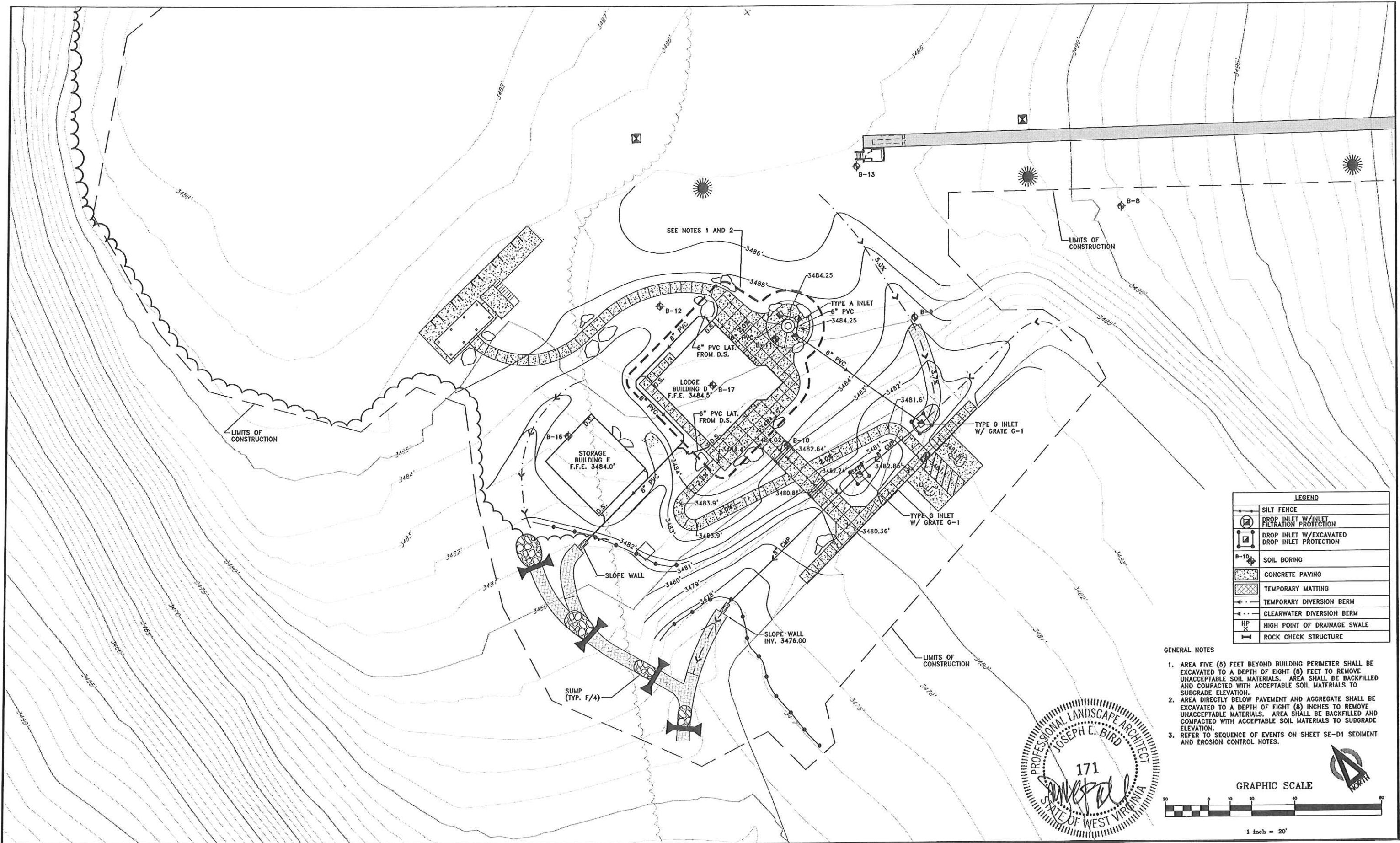
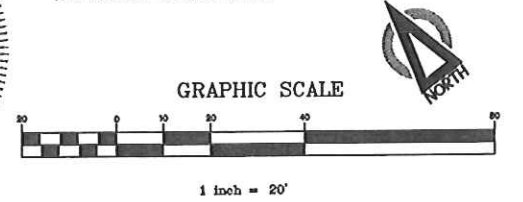


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LEGEND	
	SILT FENCE
	DROP INLET W/ INLET FILTRATION PROTECTION
	DROP INLET W/ EXCAVATED DROP INLET PROTECTION
	SOIL BORING
	CONCRETE PAVING
	TEMPORARY MATTING
	TEMPORARY DIVERSION BERM
	CLEARWATER DIVERSION BERM
	HIGH POINT OF DRAINAGE SWALE
	ROCK CHECK STRUCTURE

- GENERAL NOTES
1. AREA FIVE (5) FEET BEYOND BUILDING PERIMETER SHALL BE EXCAVATED TO A DEPTH OF EIGHT (8) FEET TO REMOVE UNACCEPTABLE SOIL MATERIALS. AREA SHALL BE BACKFILLED AND COMPACTED WITH ACCEPTABLE SOIL MATERIALS TO SUBGRADE ELEVATION.
 2. AREA DIRECTLY BELOW PAVEMENT AND AGGREGATE SHALL BE EXCAVATED TO A DEPTH OF EIGHT (8) INCHES TO REMOVE UNACCEPTABLE MATERIALS. AREA SHALL BE BACKFILLED AND COMPACTED WITH ACCEPTABLE SOIL MATERIALS TO SUBGRADE ELEVATION.
 3. REFER TO SEQUENCE OF EVENTS ON SHEET SE-D1 SEDIMENT AND EROSION CONTROL NOTES.



