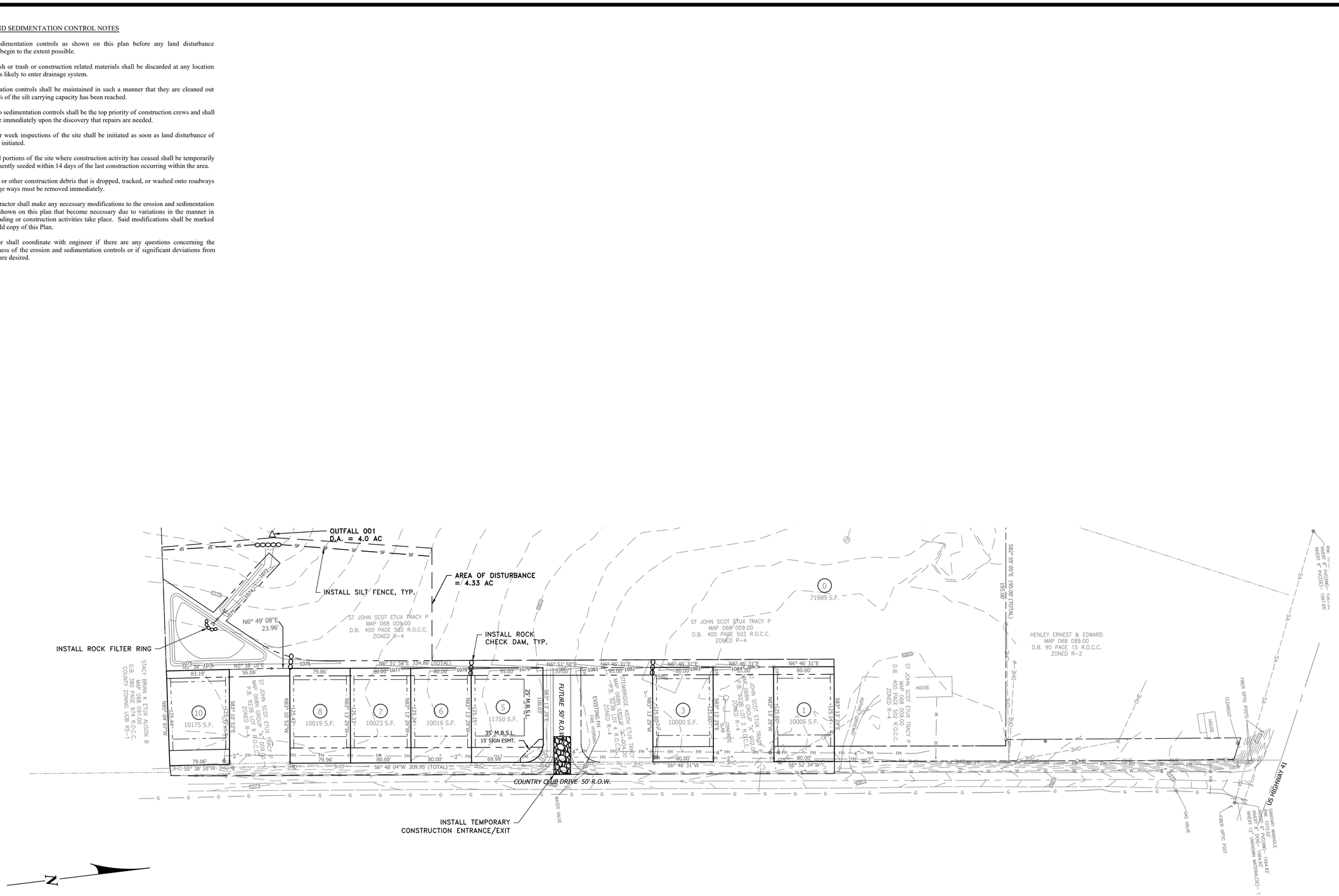
EROSION AND SEDIMENTATION CONTROL NOTES

1. Install sedimentation controls as shown on this plan before any land disturbance activities begin to the extent possible.
2. No rubbish or trash or construction related materials shall be discarded at any location where it is likely to enter drainage system.
3. Sedimentation controls shall be maintained in such a manner that they are cleaned out when 50% of the silt carrying capacity has been reached.
4. Repairs to sedimentation controls shall be the top priority of construction crews and shall take place immediately upon the discovery that repairs are needed.
5. Twice per week inspections of the site shall be initiated as soon as land disturbance of the site is initiated.
6. Disturbed portions of the site where construction activity has ceased shall be temporarily or permanently seeded within 14 days of the last construction occurring within the area.
7. Sediment or other construction debris that is dropped, tracked, or washed onto roadways or drainage ways must be removed immediately.
8. The Contractor shall make any necessary modifications to the erosion and sedimentation controls shown on this plan that become necessary due to variations in the manner in which grading or construction activities take place. Said modifications shall be marked on the field copy of this Plan.
9. Contractor shall coordinate with engineer if there are any questions concerning the effectiveness of the erosion and sedimentation controls or if significant deviations from this plan are desired.



