

PLATTEKILL PUBLIC LIBRARY

REPLACEMENT OF SANITARY WASTEWATER DISPOSAL SYSTEM

BID DRAWINGS

PROJECT DIRECTORY

OWNER:
PLATTEKILL PUBLIC LIBRARY
2047 NY-32
MODENA, NY 12548

ARCHITECT:
ALLEN D. ROSS, AIA
ALLEN ROSS ARCHITECTURE, LLC
153 MAIN STREET
NEW PALTZ, NY 12561
845.255.0114

CIVIL ENGINEER
ANDREW WILLINGHAM, PE
WILLINGHAM & TOWNE ENGINEERING
183 MAIN STREET
NEW PALTZ, NY 12561
845.255.0210

DRAWING LIST

T-001	TITLE SHEET & PROJECT DIRECTORY
EC	EXISTING CONDITIONS PROPERTY SURVEY
A-001	ARCHITECTURAL SITE PLAN
P-1	SANITARY WASTEWATER DISPOSAL REPAIR
P-2	SANITARY WASTEWATER DISPOSAL DETAILS
P-3	EROSION & SEDIMENT CONTROL DETAILS

DRAWING SYMBOLS

	FIN FIRST FLOOR EL: ±100'-0"	ELEVATION LEVEL
	SP	START POINT
	1 A401	BUILDING SECTION / ELEVATION REFERENCE
	1 A401	DETAIL REFERENCE
	1 A401	DETAIL REFERENCE
	A 1 A401 B C	INTERIOR ELEVATION REFERENCE
	000A	WINDOW NUMBER
	101	DOOR NUMBER
	VESTIBULE 101	ROOM NUMBER
	114A-1	MILLWORK NUMBER
	100-A	PLUMBING NUMBER
	C-00	CABINETY NUMBER
	A-00	APPLIANCE NUMBER
	1	PARTITION TYPE

ABBREVIATIONS

A.B.	ANCHOR BOLT	INSUL.	INSULATION
ACC.	ACCESSIBLE	INT.	INTERIOR
ACT.	ACOUSTIC CEILING TILE	MAX.	MAXIMUM
ADD'L	ADDITIONAL	M.D.O.	MEDIUM DENSITY OVERLAY PLYWOOD
ADJ.	ADJACENT	MIN.	MINIMUM
A.E.D.	AUTOMATED EXTERNAL DEFIBRILLATOR	N.A.	NOT PART OF WORK
A.F.F.	ABOVE FINISH FLOOR	N.I.C.	NOT IN CONTRACT
APPROX.	APPROXIMATE	N.T.S.	NOT TO SCALE
ARCH.	ARCHITECT	O/	OVER
A.S.F.	ABOVE SUB FLOOR	O.C.	ON CENTER
B.	BOTTOM	OPNG.	OPENING
BD.	BOARD	OPP.	OPPOSITE
BET.	BETWEEN	PLYWD.	PLYWOOD
BIT.	BITUMINOUS	PNL.	PANEL
B.O.	BOTTOM OF	P.T.	PRESERVATIVE PRESSURE TREATED
CANT.	CANTILEVERED	PTD.	PAINTED
CL.	CLOSE	RECEPT.	RECEPTACLE
C.	CENTERLINE	REIN.	REINFORCED
CLG.	CEILING	REQ.	REQUIRED
COL.	COLUMN	RM.	ROOM
CONC.	CONCRETE	R.O.	ROUGH OPENING
CONT.	CONTINUOUS	R.T.U.	ROOF TOP UNIT
DEMO.	DEMOLISH	SCRN.	SCREEN
DIA.	DIAMETER	S.F.	SQUARE FEET
DIM.	DIMENSION	SIM.	SIMILAR
DR.	DOOR	SLP.	SLOPE
DS.	DOWNSPOUT	SQ.	SQUARE
DWG.	DRAWING	S.S.	STAINLESS STEEL
EL.	ELEVATION	ST.	STONE
ELEC.	ELECTRICAL	STD.	STANDARD
ELEV.	ELEVATION	STL.	STEEL
ELEVS.	ELEVATIONS	STRUC.	STRUCTURAL
E.O.	EDGE OF	SUBFLR.	SUB FLOOR
EQ.	EQUAL	T.	TOP
EQUIP.	EQUIPMENT	T&B.	TOP AND BOTTOM
E.T.R.	EXISTING TO REMAIN	T.B.D.	TO BE DECIDED
EXT.	EXTERIOR	T.&G.	TONGUE AND GROOVE
EXTG.	EXISTING	THK.	THICK
F.A.I.	FRESH AIR INTAKE	T.O.	TOP OF
F.F.	FINISH FLOOR	T.R.M.	TOILET ROOM
FIN.	FINISH	TYP.	TYPICAL
FLR.	FLOOR	UNL.	UNIVERSAL
F.M.F.M.	FACE OF MASONRY TO FACE OF MASONRY	UN.O.	UNLESS NOTED OTHERWISE
F.O.	FACE OF	V.I.F.	VERIFY IN FIELD
FOUND.	FOUNDATION	VERT.	VERTICAL
F.R.	FIBER REINFORCED	W.C.	WATER CLOSET
FTG.	FOOTING	W/	WITH
GALV.	GALVANIZED	WIND.	WINDOW
GYP. BD.	GYPSUM BOARD	WD.	WOOD
HORIZ.	HORIZONTAL	W.W.F.	WELDED WIRE FABRIC
H.D.G.	HOT DIPPED GALVANIZED		

6/11/2026	BID SET

ALLEN
ROSS ARCHITECTURE
GREENWICH, CT 203.832.9014
NEW PALTZ, NY 845.255.0114
AllenRossArchitecture.com

PLATTEKILL
PUBLIC
LIBRARY
MODENA, NY

TITLE SHEET &
PROJECT DIRECTORY

REGISTERED ARCHITECT
ALLEN DOUGLAS ROSS
L.I.C. #076699
STATE OF NEW YORK
PROJECT NO.
235
SEP
T-001

LEGEND	
	TRAFFIC SIGN
	MAILBOX
	DRILLED WELL
	MONUMENT
	REBAR
	LIGHT
	CAMERA
	UTILITY POLE
	UTILITY LINE
	STONE WALL
	WOOD FENCE
	BOX WIRE FENCE
	CHAIN LINK FENCE
	EDGE OF LAWN
	APPROXIMATE TAX MAP LINE
FF: FINISHED FLOOR ELEVATION	
LIDAR CONTOURS (SEE NOTE 8)	
EXISTING CONTOURS	

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LIDAR CONTOURS (SEE NOTE 8)
EXISTING CONTOURS

OWNER'S CERTIFICATION

THE UNDERSIGNED, OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE OF THE PROPERTY SHOWN ON THIS PLAT, DOES HEREBY CERTIFY THAT HE/SHE HAS REVIEWED THIS PLAT, IS FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS NOTES AND HEREBY CONSENTS TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

Signature

Date

PLANNING BOARD ENDORSEMENT

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF PLATTEKILL, SUBJECT TO ALL CONDITIONS AND REQUIREMENTS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT AS APPROVED SHALL VOID THIS APPROVAL.

Chairperson – Town Planning Board

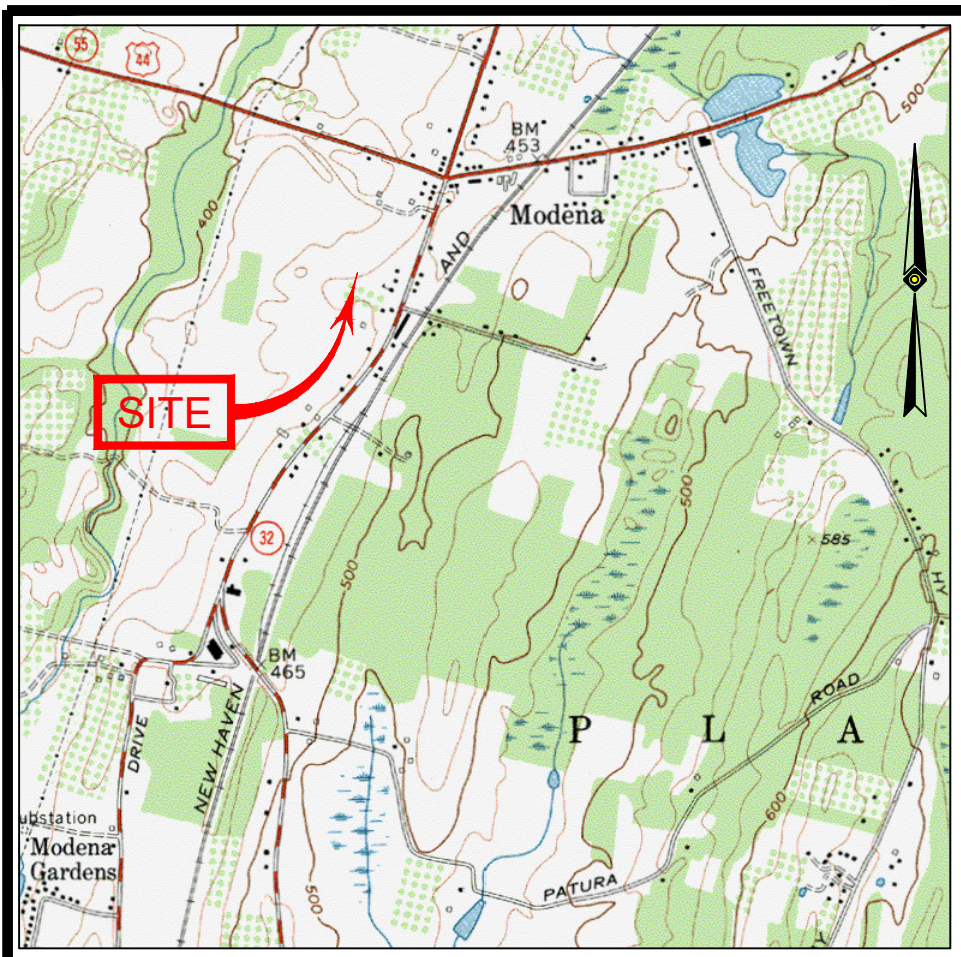
Date

ZONING TABLE

ZONING INFORMATION
BD-40 DISTRICT
SOURCE TOWN ZONING MAP

ITEMS	REQUIRED
MIN LOT AREA	40,000 SqFt
MIN LOT WIDTH	150'
MIN LOT DEPTH	200'
MIN FRONT YARD	35'
MIN SIDE YARD	25'
MIN REAR YARD	25'
MAX BUILDING HEIGHT	35'
MAX BUILDING COVERAGE	40%

NOTE: ZONING CRITERIA IDENTIFIED HEREON ARE BASED UPON THE TOWN CODE DATED 10/19/2005 AS AVAILABLE ON ECODE360.COM

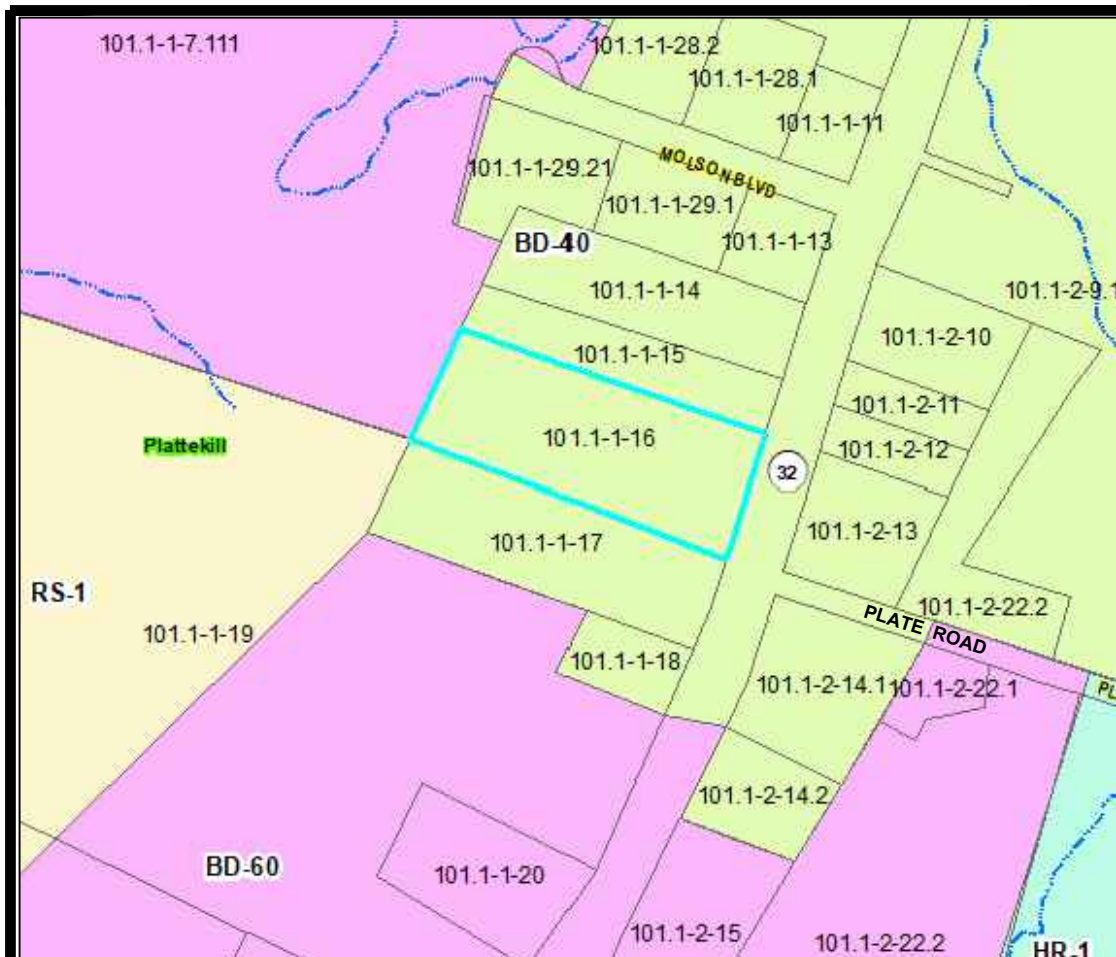


LOCATION MAP

SCALE : 1"= 2000'

USGS QUADRANGLE: CLINTONDALE

TOTAL AREA : 2.26 ACRES



SECTION : 101.1, BLOCK : 1, LOT : 16

TAX MAP

SCALE : 1"= 400'

NOTES:

1) LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES, IF ANY, ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND ANY MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.

