

CALN TOWNSHIP

CHESTER COUNTY, PENNSYLVANIA

BARLEY SHEAF SWALE RECONSTRUCTION CONSTRUCTION SET

UNDERGROUND UTILITY LINE PROTECTION ACT

ARRO CONSULTING, INC. HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. ACT 287 OF 1974 AS AMENDED BY ACT 50 OF 2017 OF THE PENNSYLVANIA LEGISLATURE, IT HAS COMPLIED WITH THE DESIGNER'S DUTIES PROVISIONS OF THE ACT IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS.

ARRO CONSULTING, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY OR ASSURANCE OR OTHERWISE GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID ACT FROM THE FACILITY OWNER, AS THE TERM FACILITY OWNER IS DEFINED IN THE ACT, AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE.

DATE: 1/14/2022 BY: ARRO CONSULTING, INC.

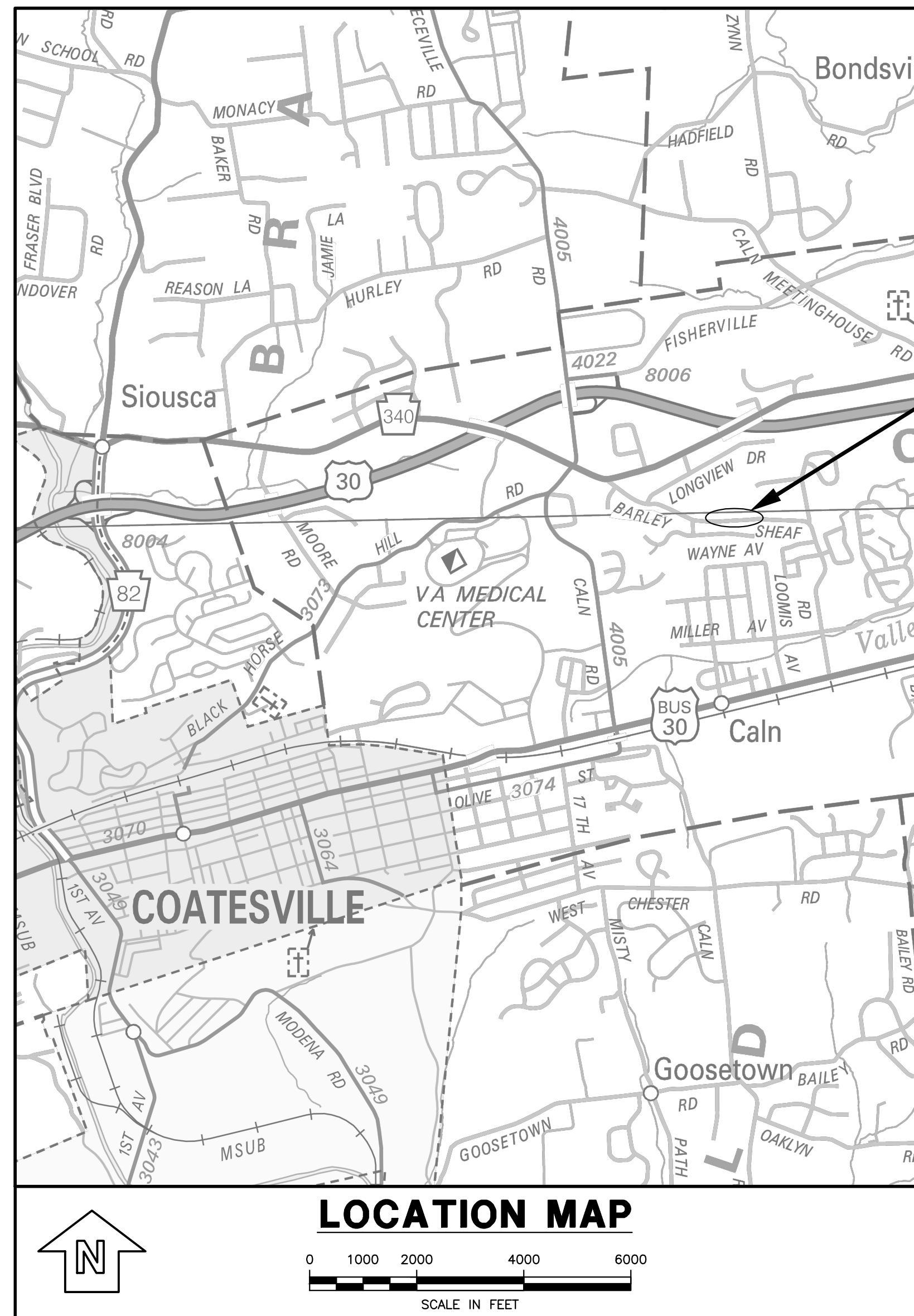
PA ONE CALL SERIAL NO: 20220140390



THE REFERENCED ACT REQUIRES NOTIFICATION BY DESIGNERS, CONTRACTORS, OR ANY OTHER PARTY INVOLVED IN DISTURBING THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

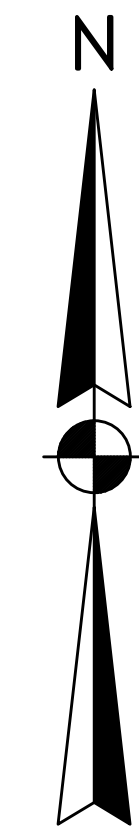
UTILITY LIST

COMPANY: CALN TOWNSHIP ADDRESS: 253 MUNICIPAL DR THORNDALE, PA. 19372 CONTACT: SCOT GILL EMAIL: sgill@calntownship.org	COMPANY: PENNSYLVANIA AMERICAN WATER ADDRESS: 100 CHESHIRE COURT STE 104 COATSVILLE, PA. 19320 CONTACT: GEORGE THOMAS EMAIL: GEORGE.THOMAS@AMWATER.COM
COMPANY: COMCAST ADDRESS: 1004 CORNERSTONE BLVD DOWNTOWN, PA. 19335 CONTACT: TOM RUSSO EMAIL: tom_russo@cable.comcast.com	COMPANY: VERIZON PENNSYLVANIA LLC ADDRESS: 1050 VIRGINIA DR FORT WASHINGTON, PA. 19034 CONTACT: DARLINE LEPPERD JOHNSON
COMPANY: PECO ENERGY C/O USIC ADDRESS: 450 S HENDERSON RD SUITE B KING OF PRUSSIA, PA. 19406 CONTACT: NIKKIA SIMPKINS EMAIL: NIKKIASIMPKINS@USICLLC.COM	



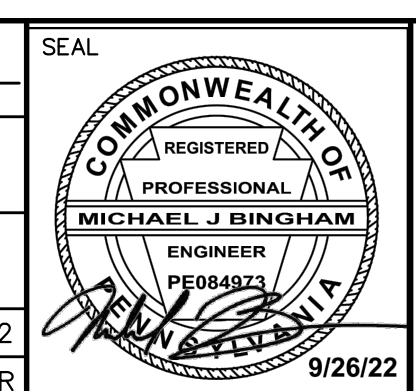
DRAWING INDEX	
SHEET NO	DESCRIPTION
1 OF 7	TITLE SHEET
2 OF 7	EXISTING FEATURES AND DEMOLITION BARLEY SHEAF ROAD SWALE
3 OF 7	PROPOSED FEATURES BARLEY SHEAF ROAD SWALE
4 OF 7	PROFILE BARLEY SHEAF ROAD SWALE
5 OF 7	EROSION AND SEDIMENTATION CONTROL PLAN BARLEY SHEAF ROAD SWALE
6 OF 7	EROSION AND SEDIMENTATION CONTROL DETAILS
7 OF 7	EROSION AND SEDIMENTATION CONTROL NOTES

										MICHAEL J. BINGHAM, P.E. RELEASED BY DESIGN BCU CHECKED DRAWN KLL CHECKED DATE SEPTEMBER 2022 SURVEY DATE FEB 2022 FIELD BOOK WEBER		SEAL 		CLIENT & PROJECT CALN TOWNSHIP 253 MUNICIPAL DRIVE, PO BOX 72149 THORNDALE, PA 19372 BARLEY SHEAF SWALE RECONSTRUCTION CALN TOWNSHIP, CHESTER COUNTY, PA				TITLE SHEET		SCALE AS SHOWN PROJECT NO. 11193.60 SHEET NO. 1 OF 7 REV. S-4590	
NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.												



