

RAVENSDALE RECLAMATION TRENCH FILLING AND RESTORATION PROJECT
 PORTIONS OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST,
 SECTION 36, TOWNSHIP 22 NORTH, RANGE 6 EAST, AND SECTION 31, TOWNSHIP 22 NORTH, RANGE 7 EAST, W.M.
 KING COUNTY, WASHINGTON
 COVER SHEET

LEGAL DESCRIPTION:

THE EAST 1/2 OF SEC. 1, TWP 21 N, RGE 6 E, W.M.

VERTICAL DATUM:

NAVD 88

KING COUNTY POINT NUMBER 6201 NORTHEAST SECTION CORNER OF SECTION 36, TOWNSHIP 22N, RANGE 6 E, ELEVATION BEING 623.74

BASIS OF BEARING:

BEARING IS BASED OFF RECORD OF SURVEY AFN NO. 9303159008

SITE DATA:

LOCATED IN THE 26900 BLOCK OF SE RAVENSDALE WAY, RAVENSDALE WA., KING COUNTY.

N.P.D.E.S. NOTE:

NO CONSTRUCTION OR SITE DISTURBANCE FOR THIS PROJECT MAY BEGIN BEFORE THE APPLICANT FIRST OBTAINS A GENERAL PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY PERMIT FROM THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (DOE).

PLAN NOTES:

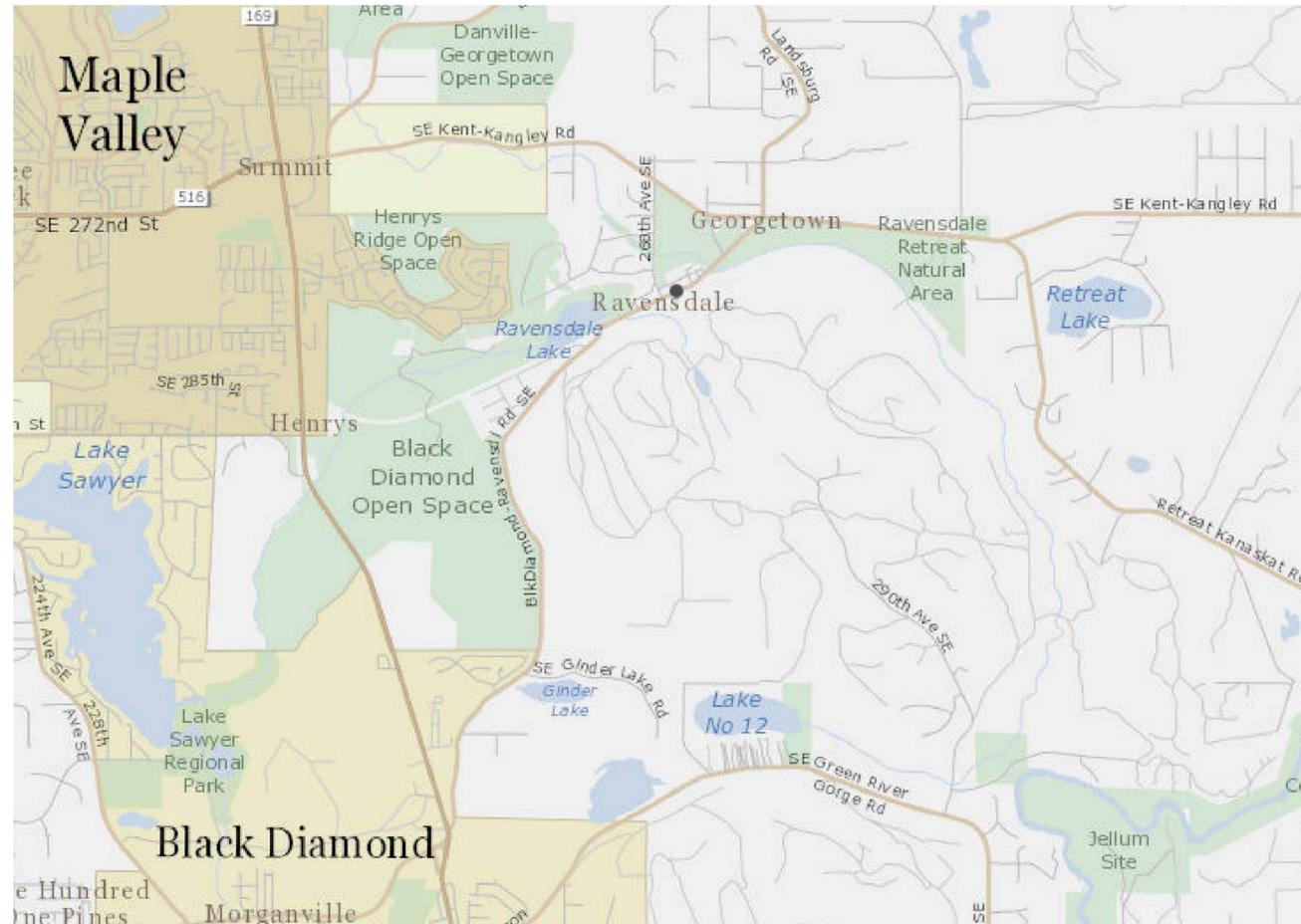
- FILLING SHALL OCCUR ON ONE TRENCH AT A TIME TO MINIMIZE POTENTIAL EROSION ISSUES.
- EXISTING PROPERTY LINES AND EASEMENTS WERE OBTAINED FROM KING COUNTY ASSESSOR'S MAPS.

NOTES:

SOILS MAP PER "RAVENSDALE MINE TRENCH" BY GENESIS RESOURCE CONSULTING DATED NOV. 28 2007.

PARCEL NUMBER:

- 3122079040
- 3122079080
- 3122079035
- 3622069009
- 3622069064
- 0121069001
- 0121069007



VICINITY MAP

SCALE: 1" = 2000'

SHEET INDEX:

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SHEET 22	TRENCH - I GRADING AND T.E.S.C. PLAN / GRADING PROFILE SECTIONS
SHEET 23	TRENCH - J GRADING AND T.E.S.C. PLAN / GRADING PROFILE SECTIONS
SHEET 24	TRENCH - J GRADING PROFILE SECTIONS

TRENCH NOTES:

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR IS ALONE RESPONSIBLE FOR WORKER SAFETY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

UTILITY NOTES:

EXISTING UTILITY INFORMATION DEPICTED ON THESE PLANS WAS OBTAINED FROM BEST AVAILABLE SOURCES AT THE TIME OF DESIGN. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE RELOCATION OF EXISTING UNDERGROUND CONFLICTING UTILITIES DEPICTED OR NOT DEPICTED ON THESE PLANS.

FILL SPECIFICATION:

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD. ONLY EARTH MATERIAL SHALL BE PLACED IN FILLS.

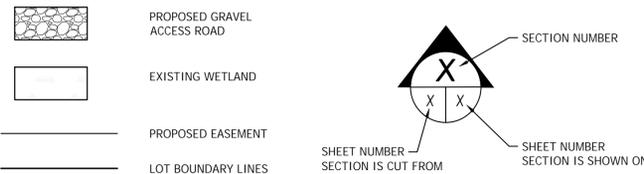
ONE CALL AT 1-800-424-5555

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE, AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURE. TO DETERMINE ACTUAL LOCATIONS, SIZE, AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 1-800-424-5555, AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

(Note to Engineer: This approval signature block not required for cover page.)

KING COUNTY DDES APPROVAL	
Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

LEGEND:



Vicinity Map

Scale 1" =

Soils Map

Scale 1" =

Site Plan Approval

Approval of these plans is for construction of road and drainage improvements, site drainage & grading and temporary erosion control in unincorporated King County only. These plans do not authorize any other utility approval or improvements proposed in any State right of way.

Site plan approval is void if the commercial building permit has not been obtained or renewed within two years of approval.

Subdivision plan approval is void if the final plat is not recorded prior to the preliminary plat approval expiration.

PRO RATA SHARE ASSESSMENT ANALYSIS
(County Use Only)

Section	Township	Range	Tax Parcel	Number

Site Location is within the _____ drainage shed(s)
 Pro Rata Share Assessment(s) are: Required Not Required
 from the site due to development for increased storm water runoff.
 Peak Runoff Assessment Rate(\$) per c.f.s. increases.(10 year, 2 hour storm)
 Peak Volume Assessment Rate(\$) per Ac. Ft. increases.(2 year, 2 hour storm)

AGREEMENTS, PLAN REFERENCES, PERMITS ETC.
(To be completed by Consultant)

Preliminary Plat Approval/Permit Issued Date: _____
 Expiration Date: _____
 Other Related Permit Numbers Received:
 Right-of-Way Use Permit _____
 Grading _____
 Building/Structural _____
 Other _____
 Board feet of tree removal on site: _____
 Cubic yards of material hauled on/off the site: _____
 Is this a highly sensitive area site? (Yes/No): _____
 Note: If "yes", per SWDM Appendix D44 a Highly Sensitive Site Erosion Control Supervisor is required. See ESC plan.

**Emergency
911
Police-Fire-Rescue**

RECOMMENDED FOR APPROVAL
(To be completed by King County)

Date _____
 Review Engineer _____
 Senior Engineer _____
 Traffic & Planning Engineer _____
 Sensitive Areas _____
 Structural Review Engineer _____
 Other _____



APPROVED FOR CONSTRUCTION
 DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES

Date _____ Molly A. Johnson, P.E.
 Development Engineer

PROJECT CONTACT INFORMATION
(To be completed by Consultant)

Applicant Contract Owner Name _____ Phone _____
 Address and Zip Code _____
 Ownership Owner Trustee Name _____ Phone _____
 41306 90TH AVENUE E, EATONVILLE, WA 98328
 Address and Zip Code _____
 A Partnership
 A Partnership
 An Individual
 Certified Surveyor or Engineer Name _____ Phone _____
 Address and Zip Code _____
 3309 56TH STREET NW, SUITE 106, GIG HARBOR, WA 98335

Notice Required

Contractors shall notify operators who maintain underground utility lines in the area of proposed excavation or blasting at least two business days, but not more than ten working days prior to commencement of excavation or demolition in accordance with RCW Title 19. Names and telephone numbers of the operators of underground utility lines in this project appear below. These numbers shall also be used to serve in an emergency conditions as required.

Utility	Phone
Sanitary Sewer	_____
Water District	_____
Gas Company	_____
Power Company	_____
Call Before You Dig	DIAL-A-DIG 1-800-424-5555

Notes

- The Developer is required to notify the Land Use Services Division, Land Use Inspection Section (206) 296-6842, three days prior to the beginning of construction for a preconstruction conference and specifically request inspection before beginning:
 A. Installing siltation and erosion control measures
 B. Clearing and grubbing
 C. Earthwork
 D. Installation of any underground utility
 E. Before placing subbase, base or paving surfaces
 F. Installation of any forms or placing any concrete
- A permit must be obtained from the office of the Resident Engineer, Washington State Department of Transportation, before any construction is started on any existing state route.
- A Hydraulic Project Approval (HPA) Permit must be obtained from the Washington State Department of Fisheries prior to any work when required.

Bonding Information

Restoration Bond Amount \$ _____
 Performance Bond Amount \$ _____

CONTOUR ENGINEERING • L.L.C.
 CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 - Fax: 253-509-0044 - info@contourpllc.com

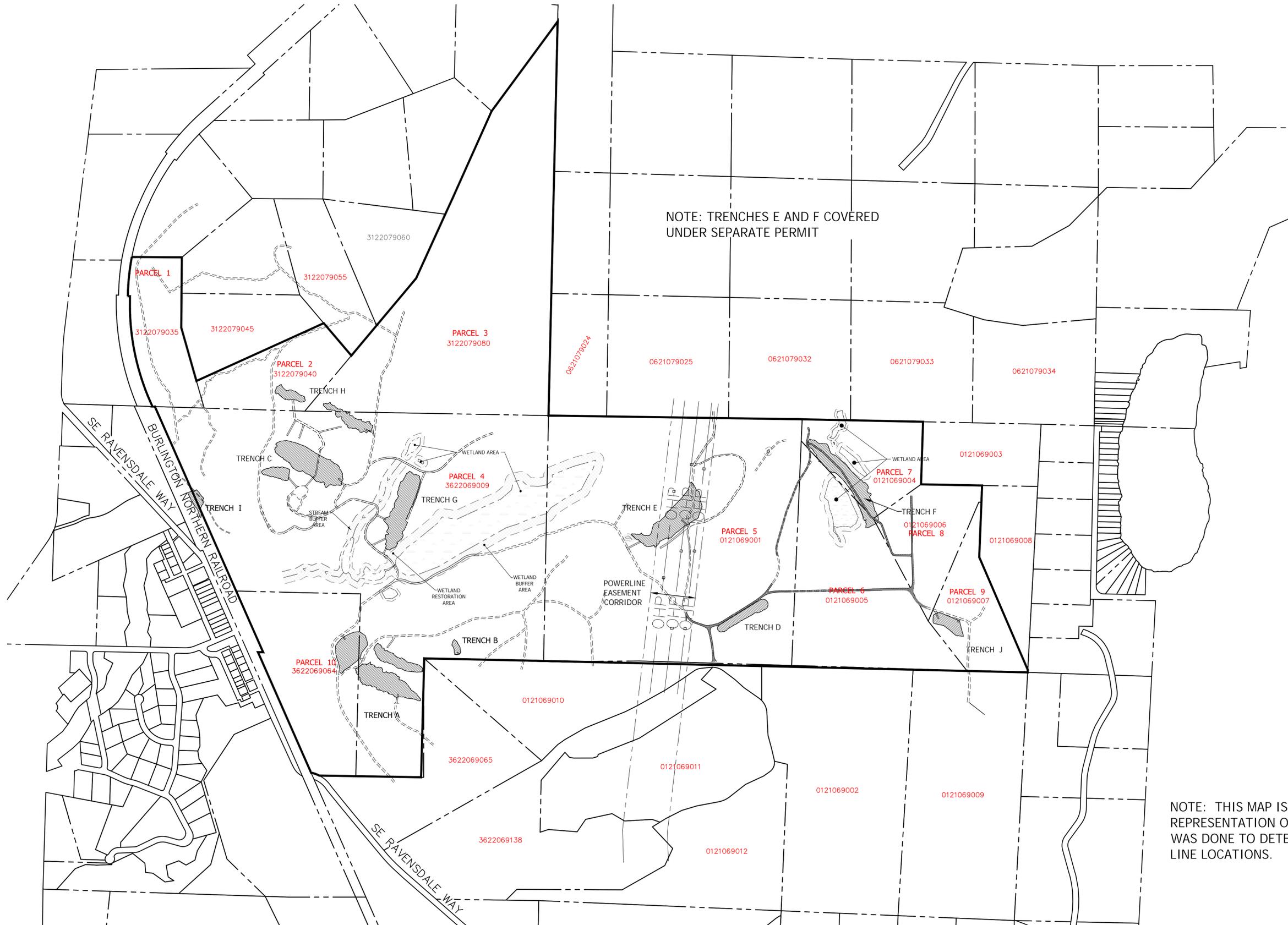
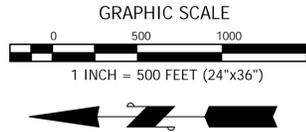
**RAVENSDALE TRENCH FILLING
COVER SHEET**

DDES FILE NUMBERS:
 Activity Number: _____
 Project Number: _____
 Development No: _____



RAVENSDALE RECLAMATION TRENCH FILLING AND RESTORATION PROJECT

PORTIONS OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST,
SECTION 36, TOWNSHIP 22 NORTH, RANGE 6 EAST, AND SECTION 31, TOWNSHIP 22 NORTH, RANGE 7 EAST, W.M.
KING COUNTY, WASHINGTON
TRENCH AND PARCEL LOCATIONS MAP



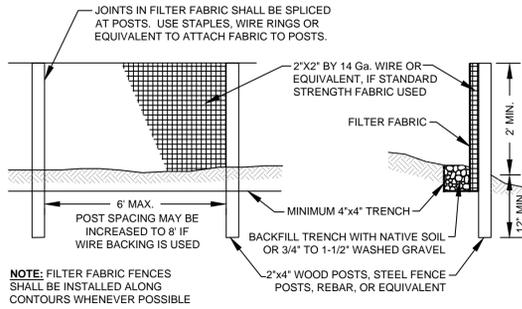
NOTE: TRENCHES E AND F COVERED
UNDER SEPARATE PERMIT

NOTE: THIS MAP IS A GRAPHICAL
REPRESENTATION ONLY, NO SURVEYING
WAS DONE TO DETERMINE PROPERTY
LINE LOCATIONS.

