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WATER RIGHT REPORT

6/19/2019

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report

WATER RIGHT NO. 95-9045

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	BLACK ROCK UTILITIES INC C/O ASSOCIATION SERVICES INC 1110 W PARK PL STE 101 COEUR D ALENE, ID 83814 2086768626
Attorney	CHRISTOPHER H MEYER GIVENS PURSLEY LLP PO BOX 2720 BOISE, ID 83701-2720 2083881200
Original Owner	CAG INVESTMENTS LLC PO BOX 3070 COEUR D ALENE, ID 83816 2087553200

Priority Date: 04/12/2000

Basis: License

Status: Active

<u>Source</u>	<u>Tributary</u>
COEUR D ALENE LAKE	SPOKANE RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
MUNICIPAL	01/01	12/31	2.5 CFS	1215 AFA
Total Diversion			2.5 CFS	

Location of Point(s) of Diversion:

COEUR D ALENE LAKE|NENE Lt 1|Sec. 16|Township 48N|Range 04W|KOOTENAI County

Place(s) of use: Large POU Info

Conditions of Approval:

1. Irrigation shall be limited to not more than 545 acres within the service area of the water right holder. The service area encompasses Sections 4, 5, 8, 9, 16, and 17, Township 48 North, Range 4 West, Kootenai County.
2. The owner of this right shall meter and record its diversions from Lake Coeur d'Alene under this right and its diversions out of each water storage unit and shall report annually to IDWR on or before January 10 of each year the total annual diversions from the lake and from storage. Such reports shall be matters of public record.
3. The owner of this right shall install or require to be installed a meter for each of its customers served by this right. The meter shall measure and record the quantity of water delivered to that customer.
4. The right holder shall install and maintain a fish screen at the point of diversion with ¼ inch or smaller screen mesh.
5. Total annual refill volume for seepage, evaporation, and depletions from the ponds for irrigation shall not exceed 246 acre feet.
6. The right holder shall install and maintain impervious liners on the ponds authorized under this right unless the right holder can show that the strata underlying a pond is sufficiently impervious that it will mimic the flow impedance of an impervious liner.
7. Municipal use is for irrigation, diversion to storage, aesthetic storage, irrigation storage, irrigation from storage, and fire protection.
8. The total annual volume for all storage and storage uses shall not exceed 369 acre feet.
9. Aesthetic and irrigation storage is within the service area of the water right holder.
10. The right holder shall comply with all water quality statutes and rules administered by the Idaho Department of Environmental Quality.
11. Total physical storage is limited to 123 acre feet.
12. Direct flow use and diversions from storage under this right are limited to irrigation of 545 acres of turf and landscaping and for fire protection. In addition, water diverted under this right may be used for dust suppression and related construction purposes during the initial development and build-out of the project. In this condition, the phrase "direct flow use" will be narrowly interpreted to apply only to the immediate uses of water directly diverted from Lake Coeur d'Alene unrelated to storage, primarily irrigation use.
13. Water may only be diverted and used for irrigation from March 15 through November 15.

Dates:

Licensed Date: 10/25/2010

Decreed Date:

Permit Proof Due Date: 9/1/2010

Permit Proof Made Date: 8/20/2010

Permit Approved Date: 10/20/2000

Permit Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Water Supply Bank Enrollment Date Accepted:

Water Supply Bank Enrollment Date Removed:

Application Received Date: 04/12/2000

Protest Deadline Date:

Number of Protests: 0

Other Information:

State or Federal:

Owner Name Connector:

Water District Number: NWD

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

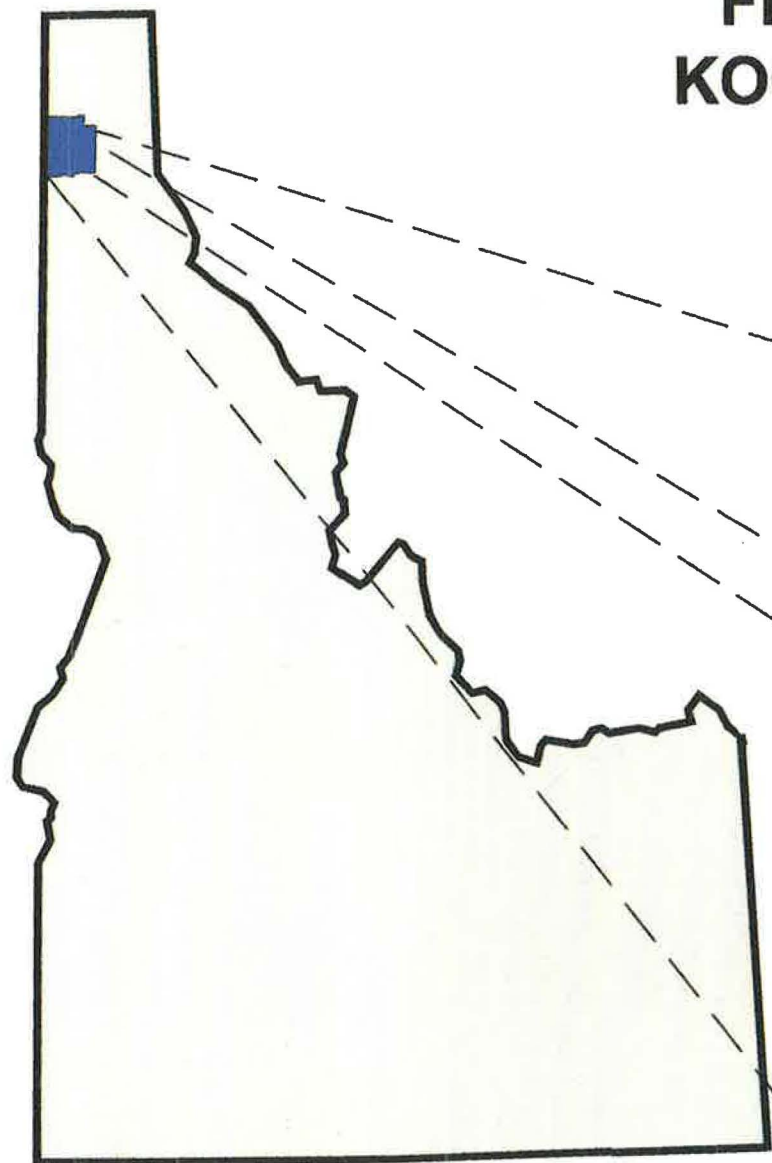
DLE Act Number:

Cary Act Number:

Mitigation Plan: False

BLACK ROCK UTILITY IRRIGATION AND FIRE PROTECTION POND KOOTENAI COUNTY, IDAHO

COPY



IDAHO STATE MAP
SCALE: NTS

REVIEWED BY:	DCD
DATE:	04/16/2019



VICINITY MAP
SCALE: NTS

RECEIVED
JUL 01 2019
IDWR / NORTH



GRAPHIC SCALE

ENGINEERS STAMP



5-31-19

REVISIONS

#	DESCRIPTION	DATE



CONSULTANTS IN THE EARTH AND ENVIRONMENTAL SCIENCES

8704 DALTON AVE
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(509) 563-5242
WWW.INLANDEARTH.COM

PROJECT:
**BLACK ROCK
UTILITY IRRIGATION AND
FIRE PROTECTION POND
KOOTENAI COUNTY, IDAHO**

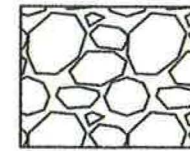
DRAWN BY: TGL	DATE: 05/22/19
APPROVED BY: SH	CONTRACT BLACKROCK
DATE: 05/22/2019	SCALE: NTS

DRAWING NAME:
TITLE
SHEET NO.:
T-01

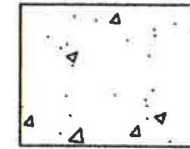
SHEET INDEX

DRAWING NAME	SHEET NUMBER
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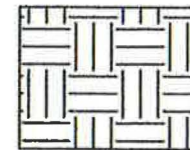
HATCH PATTERN LEGEND DRAWING SCALES VARY



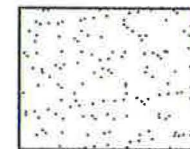
GRAVEL



CONCRETE



EARTH

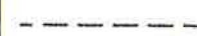


ASPHALT

LINE TYPE LEGEND DRAWING SCALES VARY



BERM LOCATION



AGRU DRAINLINER



OVERHEAD POWER



EXISTING CONTOUR



MINOR CONTOUR LINE



MAJOR CONTOUR LINE



FEATURE LINE



ALIGNMENT

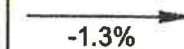
DRAWING SYMBOL LEGEND DRAWING SCALES VARY



CONSTRUCTION
CONTROL POINT



SPOT ELEVATION



GRADE SLOPE



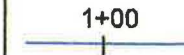
NORTH ARROW



DRAWING SCALE BAR



CONTOUR ELEVATION



ALIGNMENT STATION

GRAPHIC SCALE

ENGINEERS STAMP



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DRAWN BY: TGL	DATE: 05/22/19
APPROVED BY: SH	CONTRACT BLACKROCK
DATE: 05/22/2019	SCALE: NTS

DRAWING NAME:
NOTES AND LEGEND
SHEET NO.:
T-02

GENERAL

1. CONTRACTOR TO LOCATE AND PROTECT ALL UTILITIES.
2. ANY UTILITIES WITHIN PROJECT GRADING LIMITS WILL NEED TO BE RELOCATED OUTSIDE OF GRADING LIMITS. CONTRACTOR WILL COORDINATE RELOCATION WITH OWNER AND UTILITY.
3. ALL MATERIAL VOLUME ESTIMATES REPRESENT BANK VOLUME ESTIMATES. ACTUAL QUANTITIES MAY DIFFER DEPENDANT ON HANDLING, COMPACTION, AND SITE CONDITIONS.
4. THE DESIGN CONTAINED IN THIS PACKAGE DOES NOT INCLUDE STORM WATER POLLUTION PREVENTION PLAN.

