES OF FILL OR EXCAVATED MATERIAL SHALL BE STABILIZED IN SUCH A MANNER AS NOT TO CAUSE UNREASONABLE HAZARD TO PERSONS OR PROPERTY.
- B. MATERIALS SPECIFICATION: LAWN + MEADOW AREAS
- (i) ANY SOIL HAVING A pH OF FOUR OR LESS CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE INCHES OF SOIL HAVING A pH OF FIVE OR MORE PRIOR TO SEED BED
- C. MULCHING SHALL BE DONE AT THE RATE OF SEVENTY TO NINETY POUNDS (70-90 LBS) PER 1,000 SQUARE FEET WITH UNROTTED SALT HAY.
- D. LIQUID MULCH BINDERS MUST BE USED TO ANCHOR SALT HAY, HAY OR STRAY MULCHES. (i) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CREATED BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.
- (ii) USE ONE OF THE FOLLOWING: SYNTHETIC OR ORGANIC BINDERS, BINDERS SUCH AS CURASOL DCA-70, PETRO SET, TERRA TACH, HYDRO MULCH AND AEROSPRAY MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER OF ANCHOR MULCH MATERIALS. BINDERS CONTAINING PETROLEUM PRODUCTS SHALL NOT BE USED.
- NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE TO THE EXCLUSION OF OTHER PRODUCTS.
- D. FILL MATERIAL SHALL BE FREE FROM DEBRIS, PERISHABLE OR COMBUSTIBLE MATERIAL AND FROZEN OR WET EARTH OR STONES LARGER THAN THREE INCHES IN MAXIMUM DIMENSION.
- E. CONSTRUCTION AREAS SHALL BE PERIODICALLY SPRAYED WITH WATER UNTIL THE SURFACE IS WET TO CONTROL THE GENERATION OF DUST. F. ALL REVISIONS AFTER APPROVAL HAS BEEN GRANTED SHALL BE FORWARDED TO THE APPROPRIATE
- EVENT OF SEVERE WEATHER AND INCREASED POTENTIAL FOR SEVERE EROSION. 2. THE GENERAL CONTRACTOR IS REQUIRED TO MAINTAIN ON SITE OR HAVE THE ABILITY TO RETRIEVE WITHIN 12 HOURS THE FOLLOWING MATERIALS IN THE EVENT THAT THERE ARE DEFICIENCIES IN THE SESC
- A. 25% OF THE INSTALLED LENGTH OF SILT FENCE

CONTINGENCY SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

OTHER UNSUITABLE MATERIAL.

CLEANOUT

FIRE HYDRANT

GATE VALVE

TRANSFORMER

POWER POLE

GUY WIRE

LIGHT POLE GAS LINE

TEMPORARY STOCKPILE AREA

THE START OF ANY CONSTRUCTION.

(ii) TOPSOIL SHALL BE TESTED PRIOR TO SEEDING.

MUST BE RETILLED AND FIRMED AS ABOVE.

SNOW STORAGE AREA

H. SEEDBED PREPARATION:

B. EQUIVALENT TONNAGE OF STONE FOR STABILIZATION OF 2 STABILIZATION ENTRANCES. STONE COULD BE USED FOR SLOPE REPAIRS, ENERGY DISSIPATER ENHANCEMENTS, ETC.

G. THE LOCAL GOVERNING AUTHORITY SHALL RECEIVE WRITTEN NOTIFICATION SEVENTY TWO HOURS BEFORE

(i) TOPSOIL SHOULD BE A MINIMUM OF SIX INCHES DEEP (LIGHTLY COMPACTED) BEFORE SEEDING.

(iii) WORK SOIL AMENDMENTS INTO SOIL AS NECESSARY AS NEARLY AS PRACTICAL TO A DEPTH OF

FOUR INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL

OR SILTY SOIL AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEED BED WHEREVER

(iv) REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION. REMOVE ALL

(v) INSPECT SEED BED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACT, THE AREA

1. THE GENERAL CONTRACTOR WILL DESIGNATE PERSONNEL FOR 24 HOUR EMERGENCY RESPONSE IN THE

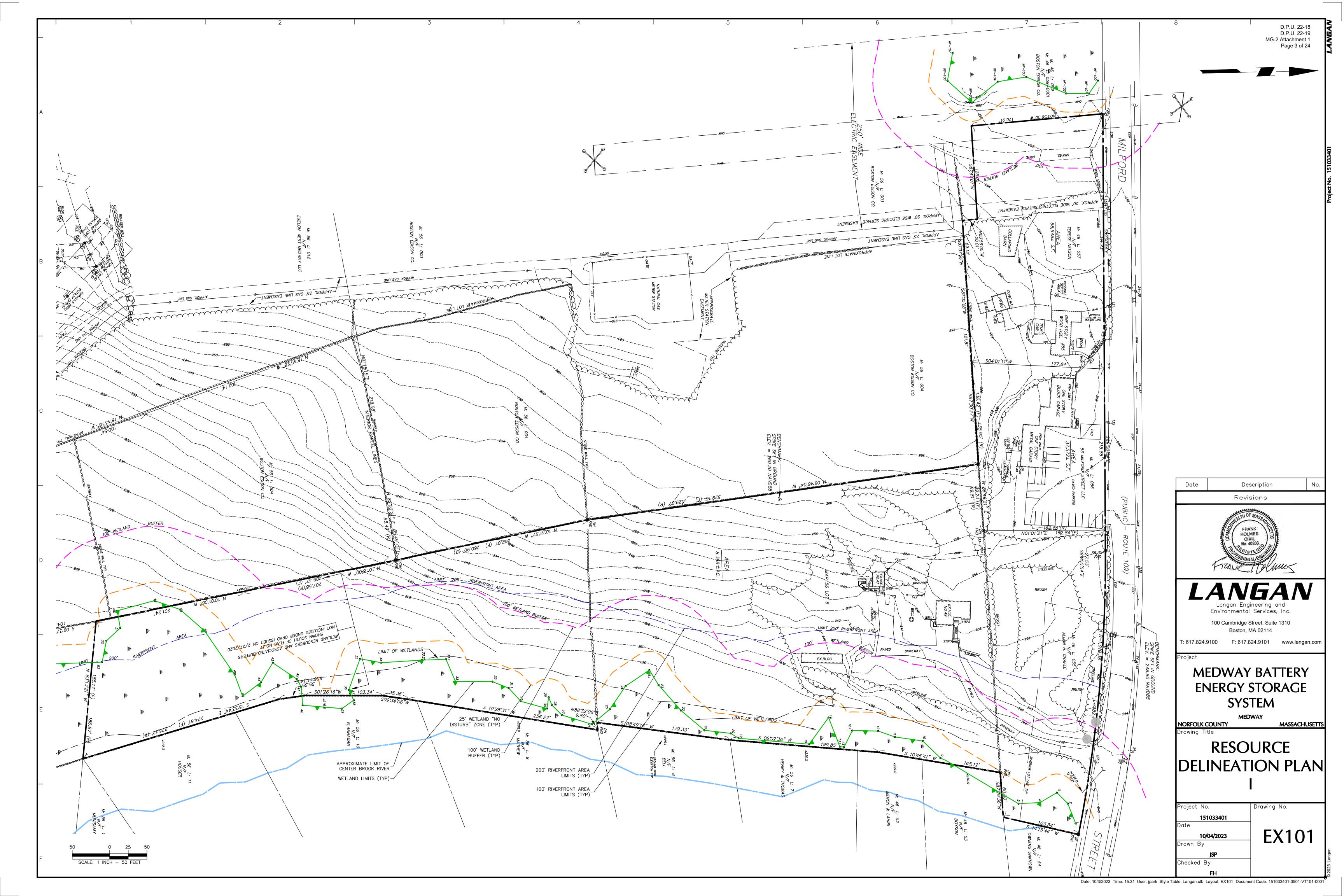
OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR

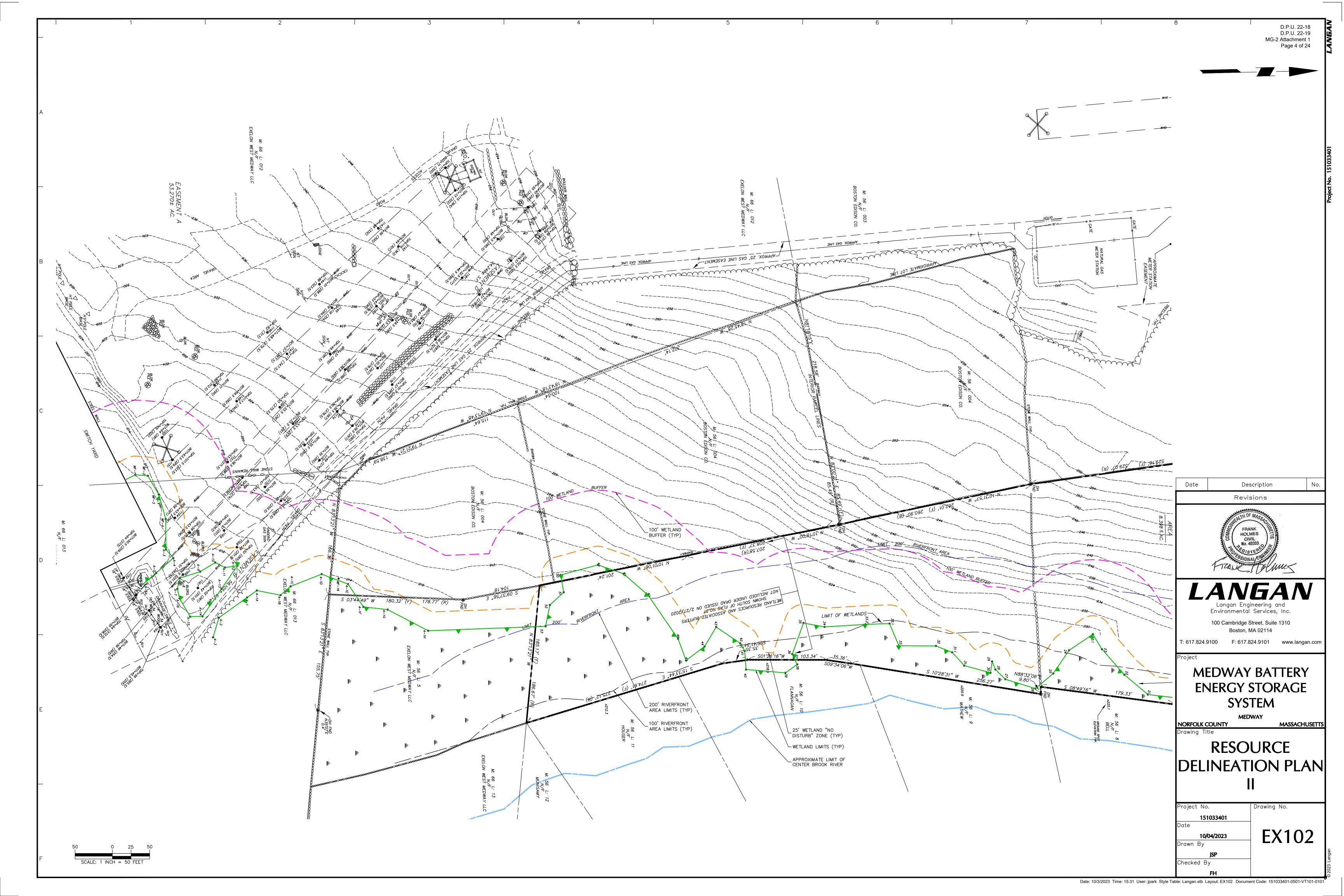
HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE ALL CLAY

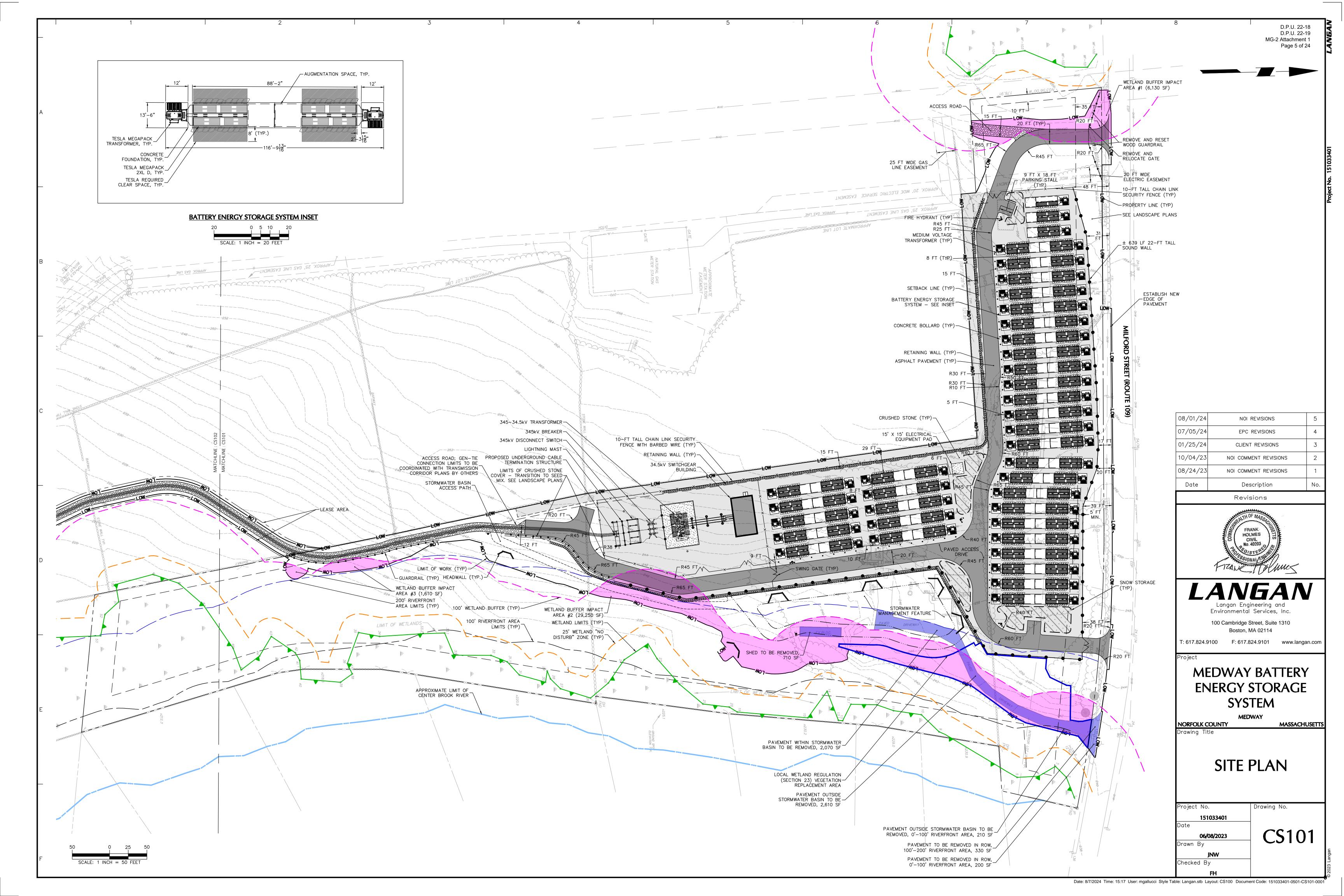
C. HEAVY EQUIPMENT CAPABLE OF TRENCHING/EXCAVATING LARGE AREAS TO DIVERT AND CONTROL RUNOFF IN A CONTROLLED MANNER.

