

Ph. 253-896-1011
Fx. 253-896-2633

GeoResources, LLC

5007 Pacific Hwy. E., Suite. 16
Fife, Washington 98424

July 11, 2018

Erickson Logging
PO Box 365
Gig Harbor, WA 98335
Attn: Mr. Kurt Erickson & Mr. Fred Wagner
ericksonloggin@aol.com

Geotechnical Consultation 3
Site Grading Plans
Black Diamond-Ravensdale Rd.
King County, Washington
Job No:Erickson.BlackDiamond.L3

This letter provides information related to proposed grading or infilling of the old mine workings located on the subject site. We understand that King County has requested a letter verifying that the proposed grading will result in a stable site or slope configuration. The proposed end use of the site is reforestation, back to its original forested condition. Attached are the proposed grading plans, dated May 24, 2018.

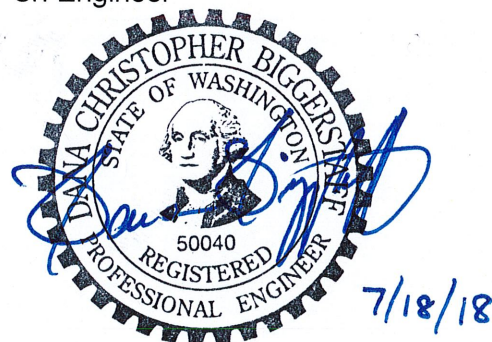
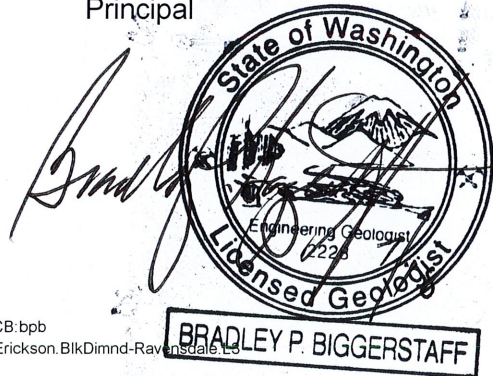
Based on our previous work and May 29, 2017 report for the site, our review of the current grading plans and our experience in the area, it is our opinion that provided grading at the site is in accordance with our previous geotechnical recommendations and the Contour May 24, 2018 grading plans, the site will conform to the DNR reclamation guidelines; 2 to 1 or flatter slopes. Fill material should be placed in accordance with the geotechnical recommendations provided; fill material should be placed in controlled lifts compacted to a minimum of 90 percent MDD, and verified by appropriate testing methods. Where fill occurs on unconfined slopes, the fill should be benched or keyed into the existing slope after vegetation and topsoil material are removed. As previously noted, the installation and maintenance of appropriate erosion control and drainage measures are necessary for stable conditions.

We appreciate the opportunity to be of continued service to you on this project. If you have any question or need additional information, please contact us.

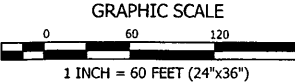
Yours very truly,
GeoResources, LLC

Brad Biggerstaff, LEG, LHG, QE
Principal

Dana C. Biggerstaff, PE
Sr. Engineer



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 - E



CONSTRUCTION NOTES:

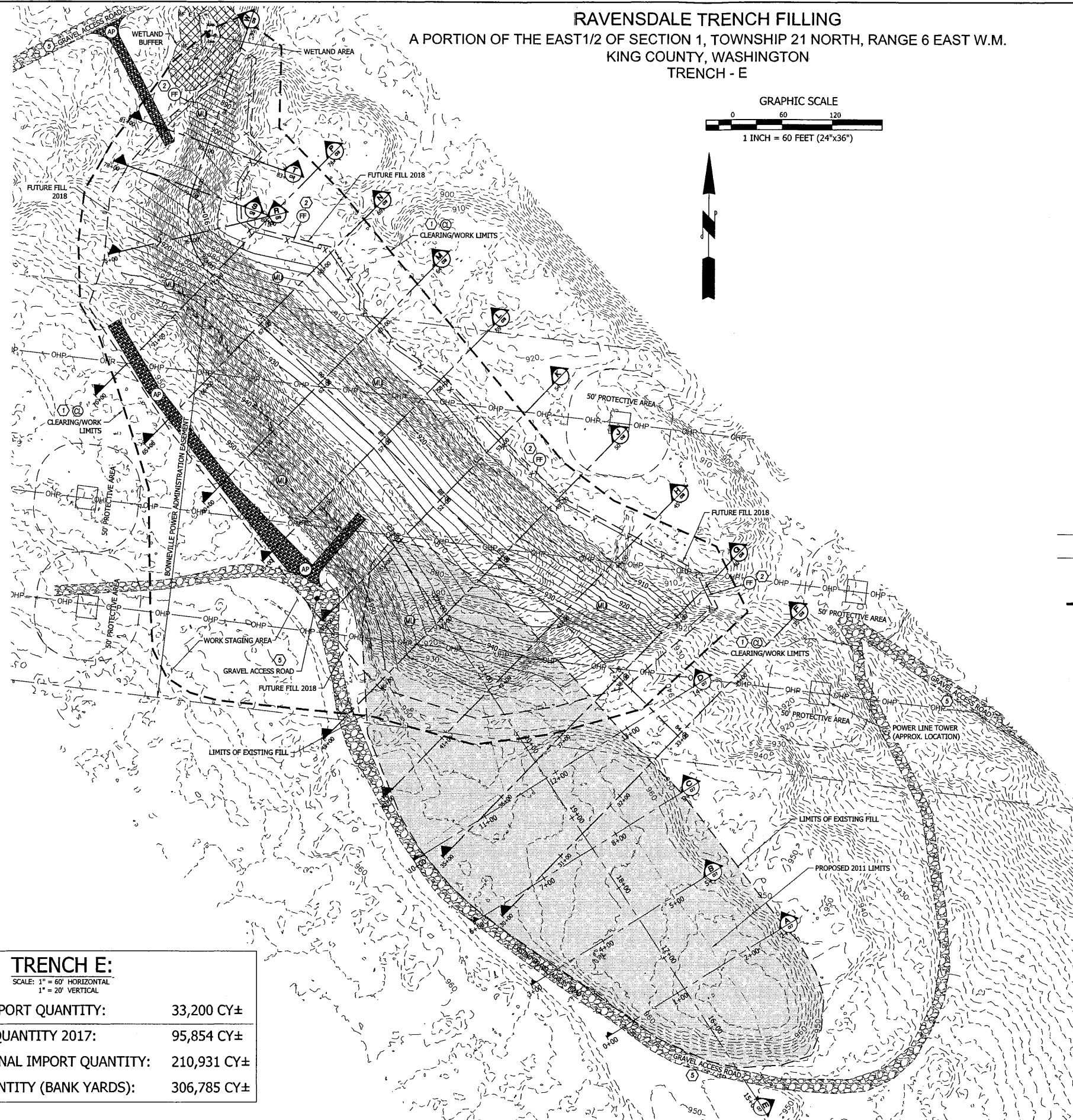
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- ② LOCATE FILTER FABRIC FENCE AS CLOSE TO CLEARING LIMITS AS PRACTICAL.
- ③ UNDISTURBED AREAS.
- ④ WETLAND BUFFER DO NOT DISTURB.
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- ⑥ ARMOR PER GEOTECHNICAL ENGINEER REQUIREMENTS.
- ⑦ FIELD LOCATE 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 10.
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 ENCRÖACH INTO WETLAND BUFFER.
4. ACCESS ROADS SHOW ARE FOR REFERENCE ONLY. LOCATIONS SUBJECT TO BE MODIFIED AS NEEDED FOR FILLING OPERATIONS.

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 4
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- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

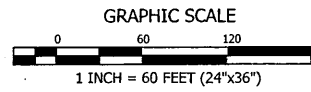


TRENCH E:	
SCALE: 1" = 60' HORIZONTAL 1" = 20' VERTICAL	
PERMITTED 2011 IMPORT QUANTITY:	33,200 CY±
AS-BUILT IMPORT QUANTITY 2017:	95,854 CY±
PROPOSED ADDITIONAL IMPORT QUANTITY:	210,931 CY±
TOTAL IMPORT QUANTITY (BANK YARDS):	306,785 CY±

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.
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CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

REVISION		DESCRIPTION
DATE		BY
SHEET TITLE: TRACT - E DESIGNER: J. JACOBY ENGINEER: B. ALLEN 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-E DATE: 2018-05-08 REVISION:		
SHEET	REV.	
C16		
16 OF 33		