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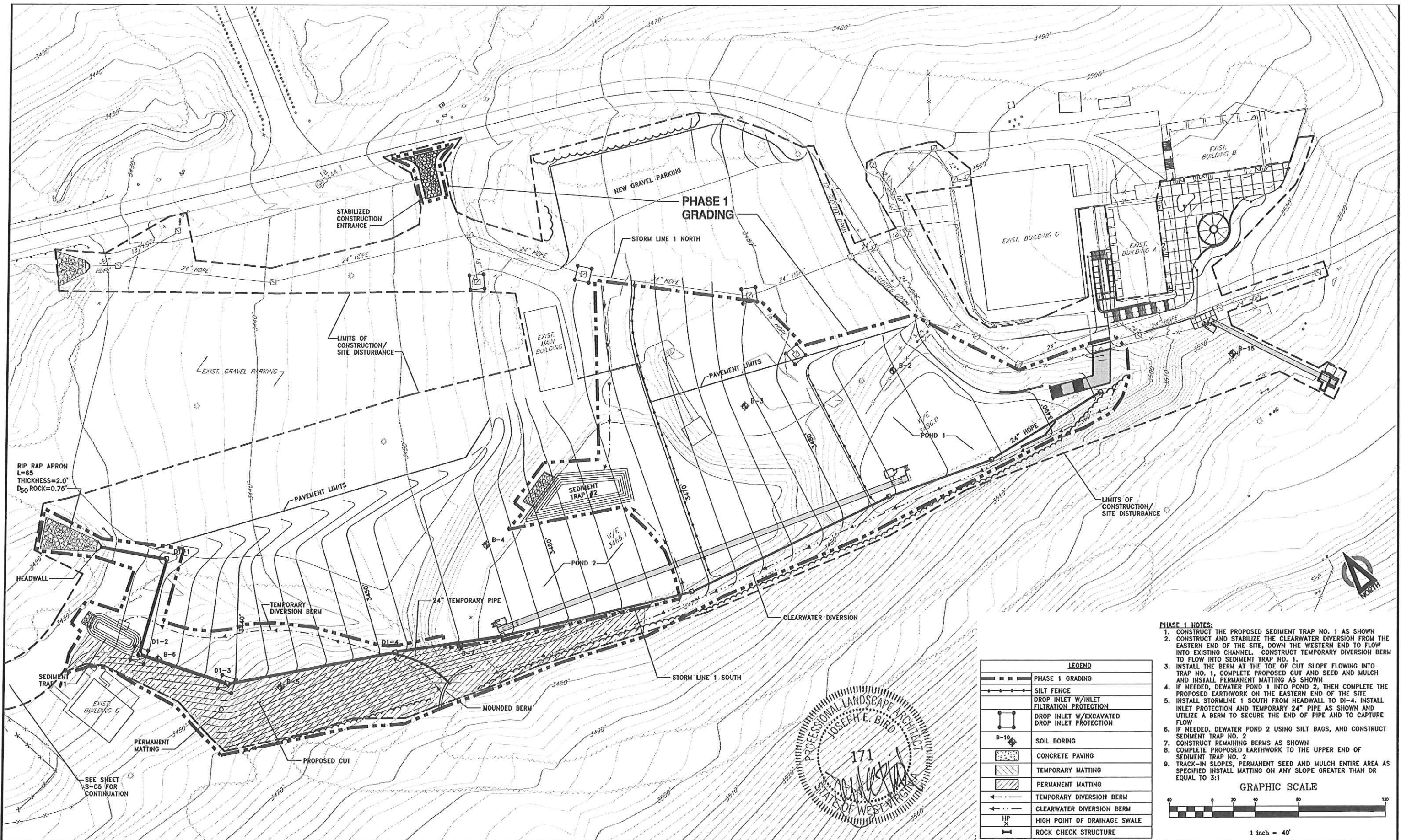
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TUBE PARK
 ENLARGED
 SEDIMENT AND EROSION
 CONTROL PLAN

SEAL

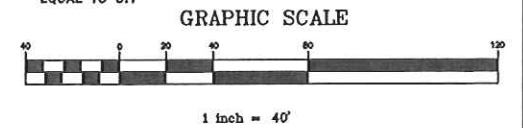
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SCALE:	1" = 20'
DATE:	MAY 2011
DRAWN BY:	FLB
DESIGNED BY:	RDD
CHECKED BY:	JEB
SHEET NO.	D-C2