D. HAVE DESIGNATED A HYDRO-SEED CONTRACTOR CAPABLE OF RESPONDING TO THE SITE WITHIN 12

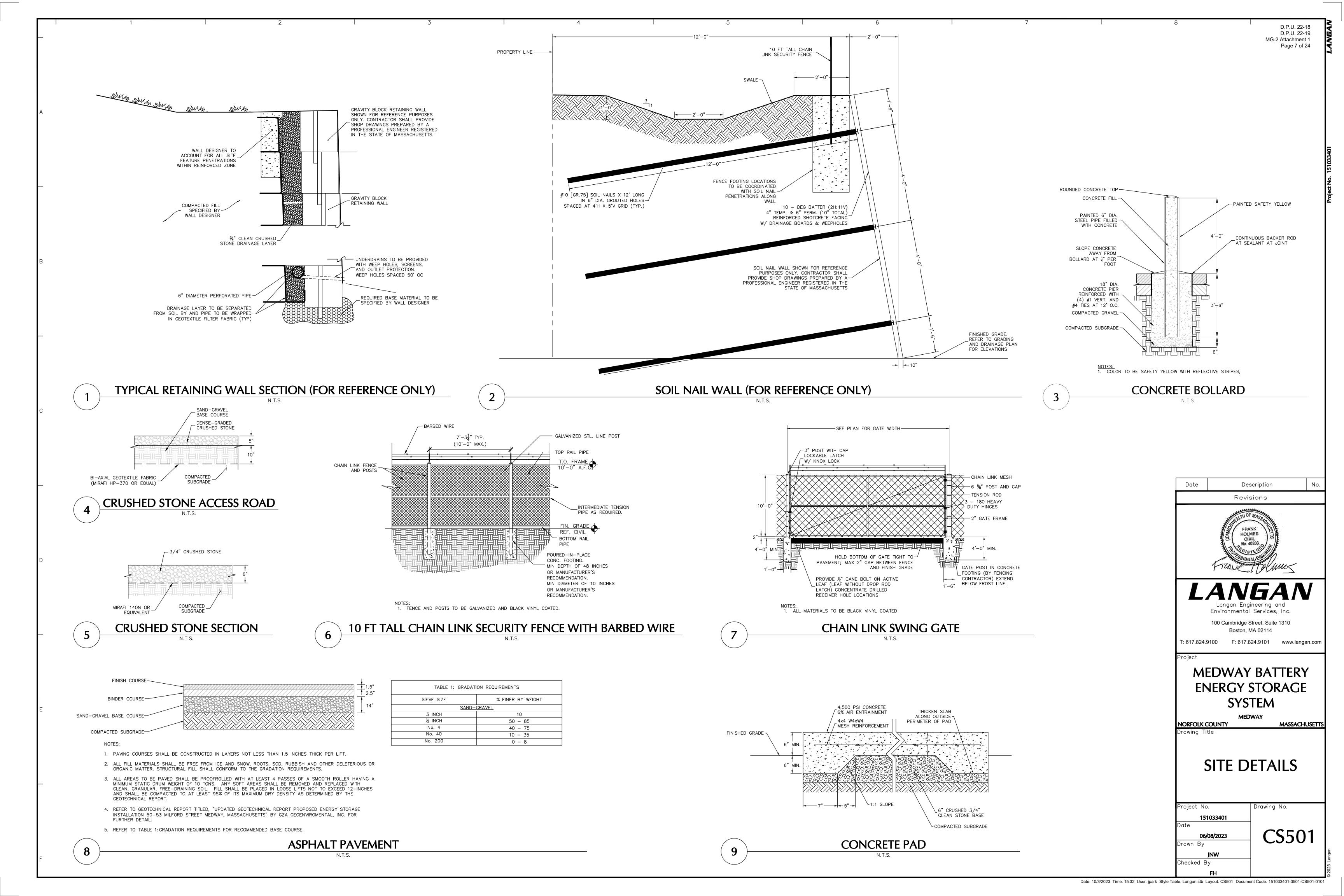
3. ANY STUMP GRINDINGS OR WOOD CHIPS GENERATED ON-SITE SHOULD BE RETAINED FOR USE TO BACK UP SILT FENCES.