CLEARING AND GRUBBING

1. ALL VEGETATION AND ORGANIC MATERIALS WILL BE REMOVED FROM WITHIN GRADING LIMITS PRIOR TO INITIATION OF GRADING ACTIVITIES.
2. CLEARING AND GRUBBING MAY BE PERFORMED IN A STAGED MANNER DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
3. NO VEGETATION OR ORGANIC MATERIALS ARE ALLOWED IN FILL MATERIAL OR AREAS WHERE FILL MATERIAL WILL BE PLACED.

CORE TRENCH

1. A 10 FOOT WIDE CORE TRENCH WILL BE EXCAVATED FROM EXISTING GROUND SURFACE TO BEDROCK IN THE AREAS INDICATED ON DESIGN SHEET C-03.
2. CORE TRENCH EXCAVATION WILL EXTEND TO STABLE BEDROCK. INSPECTION REQUIRED BY ENGINEER. CONTRACTOR WILL MAKE ALL EFFORTS TO REMOVE ALL LOOSE ROCK FROM THE BOTTOM OF THE CORE TRENCH.
3. CORE TRENCH WILL BE BACKFILLED USING ML/CL SOILS AS DIRECTED BY THE ENGINEER.
4. NO ROCKS GREATER THAN 3 INCHES IN DIAMETER WILL BE PRESENT IN CORE TRENCH BACKFILL MATERIALS.
5. CORE TRENCH BACK FILL MATERIAL WILL BE PLACED IN CORE TRENCH IN LOOSE LIFTS NOT TO EXCEED 6 INCHES IN DEPTH AND COMPACTED TO A MINIMUM OF 90 PERCENT MODIFIED PROCTOR DENSITY WITH A WATER CONTENT BETWEEN OPTIMUM AND 2 PERCENT GREATER THAN OPTIMUM.
6. COMPACTION OF CORE TRENCH MATERIAL WILL BE PERFORMED BY SHEEP'S FOOT ROLLER, FLAT ROLLER, OR VIBRATORY PAD EQUIPMENT.
7. COMPACTION WILL BE VERIFIED BY TESTING IN THE FIELD AND REPORTED TO THE ENGINEER.
8. IF COMPACTION EFFORTS RESULT IN A FLAT COMPACTED SURFACE, THE SURFACE WILL BE LIGHTLY SCARIFIED PRIOR TO PLACEMENT OF THE FOLLOWING LOOSE MATERIAL LIFT.
9. DURING CORE TRENCH EXCAVATION AND BACKFILL, THAT PORTION OF THE UNDERDRAIN CONVEYANCE TRENCH AND PIPING THAT INTERSECT THE CORE TRENCH WILL BE CONSTRUCTED CONCURRENTLY.

POND EXCAVATION AND EMBANKMENT CONSTRUCTION

1. SOIL EXCAVATION WILL OCCUR TO THE DEPTHS SHOWN ON DESIGN SHEET C-04.
2. SOIL EXCAVATED FROM THE POND IS SUITABLE FOR USE IN THE CONSTRUCTION OF POND EMBANKMENTS AFTER REMOVAL OF ROCKS GREATER THEN 3 INCHES IN DIAMETER.
3. NO ROCKS GREATER THAN 3 INCHES IN DIAMETER WILL BE INCLUDED IN EMBANKMENTS.
4. CONTRACTOR WILL BE RESPONSIBLE FOR ANY MATERIAL SCREENING PROCESSING THAT MAY BE REQUIRED TO REMOVE ALL ROCKS GREATER THAN 3 INCHES IN DIAMETER.
5. EXCESSIVELY WET MATERIALS WILL NOT BE USED FOR CONSTRUCTION OF EMBANKMENTS.
6. DURING EMBANKMENT CONSTRUCTION, THAT PORTION OF THE UNDERDRAIN CONVEYANCE TRENCH AND PIPING THAT INTERSECTS OR ARE BELOW THE EMBANKMENT WILL BE CONSTRUCTED CONCURRENTLY.
7. EMBANKMENT CONSTRUCTION WILL BE COMPLETED BY PLACING MATERIAL IN LOOSE LIFTS NO GREATER THAN 6 INCHES AND COMPACTING MATERIAL TO A MINIMUM OF 95 PERCENT OF MODIFIED PROCTOR DENSITY WITH A WATER CONTENT BETWEEN OPTIMUM AND 2 PERCENT ABOVE OPTIMUM.
8. COMPACTION OF EMBANKMENTS WILL BE PERFORMED WITH SHEEP'S FOOT ROLLER, FLAT ROLLER, OR VIBRATORY PAD EQUIPMENT.
9. COMPACTION WILL BE VERIFIED BY TESTING IN THE FIELD AND REPORTED TO THE ENGINEER.
10. IF COMPACTION EFFORTS RESULT IN A FLAT COMPACTED SURFACE, THE SURFACE WILL BE LIGHTLY SCARIFIED PRIOR TO THE PLACEMENT OF THE FOLLOWING LOOSE MATERIAL LIFT.
11. UPON COMPLETION OF EMBANKMENT CONSTRUCTION, THE OUTSIDE SURFACE OF THE EMBANKMENT WILL BE WALKED WITH TRACKED EQUIPMENT PERPENDICULAR TO THE SLOPE TO PROVIDE A ROUGHENED SURFACE.
12. ROUGHENED SLOPES WILL BE HYDROSEEDING FOLLOWING CONSTRUCTION USING A SEED MIX IDENTIFIED BY THE OWNER.

POND EXCAVATION AND EMBANKMENT CONSTRUCTION CONTINUED

13. IN AREAS WHERE EXCESS FILL MAY BE ADDED TO THE OUTSIDE EDGES OF THE CONSTRUCTED EMBANKMENT, SEEDING OF THE EMBANKMENT MAY WAIT UNTIL GRADING ACTIVITIES ARE COMPLETED.

BEDROCK REMOVAL

1. BEDROCK WILL BE REMOVED TO THE DEPTHS AND EXTENTS INDICATED ON DESIGN SHEET C-05 BY A METHOD DETERMINED BY THE CONTRACTOR AND AGREED TO BY THE OWNER.
2. IF BEDROCK REMOVAL IS PERFORMED USING BLASTING, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PREPARATION, PERMITTING, AND IMPLEMENTATION OF ALL BLASTING ACTIVITIES.
3. ROCK REMOVED FROM THE BEDROCK REMOVAL AREA WILL BE STOCKPILED AND USED FOR SPILLWAY ARMORING, UNDERDRAIN OUTLET PROTECTION, AND DECORATIVE ROCK FEATURES AROUND THE PERIMETER OF THE POND. STOCKPILE LOCATION TO BE DETERMINED BY OWNER AND ENGINEER ON SITE.

UNDERDRAIN SYSTEM

1. AN UNDERDRAIN COLLECTION TRENCH AND COLLECTION SUMP WILL BE CONSTRUCTED INTO BEDROCK AS SHOWN ON DESIGN SHEET C-06.
2. CONSTRUCTION OF THE UNDERDRAIN CONVEYANCE TRENCH AND PIPING MAY BE THROUGH BOTH NATIVE SOIL AND BEDROCK DEPENDANT UPON SITE CONDITIONS.
3. THE UNDERDRAIN CONVEYANCE PIPE WILL BE DAYLIGHTED TO NATIVE GROUND SURFACE AS SHOWN ON DESIGN SHEET C-06. OUTLET PROTECTION WILL BE PROVIDED AS SHOWN ON DESIGN SHEET D-03.
4. ALL DISTURBED AREAS IN THE UNDERDRAIN CONVEYANCE PIPE OUTLET AREA WILL BE HYDROSEEDING FOLLOWING PLACEMENT OF OUTLET PROTECTION.

SPILLWAY

1. AN ARMORED SPILLWAY WILL BE CONSTRUCTED IN THE SOUTHWEST CORNER OF THE POND.
2. THE CREST ELEVATION OF THE SPILLWAY WILL NOT EXCEED 2594.5 FEET ABOVE MEAN SEA LEVEL.
3. THE LOCATION AND DETAILS FOR THE CONSTRUCTION OF THE SPILL WAY ARE INCLUDED ON DESIGN SHEETS C-07 AND D-01.
4. THE DOWN STREAM END OF THE SPILLWAY WILL BE BLENDED TO THE NATIVE GROUND SURFACE AND ALL DISTURBED AREAS WILL BE SEEDING.

LINER SUBGRADE

1. THE EXCAVATED AREA WILL BE PREPARED FOR LINER INSTALLATION AS SHOWN ON DESIGN SHEET C-08
2. IN AREAS WHERE EXPOSED BEDROCK IS PRESENT, A MINIMUM OF 6 INCHES OF COMPACTED NATIVE SOILS WILL BE PLACED TO ACT AS A CUSHION LAYER FOR THE HDPE LINER.
3. ALL SOIL SURFACES WILL BE GRADED SMOOTH AND FLAT AND NO ROCKS GREATER THAN 3/8 OF AN INCH IN DIAMETER WILL BE PRESENT.
4. PRIOR TO LINER INSTALLATION, THE SUBGRADE WILL BE INSPECTED BY THE CONTRACTOR, ENGINEER AND LINER INSTALLATION CONTRACTOR. ANY DEFECTS TO THE LINER SUBGRADE WILL BE CORRECTED PRIOR TO THE INSTALLATION OF THE HDPE LINER.
5. A CONTINUOUS ANCHOR TRENCH WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE POND AS SHOWN ON DESIGN SHEETS C-08 AND D-01.