BY	JJ
DATE	2019-02-07
REVISION	1
DESCRIPTION	REVISE LOCATION OF TRENCH I
<p>CONTOUR ENGINEERING • LLC CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335 Phone: 253-857-5454 - Fax: 253-509-0044 - info@contourpllc.com</p>	
<p>BRETT M. ALLEN REGISTERED PROFESSIONAL ENGINEER</p>	
<p>SHEET TITLE: TRENCH AND PARCEL LOCATION MAP RAVENSDALE RECLAMATION TRENCH FILLING AND RESTORATION CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328 CONTACT: KURT ERICKSON PHONE: (253) 606-6060</p>	
<p>DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 NR 6E WM DATE: 2020.06.17 REVISED:</p>	
<p>PROJECT: 09-040 DWG NAME: 09-040 SEC</p>	
SHEET	REV.
C2	1
2 OF 24	

RAVENSDALE RECLAMATION TRENCH FILLING AND RESTORATION PROJECT

PORTIONS OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST, SECTION 36, TOWNSHIP 22 NORTH, RANGE 6 EAST, AND SECTION 31, TOWNSHIP 22 NORTH, RANGE 7 EAST, W.M. KING COUNTY, WASHINGTON



MAINTENANCE STANDARDS

- Any damage shall be repaired immediately.
- If concentrated flows are evident uphill of the fence, they must be intercepted and conveyed to a sediment trap or pond.
- It is important to check the uphill side of the fence for signs of the fence clogging and acting as a barrier to flow and then causing channelization of flows parallel to the fence. If this occurs, replace the fence or remove the trapped sediment.
- Sediment must be removed when the sediment is 6 inches high.
- If the filter fabric (geotextile) has deteriorated due to ultraviolet breakdown, it shall be replaced.

FILTER FABRIC FENCE NOTES:

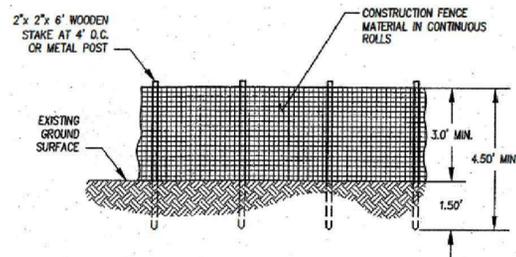
- SEE FIGURE C.3.6.A AND FIGURE C.3.6.B FOR DETAILS.
- THE GEOTEXTILE USED MUST MEET THE STANDARDS LISTED BELOW. A COPY OF THE MANUFACTURER'S FABRIC SPECIFICATIONS MUST BE AVAILABLE ONSITE.

AOS (ASTM D4751)	30-100 sieve size (0.60-0.15 mm) for slit film 50-100 sieve size (0.30-0.15 mm) for other fabrics
Water Permittivity (ASTM D4491)	0.02 sec ⁻¹ minimum
Grab Tensile Strength (ASTM D4632)	180 lbs. min. for extra strength fabric 100 lbs. min. for standard strength fabric
Grab Tensile Elongation (ASTM D4632)	30% max.
Ultraviolet Resistance (ASTM D4355)	70% min.

- STANDARD STRENGTH FABRIC REQUIRES WIRE BACKING TO INCREASE THE STRENGTH OF THE FENCE. WIRE BACKING OR CLOSER POST SPACING MAY BE REQUIRED FOR EXTRA STRENGTH FABRIC IF FIELD PERFORMANCE WARRANTS A STRONGER FENCE.
- WHERE THE FENCE IS INSTALLED, THE SLOPE SHALL BE NO STEEPER THAN 2H:1V.
- IF A TYPICAL SILT FENCE (PER FIGURE C.3.6.A) IS USED, THE STANDARD 4' X 4' TRENCH MAY NOT BE REDUCED AS LONG AS THE BOTTOM 8 INCHES OF THE SILT FENCE IS WELL BURIED AND SECURED IN A TRENCH THAT STABILIZES THE FENCE AND DOES NOT ALLOW WATER TO BYPASS OR UNDERMINE THE SILT FENCE.
- SILT FENCES SHALL BE LOCATED SO AS TO AVOID INTERFERING WITH THE MOVEMENT OF JUVENILE SALMONIDS ATTEMPTING TO ENTER OFF-CHANNEL AREAS OR DRAINAGES.

FILTER FABRIC FENCE DETAIL

NOT TO SCALE



MAINTENANCE STANDARDS:

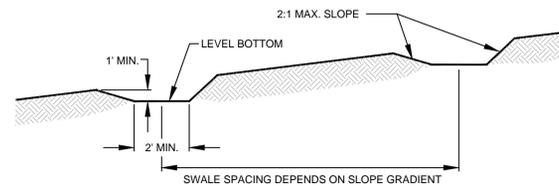
- IF THE FENCE HAS BEEN DAMAGED OR VISIBLY REDUCED, IT SHALL BE REPAIRED OR REPLACED IMMEDIATELY AND VISIBILITY RESTORED.
- DISTURBANCE OF A CRITICAL AREA, CRITICAL BUFFER, NATIVE GROWTH RETENTION AREA, OR ANY OTHER AREA REQUIRED TO BE LEFT UNDISTURBED SHALL BE REPORTED TO THE COUNTY FOR RESOLUTION.

PROTECTION FENCE NOTES:

- THE FENCE SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- THE FENCE SHALL BE AT LEAST 3 FEET HIGH AND MUST BE HIGHLY VISIBLE.
- THE FENCE SHALL NOT BE WIRED OR STAPLED TO TREES.
- THE FENCE SHALL BE REMOVED UPON THE COMPLETION OF THE WORK AND THE SITE IS STABILIZED.

PROTECTION FENCE DETAIL

NOT TO SCALE



DESIGN AND INSTALLATION SPECIFICATIONS

- SEE FIGURE D.2.1.6.B FOR DETAILS OF AN INTERCEPTOR DIKE AND FIGURE D.2.1.6.C FOR AN INTERCEPTOR SWALE.
- INTERCEPTOR DIKES AND SWALES SHALL BE SPACED HORIZONTALLY AS FOLLOWS:

AVERAGE SLOPE	SLOPE PERCENT	FLOWPATH LENGTH
20H:1V OR LESS	3-5%	300 FEET
(10 TO 20)H:1V	5-10%	200 FEET
(4 TO 10)H:1V	10-25%	100 FEET
(2 TO 4)H:1V	25-50%	50 FEET

- FOR SLOPES STEEPER THAN 2H:1V WITH MORE THAN 10 FEET OF VERTICAL RELIEF, BENCHES MAY BE CONSTRUCTED OR CLOSER SPACED INTERCEPTOR DIKES OR SWALES MAY BE USED, WHICHEVER MEASURE IS CHOSEN, THE SPACING AND CAPACITY OF THE MEASURES MUST BE DESIGNED BY THE ENGINEER AND THE DESIGN MUST INCLUDE PROVISIONS FOR EFFECTIVELY INTERCEPTING THE HIGH VELOCITY RUNOFF ASSOCIATED WITH STEEP SLOPES.
- IF THE DIKE OR SWALE INTERCEPTS RUNOFF FROM DISTURBED AREAS, IT SHALL DISCHARGE TO A STABLE CONVEYANCE SYSTEM THAT ROUTES THE RUNOFF TO A SEDIMENT POND OR TRAP (SEE SECTION D.2.1.5). IF THE DIKE OR SWALE INTERCEPTS RUNOFF THAT ORIGINATES FROM UNDISTURBED AREAS, IT SHALL DISCHARGE TO A STABLE CONVEYANCE SYSTEM THAT ROUTES THE RUNOFF DOWNSLOPE OF ANY DISTURBED AREAS AND RELEASES THE WATER AT A STABILIZED OUTLET.
- CONSTRUCTION TRAFFIC OVER TEMPORARY DIKES AND SWALES SHALL BE MINIMIZED.

MAINTENANCE STANDARDS

- DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY.
- IF THE FACILITIES DO NOT REGULARLY RETAIN STORM RUNOFF, THE CAPACITY AND/OR FREQUENCY OF THE DIKES/SWALES SHALL BE INCREASED.

INTERCEPTOR SWALES NOTES:

- SEED AND MULCH SHALL BE APPLIED WITHIN 5 DAYS OF CONSTRUCTION (SEE VEGETATION).
- NO EROSION SHALL OCCUR AT THE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.
- SEDIMENT LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY SUCH AS A POND, TRAP, OR SILT FENCE AS APPROPRIATE TO DRAINAGE AREA SIZE.

INTERCEPTOR DITCH DETAIL

NOT TO SCALE

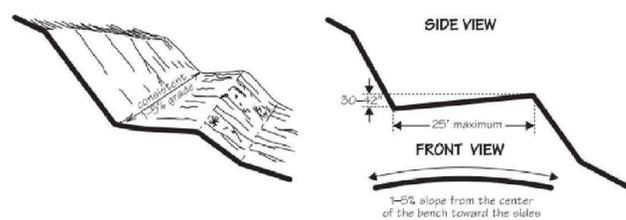
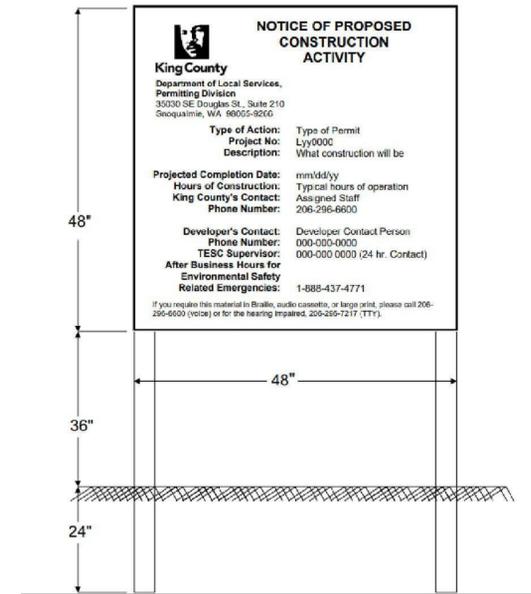


Figure 2.4. Benching and terracing of unconsolidated material to control runoff. Benches cut in overburden or other material likely to erode should be sloped into the hillside (side view) and away from the center of the bench (1-5% slope or grade) to allow drainage to either side (front view). (Modified from Law, 1984. Copyright © 1984 by Van Nostrand Reinhold Company Inc. Used by permission of the publisher.)

BENCHING AND TERRACING DETAIL

NOT TO SCALE



NOTICE BOARD CONSTRUCTION SPECIFICATIONS

THE NOTICE BOARD SHALL BE CONSTRUCTED WITH 4' X 4' X 1/2" PLYWOOD, EXTERIOR GRADE, GOOD SURFACE ONE SIDE, PROFESSIONALLY PREPARED PLASTIC BOARD OVERLAYS, PERMANENTLY AFFIXED TO THE BOARD AND PERMISSIBLE. THE NOTICE BOARD SHALL DISPLAY THE INFORMATION AS SHOWN IN THE FIGURE ON PAGE TWO AND AS SPECIFIED AT THE PRE-CONSTRUCTION MEETING. NOTICE BOARDS MAY BE REUSED, BUT THEY MUST BE CLEAN AND SHOW NO EVIDENCE OF FORMER WORDING.

- LETTERING STYLE: HELVETICA OR SIMILAR TYPEFACE
- LETTERING SIZE: TITLE SHOULD BE 3" CAPITAL LETTERS (NOTICE OF PROPOSED CONSTRUCTION ACTIVITY); OTHER LETTERS SHOULD BE 2" LETTERS AND THE 'EMERGENCY' TEXT AND PHONE MAY BE 1-1/2" LETTERS. SEE ILLUSTRATION ON PAGE TWO FOR USE OF CAPITAL AND LOWERCASE LETTERS. THE SIZE OF THE COUNTY LOGO WITH THE DEPARTMENT OF PERMITTING AND ENVIRONMENTAL REVIEWS (PERMITTING) ADDRESS (LETTERING HEIGHT 1") SHALL FIT THE AVAILABLE SPACE AS SHOWN. BORDER AREA AND LINES OF TEXT SHALL BE EVENLY SPACED TO APPROXIMATE THE SAMPLE SHOWN.
- LETTERING COLOR: BLACK (PERMANENT INK OR SILK-SCREEN)
- BACKGROUND COLOR: WHITE
- LOGO: KING COUNTY EMBLEM, IN BLACK

THE APPLICANT/DEVELOPER SHALL ERECT THE NOTICE BOARD BY SOLIDLY SETTING TWO 4' X 4' POSTS TO 12 TO 24 INCHES INTO THE GROUND, OR STRUCTURALLY ATTACHING IT TO AN EXISTING BUILDING. POST LENGTH SHALL BE AT LEAST 7 FEET ABOVE THE GROUND. TWO 2' X 4' DIAGONAL BRACES SHOULD BE NAILED TO THE INSIDE BACK OF THE POSTS AND STAKED AT THE GROUND TO PROVIDE STABILITY AGAINST WIND OR SOFT SOIL CONDITIONS IF POSTS ARE LESS THAN 24 INCHES INTO THE GROUND. THE NOTICE BOARD SHALL BE ATTACHED TO THE POSTS WITH FOUR LAG BOLTS AND WASHERS (3/8-INCH DIAMETER AND 3' LONG).

NOTICE BOARD LOCATION

- THE NOTICE BOARD SHALL BE LOCATED:
- AT THE MIDPOINT ON THE SITE STREET FRONTAGE OR AS OTHERWISE DIRECTED BY PERMITTING STAFF TO MAXIMIZE VISIBILITY.
 - AT A LOCATION 5 FEET INSIDE THE STREET PROPERTY LINE; A NOTICE BOARD STRUCTURALLY ATTACHED TO AN EXISTING BUILDING SHALL BE EXEMPT FROM THE SETBACK PROVISIONS, PROVIDED THAT THE NOTICE BOARD IS LOCATED NOT MORE THAN 5 FEET FROM THE PROPERTY LINE WITHOUT APPROVAL FROM PERMITTING STAFF.
 - SO THAT THE TOP OF THE NOTICE BOARD IS BETWEEN 7 TO 9 FEET ABOVE GRADE.
 - SO THAT IT IS TOTALLY VISIBLE TO PEDESTRIANS.

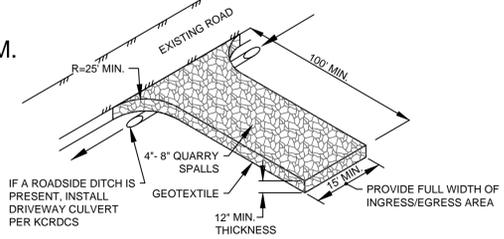
MAINTENANCE AND REMOVAL OF NOTICE BOARD

THE APPLICANT/DEVELOPER SHALL MAINTAIN THE NOTICE BOARD IN GOOD CONDITION THROUGHOUT THE SITE IMPROVEMENT CONSTRUCTION PERIOD, WHICH SHALL EXTEND THROUGH THE TIME OF FINAL CONSTRUCTION APPROVAL BY KING COUNTY PERMITTING OR ITS SUCCESSOR AGENCY OR JURISDICTION.

THE NOTICE BOARD SHALL BE REMOVED WITHIN 14 DAYS AFTER FINAL CONSTRUCTION APPROVAL. EARLY REMOVAL OF THE NOTICE BOARD MAY RESULT IN ENFORCEMENT ACTIONS AUTHORIZED UNDER KCC, TITLE 23 AND MAY DELAY FINAL CONSTRUCTION APPROVAL.