NO	DATE	REVISION	DR.	CHK.

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INITIAL EROSION CONTROL PLAN
WALNUT GROVE PHASE 1
CONSTRUCTION PLANS

SCOTT C. ST. JOHN
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
5/11/25

JOB 781-01

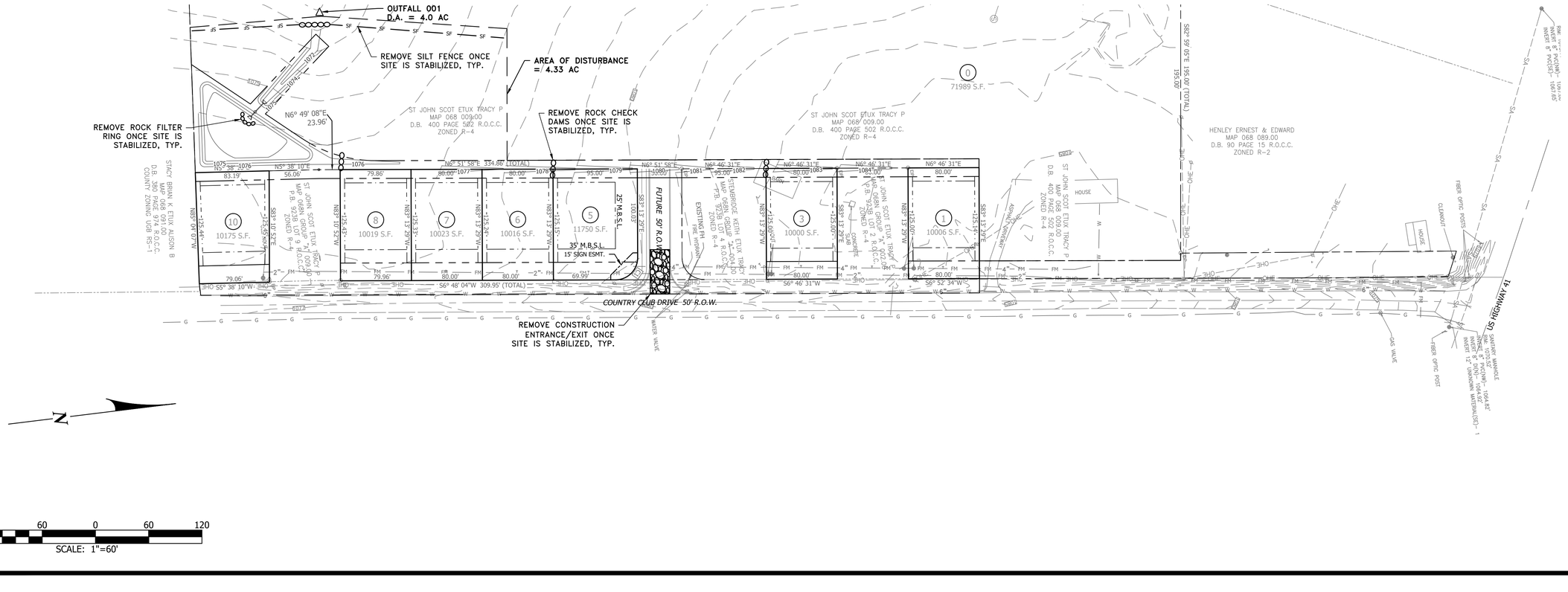
SHEET C2.1
OF SHEETS

EROSION AND SEDIMENTATION CONTROL NOTES

1. Sedimentation controls shall be maintained on the site until the areas draining to the control are fully stabilized with permanent vegetation or pavement.

2. Once finish grading of the disturbed areas is complete, the areas shall be permanently seeded and mulched.

3. Once final stabilization of the disturbed areas has been completed, remaining sedimentation controls shall be removed from the site.



NO | DATE | REVISION | DR. | CHK.