HDPE LINER

1. A 40 MIL TEXTURED HDPE LINER WILL BE USED FOR LINING THE POND. CONTRACTOR TO SUBMIT SPECIFICATIONS TO ENGINEER FOR REVIEW AND APPROVAL.
2. THE LINER WILL BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS.
3. ALL QUALITY ASSURANCE/QUALITY CONTROL TESTING OF THE LINER MATERIALS AND SEAMS WILL BE CONDUCTED ACCORDING TO MANUFACTURE RECOMMENDATIONS.
4. DURING LINER INSTALLATION, SAND BAGS WILL BE USED TO HOLD THE LINER FLUSH TO THE DECORATIVE ROCK BENCH AREA. SAND BAGS MAY BE REMOVED AS PLACEMENT OF GEOTEXTILE AND SOIL CUSHION IS OCCURRING.
5. THE ANCHOR TRENCH WILL BE BACKFILLED AND COMPACTED FOLLOWING LINER PLACEMENT AND PRIOR TO PLACEMENT OF THE DECORATIVE ROCK.
6. AT THE RECOMMENDATION OF THE LINER INSTALLATION CONTRACTOR, VENTS MAY BE ADDED TO THE UPPER PERIMETER OF LINER TO ALLOW FOR THE ESCAPE OF ENTRAINED AIR UNDER THE LINER DURING INITIAL POND FILLING.
7. DECORATIVE ROCK PLACEMENT ON THE UPPER BENCH OF THE POND WILL OCCUR AT THE DIRECTION OF THE OWNER. DECORATIVE ROCK PLACEMENT SHOWN IN THIS DESIGN IS FOR INFORMATIONAL PURPOSES ONLY.
8. EXTREME CARE WILL BE TAKEN BY THE CONTRACTOR TO ENSURE THAT THE PLACEMENT OF DECORATIVE ROCK DOES NOT DAMAGE THE 40 MIL HDPE LINER.

GRAPHIC SCALE

ENGINEERS STAMP



5-31-19

REVISIONS

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KOOTENAI COUNTY, IDAHO**

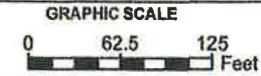
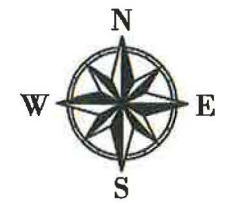
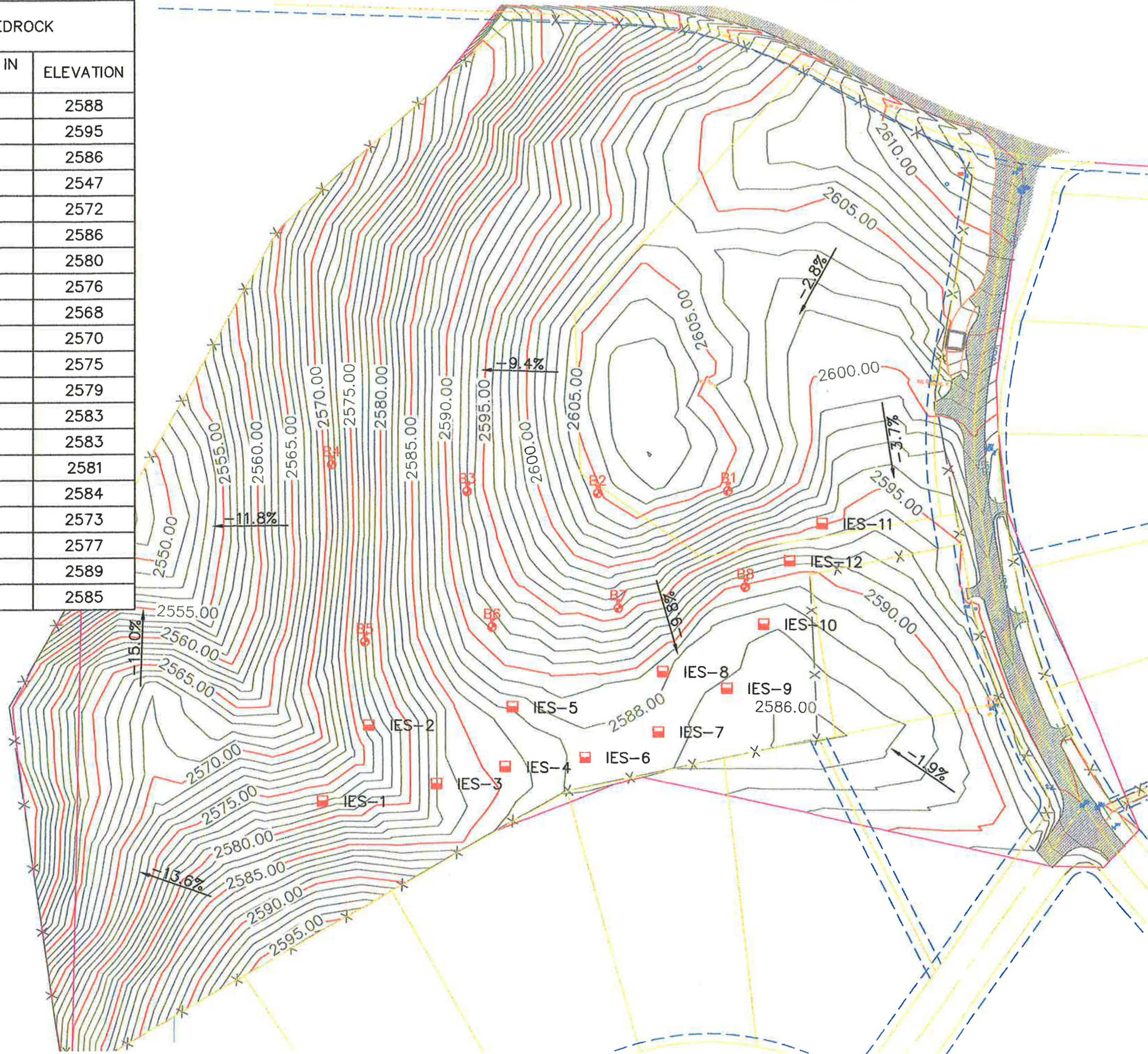
DRAWN BY: TGL	DATE: 05/22/19
APPROVED BY: SH	CONTRACT BLACK ROCK
DATE: 05/22/2019	SCALE: NTS

DRAWING NAME:
GENERAL NOTES

SHEET NO.:

T-03

DEPTH TO BEDROCK		
BORING/TEST PIT	DEPTH IN FEET	ELEVATION
B1	16	2588
B2	11	2595
B3	7	2586
B4	25	2547
B5	6	2572
B6	5	2586
B7	16	2580
B8	14	2576
IES-1	9	2568
IES-2	7	2570
IES-3	8	2575
IES-4	7	2579
IES-5	5	2583
IES-6	5	2583
IES-7	7	2581
IES-8	5	2584
IES-9	14	2573
IES-10	11	2577
IES-11	6	2589
IES-12	7	2585



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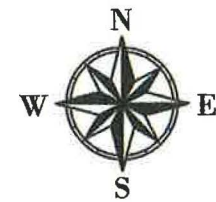
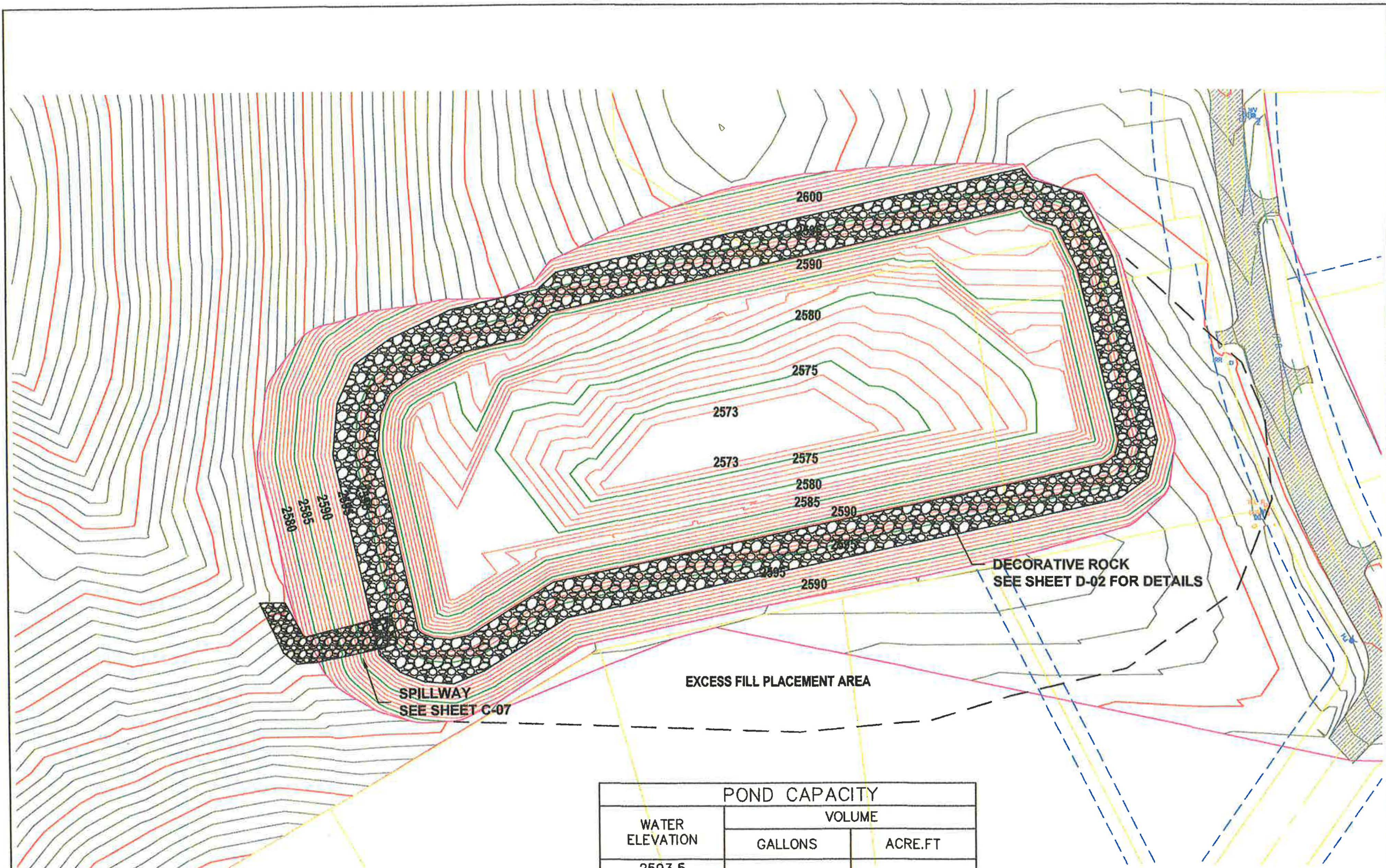


