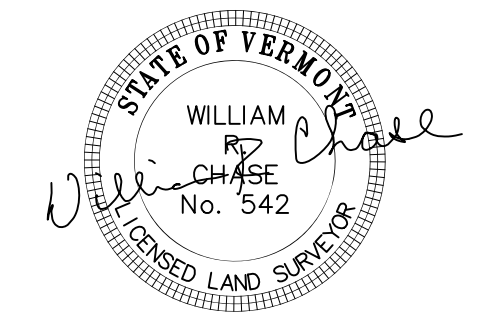
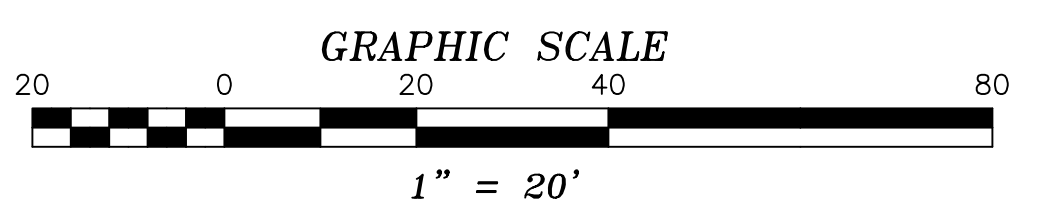
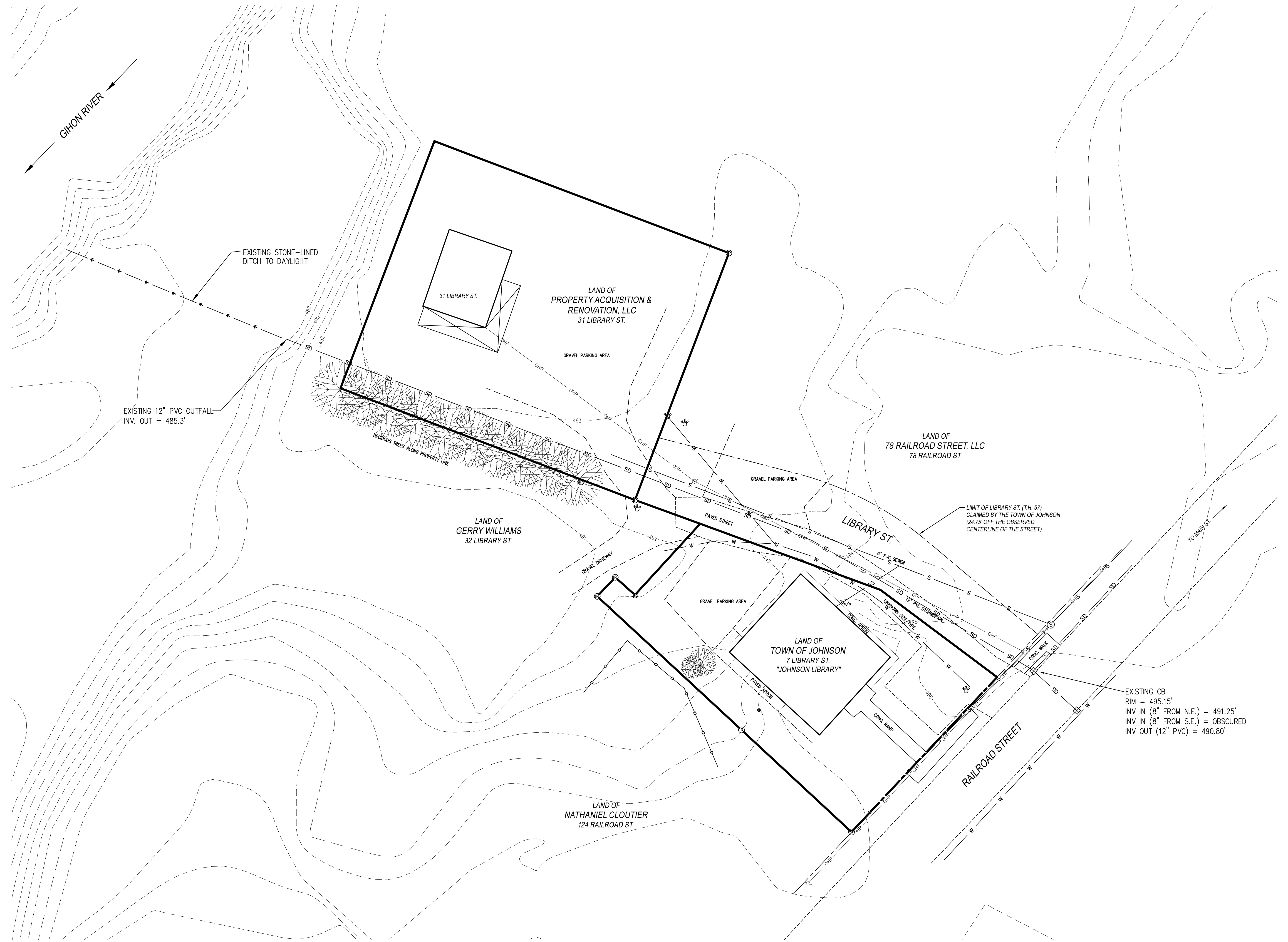