NOTICE OF CONSTRUCTION ACTIVITY SIGN

NOT TO SCALE



- IF A ROADSIDE DITCH IS PRESENT, INSTALL DRIVEWAY CULVERT PER KCRDCS
- PROVIDE FULL WIDTH OF INGRESS/EGRESS AREA
- NOTES:
- PER KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS), DRIVEWAYS SHALL BE PAVED TO EDGE OF ROAD PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY.
 - IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.

DESIGN AND INSTALLATION SPECIFICATIONS

- SEE FIGURE D.2.1.4.A FOR DETAILS.
- A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

GRAB TENSILE STRENGTH (ASTM D4632)	200 LBS MIN.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX (MOVEN)
PUNCTURE STRENGTH (ASTM D6241)	495 LBS MIN
AOS (ASTM D4751)	20-45 (U.S. STANDARD SIEVE SIZE)
- DO NOT USE CRUSHED CONCRETE, CEMENT, OR CALCIUM CHLORIDE FOR CONSTRUCTION ENTRANCE STABILIZATION BECAUSE THESE PRODUCTS RAISE PH LEVELS IN STORMWATER AND CONCRETE DISCHARGE TO SURFACE WATERS OF THE STATE IS PROHIBITED.
- HOG FUEL (WOOD BASED MULCH) MAY BE SUBSTITUTED FOR OR COMBINED WITH QUARRY SPALLS IN AREAS THAT WILL NOT BE USED FOR PERMANENT ROADS. THE EFFECTIVENESS OF HOG FUEL IS HIGHLY VARIABLE, BUT IT HAS BEEN USED SUCCESSFULLY ON MANY SITES. IT GENERALLY REQUIRES MORE MAINTENANCE THAN QUARRY SPALLS. HOG FUEL IS NOT RECOMMENDED FOR ENTRANCE STABILIZATION IN URBAN AREAS. THE INSPECTOR MAY AT ANY TIME REQUIRE THE USE OF QUARRY SPALLS IF THE HOG FUEL IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT OR IF THE HOG FUEL IS BEING CARRIED ONTO PAVEMENT. HOG FUEL IS PROHIBITED IN PERMANENT ROADBEDS BECAUSE ORGANICS IN THE SUBGRADE SOILS CAUSE DIFFICULTIES WITH COMPACTION.
- FENCING (SEE SECTION D.2.1.1) SHALL BE INSTALLED AS NECESSARY TO RESTRICT TRAFFIC TO THE CONSTRUCTION ENTRANCE.
- WHENEVER POSSIBLE, THE ENTRANCE SHALL BE CONSTRUCTED ON A FIRM, COMPACTED SUBGRADE. THIS CAN SUBSTANTIALLY INCREASE THE EFFECTIVENESS OF THE PAD AND REDUCE THE NEED FOR MAINTENANCE.

MAINTENANCE STANDARDS

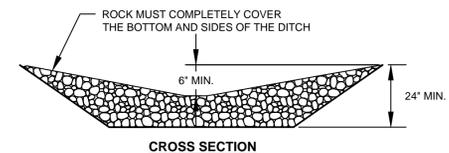
- QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, A SMALL SUMP MUST BE CONSTRUCTED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE CONTROLLED. WASH WATER MUST BE PUMPED BACK INTO THE SITE AND CANNOT DISCHARGE TO SYSTEMS TRIBUTARY TO SURFACE WATERS.
- ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SEE SECTION D.2.1.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

CONSTRUCTION ENTRANCE DETAIL

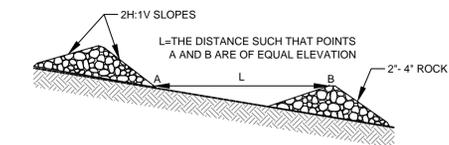
NOT TO SCALE

ACCESS ROAD AND ACCESS POINT NOTES

ACCESS ROADS AND ACCESS POINTS SHALL BE A MINIMUM OF 15' WIDE WITH A MAXIMUM OF A 2% CROSS SLOPE, 15% DOWNWARD/UPWARD SLOPE, AND SHALL BE CONSTRUCTED AND SUBSEQUENTLY RECLAIMED AS TRENCH FILLING DICTATES, ENSURING NO ROAD REMAINS LONGER THAN NECESSARY.



CROSS SECTION



CHECK DAM SPACING

ROCK CHECK DAMS

NOT TO SCALE

BY									
DATE									
DESCRIPTION									
REVISION									

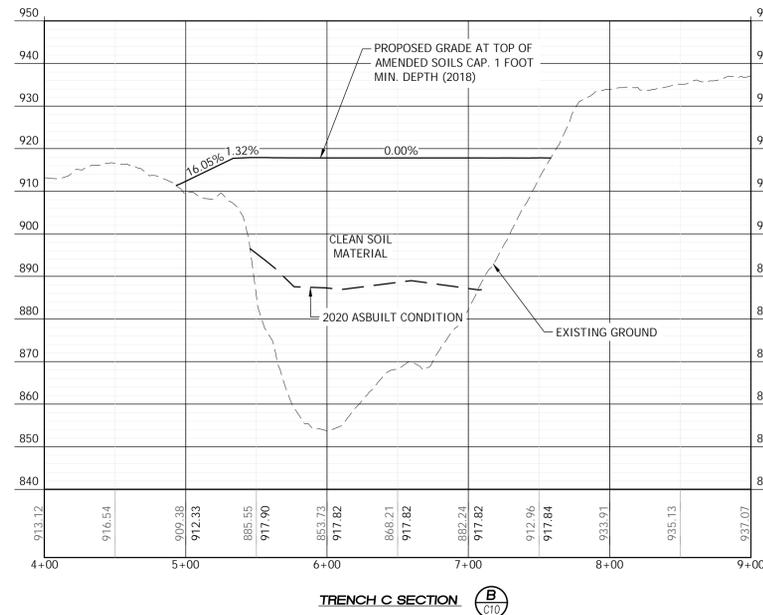
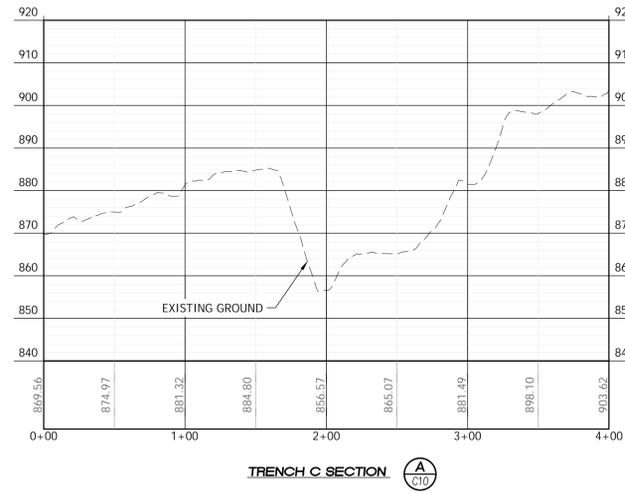
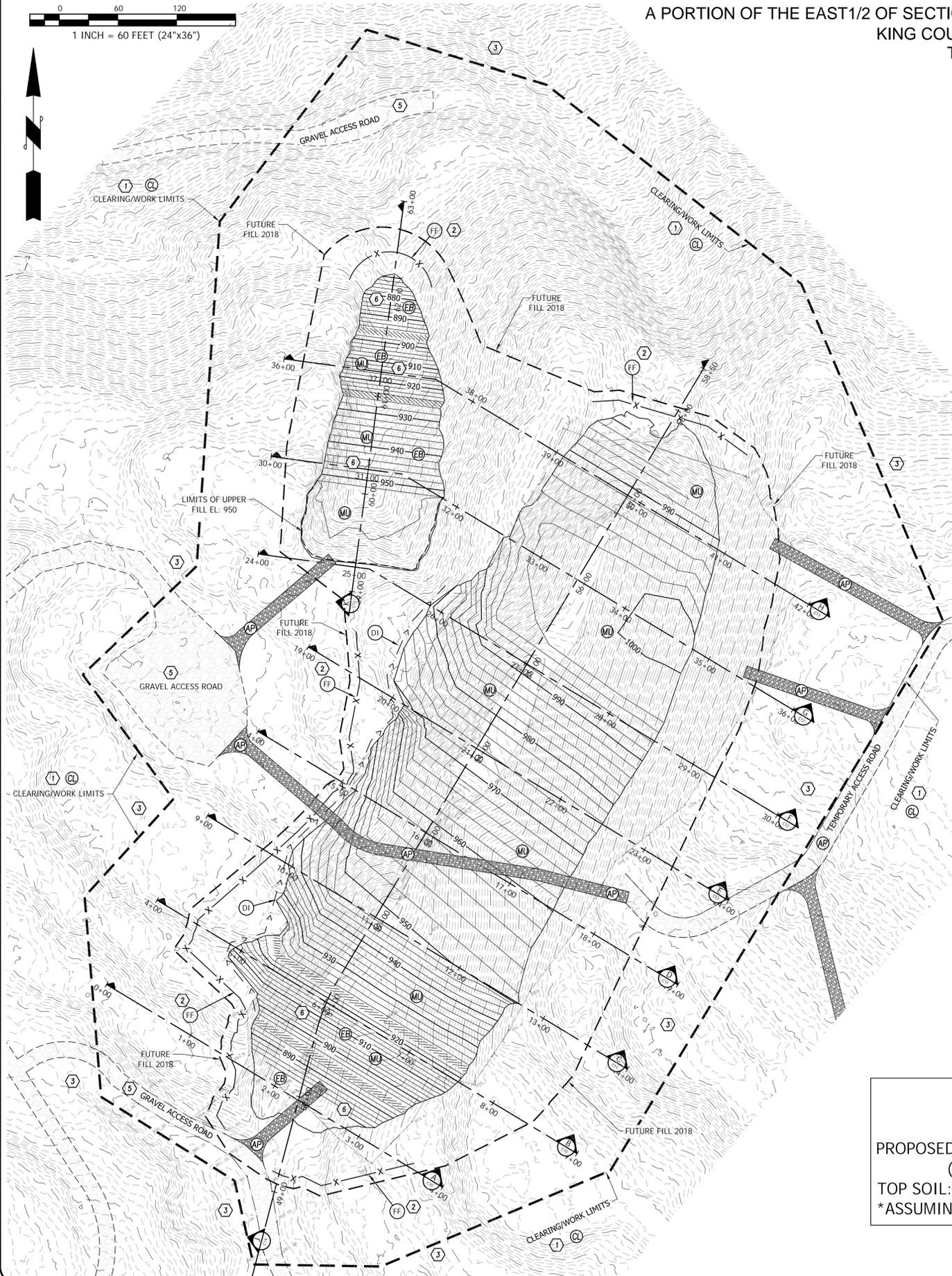
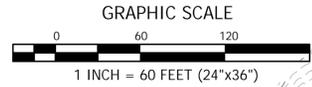
KURT ERICKSON
PROFESSIONAL ENGINEER

CONTOUR ENGINEERING, LLC
CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98328
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpbc.com

<p>SHEET TITLE: T.E.S.C. NOTES & DETAILS</p>	<p>RAVENSDALE TRENCH FILLING</p> <p>CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328</p> <p>CONTACT: KURT ERICKSON PHONE: (253) 606-6060</p>
--	---

DESIGNER: J. JACOBY	ENGINEER: B. ALLEN
DRAWN: J. JACOBY	DATE: 2020.06.17
PROJECT: 09-040	REVISED:
DWG NAME: 09-040-C	SHEET
C4	REV.
4 OF 24	

RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - C



TRENCH C:
 SCALE: 1" = 60' HORIZONTAL
 1" = 20' VERTICAL

PROPOSED IMPORT QUANTITY: 353,397 CY±
 (BANK YARDS)

TOP SOIL: 7,652 CY± *
 *ASSUMING 1' DEPTH

CONSTRUCTION NOTES:

- 1 LIMIT OF WORK, CLEARING/GRADING LIMITS AS SHOWN
- 2 LOCATE FILTER FABRIC FENCE AS CLOSE TO CLEARING LIMITS AS PRACTICAL.
- 3 UNDISTURBED AREAS.
- 4 WETLAND BUFFER DO NOT DISTURB.
- 5 MAINTAIN EXISTING GRAVEL ACCESS ROAD.
- 6 ARMOR PER GEOTECHNICAL ENGINEER REQUIREMENTS.
- 7 FIELD LOCATE ACTUAL WETLAND AND BUFFER PRIOR TO ANY FILLING. ADJUST EDGE OF FILL/TOE SLOPE TO KEEP ALL WORK OUTSIDE OF BUFFER.

PLAN NOTES:

1. SEE PLANTING NOTES SHEET C3.
2. 5' WIDE BENCH VERTICAL SEPARATION PER GEOTECHNICAL ENGINEER REQUIREMENTS.
3. ACTUAL LOCATION OF TOE OF SLOPE VARIES TO ALLOW WORKING AREA/CLEARANCE. TOE OF SLOPE SHALL NOT ENCROACH INTO WETLAND BUFFER.
4. ACCESS ROADS SHOW ARE FOR REFERENCE ONLY. LOCATIONS SUBJECT TO BE MODIFIED AS NEEDED FOR FILLING OPERATIONS.
5. ALL CONSTRUCTION ENTRANCES AND NEW ACCESS POINTS ASSOCIATED WITH THIS PROJECT ARE TO BE RESTORED TO THE ORIGINAL CONDITION AFTER CONSTRUCTION HAS ENDED.

TESC LEGEND:

- AP TEMPORARY ACCESS POINT - AFTER COMPLETION OF PROJECT, ROADBED IS TO BE REMOVED - AREA TO BE HYDROSEEDED & REFORESTED PER FOREST PRACTICE REQUIREMENTS
- FF FILTER FABRIC FENCE SEE NOTES AND DETAIL SHEET C4
- DI ROCK LINED INTERCEPTOR DITCH
- ML HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET C3
- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

QUARRY SPALL NOTE

QUARRY SPALLS UTILIZED FOR "ROCK LINING" FOR INTERCEPTOR DITCHES SHALL MEET THE FOLLOWING GRADATION:

· PASSING 8-INCH SQUARE SIEVE	100%
· PASSING 3-INCH SQUARE SIEVE	40-60% MAX
· PASSING 3/4-INCH SQUARE SIEVE	0-10% MAX

GRADING BENCH NOTE

IF SLOPES ARE GRADED AT 2:1, THEN A 6' GRADING BENCH IS REQUIRED AS SHOWN EVERY 30' OF VERTICAL DROP, AS SHOWN ON PLANS.

IF SLOPES ARE GRADED AT 3:1, THEN NO BENCH IS REQUIRED PENDING GEOTECHNICAL APPROVAL.