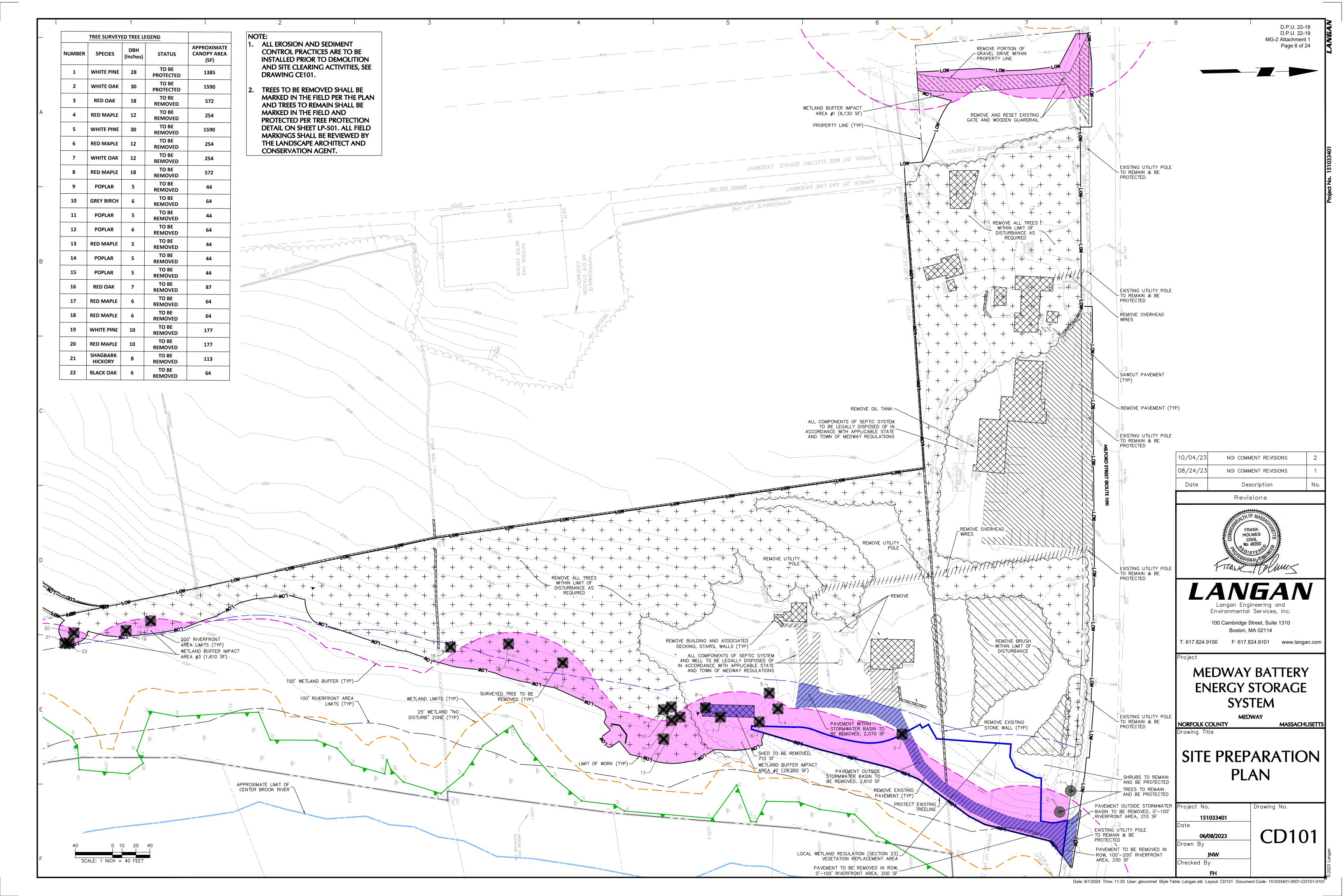


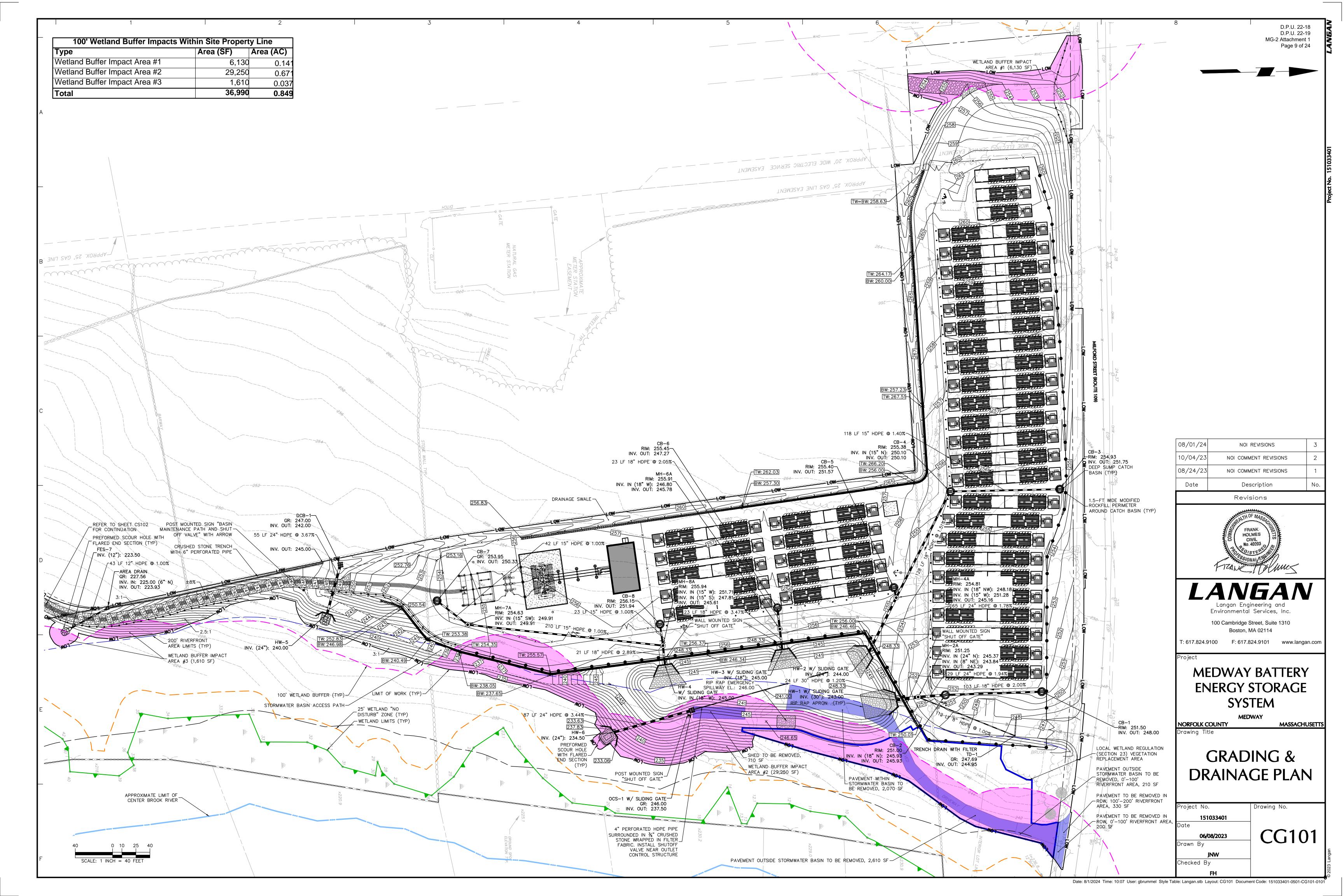


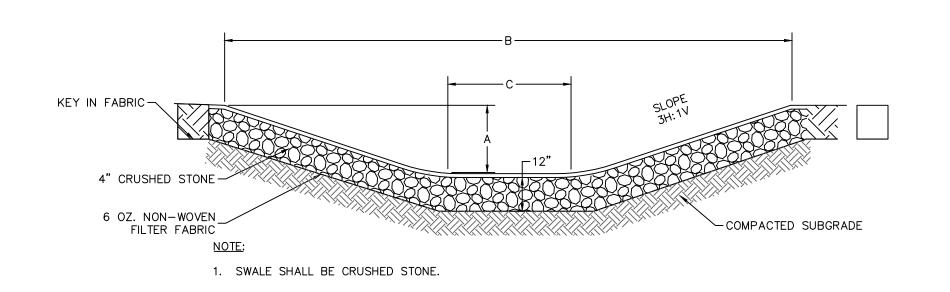




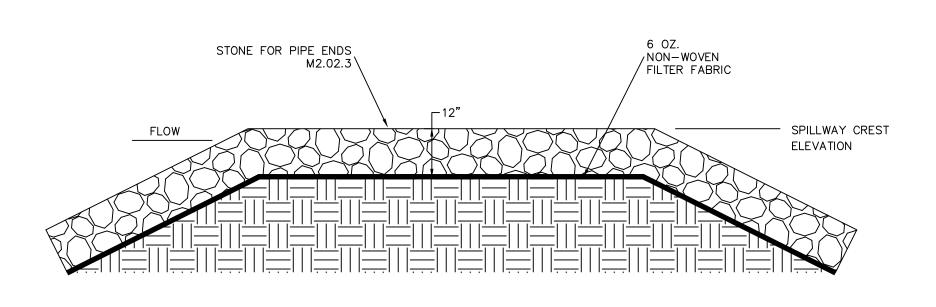




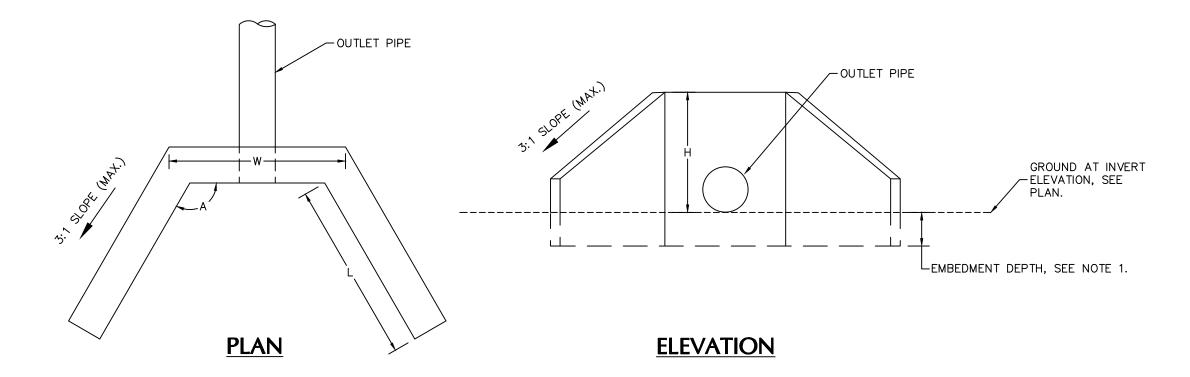




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	SWALE DESIGN SCHEDULE							
	SWALE LOCATION	LENGTH (FT)	A MIN. DEPTH (FT)	B MIN. TOP WIDTH (FT)	C BOTTOM WIDTH (FT)			
	WESTERN PROPERTY LINE	PER PLAN	1.0	8.0	2.0			