LEGEND

	ROAD RIGHT OF WAY LINE
	PROPERTY LINE
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	WOOD FENCE
	OVERHEAD UTILITY LINE
	IRON ROD FOUND (DIA. , HT.)
	IRON PIPE FOUND (DIA. , HT.)
	UTILITY POLE
	EXISTING 1' CONTOUR
	EXISTING 5' CONTOUR
	EXIST. SEWER MANHOLE
	EXIST. CATCHBASIN
	EXIST. CURB STOP/WATER SHUT-OFF
	W — W — WATER LINE (SIZE/TYPE NOT DETERMINED)
	S — S — EXIST. SEWER MAIN
	SS — SS — EXIST. SEWER SERVICE LINE
	SD — SD — EXIST. STORMDRAIN LINE

NOTES:

1. THE PROPERTY LINE SHOWN HEREON ARE BASED ON A PLAN ENTITLED "TOTAL STATION SUBDIVISION SURVEY FOR THE JOHNSON LIBRARY TRUSTEES" DATED MAY 13, 2008 BY CARROL PETERS AS RECORDED IN MAP SLIDE 126 OF THE JOHNSON LAND RECORDS.
2. THE VERTICAL DATUM IS NAVD 1988 AS DETERMINED FROM CORRECTED, DUAL-FREQUENCY GPS OBSERVATIONS.
3. AT THE LOCATION OF UNDERGROUND UTILITIES ARE BASED ON MARKING BY THE TOWN OF JOHNSON, OCTOBER 2023 AND PLANS OF RECORD AND SHOULD BE CONSIDERED APPROXIMATE ONLY.