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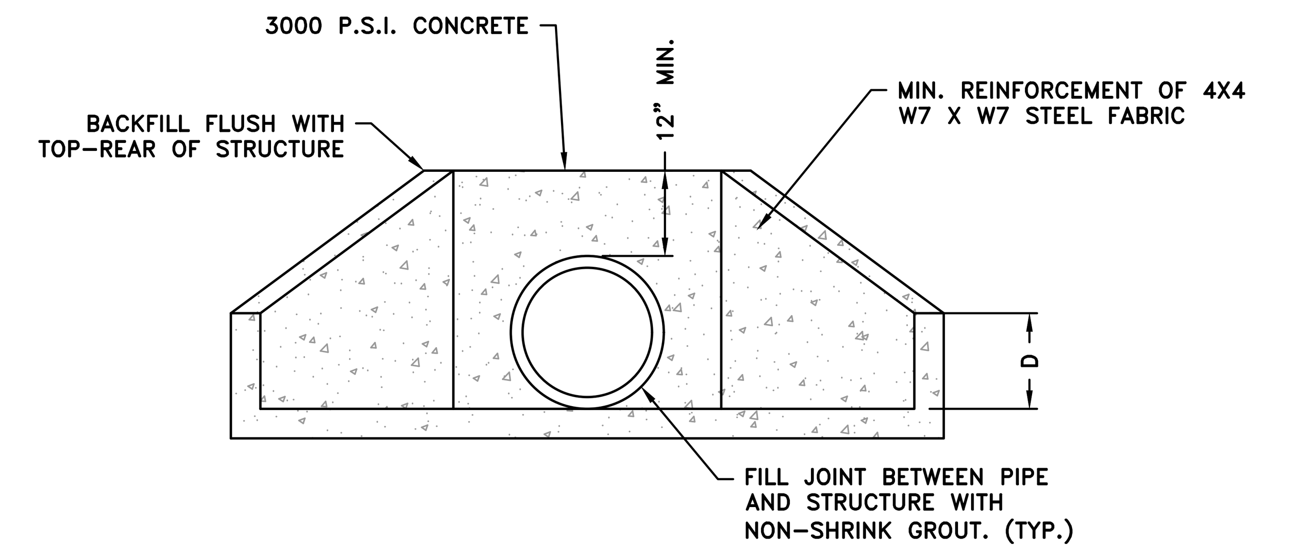
FINAL EROSION CONTROL PLAN
WALNUT GROVE PHASE 1
CONSTRUCTION PLANS

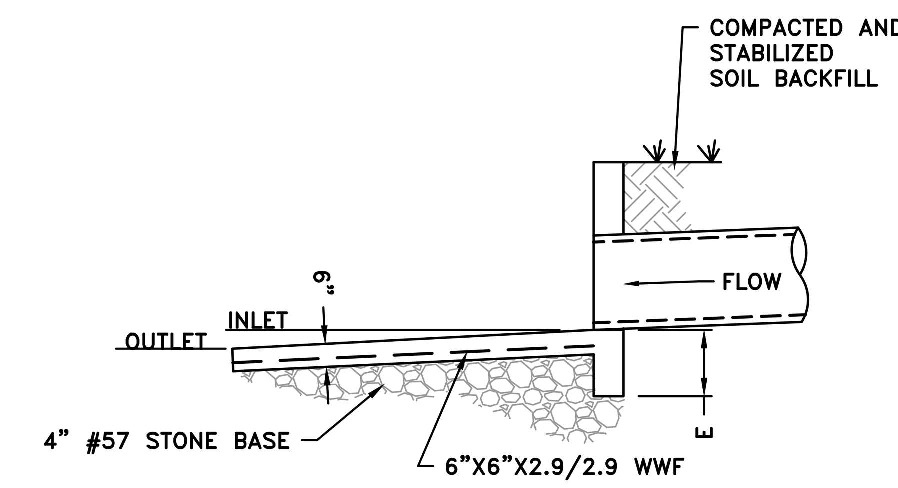
SCOTT C. ST. JOHN
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
5/11/25