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DRAWN BY: TGL	DATE: 05/22/19
APPROVED BY: SH	CONTRACT BLACKROCK
DATE: 05/22/2019	SCALE: 1"=125'

DRAWING NAME:
EXISTING CONDITIONS
SHEET NO.:
C-01



GRAPHIC SCALE
0 40 80 Feet

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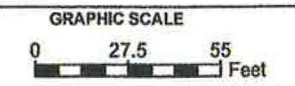
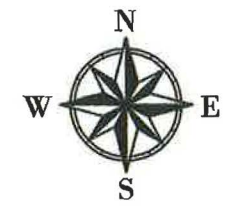
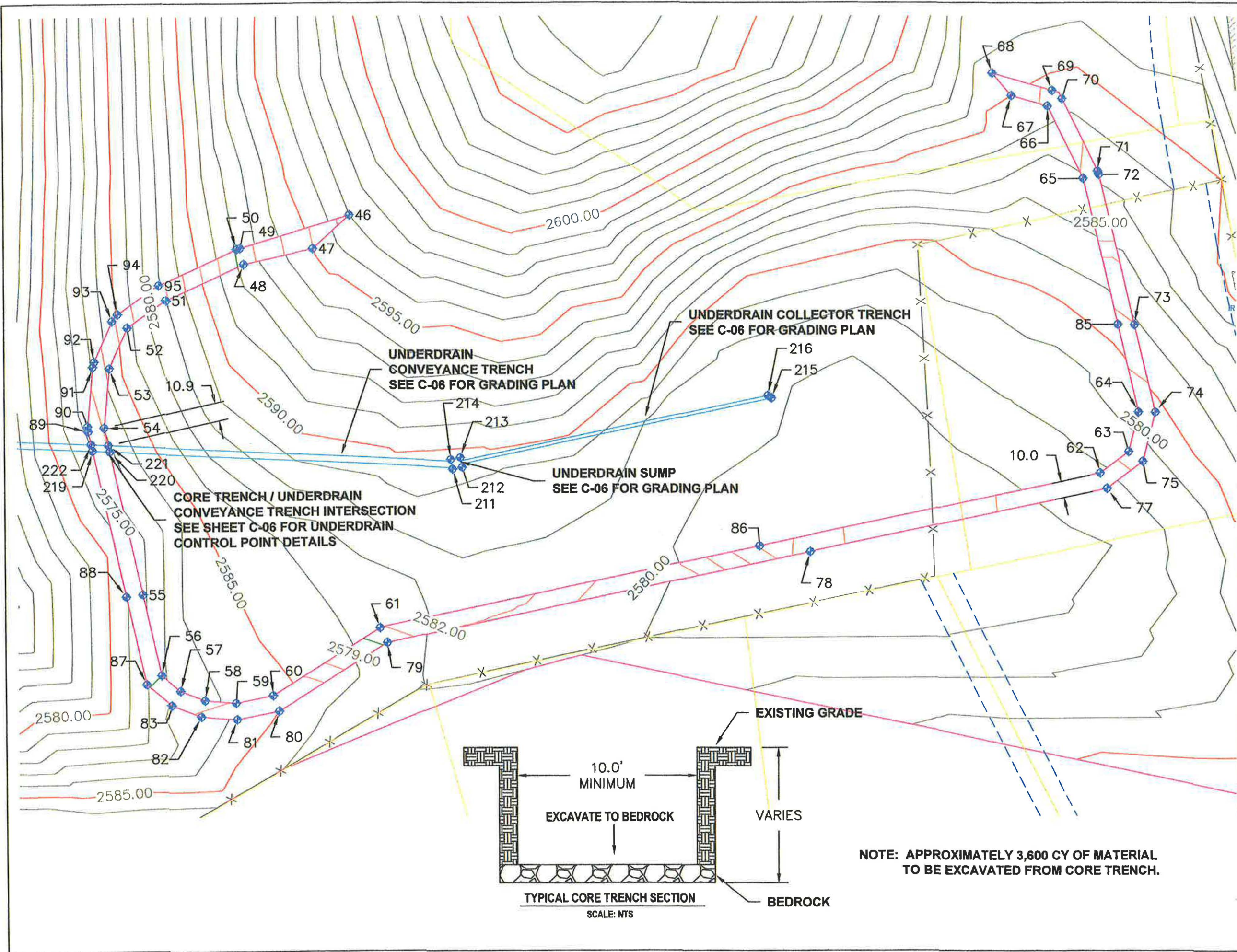
DATE: 05/22/2019 SCALE: 1"=80'

DRAWING NAME:
BLACK ROCK UTILITY POND
SHEET NO.:

C-02

WATER ELEVATION	POND CAPACITY	
	VOLUME	
	GALLONS	ACRE.FT
2593.5 (MAX OPERATING LEVEL)	10,782,090.51	33.09
2594.5 (FULL)	11,808,791.67	36.24

EFFECTIVE TOP OF EMBANKMENT - 2594.5
LOWEST POINTS AT TOE OF EMBANKMENT - 2575.15
EMBANKMENT EFFECTIVE HEIGHT - 19.35'



ENGINEERS STAMP



REVISIONS

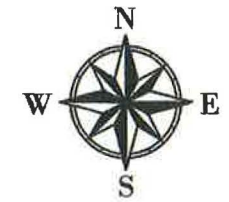
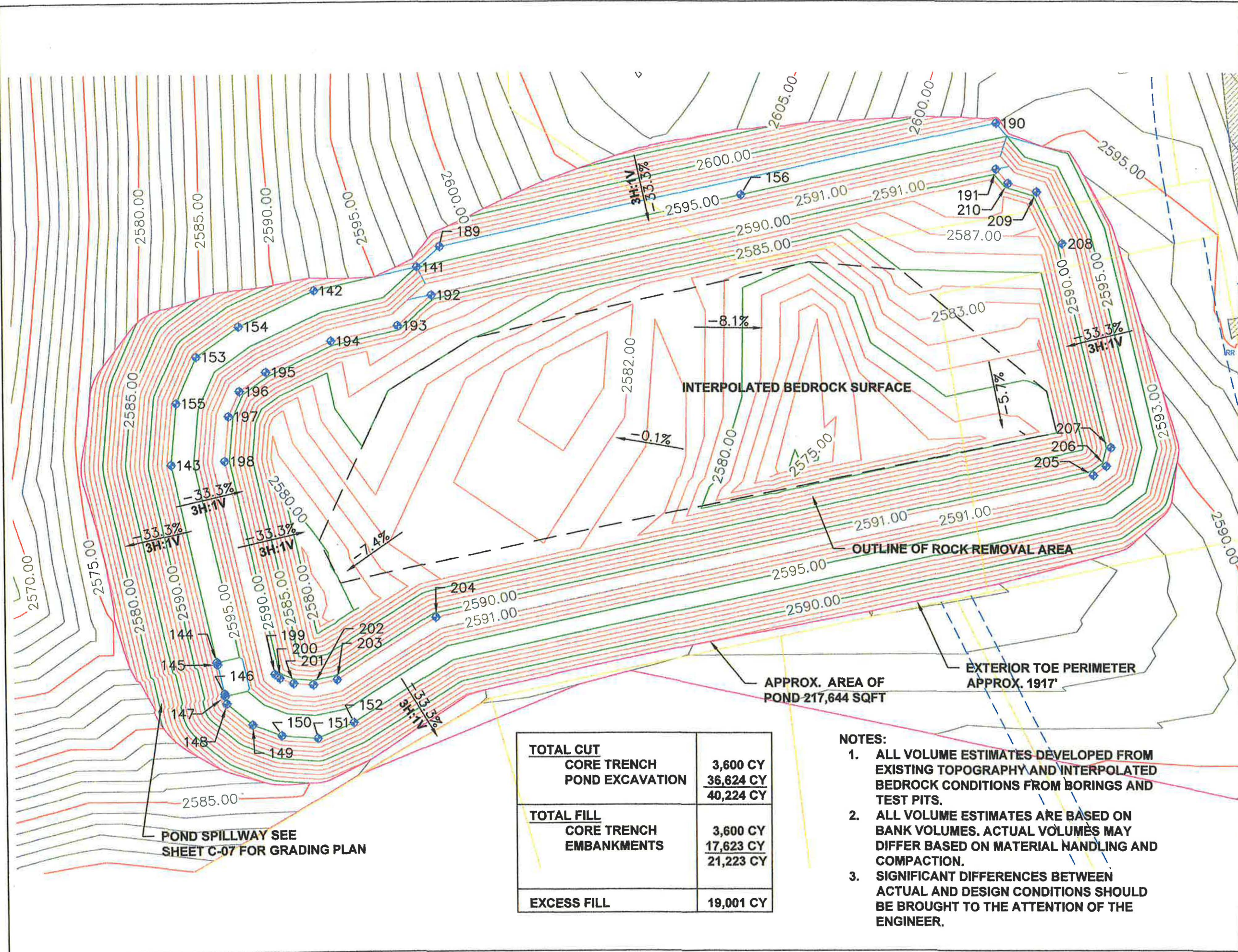
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DATE: 05/22/2019	SCALE: 1"=55'

DRAWING NAME:
CORE TRENCH EXCAVATION PLAN
SHEET NO.:
C-03



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APPROVED BY: SH CONTRACT: BLACKROCK

DATE: 05/22/2019 SCALE: 1"=60'