EXISTING CONDITIONS PLAN
PROPOSED STORMWATER IMPROVEMENTS
TOWN LIBRARY
JOHNSON, VERMONT

SCALE: 1" = 20'	DATE: 10/10/24	PROJ.# 23-134	DWG.# 134A
DRAWN BY: KJK	CHECKED BY: WRC	FB/PG. EFB	SHEET C1

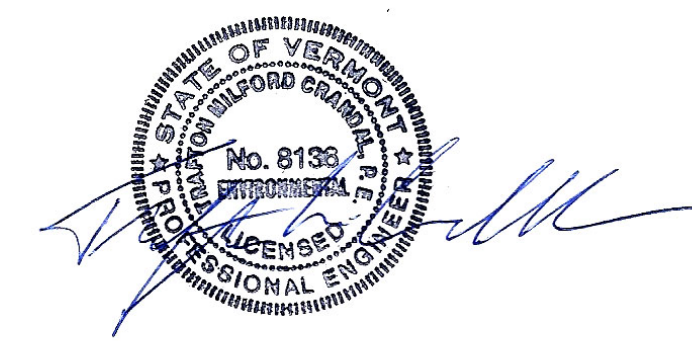
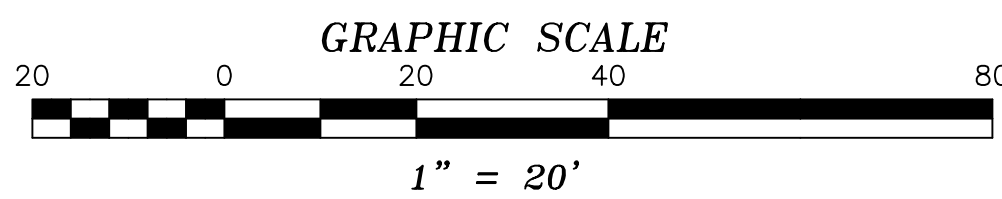
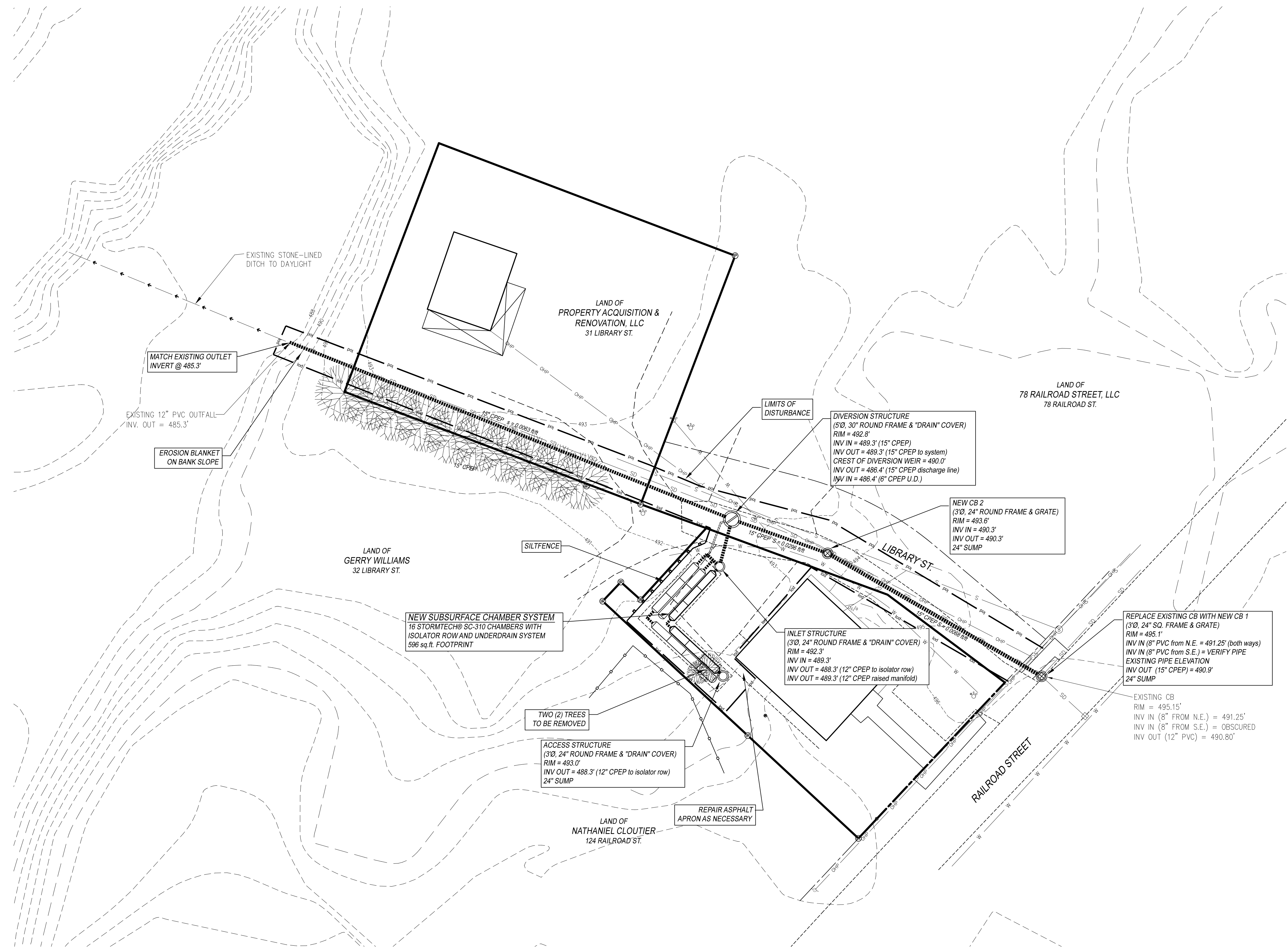
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LEGEND