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

MICHAEL J. BINGHAM, P.E.	
DESIGN	RELEASED BY
BCU	CHECKED
DRAWN	CHECKED
KLL	
DATE	SURVEY DATE
SEPTEMBER 2022	JAN 2022
	FIELD BOOK
	WEBER



SEAL

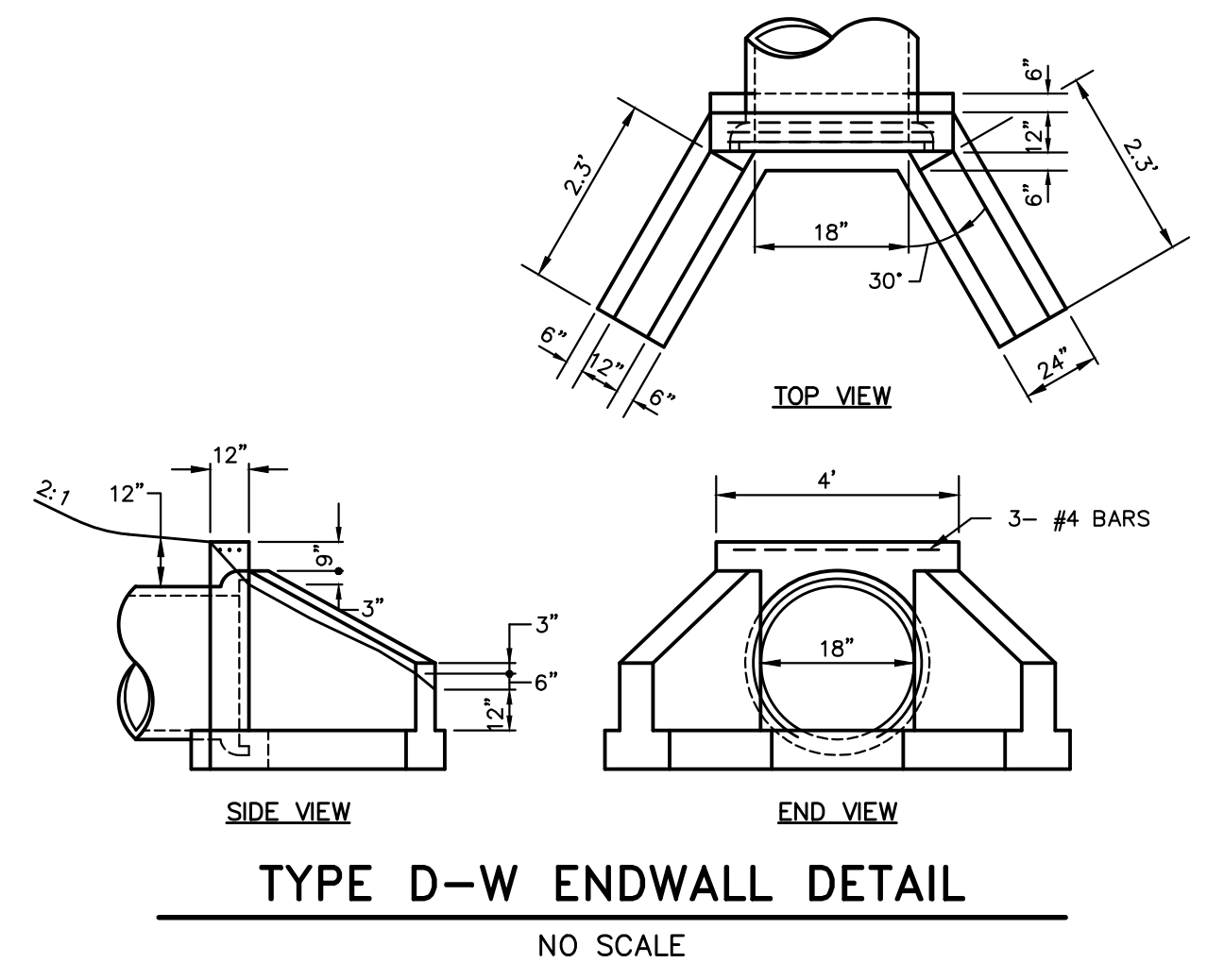
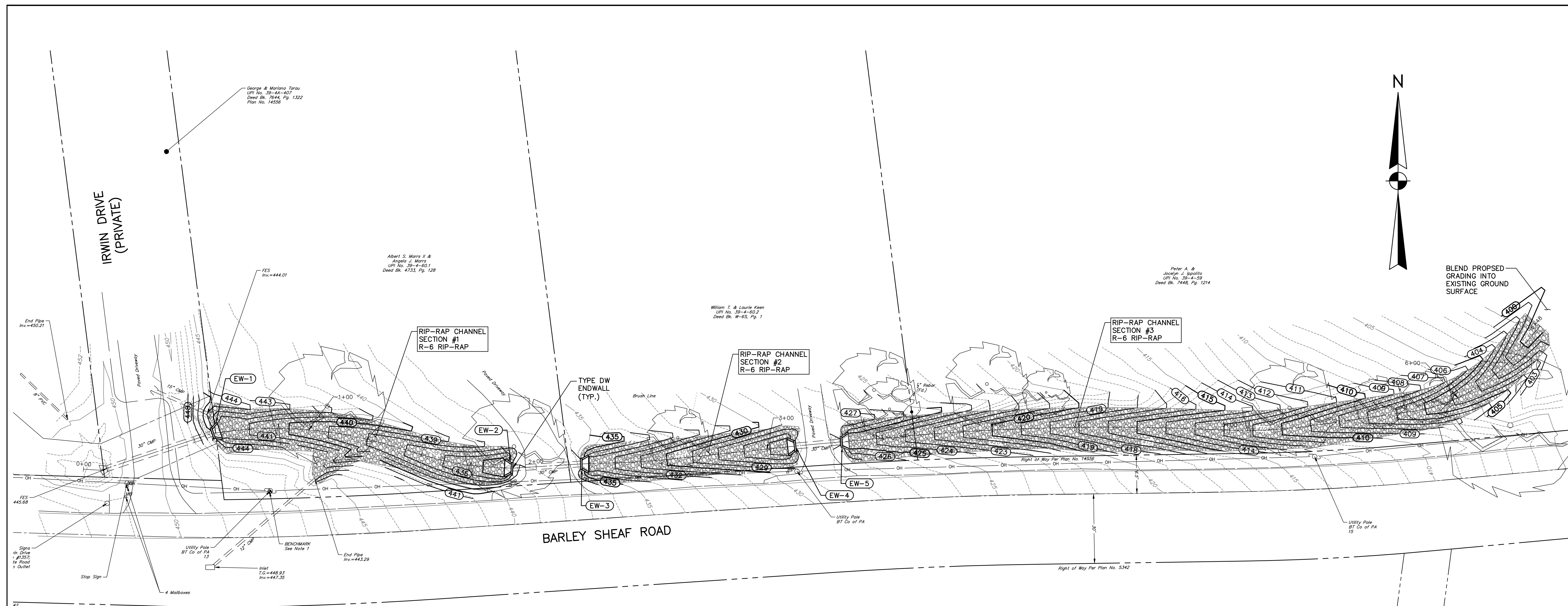
CLIENT & PROJECT