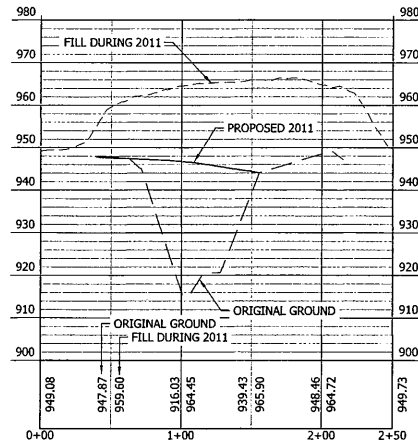


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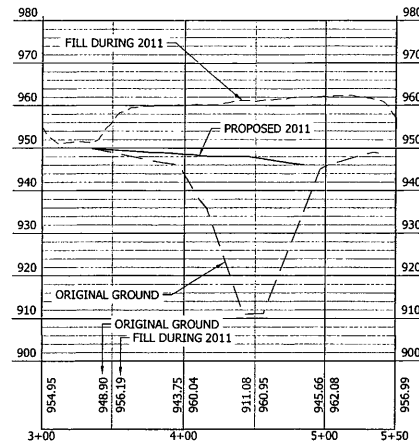
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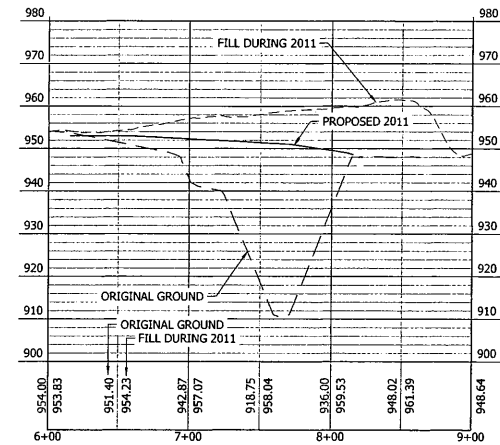
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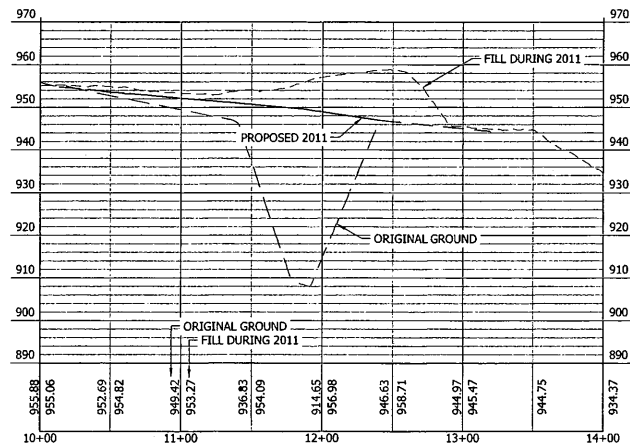
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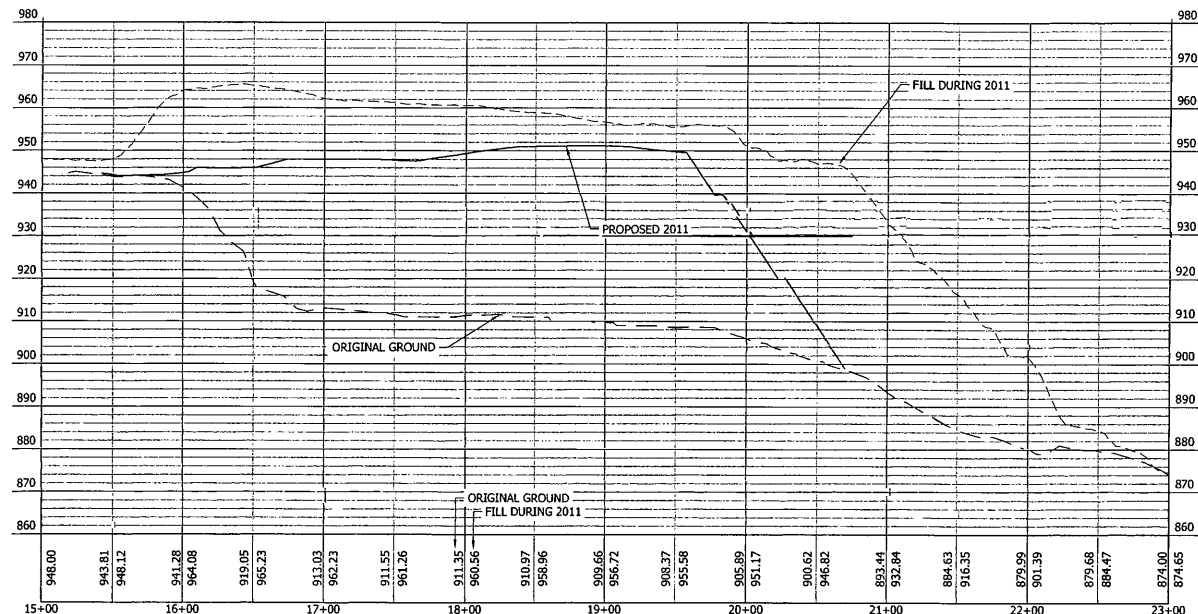
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TRENCH E SECTION C
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TRENCH E SECTION D
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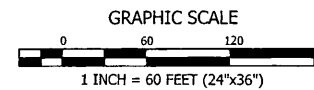
TRENCH E SECTION E
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CONTOUR	
ENGINEERING • LLC	
CIVIL ENGINEERS • SURVEYORS • LAND PLANNERS	
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335	
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplc.com	

SHEET TITLE: TRACT - E	
RAVENSDALE TRENCH FILLING	
CLIENT: RAVENSDALE LLC	PHONE: (253) 606-6060
41306 90TH AVENUE E	
EATONVILLE, WA 98328	
CONTACT: KURT ERIKSSON	

DESIGNER: J. JACOBY	
ENGINEER: B. ALLEN	
DRAWN: J. JACOBY	
S 1 T 21 NR 6E WM	
DATE: 2018-05-08	
REVISED:	
PROJECT: 09-040	
DWG NAME: 09-040-TRENCH-E	
SHEET	REV.
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17 OF 33	

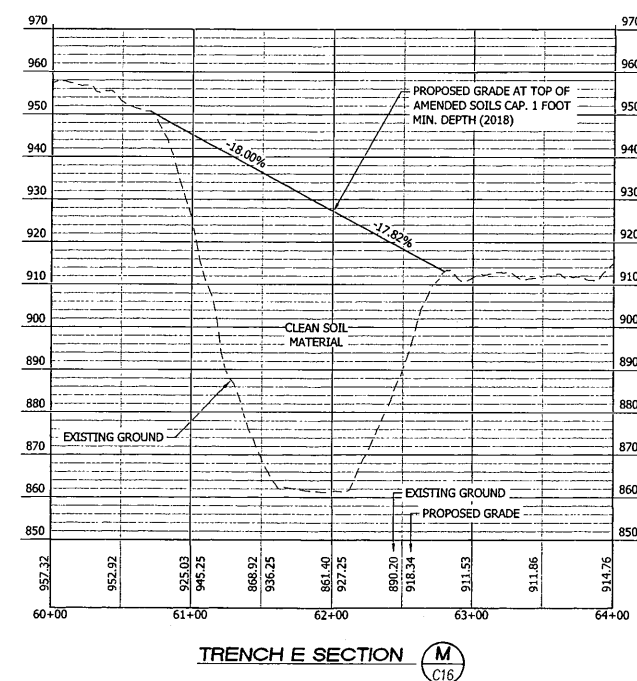
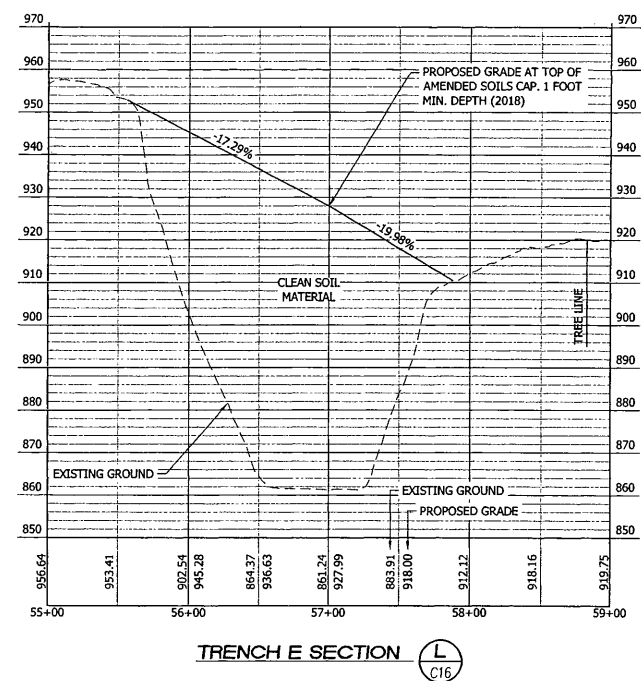
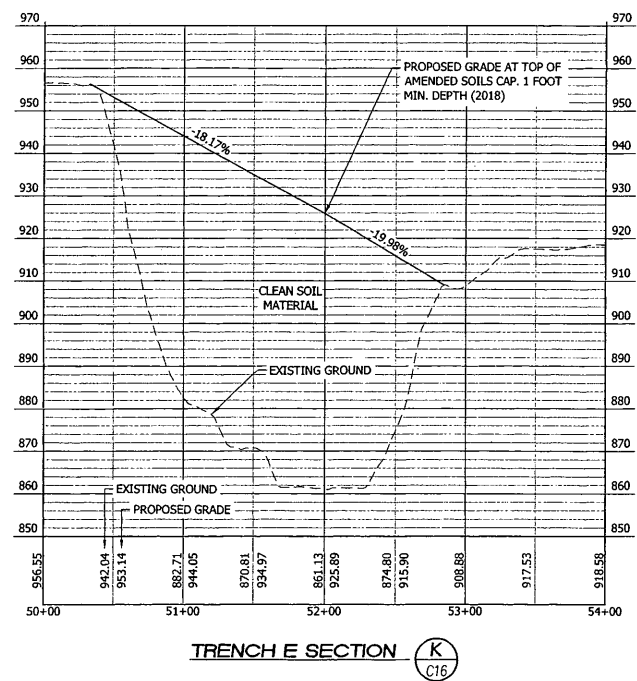
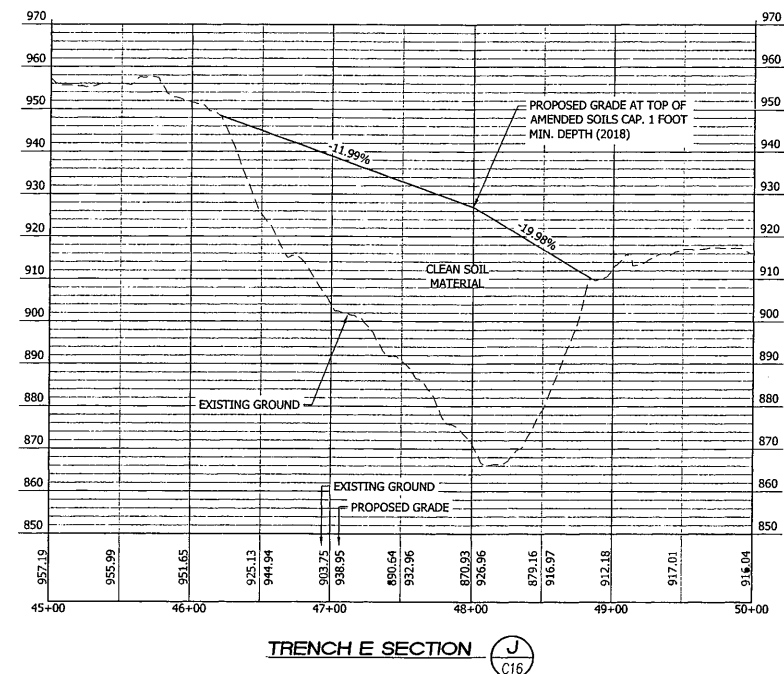
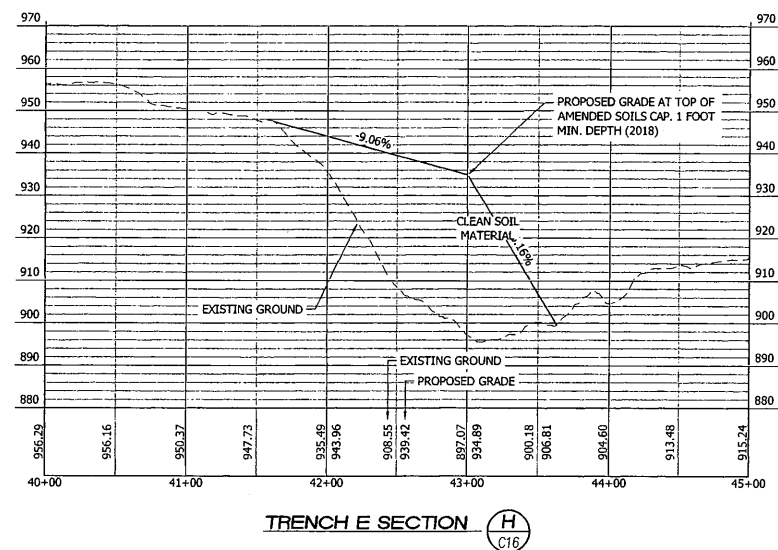
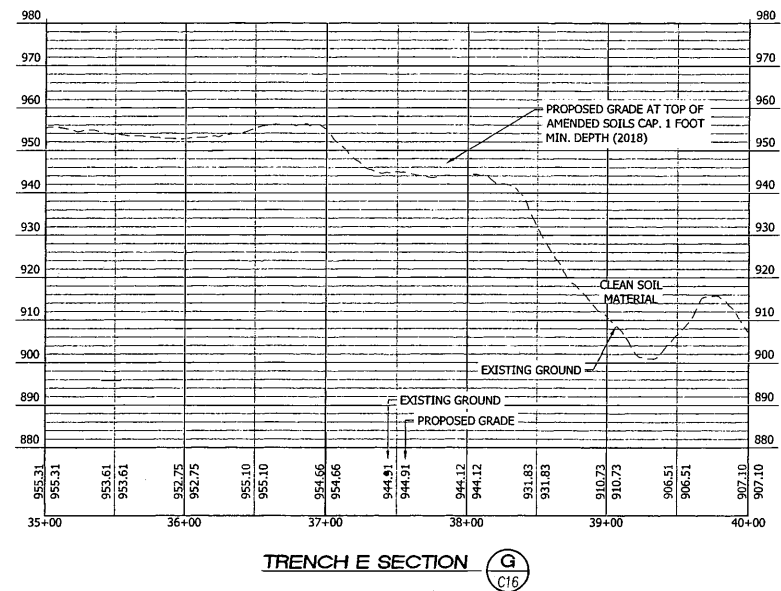