- ROAD RIGHT OF WAY LINE
- PROPERTY LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- WOOD FENCE
- OHP— OHP— OVERHEAD UTILITY LINE
- ⊗ IRON ROD FOUND (DIA., HT.)
- ⊙ IRON PIPE FOUND (DIA., HT.)
- ⊙ UTILITY POLE
- XXX --- EXISTING 1' CONTOUR
- XXX --- EXISTING 5' CONTOUR
- ⊙ EXIST. SEWER MANHOLE
- ⊕ EXIST. CATCHBASIN
- ⊕ EXIST. CURB STOP/WATER SHUT-OFF
- W — W — WATER LINE (SIZE/TYPE NOT DETERMINED)
- S — S — EXIST. SEWER MAIN
- SS — SS — EXIST. SEWER SERVICE LINE
- SD — SD — EXIST. STORMDRAIN LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED UNDERDRAIN LINE

NOTES:

1. THE PROPERTY LINE SHOWN HEREON ARE BASED ON A PLAN ENTITLED "TOTAL STATION SUBDIVISION SURVEY FOR THE JOHNSON LIBRARY TRUSTEES" DATED MAY 13, 2008 BY CARROL PETERS AS RECORDED IN MAP SLIDE 126 OF THE JOHNSON LAND RECORDS.
2. THE VERTICAL DATUM IS NAVD 1988 AS DETERMINED FROM CORRECTED, DUAL-FREQUENCY GPS OBSERVATIONS.
3. AT THE LOCATION OF UNDERGROUND UTILITIES ARE BASED ON MARKING BY THE TOWN OF JOHNSON, OCTOBER 2023 AND PLANS OF RECORD AND SHOULD BE CONSIDERED APPROXIMATE ONLY.



SITE PLAN
PROPOSED STORMWATER IMPROVEMENTS
TOWN LIBRARY
LIBRARY STREET JOHNSON, VERMONT

SCALE: 1" = 20'	DATE: 10/24/24	PROJ.#: 23-134	DWG.#: 0134B
DRAWN BY: KJK	CHECKED BY: TC	FB/PG. EFB	SHEET C2

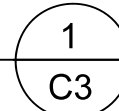
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CONSTRUCTION SPECIFICATIONS

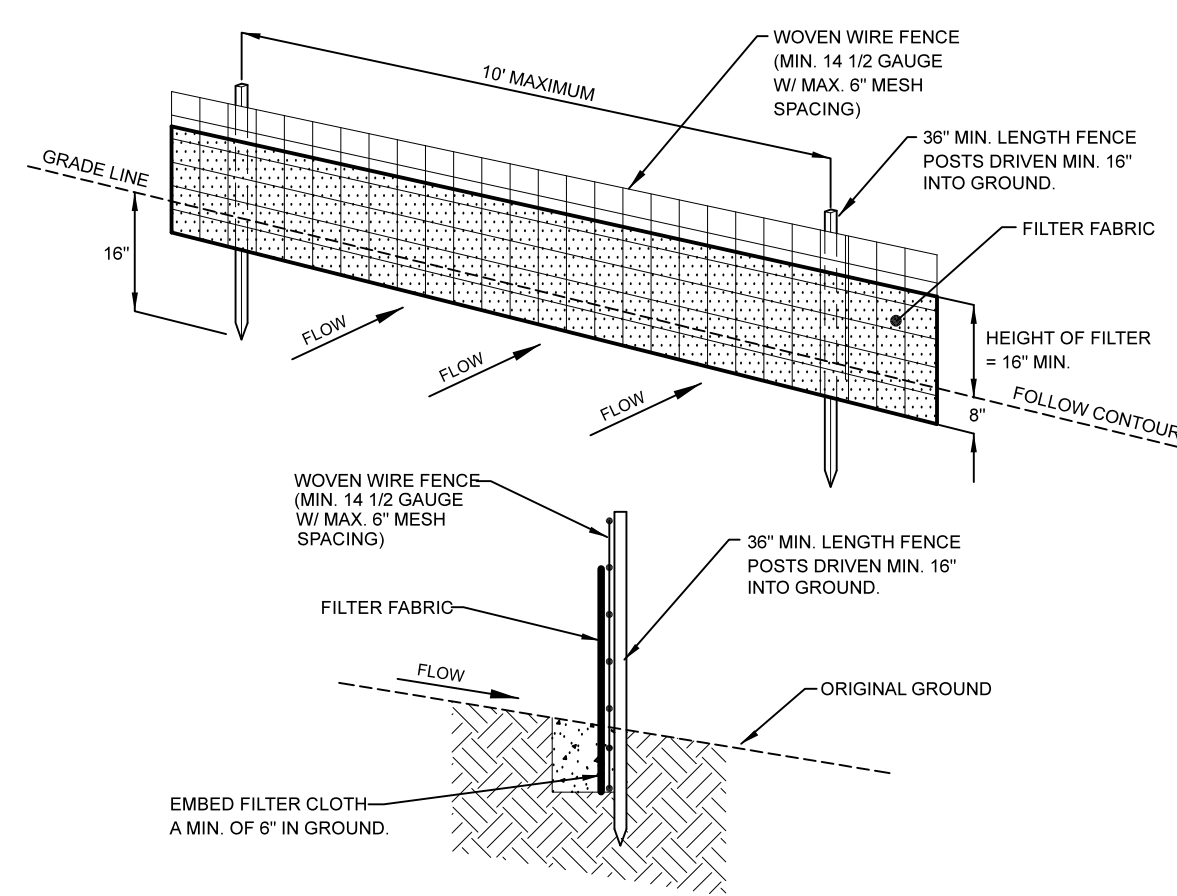
- LIMIT OF DISTURBANCE CORDON SHALL BE 3-FOOT HIGH ORANGE "CONSTRUCTION" SAFETY FENCE OR APPROVED EQUIVALENT, AND SHALL BE LOCATED AS SHOWN ON THE APPLICABLE PHASE PLAN.
- SAID FENCE SHALL BE SUPPORTED BY STEEL 'U' OR 'T' TYPE POSTS PLACED AT MAXIMUM 16-FOOT INTERVALS.
- FENCE SHALL BE WIRE OR 'ZIP' TIED TO THE SUPPORT POSTS.
- THE FENCE SHALL BE MAINTAINED IN A WORKMAN LIKE MANNER, AND SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS ACHIEVED.