THE SOURCE OF UNDERGROUND UTILITIES ARE SHOWN UTILIZING A QUALITY LEVEL SYSTEM:

QUALITY LEVEL C - LOCATION OF UTILITY SURFACE FEATURES SUPPLEMENTS REFERENCE MAPPING, INCLUDES MARKOUT BY OTHERS.

REFERENCE IS MADE TO UDIG NY TICKET NUMBER 02014-000-692

ALTICE USA - NO RESPONSE
CENTRAL HUDSON GAS & ELECTRIC - SUBJECT PARCEL CLEAR

2) SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

3) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN. IT IS STRONGLY RECOMMENDED THAT A COMPLETE TITLE SEARCH BE PROVIDED TO THE SURVEYOR FOR REVIEW PRIOR TO THE PLACEMENT OF OR ALTERATION TO IMPROVEMENTS ON THE PROPERTY. SUBJECT TO WHATEVER STATE OF FACTS A COMPLETE SEARCH OF TITLE MAY REVEAL.

4) SUBJECT TO ALL RIGHTS OF WAYS, COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.

5) CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PARTIES SO NOTED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS.

6) ROAD BOUNDS SHOWN HEREON BASED ON NYS DOT HIGHWAY TAKING MAP 110-R1, PARCEL NO. 140 FOR PLATTEKILL-MODENA S.H. 307.

7) THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.

8) LIDAR CONTOURS BASED ON NYS GIS 2014 LIDAR DATASET AND 2015 TOPOGRAPHIC 1 METER DEM. EXISTING CONTOURS BASED ON ACTUAL FIELD SURVEY. ELEVATION DATUM IS APPROXIMATE NAVD88 BASED ON RTK GPS OBSERVATIONS TAKEN AT THE TIME OF THE SURVEY.

REFERENCES:

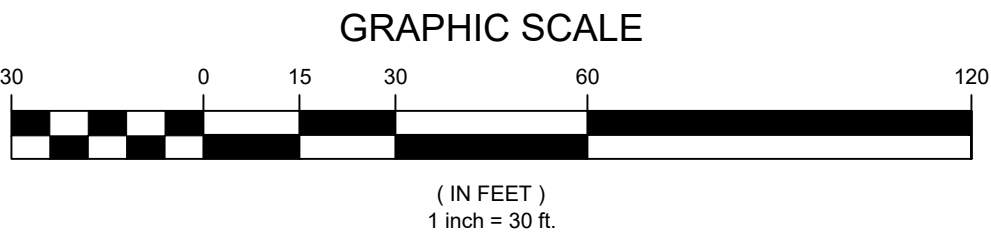
"MAP PREPARED FOR SOPHIA MOLSON" FILED WITH THE ULSTER COUNTY CLERK'S OFFICE ON 22 MARCH, 1984 AS FILED MAP NO. 5166.

REFERENCE DEED :

THE TOWN OF PLATTEKILL
-to-
PLATTEKILL PUBLIC LIBRARY
Deed Liber 6522 Page 248
Dated 15 NOVEMBER, 2019
Filed 25 NOVEMBER, 2019

RECORD OWNER :

PLATTEKILL PUBLIC LIBRARY
2047 NYS ROUTE 32
MODENA, NY 12548



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH EXISTING CODE OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED
WITH RAISED IMPRESSION OR INK SEAL

PATRICIA PAULI BROOKS, LS
NEW YORK PROFESSIONAL LAND SURVEYOR #49795

DATE

NO.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
FIELD DATE	02-06-24				
FIELD BOOK NO	HV #6				
FIELD BOOK PG	143-144				
FIELD CREW	DD				
DRAWN	GIO				
REVIEWED	SD				
APPROVED	PPB				
DATE	02-13-2024				
SCALE	1" = 30'				
FILE NO.	12-230654-00				
DWG. NO.	1				
OF	2				

MAP OF EXISTING CONDITIONS OF LANDS OF
PLATTEKILL PUBLIC LIBRARY
SBL: 101.1-1-16 TOWN OF PLATTEKILL
COUNTY OF ULSTER, STATE OF NEW YORK

CONTROL POINT ASSOCIATES INC PC
11 MAIN STREET
HIGHLAND, NY 12528
845.691.7339
WWW.CPASURVEY.COM

WADSWORTH, NY 10986-0000
CHAMPLAIN, NY 12019-0000
MT. KATAHDIN, NY 14867-0000
MANHATTAN, NY 10804-0000
LONG BEACH, NY 11561-0000
SOUTHERN ORANGE, NY 13486-0000
ALBANY, NY 12212-0000
GEORGETOWN, NY 12526-0000
PITTSBURGH, PA 15112-0000
PT. LAUDERDALE, FL 33304-0000

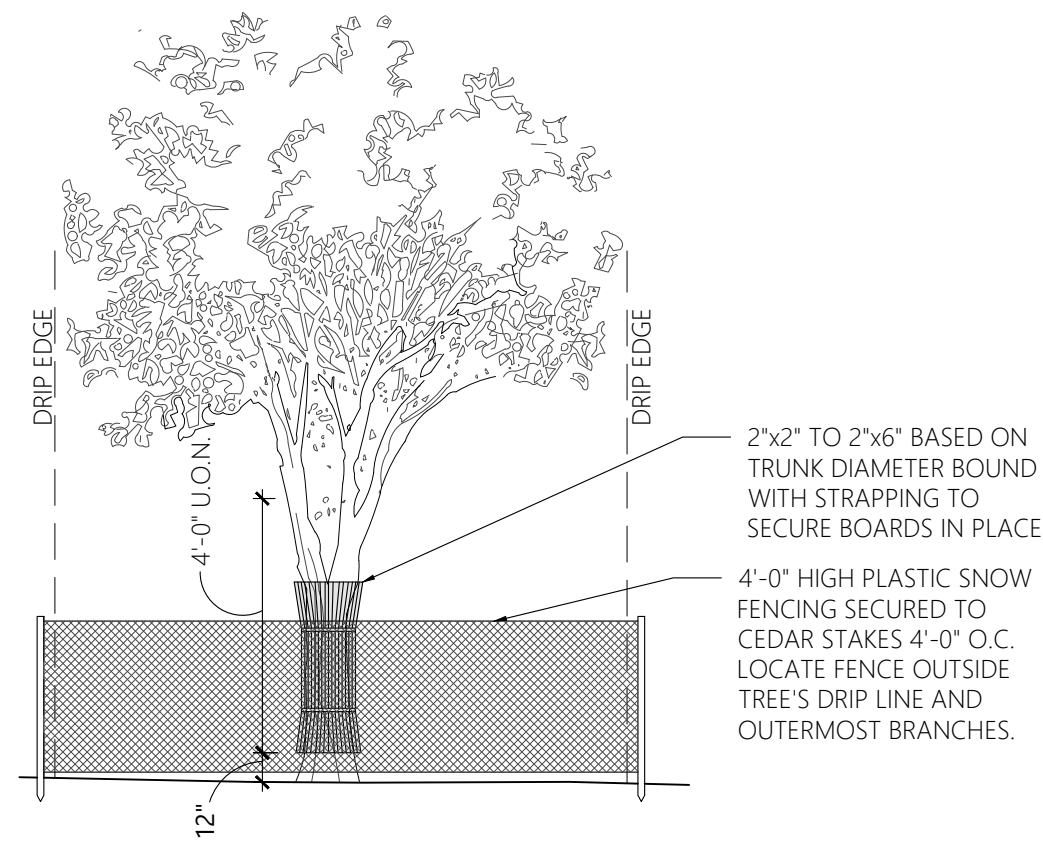


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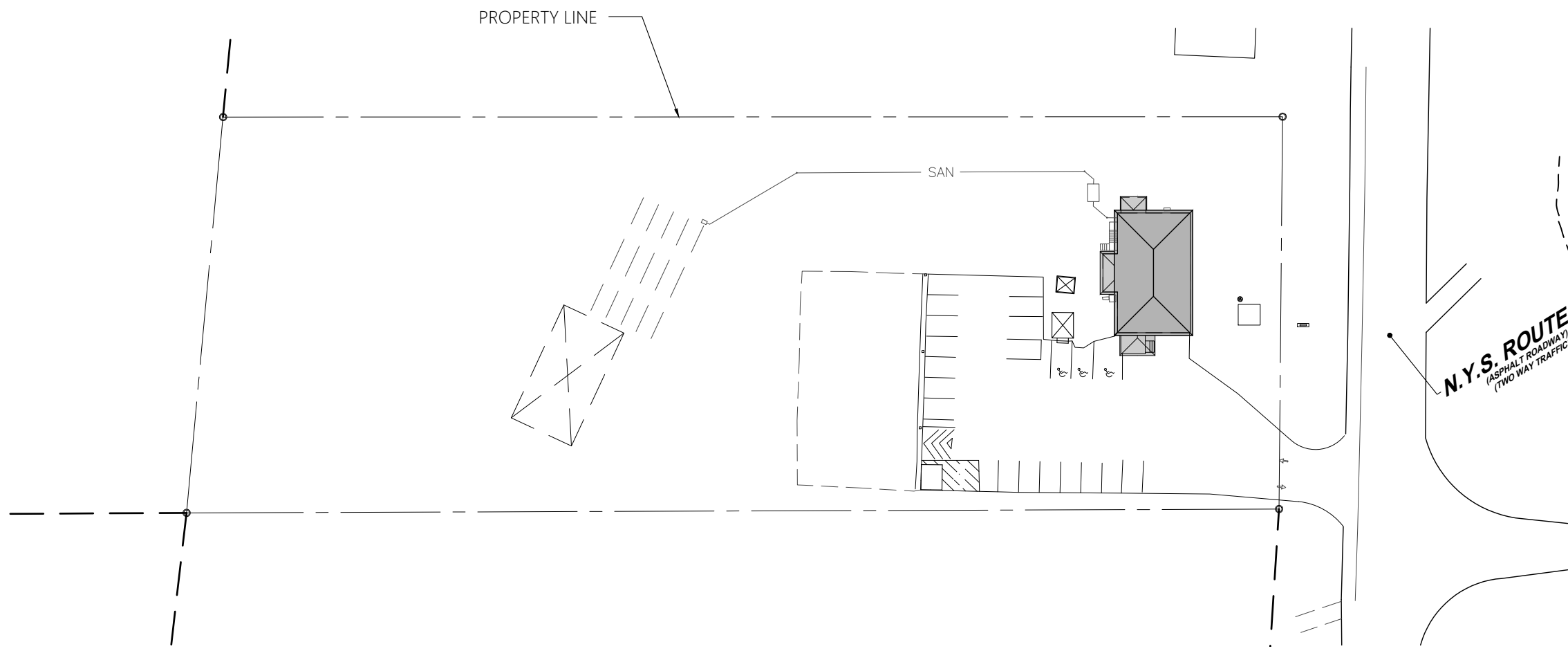
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THIS DOCUMENT IS THE PROPERTY OF CONTROL POINT ASSOCIATES INC. PC AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON.