VERIFICATION NOTE

ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA SHALL BE IDENTIFIED AND VERIFIED FOR DEPTH AND LOCATION PRIOR TO ANY CONSTRUCTION ACTIVITIES SO TO IDENTIFY ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY EXISTING TOPOGRAPHY IS CONSISTENT WITH WHAT IS SHOWN ON PLANS AND IF THERE ARE ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION ACTIVITIES. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

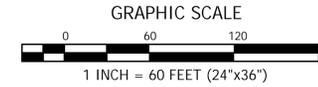
CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

BY	DATE	DESCRIPTION	REVISION

SHEET TITLE: TRENCH - C GRADING AND T.E.S.C. PLAN	RAVENSDALE TRENCH FILLING	CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328	CONTACT: KURT ERICKSON PHONE: (253) 606-6060
PROJECT: 09-040 DWG NAME: 09-040-TRENCH-C		SHEET	REV.
C10		10 OF 24	

CONTOUR ENGINEERING, LLC
 CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
 3309 54th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 - Fax: 253-509-0044 - info@contourplc.com



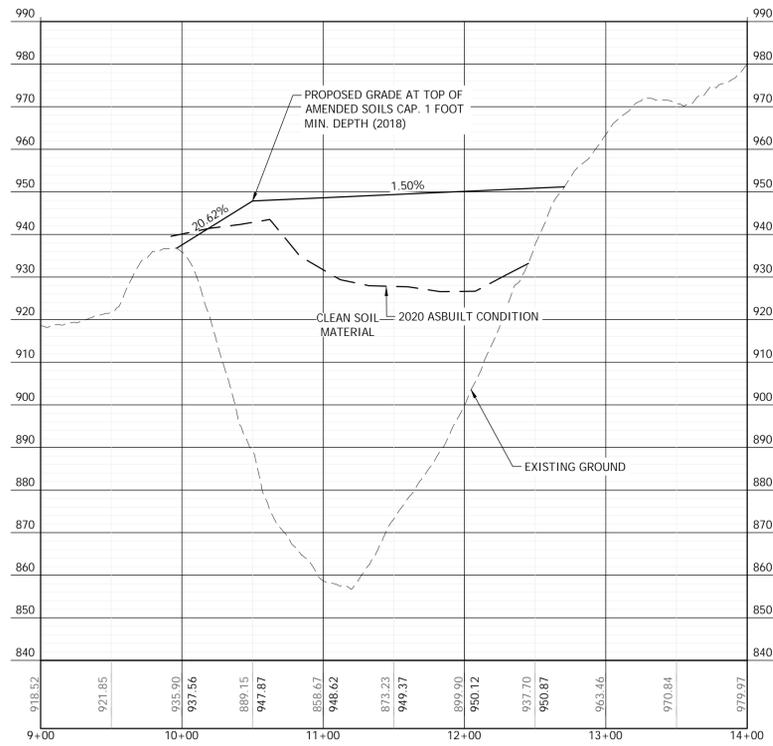


TRENCH C:
 SCALE: 1" = 60' HORIZONTAL
 1" = 20' VERTICAL

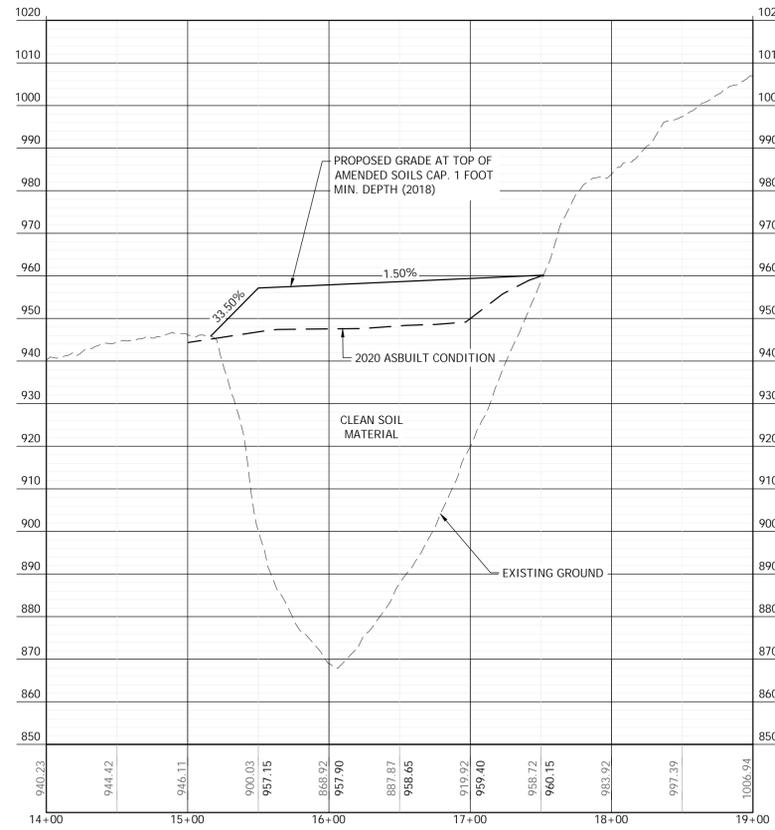
PROPOSED IMPORT QUANTITY: 353,397 CY ±
 (BANK YARDS)

TOP SOIL: 7,652 CY ±*
 *ASSUMING 1' DEPTH

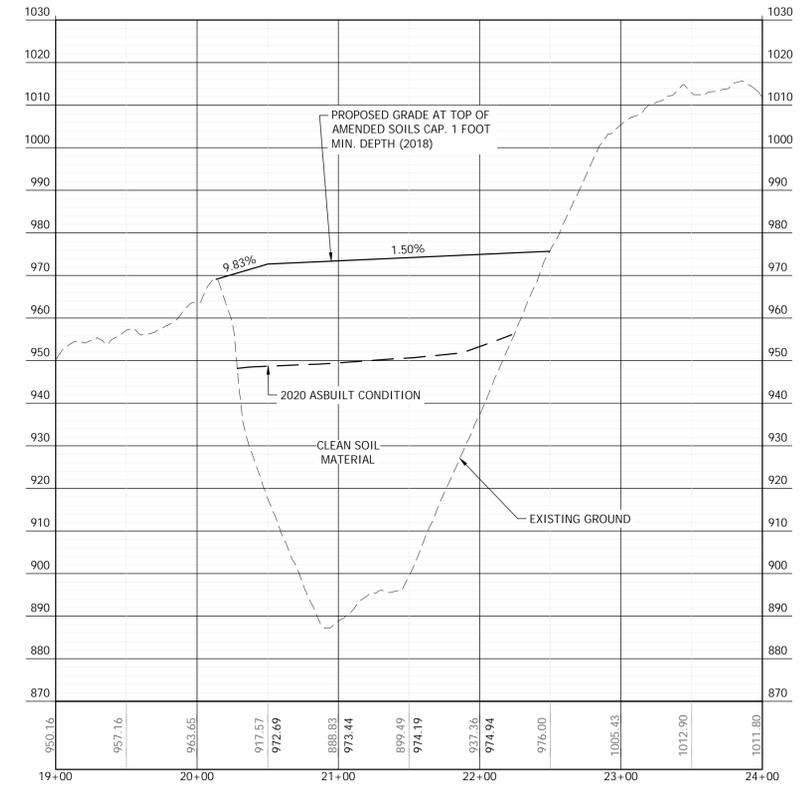
RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - C



TRENCH C SECTION C



TRENCH C SECTION D



TRENCH C SECTION E

REVISION	DESCRIPTION	DATE	BY

CONTOUR
 ENGINEERING • LLC
 CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpllc.com



SHEET TITLE: TRACT - C

RAVENSDALE TRENCH FILLING

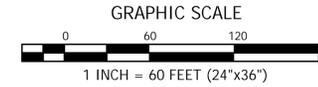
CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328

CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2020.06.17
 REVISED:

PROJECT: 09-040
 DWG NAME: 09-040-TRENCH-C

SHEET	REV.
C11	0
11 OF 24	

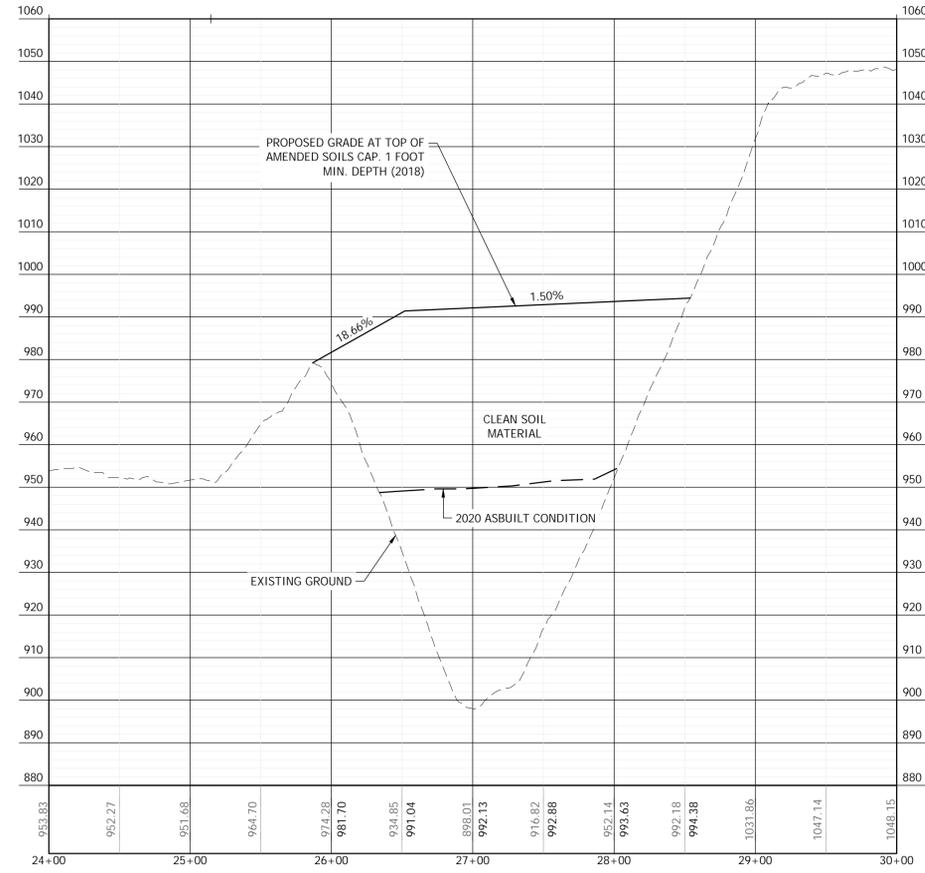


TRENCH C:
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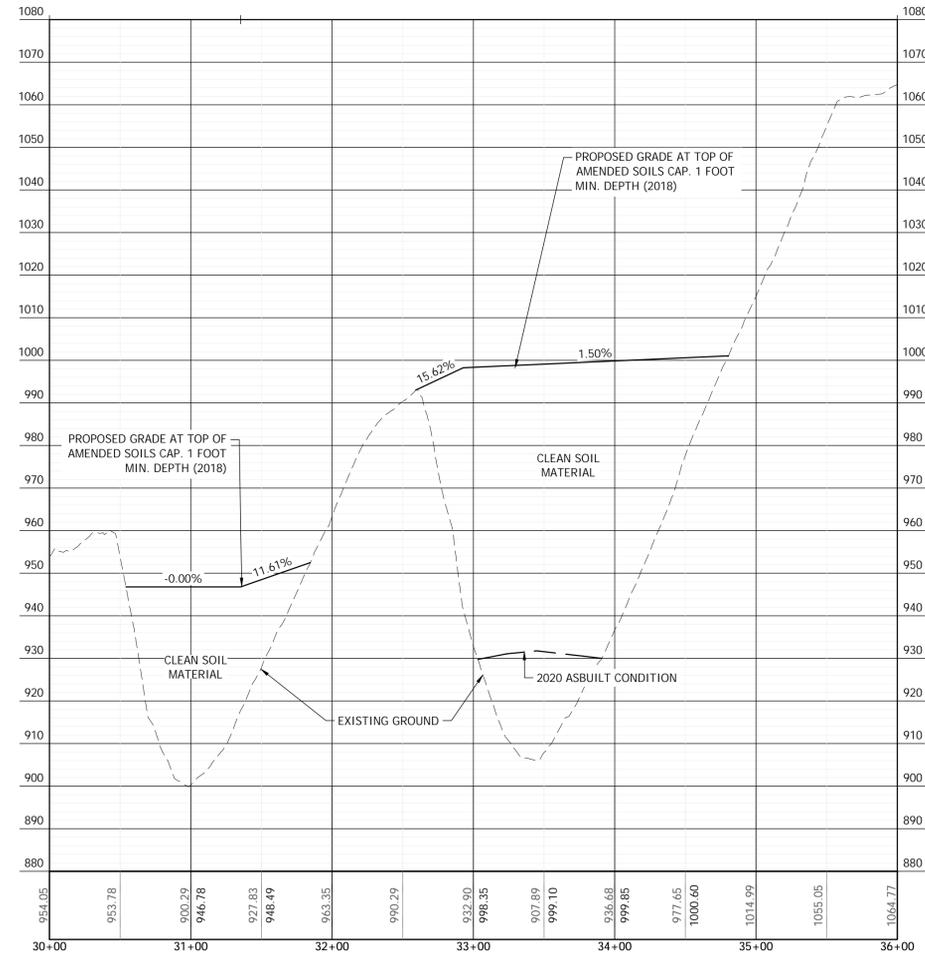
PROPOSED IMPORT QUANTITY: 353,397 CY ±
 (BANK YARDS)

TOP SOIL: 7,652 CY ±*
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RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - C



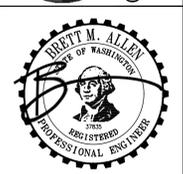
TRENCH C SECTION **F**
 C10



TRENCH C SECTION **G**
 C10

REVISION	DESCRIPTION	DATE	BY

CONTOUR
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SHEET TITLE: TRACT - C

RAVENSDALE TRENCH FILLING

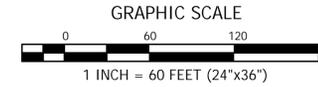
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CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2020.06.17
 REVISED:

PROJECT: 09-040
 DWG NAME: 09-040-TRENCH-C

SHEET	REV.
C12	0
12 OF 24	

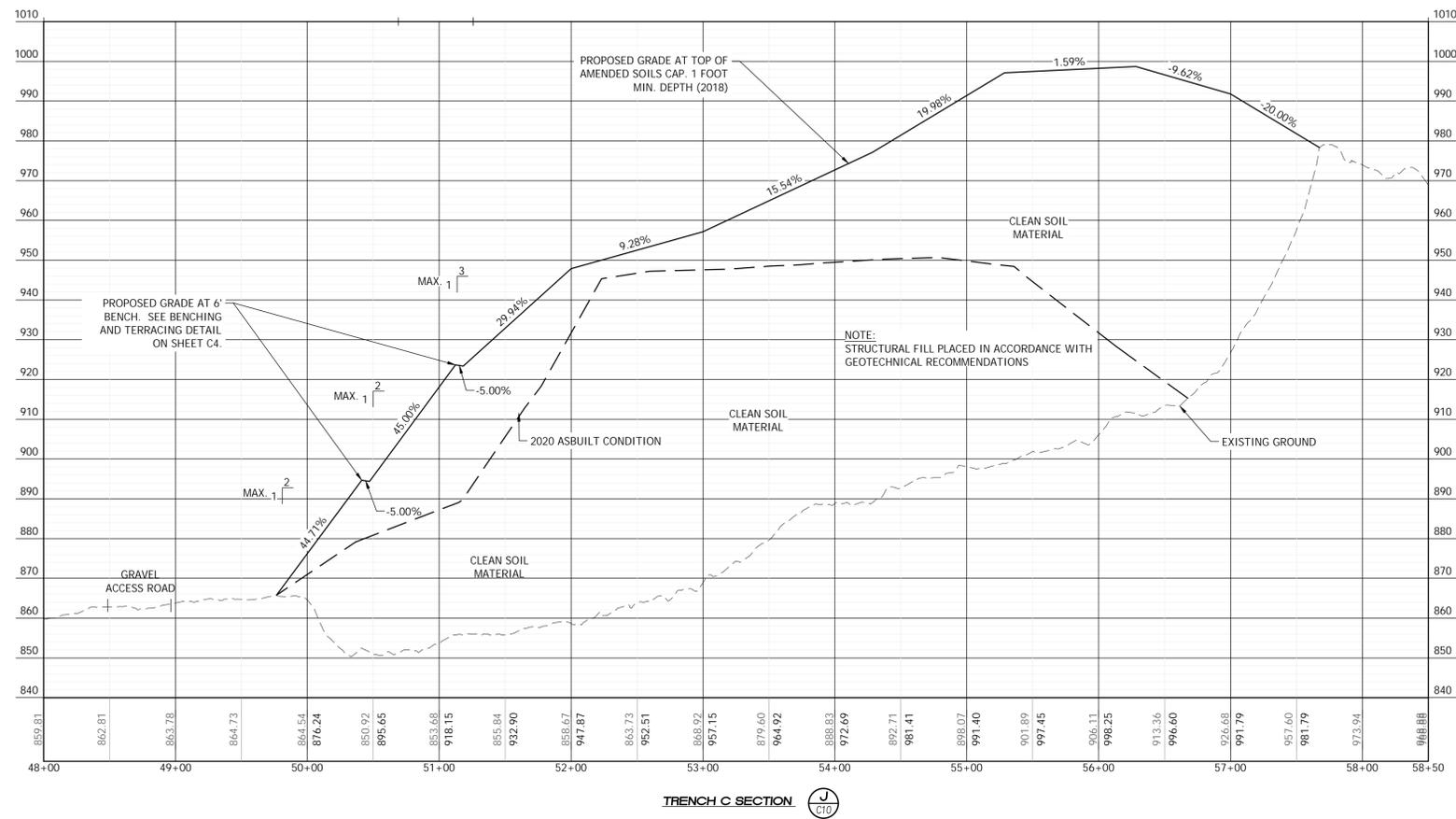


TRENCH C:
 SCALE: 1" = 60' HORIZONTAL
 1" = 20' VERTICAL

PROPOSED IMPORT QUANTITY: 353,397 CY±
 (BANK YARDS)