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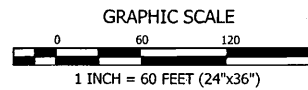
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CONTOUR ENGINEERS - SURVEYORS - LAND PLANNERS	3309 56th Street NW, Suite 106 Gig Harbor, WA 98335 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourpl.com
SHEET TITLE: TRACT - E RAVENSDALE TRENCH FILLING CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328 CONTACT: KURT ERICSON PHONE: (253) 606-6060	
DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E WM DATE: 2018-05-08 REVISED: PROJECT: 09-040 DWG NAME: 09-040-TRENCH-E	
SHEET C18 18 OF 33	REV.

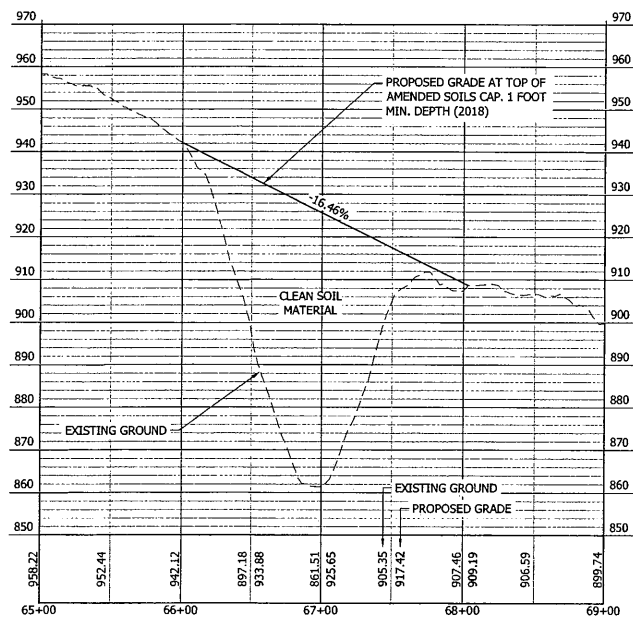


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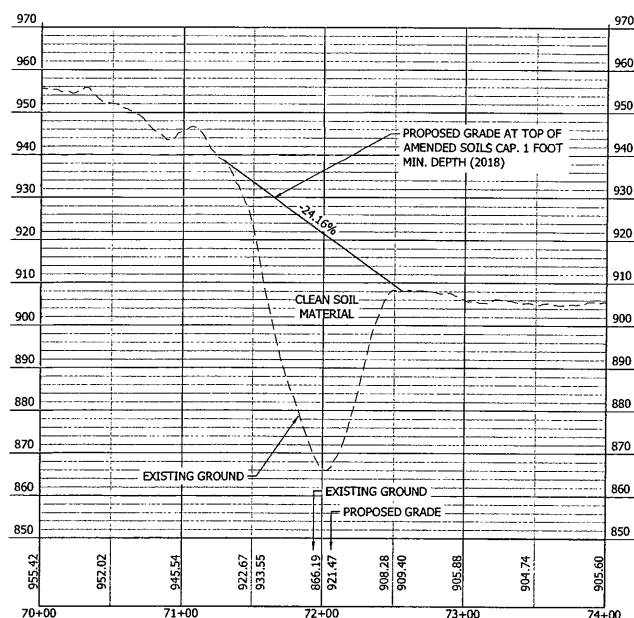
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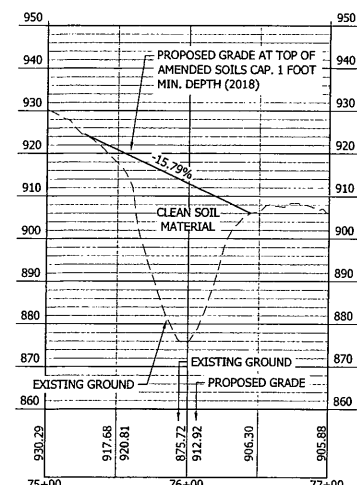
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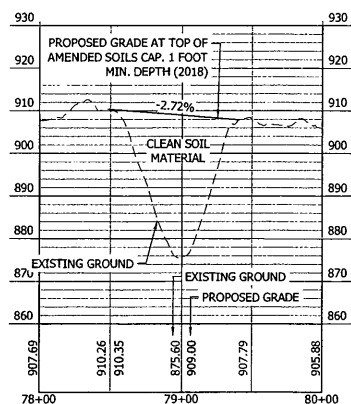
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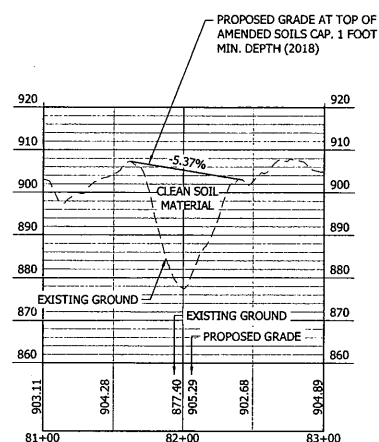
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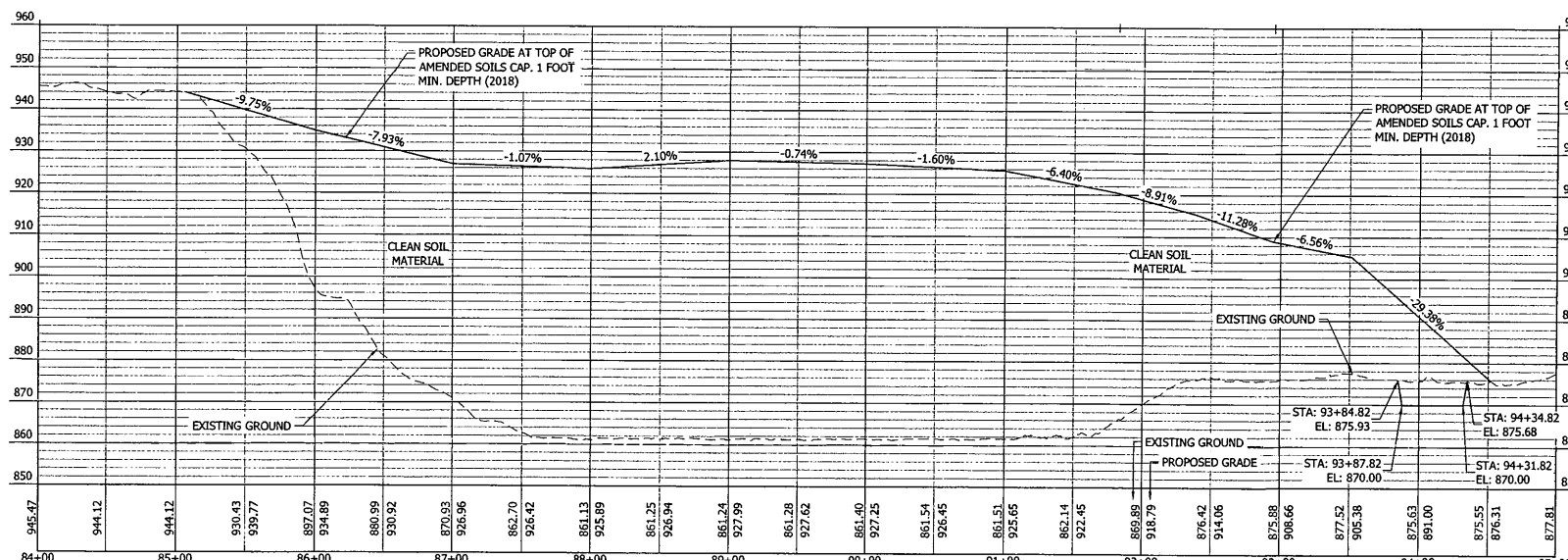
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TRENCH E SECTION **(S)**
C16



TRENCH E SECTION **(T)**
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TRENCH E SECTION **(W)**
C16

BY	
DATE	
DESCRIPTION	
REVISION	

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@contourllc.com

BRETT M. ALLEN
 STATE OF WASHINGTON
 REGISTERED PROFESSIONAL ENGINEER

SHEET TITLE: **TRACT - E**

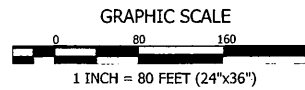
RAVENSDALE TRENCH FILLING
 CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328
 CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2018-05-08
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 DWG NAME: 09-040-TRENCH-E