	F	RIP-RAP SPILLWAY SCHEI	DULE		
LOCATION	SPILLWAY CREST ELEVATION (FT)	SPILLWAY CREST ELEVATION WIDTH (FT)	SPILLWAY TOP WIDTH (FT)	SPILLWAY SIDE SLOPES	SPILLWAY LENGTH (FT)
INFILTRATION BASIN	246	20	23	3:1	36



CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR HEADWALL STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE COMMONWEALTH OF

MASSACHUSETTS FOR THE HEADWALLS INDICATING CONCRETE THICKNESS, REINFORCEMENT, AND EMBEDMENT DEPTH. 2. ALL HEADWALLS SHALL HAVE A GUARDRAIL AT THE TOP OF THE WALL. THE GUARDRAIL SHALL BE 42" IN HEIGHT WITH A MIDRAIL INSTALLED AT A HEIGHT MIDWAY BETWEEN THE TOP EDGE OF THE GUARD RAIL AND HEADWALL SURFACE. GUARDRAIL POST AND MIDRAIL TO BE 1-1/2" GALVANIZED STEEL PIPE. POST SPACING TO BE EQUIDISTANT AND NO MORE THAN 5 FEET.

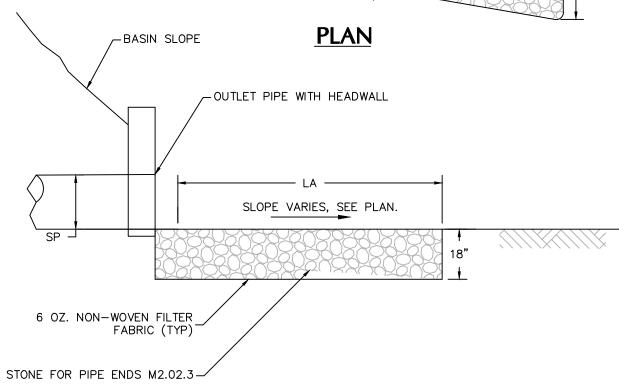
STRUCTURE	W [FT]	L [FT]	Н	A [DEG]
HW-1	16.0	13.5	6'-4"	120
HW-2	15.5	13.5	5'-4"	120
HW-3	15.0	13.5	4'-4"	120
HW-4	15.0	13.5	4'-4"	120
HW-5	11.0	8.0	4'-2"	135
HW-6	13.33	9.0	5'-4"	135

SWALE N.T.S.

RIP RAP EMERGENCY SPILLWAY

HEADWALL

OUTLET PIPE WITH HEADWALL -<u>PLAN</u> -BASIN SLOPE



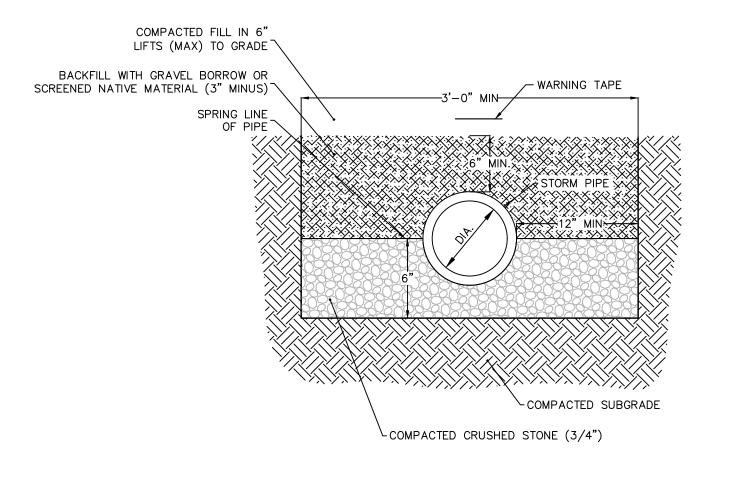
SECTION A-A

NOTES:

1. SEE GRADING AND DRAINAGE PLAN FOR SIZES/DIMENSIONS

STRUCTURE	LA [FT]	W1 [FT]	W2 [FT]	SP [FT]
HW-1	36	14.5	27	2.5
HW-2	21	14	31	2
HW-3	20	13.5	37	1.5
HW-4	23	13.5	40	1.5

RIPRAP APRON

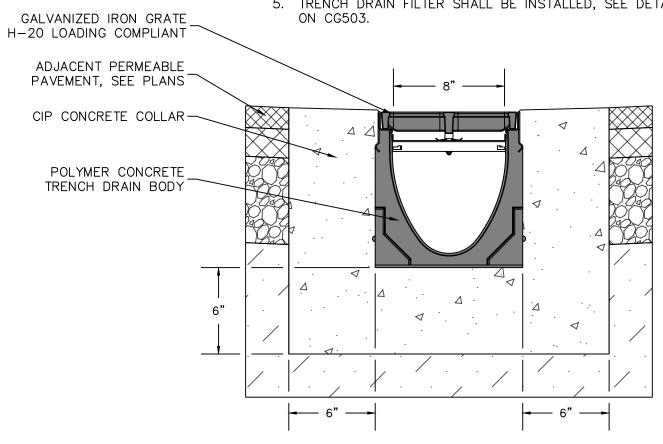


STORM PIPE BEDDING

NOTES:

1. MINIMUM CONCRETE STRENGTH OF 4,000 PSI. VIBRATE TO ELIMINATE AIR POCKETS.

- 2. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
- 3. INSTALL PER MANUFACTURER INSTRUCTIONS.
- 4. MINIMUM TRENCH DRAIN DEPTH SHALL BE 6.5" FROM THE BOTTOM OF THE GRATE.
- 5. TRENCH DRAIN FILTER SHALL BE INSTALLED, SEE DETAIL 8 ON CG503.



TRENCH DRAIN

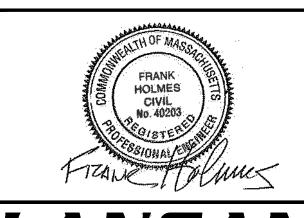
BANK SLOPE OUTLET PIPE WITH HDPE FLARED END SECTION OR HEADWALL, SE OUTLET PIPE WITH HDPE FLARED END SECTION OR — HEADWALL, SEE PLAN. 3:1 SLOPE MAX (TYP) <u>PLAN</u> -STONE FOR PIPE ENDS M2.02.3 6 OZ. NON-WOVEN—/ FILTER FABRIC SECTION A - A

NOTE: 1. SIDE SLOPES SHALL BE 3:1 OR FLATTER.

		_					
STRUCTURE	E [FT]	2E [FT]	3E [FT]	DEPTH [FT]	B [FT]	C [FT]	D [FT]
HW-5	2	4	6	1	10	12	1
HW-6	2.5	5	7.5	1.25	12.5	15	1
FES-7	1.5	3	4.5	0.75	7.5	9	1

PREFORMED SCOUR HOLE

08/01/24	NOI REVISIONS	2			
08/24/23	NOI COMMENT REVISIONS	1			
Date	Description	No.			
Revisions					



Environmental Services, Inc.