CALN TOWNSHIP
253 MUNICIPAL DRIVE, PO BOX 72149
THORNDALE, PA 19372

BARLEY SHEAF SWALE RECONSTRUCTION
CALN TOWNSHIP, CHESTER COUNTY, PA



TITLE		EXISTING FEATURES AND DEMOLITION BARLEY SHEAF ROAD SWALE	
SCALE	1"=20'	DWG. NO.	
PROJECT NO.	11193.60	SHEET NO.	2 OF 7
REV.		S-4590	



NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

MICHAEL J. BINGHAM, P.E.	
DESIGN	BCU
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DRAWN	KLL
CHECKED	
DATE	SEPTEMBER 2022
SURVEY DATE	JAN 2022
FIELD BOOK	WEBER

SEAL

SEAL

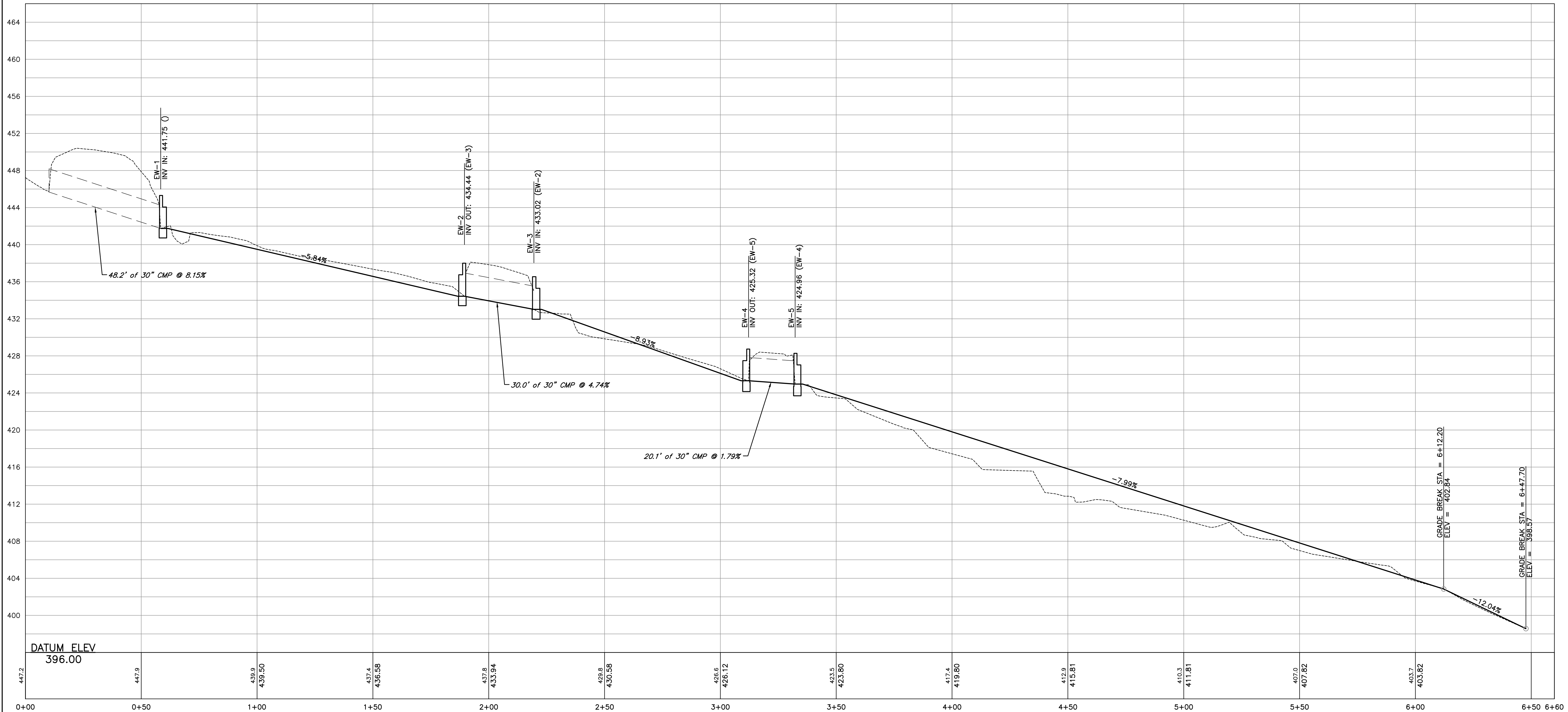
CLIENT & PROJECT

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THORNDALE, PA 19372

BARLEY SHEAF SWALE RECONSTRUCTION
CALN TOWNSHIP, CHESTER COUNTY, PA

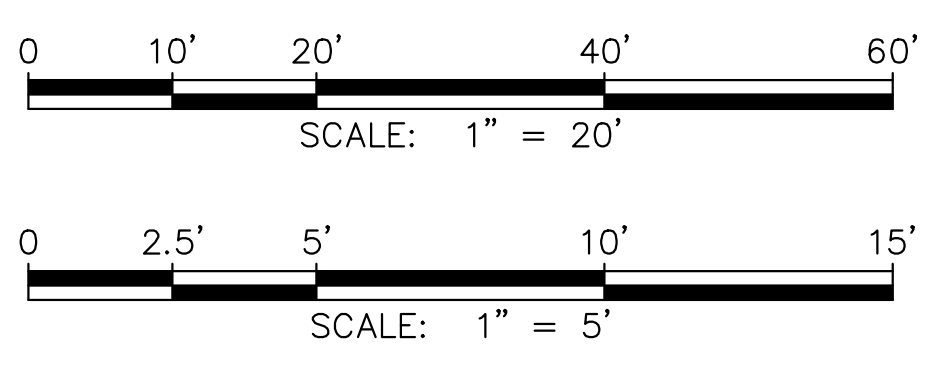
108 West Airport Road
Lititz, Pennsylvania 17543
Tel 717.569.7021

TITLE			
PROPOSED FEATURES BARLEY SHEAF ROAD SWALE			
SCALE	1"=20'	DWG. NO.	
PROJECT NO.	11193.60	SHEET NO.	3 OF 7
REV.		REV.	S-4590