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19 OF 33



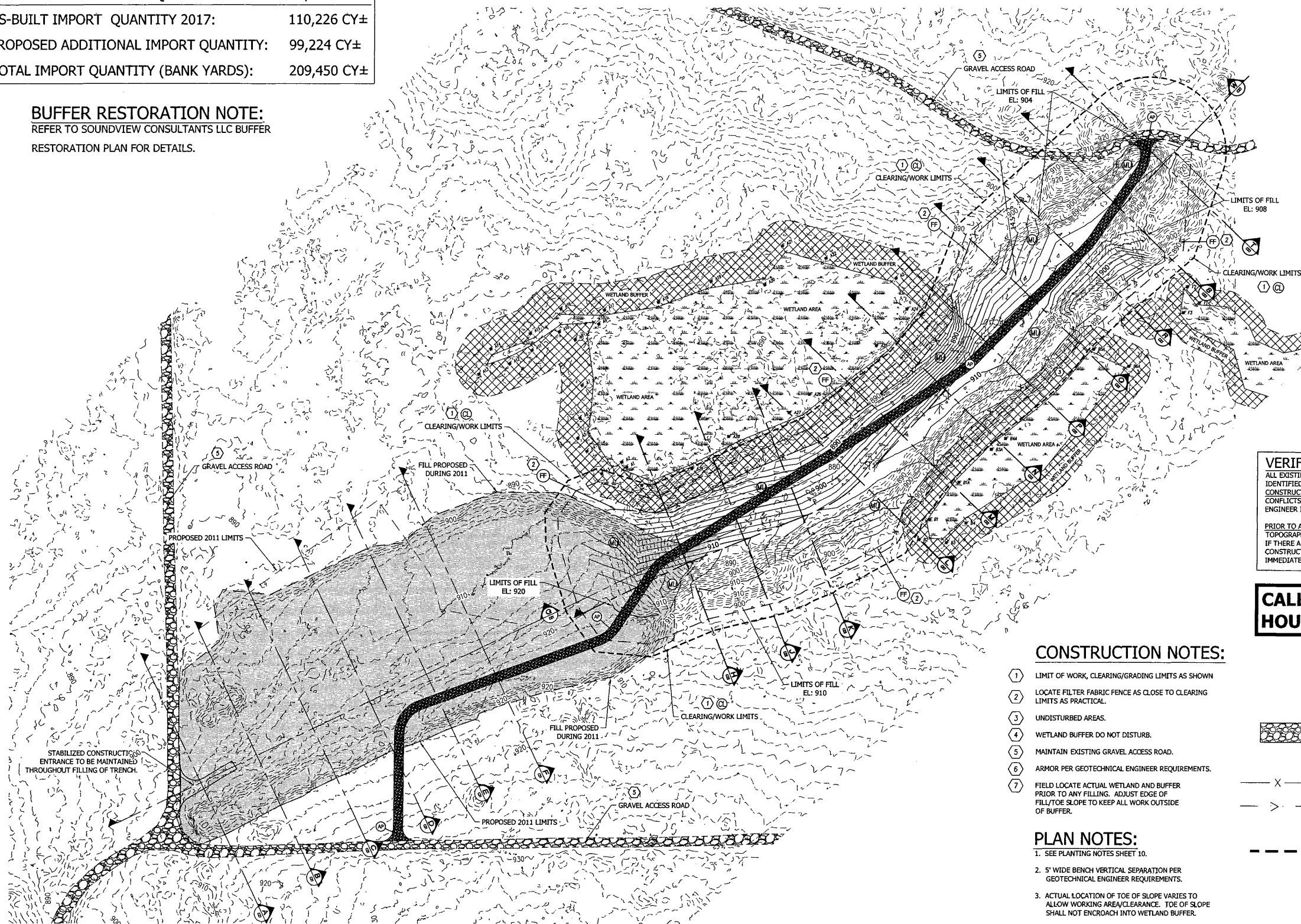
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BUFFER RESTORATION NOTE:
 REFER TO SOUNDVIEW CONSULTANTS LLC BUFFER RESTORATION PLAN FOR DETAILS.



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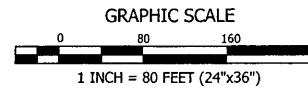
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41306 90TH AVENUE E	
EATONVILLE, WA 98328	
CONTACT: KURT ERICKSON	

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PROJECT: 09-040	
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20 OF 33	

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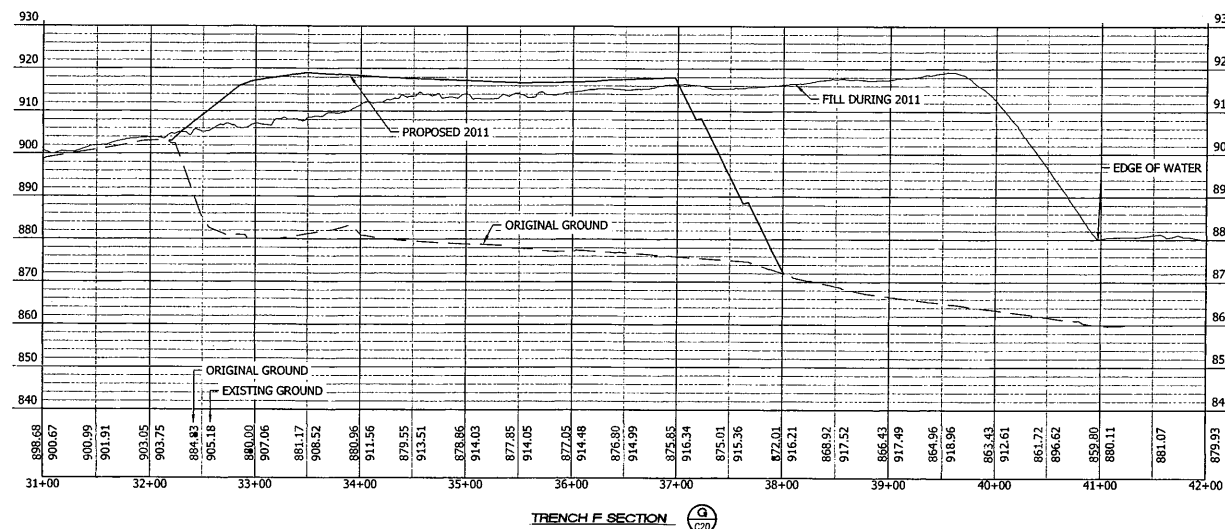
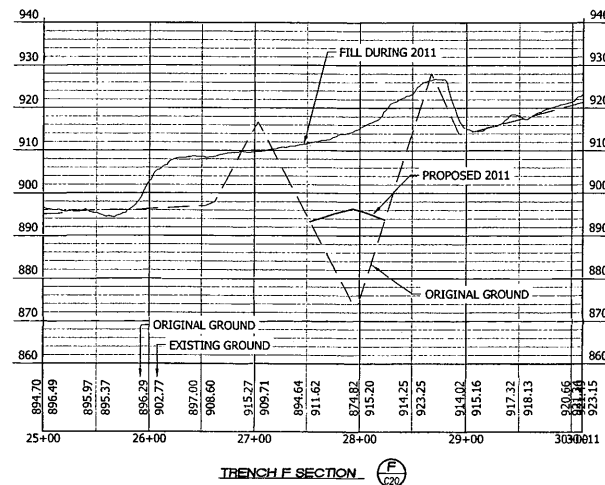
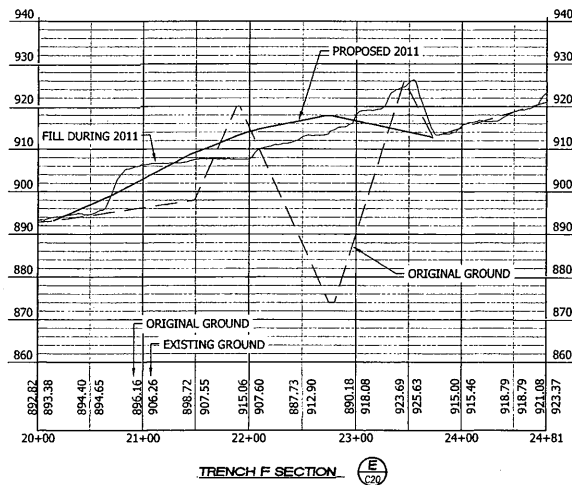
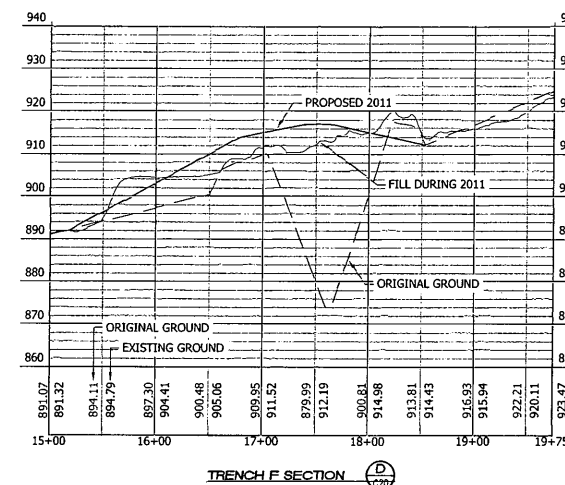
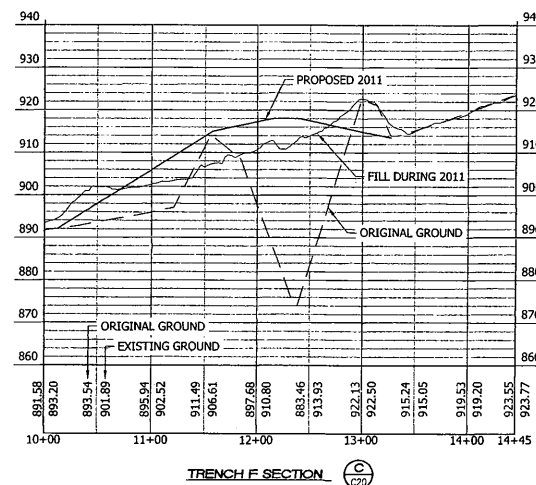
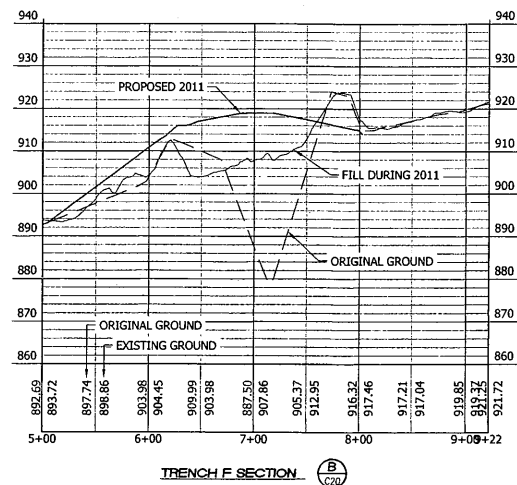
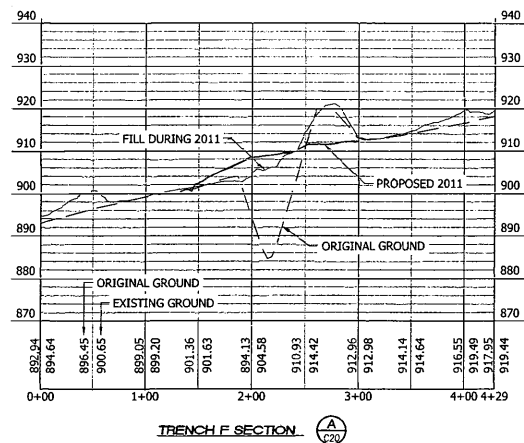