DETAIL - LIMITS OF DISTURBANCE CORDON

NOT TO SCALE



NOTE: THE MATERIALS SHOWN IN THIS DETAIL APPLY TO SITE-BUILT SILT FENCE ONLY. PRE-FABRICATED SILT FENCE IS ACCEPTABLE WHEN INSTALLED IN THE MANNER SPECIFIED.

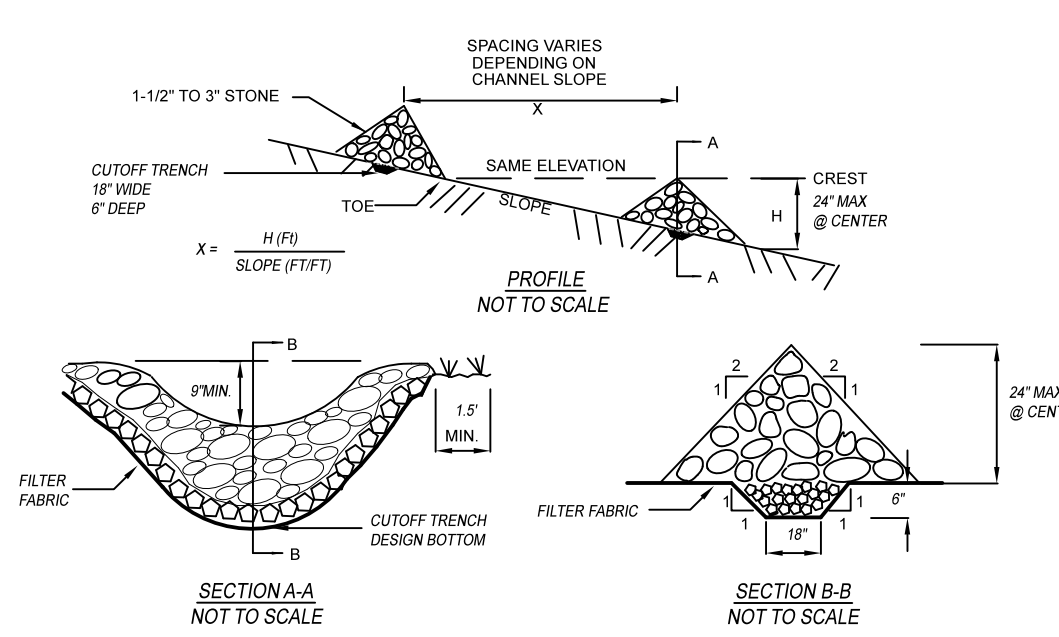
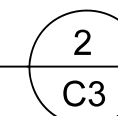


CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

DETAIL - SILT FENCE

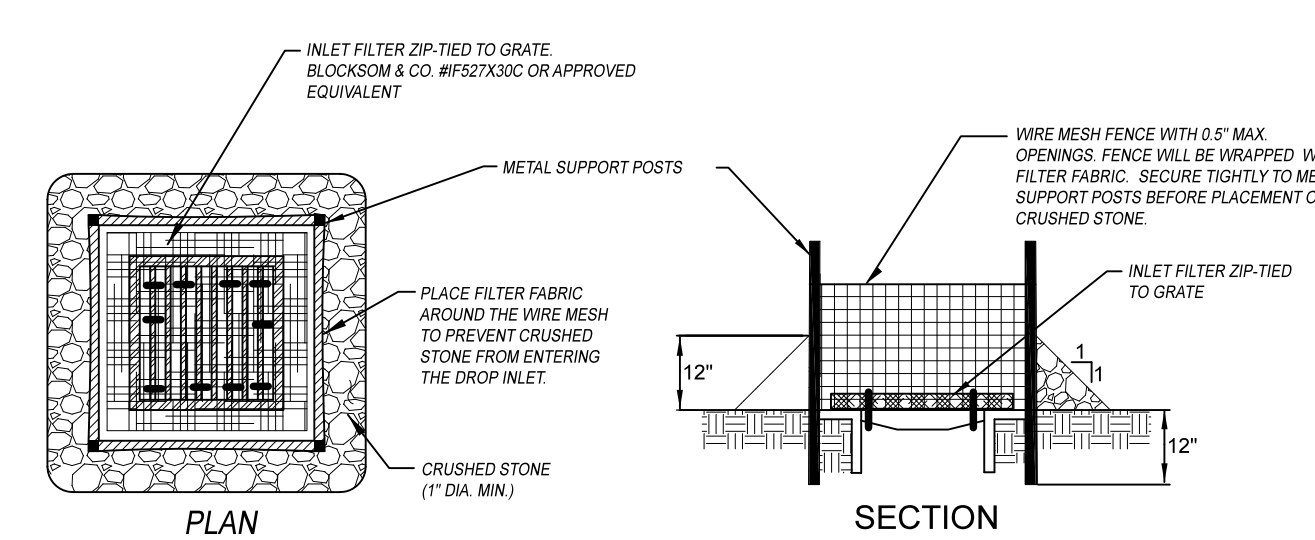
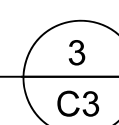
NOT TO SCALE



- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

DETAIL - TEMPORARY STONE CHECK DAM

NOT TO SCALE

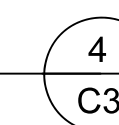


PLAN

- APPLICATION NOTES:**
- THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY PONDING WATER WHICH ALLOWS SEDIMENT TO FALL OUT OF SUSPENSION.
 - THESE EXAMPLES OF DROP INLET PROTECTION ARE NOT INTENDED FOR USE ON GRADES. ON GRADES THEY MAY CAUSE WATER TO BYPASS THE STRUCTURE, CREATING ADDITIONAL EROSION OR FLOODING.
 - POSSIBLE MODIFICATIONS FOR USE ON GRADE INCLUDE ADDING A BERM DOWNSTREAM OF THE INLET TO CREATE PONDING. CHECK DAMS MAY ALSO BE USED UPSTREAM OF THE INLET TO SLOW VELOCITIES.
 - PREFABRICATED DROP INLET PROTECTION SPECIFICATIONS SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

DETAIL - ROCK BARRIER INLET PROTECTION

NOT TO SCALE



EROSION CONTROL NOTES

TOTAL PROJECT DISTURBED AREA IS 8000 SQ.FT. THEREFORE NO CONSTRUCTION GENERAL PERMIT IS REQUIRED. THE PROJECT SHALL BE EXECUTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE STATE OF VERMONT "LOW-RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" (2020). THE CONTRACTOR SHALL INSTALL ALL MEASURES NECESSARY AS DICTATED BY THE WORKPLAN AND/OR WEATHER EVENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM LEAVING THE SITE.