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- PHASE 1 NOTES:**
1. CONSTRUCT THE PROPOSED SEDIMENT TRAP NO. 1 AS SHOWN
 2. CONSTRUCT AND STABILIZE THE CLEARWATER DIVERSION FROM THE EASTERN END OF THE SITE, DOWN THE WESTERN END TO FLOW INTO EXISTING CHANNEL. CONSTRUCT TEMPORARY DIVERSION BERM TO FLOW INTO SEDIMENT TRAP NO. 1.
 3. INSTALL THE BERM AT THE TOE OF CUT SLOPE FLOWING INTO TRAP NO. 1, COMPLETE PROPOSED CUT AND SEED AND MULCH AND INSTALL PERMANENT MATTING AS SHOWN
 4. IF NEEDED, DEWATER POND 1 INTO POND 2, THEN COMPLETE THE PROPOSED EARTHWORK ON THE EASTERN END OF THE SITE
 5. INSTALL STORMLINE 1 SOUTH FROM HEADWALL TO DI-4. INSTALL INLET PROTECTION AND TEMPORARY 24" PIPE AS SHOWN AND UTILIZE A BERM TO SECURE THE END OF PIPE AND TO CAPTURE FLOW
 6. IF NEEDED, DEWATER POND 2 USING SILT BAGS, AND CONSTRUCT SEDIMENT TRAP NO. 2
 7. CONSTRUCT REMAINING BERMS AS SHOWN
 8. COMPLETE PROPOSED EARTHWORK TO THE UPPER END OF SEDIMENT TRAP NO. 2
 9. TRACK-IN SLOPES, PERMANENT SEED AND MULCH ENTIRE AREA AS SPECIFIED INSTALL MATTING ON ANY SLOPE GREATER THAN OR EQUAL TO 3:1

LEGEND	
	PHASE 1 GRADING
	SILT FENCE
	DROP INLET W/INLET FILTRATION PROTECTION
	DROP INLET W/EXCAVATED DROP INLET PROTECTION
	SOIL BORING
	CONCRETE PAVING
	TEMPORARY MATTING
	PERMANENT MATTING
	TEMPORARY DIVERSION BERM
	CLEARWATER DIVERSION BERM
	HIGH POINT OF DRAINAGE SWALE
	ROCK CHECK STRUCTURE



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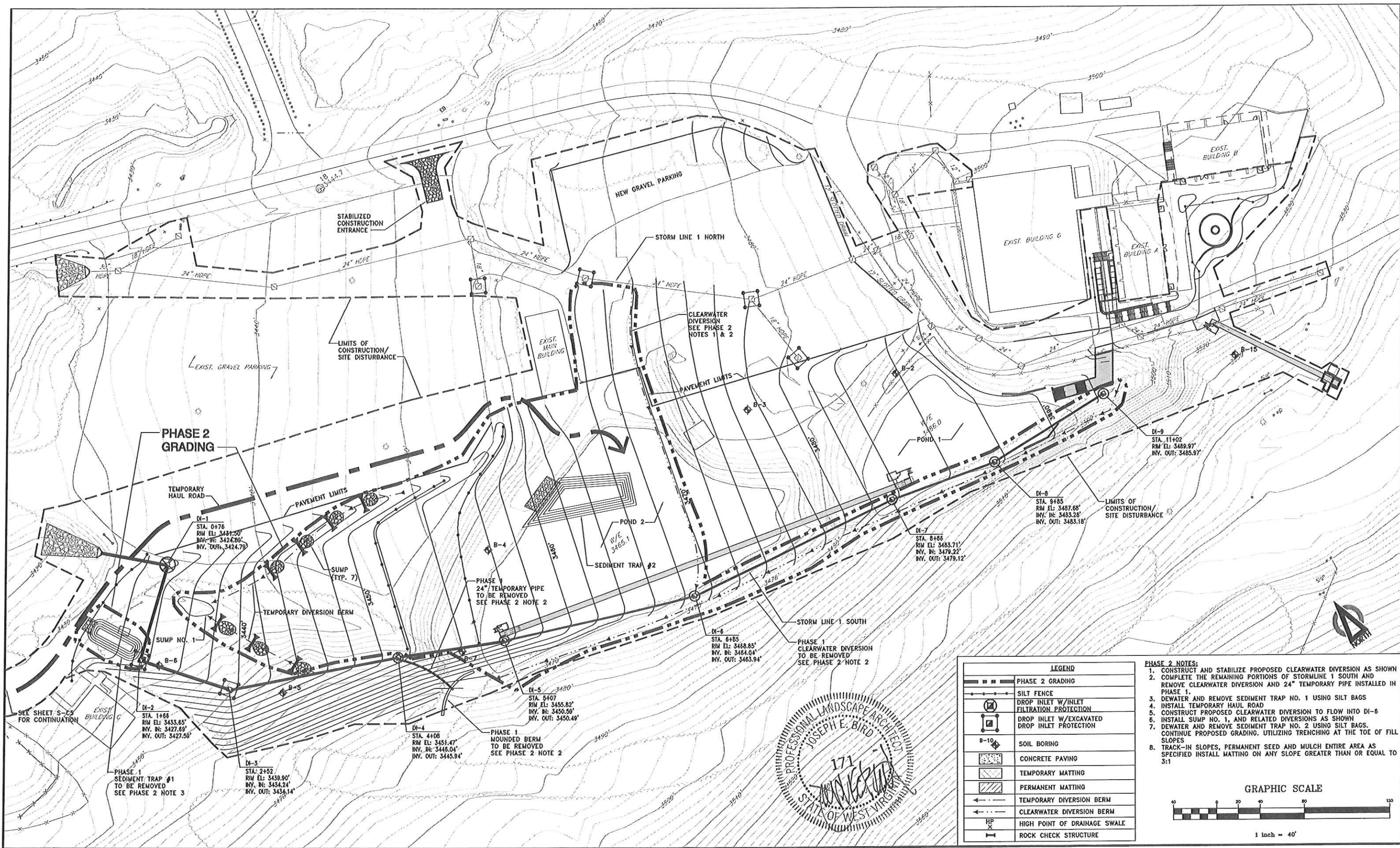
**SKI SCHOOL / BEGINNER SLOPE
SEDIMENT AND EROSION CONTROL
PHASE 1**