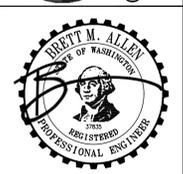
TOP SOIL: 7,652 CY±*
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RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - C



REVISION	DESCRIPTION	DATE	BY

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SHEET TITLE: TRACT - C

RAVENSDALE TRENCH FILLING

CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328

CONTACT: KURT ERICKSON

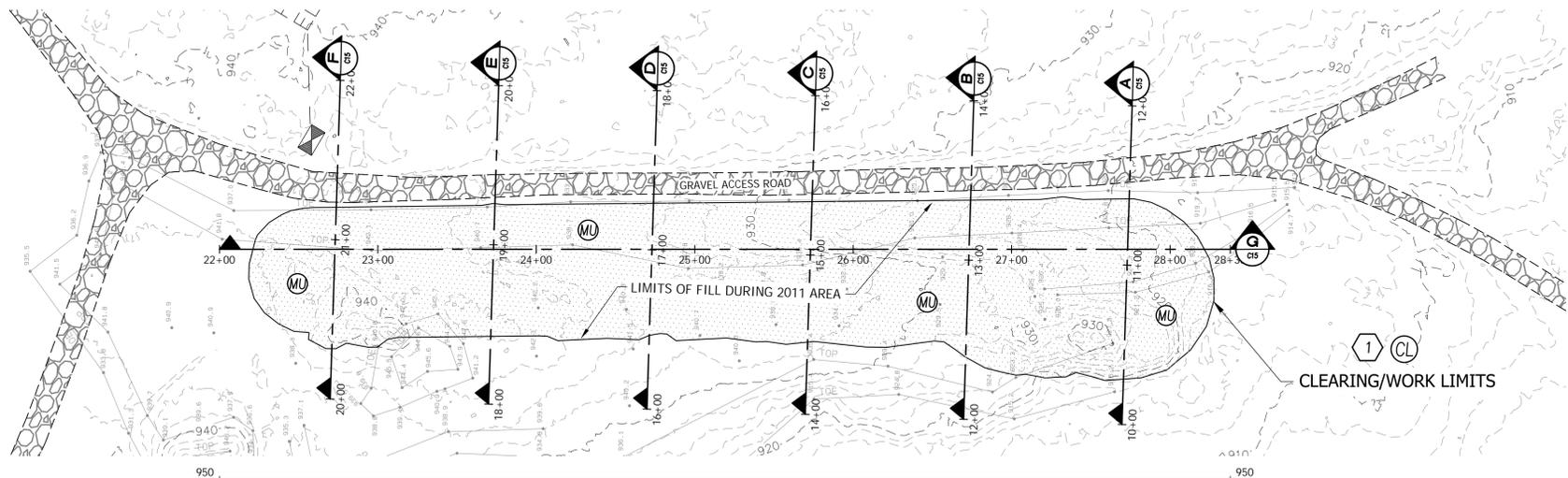
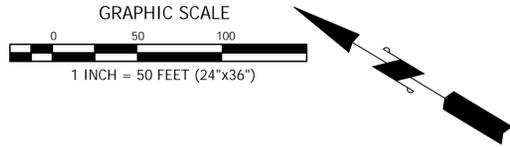
PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2020.06.17
 REVISED:

PROJECT: 09-040
 DWG NAME: 09-040-TRENCH-C

SHEET	REV.
C14	0
14 OF 24	

RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - D



CONSTRUCTION NOTES:

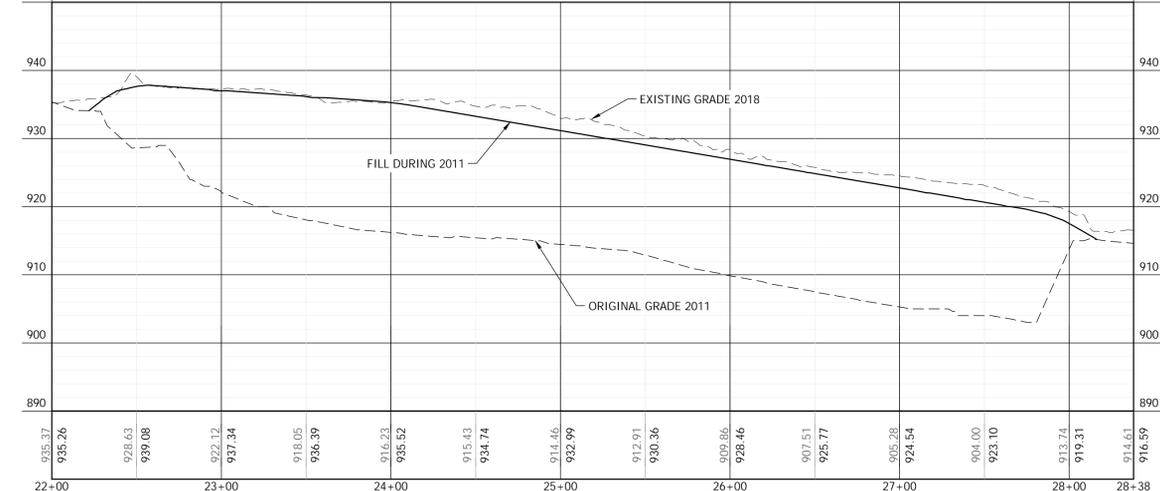
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PLAN NOTES:

1. SEE PLANTING NOTES SHEET C3.
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TESC LEGEND:

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- EB EROSION CONTROL BLANKET



TRENCH D:
 SCALE: 1" = 50' HORIZONTAL
 1" = 12.5' VERTICAL

PERMITTED 2011 IMPORT QUANTITY:	11,125 CY±
AS-BUILT IMPORT QUANTITY 2017:	20,723 CY±
PROPOSED ADDITIONAL IMPORT QUANTITY:	0 CY±
TOTAL IMPORT QUANTITY: (BANK YARDS)	20,723 CY±

QUARRY SPALL NOTE

QUARRY SPALLS UTILIZED FOR "ROCK LINING" FOR INTERCEPTOR DITCHES SHALL MEET THE FOLLOWING GRADATION:

· PASSING 8-INCH SQUARE SIEVE	100%
· PASSING 3-INCH SQUARE SIEVE	40-60% MAX
· PASSING 3/4-INCH SQUARE SIEVE	0-10% MAX

GRADING BENCH NOTE

IF SLOPES ARE GRADED AT 2:1, THEN A 6' GRADING BENCH IS REQUIRED AS SHOWN EVERY 30' OF VERTICAL DROP, AS SHOWN ON PLANS.

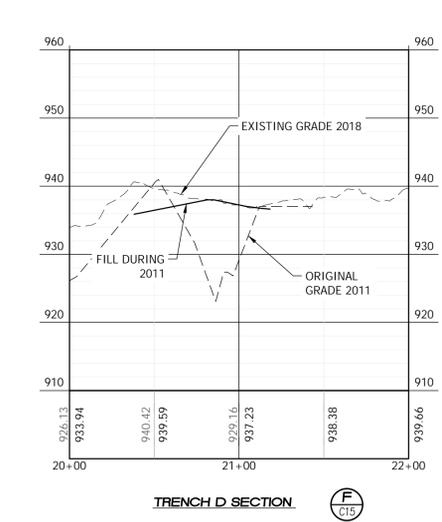
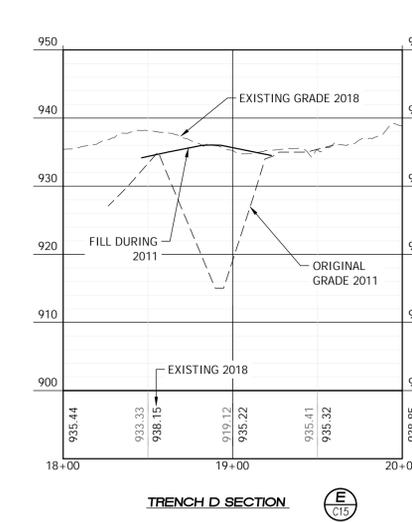
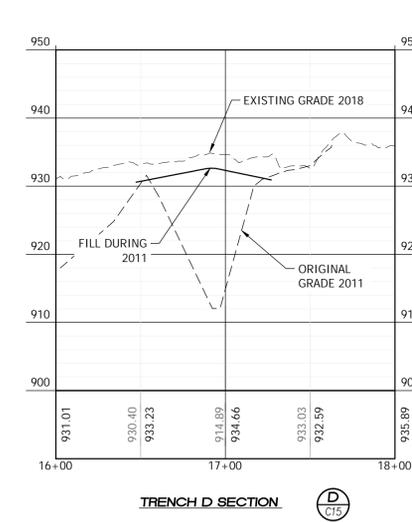
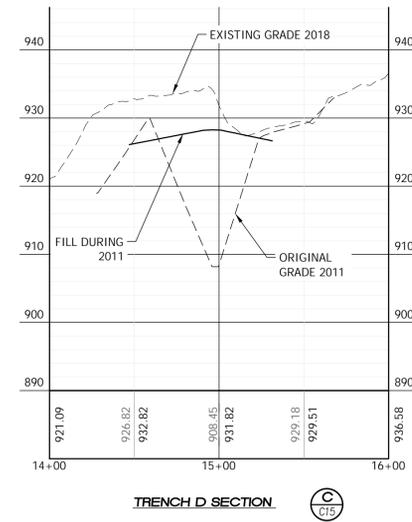
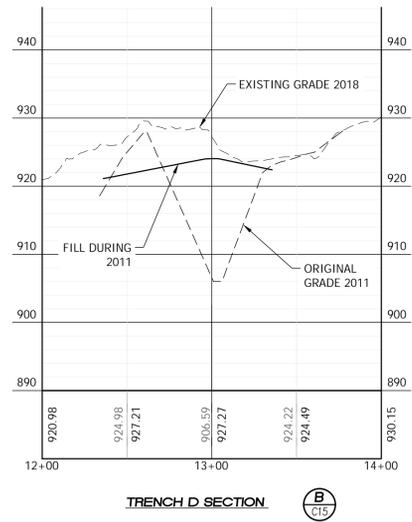
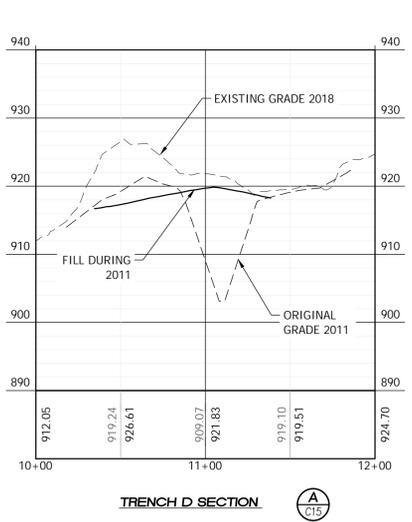
IF SLOPES ARE GRADED AT 3:1, THEN NO BENCH IS REQUIRED PENDING GEOTECHNICAL APPROVAL.

VERIFICATION NOTE

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	BY	DATE	DESCRIPTION	REVISION	

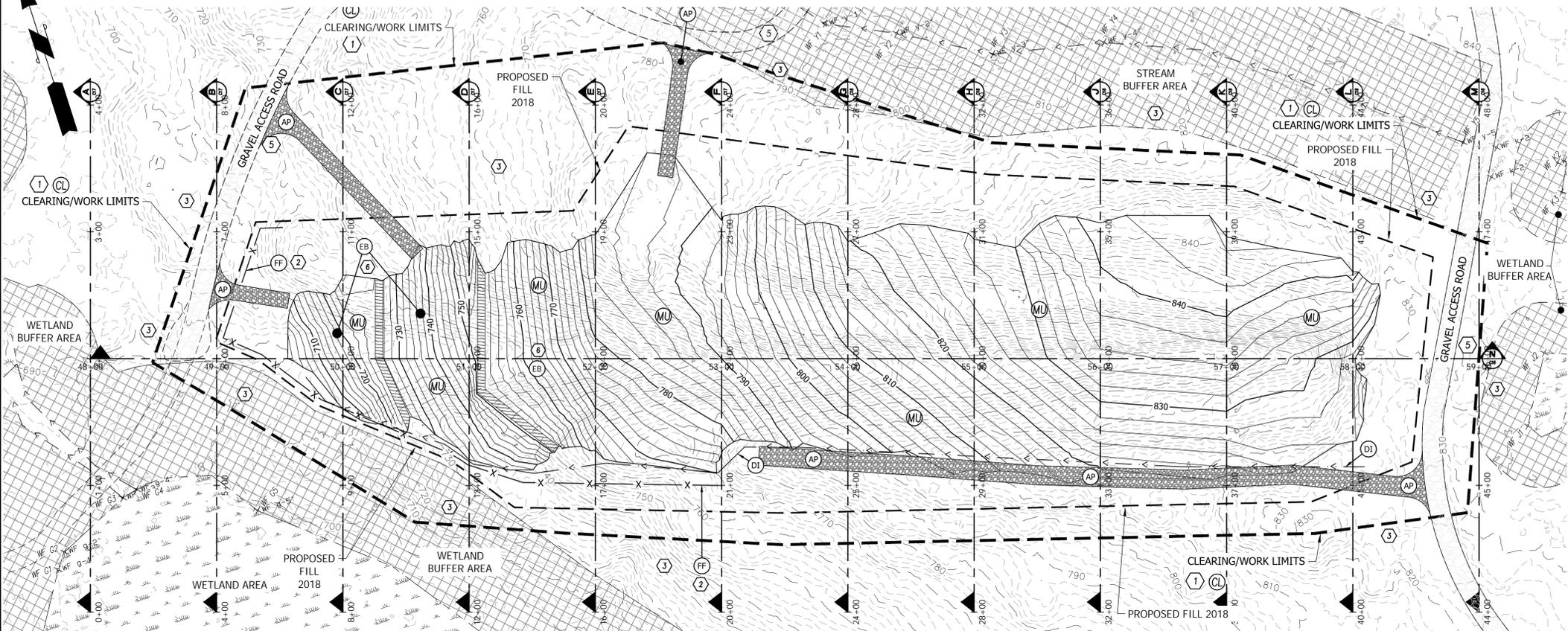
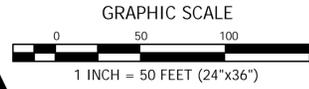
CONTOUR ENGINEERS - SURVEYORS - LAND PLANNERS
 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpllc.com

BRETT M. ALLEN
 REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE: TRENCH - D GRADING AND T.E.S.C. PLAN	PHONE: (253) 606-6060
RAVENSDALE TRENCH FILLING	
CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328	
CONTACT: KURT ERICKSON	

DESIGNER: J. JACOBY	ENGINEER: B. ALLEN
DRAWN: J. JACOBY	
S 1 T 21 NR 6E WM	
DATE: 2020.06.17	
REVISED:	
PROJECT: 09-040	
DWG NAME: 09-040-TRENCH-D	
SHEET	REV.
C15	15 OF 24

RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
TRENCH - G



CONSTRUCTION NOTES:

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- 7 FIELD LOCATE ACTUAL WETLAND AND BUFFER PRIOR TO ANY FILLING. ADJUST EDGE OF FILL/TOE SLOPE TO KEEP ALL WORK OUTSIDE OF BUFFER.