JOB 781-01

SHEET C2.2
OF SHEETS

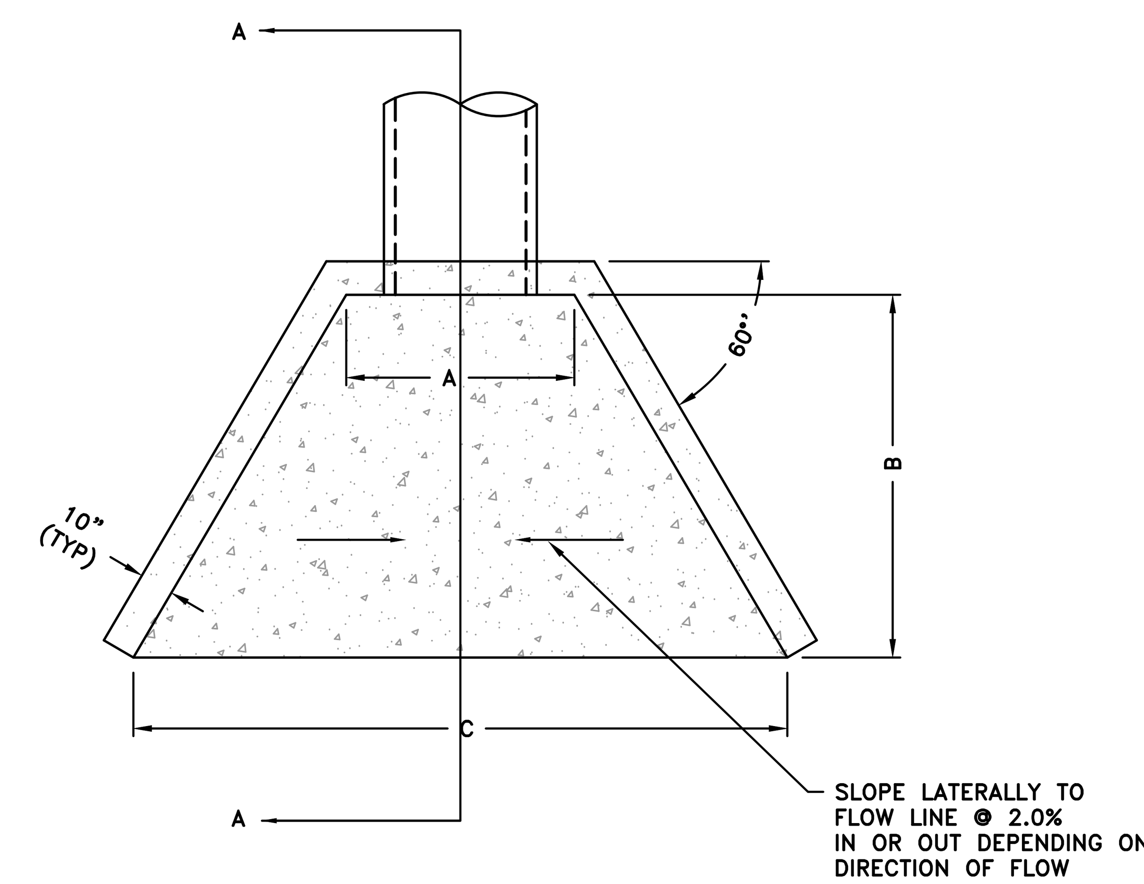


ELEVATION



SECTION A-A

DIMENSIONS TABLE					
DIA.	A	B	C	D	E
12"	20"	30"	60"	6"	8"
15"	23"	36"	72"	6"	8"
18"	28"	42"	84"	9"	8"
24"	34"	48"	96"	9"	8"
30"	40"	54"	108"	12"	10"
36"	48"	60"	120"	15"	10"
42"	54"	66"	132"	18"	10"
48"	60"	72"	144"	21"	12"
54"	66"	78"	156"	24"	12"
60"	72"	84"	168"	24"	12"