NOT FOR CONSTRUCTION

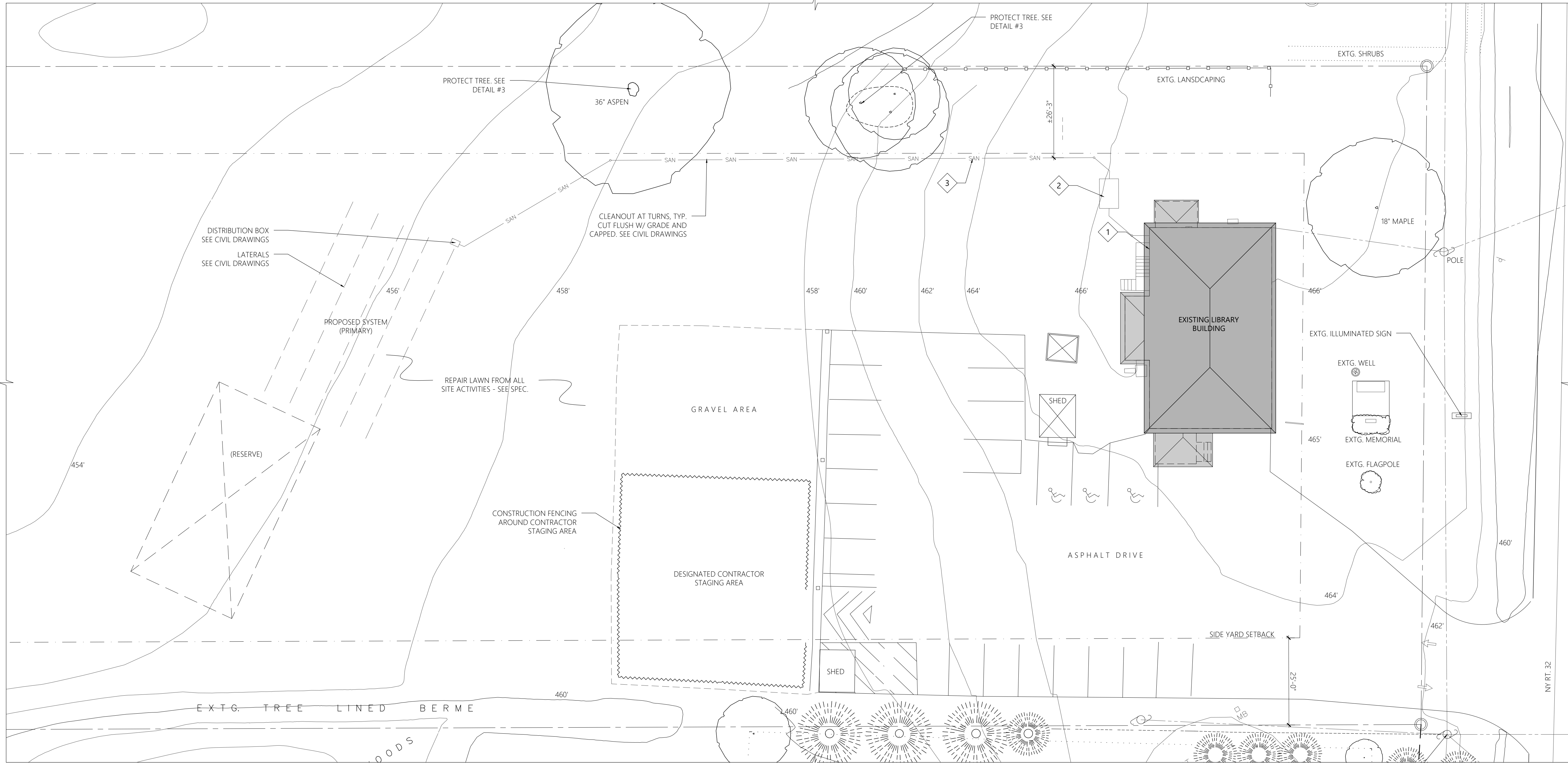
NOT FOR CONSTRUCTION



3 TREE PROTECTION DETAIL



2 SITE PLAN
SCALE: 1/64" = 1'-0"



1 PARTIAL SITE PLAN
SCALE: 1/16" = 1'-0"

- KEY NOTES:
- 1 RE-USE EXTG. FOUNDATION WALL PENETRATION, OR CORE DRILL AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY PRIOR TO BID. PATCH AND REPAIR AS REQUIRED.
 - 2 PRE-CAST CONCRETE SEPTIC TANK. SEE CIVIL DRAWINGS FOR SPECIFICATIONS. TANK INVERT ELEVATIONS SHALL BE COORDINATED W/ BOTH THE EXISTING LIBRARY BUILDING AND THE FUTURE LIBRARY BUILDING. REVIEW DETAILS W/ ARCHITECT AND ENGINEER.
 - 3 COORDINATE SANITARY DRAIN PIPING W/ FUTURE WORK. PLANNED AT THE LIBRARY. PLACE PIPING AS INDICATED ON DRAWINGS TO AVOID CONFLICT.

- GENERAL NOTES
1. SEE CIVIL DRAWINGS AND PROJECT MANUAL FOR PROJECT DETAILS AND REQUIREMENTS.
- TREE PROTECTION NOTES
1. ANY EXISTING TREES WITHIN THE LIMITS OF THE SITE CONSTRUCTION FENCE, OR WITHIN COMMON VEHICULAR ROUTES FOR MATERIAL DELIVERIES SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE WORK. THE "TREE PROTECTION ZONE" IS DEFINED BY THE DRIP LINE OF THE TREE. THIS ZONE SHALL BE PROTECTED BY A FENCE, UNLESS CONDITIONS WARRANT THE FENCE TO BE LOCATED CLOSER TO THE TREE. IF TREE PROTECTION FENCING NEEDS TO BE MOVED OR BREACHED DUE TO TEMPORARY CONSTRUCTION WITHIN THE TREE PROTECTION ZONE, THE FENCING SHALL BE RESET TO ITS ORIGINAL LOCATION IMMEDIATELY FOLLOWING THIS WORK OCCURRING.
 2. TREE PROTECTION PLANKING SHALL BE INSTALLED ON TREES ONLY WHEN WORK IS BEING DONE WITHIN THE LIMIT OF THE TREE PROTECTION FENCING.
 3. WHEN DEMOLITION OR MINOR SURFACE EXCAVATION WORK OCCURS WITHIN THE TREE PROTECTION ZONE THE WORK SHALL BE PERFORMED BY NON-MECHANICAL METHODS AND IN A DELICATE MANNER. CONTRACTOR SHALL PROTECT THE ROOT MASS (AS DEFINED AS THE TREE DRIP LINE) AGAINST DAMAGE DURING WORK. TREE ROOTS THAT ARE DISTURBED, EXPOSED, BROKEN, OR CUT SHALL BE PRUNED BACK WITH CLEAN SHARP TOOLS. ALL ROOTS EXPOSED SHALL BE COVERED WITH TWO INCHES OF SHREDDED HARDWOOD MULCH AND THOROUGHLY IRRIGATED ON A DAILY BASIS.
 4. ANY EXCAVATION WORK DONE WITHIN THE TREE PROTECTION ZONE SHALL BE DONE WITH THE LEAST DAMAGING NON-MECHANICAL METHOD FOR THE EXISTING TREE'S ROOT SYSTEM. THE WORK SHALL BE PERFORMED BY HAND OR BY UTILIZING AN AIR SPADE, OR EQUIVALENT, AS APPROVED BY THE ARCHITECT OR CIVIL ENGINEER.

- LAWN NOTES
1. PATCH & REPAIR ANY DAMAGED LAWN DUE TO SITE ACTIVITIES. SEE SPECIFICATIONS FOR SEED, RAKE & STRAW REQUIREMENTS.
 2. ALL AREAS THAT RECEIVE A PLANTED LAWN OR STANDS OF GRASS SHALL BE TOPSOILED, FINELY GRADED, AND RAKED TO REMOVE ALL DEBRIS AND STONES LARGER THAN A 1/2-INCH DIAMETER. THIS WORK SHALL BE COMPLETED BEFORE COMMENCEMENT OF SOWING SEED.

6/11/2026 BID SET

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SITE PLAN

REGISTERED ARCHITECT
ALLEN DOUGLAS ROSS
LIC #076699
STATE OF NEW YORK

PROJECT NO.
235
SEP

A-001

CONSTRUCTION NOTES	
1. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP OR PLAN BEARING AN ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.	11. UNLESS OTHERWISE DIRECTED BY THESE CONSTRUCTION DRAWINGS, OR ALLOWED BY THE AUTHORITIES HAVING JURISDICTION, ALL EXISTING FACILITIES SHALL BE PROTECTED AND SHALL REMAIN IN SERVICE AND ACCESSIBLE.
2. EROSION CONTROL METHODS SHALL BE EMPLOYED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TO MINIMIZE IMPACT ON THE SITES STREAM AND WETLANDS ALL WORK IN THIS REGARD SHALL BE IN CONFORMANCE WITH THE APPLICABLE STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH THE MUNICIPALITY'S CODE ENFORCEMENT OFFICER. ALL MEASURES IMPLEMENTED SHALL BE MONITORED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.	12. CONTRACTOR IS ADVISED THAT SITE FACILITIES IN THE VICINITY OF THE PROPOSED WORK ARE ACTIVE AND USED BY OTHERS. THEREFORE, UNLESS OTHERWISE PERMITTED, THE CONTRACTOR SHALL PERFORM THE PROPOSED WORK AND PROVIDE THE NECESSARY CONTROLS SUCH THAT SAFE PEDESTRIAN AND VEHICULAR ACCESS TO ALL EXISTING SITE FACILITIES IS MAINTAINED AT ALL TIMES.
3. DISTURBANCE TO EXISTING SITE CONDITIONS DURING CONSTRUCTION SHALL BE MINIMIZED. CONTRACTOR SHALL CONSIDER CONDITION AND EXTENT OF EXISTING SITE CONDITIONS SUBJECT TO DAMAGE. ALL DISTURBANCE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.	13. CONTRACTOR SHALL REVIEW AND SUBMIT DRAWINGS FOR EQUIPMENT AND FABRICATIONS TO BE USED IN CONSTRUCTION. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
4. SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO PLACEMENT OF NEW WORK OR FINISHED SURFACE APPLICATION.	14. WHEN DISTURBED, EXISTING FACILITIES SHALL BE REPAIRED OR REPLACED IN KIND AND IN ACCORDANCE WITH THE REQUIREMENTS OR DIRECTION OF THE AUTHORITY HAVING JURISDICTION. ASSOCIATED COSTS SHALL BE BORNE BY THE CONTRACTOR.
5. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, SNOW, OR ICE. FROZEN MATERIALS SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.	15. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES, OR REGULATIONS TAKE PRECEDENCE.
6. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM EXISTING AND NEW FACILITIES.	16. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
7. UNLESS OTHERWISE INDICATED OR PERMITTED, ALL DISTURBED AREA SHALL BE TOPSOILED (4 INCH DEPTH), SEEDED AND MULCHED. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING STABLE VEGETATIVE COVER PRIOR TO FINAL ACCEPTANCE BY OWNER.	17. CONTRACTOR SHALL PLAN AND COORDINATE THIRD PARTY INSPECTIONS REQUIRED BY STATE OR LOCAL AUTHORITIES. THE OWNER, OR THE ENGINEER, A MINIMUM FORTY-EIGHT (48) HOUR NOTICE SHALL BE PROVIDED TO THE INSPECTOR.
8. RUBBISH, STUMPS, TREES REMOVED, DEBRIS, STONE AND OTHER REFUSE SHALL BE CONTAINED, REMOVED FROM THE SITE, AND DISPOSED OF IN A TIMELY MANNER AND IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL REGULATIONS.	18. DESIGN OF LIGHTING, ELECTRICAL, GROUNDING, FOUNDATION AND BUILDINGS TO BE DONE BY OTHERS.
9. CONTRACTOR SHALL KEEP WORK AREA CLEAN, HAZARD FREE, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.	19. IN AREAS WHERE UNDERGROUND UTILITIES EXIST, UTILITIES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION IN THE AREA. SHOULD ANY CONFLICTS OCCUR IN RELATION TO THE PROPOSED CONSTRUCTION, THE ENGINEER SHALL BE CONSULTED.
10. CONTRACTOR SHALL CONDUCT ACTIVITIES ASSOCIATED WITH THIS WORK IN A MANNER CONSISTENT WITH ANY AND ALL REQUIREMENTS OF THE SITE OWNER/OPERATOR INCLUDING, BUT NOT LIMITED TO, SITE USE, PROTECTION OF PERSONS AND PROPERTY, WASTE CONTAINMENT, SITE SECURITY, AND NOTIFICATION.	