GENERAL NOTES:

- CONTRACTOR SHALL INSTALL AND MAINTAIN ALL APPROPRIATE EROSION CONTROL MEASURES AS DICTATED BY THE STATE OF VERMONT "LOW-RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL", EFFECTIVE AUGUST 2020. REFER TO THE HANDBOOK, MANUFACTURERS SPECIFICATIONS AND THIS SHEET FOR DETAILS REGARDING THE IMPLEMENTATION OF THESE MEASURES.
- THE EROSION PREVENTION MEASURES SHOWN ON THIS PLAN, REPRESENT THE MINIMUM NECESSARY IN GOOD WEATHER CONDITIONS WITH A PROPERLY RUN SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM LEAVING THE SITE AND SHALL EMPLOY WHATEVER ADDITIONAL MEASURES ARE NECESSARY TO ACCOMMODATE THEIR WORK PLAN AND CHANGING WEATHER CONDITIONS.
- ALL AREAS MUST HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END EACH WORK DAY.
- ALL EROSION CONTROL MEASURES MUST BE INSPECTED AT A FREQUENCY OF EVERY 7 DAYS OR WITHIN 24 HOURS OF A PRECIPITATION EVENT SUFFICIENT TO CAUSE RUNOFF TO LEAVE THE SITE. ALL DAMAGED MEASURES SHALL BE REPLACED OR REPAIRED AS NECESSARY.
- MATERIAL MOVED OFF-SITE SHALL BE SUBJECT TO THE SAME EROSION PREVENTION REQUIREMENTS AS ON-SITE MATERIALS. PLACE IN AN UPLAND LOCATION, SURROUND WITH SILT FENCE, MULCH AND SEED IF NOT TO BE UNDISTURBED FOR MORE THAN 14 DAYS.
- ANY DEWATERING ACTIVITIES MUST DISCHARGE ONTO A STABLE VEGETATED SURFACE, INCORPORATE APPROPRIATE SEDIMENT REMOVAL MEASURES, AND DISCHARGE IN A LOCATION WHERE FLOW WILL NOT REINCORPORATE WITH DISTURBED AREAS.

SPECIFIC MEASURES:

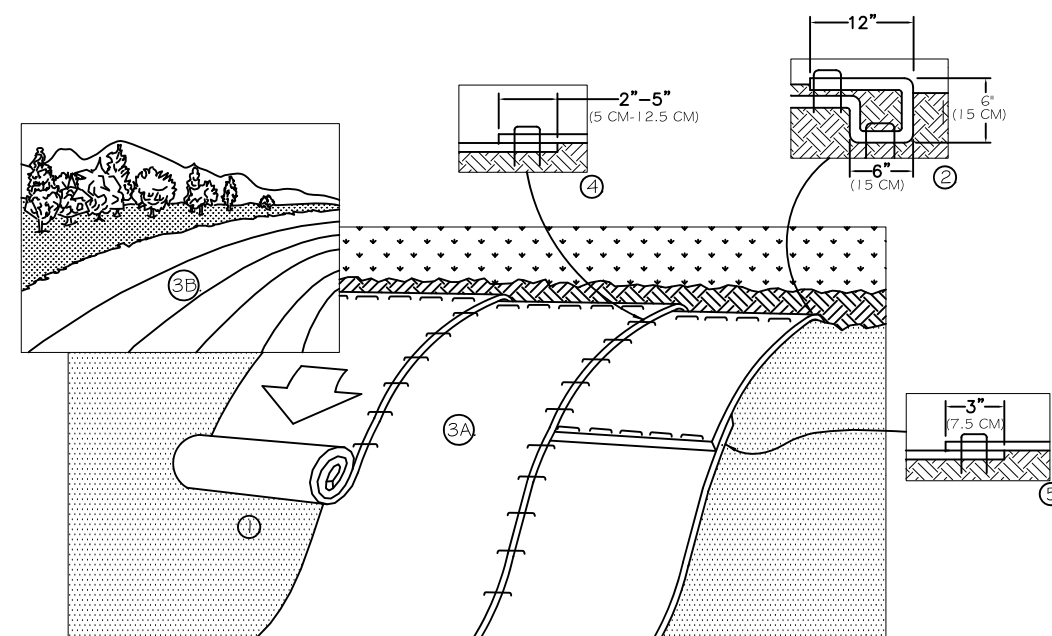
- THE LIMITS OF THE AREA TO BE DISTURBED SHALL BE SURROUNDED WITH CORDON OR SILT FENCE.
- SILT FENCE SHALL BE INSTALLED AT THE DOWNSLOPE LIMITS OF THE PROPOSED DISTURBANCE AND PLACED SO AS NOT TO CONCENTRATE RUNOFF.
- STONE INLET/OUTFALL PROTECTION SHALL BE INSTALLED IN CONJUNCTION WITH STORMWATER PRACTICES.
- AT PROJECT COMPLETION, DISTURBED SLOPES IN EXCESS OF 3H:1V SHALL HAVE EROSION PREVENTION BLANKET INSTALLED PER MANUFACTURERS SPECIFICATIONS AND BE "TRACKED" IN PLACE WITH A CLEATED MACHINE.
- AT PROJECT COMPLETION, ALL NEW OR DISTURBED CHANNELS SHALL HAVE EROSION PREVENTION BLANKET INSTALLED PER MANUFACTURERS SPECIFICATIONS.