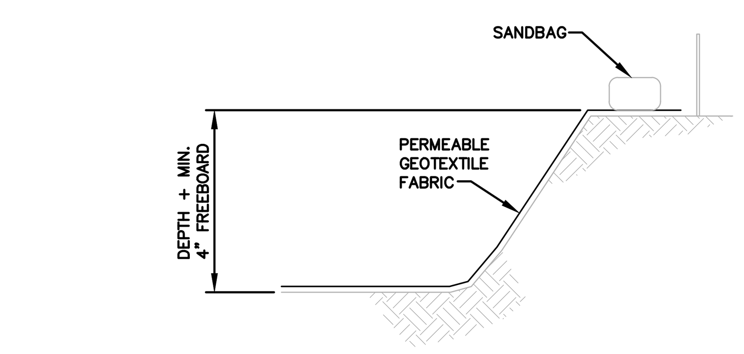


PLAN

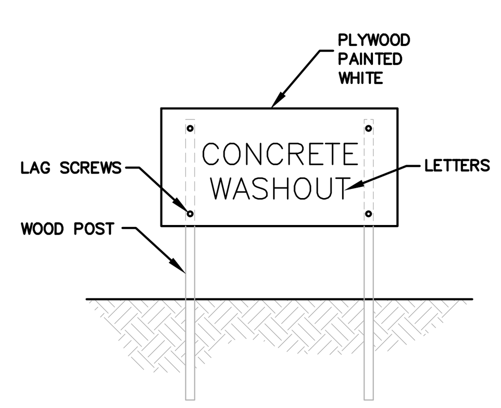
NOTE: ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ONE INCH.

CONCRETE WINGED HEADWALL/ENDWALL

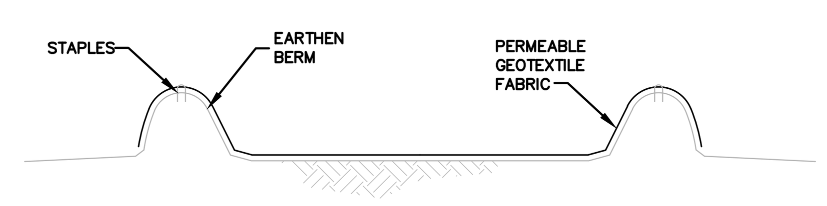
N.T.S.



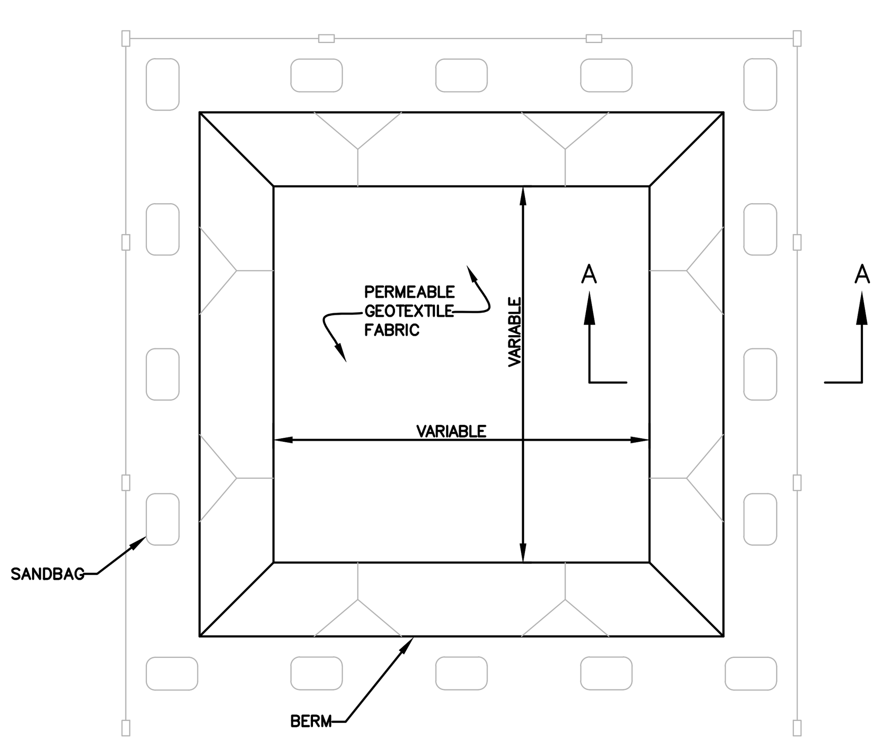
SECTION A-A
NOT TO SCALE



CONCRETE WASHOUT SIGN (OR EQUIVALENT)