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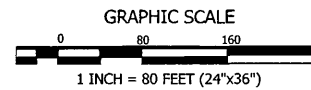
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21 OF 33

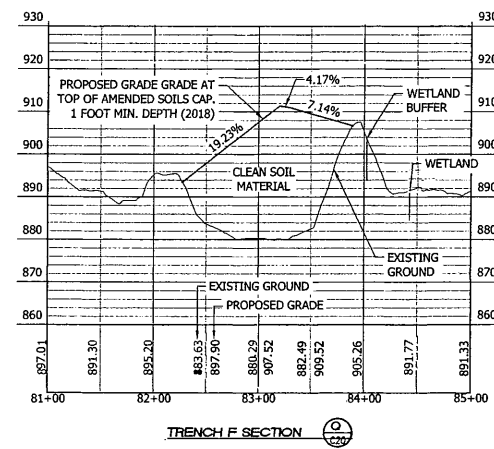
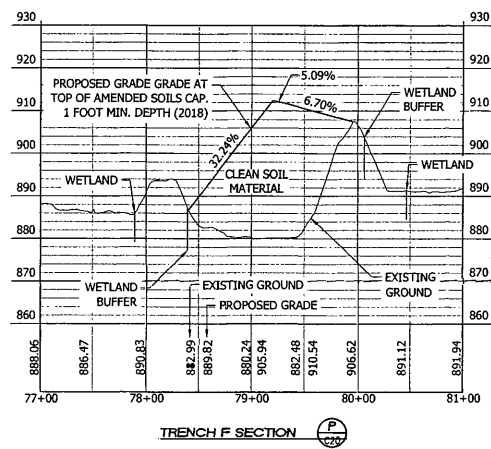
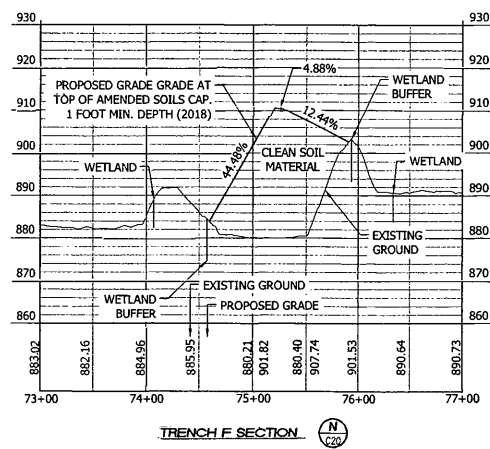
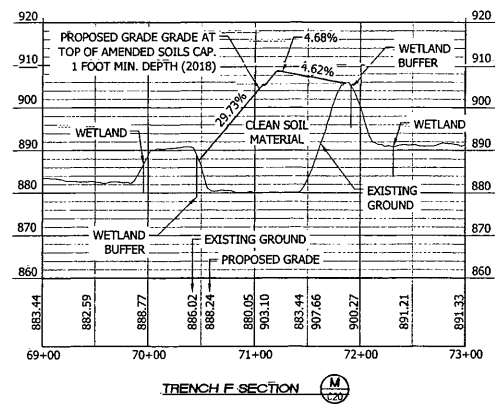
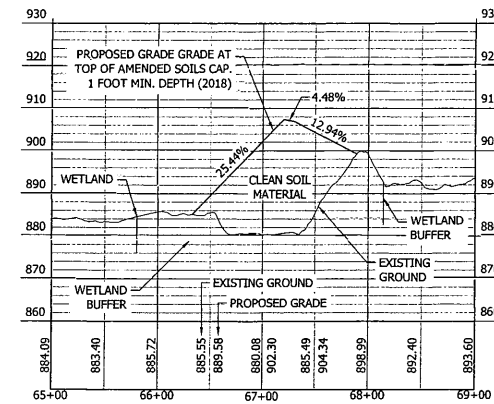
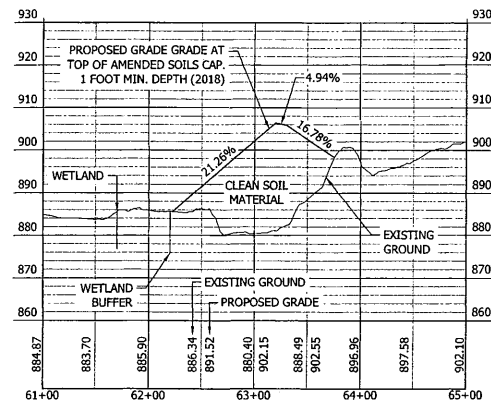
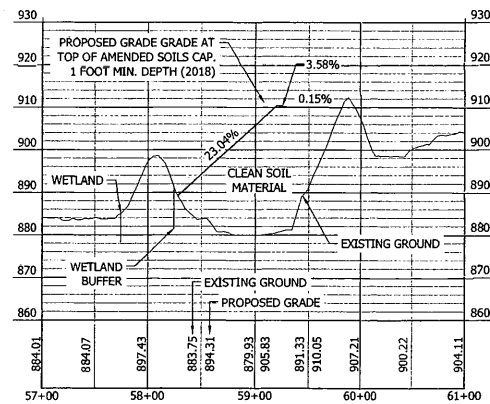
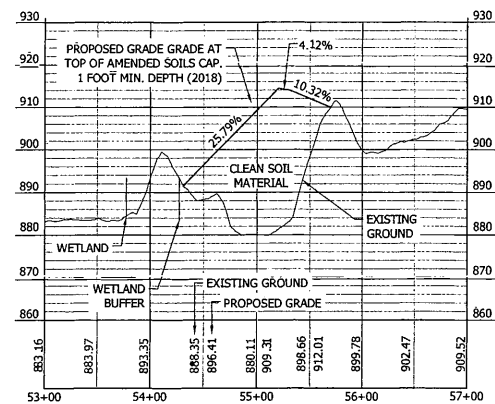


RAVENSDALE TRENCH FILLING
A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
KING COUNTY, WASHINGTON
TRENCH - F

TRENCH F:

SCALE: 1" = 80' HORIZONTAL
1" = 20' VERTICAL

PERMITTED 2011 IMPORT QUANTITY:	46,700 CY±
AS-BUILT IMPORT QUANTITY 2017:	110,226 CY±
PROPOSED ADDITIONAL IMPORT QUANTITY:	99,224 CY±
TOTAL IMPORT QUANTITY (BANK YARDS):	209,450 CY±



REVISION	DESCRIPTION	DATE	BY

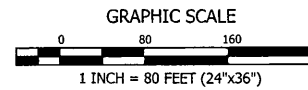
CONTOUR
ENGINEERING • L.L.C.
CIVIL ENGINEERS • SURVEYORS • LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplc.com

BRETT W. ALLEN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

SHEET TITLE: TRACT - F
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: 6E W: M
DATE: 2018-05-08
REVISED:
PROJECT: 09-040
DWG NAME: 09-040-TRENCH-F

SHEET	REV.
C22	
22 OF 33	

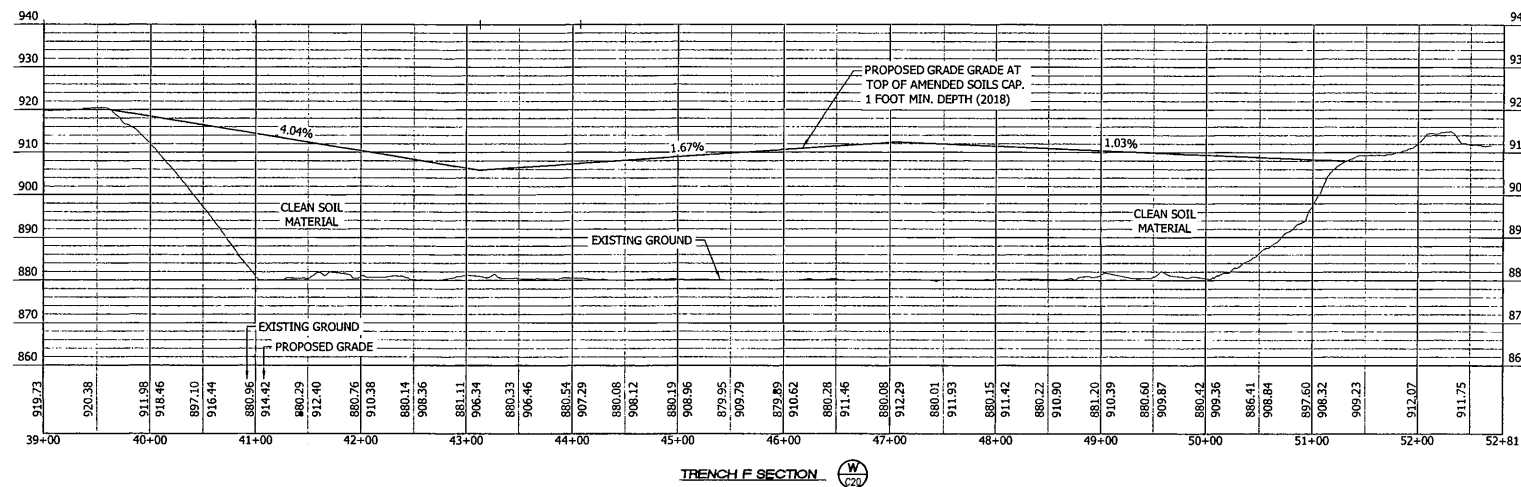
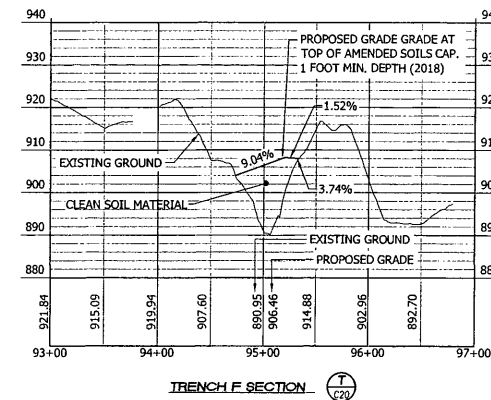
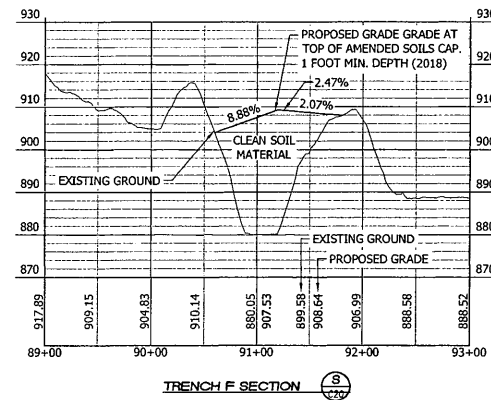
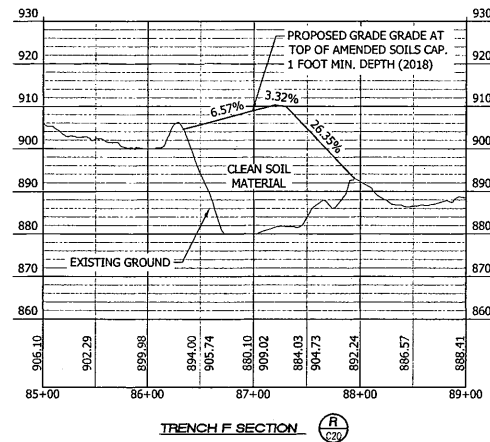