PLAN NOTES:

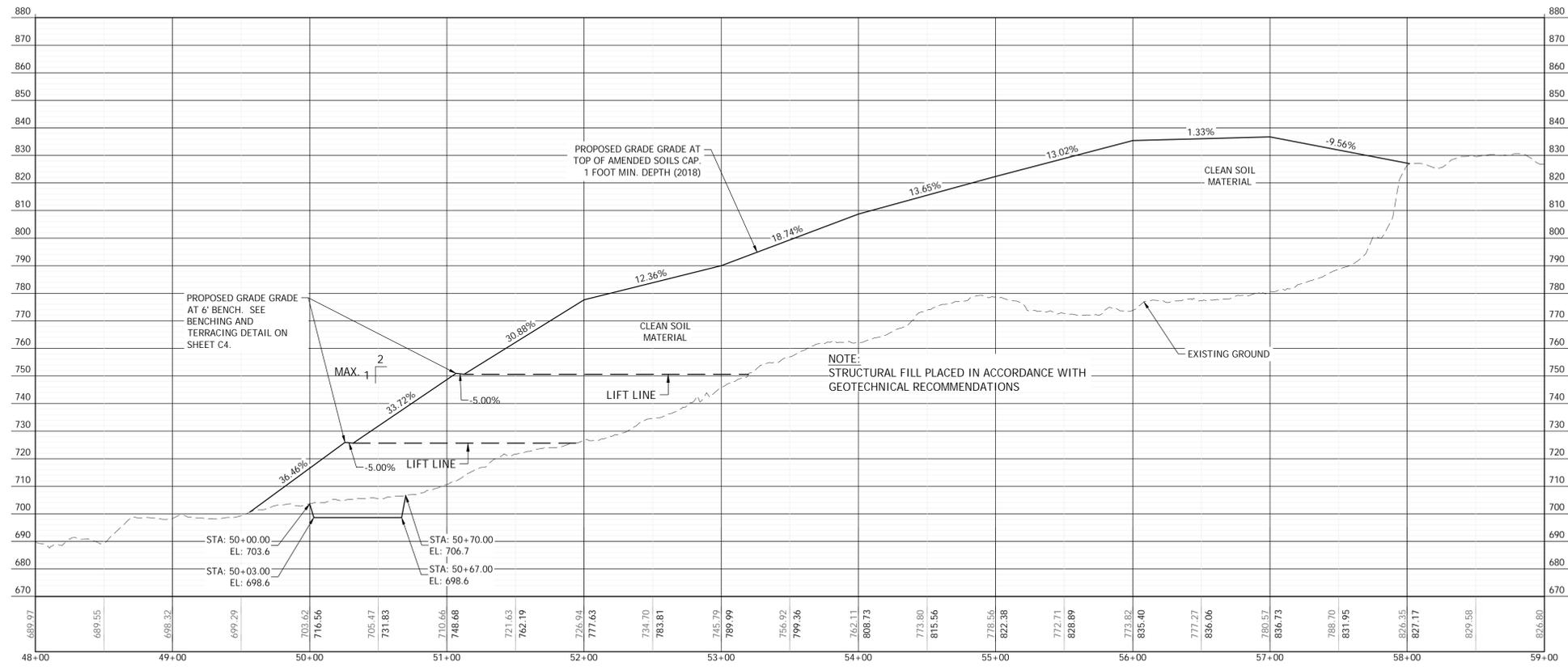
1. SEE PLANTING NOTES SHEET 10.
2. 5' WIDE BENCH VERTICAL SEPARATION PER GEOTECHNICAL ENGINEER REQUIREMENTS.
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- DI ROCK LINED INTERCEPTOR DITCH
- MU HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET C3
- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

BUFFER RESTORATION NOTE:
 REFER TO SOUNDVIEW CONSULTANTS LLC BUFFER RESTORATION PLAN FOR DETAILS.

GRADING BENCH NOTE
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TRENCH G:
 SCALE: 1" = 50' HORIZONTAL
 1" = 25' VERTICAL

PROPOSED GRADE IMPORT QUANTITY: 107,914 CY ±
 (BANK YARDS)

TOP SOIL: 5,544 CY ± *
 *ASSUMING 1' DEPTH

VERIFICATION NOTE
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 PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY EXISTING TOPOGRAPHY IS CONSISTENT WITH WHAT IS SHOWN ON PLANS AND IF THERE ARE ANY POTENTIAL CONFLICTS WITH PROPOSED GRADE CONSTRUCTION ACTIVITIES. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

BY	
DATE	
DESCRIPTION	
REVISION	

CONTOUR ENGINEERING
 CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 - Fax: 253-509-0044 - info@contourplc.com

BRETT M. ALLEN
 REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE: TRACT - G GRADING AND T.E.S.C. PLAN
 RAVENSDALE TRENCH FILLING

CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328

CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 NR 6E WM
 DATE: 2020.06.17
 REVISED:

PROJECT: 09-040
 DWG NAME: 09-040-TRENCH-G

SHEET	REV.
C16	

16 OF 24

GRAPHIC SCALE

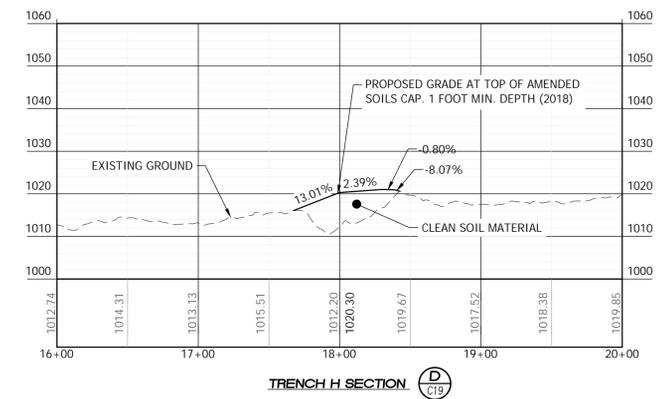
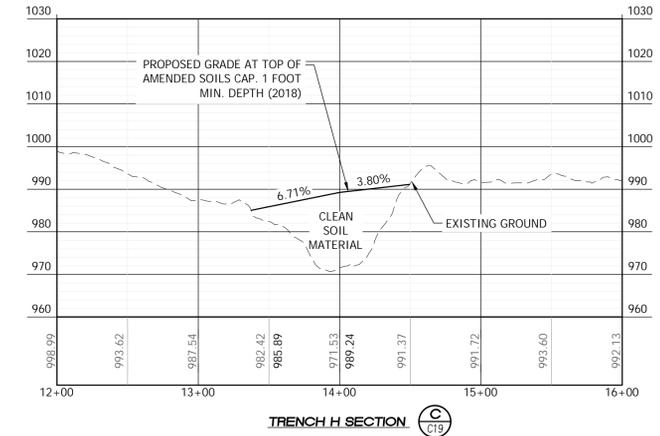
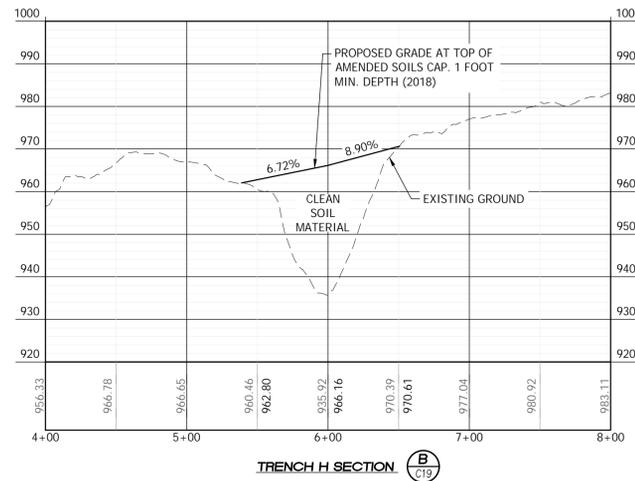
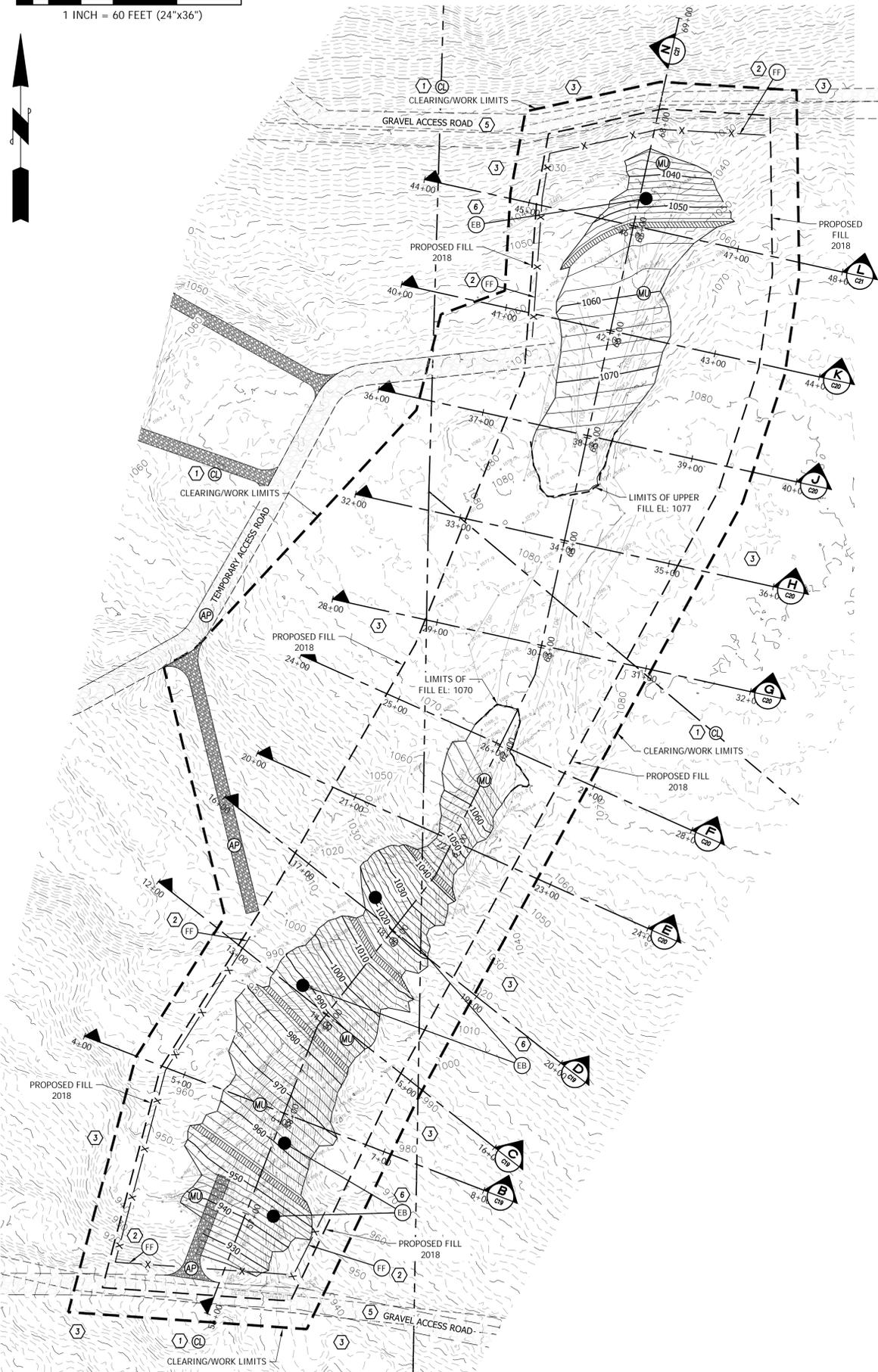


1 INCH = 60 FEET (24"x36")



RAVENSDALE TRENCH FILLING

A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M. KING COUNTY, WASHINGTON TRENCH - H



CONSTRUCTION NOTES:

- 1 LIMIT OF WORK, CLEARING/GRADING LIMITS AS SHOWN
- 2 LOCATE FILTER FABRIC FENCE AS CLOSE TO CLEARING LIMITS AS PRACTICAL.
- 3 UNDISTURBED AREAS.
- 4 WETLAND BUFFER DO NOT DISTURB.
- 5 MAINTAIN EXISTING GRAVEL ACCESS ROAD.
- 6 ARMOR PER GEOTECHNICAL ENGINEER REQUIREMENTS.
- 7 FIELD LOCATE ACTUAL WETLAND AND BUFFER PRIOR TO ANY FILLING. ADJUST EDGE OF FILL/TOE SLOPE TO KEEP ALL WORK OUTSIDE OF BUFFER.

PLAN NOTES:

1. SEE PLANTING NOTES SHEET C3.
2. 5' WIDE BENCH VERTICAL SEPARATION PER GEOTECHNICAL ENGINEER REQUIREMENTS.
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TESC LEGEND:

- AP TEMPORARY ACCESS POINT - AFTER COMPLETION OF PROJECT, ROADBED IS TO BE REMOVED - AREA TO BE HYDROSEEDED & REFORESTED PER FOREST PRACTICE REQUIREMENTS
- FF FILTER FABRIC FENCE SEE NOTES AND DETAIL SHEET C4
- DI ROCK LINED INTERCEPTOR DITCH
- ML HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET C3
- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

GRADING BENCH NOTE

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- PASSING 3-INCH SQUARE SIEVE 40-60% MAX
- PASSING 3/4-INCH SQUARE SIEVE 0-10% MAX

TRENCH H:
SCALE: 1" = 60' HORIZONTAL
1" = 20' VERTICAL

PROPOSED IMPORT QUANTITY: 21,196 CY±
(BANK YARDS)

TOP SOIL: 2,916 CY± *
* ASSUMING 1' DEPTH

VERIFICATION NOTE

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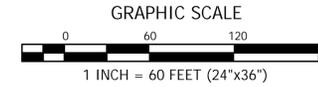
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BY	DATE	DESCRIPTION

REVISION	DESCRIPTION

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CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS
3309 54th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 - Fax: 253-509-0044 - info@contourpllc.com

<p>SHEET TITLE: TRENCH - H GRADING AND T.E.S.C. PLAN RAVENSDALE TRENCH FILLING</p>	<p>CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328</p> <p>CONTACT: KURT ERICKSON PHONE: (253) 606-6060</p>
<p>DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 NR 6E WM DATE: 2020.06.17 REVISED:</p>	
<p>PROJECT: 09-040 DWG NAME: 09-040-TRENCH-H</p>	
<p>SHEET C19</p>	<p>REV. 19 OF 24</p>