SEAL

JOB NUMBER: 11022
SCALE: 1" = 40'
DATE: MAY 2011
DRAWN BY: FLB
DESIGNED BY: RDD
CHECKED BY: JEB

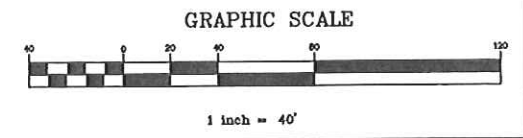
SHEET NO. **S-C1A**

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LEGEND	
	PHASE 2 GRADING
	SILT FENCE
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	DROP INLET W/EXCAVATED DROP INLET PROTECTION
	SOIL BORING
	CONCRETE PAVING
	TEMPORARY MATTING
	PERMANENT MATTING
	TEMPORARY DIVERSION BERM
	CLEARWATER DIVERSION BERM
	HIGH POINT OF DRAINAGE SWALE
	ROCK CHECK STRUCTURE

- PHASE 2 NOTES:**
1. CONSTRUCT AND STABILIZE PROPOSED CLEARWATER DIVERSION AS SHOWN
 2. COMPLETE THE REMAINING PORTIONS OF STORMLINE 1 SOUTH AND REMOVE CLEARWATER DIVERSION AND 24" TEMPORARY PIPE INSTALLED IN PHASE 1.
 3. DEWATER AND REMOVE SEDIMENT TRAP NO. 1 USING SILT BAGS
 4. INSTALL TEMPORARY HAUL ROAD
 5. CONSTRUCT PROPOSED CLEARWATER DIVERSION TO FLOW INTO DI-6
 6. INSTALL SUMP NO. 1, AND RELATED DIVERSIONS AS SHOWN
 7. DEWATER AND REMOVE SEDIMENT TRAP NO. 2 USING SILT BAGS. CONTINUE PROPOSED GRADING, UTILIZING TRENCHING AT THE TOE OF FILL SLOPES
 8. TRACK-IN SLOPES, PERMANENT SEED AND MULCH ENTIRE AREA AS SPECIFIED INSTALL MATTING ON ANY SLOPE GREATER THAN OR EQUAL TO 3:1



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**SKI SCHOOL / BEGINNER SLOPE
SEDIMENT AND EROSION CONTROL
PHASE 2**

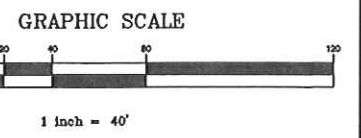
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DRAWN BY:	FLB
DESIGNED BY:	RDD
CHECKED BY:	JEB
SHEET NO.:	S-C1B

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LEGEND	
	PHASE 3 GRADING
	SILT FENCE
	DROP INLET W/INLET FILTRATION PROTECTION
	DROP INLET W/EXCAVATED DROP INLET PROTECTION
	SOIL BORING
	CONCRETE PAVING
	TEMPORARY MATTING
	PERMANENT MATTING
	TEMPORARY DIVERSION BERM
	CLEARWATER DIVERSION BERM
	HIGH POINT OF DRAINAGE SWALE
	ROCK CHECK STRUCTURE

- PHASE 3 NOTES:**
1. REMOVE SUMP NO. 1 IN PHASE 2 COMPLETE EARTHWORK OPERATIONS, SEED AND MULCH
 2. REMOVE TEMPORARY HAUL ROAD. RECLAIM AREA ACCORDING TO SPECIFICATIONS.
 3. INSTALL ROCK CHECKS IN DITCH AS SHOWN.
 4. TRACK-IN SLOPES, PERMANENT SEED AND MULCH ENTIRE AREA AS SPECIFIED INSTALL MATTING ON ANY SLOPE GREATER THAN OR EQUAL TO 3:1.