SECTION B-B
NOT TO SCALE



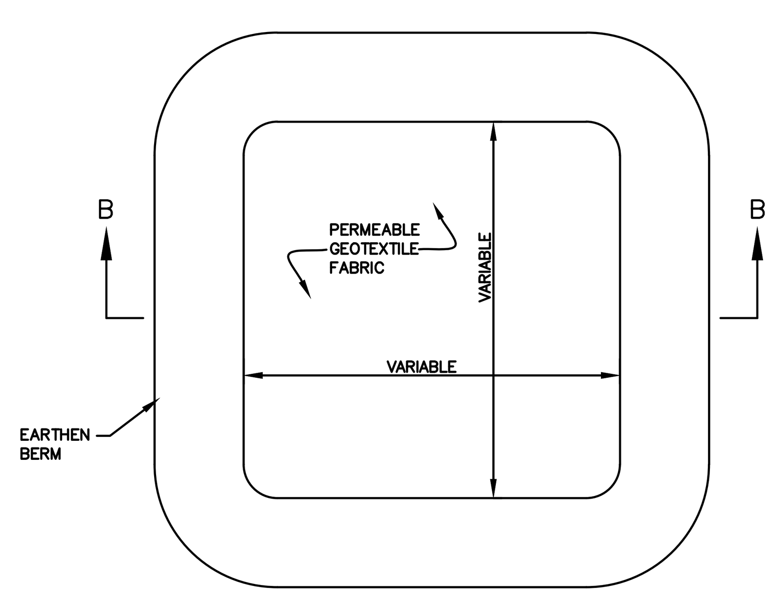
PLAN VIEW
NOT TO SCALE

TYPE "BELOW GRADE"

NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5FT.OF THE WASHOUT FACILITY.

EROSION CONTROL PLAN LEGEND: CONCRETE WASHOUT CONCRETE WASHOUT



PLAN VIEW
NOT TO SCALE

TYPE "ABOVE GRADE" WITH EATHERN BERMS

NO	DATE	REVISION	DR.	CHK.

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DETAILS

WALNUT GROVE PHASE 1 CONSTRUCTION PLANS

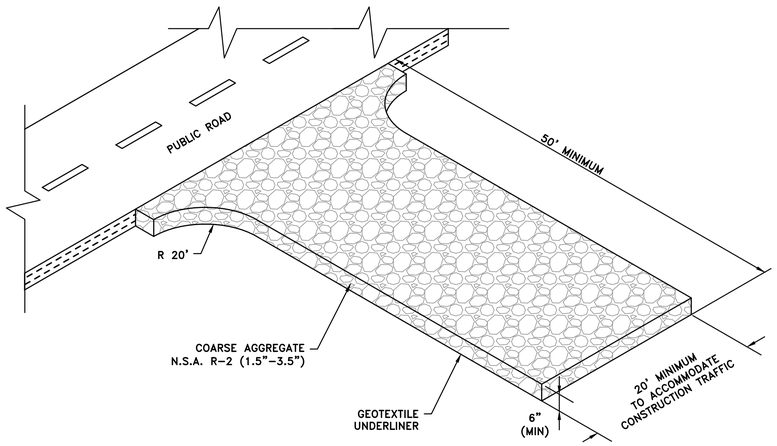
SCOT C. ST. JOHN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
3/11/25

JOB 781-01

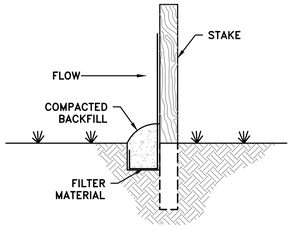
SHEET C3.1

OF SHEETS

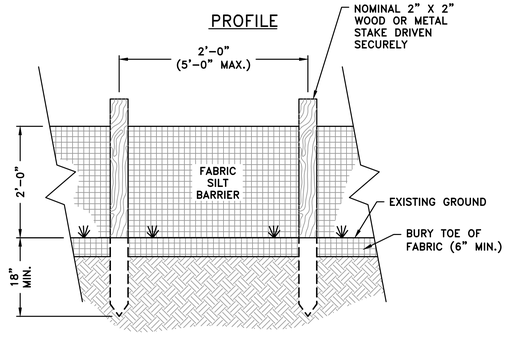
1. LOCATE STONE STABILIZED PAD AT ANY POINT WHERE VEHICULAR TRAFFIC WILL BE LEAVING THE CONSTRUCTION SITE ONTO A PUBLIC RIGHT-OF-WAY STREET, ROADWAY, OR PARKING AREA.
2. WIDTH= 20'-0" MINIMUM BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS.
   LENGTH= 50'-0" MINIMUM
3. MAINTAIN THE EXIT TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. PROVIDE PERIODIC TOP DRESSING WITH 1.5"-3.5" STONE, AS CONDITIONS DEMAND. IMMEDIATELY REMOVE ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO ROADWAY OR INTO STORM DRAINS.
4. CLEAN WHEELS TO REMOVE MUD PRIOR TO ENTRANCE ON TO PUBLIC RIGHT-OF-WAY, WHEN WASHING IS REQUIRED, DO SO ON AREAS STABILIZED WITH CRUSHED STONE DRAINING INTO AN APPROVED SEDIMENT TRAP OF SEDIMENT BASIN.