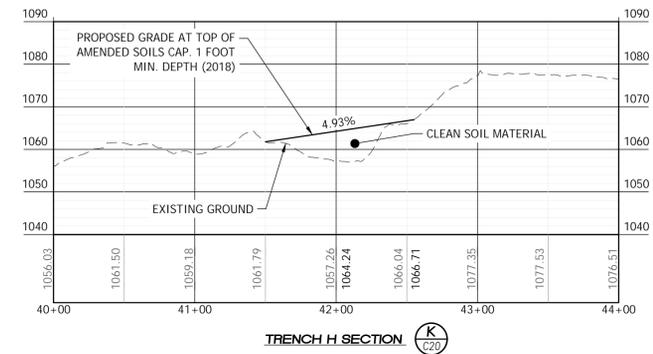
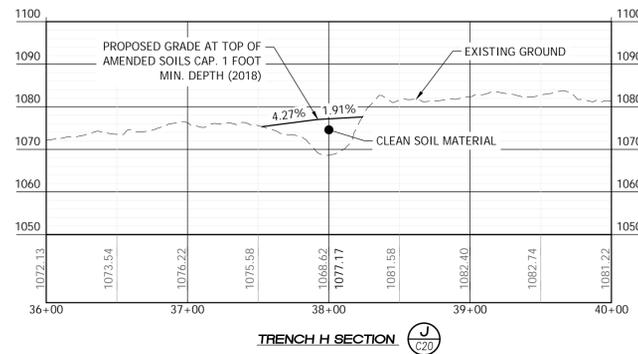
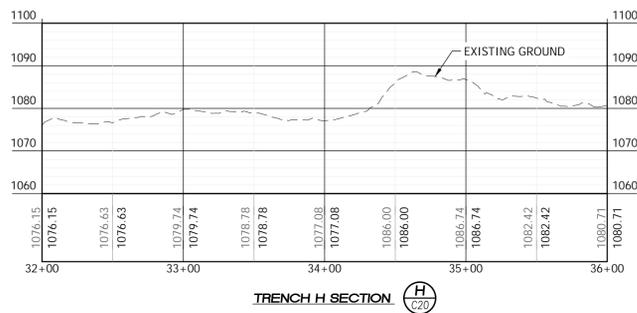
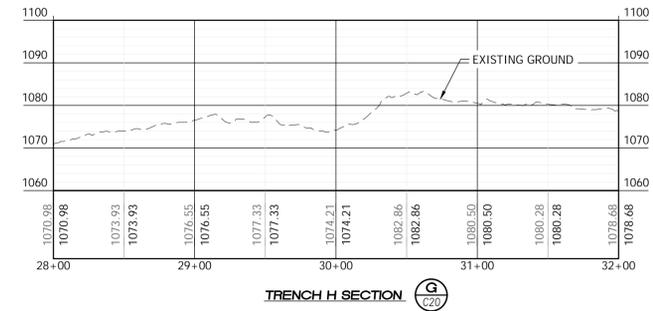
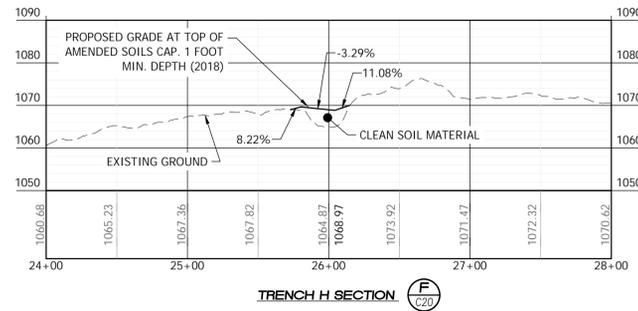
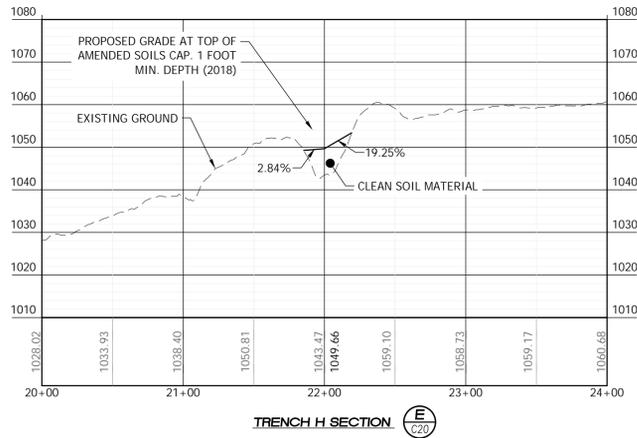


RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - H

TRENCH H:
 SCALE: 1" = 60' HORIZONTAL
 1" = 20' VERTICAL

PROPOSED IMPORT QUANTITY: 21,196 CY±
 (BANK YARDS)

TOP SOIL: 2,916 CY±*
 *ASSUMING 1' DEPTH



VERIFICATION NOTE

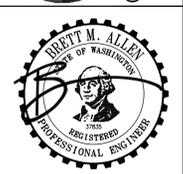
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CONTOUR
 ENGINEERING • LLC
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 3309 54th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpllc.com



SHEET TITLE: TRACT - H	
RAVENSDALE TRENCH FILLING	
CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328	PHONE: (253) 606-6060
DESIGNER: J. JACOBY	ENGINEER: B. ALLEN
DRAWN: J. JACOBY	S 1 T 21 N R 6E WM
DATE: 2020.06.17	REVISER:
PROJECT: 09-040	DWG NAME: 09-040-TRENCH-H
SHEET: C20	REV.:
20 OF 24	0

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RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - H

GRAPHIC SCALE



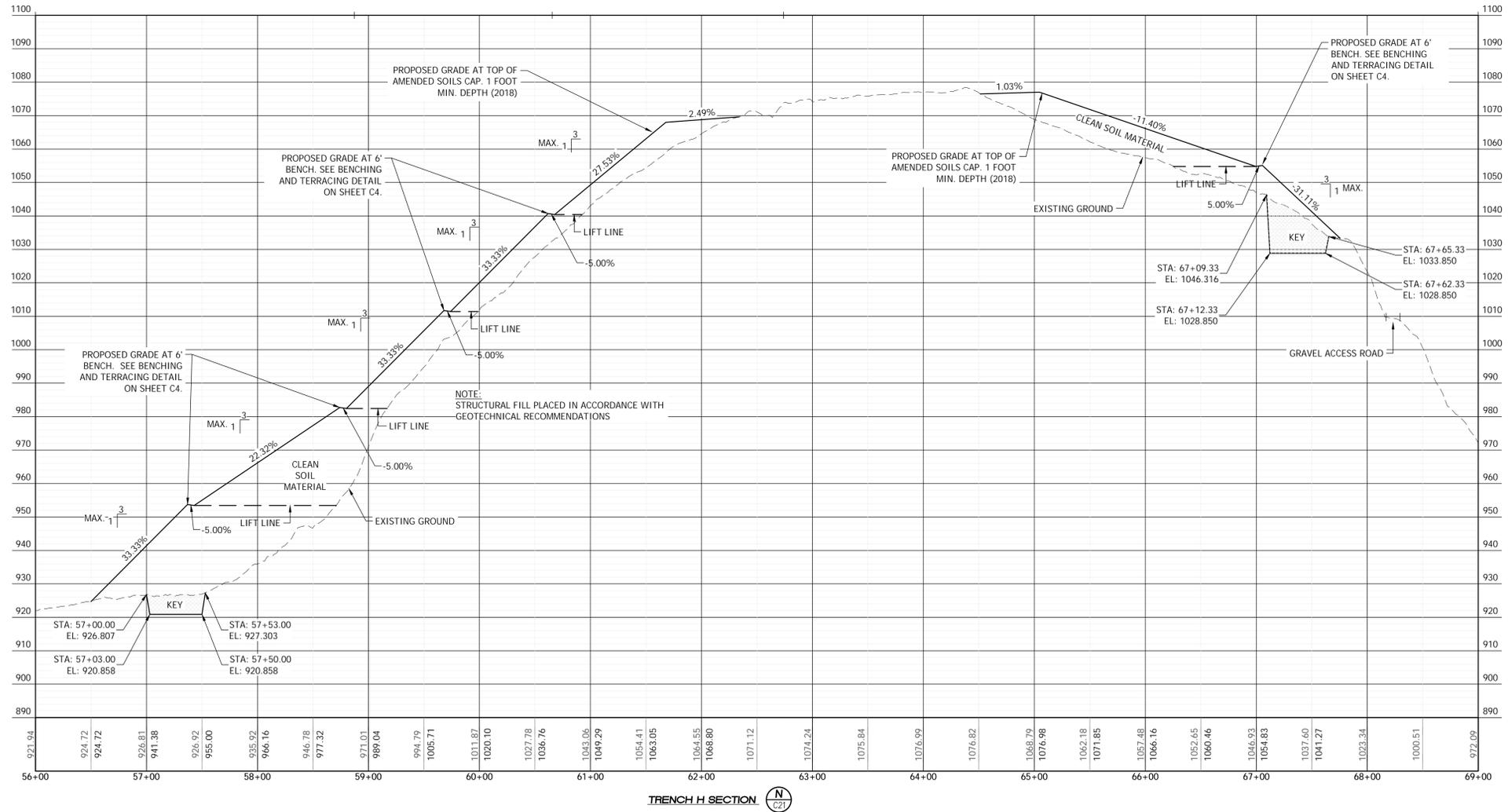
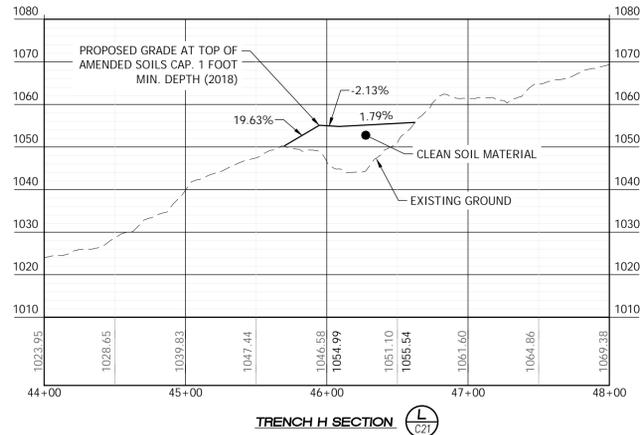
1 INCH = 60 FEET (24"x36")



TRENCH H:

SCALE: 1" = 60' HORIZONTAL
 1" = 20' VERTICAL

PROPOSED IMPORT QUANTITY: 21,196 CY±
 (BANK YARDS)
 TOP SOIL: 2,916 CY±*
 *ASSUMING 1' DEPTH

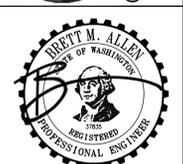


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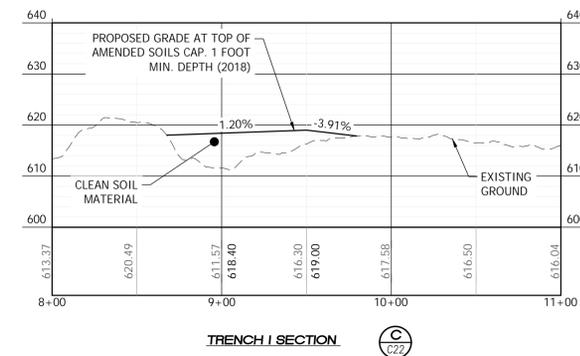
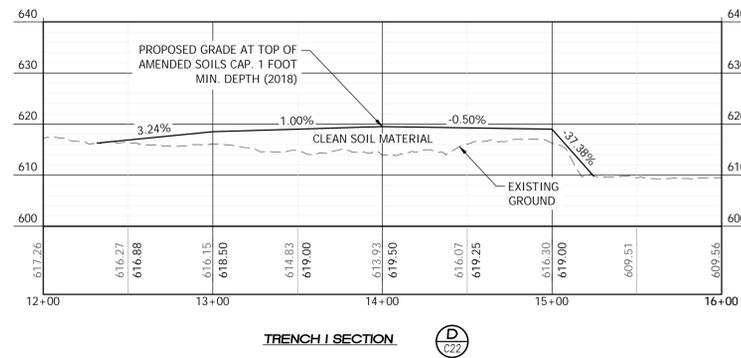
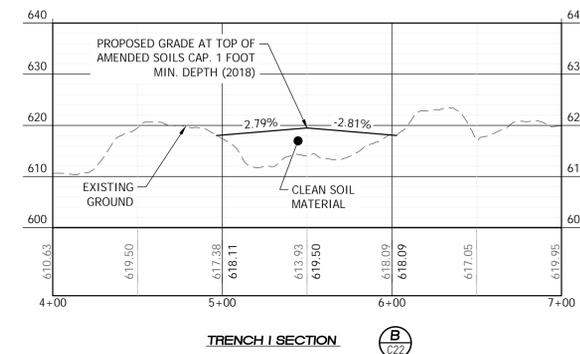
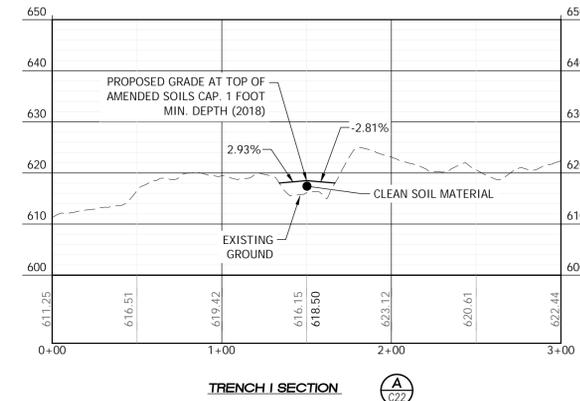
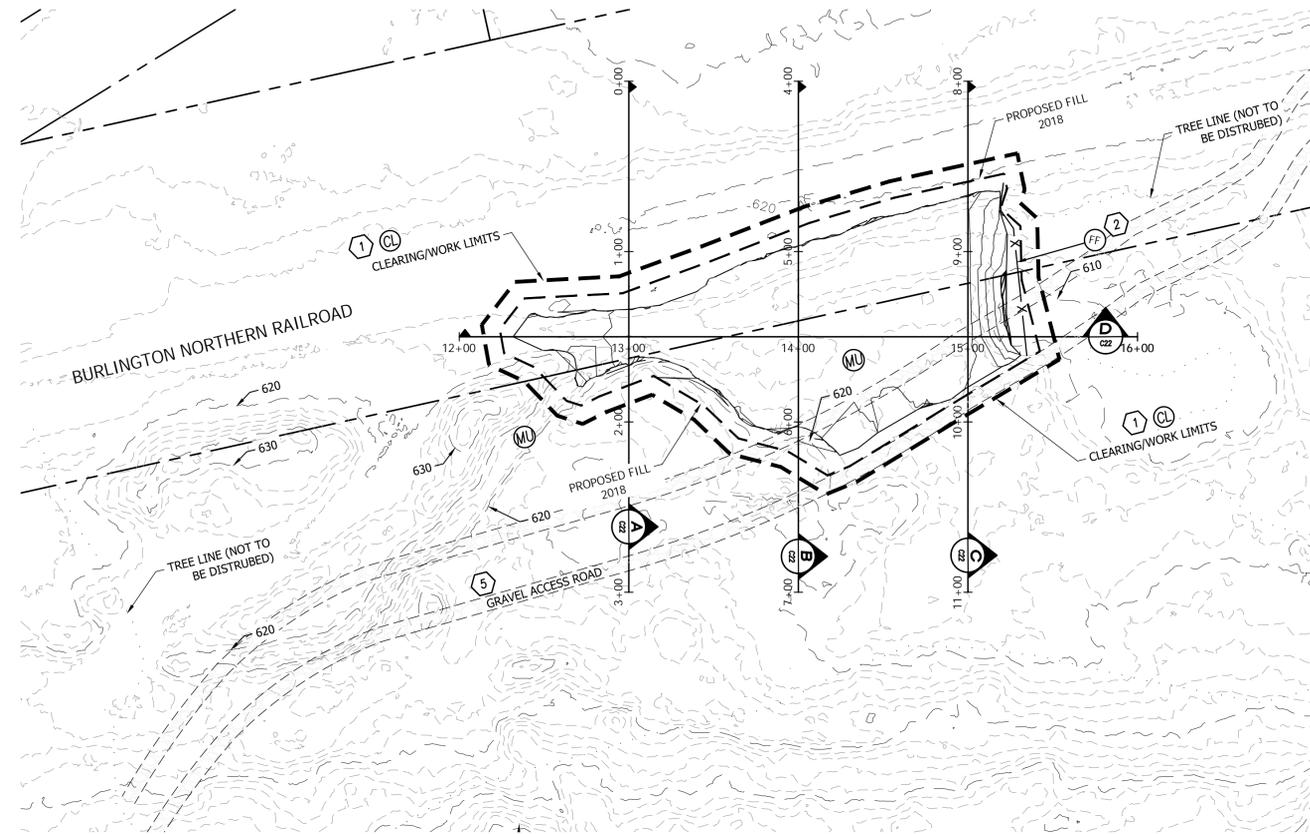
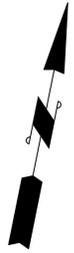
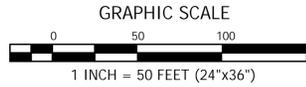
CONTOUR ENGINEERING, LLC
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SHEET TITLE: TRACT - H
 RAVENSDALE TRENCH FILLING
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 41306 90TH AVENUE E
 EATONVILLE, WA 98328
 CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060
 DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2020.06.17
 REVISED:
 PROJECT: 09-040
 DWG NAME: 09-040-TRENCH-H
 SHEET: C21
 REV. 1
 21 OF 24

L:\PROJECT FILES\09-040 RAVENSDALE TRENCH FILLING\SET\09-040-TRENCH-H.DWG

RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
TRENCH - I



GRADING BENCH NOTE

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QUARRY SPALL NOTE

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PASSING 8-INCH SQUARE SIEVE	100%
PASSING 3-INCH SQUARE SIEVE	40-60% MAX
PASSING 3/4-INCH SQUARE SIEVE	0-10% MAX

TESC LEGEND:

	AP	TEMPORARY ACCESS POINT - AFTER COMPLETION OF PROJECT, ROADBED IS TO BE REMOVED - AREA TO BE HYDROSEED & REFORESTED PER FOREST PRACTICE REQUIREMENTS
	FF	FILTER FABRIC FENCE SEE NOTES AND DETAIL SHEET C4
	DI	ROCK LINED INTERCEPTOR DITCH
	MU	HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET C3
	CL	CLEARING/CONSTRUCTION LIMITS
	EB	EROSION CONTROL BLANKET

CONSTRUCTION NOTES:

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PLAN NOTES:

1. SEE PLANTING NOTES SHEET C3.
2. 5' WIDE BENCH VERTICAL SEPARATION PER GEOTECHNICAL ENGINEER REQUIREMENTS.
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TRENCH I:
 SCALE: 1" = 50' HORIZONTAL
 1" = 17.5' VERTICAL

PROPOSED IMPORT QUANTITY: 2,632 CY±
 (BANK YARDS)

TOP SOIL: 850 CY± *
 *ASSUMING 1' DEPTH

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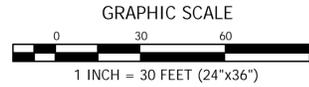
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 BRETT M. ALLEN REGISTERED PROFESSIONAL ENGINEER	
SHEET TITLE:	TRENCH - I GRADING AND T.E.S.C. PLAN
CLIENT:	RAVENSDALE TRENCH FILLING
DESIGNER:	J. JACOBY
ENGINEER:	B. ALLEN
DRAWN:	J. JACOBY
DATE:	2020.06.17
REVISED:	
PROJECT:	09-040
DWG NAME:	09-040-TRENCH-I
SHEET	REV.
C22	
22 OF 24	

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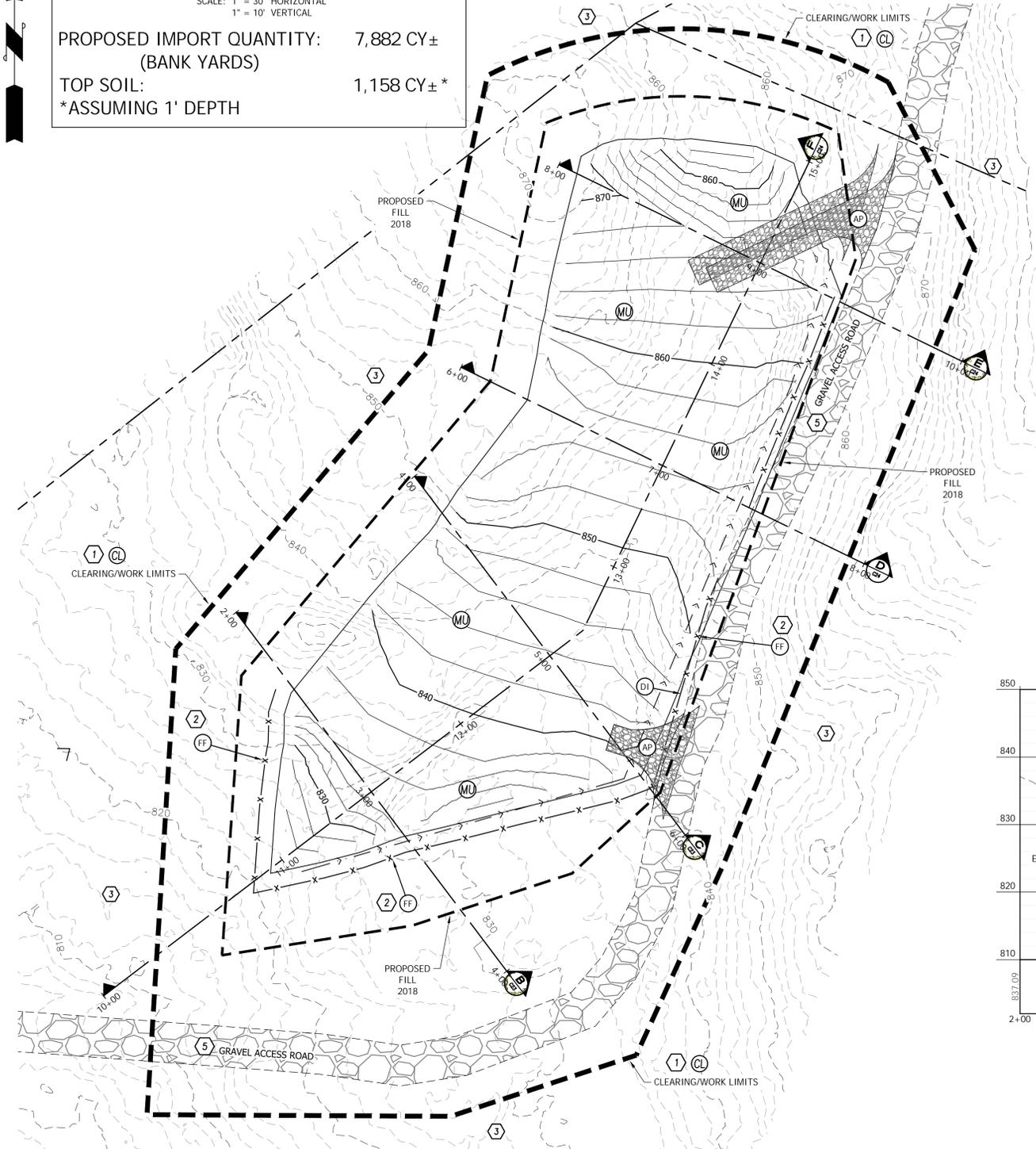
RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - J



TRENCH J:
 SCALE: 1" = 30' HORIZONTAL
 1" = 10' VERTICAL

PROPOSED IMPORT QUANTITY: 7,882 CY±
 (BANK YARDS)

TOP SOIL: 1,158 CY±*
 *ASSUMING 1' DEPTH



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QUARRY SPALL NOTE

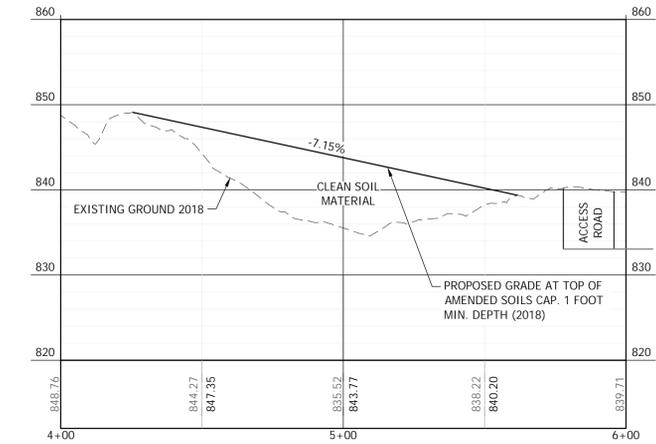
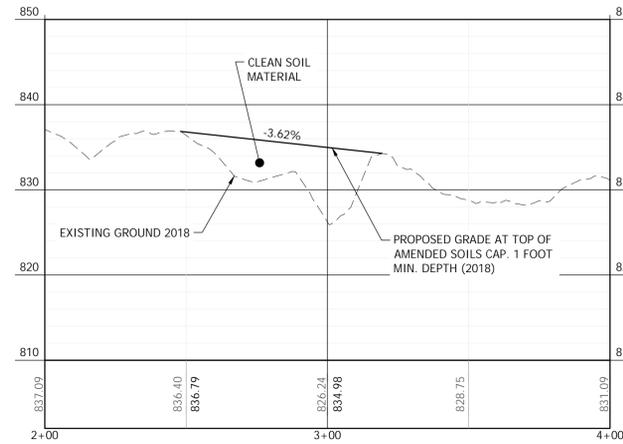
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<p>CONTOUR E. N. G. I. N. E. E. R. I. N. G. • L. L. C. CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpllc.com</p>	
<p>CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328</p>	<p>PHONE: (253) 606-6060</p>
<p>DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E WM DATE: 2020.06.17</p>	<p>CONTACT: KURT ERICKSON</p>
<p>PROJECT: 09-040 DWG NAME: 09-040-TRENCH-J</p>	<p>REVISION:</p>
<p>SHEET: C23 23 OF 24</p>	<p>REV.:</p>

L:\PROJECT FILES\09-040 RAVENSDALE TRENCH\PLAN SET\09-040-TRENCH - J.DWG

RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - J

GRAPHIC SCALE



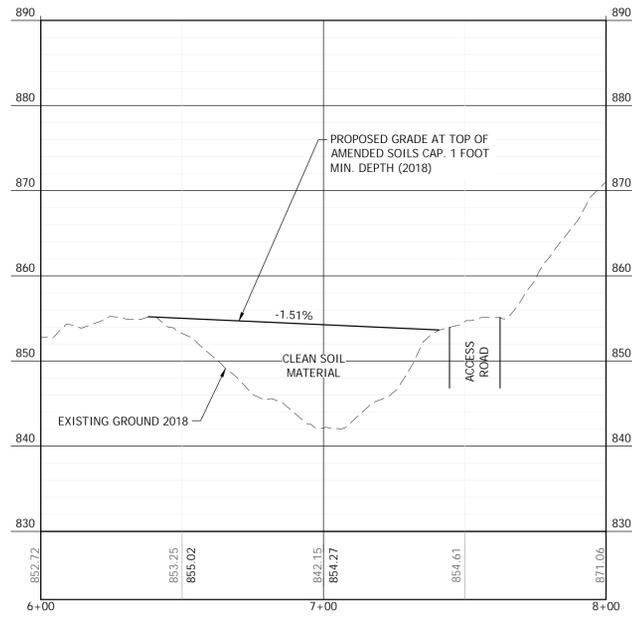
1 INCH = 30 FEET (24"x36")



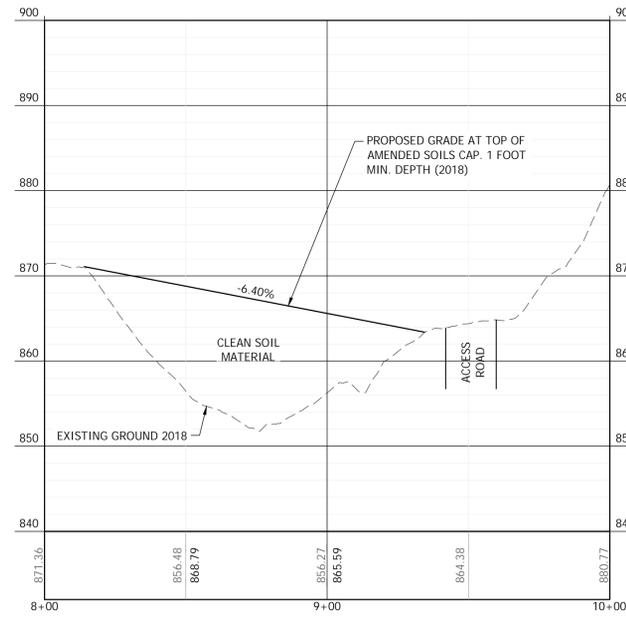
TRENCH J:

SCALE: 1" = 30' HORIZONTAL
 1" = 10' VERTICAL

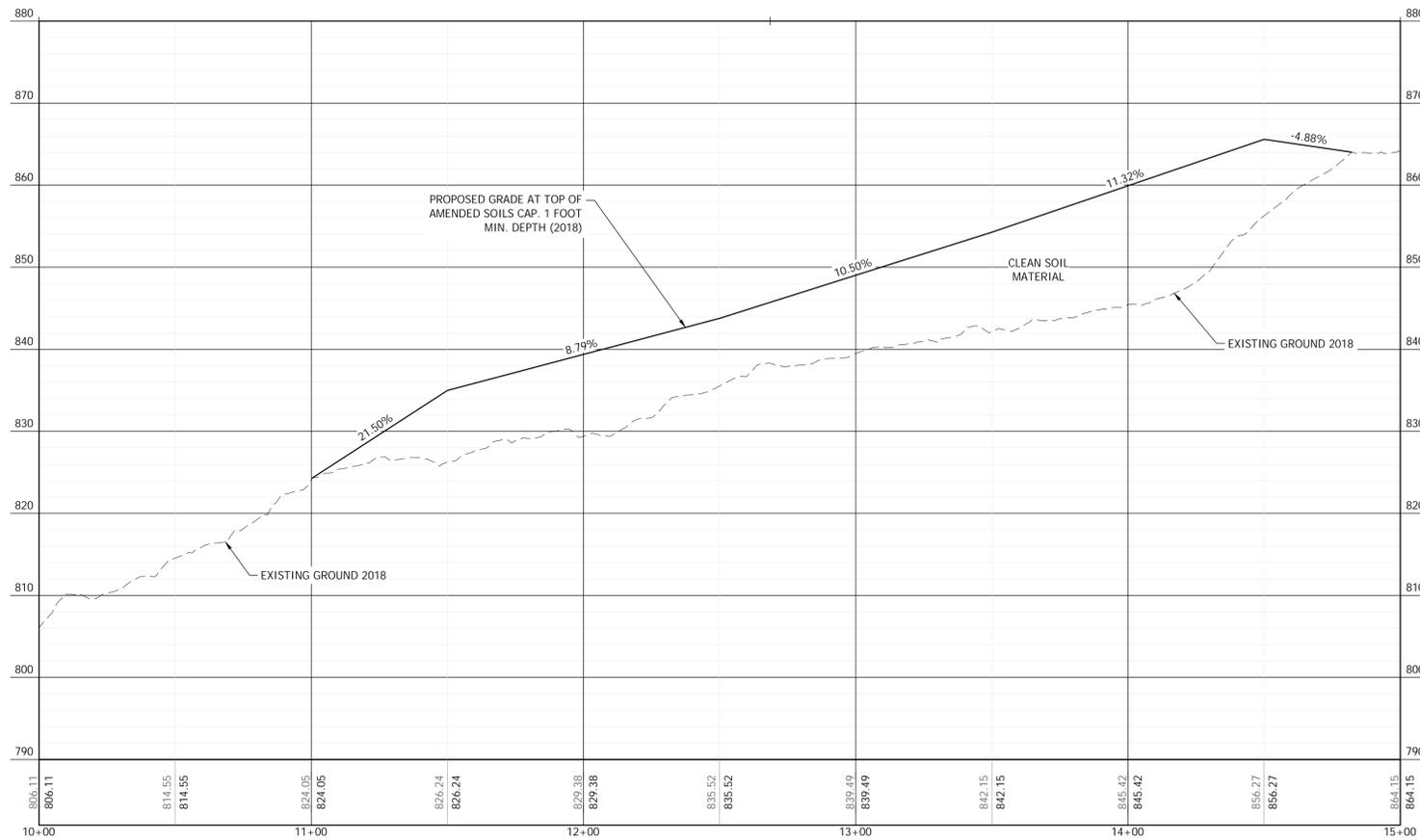
PROPOSED IMPORT QUANTITY: 7,882 CY±
 (BANK YARDS)
 TOP SOIL: 1,158 CY±*
 *ASSUMING 1' DEPTH



TRENCH J SECTION



TRENCH J SECTION



TRENCH J SECTION



VERIFICATION NOTE

ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA SHALL BE IDENTIFIED AND VERIFIED FOR DEPTH AND LOCATION PRIOR TO ANY CONSTRUCTION ACTIVITIES SO TO IDENTIFY ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY EXISTING TOPOGRAPHY IS CONSISTENT WITH WHAT IS SHOWN ON PLANS AND IF THERE ARE ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION ACTIVITIES. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

REVISION	DESCRIPTION	DATE	BY

	F. N. G. I. N. E. R. I. N. G. • L.L.C. CIVIL ENGINEERS - SURVEYORS - LAND PLANNERS 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpllc.com
SHEET TITLE: TRENCH - J RAVENSDALE TRENCH FILLING CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328 CONTACT: KURT ERICKSON PHONE: (253) 606-6060	DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E WM DATE: 2020.06.17 REVISED: PROJECT: 09-040 DWG NAME: 09-040-TRENCH-J SHEET: C24 REV.: 24 OF 24

L:\PROJECT FILES\09-040 RAVENSDALE TRENCH FILLING\SET\09-040-TRENCH - J.DWG