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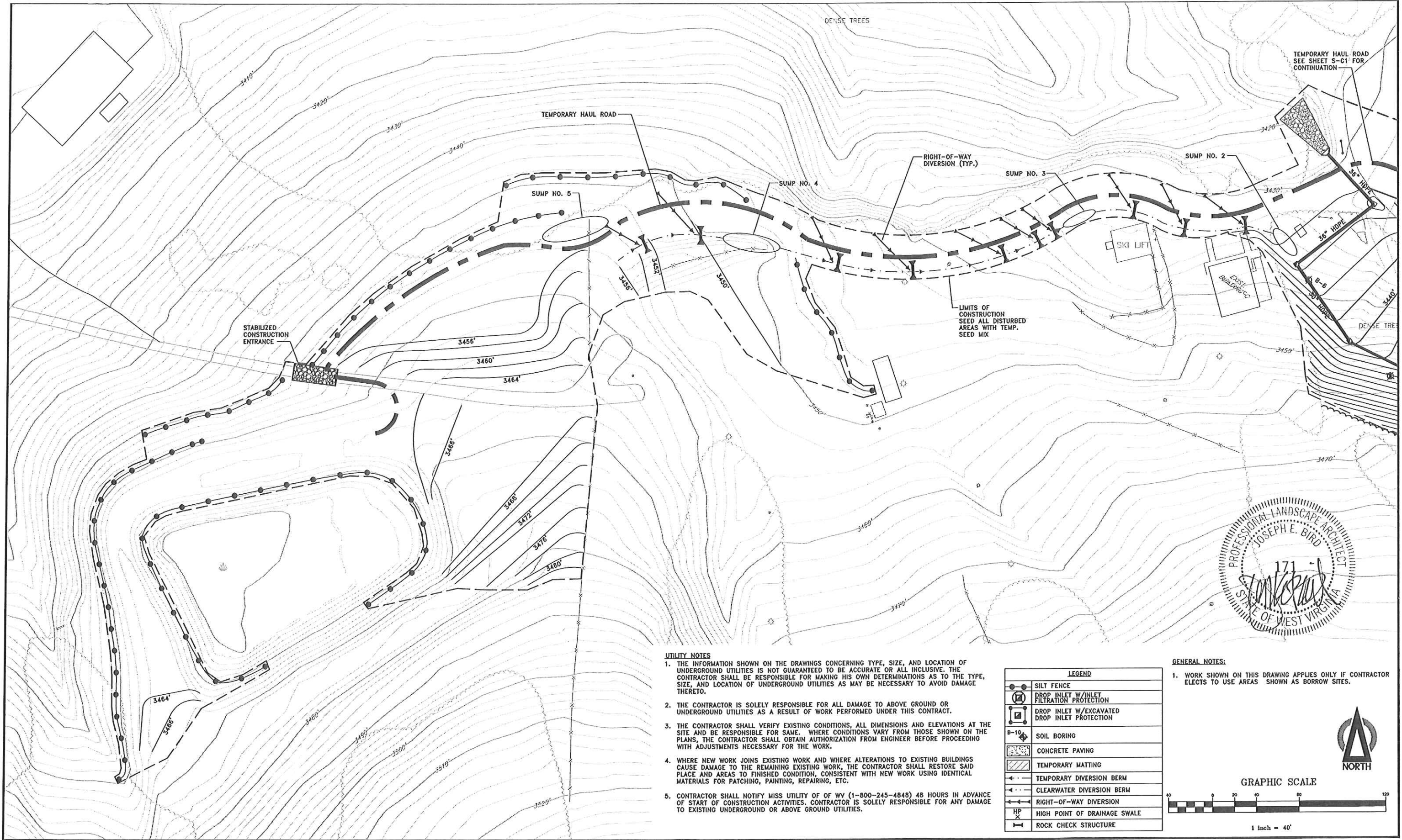
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Ski Area Improvements Project
Contract 5

**SKI SCHOOL / BEGINNER SLOPE
SEDIMENT AND EROSION CONTROL
PHASE 3**

SEAL

JOB NUMBER:	11022
SCALE:	1" = 40'
DATE:	MAY 2011
DRAWN BY:	FLB
DESIGNED BY:	RDD
CHECKED BY:	JEB
SHEET NO.	REVISION
S-C1C	

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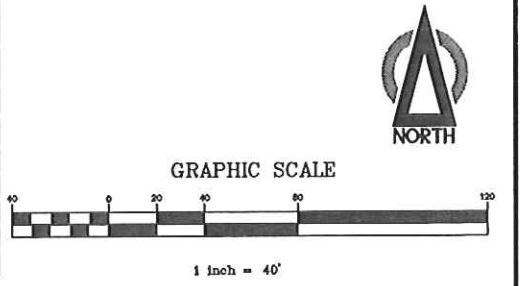
UTILITY NOTES

1. THE INFORMATION SHOWN ON THE DRAWINGS CONCERNING TYPE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE, SIZE, AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGE TO ABOVE GROUND OR UNDERGROUND UTILITIES AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT.
3. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, ALL DIMENSIONS AND ELEVATIONS AT THE SITE AND BE RESPONSIBLE FOR SAME. WHERE CONDITIONS VARY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM ENGINEER BEFORE PROCEEDING WITH ADJUSTMENTS NECESSARY FOR THE WORK.
4. WHERE NEW WORK JOINS EXISTING WORK AND WHERE ALTERATIONS TO EXISTING BUILDINGS CAUSE DAMAGE TO THE REMAINING EXISTING WORK, THE CONTRACTOR SHALL RESTORE SAID PLACE AND AREAS TO FINISHED CONDITION, CONSISTENT WITH NEW WORK USING IDENTICAL MATERIALS FOR PATCHING, PAINTING, REPAIRING, ETC.
5. CONTRACTOR SHALL NOTIFY MISS UTILITY OF WV (1-800-245-4848) 48 HOURS IN ADVANCE OF START OF CONSTRUCTION ACTIVITIES. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UNDERGROUND OR ABOVE GROUND UTILITIES.

LEGEND	
	SILT FENCE
	DROP INLET W/INLET FILTRATION PROTECTION
	DROP INLET W/EXCAVATED DROP INLET PROTECTION
	SOIL BORING
	CONCRETE PAVING
	TEMPORARY MATTING
	TEMPORARY DIVERSION BERM
	CLEARWATER DIVERSION BERM
	RIGHT-OF-WAY DIVERSION
	HIGH POINT OF DRAINAGE SWALE
	ROCK CHECK STRUCTURE

GENERAL NOTES:

1. WORK SHOWN ON THIS DRAWING APPLIES ONLY IF CONTRACTOR ELECTS TO USE AREAS SHOWN AS BORROW SITES.



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**BORROW AREA
SEDIMENT AND EROSION CONTROL
SITE PLAN**

SEAL

JOB NUMBER: 11022
SCALE: 1" = 40'
DATE: MAY 2011
DRAWN BY: FLB
DESIGNED BY: RDD
CHECKED BY: JEB

SHEET NO. **S-C5** REVISION

SEDIMENT AND EROSION CONTROL NOTES

A. GENERAL NOTES

1. IN ORDER TO PREVENT AND TO PROVIDE FOR ABATEMENT AND CONTROL OF ANY ENVIRONMENTAL POLLUTION ARISING FROM THEIR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONCERNING ENVIRONMENTAL POLLUTION CONTROL AND ABATEMENT, AS WELL AS SPECIFIC REQUIREMENTS AND CONDITIONS OF ANY NECESSARY PERMITS FOR CONSTRUCTION OBTAINED BY THE OWNER.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES ARE SUBJECT TO INSPECTION AND CHANGES BY THE WVDEP.
3. LIMIT THE AMOUNT OF TOTAL DISTURBANCE ON SITE TO A MINIMUM.
4. CONTRACTOR IS RESPONSIBLE TO KEEP A RECORD OF WHEN CONSTRUCTION ACTIVITIES HAVE BEGUN AND HAVE EITHER TEMPORARILY OR PERMANENTLY CEASED AND WHEN SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INITIATED, INSPECTED, MAINTAINED, AND REMOVED.
5. REVEGETATION - ALL WORK AREAS THAT ARE COMPLETELY FINISHED WILL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF COMPLETING CONSTRUCTION FOR THAT SPECIFIC AREA. AREAS THAT ARE TO BE RE-ENTERED WILL BE SEEDED AND MULCHED WITHIN TWO (2) WEEKS. PERMANENT VEGETATIVE COVER SHOULD BE COMPATIBLE WITH ADJACENT LAND AND/OR RESTORED TO ORIGINAL CONDITION. ALL AREAS WHERE TEMPORARY SEEDING OR MULCHING HAS BEEN APPLIED WILL BE PERMANENTLY SEEDED AND MULCHED IMMEDIATELY AFTER FINAL GRADING TO ESTABLISH VEGETATIVE COVER COMPATIBLE WITH ADJACENT LAND.
6. WASTE AREAS - THROUGH OBTAINING A NPDES STORMWATER SITE REGISTRATION PERMIT FROM WVDEP, THE ENGINEER HAS INCLUDED APPROXIMATELY 0.5 ACRES TO BE USED BY THE CONTRACTORS FOR WASTE SITES. THE CONTRACTORS WILL DETERMINE THE EXACT LOCATIONS OF EACH SITE WHICH WILL THEN BE ADDED TO THE PERMIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROLS AT EACH SITE INCLUDING, BUT NOT LIMITED TO, SILT FENCE, DIVERSION DITCHES, ROCK CHECK STRUCTURES, ETC. AS APPROPRIATE, AND THE RECLAMATION THEREOF ONCE CONSTRUCTION IS COMPLETE.
7. OTHER CONSTRUCTION PRACTICES - ANY WATER PUMPED FROM EXCAVATED AREAS SHALL NOT BE DISCHARGED DIRECTLY INTO ANY WATERCOURSE. ADEQUATE PROVISIONS MUST BE TAKEN TO PREVENT SEDIMENT AND EROSION FROM ENTERING THE WATERCOURSE.
8. ALL SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL BE TEMPORARILY MATTED.
9. OTHER CONSTRUCTION PRACTICES - ANY WATER PUMPED FROM EXCAVATED AREAS SHALL NOT BE DISCHARGED DIRECTLY INTO ANY WATERCOURSE. ADEQUATE PROVISIONS MUST BE TAKEN TO PREVENT SEDIMENT AND EROSION FROM ENTERING THE WATERCOURSE.
10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
11. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
12. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
13. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDING IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.

B. SEQUENCE OF EVENTS

1. INSTALL TEMPORARY SEDIMENT CONTROL DEVICES, AS NEEDED IN THE WORK AREA, PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. ALL TEMPORARY EARTHWORK STOCKPILES EXPECTED TO BE LEFT OPEN FOR MORE THAN SEVEN (7) DAYS SHALL BE TRACKED-IN AND TEMPORARILY SEEDED.
3. ALL PAVED SURFACES (CONCRETE, ASPHALT, RIP RAP, ETC.) SHALL BE INSTALLED AS SOON AS POSSIBLE UPON COMPLETION OF CONSTRUCTION.
4. REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ONCE PERMANENT VEGETATION HAS BECOME ESTABLISHED AND APPROVED BY WVDEP.

C. VEGETATIVE CONTROL (TEMPORARY AND PERMANENT)

1. EXISTING VEGETATION SHALL BE PRESERVED WHERE FEASIBLE.

D. STRUCTURAL CONTROLS

1. DIVERT WATER FROM UNDISTURBED UP SLOPE AREAS AROUND THE DISTURBED AREA/CONSTRUCTION SITE.
2. REMOVE SEDIMENT FROM STORM RUNOFF BEFORE IT LEAVES THE DISTURBED AREA USING APPROPRIATE MEANS.
3. EXISTING DROP INLETS WITHIN THE DISTURBED AREA SHALL BE PROTECTED BY INSTALLING INLET PROTECTION. IF IT IS THE OPINION OF THE ENGINEER THAT THIS OPTION IS NOT SUITABLE, THE CONTRACTOR SHALL FURNISH AND INSTALL AN INSIDE THE INLET SEDIMENT CONTROL DEVICE, SUCH AS THE SILTSACK AS MANUFACTURED BY ACF ENVIRONMENTAL, INC. OF RICHMOND, VA., OR EQUAL.

E. MAINTENANCE

1. INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES ON A REGULAR BASIS, AT LEAST ONCE PER EVERY SEVEN (7) DAYS, AND WITHIN 24 HOURS OF AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. ANY REPAIRS OR MAINTENANCE MUST BE MADE IMMEDIATELY.