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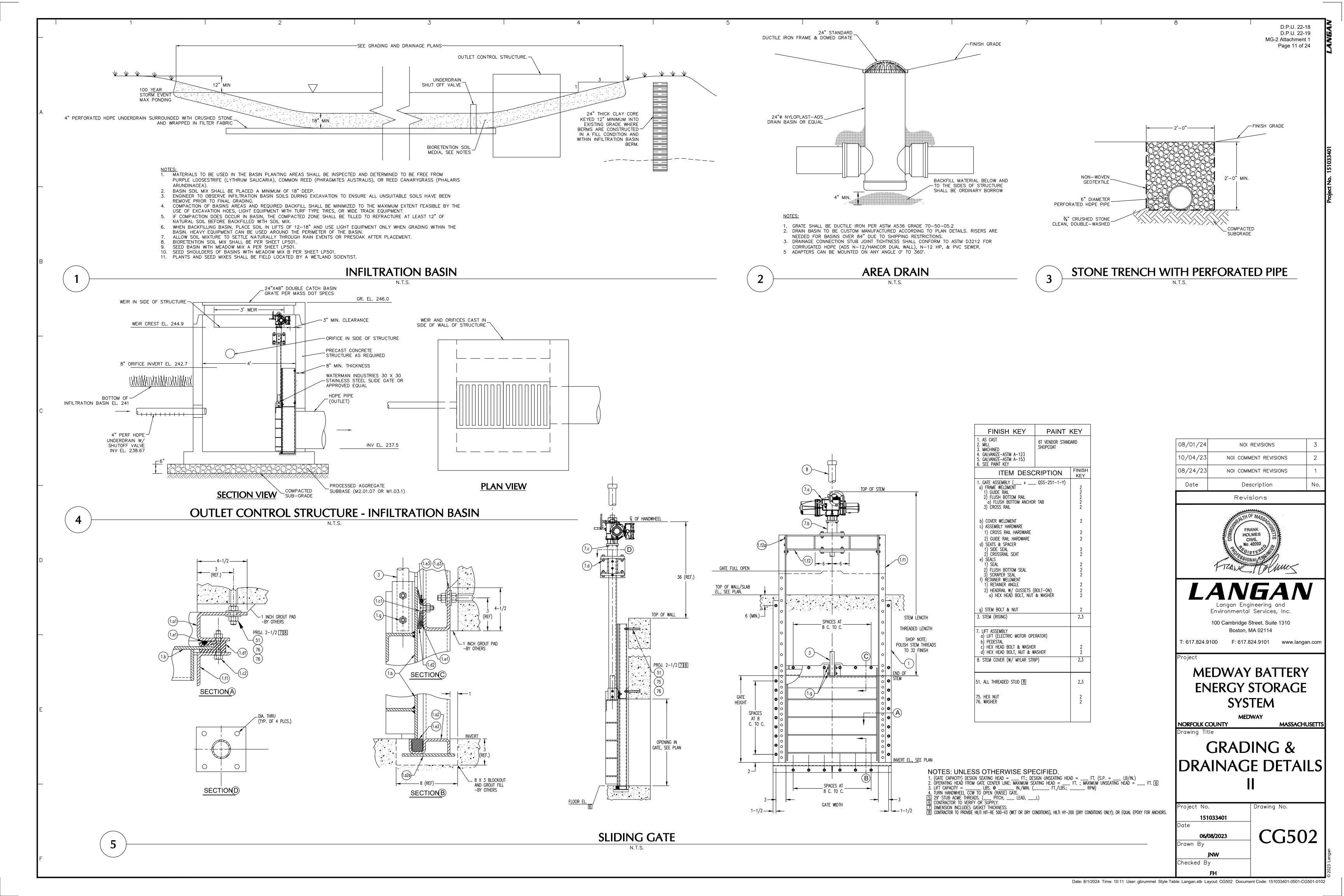
MEDWAY BATTERY ENERGY STORAGE SYSTEM