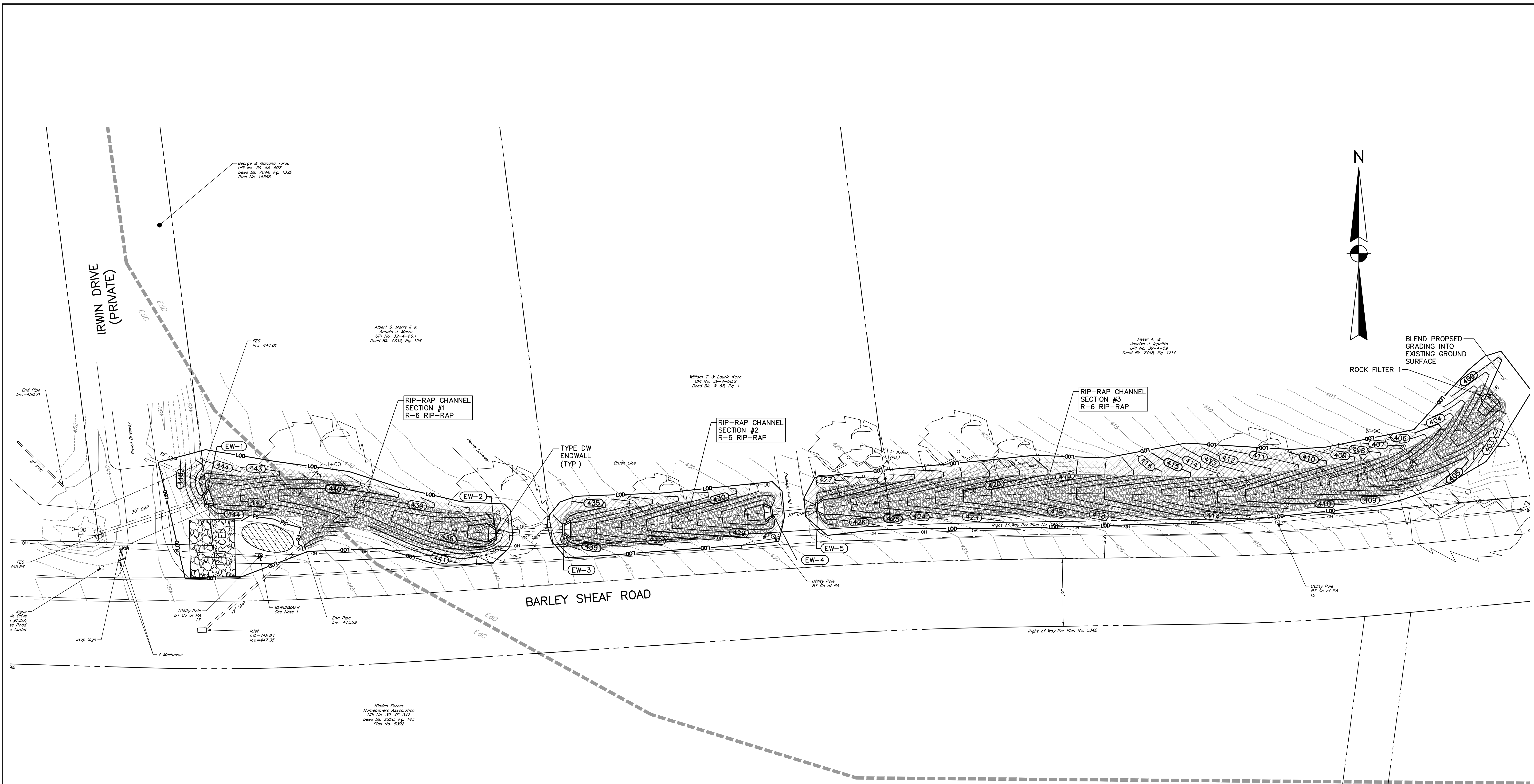


DATUM ELEV
396.00

447.2	447.9	439.9	439.50	437.4	436.58	437.8	433.94	428.8	430.58	426.6	426.12	423.5	423.80	417.4	419.80	412.9	415.81	410.3	411.81	407.0	407.82	403.7	403.82	400.0
0+00	0+50	1+00	1+50	2+00	2+50	3+00	3+50	4+00	4+50	5+00	5+50	6+00	6+50	6+60										



				MICHAEL J. BINGHAM, P.E. RELEASED BY DESIGN BCU DRAWN KLL DATE SEPTEMBER 2022				CHECKED CHECKED SURVEY DATE FEB 2022 FIELD BOOK WEBER		SEAL SEAL 9/26/22		CLIENT & PROJECT CALN TOWNSHIP 253 MUNICIPAL DRIVE, PO BOX 72149 THORNDALE, PA 19372 BARLEY SHEAF SWALE RECONSTRUCTION CALN TOWNSHIP, CHESTER COUNTY, PA		 108 West Airport Road Lititz, Pennsylvania 17543 Tel 717.569.7021		TITLE PROFILE BARLEY SHEAF ROAD SWALE		SCALE AS SHOWN		DWG. NO. S-4590	
NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.	PROJECT NO.	SHEET NO.	REV.	PROJECT NO. 11193.60 SHEET NO. 4 OF 7								



LEGEND

- SOIL BOUNDARY LINE
- NAG S75 EROSION CONTROL BLANKET
- FS --- FS --- 12" COMPOST FILTER SOCK
- LOD --- LIMIT OF DISTURBANCE (0.422 ACRES)
- ROCK CONSTRUCTION ENTRANCE
- SOIL STOCKPILE

NO	REVISION	DATE	BY	APP.	NO	REVISION	DATE	BY	APP.

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DESIGN	BCU
CHECKED	
DRAWN	KLL
CHECKED	
DATE	SEPTEMBER 2022
SURVEY DATE	FEB 2022
FIELD BOOK	WEBER

SEAL

SEAL

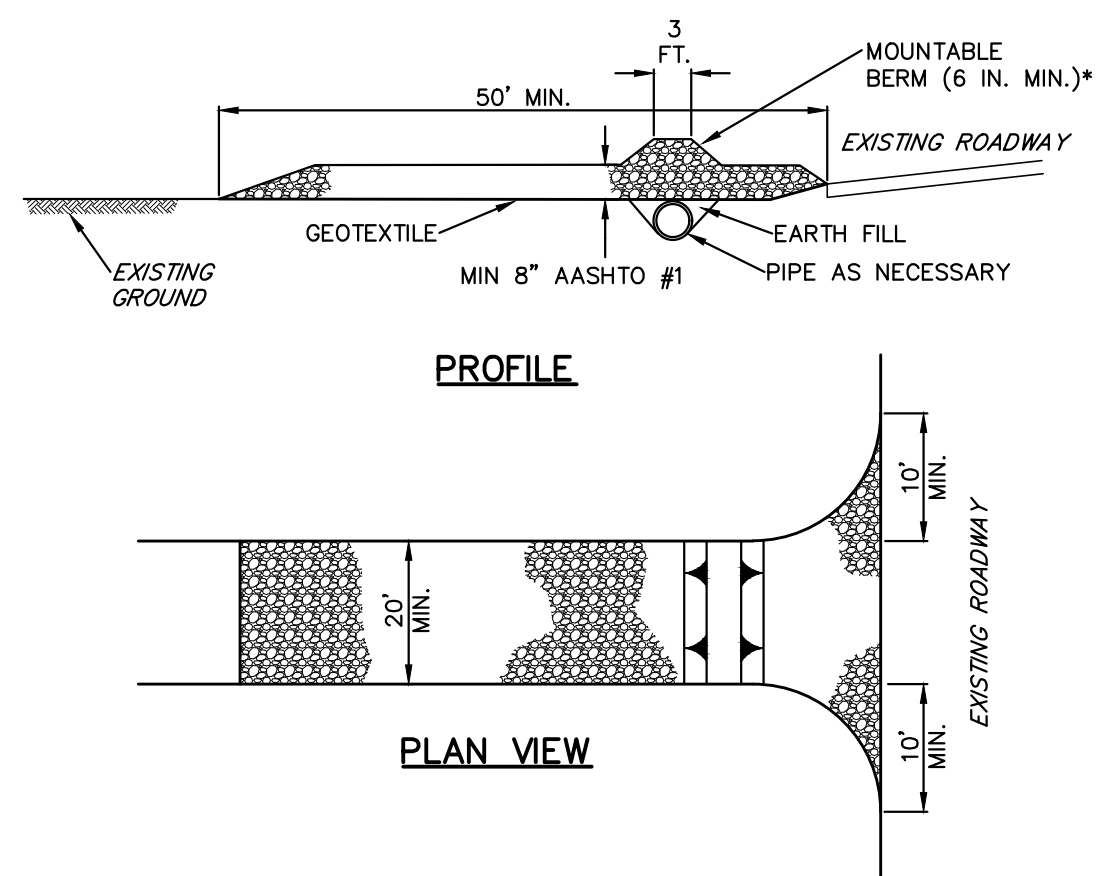
CLIENT & PROJECT

CALN TOWNSHIP
253 MUNICIPAL DRIVE, PO BOX 72149
THORNDALE, PA 19372

BARLEY SHEAF SWALE RECONSTRUCTION
CALN TOWNSHIP, CHESTER COUNTY, PA

108 West Airport Road
Lititz, Pennsylvania 17543
Tel 717.569.7021

TITLE			
EROSION AND SEDIMENTATION CONTROL PLAN BARLEY SHEAF ROAD SWALE			
SCALE	AS SHOWN		DWG. NO.
PROJECT NO.	SHEET NO.	REV.	S-4590
11193.60	5 OF 7		