RAVENSDALE TRENCH FILLING
 A PORTION OF THE EAST 1/2 OF SECTION 1, TOWNSHIP 21 NORTH, RANGE 6 EAST W.M.
 KING COUNTY, WASHINGTON
 TRENCH - F

TRENCH F:

SCALE: 1" = 80' HORIZONTAL
 1" = 20' VERTICAL

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AS-BUILT IMPORT QUANTITY 2017:	110,226 CY±
PROPOSED ADDITIONAL IMPORT QUANTITY:	99,224 CY±
TOTAL IMPORT QUANTITY (BANK YARDS):	209,450 CY±



REVISION	DESCRIPTION	DATE	BY

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@contourplc.com

PROFESSIONAL ENGINEER
 BETT M. ALLEN
 STATE OF WASHINGTON
 REGISTERED
 37476

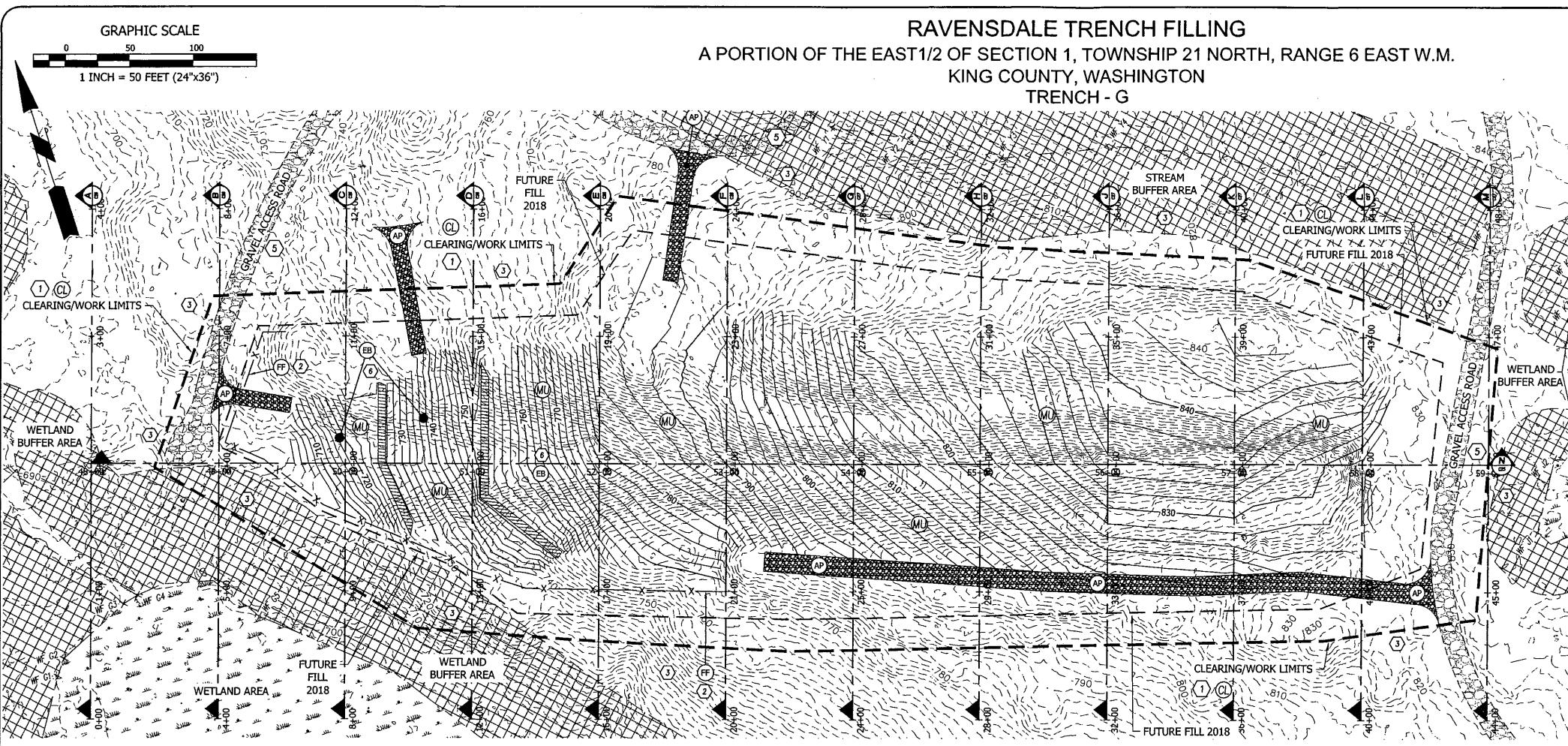
SHEET TITLE: TRACT - F
 RAVENSDALE TRENCH FILLING
 CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328
 CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2018-05-08
 REVISED:

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

SHEET	REV.
C23	
23 OF 33	

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:

- 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 10.
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 ENCRUCH INTO WETLAND BUFFER.
4. ACCESS ROADS SHOW ARE FOR REFERENCE ONLY. LOCATIONS SUBJECT TO BE MODIFIED AS NEEDED FOR FILLING OPERATIONS.

TESC LEGEND:

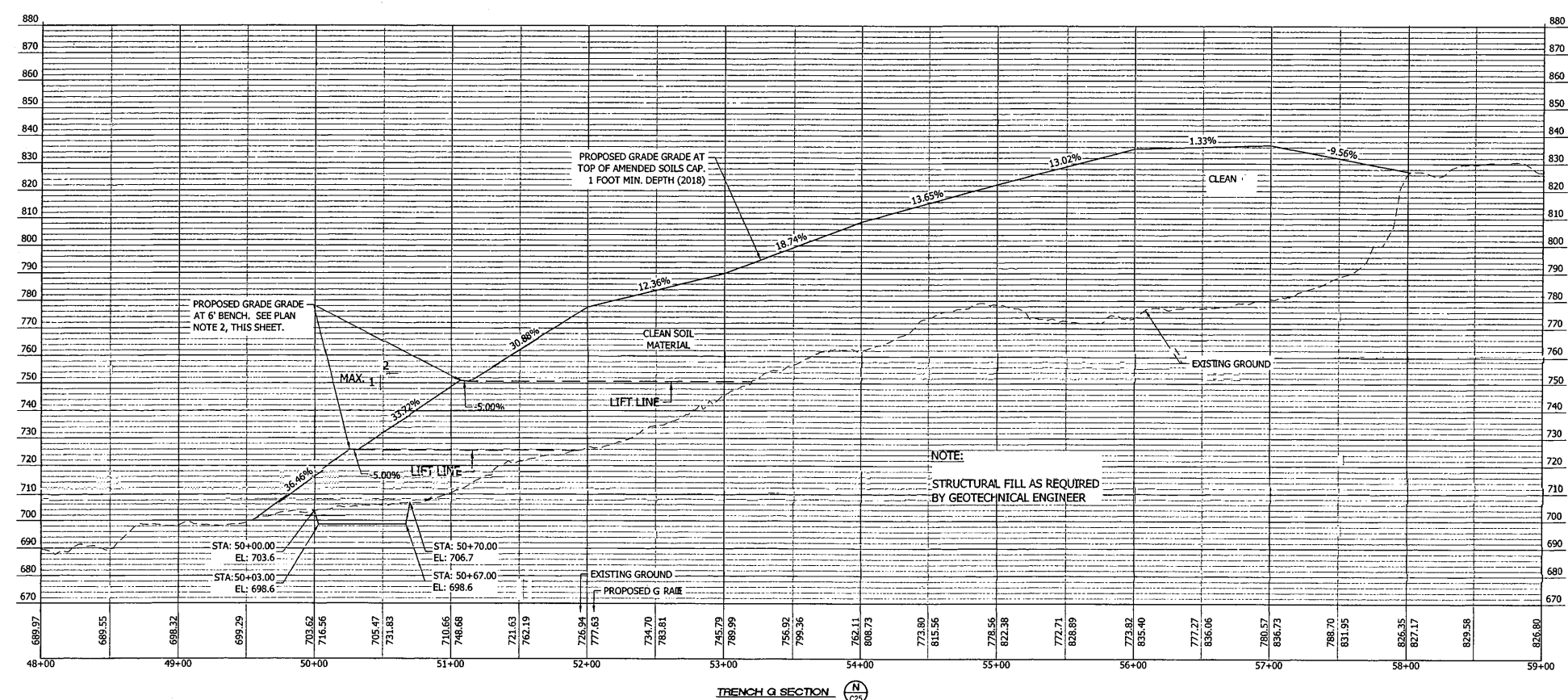
- AP TEMPORARY ACCESS POINT - AFTER COMPLETION OF PROJECT, ROADBED IS TO BE REMOVED - AREA TO BE HYDROSEEDED & REFORESTED PER FOREST PRACTICE REQUIREMENTS
- FF FILTER FABRIC FENCE SEE NOTES AND DETAIL SHEET 4
- DI INTERCEPTOR DITCHES
- MU HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET 3
- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