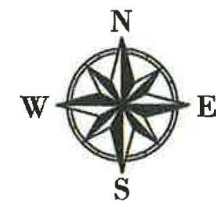
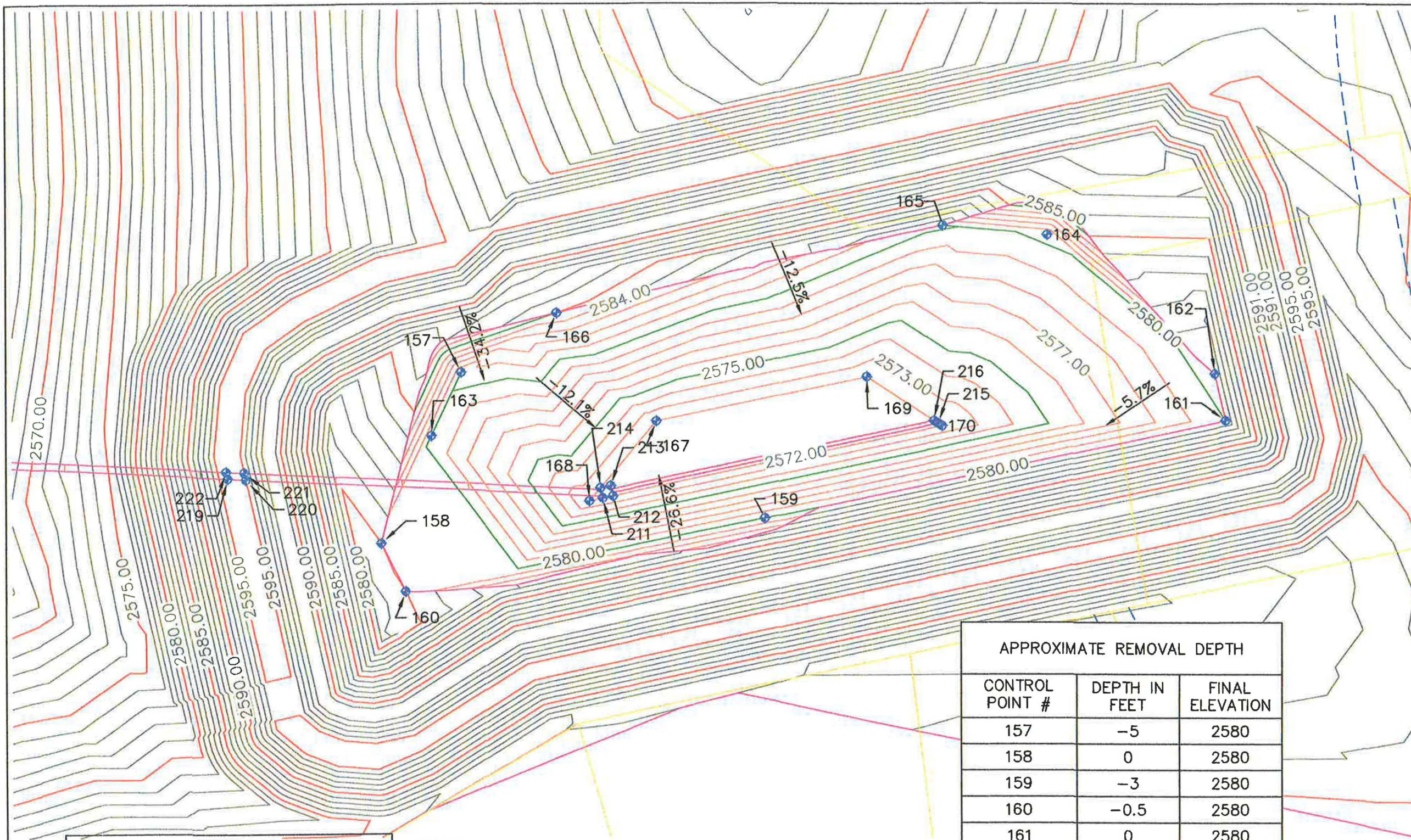
DRAWING NAME: INITIAL EXCAVATION AND EMBANKMENT BUILD OUT
SHEET NO.:

C-04

TOTAL CUT	
CORE TRENCH	3,600 CY
POND EXCAVATION	36,624 CY
	40,224 CY
TOTAL FILL	
CORE TRENCH	3,600 CY
EMBANKMENTS	17,623 CY
	21,223 CY
EXCESS FILL	19,001 CY

NOTES:

1. ALL VOLUME ESTIMATES DEVELOPED FROM EXISTING TOPOGRAPHY AND INTERPOLATED BEDROCK CONDITIONS FROM BORINGS AND TEST PITS.
2. ALL VOLUME ESTIMATES ARE BASED ON BANK VOLUMES. ACTUAL VOLUMES MAY DIFFER BASED ON MATERIAL HANDLING AND COMPACTION.
3. SIGNIFICANT DIFFERENCES BETWEEN ACTUAL AND DESIGN CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.



GRAPHIC SCALE
0 30 60 Feet

ENGINEERS STAMP



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CONSULTANTS IN THE EARTH AND ENVIRONMENTAL SCIENCES

8704 DALTON AVE
SPOKANE, WASHINGTON 99212
(509) 563-5242
WWW.INLANDEARTH.COM

PROJECT:

**BLACK ROCK
UTILITY IRRIGATION AND
FIRE PROTECTION POND
KOOTENAI COUNTY, IDAHO**

DRAWN BY: TGL DATE: 05/22/19

APPROVED BY: SH CONTRACT BLACKROCK

DATE: 05/22/2019 SCALE: 1"=60'

DRAWING NAME: ROCK REMOVAL AREA

SHEET NO.:

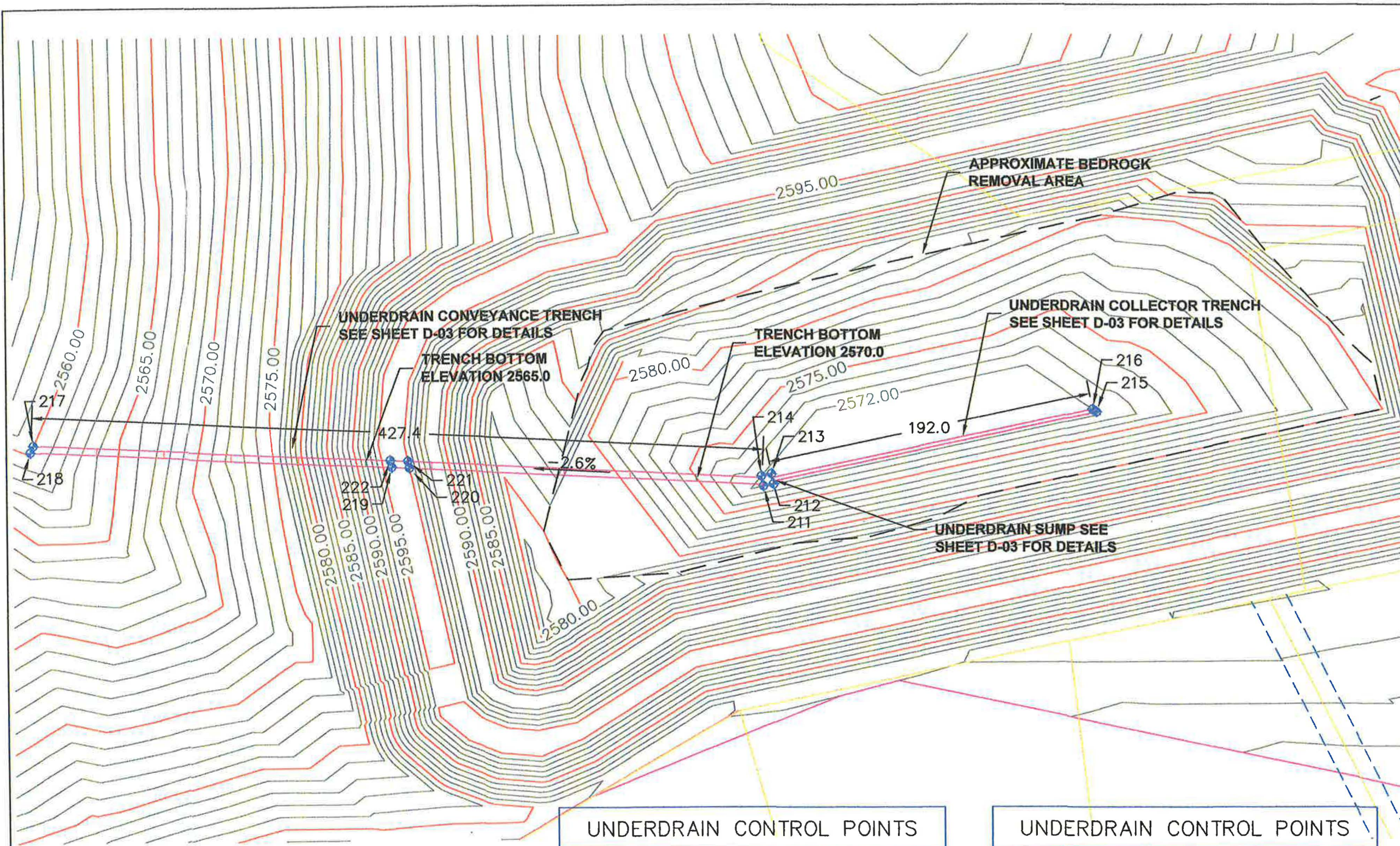
C-05

UNDER DRAINAGE TRENCH APPROXIMATE REMOVAL DEPTH		
CONTROL POINT #	DEPTH IN FEET	FINAL ELEVATION
211	-11.7	2570
212	-11.7	2570
213	-11.8	2570
214	-11.7	2570
215	-6.4	2571
216	-6	2571

NOTES:

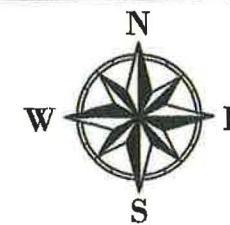
1. APPROXIMATELY 9,404 CY OF ROCK TO BE REMOVED.
2. ROCK REMOVED TO BE USED FOR SPILL WAY CONSTRUCTION AND ARMORING/DECORATIVE EFFECTS AROUND POND.