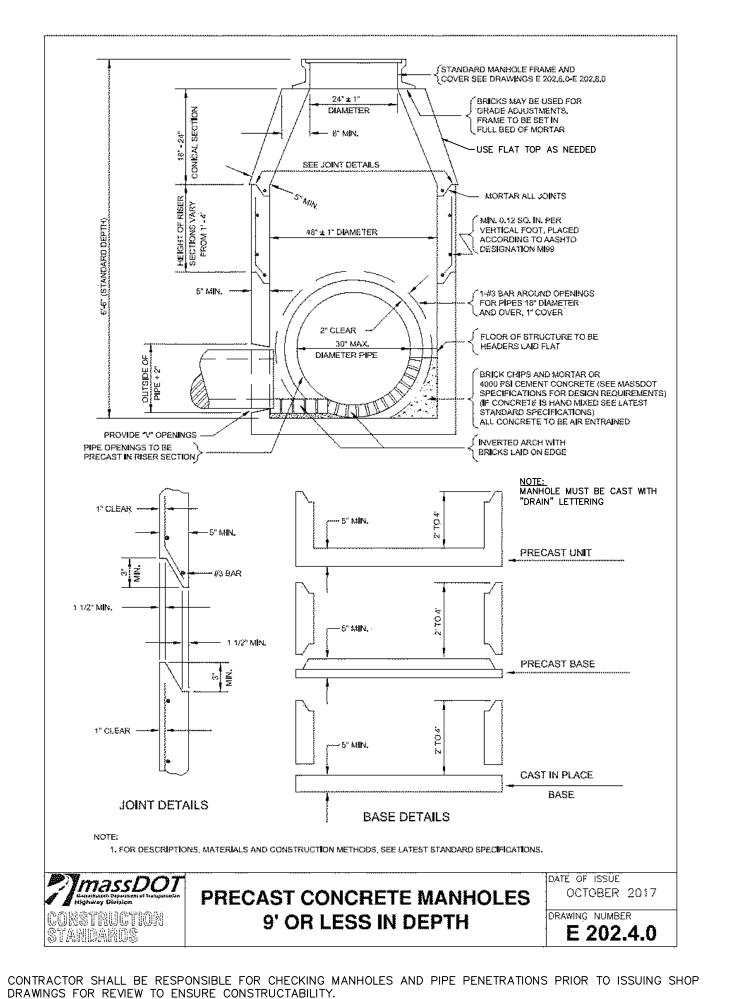
NORFOLK COUNTY Drawing Title

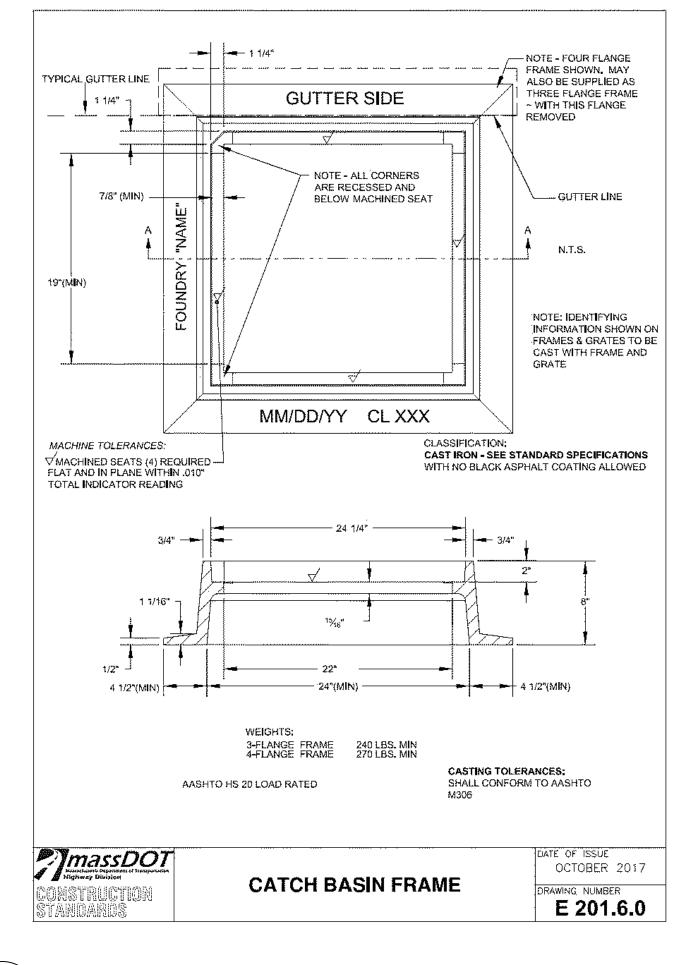
GRADING & DRAINAGE DETAILS

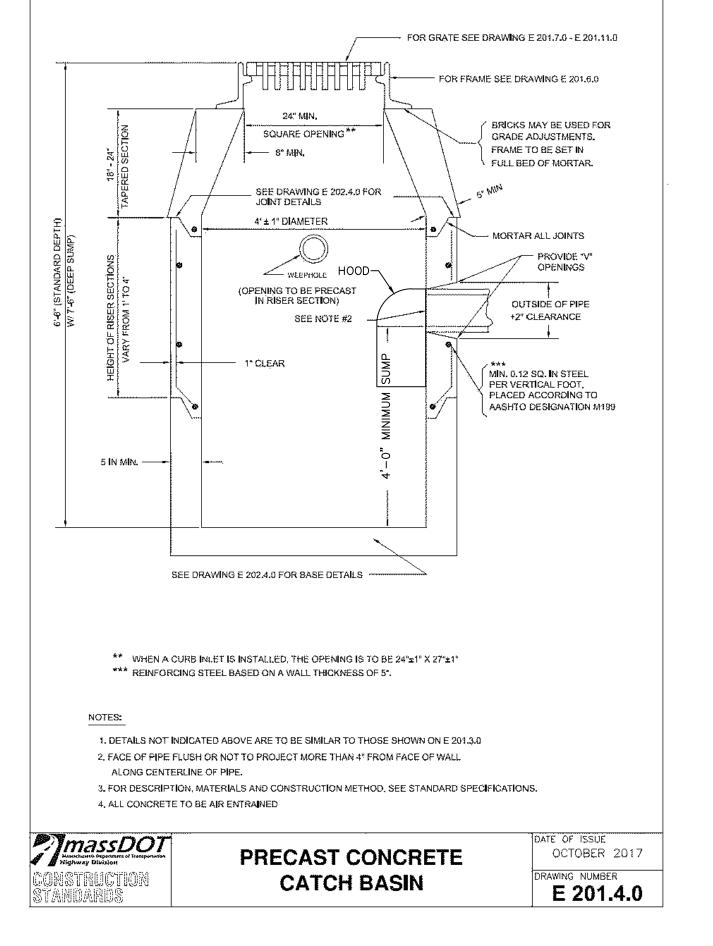
MASSACHUSETTS

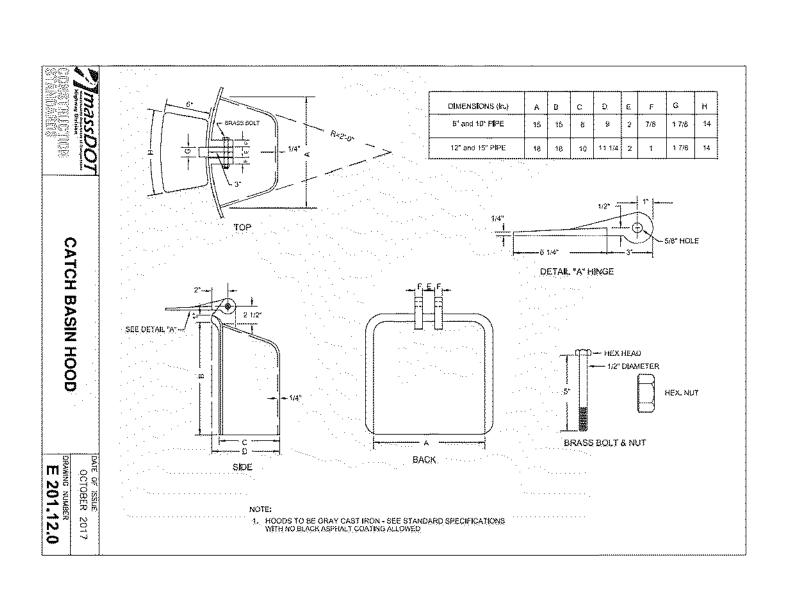
Project No. Drawing No. 151033401 CG501 06/08/2023 Drawn By Checked By