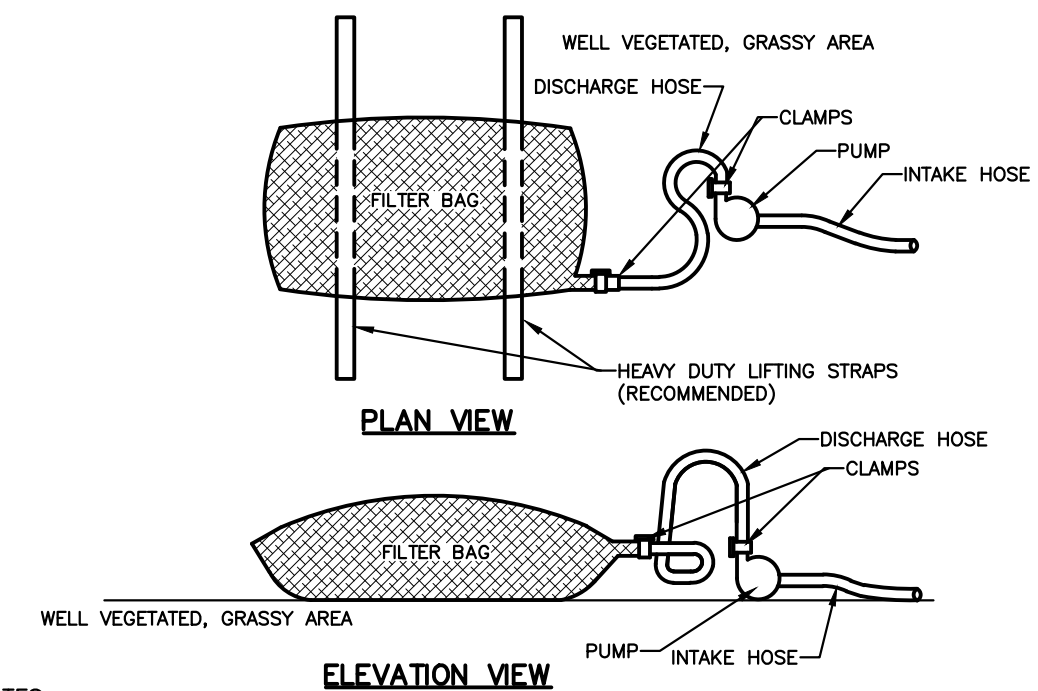


PROFILE
PLAN VIEW

* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:
 REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
 RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
 MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
 MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ROCK CONSTRUCTION ENTRANCE
 NO SCALE



PLAN VIEW
ELEVATION VIEW

NOTES:
 LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4633	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

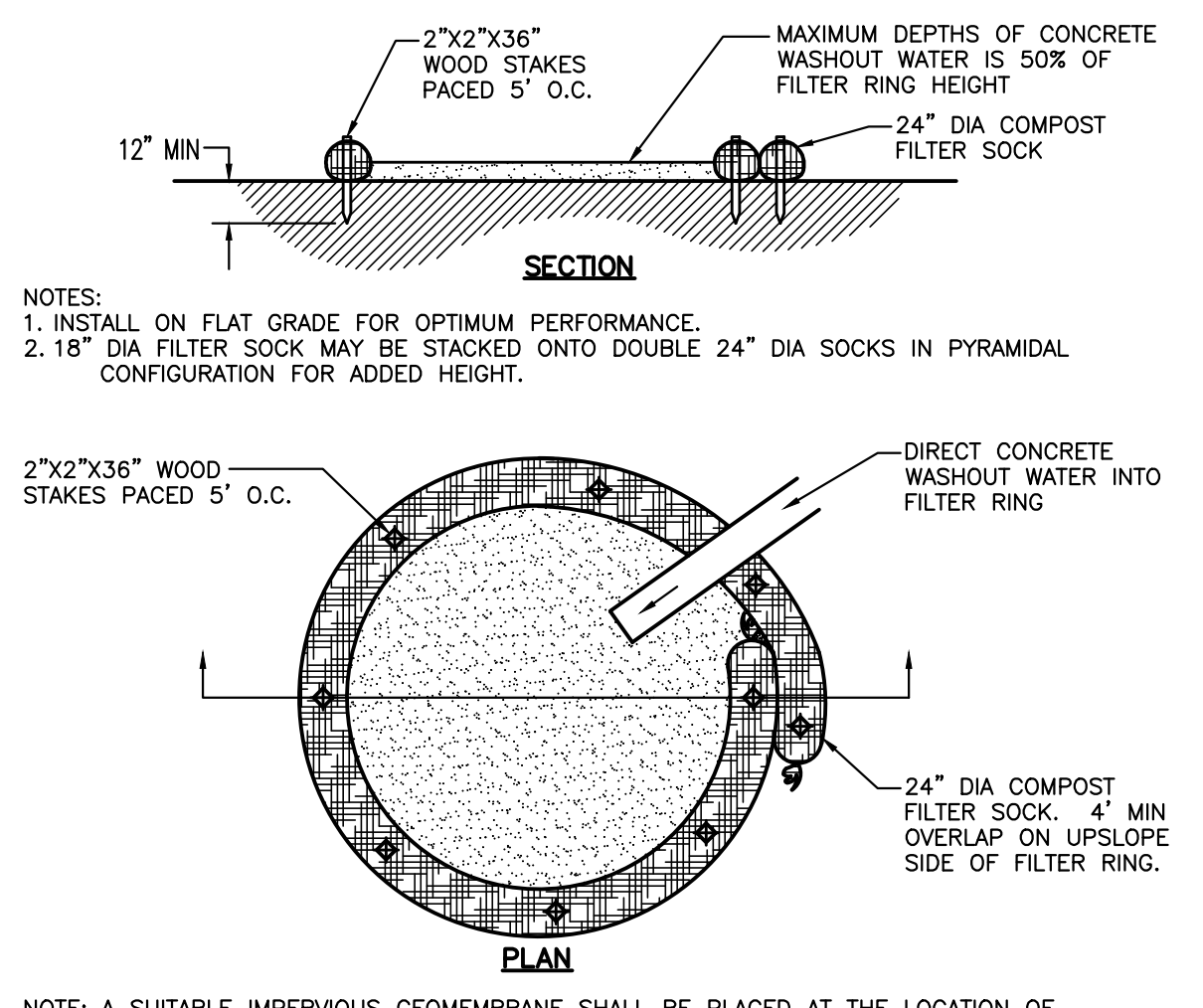
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