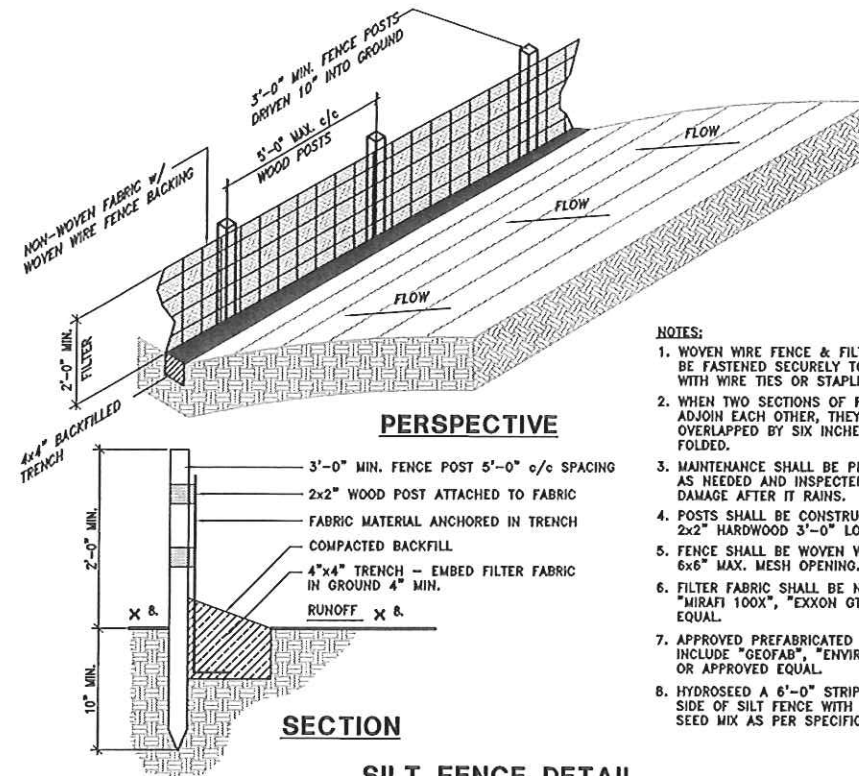
F. NPDES PERMIT VIOLATIONS/FINES

1. ANY FINE INCURRED BY THE OWNER FOR NPDES PERMIT VIOLATIONS DUE TO THE ACTIONS OR INACTION OF THE CONTRACTOR, WILL BE PAID BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. FAILURE OF THE CONTRACTOR TO PAY ANY SUCH FINES IN A TIMELY MANNER WILL RESULT IN THE OWNER WITHHOLDING SUCH FUNDS FROM THE CONTRACTOR'S PROGRESS PAYMENT AND OR RETAINAGE.

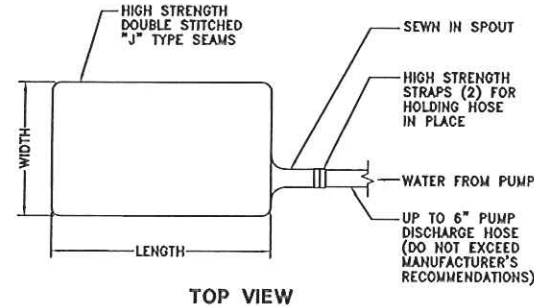
NOTES:

1. WOVEN WIRE FENCE & FILTER FABRIC TO BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND INSPECTED FOR DAMAGE AFTER IT RAINS.
4. POSTS SHALL BE CONSTRUCTED OF 2x2" HARDWOOD 3'-0" LONG.
5. FENCE SHALL BE WOVEN WIRE, 14 GA., 6x6" MAX. MESH OPENING.
6. FILTER FABRIC SHALL BE NON-WOVEN "MIRAFI 100X", "EXXON GTF 180", OR EQUAL.
7. APPROVED PREFABRICATED UNITS INCLUDE "GEOFAB", "ENVYOFENCE", OR APPROVED EQUAL.
8. HYDROSEED A 6'-0" STRIP ON EACH SIDE OF SILT FENCE WITH TEMPORARY SEED MIX AS PER SPECIFICATIONS.

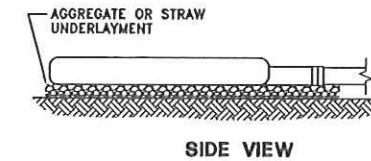
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SILT FENCE DETAIL
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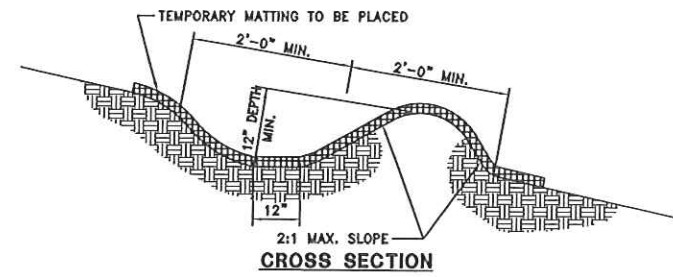