WASTEWATER SYSTEM DESIGN CALCULATIONS	
PROPOSED WASTEWATER FLOW:	
5 EMPLOYEES @ 15 GPD PER EMPLOYEE + 0.8 (WATER CONSERVING FIXTURES) = 80 GPD 200 PATRONS @ 15 GPD PER PATRON + 0.8 (WATER CONSERVING FIXTURES) = 600 GPD TOTAL FLOW = 860 GPD	
SEPTIC TANK:	
SEPTIC TANK SIZED PER NYSDEC WASTEWATER TREATMENT STANDARDS: 1.5" Q = 1.5" 860 = 1,290 GALLONS = 2,000 GALLON TANK PROPOSED	
ABSORPTION FIELD:	
<u>PRIMARY AREA - IN-GROUND ELIEN GSF SYSTEM</u>	
LENGTH OF ABSORPTION TRENCH REQUIRED = (FLOW RATE (Q) @ APPLICATION RATE) ÷ 6 SQUARE FEET/FOOT OF TRENCH = (860 GPD @ 0.5 GAL./DAY/SQ. FT.) ÷ 6 SQ. FT./FT. = 287 LINEAL FEET OF ABSORPTION TRENCH REQUIRED	
INSTALL 5 TRENCHES @ 60 LINEAL FEET = 300 LINEAL FEET OF TRENCH PROVIDED	
<u>RESERVE AREA - IN-GROUND ELIEN GSF SYSTEM</u>	
LENGTH OF ABSORPTION TRENCH REQUIRED = (FLOW RATE (Q) @ APPLICATION RATE) ÷ 6 SQUARE FEET/FOOT OF TRENCH = (860 GPD @ 0.5 GAL./DAY/SQ. FT.) ÷ 6 SQ. FT./FT. = 287 LINEAL FEET OF ABSORPTION TRENCH REQUIRED	
INSTALL 5 TRENCHES @ 60 LINEAL FEET = 300 LINEAL FEET OF TRENCH PROVIDED	

DEEP TEST RESULTS			
TEST	ROCK DEPTH	WATER DEPTH	SOIL PROFILE
DT-1	--	--	0'-7" - TOPSOIL 7'-50" - SAND & GRAVEL
DT-2	--	--	0'-7" - TOPSOIL 7'-40" - SILTY LOAM 40'-54" - SAND & GRAVEL
DT-3	--	--	0'-7" - TOPSOIL 7'-63" - SILTY LOAM
DT-4	--	--	0'-7" - TOPSOIL 7'-48" - SILTY LOAM 28'-63" - SAND
DT-5	--	--	0'-7" - TOPSOIL 7'-26" - SILTY LOAM 28'-52" - GR. LOAM W/CBbbles
DT-6	--	--	0'-7" - TOPSOIL 7'-48" - SILTY LOAM 48'-60" - GR. LOAM

PERCOLATION TEST RESULTS		
TEST	HOLE DEPTH	STABILIZED RATE
PT-1	24"	40 M
PT-2	24"	43 M
PT-3	24"	12 M

TEST	HOLE DEPTH	STABILIZED RATE
PT-1	24"	40 M
PT-2	24"	43 M
PT-3	24"	12 M

WASTEWATER APPLICATION RATES	
PERCOLATION RATE (MINUTES/INCH)	APPLICATION RATE (GAL./DAY/SQ. FT.)
1 - 5	1.20
6 - 7	1.0
8 - 10	0.90
11 - 15	0.80
16 - 20	0.70
21 - 30	0.60
31 - 45	0.50
46 - 60	0.45

1. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF "APPENDIX 75 A OF PART 75 OF THE NYS HEALTH CODE," NEW YORK STATE DEPARTMENT OF HEALTH AND "THE NEW YORK STATE DESIGN STANDARDS FOR ENVIRONMENTALLY SIZED WASTEWATER TREATMENT PLANTS," LATEST EDITION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
2. NO PROPOSED WELLS WITHIN 100' OF A SEPTIC SYSTEM.
3. NO PROPOSED SEPTIC SYSTEMS WITHIN 100' OF A SEPTIC SYSTEM.
4. ALL PIPE PENETRATIONS AND UNUSED OUTLETS IN THE SEPTIC TANK AND DISTRIBUTION BOX MUST BE SEALED WITH GROUT.
5. NO TRENCHES SHALL BE EXCAVATED TO A DEPTH OF 48 INCHES OR DEEPER.
6. PERFORATED PIPING IN THE ABSORPTION TRENCHES SHALL SLOPE PER DETAIL.
7. THE ENDS OF ALL DISTRIBUTION LATERALS SHALL BE CAPPED.
8. NEW AND EXISTING DRAINAGE DITCHES SHALL EXTEND TO DAYLIGHT AND NOT BE DIRECTED OUTTO THE SEPTIC FIELD AREA.
9. LOW FLOW WATER SAVING FIXTURES SHALL BE USED. GARBAGE GRINDER DISPOSALS ARE NOT ALLOWED.
10. ALL TREES WITHIN 10 FEET OF THE SEPTIC FIELD AREA MUST BE REMOVED PRIOR TO THE INSTALLATION OF THE SEPTIC FIELD.
11. NO DRIVEWAYS, RONDRAVIA, DRIVEWAYS OR PARKING AREAS SHALL BE CONSTRUCTED OVER ANY PORTION OF THE WASTEWATER DISPOSAL SYSTEM.
12. HEAVY EQUIPMENT MUST BE KEPT AWAY FROM THE DRAINAGE FIELD. SINCE THE WEIGHT OF THE EQUIPMENT WILL PERMANENTLY ALTER SOIL CHARACTERISTICS DUE TO COMPACTION.
13. THERE SHALL BE NO BENDS IN THE RAW SEWER LINE.
14. ALL STRUCTURES, INCLUDING SEPTIC TANKS, DISTRIBUTION BOXES, SHEDS OR DECKS SHALL NOT BE CONSTRUCTED ABOVE SEPTIC TANKS, DISTRIBUTION BOXES, AND ABSORPTION AREAS.
15. THE OWTS IS NOT DESIGNED TO RECEIVE MACERATED WASTEWATER FROM GARBAGE GRINDERS OR INTERNAL SEWAGE PUMP STATIONS.

1. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF "APPENDIX 75 A OF PART 73 OF THE NYS HEALTH CODE," "NEW YORK STATE DEPARTMENT OF HEALTH AND LABOR REQUIREMENTS."
2. THE DESIGN OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH THE MOST CURRENT ELIEN NEW YORK DESIGN AND INSTALLATION MANUAL.
3. NO PROPOSED WELLS WITHIN 100 FEET OF A SEPTIC SYSTEM. WELLS LOCATED DOWNSTREAM OF A SEPTIC SYSTEM MUST BE SPACED 200 FEET OR MORE AWAY.
4. PIPE PENETRATING THROUGH THE GSF MODULES SHALL BE INSTALLED IN DISTRIBUTION BOX.
5. NO TRENCHES SHALL BE INSTALLED IN WET OR FROZEN SOIL.
6. THE ENDS OF ALL DISTRIBUTION LATERALS SHALL BE CAPPED.
7. ROOF AND FOOTING DRAIN PIPES MUST EXTEND TO DAYLIGHT AND NOT BE DIRECTED INTO THE SEPTIC SYSTEM.
8. LOW FLOW WATER CONSERVING FIXTURES SHALL BE USED. GARBAGE GRINDER DEVICES ARE NOT ALLOWED.
9. ALL TREES WITHIN 10 FEET OF THE SEPTIC FIELD AREA MUST BE REMOVED PRIOR TO THE INSTALLATION OF THE SEPTIC FIELD.
10. NO DRIVEWAYS, ROADWAYS, PARKING AREAS, HORSE CORRALS OR ABOVE GROUND POOL. SHALL BE CONSTRUCTED OVER ANY PORTION OF THE WASTEWATER DISPOSAL AREA.
11. HEAVY EQUIPMENT MUST BE KEPT AWAY FROM THE PROPOSED WASTEWATER DISPOSAL FIELD SINCE THE WEIGHT OF THE EQUIPMENT MAY PERMANENTLY ALTER SOIL CHARACTERISTICS DUE TO COMPACTION.
12. THE SEPTIC TANK SHALL BE MAINTAINED ONCE EVERY TWO TO THREE YEARS. SEPTIC TANKS NEED TO BE PUMPED OUT WHENEVER THE BOTTOM OF THE SCUM LAYER IS WITHIN THREE INCHES OF THE BOTTOM OF THE OUTLET BAFFLE OR SANITARY TEE. THE TOP OF THE SCUM LAYER IS CLOSE TO THE TOP OF THE OUTLET BAFFLE OR SANITARY TEE. OR THE SCUM LAYER IS WITHIN INCHES OF THE OUTLET BAFFLE OR SANITARY TEE.
13. MAX USAGE PER WASTEWATER DESIGN CALCULATIONS. OVERLOAD CAN CAUSE FAILURE.
14. THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENER.
15. ORGANIC MATERIAL THAT CAN RESTRICT FLOW MUST BE REMOVED FOR RAISED BEDS. THE SOIL MUST BE SCARIFIED TO PROVIDE DEEP CHANNELS FOR THE SAND. A PAVED SURFACE ON CONTOUR IS RECOMMENDED TO PREPARE THE SOIL FOR FILL PLACEMENT.
16. SCARIFY ANY SMEARED SUBSOIL PRIOR TO FILL PLACEMENT.
17. FILL MATERIAL SHALL MEET OR EXCEED STATE OF NEW YORK CODE REQUIREMENTS. ALL FILL REQUIREMENTS: 1) FILL SHALL BE SAND, FREE OF TOPSOIL, HUMUS, AND "DREDGING" DIRECTLY BENEATH THE GSF SYSTEM.
18. ASTM C33 SPECIFIED SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE SHALL BE PLACED ABOVE AND AROUND THE GSF MODULES WITH 6 INCHES MINIMUM BETWEEN THE MODULES. IN BED SYSTEMS, USE 6 INCHES MINIMUM UNDERNEATH THE MODULES WITH 12 INCHES MINIMUM BETWEEN MODULE ROWS AND 12 INCHES MINIMUM AROUND THE PERIMETER OF THE MODULES.
19. ELIEN PROVIDED GEOTEXTILE COVER FABRIC SHALL PROVIDE PROPER TENSION AND ORIENTATION OF THE FABRIC AROUND THE SIDES OF THE PERFORATED PIPE. THE TENSION OF THE GSF MODULES SHALL BE TIGHT, NOT TOO LOOSE, NOT TOO TIGHT. THE CORRECT TENSION OF THE COVER FABRIC IS SET BY:
 1. SPREADING THE COVER FABRIC OVER THE TOP OF THE MODULE AND DOWN BOTH SIDES OF THE MODULE WITH THE COVER FABRIC TENTED OVER THE TOP OF THE MODULE.
 2. PLACE SHOVEL FULL'S OF SPECIFIED SAND DIRECTLY OVER THE PIPE AREA ALLOWING THE COVER FABRIC TO FORM A MOSTLY VERTICAL ORIENTATION ALONG THE SIDES OF THE PIPE. REPEAT THIS STEP MOVING DOWN THE PIPE.
 3. BACKFILL LATERAL SAND TO THE SIDES OF THE ROOTS OR STONES LARGER THAN 2 INCHES IN ANY DIMENSION TO A MINIMUM DEPTH OF 8 INCHES OVER THE GSF MODULES AND FINAL COVER FOR VEGETATION OF 4 INCHES TO 6 INCHES OF CLEAN LOAM.
20. ANY SYSTEM WHICH IS MORE THAN 18 INCHES BELOW FINISH GRADE AS MEASURED FROM THE TOP OF THE MODULE SHALL BE VENTED.

LOCATION MAP

SCALE: 1" = 2,000'

ROUTE 44

ROUTE 91

COGSWELL AVENUE

SITE

BOOK AND PAGE:	L 6522 P 248
SECTION-BLOCK-LOT:	101.1-1-16
PARCEL AREA:	2.26 ACRES
ZONING DISTRICT:	BD-40 - BUSINESS
OWNER:	PLATTEKILL PUBLIC LIBRARY

1. PROPERTY LINES, STRUCTURE LOCATIONS, TOPOGRAPHY AND OTHER SITE FEATURES TAKEN FROM SURVEY PREPARED BY CONTROL POINT ASSOCIATES DATED NOVEMBER 11, 2025.