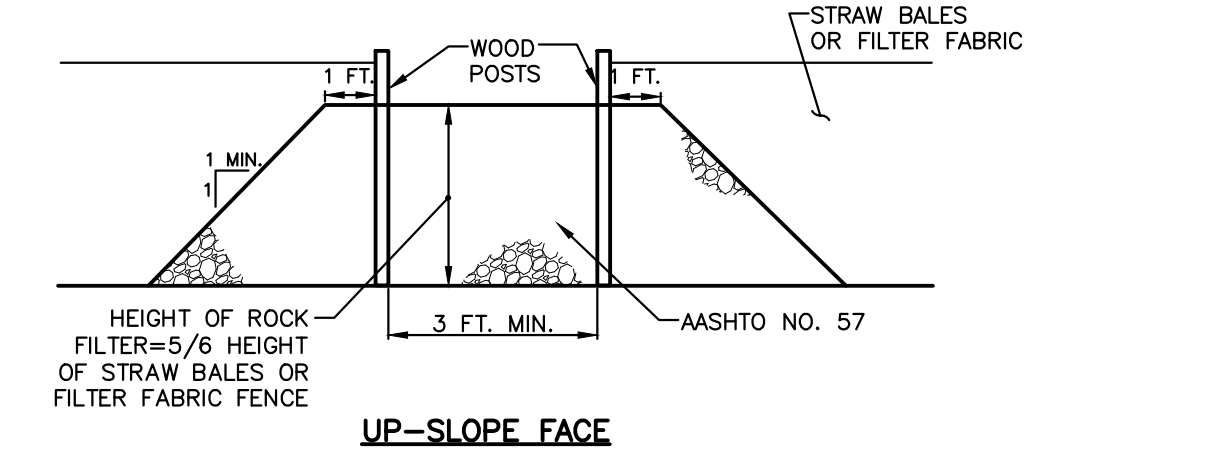
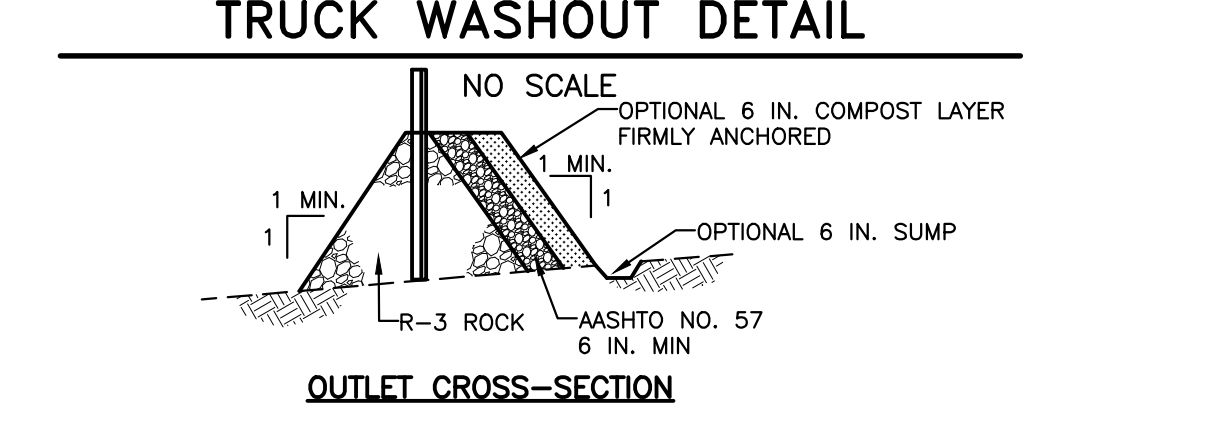
PUMPED WATER FILTER BAGS SHALL BE SURROUNDED BY A RING OF COMPOST FILTER SOCK.

PUMPED WATER FILTER BAG DETAIL
 NO SCALE



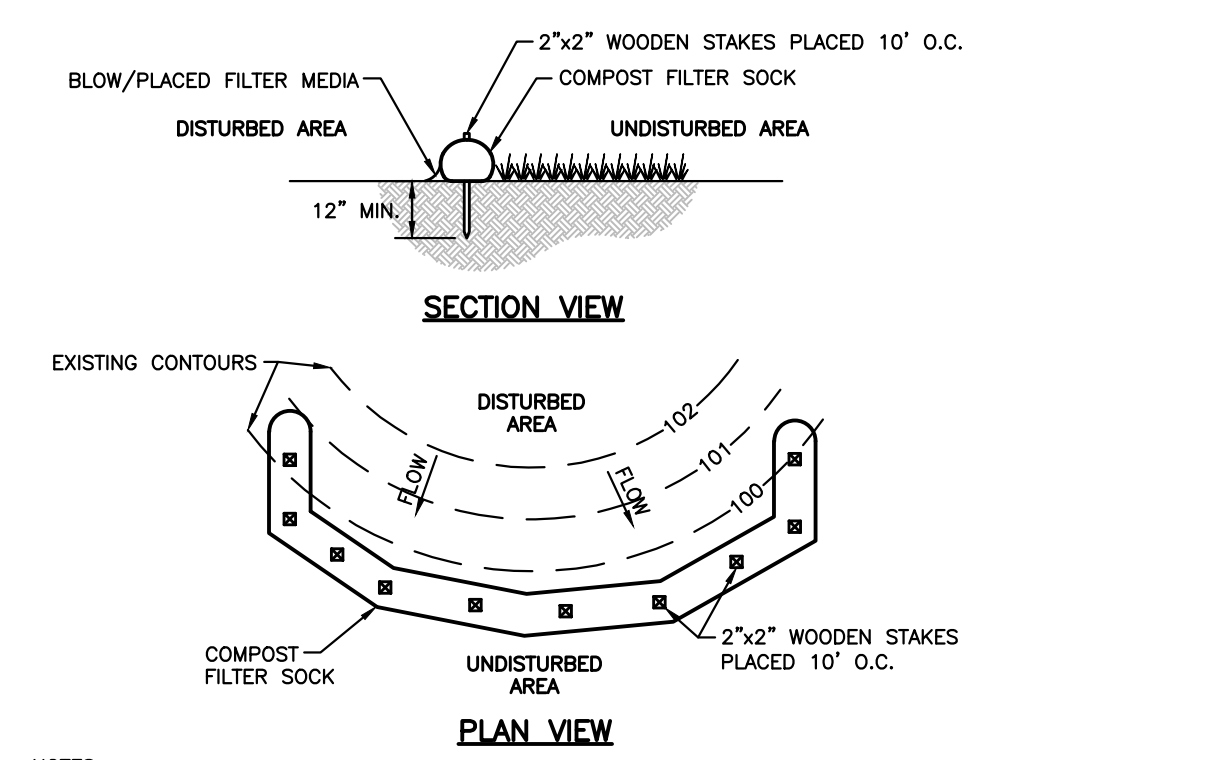
SECTION
PLAN

NOTES:
 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
 2. 18" DIA FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIA SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



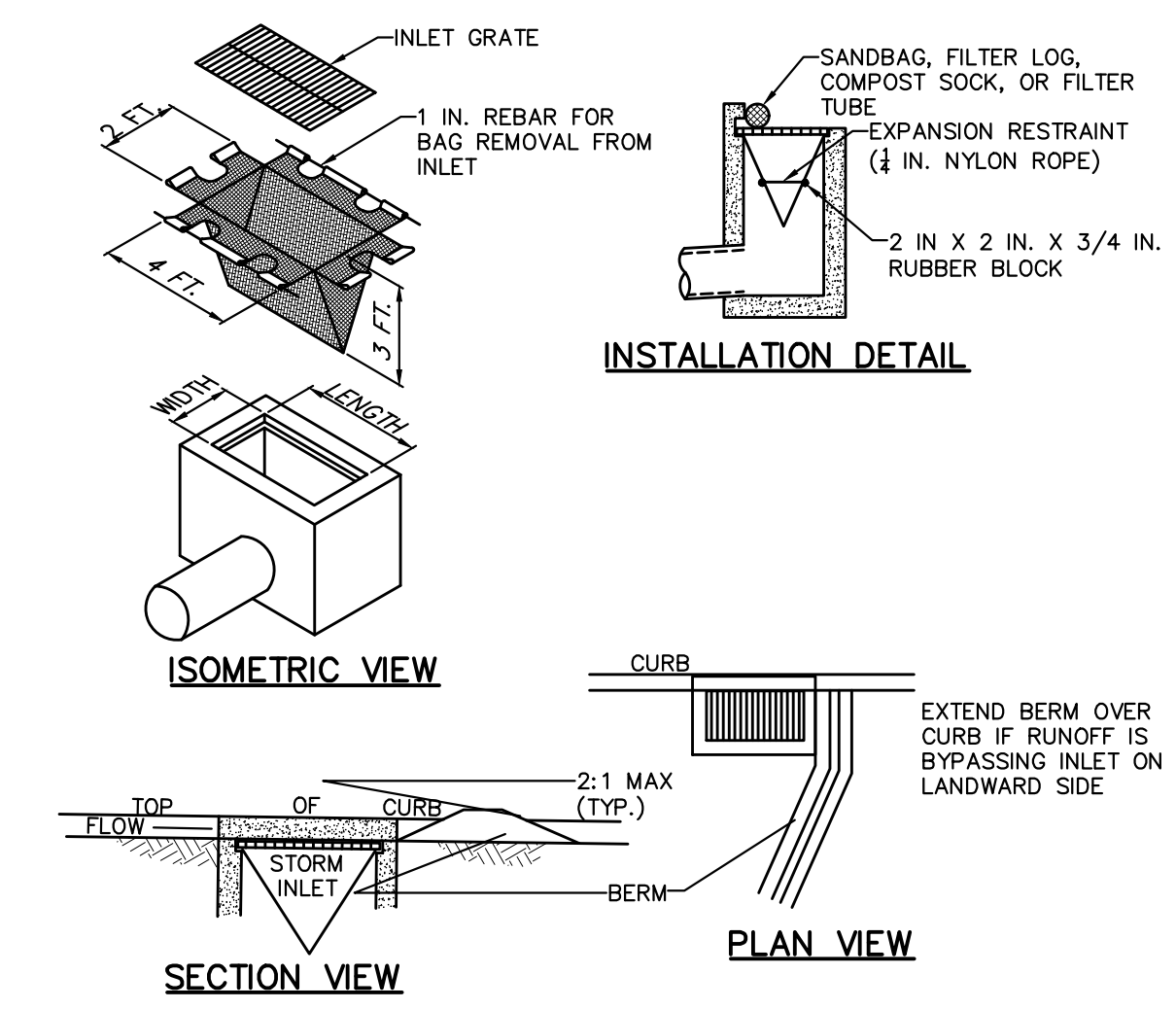
NOTES:
 A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS.
 SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