APPROXIMATE REMOVAL DEPTH		
CONTROL POINT #	DEPTH IN FEET	FINAL ELEVATION
157	-5	2580
158	0	2580
159	-3	2580
160	-0.5	2580
161	0	2580
162	0	2580
163	-5	2580
164	-5	2580
165	0	2580
166	-5.5	2580
167	-9	2572
168	-10	2572
169	-8	2572
170	-4.5	2572



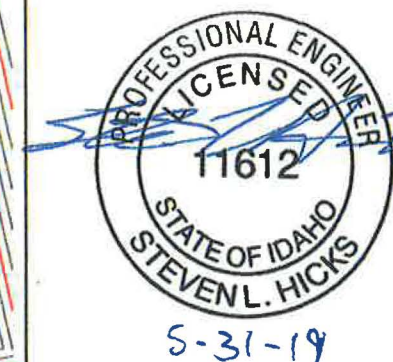
UNDERDRAIN CONTROL POINTS			
Point #	Elevation	Northing	Easting
211	2570.00	2134376.9664	2343678.1555
212	2570.00	2134378.2139	2343684.0244
213	2570.00	2134384.0828	2343682.7769
214	2570.00	2134382.8353	2343676.9080
215	2571.00	2134420.1696	2343873.4721
216	2571.00	2134421.7155	2343871.1253

UNDERDRAIN CONTROL POINTS			
Point #	Elevation	Northing	Easting
217	2560.00	2134403.6493	2343251.9358
218	2560.00	2134399.7390	2343250.0833
219	2565.88	2134389.0559	2343459.8115
220	2566.17	2134388.5282	2343470.1721
221	2565.64	2134392.5092	2343469.2876
222	2565.38	2134393.0403	2343458.9251



GRAPHIC SCALE
0 30 60 Feet

ENGINEERS STAMP



REVISIONS

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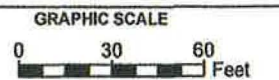
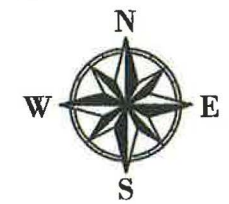
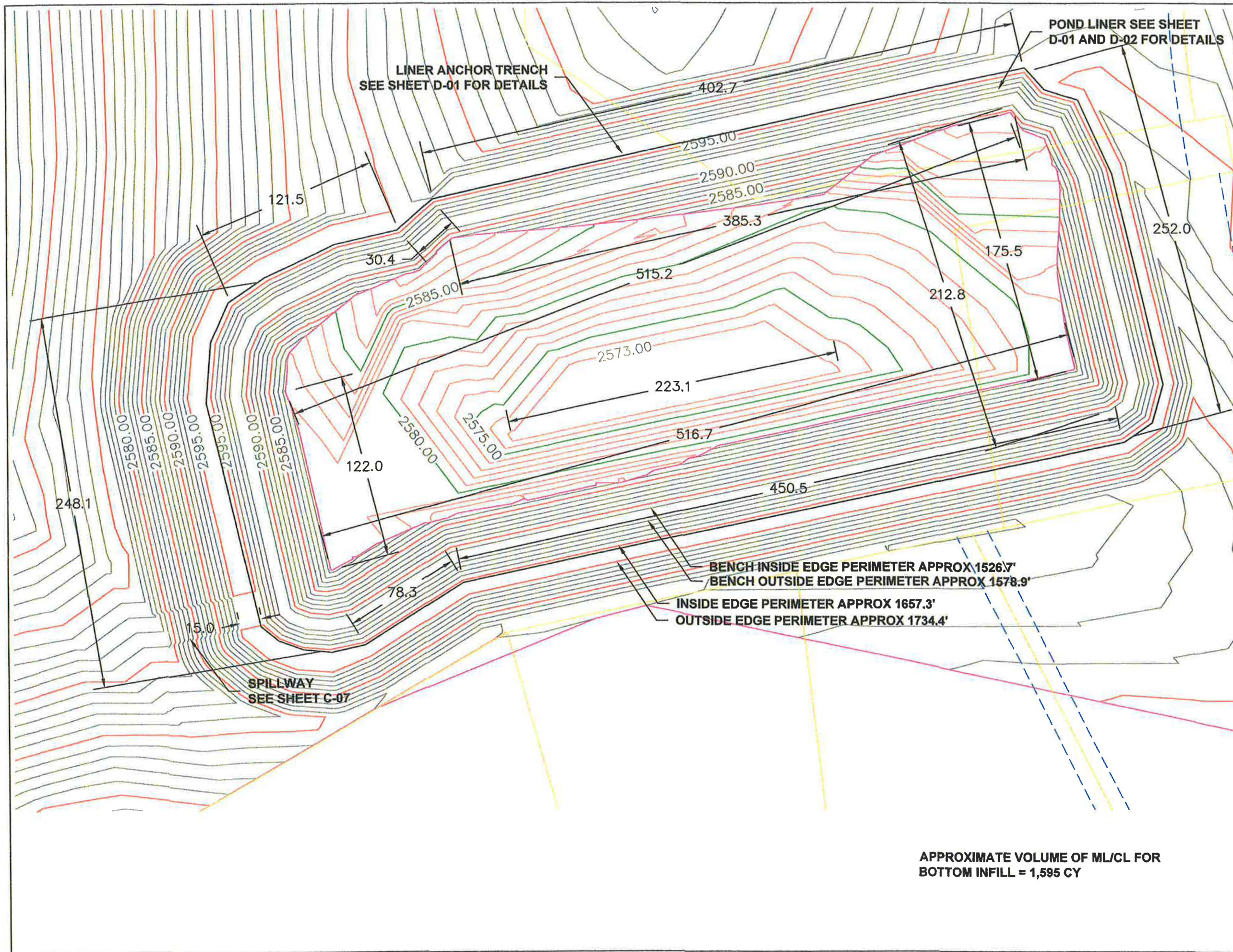
DRAWN BY: TGL DATE: 05/22/19

APPROVED BY: SH CONTRACT BLACKROCK

DATE: 05/22/2019 SCALE: 1"=60'

DRAWING NAME: UNDERDRAIN TRENCH EXCAVATION PLAN
SHEET NO.:

C-06



ENGINEERS STAMP



REVISIONS

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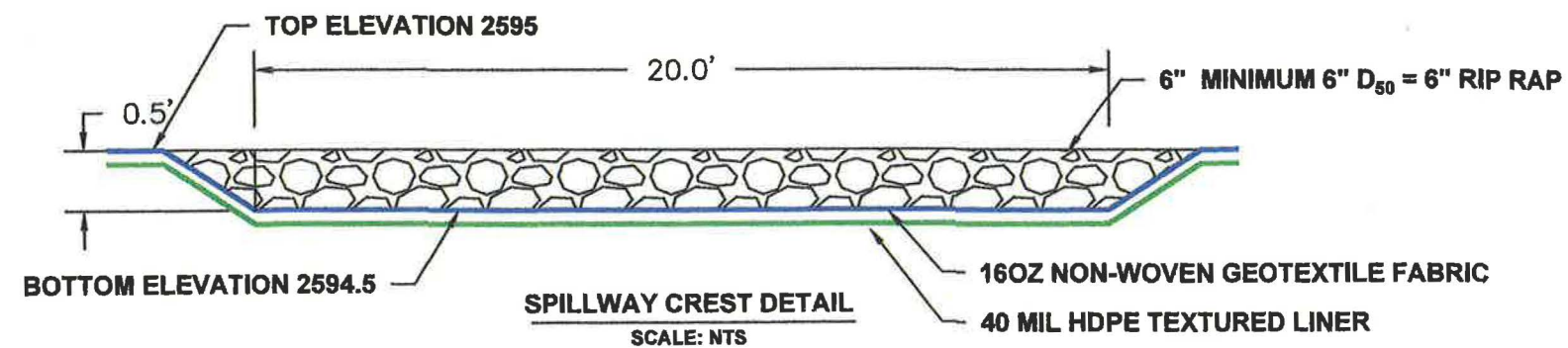
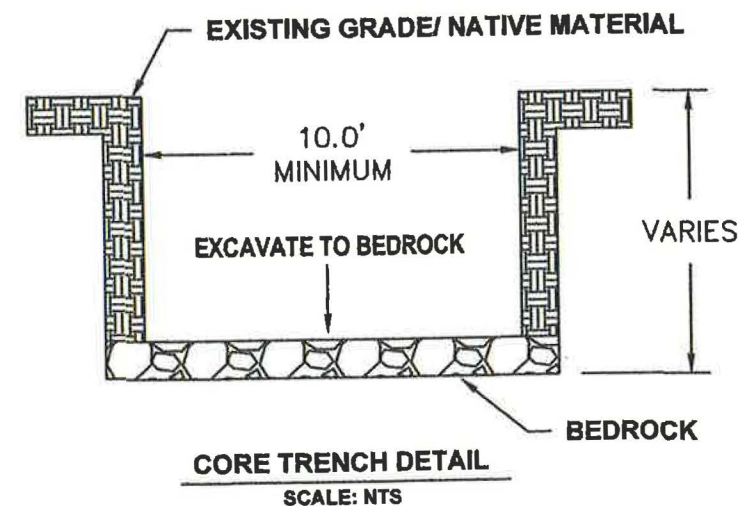
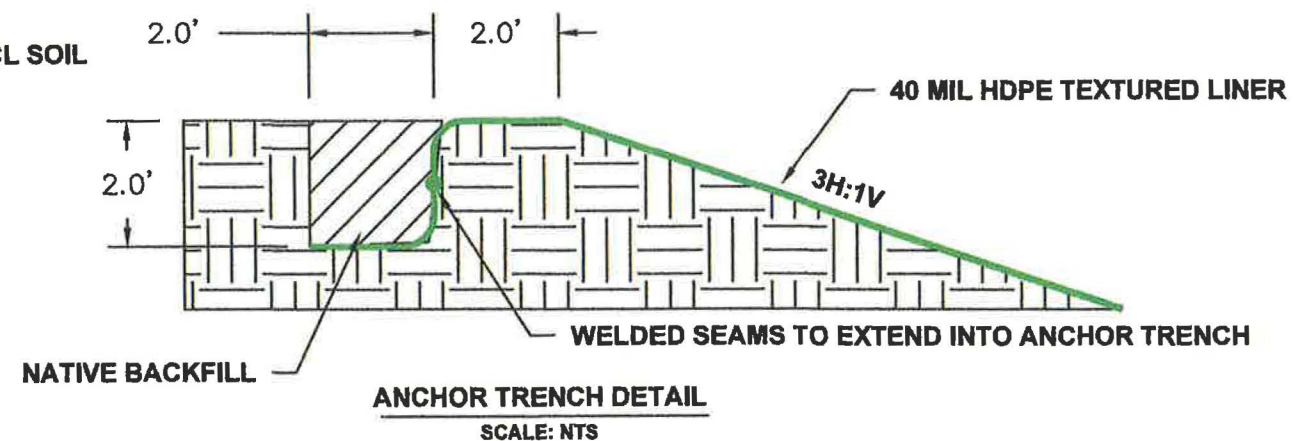
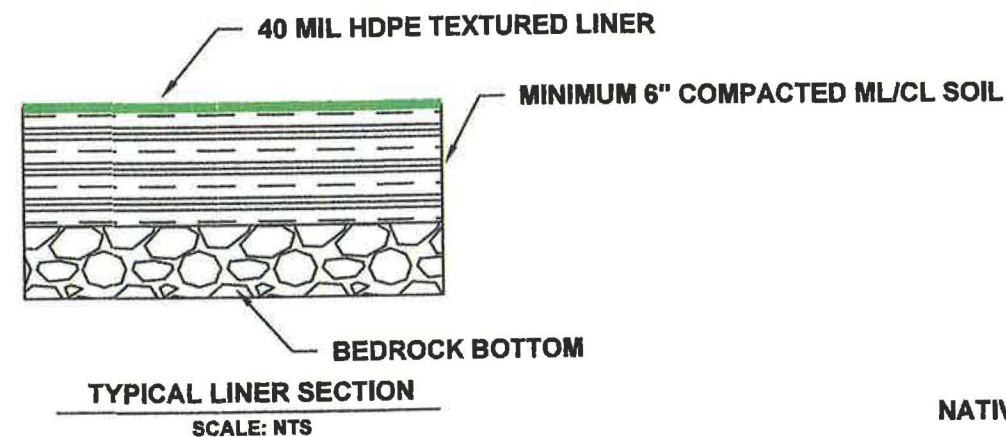
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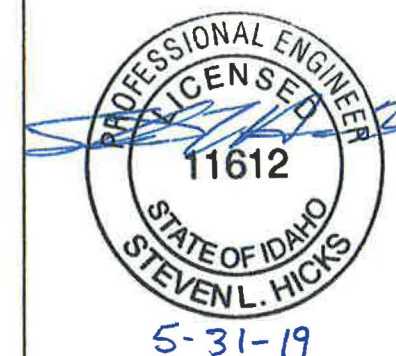
DRAWN BY: TGL	DATE: 05/22/19
APPROVED BY: SH	CONTRACT BLACKROCK
DATE: 05/22/2019	SCALE: 1"=80'