	<p>EXISTING PROPERTY LINE ADJACENT PROPERTY LINE EXISTING IRON PIPE EXISTING BOLLARD EXISTING DRAINAGE CATCH BASIN EXISTING EDGE OF PAVEMENT EXISTING FENCE UTILITY POLE & OVERHEAD LINE UTILITY POLE WITH GUY WIRE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR EXISTING TREE LINE EXISTING STONE WALL EXISTING DRAINAGE SWALE EXISTING LIGHT POST EXISTING SIGN EXISTING MAILBOX EXISTING DRAINAGE CATCH BASIN</p>
	<p>EXISTING DRAINAGE LINE PERCOLATION TEST LOCATION DEEP TEST LOCATION PROPOSED PRIMARY SANITARY DISPOSAL SYSTEM PROPOSED RESERVE SANITARY DISPOSAL SYSTEM PROPOSED SEPTIC TANK PROPOSED SANITARY SEWER CLEAN OUT PROPOSED DISTRIBUTION BOX PROPOSED 4" PVC SEWER LINE PROPOSED SILT FENCE</p>

SHEET	TITLE	LATEST REVISION DATE
P-1	PHASE 1 - SANITARY WASTEWATER DISPOSAL REPAIR	06/09/26
P-2	PHASE 1 - SANITARY WASTEWATER DISPOSAL DETAILS	06/09/26
P-3	EROSION & SEDIMENT CONTROL DETAILS	06/09/26

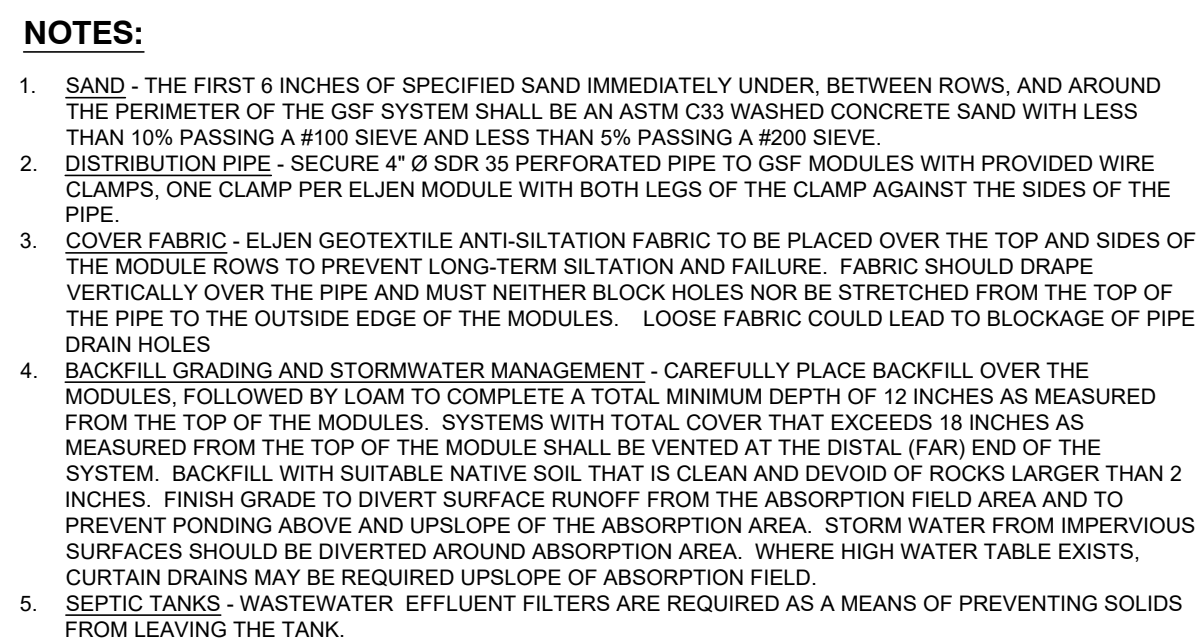


UNDER ARTICLE 145 (ENGINEERING), SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW, IT IS UNLAWFUL FOR ANY PERSON TO ALTER ANY ITEM ON THIS DRAWING, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED SURVEYOR. IF ANY ITEM IS ALTERED, THE ALTERING ENGINEER AND/OR SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

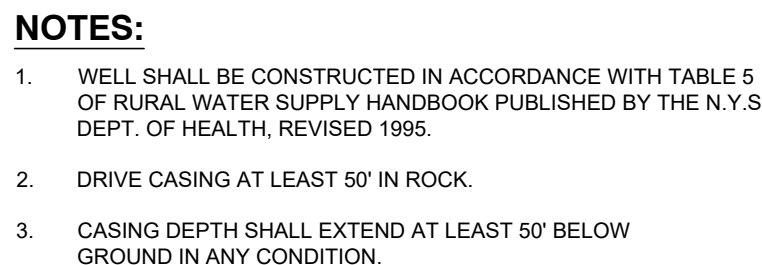
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<h1 style="margin: 0;">PLATTEKILL LIBRARY</h1> <p style="margin: 0;">2047 ROUTE 32</p> <p style="margin: 0;">TOWN OF PLATTEKILL, ULSTER COUNTY, NEW YORK</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">DATE</td> <td style="width: 50%; padding: 2px;">SCALE</td> </tr> <tr> <td style="padding: 2px;">06/09/26</td> <td style="padding: 2px;">AS SHOWN</td> </tr> <tr> <td colspan="2" style="padding: 2px;">PROJECT NO.</td> </tr> <tr> <td colspan="2" style="padding: 2px;">24054</td> </tr> <tr> <td colspan="2" style="padding: 2px;">SHEET NO.</td> </tr> <tr> <td colspan="2" style="padding: 2px;">P-1</td> </tr> </table>	DATE	SCALE	06/09/26	AS SHOWN	PROJECT NO.		24054		SHEET NO.		P-1	
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AOV	AVW
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06/09/26	AS SHOWN
PROJECT NO.	
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SHEET NO.	
P-1	



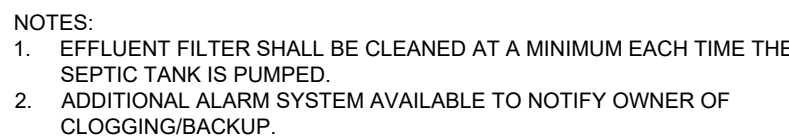
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SCALE: N.T.S.



SCALE: N.T.S.



SA 2 SCALE: NTS

NOTES:

- 1.) TO ENSURE PROPER SYSTEM OPERATION, ELJEN CORPORATION REQUIRES ALL OF ITS GSF AND MANTIS SYSTEMS TO BE INSTALLED USING AN ASTM C33 SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE.
- 2.) INSTALLERS MUST REQUEST A SIEVE ANALYSIS FROM THEIR SUPPLIER TO ENSURE THAT THE SPECIFIED SAND THAT IS PURCHASED FOR USE DURING INSTALLATION OF THE ELJEN GSF OR MANTIS SYSTEMS MEETS THE SPECIFIED SAND REQUIREMENTS LISTED ABOVE.
- 3.) SIEVE ANALYSIS MUST BE PROVIDED TO UCDOH FOR APPROVAL.

NOTES:

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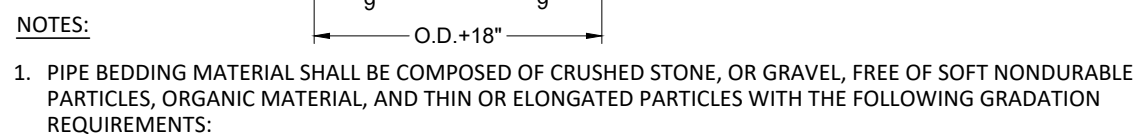
3 ELJEN GSE MULTIPLE TRENCH CROSS SECTION



NOTES:

1. ALL PIPE JOINTS SHALL BE POLYLOK SEAL OR EQUAL.
2. FLOW EQUALIZERS ARE REQUIRED ON ALL OUTLETS.
3. DISTRIBUTION BOX SHALL BE WOODARD'S CONCRETE PRODUCTS, INC. PRECAST DISTRIBUTION BOX MODEL DB-9/8 OR EQUAL.

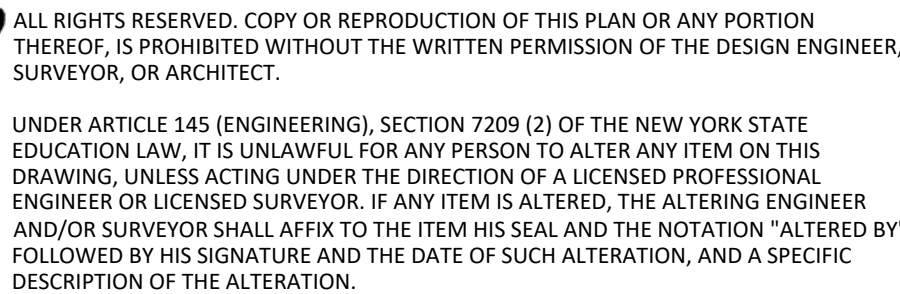
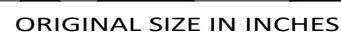
SCALE: N.T.S.



<u>SIEVE DESIGNATION</u>	<u>% PASSING</u>
4"	100
1"	80-100
1/4"	0-80
NO. 200	0-10

2. BEDDING MATERIAL SHALL BE STOCKPILED.
3. ALL TRENCH BACKFILL MATERIAL WILL BE WELL COMPACTED IN 6"-8" LIFTS, TO 95% STANDARD PROCTOR DENSITY
4. BOTTOM OF TRENCH WILL BE FLAT AND LEVEL WITH NO LARGE STONES OR UNSTABLE SOILS PRESENT.
5. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
6. FOR FORCE MAIN, PROVIDE POSITIVE PITCH FROM FORCE MAIN OUTLET (DISTRIBUTION BOX) TO PUMP STATION.

SCALE: N.T.S.



E N G I N E E R I N G

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SHEET NO.	

EROSION AND SEDIMENT CONTROL NOTES - GENERAL

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND PRINCIPLES AS OUTLINED IN THE "NEW YORK STATE STANDARDS AND REGULATIONS FOR EROSION AND SEDIMENT CONTROL" AND THE LOCAL MUNICIPALITY'S EROSION AND SEDIMENT CONTROL STANDARDS AND PRACTICES, IF SUCH A DOCUMENT EXISTS. THE INTENT OF THE OUTLINED MEASURES IS TO MINIMIZE EROSION AND SEDIMENTATION DURING CONSTRUCTION, STABILIZE AND PROTECT THE SITE FROM EROSION AFTER CONSTRUCTION IS COMPLETE AND MITIGATE ANY ADVERSE IMPACTS TO STORMWATER QUALITY RESULTING FROM SEDIMENT RUNOFF CAUSED BY DEVELOPMENT ACTIVITIES.

NO SOIL STOCKPILE OR GRADED AREA SHALL REMAIN EXPOSED FOR MORE THAN 14 DAYS. THE EXPOSED AREAS OR SOIL STOCKPILE SHALL BE STABILIZED WITHIN THE 14 DAY PERIOD. STABILIZATION MEASURES TO BE USED INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING AND STONE RIP RAP. DURING CONSTRUCTION, RUNOFF SHALL BE DIVERTED AROUND THE SITE WITH EARTH DICES, PIPING, OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE SHALL BE PROVIDED WITH BARRIER FENCES. STONE RIP RAP SHALL BE PROVIDED AT THE OUTLETS OF DRAINAGE PIPES WHERE EROSION VELOCITIES ARE ENCOUNTERED.

TIMING OF CONTROL MEASURES

AS INDICATED ABOVE IN THE CONSTRUCTION SEQUENCE SCHEDULE, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT FENCES AND HAY BALE BARRIERS AND ANY EARTH DICES WILL BE REMOVED ONCE PERMANENT MEASURES AND STABILIZATION ARE ESTABLISHED.

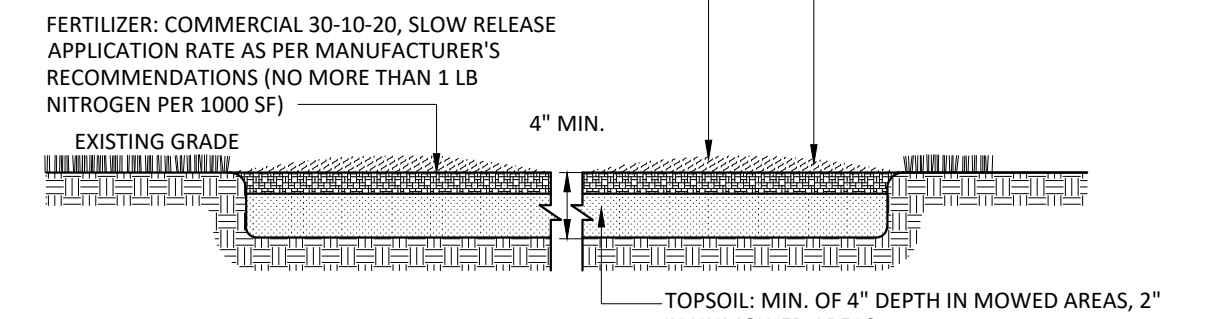
GENERAL INSPECTION AND MAINTENANCE PRACTICE

THESE ARE THE GENERAL INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO IMPLEMENT THE PLAN DURING CONSTRUCTION.

1. THE SMALLEST PRACTICAL PORTION OF THE SITE WILL BE DISTURBED AT ONE TIME.
2. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK.
3. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
4. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.

INSTALLATION NOTES

1. TEMPORARY SEEDING SHOULD BE MADE WITHIN 24 HOURS OF CONSTRUCTION OR DISTURBANCE. IF NOT, THE SOIL MUST BE SCARIFIED PRIOR TO SEEDING.
 2. IN ORDER FOR MULCH TO BE EFFECTIVE IT MUST BE PLACED PRIOR TO MAJOR STORM EVENTS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
 3. THE TIME PERIOD TO MULCH CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY ON AN AREA. THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. PROFESSIONAL JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL FERTILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS IN ORDER TO CHOOSE AN APPROPRIATE TIME PROTECTION.
 4. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT THE RATE OF 5,000 LBS OF HAY OR STRAW PER ACRE. A TACKLER MAY BE ADDED TO THE MULCH.
- SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. (REFER TO CONSTRUCTION SEQUENCING SCHEDULE IN SWPPP REPORT FOR FURTHER INFORMATION).