ROCK FILTER OUTLET DETAIL
 NO SCALE



NOTES:
 1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.
 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTOGRAPHABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

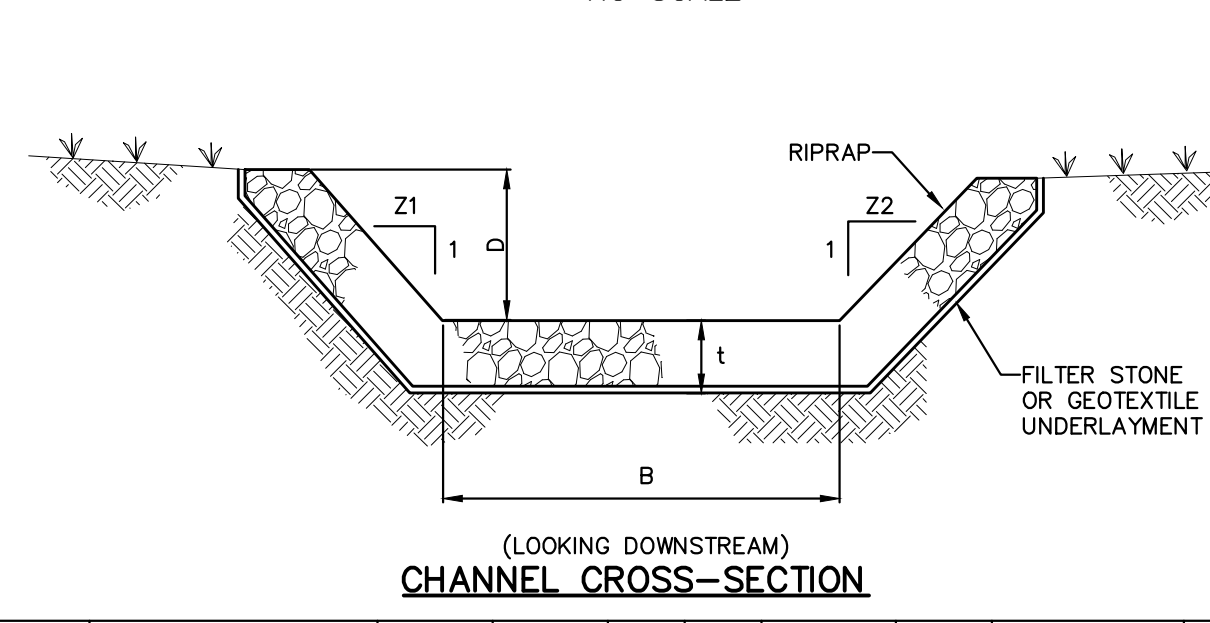
COMPOST FILTER SOCK DETAIL
 NO SCALE



NOTES:
 MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
 AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
 DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

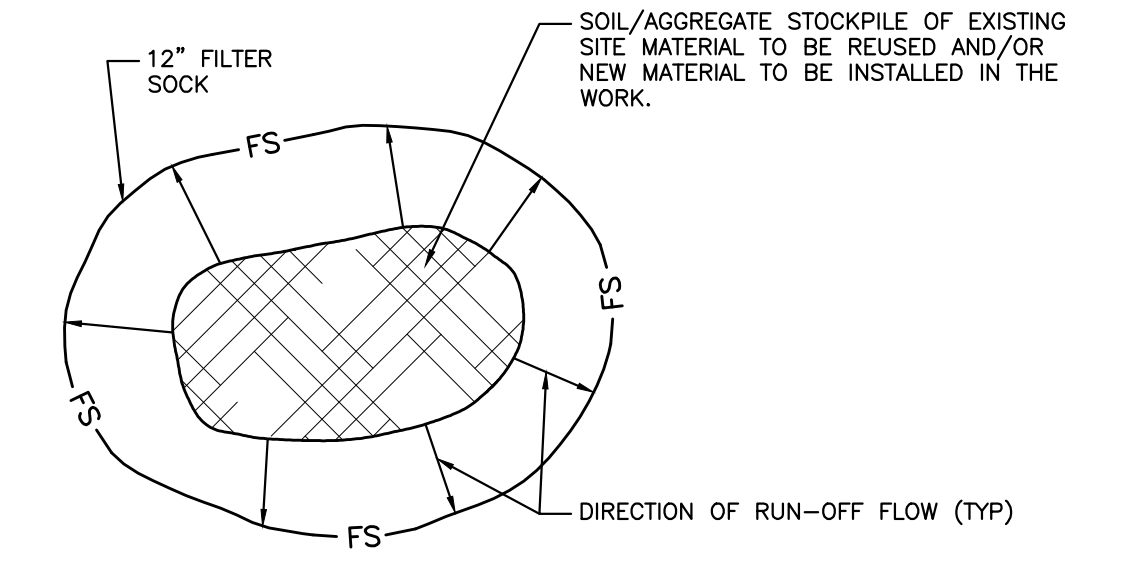
FILTER BAG INLET PROTECTION
TYPE C INLET
 NO SCALE



CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	Z1 (FT)	Z2 (FT)	RIPRAP GRADATION (R-)	RIPRAP DEPTH t (IN)	UNDERLAYMENT	UNDER-LAYMENT THICKNESS (IN)
1	N/A	5	3	2	2	6	36	GEOTEXTILE	N/A
2	N/A	5	3	2	2	6	36	GEOTEXTILE	N/A
3	N/A	5	3	2	2	6	36	GEOTEXTILE	N/A