TEMPORARY CONSTRUCTION EXIT
N.T.S.



PROFILE

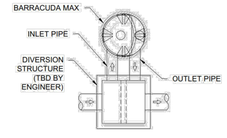


SILT FENCE
N.T.S.

BARRACUDA MAX MINIMUM RIM TO INVERT OUT	
MODEL	INCH (MM)
S3	36 (914)
S4	36 (914)
S6	39 (991)
S8	41 (1041)

THE S3, S4, S6, AND S8 CAN BE INSTALLED IN A STANDARD 36" (900 mm), 48" (1200 mm), 72" (1800 mm), AND 96" (2400 mm) PRECAST MANHOLE, RESPECTIVELY. THE S3 AND S4 CAN BE PROVIDED FACTORY INSTALLED WITHIN A 36" (900 mm) AND 48" (1200 mm) ADS HP MANHOLE AND DELIVERED TO THE JOBSITE.

ONLINE CONFIGURATION



OFFLINE CONFIGURATION

ISOLATOR ROW PLUS FLOW RATES			
CHAMBER MODEL	SURFACE LOADING RATE GPM/FT² (L/S/m²)	EFFECTIVE FILTRATION TREATMENT AREA FT² (m²)	MTFR CFS (L/S)*
SC-160	4.13 (2.8)	11.45 (1.064)	0.11 (2.983)
SC-310	4.13 (2.8)	17.7 (1.644)	0.16 (4.612)
SC-740	4.13 (2.8)	27.8 (2.583)	0.26 (7.244)
DC-780	4.13 (2.8)	27.8 (2.583)	0.26 (7.244)
SC-800	4.13 (2.8)	27.3 (2.541)	0.25 (7.128)
MC-3500	4.13 (2.8)	42.9 (3.986)	0.40 (11.178)
MC-4500	4.13 (2.8)	30.1 (2.796)	0.28 (7.843)
MC-7200	4.13 (2.8)	50.0 (4.645)	0.46 (13.028)

* PER CHAMBER LOADING RATES BASED ON NJCAT VERIFICATION TESTING OF THE STORMTECH SC-740 ISOLATOR ROW PLUS IN ACCORDANCE WITH NJDEP LABORATORY PROTOCOL TO ACCESS TOTAL SUSPENDED SOLIDS REMOVAL BY FILTRATION MANUFACTURED TREATMENT DEVICES, 2013.

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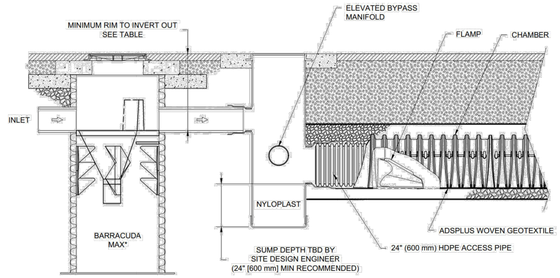
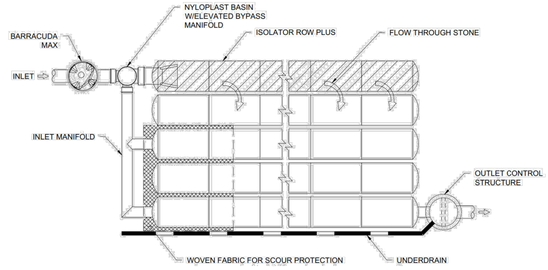


BARRACUDA MAX & ISOLATOR ROW PLUS CROSS SECTION/PROFILE
NTS



BARRACUDA MAX & ISOLATOR ROW PLUS SCHEMATIC
NTS

KEY BENEFITS OF THE BARRACUDA MAX

- SINGLE MANHOLE DESIGN
- VARIABLE INLET/OUTLET ANGLE CONFIGURATIONS (NOT JUST 180 DEGREE ORIENTATION)
- INTERNAL BYPASS FOR INLINE INSTALLATION (WHERE APPLICABLE)
- ALL UNITS CAN BE INSTALLED INTO A STANDARD PRECAST MANHOLE
- 3' & 4' UNITS CAN BE FACTORY FABRICATED IN HP MANHOLES FOR QUICK DELIVERY WITH A LIGHT, EASY TO INSTALL STRUCTURE
- IN-STOCK COMPONENTS FOR QUICK DELIVERY
- NO ELEVATION LOSS BETWEEN THE INLET AND OUTLET
- SURFACE INSPECTION AND MAINTENANCE WITH NO CONFINED SPACE ENTRY
- DESIGNED FOR EASY MAINTENANCE USING A VACUUM TRUCK OR SIMILAR EQUIPMENT
- FIELD ENGINEERS AND INTERNAL ENGINEERING SERVICES DEPARTMENT TO ASSIST ENGINEERING WITH SIZING/DETAILS