DRAWING NAME:
LINER SUBGRADE GRADING PLAN
SHEET NO.:
C-08



GRAPHIC SCALE

ENGINEERS STAMP



REVISIONS

#	DESCRIPTION	DATE



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DRAWN BY:
TGL

DATE:
05/22/19

APPROVED BY:
SH

CONTRACT
BLACKROCK

DATE:
05/22/2019

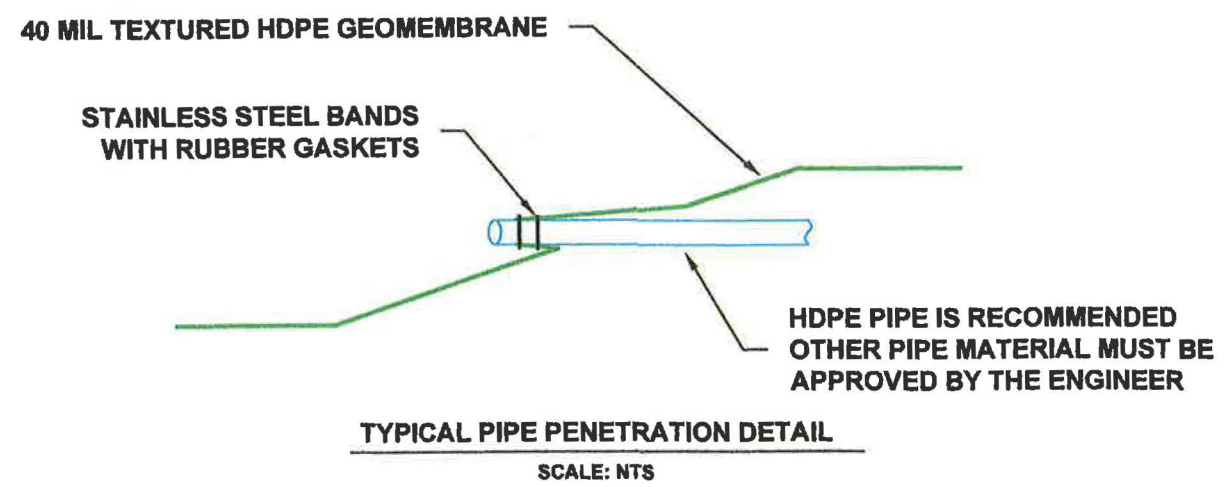
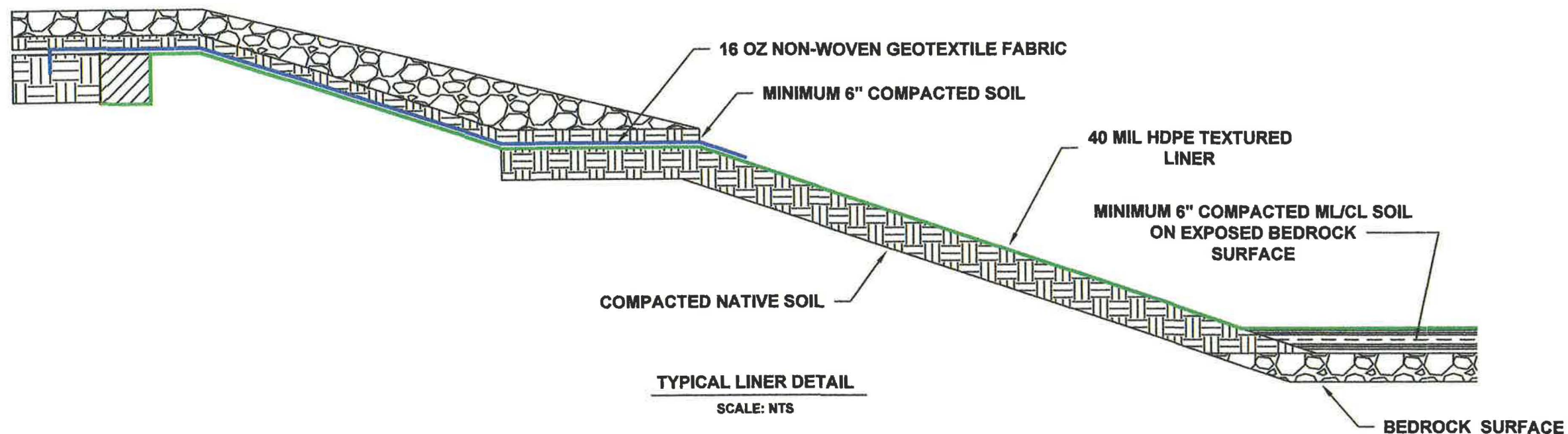
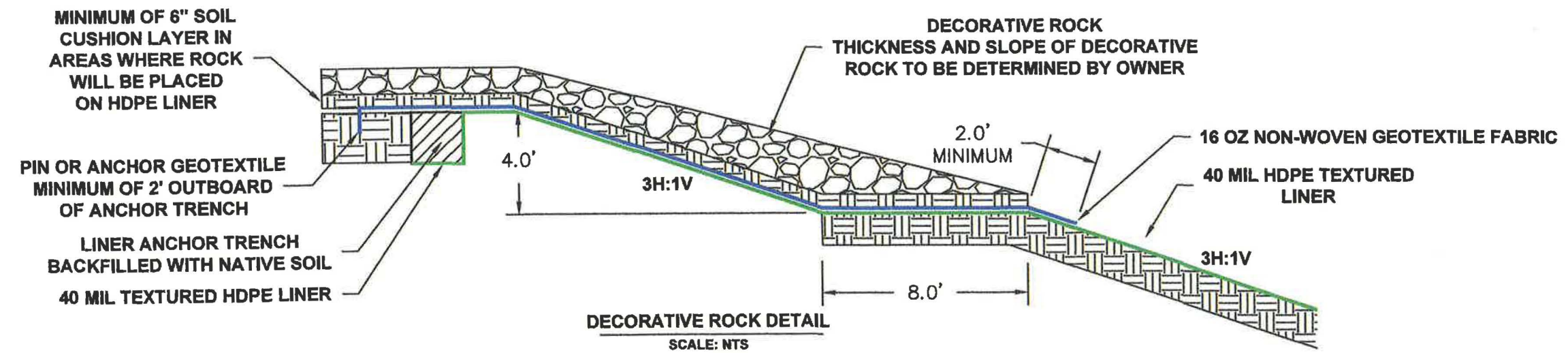
SCALE:
NTS

DRAWING NAME:

DETAILS

SHEET NO.:

D-01



GRAPHIC SCALE

ENGINEERS STAMP



REVISIONS

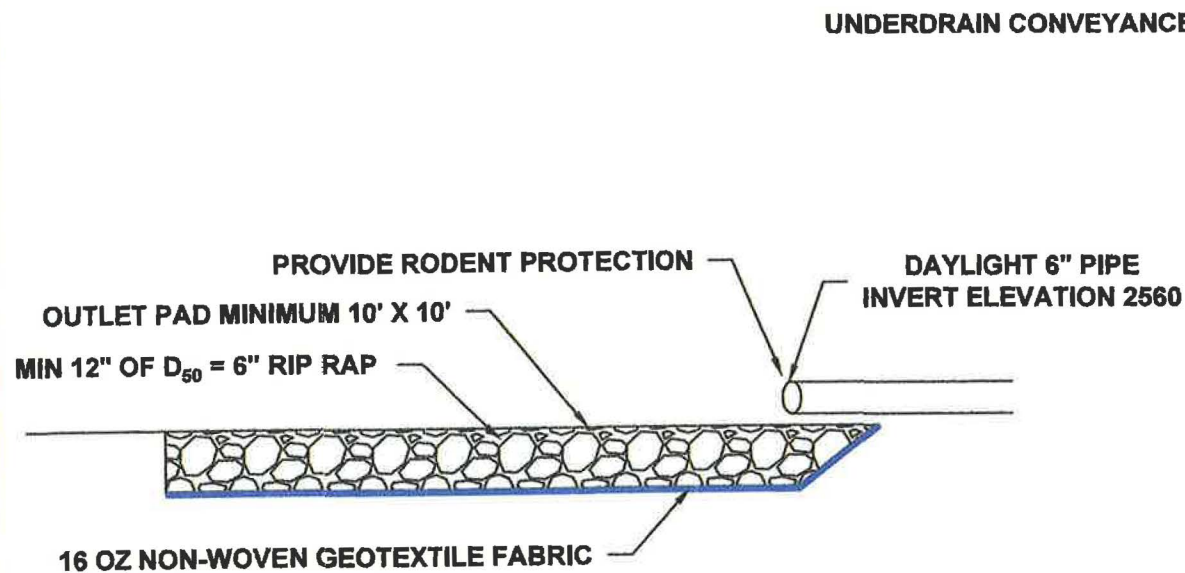
#	DESCRIPTION	DATE

INLAND EARTH SCIENCES
CONSULTANTS IN THE EARTH AND ENVIRONMENTAL SCIENCES
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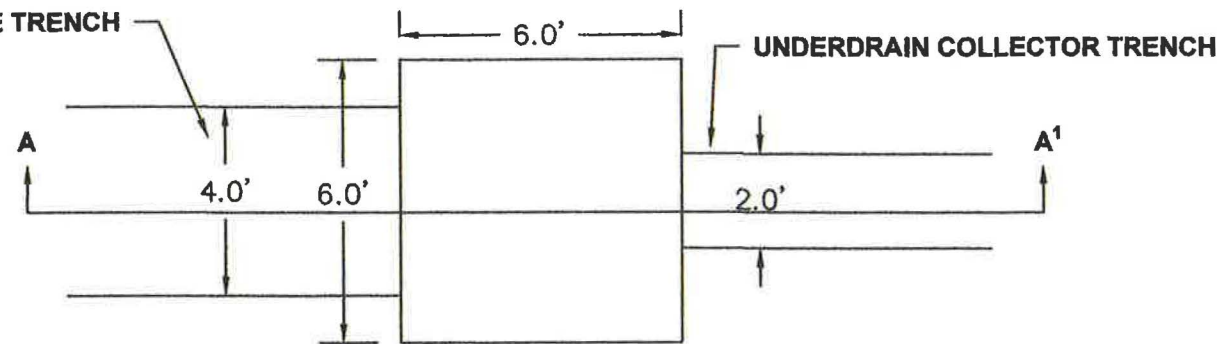
PROJECT:
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DRAWN BY: TGL	DATE: 05/22/19
APPROVED BY: SH	CONTRACT BLACKROCK
DATE: 05/22/2019	SCALE: NTS

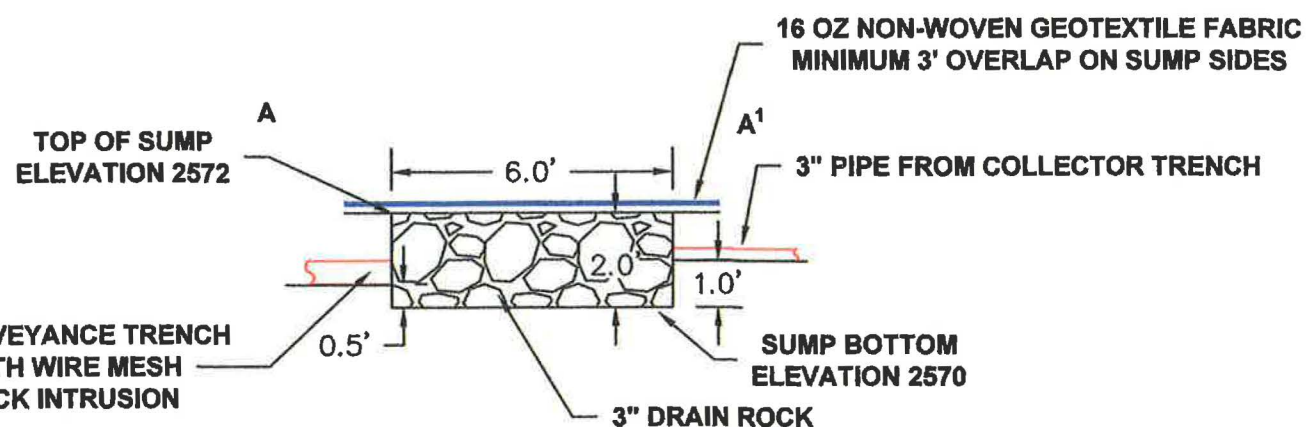
DRAWING NAME:
ADDITIONAL DETAILS
SHEET NO.:
D-02



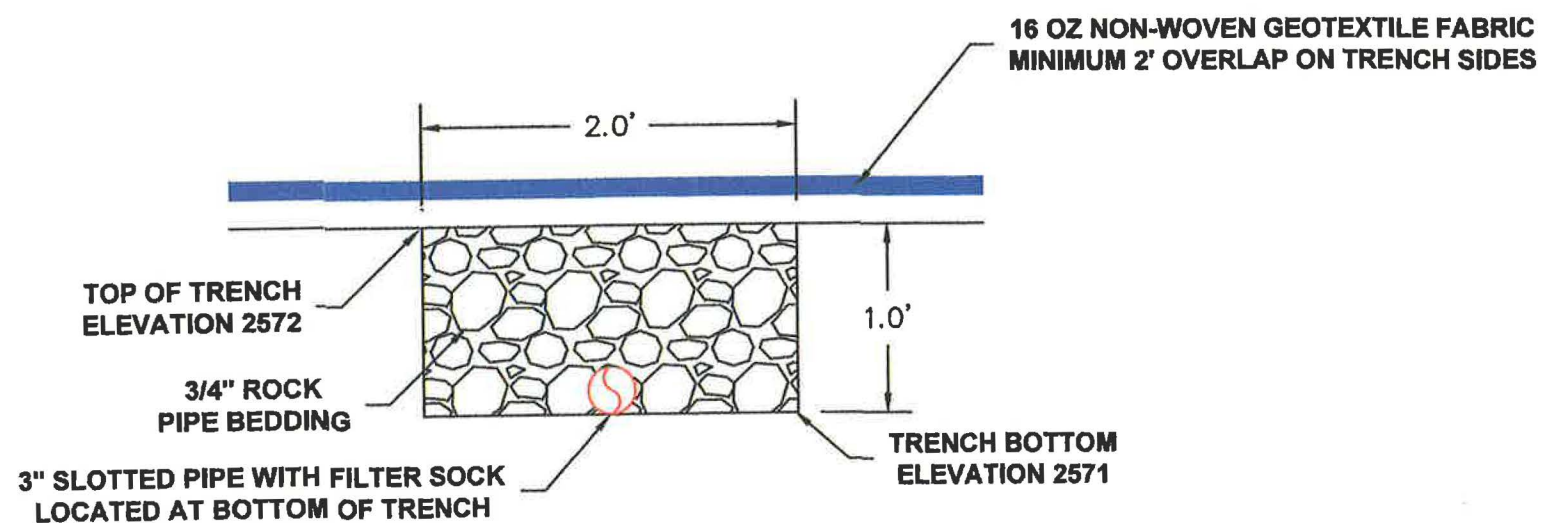
UNDERDRAIN OUTLET DETAILS
SCALE: NTS



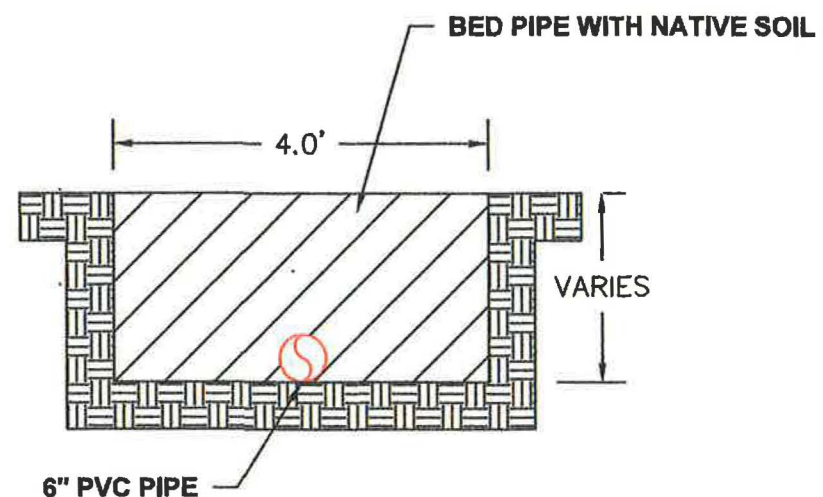
UNDERDRAIN SUMP PLAN VIEW
SCALE: NTS



UNDERDRAIN SUMP SECTION A - A'
SCALE: NTS



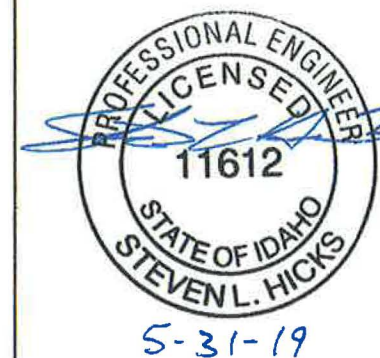
UNDERDRAIN COLLECTOR TRENCH
SCALE: NTS



UNDERDRAIN CONVEYANCE TRENCH
SCALE: NTS

GRAPHIC SCALE

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APPROVED BY: SH CONTRACT: BLACKROCK

DATE: 05/22/2019 SCALE: NTS

DRAWING NAME:

UNDERDRAIN DETAILS

SHEET NO.:

D-03