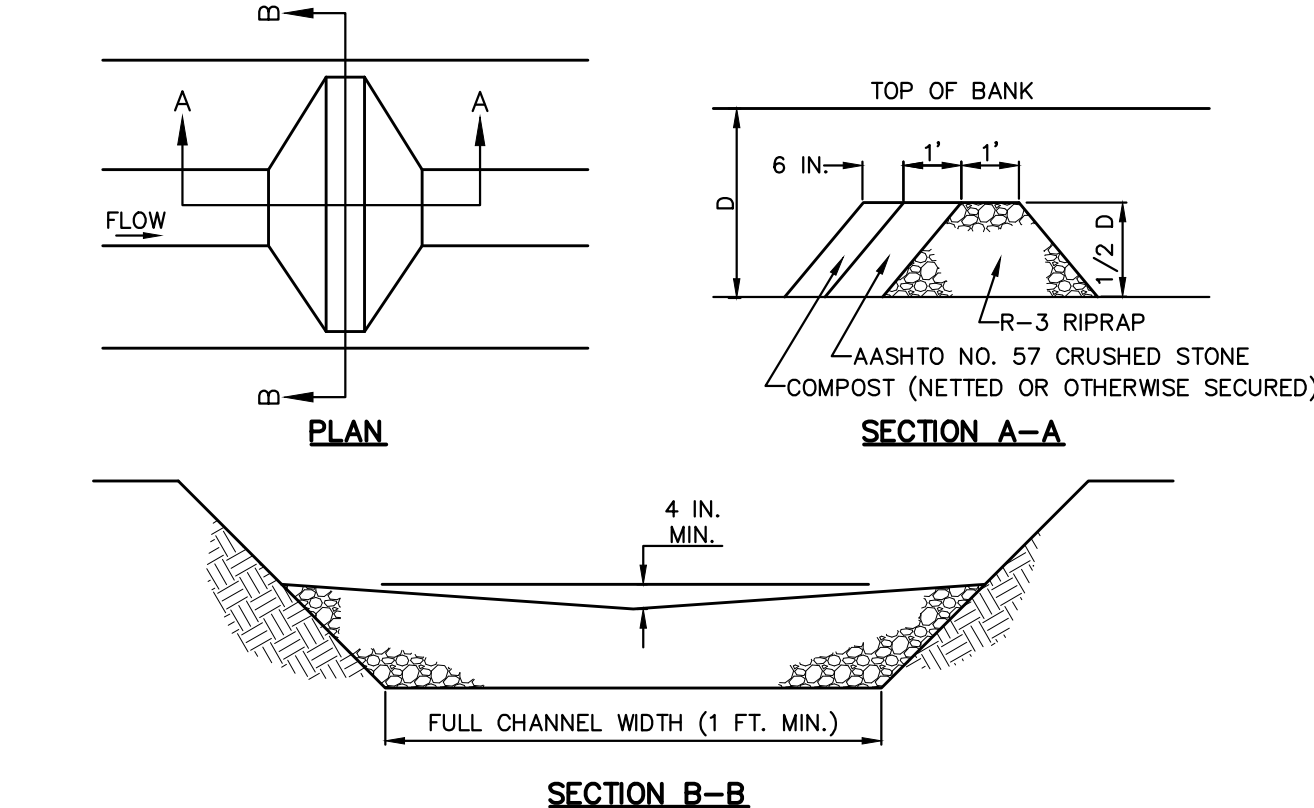
NOTES:
 FILTER STONE UNDERLAYMENT FOR BED SLOPES ≥ 0.10 FT/FT (10 %) SHALL BE USED.
 CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL AFTER ROCK PLACEMENT. CHANNEL MUST BE OVER-EXCAVATED A SUFFICIENT AMOUNT TO ALLOW FOR THE VOLUME OF ROCK PLACED WITHIN THE CHANNEL WHILE PROVIDING THE SPECIFIED FINISHED DIMENSIONS.
 CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE.
 DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
 THE MINIMUM ROCK THICKNESS (t) SHALL BE 1.5 TIMES THE MAX ROCK SIZE.

RIPRAP CHANNEL
 NO SCALE



MATERIAL STOCKPILE
 NO SCALE

NOTES:
 1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED.
 2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.
 3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.

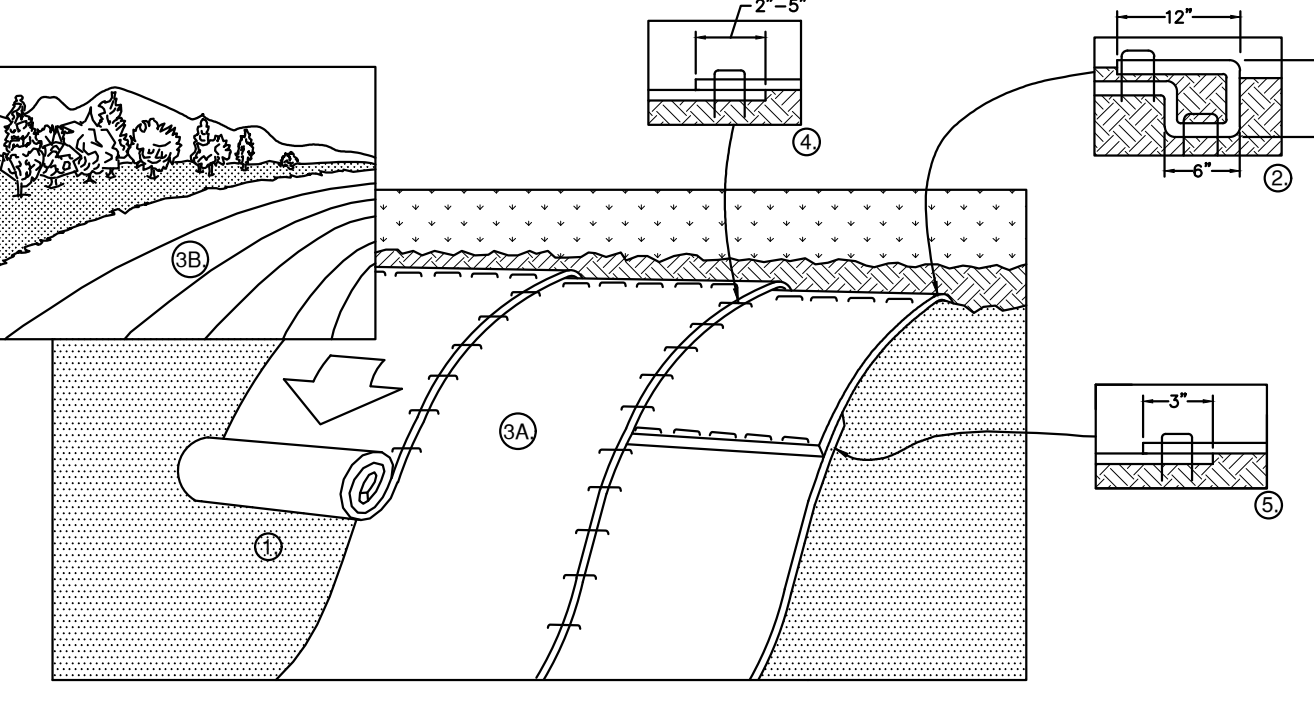


ROCK FILTER NO.	LOCATION	D (FT)	RIPRAP SIZE (R-)
ALL	PER PLAN	3	4

FOR D ≥ 3 FT. - USE R-4
 FOR D ≥ 2 FT. TO D < 3 FT. - USE R-3
 NOT APPLICABLE FOR D < 2 FT.

NOTE:
 SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS.

ROCK FILTER DETAIL
 NO SCALE



NOTES:
 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES. STAPLES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SEAM 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.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

EMBANKMENT PROTECTION
 NO SCALE

MICHAEL J. BINGHAM, P.E. RELEASED BY DESIGN BCU DRAWN KLL DATE SEPTEMBER 2022					SEAL 		CLIENT & PROJECT CALN TOWNSHIP 253 MUNICIPAL DRIVE, PO BOX 72149 THORNDALE, PA 19372 BARLEY SHEAF SWALE RECONSTRUCTION CALN TOWNSHIP, CHESTER COUNTY, PA					TITLE EROSION AND SEDIMENTATION CONTROL DETAILS	
NO REVISION DATE BY APP. NO REVISION DATE BY APP.					SURVEY DATE FEB 2022 FIELD BOOK WEBER		DWG. NO. S-4590			SCALE AS SHOWN PROJECT NO. 11193.60 SHEET NO. 6 OF 7 REV.			