TOP VIEW

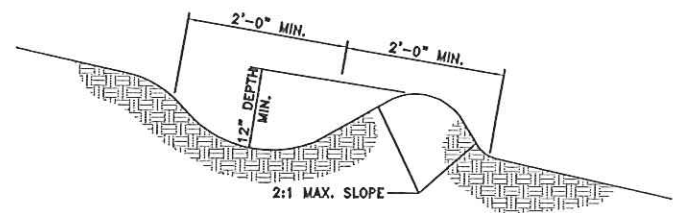


SIDE VIEW

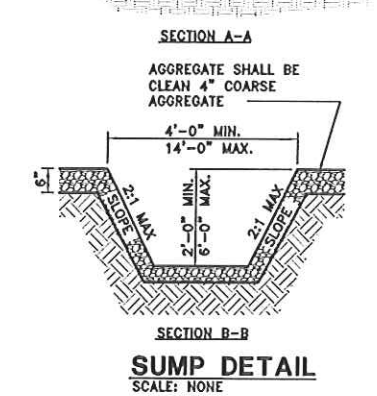
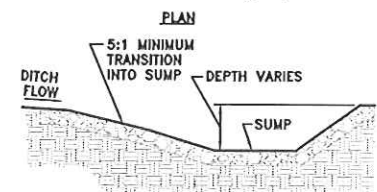
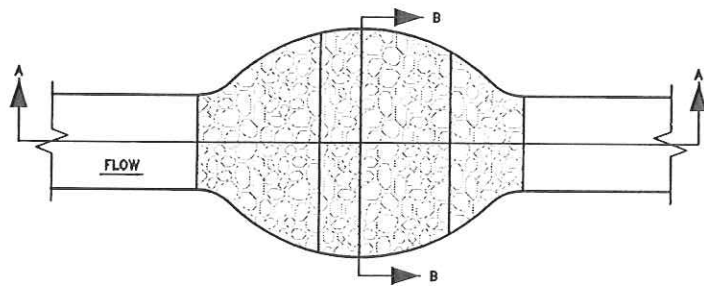
DEWATERING BAG
SCALE: NONE



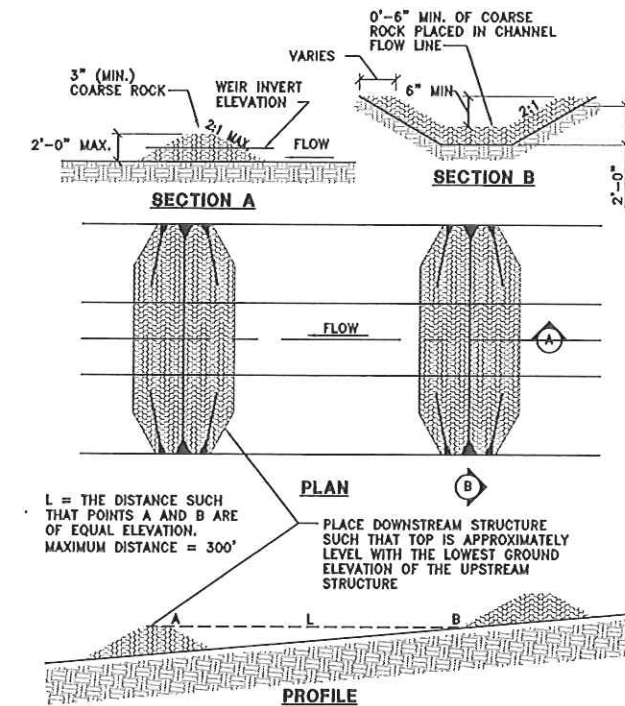
CLEARWATER DIVERSION BERM DETAIL
SCALE: NONE



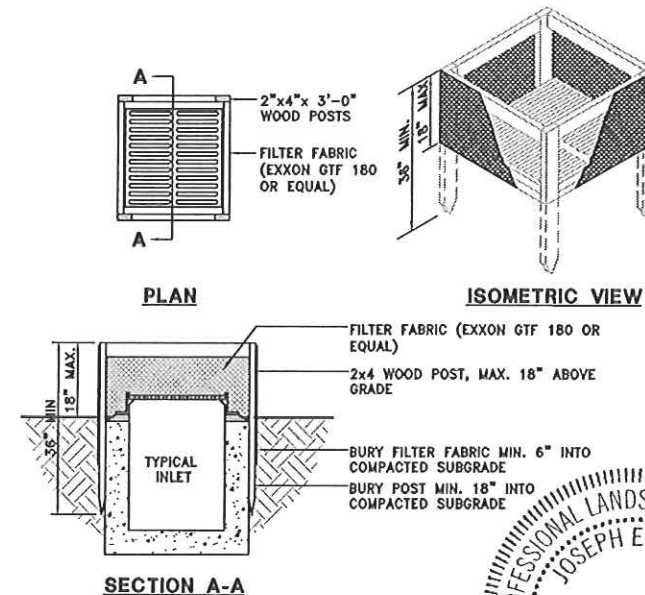
TEMPORARY DIVERSION DITCH DETAIL
SCALE: NONE (0227007)



SUMP DETAIL
SCALE: NONE



ROCK CHECK STRUCTURE
SCALE: NONE (0227010)



INLET INFILTRATION PROTECTION
SCALE: NTS



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Buckhannon, WV (304) 472-8914
Martinsburg, WV (304) 260-1222

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PROJECT INFORMATION

WV Division of Natural Resources
Parks and Recreation
Canaan Valley State Park Resort
Ski Area Improvements Project
Contract 5

SEDIMENT AND EROSION CONTROL SITE DETAILS

SEAL

JOB NUMBER: 11022
SCALE: AS NOTED
DATE: MAY 2011
DRAWN BY: LDA
DESIGNED BY: RDD
CHECKED BY: JEB

SHEET NO. **S-C6** REVISION 1