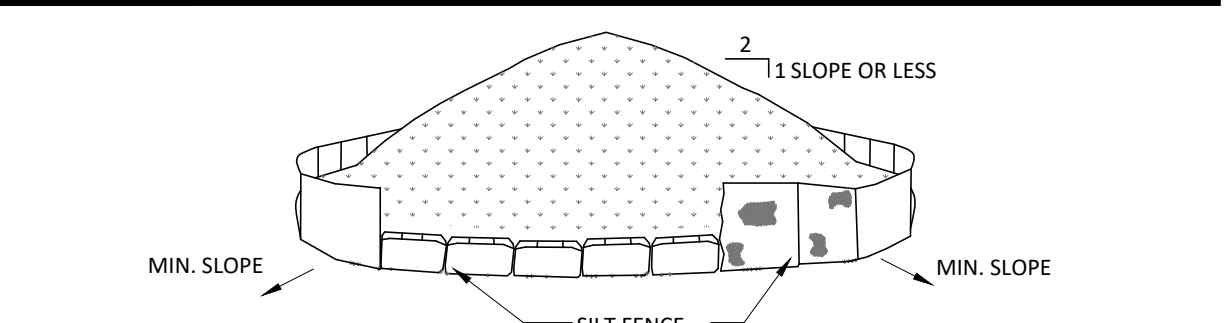


- SEEDING NOTES:
1. PROVIDE FRESH, CLEAN, NEW SEED COMPLYING WITH ESTABLISHED TOLERANCES FOR GERMINATION AND PURITY IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE LATEST EDITION OF THE FEDERAL SEED ACT. SEED SHALL BE MIXED BY THE DEALER AND SHALL BE DELIVERED TO THE SITE IN SEALED CONTAINERS WHICH SHALL BEAR THE DEALER'S GUARANTEE ANALYSIS.
 2. SEED MIXTURES:
FOR TEMPORARY SEEDING - OR - AREAS THAT WILL NOT BE MAINTAINED:
RAPIDLY GERMINATING ANNUAL RYEGRASS: 100 LBS PER ACRE
PERENNIAL RYEGRASS: 30 LBS PER ACRE
FOR USE ON LAWN AREAS (AREAS TO BE MAINTAINED):
ALTERNATE A (SUNNY SITE)
65% KENTUCKY BLUE GRASS BLEND: 85-114 LBS PER ACRE
20% PERENNIAL RYEGRASS: 26-35 LBS PER ACRE
15% FINE FESCUE: 19-26 LBS PER ACRE
TOTAL: 130-175 LBS PER ACRE
ALTERNATE B (SHADY SITE)
80% KENTUCKY BLUE GRASS BLEND*: 105-138 LBS PER ACRE
20% PERENNIAL RYEGRASS: 25-37 LBS PER ACRE
TOTAL: 130-175 LBS PER ACRE
*SHADE TOLERANT
 3. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDRO SEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDRO SEEDING.
 4. MULCH SEEDING AREAS WITH STRAW MULCH (2000 LBS PER ACRE).
 5. IRRIGATE TO FULLLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.
 6. SEED BETWEEN MAY 1ST AND MAY 15TH OR AUGUST 15TH AND OCTOBER 15TH. SEEDING MAY OCCUR BETWEEN MAY 15TH AND AUGUST 15TH IF ADEQUATE IRRIGATION IS PROVIDED.

- TOPSOIL APPLICATION NOTES:
1. TOPSOIL SHALL BE DISTURBED TO A UNIFORM DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTIALLY FROZEN, MUDDY OR ON FROZEN SLOPES OVER ICE, SNOW OR STANDING WATER.
 2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDING AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.
 3. APPLY TOPSOIL IN THE FOLLOWING AMOUNTS FOR INTENDED USE:
MOWED LAWN: 4-8 INCHES
UNMOWED AREA: 2-4 INCHES
COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
 4. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

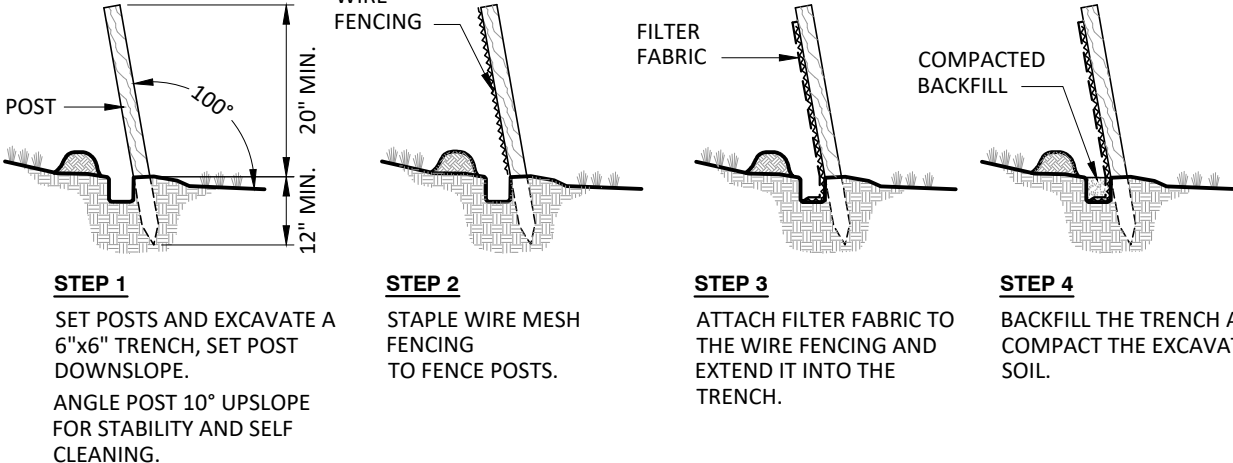
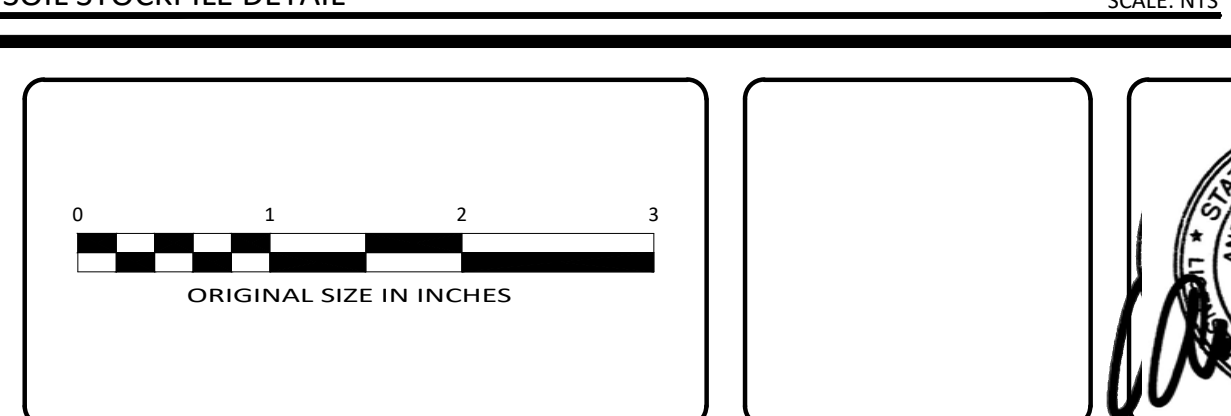
- TOPSOIL MATERIAL NOTES:
- THE FURNISHINGS OF NEW TOPSOIL SHALL BE OF A BETTER OR EQUAL QUALITY OF THE EXISTING ADJACENT TOPSOIL AND SHALL MEET THE FOLLOWING CRITERIA:
- TOPSOIL SHALL HAVE AT LEAST 2%, BUT NOT MORE THAN 6% BY WEIGHT OF FINE TEXTURED STABLE ORGANIC MATERIAL.
 - TOPSOIL SHALL HAVE NOT LESS THAN 20% FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15% CLAY.
 - TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1" DIAMETER, THRASH, NOXIOUS WEEDS, AND WILL HAVE LESS THAN 10% GRAVEL BY VOLUME.
- INSPECTION & MAINTENANCE NOTES:
1. TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.
 2. TEMPORARY SEEDINGS SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM. (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.)
 3. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE APPLIED IMMEDIATELY.
 4. AERATE COMPACTED OR HEAVY USED AREAS, ANNUALLY AS SOON AS THE SOIL MOISTURE CONDITIONS PERMIT. AERATE AREA 6 TO 8 TIMES USING A SPOON HOLLOW TINE TYPE AERATION. DO NOT USE SPIKE EQUIPMENT.
 5. RESEED BARE AND THIN AREAS ANNUALLY WITH ORIGINAL SPECIES.
 6. SOIL SHALL MAINTAIN A pH OF 6.0-7.0.

TOPSOIL, SEED AND MULCH DETAIL



- SPECIFICATION AND INSTALLATION NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES AND STABILIZED WITH VEGETATION OR COVERED.
 4. SEE SPECIFICATIONS ON INSTALLATION OF SILT FENCE.
- INSPECTION & MAINTENANCE NOTES:
1. SOIL AND TOPSOIL STOCKPILE SHOULD BE SEEDING IF THEY ARE TO REMAIN DORMANT FOR 30 DAYS.
 2. SEE SILT FENCE DETAIL FOR MAINTENANCE AND INSPECTIONS.

SOIL STOCKPILE DETAIL

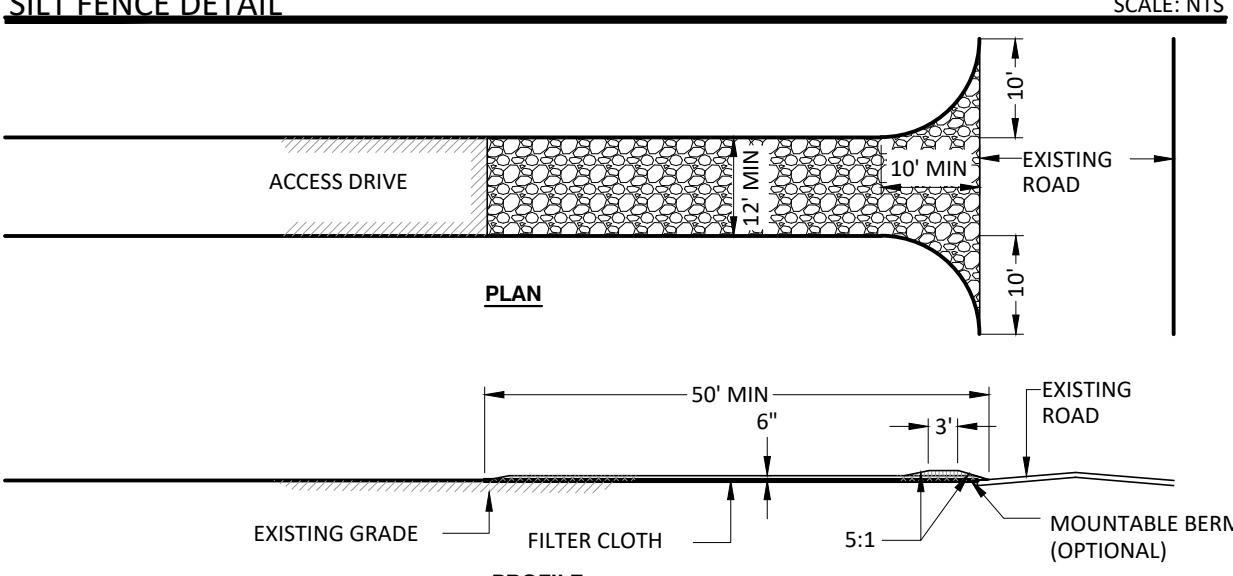


- MATERIAL NOTES:
1. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES TO 120 DEGREE F. SYNTHETIC FILTER FABRIC SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIERS AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

FABRIC PROPERTIES	MIN. ACCEPTED VALUE	TEST METHOD
GRAB TENSILE STRENGTH (lbs)	90	ASTM D1682
ELONGATION FAILURE AT (%)	50	ASTM D1682
MULLEN BURST STRENGTH (PSI)	190	ASTM D3786
PUNCTURE STRENGTH (lbs)	40	ASTM D751 (MODIFIED)
SLURRY FLOW RATE (gal/min/sf)	0.3	
EQUIVALENT OPENING SIZE	40-80	US STD SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY (%)	90	ASTM G-26

2. THE HEIGHT OF THE SILT FENCE SHALL NOT EXCEED 36 INCHES.
 3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A 6 INCH OVERLAP MINIMUM AND SHALL BE SECURELY SEALED.
- INSTALLATION NOTES:
1. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE (1) INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND NO MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACES.
 2. THE "STANDARD STRENGTH" FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND EIGHT (8) INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 3. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS APPLYING.
 4. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 5. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND.