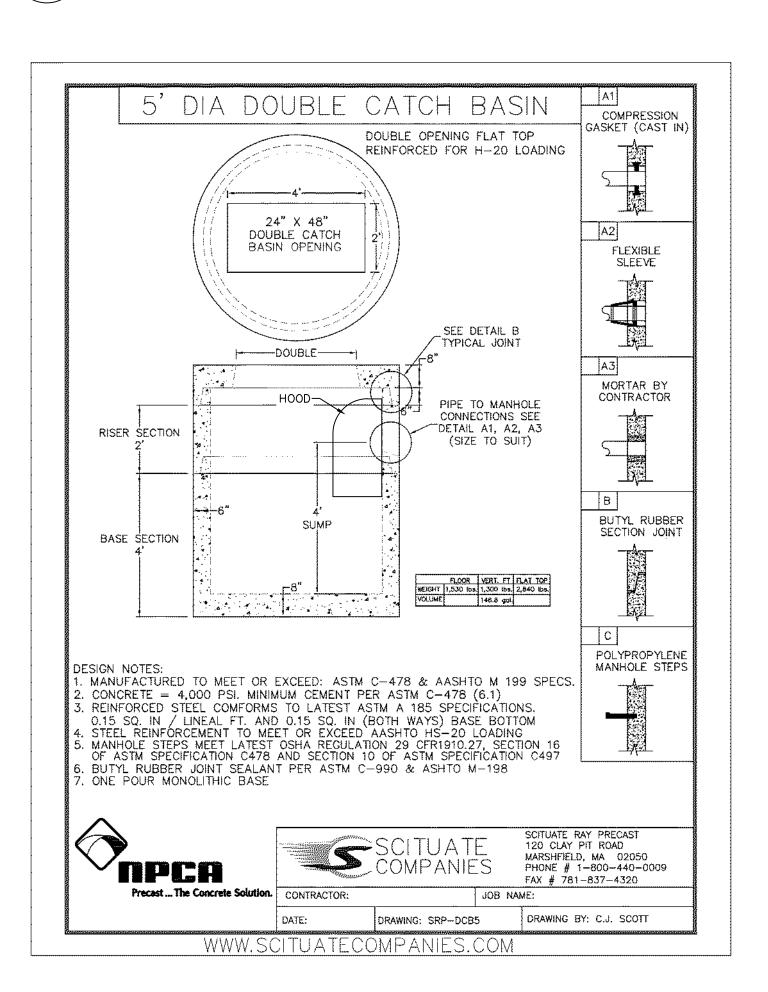


PRECAST CONCRETE MANHOLES 9' OR LESS IN DEPTH

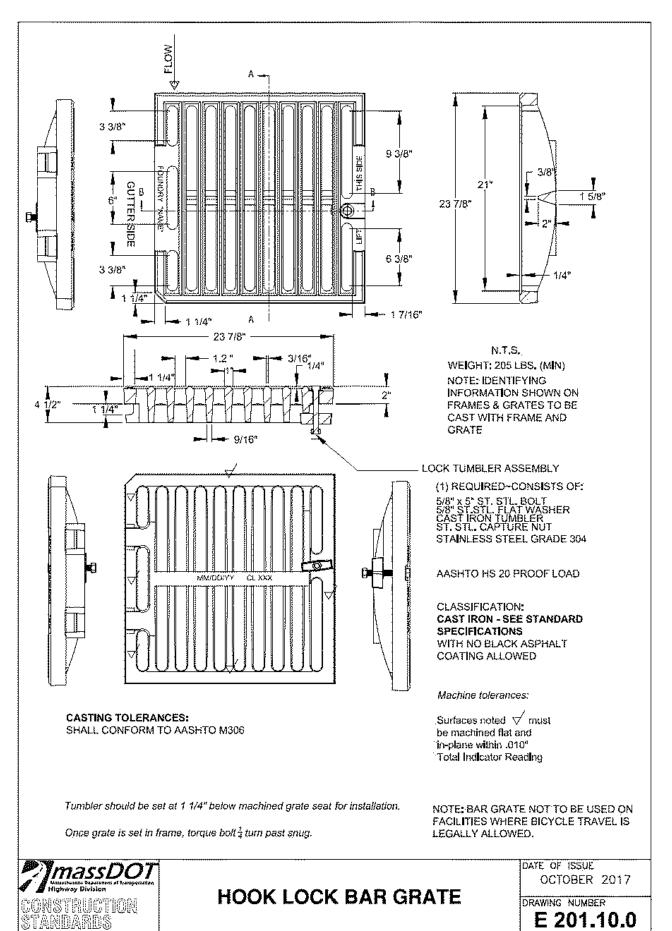
CATCH BASIN FRAME

PRECAST CONCRETE CATCH BASIN

CATCH BASIN HOOD

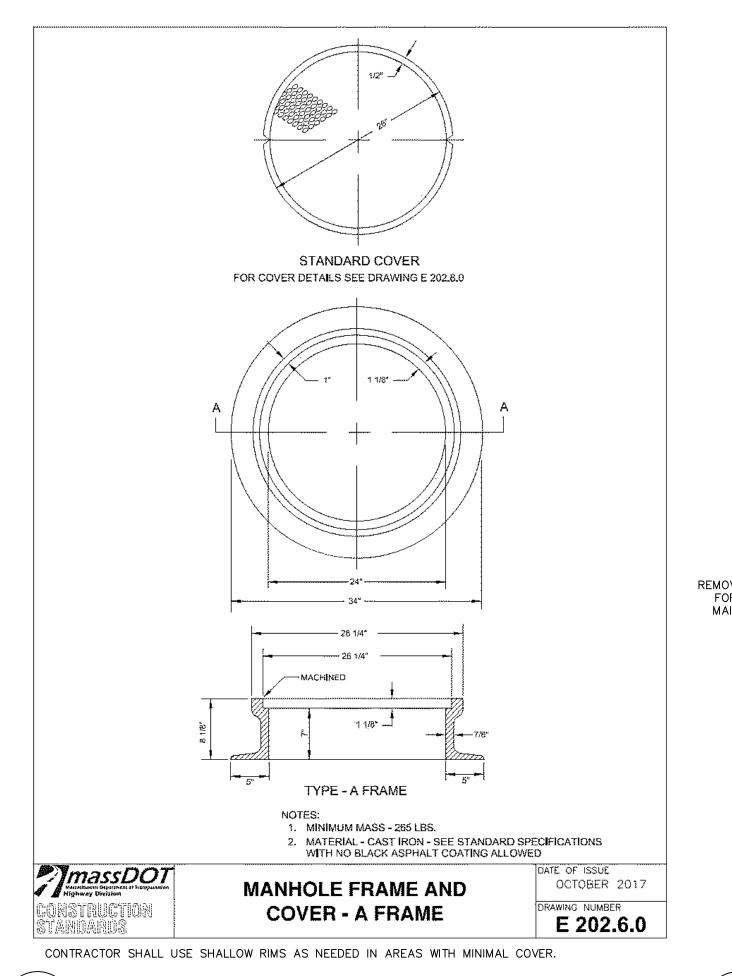


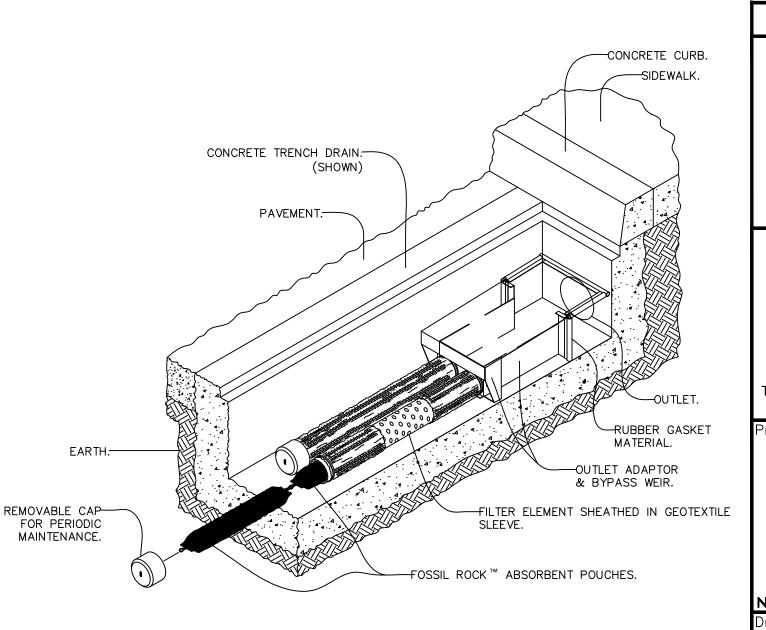
5' DIA DOUBLE CATCH BASIN



CATCH BASIN LOCK BAR GRATE

6





MEDWAY BATTERY ENERGY STORAGE SYSTEM

NORFOLK COUNTY MASSACHUSETT

F: 617.824.9101 www.langan.com

NOI REVISIONS

NOI COMMENT REVISIONS

NOI COMMENT REVISIONS

Description

Revisions

Environmental Services, Inc.

100 Cambridge Street, Suite 1310

Boston, MA 02114

10/04/23

Date

GRADING & DRAINAGE DETAILS

⊃roject No. Drawing No. 151033401 CG503 06/08/2023

MANHOLE FRAME AND COVER

NOTES:

TRENCH DRAIN FILTER (MODEL FG-TDOF8)

1. FILTER INSERT SHALL HAVE A HIGH FLOW BYPASS FEATURE.

3. FILTER MEDIUM SHALL BE FOSSIL ROCK™, INSTALLED AND

INSTALLATIONS SHALL BE PVC SCH-40.

2. FILTER OUTLET ADAPTER SHALL BE CONSTRUCTED FROM STAINLESS STEEL TYPE 304. ALTERNATE OUTLET ADAPTOR FOR SHALLOW

MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

Date: 8/1/2024 Time: 10:13 User: gbrummel Style Table: Langan.stb Layout: CG503 Document Code: 151033401-0501-CG501-0103

Checked By