STABILIZATION NOTES

- HAY MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS AT 2 TONS PER ACRE.
 - SOIL MATERIAL PILES SHALL BE MULCHED AND RINGED WITH SILT FENCE.
 - DISTURBED SOILS TO BE STABILIZED AS FOLLOWS:
- | CHANNEL SLOPE | LINING |
|---------------|--------------------------------------|
| 1% TO 5% | NORTH AMERICAN GREEN S150BN |
| SIDE SLOPE | LINING |
| < 3:1 | HAY MULCH ONLY |
| = or > 3:1 | NORTH AMERICAN GREEN S150BN OR EQUAL |
- (NOTE: NO SLOPES GREATER THAN 2:1 ARE PROPOSED)
- LIME MAY BE APPLIED TO ACHIEVE SOIL Ph OF 6.5 FOR AREAS TO BE SEEDED.
 - APPLY PHOSPHOROUS-FREE COMMERCIAL FERTILIZER AT 1.0 LBS/1,000 S.F. IF REQUIRED.
 - LIME AND FERTILIZER SHALL BE MIXED THOROUGHLY INTO THE SEEDBED DURING SOIL PREPARATION.
 - ALL DISTURBED AREA SHALL HAVE A MIN. OF 3" OF TOPSOIL PRIOR TO SEEDING.
 - SEED MIX: SEED MIX FOR TEMPORARY AND PERMANENT STABILIZATION SHALL BE VTRANS RURAL CONSERVATION MIX AND BE CLEAN MATERIALS GUARANTEED TO BE 95% FREE OF SEEDS OTHER THAN THOSE LISTED:

GRASS	% BY WEIGHT
CREeping RED FESCUE	35%
TURF-TYPE TALL FESCUE	25%
KENTUCKY BLUE GRASS	10%
TURF-TYPE PERENNIAL RYEGRASS	12%
ANNUAL RYE GRASS	15%
WHITE CLOVER	3%

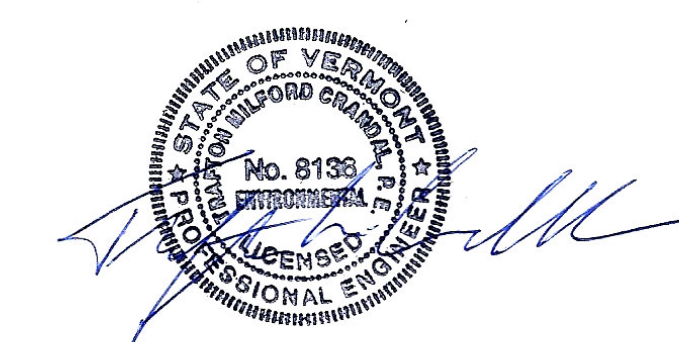
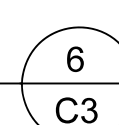
NOTE: WHERE SLOPES DO NOT EXCEED 3H:1V, MULCH MAY BE APPLIED IN LIEU OF EROSION PREVENTION BLANKET



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 4" (15 CM) DEEP BY (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" - 6" (5 CM - 12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
 - CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

DETAIL - EROSION CONTROL BLANKET - SLOPE INSTALL

NOT TO SCALE



EROSION CONTROL DETAILS
PROPOSED STORMWATER IMPROVEMENTS
TOWN LIBRARY
LIBRARY STREET JOHNSON, VERMONT

SCALE: AS NOTED	DATE: 10/24/24	PROJ.# 23-134	DWG.# 134D
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