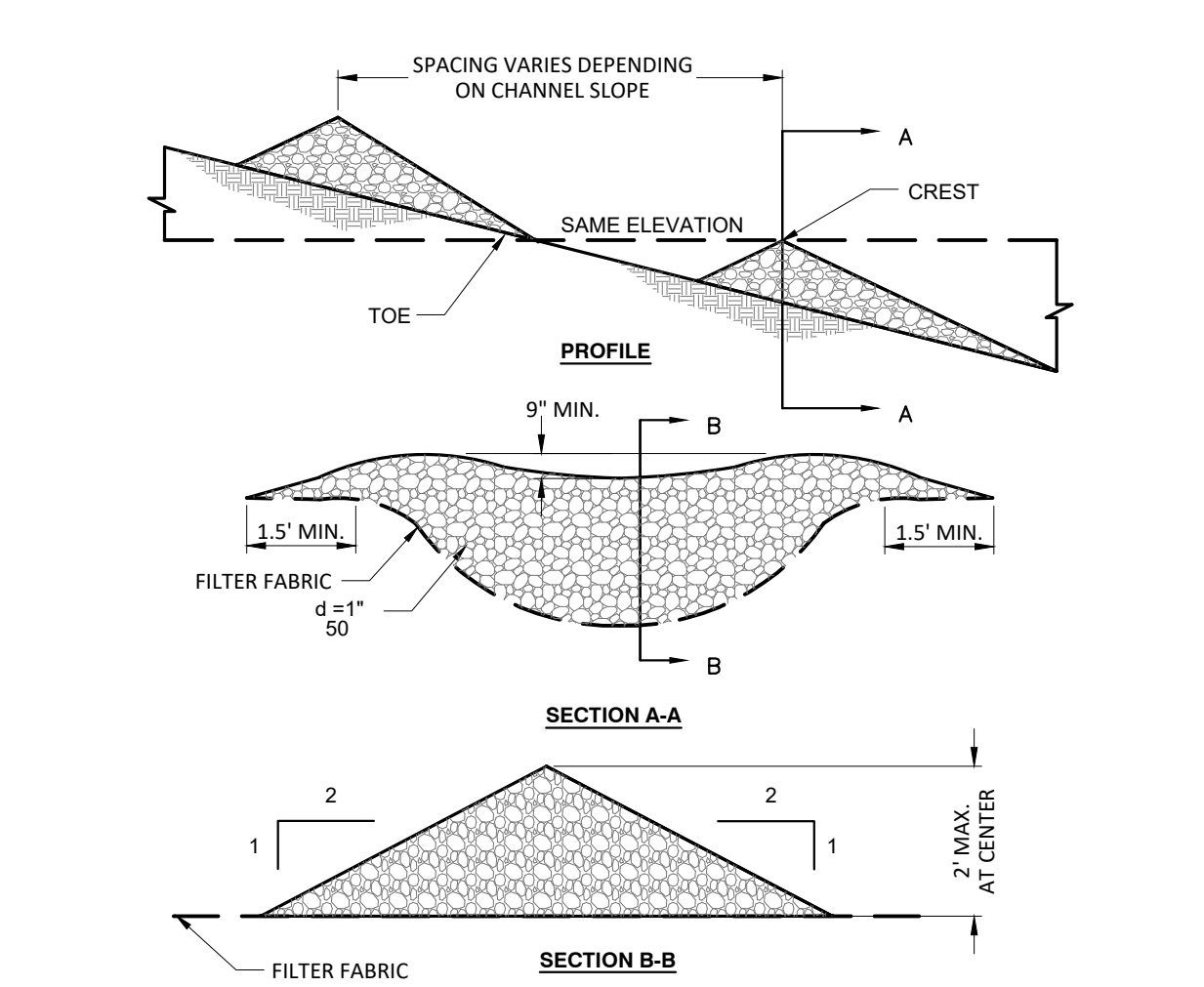
- INSPECTION AND MAINTENANCE NOTES:
1. STRAW BALE BARRIER AND SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE WITHIN 24 HOURS OF CONTRACTOR NOTIFICATION. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
 2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) THE HEIGHT OF THE BARRIER.
 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED, AND SEED.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" IN THE SILT FENCES DEVELOP.



- SPECIFICATIONS AND INSTALLATION NOTES:
1. PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AT THE PROJECT SITE, STABILIZED CONSTRUCTION ENTRANCED SHALL BE CONSTRUCTED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS.
 2. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 3. THICKNESS - NOT LESS THAN 6 INCHES.
 4. WIDTH - 12 FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 5. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
 6. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. THE FILTER CLOTH SHALL BE WOVEN.
 7. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

- INSPECTION & MAINTENANCE NOTES:
1. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAINFALL.
 2. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ON TO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATERWAYS.

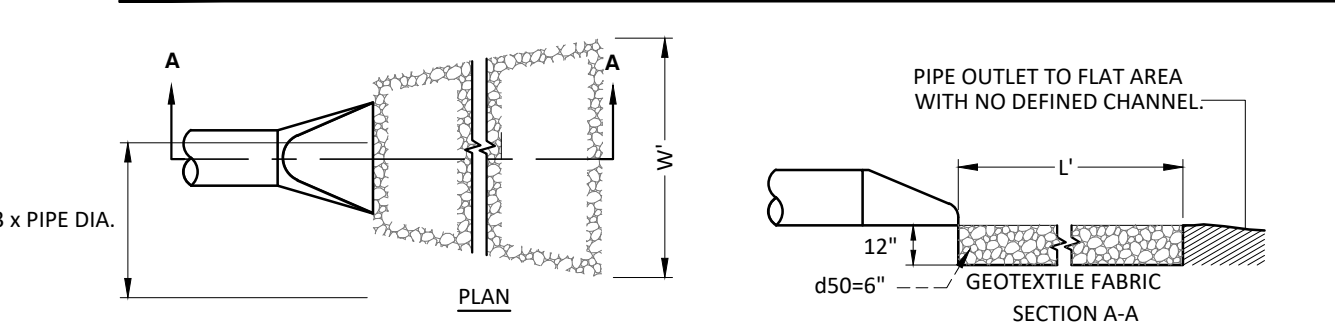
STABILIZED CONSTRUCTION ENTRANCE DETAIL



- SPECIFICATIONS AND INSTALLATION NOTES:
1. STONE SHALL BE PLACED ON A FILTER FABRIC FOUNDATION.
 2. SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS THE SAME AS THE TOE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCE SUCH AS CULVERT ENTRANCED BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

- INSTALLATION AND MAINTENANCE NOTES:
1. THE CHECK DAMS SHALL BE INSPECTED PERIODICALLY. CONTRACTOR SHALL CORRECT THE DAMAGE WITHIN 24 HOURS OF NOTIFICATION.
 2. REMOVE SEDIMENT ACCUMULATED BEHIND DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM.
 3. REPLACE STONE AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES.

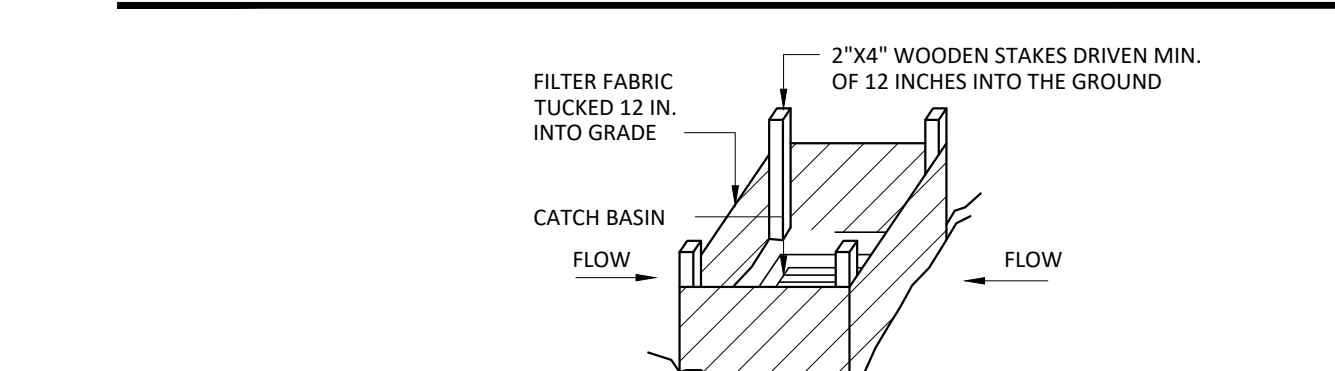
STONE CHECK DAM DETAIL



- SPECIFICATIONS AND INSTALLATION NOTES:
1. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE SUITABLY COMPACTED.
 2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS.
 3. FILTERING CLOTH SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN THE OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE CLOTH. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF CLOTH SHALL BE A MINIMUM OF 1 FOOT.
 4. STONE FOR RIP RAP MAY BE PLACED BY EQUIPMENT. IT SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE RIP RAP SHALL BE PLACED IN A MANNER THAT WILL INSURE THAT THE RIP RAP IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES FILLING THE VOIDS BETWEEN THE LARGER STONES. RIP RAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER CLOTH.

- INSPECTION & MAINTENANCE NOTES:
1. INSPECT THE STRUCTURE PERIODICALLY AND AFTER MAJOR STORM EVENTS.
 2. REPAIR OR REPLACE FAILING STRUCTURES IMMEDIATELY.
 3. CHECK CHANNEL FOR SCOUR OR DEBRIS AND LOSS OF ROCK FROM APRONS.

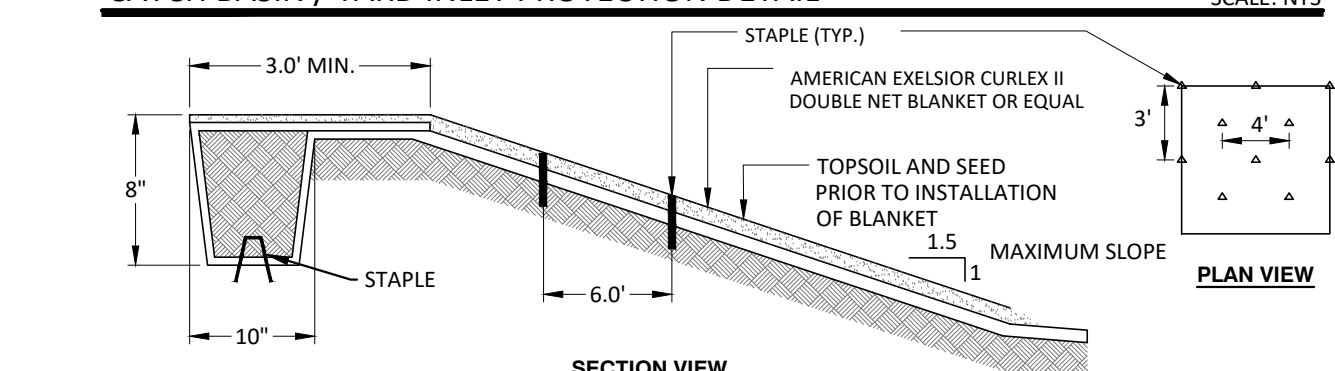
RIPRAP OUTLET PROTECTION DETAIL



- SPECIFICATIONS AND INSTALLATION NOTES:
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF CATCH BASIN OR YARD DRAIN AND BE MAINTAINED UNTIL UNTIL DRAINAGE AREA IS STABILIZED.
 2. REFER TO SILT FENCE DETAIL. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 3. STAKE MATERIALS WILL BE STANDARD 2X4 WOOD WITH A MINIMUM LENGTH OF 3 FEET.
 4. SPACE STAKES EVENLY AROUND INLET, 3 FEET APART AND DRIVE INTO THE GROUND A MINIMUM OF 18 INCHES. SPACES GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GRADE AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

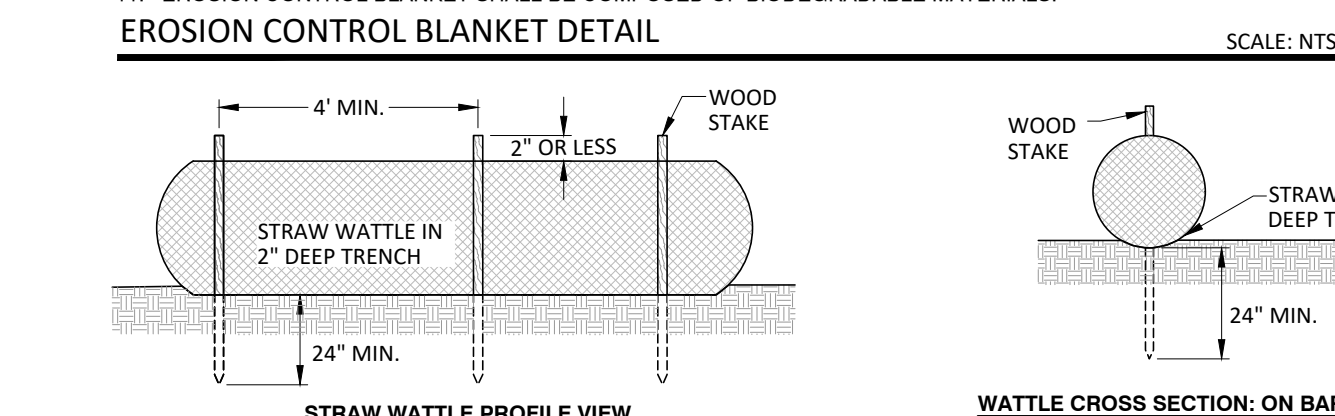
- INSPECTION & MAINTENANCE NOTES:
1. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER REACHING 1/3 OF THE HEIGHT OF THE FABRIC, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.
 2. THE INLET PROTECTION SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL, OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION.
 3. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING.
 4. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED WITHIN 24 HOURS OF CONTRACTOR NOTIFICATION.