BARRACUDA DESIGN TOOL

https://www.ads-pipe.com/water-quality-design-tool

BARRACUDA MAX TREATMENT FLOW (80% TSS)	
MODEL	CFS (L/s)
S3	0.85 (24.1)
S4	1.52 (43.0)
S6	3.40 (96.3)
S8	6.08 (172.2)

BARRACUDA MAX CAN BE CONFIGURED WITH AN OIL POUCH OR TRASH GUARD FOR ENHANCED TREATMENT.

KEY BENEFITS OF A BARRACUDA MAX & ISOLATOR PLUS DESIGN

- ENHANCED SEDIMENT REMOVAL BY COMBINING TWO INDUSTRY PROVEN DEVICES
- EXTENDED MAINTENANCE CYCLES
- EASY TO INSTALL AND CONFIGURE TO SPECIFIC SITE CONSTRAINTS
- ONLINE DESIGN TOOLS ALLOW DESIGNERS TO EASILY CREATE LAYOUTS AND DETAILS

KEY BENEFITS OF STORMTECH CHAMBERS

- LARGE FAMILY OF CHAMBERS TO FIT YOUR SITE
- EASILY CONFIGURABLE FOR IRREGULAR SHAPED BEDS
- MEETS PRODUCT REQUIREMENTS OF ASTM F2418 AND ASTM F2922 AND DESIGN REQUIREMENTS OF ASTM F2787
- EXCEED AASHTO LRFD DESIGN SPECIFICATIONS FOR HS-20 LIVE LOADS & DEEP BURIAL EARTH LOADS
- PATENTED ISOLATOR ROW PLUS FOR LESS FREQUENT MAINTENANCE, WATER QUALITY, AND LONG-TERM PERFORMANCE
- THIRD PARTY VERIFIED PERFORMANCE
- FIELD ENGINEERS AND INTERNAL ENGINEERING SERVICES DEPARTMENT TO ASSIST ENGINEERING WITH LAYOUTS

STORMTECH DESIGN TOOL

https://designtool.ads-pipe.com/

STORMTECH® + WQ STD DETAIL
BARRACUDA® & ISOLATOR ROW PLUS®

DATE: 2/10/22 | DRAWN: KLJ | DRAWING #: 1401 | CHECKED: KMS

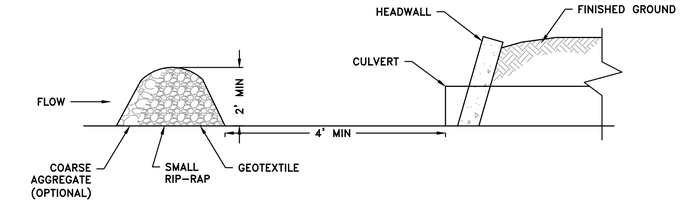
DATE	DRWN	CHKD	ADED E-900	DESCRIPTION
2/25/25	KLJ	CJD		

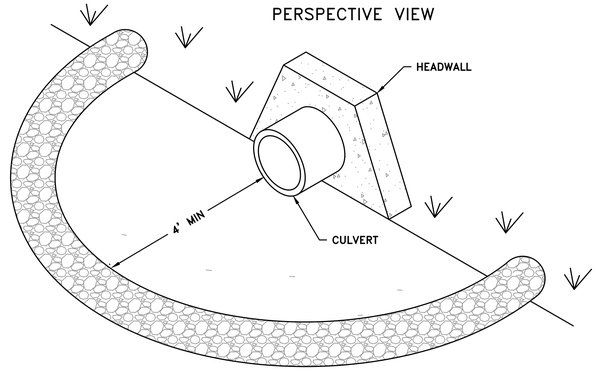
THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO PREPARE A SITE PLAN THAT MEETS ALL APPLICABLE REGULATIONS AND REQUIREMENTS.

ADS Advanced Drainage Systems, Inc.

4640 TRUEMAN BLVD
HILLIARD, OH 43026

SHEET 1 OF 1





STONE FILTER RING
N.T.S.

NO DATE REVISION DR.CHK.

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SHEET C3.2
OF SHEETS