CATCH BASIN / YARD INLET PROTECTION DETAIL



- NOTES:
1. GRADE AND COMPACT AREA OF INSTALLATION, REMOVING ALL ROCKS, VEGETATION, ETC.
 2. INSTALL TOPSOIL, SEED AND MULCH PER DETAIL.
 3. EXTEND BLANKET 2'-0" OVER CREST OF SLOPE AND EXCAVATE A 12"X6" TERMINAL ANCHOR TRENCH.
 4. ANCHOR BLANKET IN TRENCH WITH STAPLES @ SPACING PER MANUFACTURER, BACKFILL AND COMPACT SOIL.
 5. UNROLL BLANKET DOWN SLOPE.
 6. OVERLAP ADJACENT ROLLS AT LEAST 3' AND ANCHOR PER MANUFACTURER.
 7. LAY BLANKET LOOSE TO MAINTAIN DIRECT CONTACT WITH SOIL (DO NOT PULL TAUGHT).
 8. SECURE BLANKET TO GROUND SURFACE - STAPLES WITH PATTERN PER MANUFACTURER.
 9. TRIM TO BE STAPLED PARALLEL TO COUNTER.
 10. EROSION CONTROL BLANKET SHALL BE CURLEX DOUBLE NET (CURLEX II).
 11. EROSION CONTROL BLANKET SHALL BE COMPOSED OF BIODEGRADABLE MATERIALS.

EROSION CONTROL BLANKET DETAIL

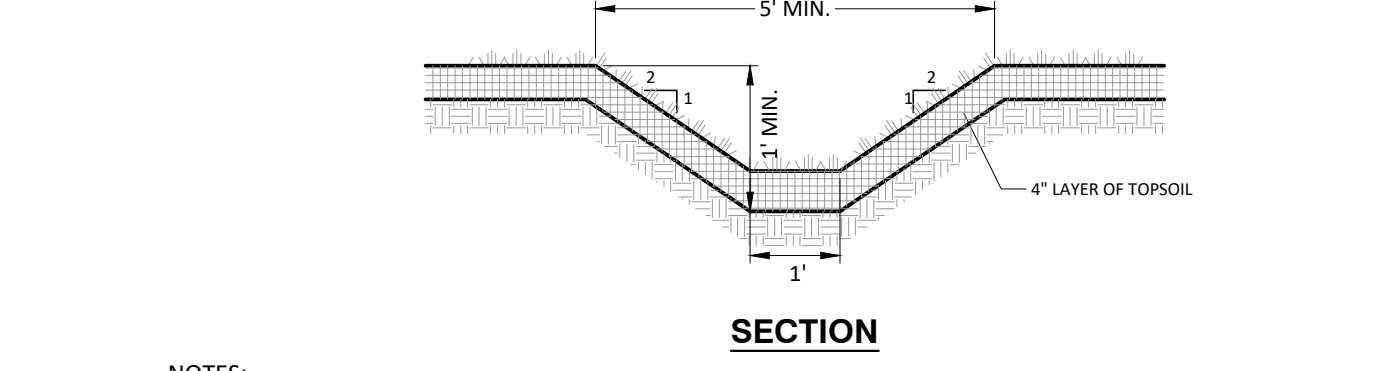


- MATERIAL NOTES:
1. WATTLES SHALL BE AMERICAN EXCELSIOR COMPANY'S PREMIER STRAW WATTLES OR APPROVED EQUAL.
 2. ORGANIC, AGRICULTURAL STRAW FIBERS MUST BE WEED FREE ENCASED IN POLYPROPYLENE OR FIBERNET.
 3. 75% OF FIBERS MUST BE A MINIMUM OF 4" LONG.
 4. NET OPENINGS MUST BE APPROXIMATELY 0.5" WIDE BY 1.0" LONG.
 5. ALL COMPONENTS MUST BE BIODEGRADABLE.

- INSTALLATION NOTES:
1. INSTALL WATTLE IN A 2" DEEP TRENCH CONSTRUCTED ALONG THE CONTOUR, PERPENDICULAR TO THE SLOPE OR DIRECTION OF FLOW.
 2. ENDS OF WATTLES SHALL BE TURNED UP THE SLOPE SO AS TO RETAIN WATER AND PREVENT ITS RELEASE FROM THE END OF THE WATTLE.
 3. WATTLES SHALL BE GRADED TO THE SUBGRADE BY WOODEN STAKES SPACED EVERY FOUR LINEAL FEET ACROSS THE LENGTH OF THE WATTLE. STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE WATTLE AND INTO THE GROUND A MINIMUM OF 24" WITH LESS THAN TWO INCHES PROJECTING ABOVE THE TOP OF THE WATTLE. A STAKE SHALL BE PLACED WITHIN 2 FEET OF THE END OF THE WATTLE.
 4. IF WATTLES ARE JOINED TOGETHER BY BUTTING THE ENDS, TIE THE ENDS TOGETHER USING HEAVY TWINE OR PLASTIC LOCKING TIES.
 5. WHEN INSTALLING IN A CHANNEL BOTTOM, WATTLE INSTALLATION SHALL CONTINUE THREE FEET ABOVE THE ANTICIPATED HIGH WATER MARK.
 6. WATTLE SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS ARE PRESENT AND CAN SURVIVE ON THEIR OWN. WATTLES ARE NOT REMOVED AND WILL DEGRADE IN PLACE.

- INSPECTION AND MAINTENANCE NOTES:
1. STRAW WATTLES SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. THEY SHALL BE REPAIRED IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRS SHALL BE MADE WITHIN 24 HOURS OF CONTRACTOR NOTIFICATION. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
 2. SHOULD THE STRAW WATTLE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, IT SHALL BE REPLACED.
 3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF (1/2) THE HEIGHT OF THE BARRIER.
 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE WATTLE IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED, AND SEED.

STRAW WATTLE DETAIL



- NOTES:
1. STABILIZATION OF THE SWALE SHALL BE COMPLETED WITHIN 10 DAYS OF INSTALLATION.
 2. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO OUTLET.
 3. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 5. THE SWALE SHALL BE EXCAVATED OR SHAPED AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
 6. SWALE SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH TOPSOIL, SEED AND MULCH DETAIL.
 7. CONTRACTOR IS RESPONSIBLE FOR PERIODIC INSPECTION AND REQUIRED MAINTENANCE.
 8. ALL DRAINAGE SWALES SHALL BE KEPT FREE OF DEBRIS AND THE VEGETATION SHALL BE MAINTAINED TO ALLOW FLOW OF STORMWATER.

GRASS LINED DIVERSION SWALE DETAIL



- CONDITIONS WHERE PRACTICE APPLIES:
- WASHOUT FACILITIES SHALL BE PROVIDED FOR EVERY PROJECT WHERE CONCRETE WILL BE POURED OR OTHERWISE FORMED ON THE SITE. THIS FACILITY WILL RECEIVE HIGHLY ALKALINE WASH WATER FROM THE CLEANING OF CHUTES, MIXERS, HOPPERS, VIBRATORS, PLACING EQUIPMENT, TROWELS, AND SCREDS. UNDER NO CIRCUMSTANCES WILL WASH WATER FROM THESE OPERATIONS BE ALLOWED TO INFILTRATE INTO THE SOIL OR ENTER SURFACE WATERS.

DESIGN CAPACITY:

THE WASHOUT FACILITY SHOULD BE SIZED TO CONTAIN SOLIDS, WASH WATER, AND RAINFALL AND SIZED TO ALLOW FOR THE EVAPORATION OF THE WASH WATER AND RAINFALL. WASH WATER SHALL BE ESTIMATED AT 7 GALLONS PER CHUTE AND 50 GALLONS PER HOPPER OF THE CONCRETE PUMP TRUCK AND/OR DISCHARGING DUMP. THE MINIMUM SIZE SHALL BE 8 FEET BY 8 FEET AT THE BOTTOM AND 2 FEET IF EXCAVATED, THE SIDE SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION:

LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD. PROVIDE APPROPRIATE ACCESS WITH A GRAVEL ACCESS ROAD SLOPED DOWN TO THE STRUCTURE. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.

LINER:

ALL WASHOUT FACILITIES WILL BE LINED TO PREVENT LEACHING OF LIQUIDS INTO THE GROUND. THE LINER SHALL BE PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS, AND ANCHORED TO THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCE EXCEPT AT THE ACCESS POINT. IF PRE-FABRICATED WASHOUTS ARE USED THEY MUST ENSURE THE CAPTURE AND CONTAINMENT OF THE CONCRETE WASH AND BE SIZED BASED ON THE EXPECTED FREQUENCY OF CONCRETE POURS. THEY SHALL BE SITED AS NOTED IN THE LOCATION CHIEF.

- MAINTENANCE:
1. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHOULD BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.
 2. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE.
 3. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL. ON-SITE DISPOSAL MAY BE ALLOWED IF THIS HAS BEEN APPROVED AND ACCEPTED AS PART OF THE PROJECTS SWPPP. IN THAT CASE, THE MATERIAL SHOULD BE RECYCLED AS SPECIFIED, OR BURIED AND COVERED WITH A MINIMUM OF 2 FEET OF CLEAN COMPACTED EARTHILL THAT IS PERMANENTLY STABILIZED TO PREVENT EROSION.
 4. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
 5. INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

- CONCRETE WASHOUT FACILITY
- ON CONSTRUCTION ROADS, ACCESS POINTS, AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BUILDUP WHERE OFF-SITE DAMAGE MAY OCCUR IF DUST IS NOT CONTROLLED.

DESIGN CRITERIA:

- CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF VEGETATION SHOULD BE LEFT WHERE PRACTICAL. TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL BE INSTALLED. NO SPECIFIC DESIGN CRITERIA IS GIVEN; SEE CONSTRUCTION SPECIFICATIONS BELOW FOR COMMON METHODS OF DUST CONTROL.
- WATER QUALITY MUST BE CONSIDERED WHEN MATERIALS ARE SELECTED FOR DUST CONTROL WHERE THERE IS A POTENTIAL FOR THE MATERIAL TO WASH OFF TO A STREAM, INGREDIENT INFORMATION MUST BE PROVIDED TO THE NYSDC.

DESIGN CRITERIA:

- A. NON-DRIVING AREAS - THESE AREAS USE PRODUCTS AND MATERIALS APPLIED OR PLACED ON SOIL SURFACES TO PREVENT AIRBORNE MIGRATION OF SOIL PARTICLES.
- VEGETATIVE COVER - FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
- MULCH (INCLUDING GRAVEL MULCH) - MULCH OFFERS A FAST EFFECTIVE MEANS OF CONTROLLING DUST. THIS CAN ALSO INCLUDE ROLLED EROSION CONTROL BLANKETS.
- SPRAY ADHESIVES - THESE ARE PRODUCTS GENERALLY COMPOSED OF POLYMERS IN A LIQUID OR SOLID FORM THAT ARE MIXED WITH WATER TO FORM AN EMULSION THAT IS SPRAYED ON THE SOIL SURFACE WITH TYPICAL HYDROSEEDING EQUIPMENT. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC SOILS ON THE SITE. IN NO CASE SHOULD THE APPLICATION OF THESE ADHESIVES BE MADE ON WET SOILS OR IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS AND OTHERS WORKING WITH THE MATERIAL.
- B. DRIVING AREAS - THESE AREAS UTILIZE WATER, POLYMER EMULSIONS, AND BARRIERS TO PREVENT DUST MOVEMENT FROM THE TRAFFIC SURFACE INTO THE AIR.

- SPRINKLING - THE SITE MAY BE SPRAYED WITH WATER UNTIL THE SURFACE IS WET. THIS IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND ACCESS ROUTE TO PROVIDE SHORT TERM LIMITED DUST CONTROL.
- POLYMER ADDITIVES - THESE POLYMERS ARE MIXED WITH WATER AND APPLIED TO THE DRIVING SURFACE BY A WATER TRUCK WITH A GRAVITY FEED DRIP BAR, SPRAY BAR OR AUTOMATED DISTRIBUTOR TRUCK. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INCORPORATION OF THE EMULSION INTO THE SOIL WILL BE DONE TO THE APPROPRIATE DEPTH BASED ON EXPECTED TRAFFIC. COMPACTION AFTER INCORPORATION WILL BE BY VIBRATORY ROLLER TO A MINIMUM OF 95%. THE PREPARED SURFACE SHALL BE MOIST AND NO APPLICATION OF THE POLYMER WILL BE MADE IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS WORKING WITH THE MATERIAL.

- BARRIERS - WOVEN GEO-TEXTILES CAN BE PLACED ON THE DRIVING SURFACE TO EFFECTIVELY REDUCE DUST THROW AND PARTICLE MIGRATION ON HAUL ROADS. STONE CAN ALSO BE USED FOR CONSTRUCTION ROADS FOR EFFECTIVE DUST CONTROL.
- WINDBREAK - A SILT FENCE OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AT INTERVALS EQUAL TO TEN TIMES THE BARRIER HEIGHT. PRESERVE EXISTING WIND BARRIER VEGETATION AS MUCH AS PRACTICAL.

MAINTENANCE:

MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED.

DUST CONTROL NOTES

SCALE: NTS

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