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

TRENCH G:
 SCALE: 1" = 50' HORIZONTAL
 1" = 25' VERTICAL
 PROPOSED GRADE IMPORT QUANTITY: 107,914 CY±
 (BANK YARDS)

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 GRADE 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 GRADE CONSTRUCTION ACTIVITIES, CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

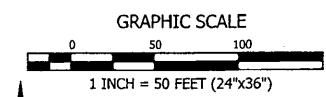
CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG



REVISION	DESCRIPTION	DATE	BY

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

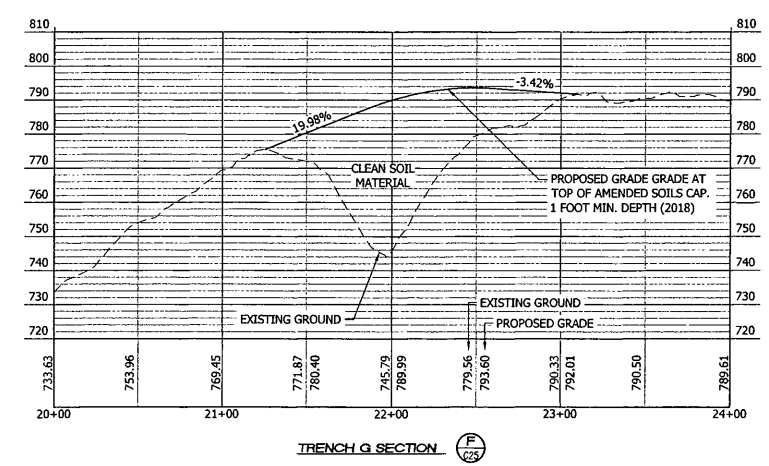
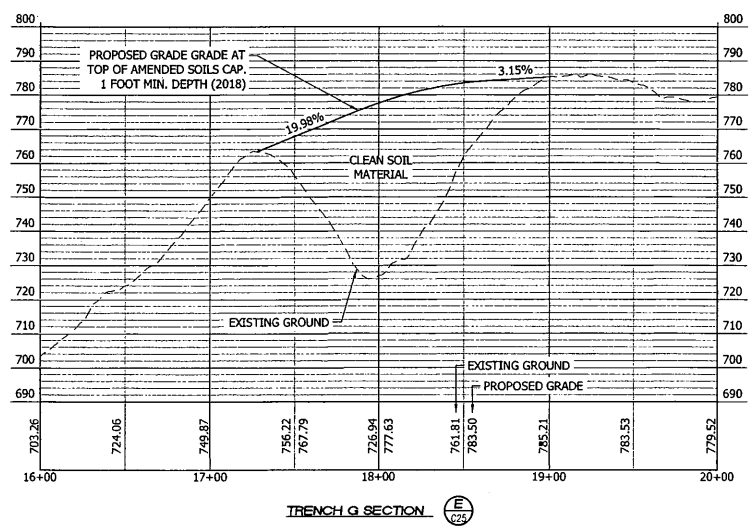
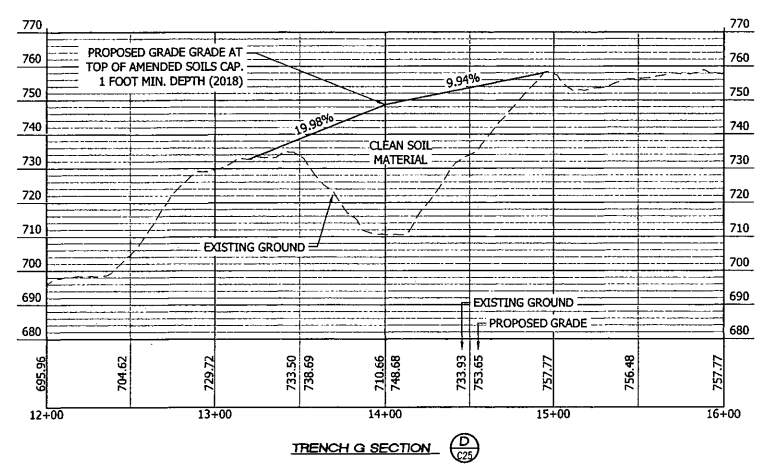
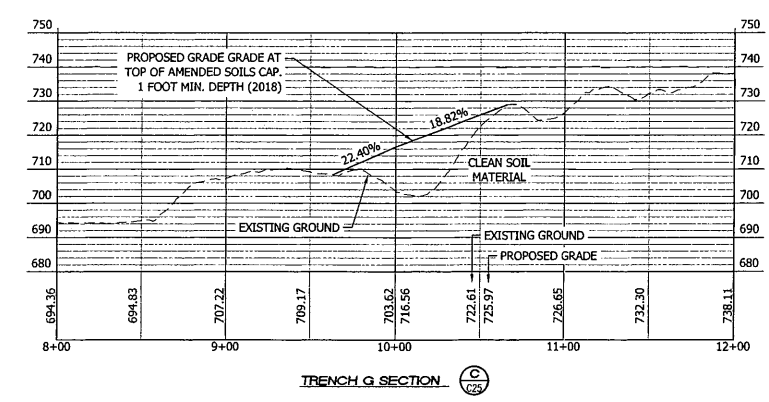
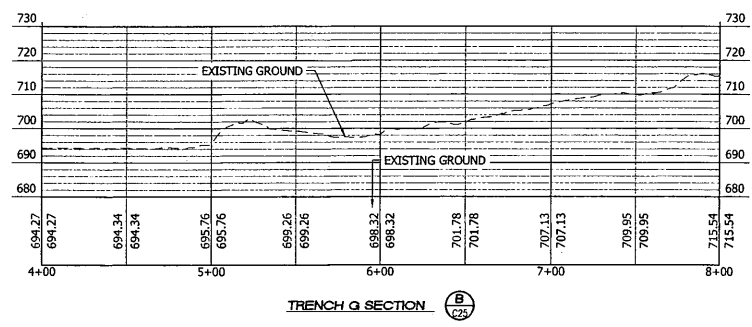
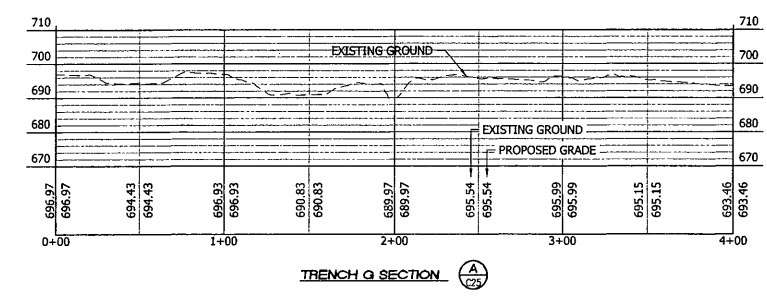
SHEET TITLE: TRACT - G RAVENSDALE TRENCH FILLING CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328 CONTACT: KURT ERICKSON PHONE: (253) 606-6060
DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E WM DATE: 2018-05-08
PROJECT: 09-040 DWG NAME: 09-040-TRENCH-G SHEET C24 24 OF 33



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

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

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



REVISION	DESCRIPTION	DATE	BY

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@contourplc.com



SHEET TITLE: **TRACT - G**

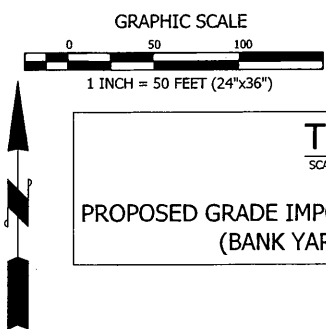
RAVENSDALE TRENCH FILLING
 CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328
 CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2018-05-08
 REVISED:

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

SHEET	REV.
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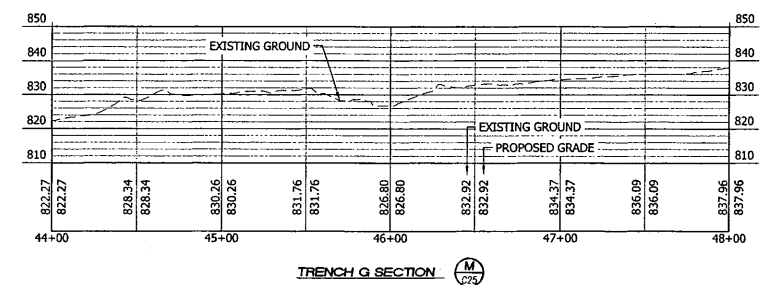
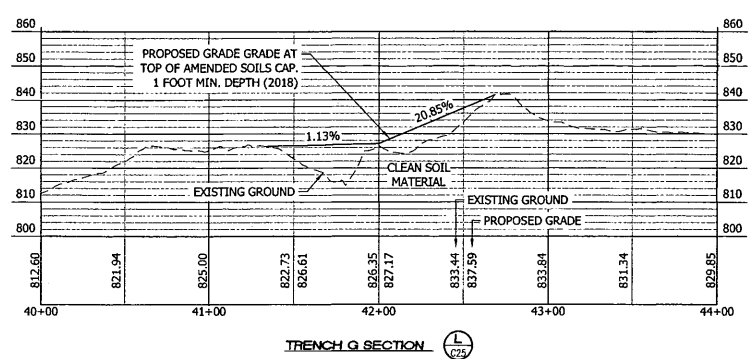
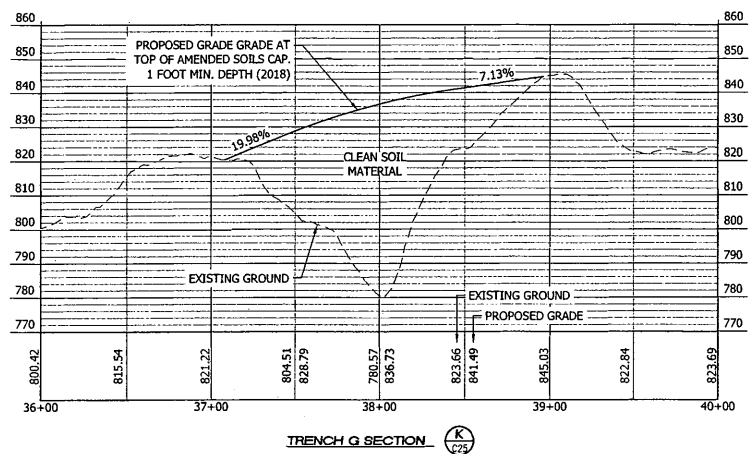
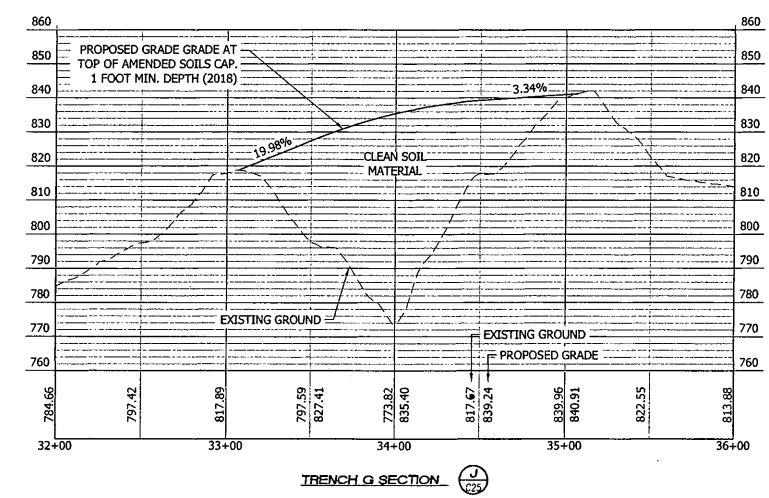
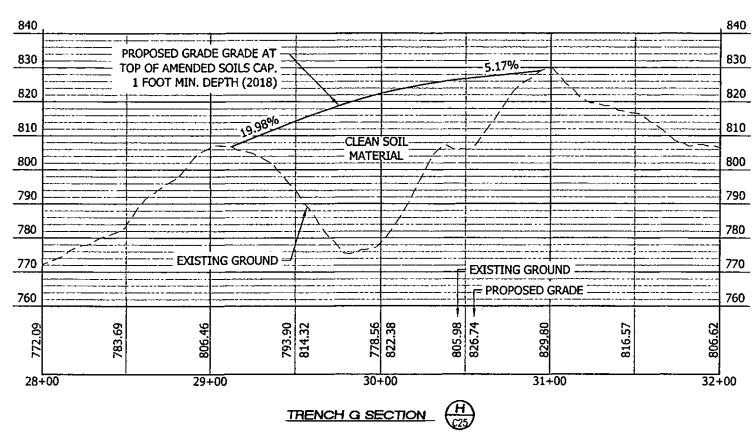
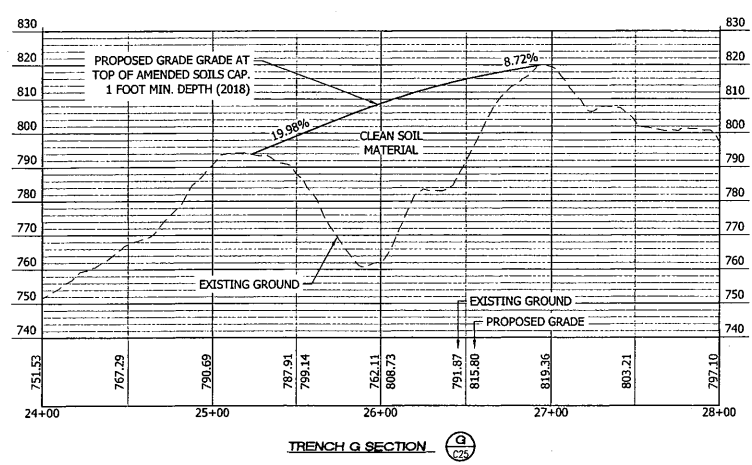
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TRENCH G:
SCALE: 1" = 50' HORIZONTAL
1" = 25' VERTICAL

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

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

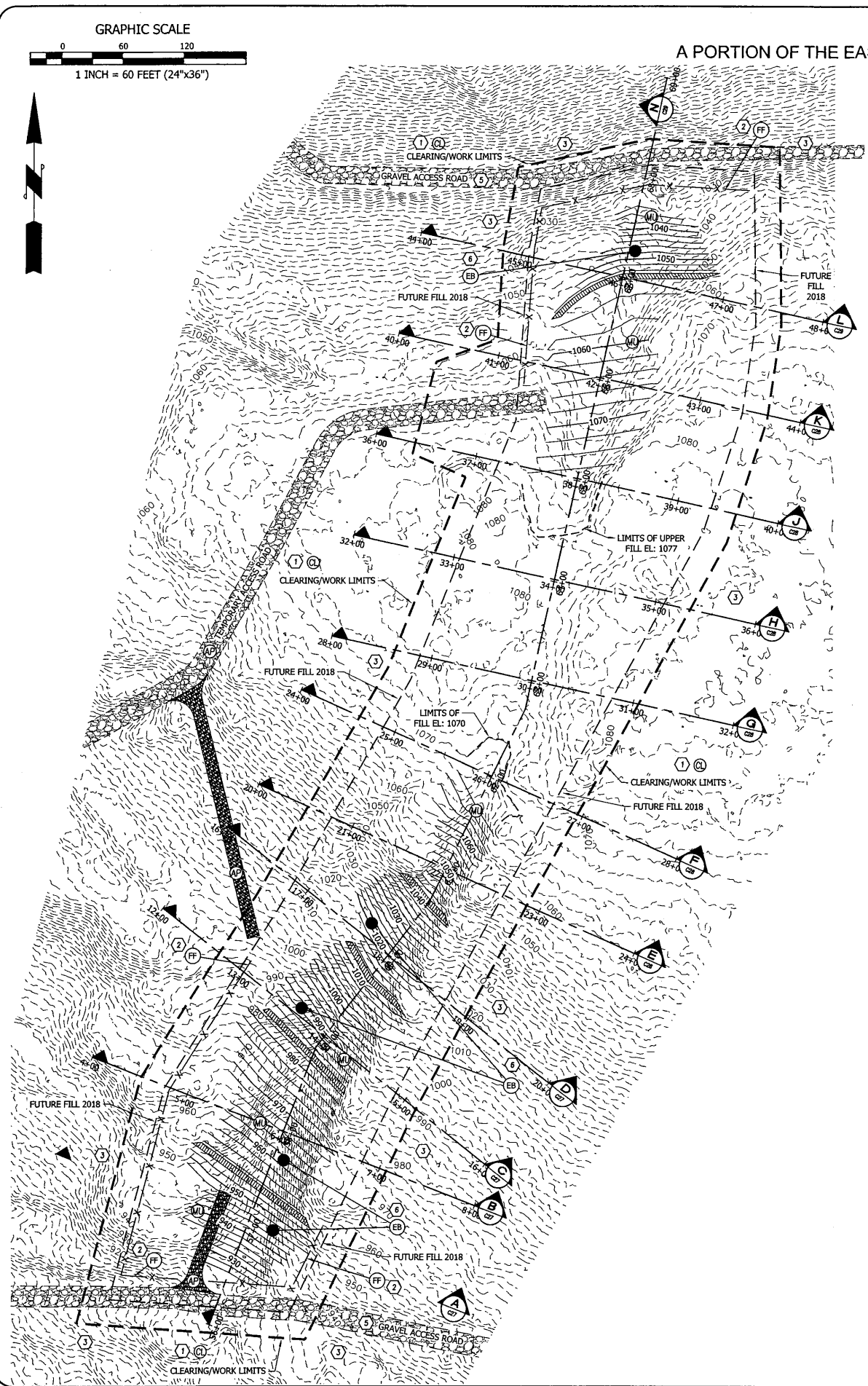


REVISION	DESCRIPTION	DATE	BY

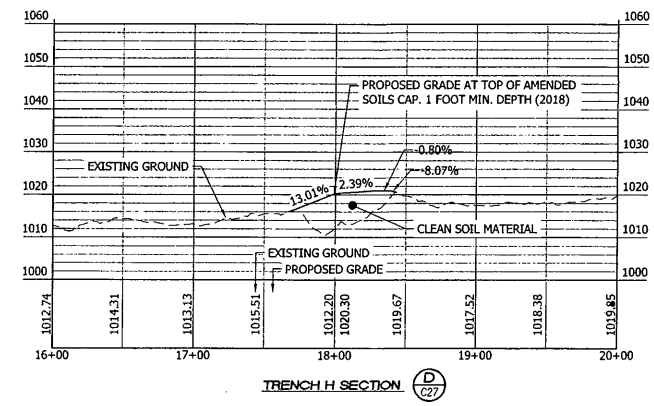
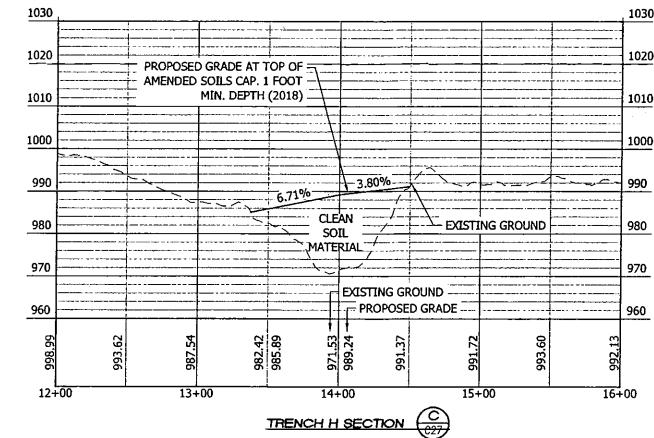
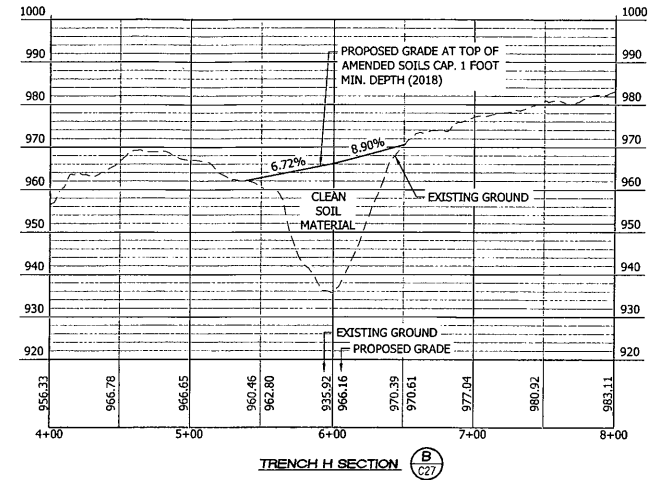
CONTOUR	
ENGINEERING, L.L.C.	CIVIL ENGINEERS-SURVEYORS-LAND PLANNERS
3309 56th Street NW, Suite 106 Gig Harbor, WA 98335	
Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplc.com	

SHEET TITLE: TRACT - G RAVENSDALE TRENCH FILLING CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328 CONTACT: KURT ERIKSON PHONE: (253) 606-6060	
DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E WM DATE: 2018-05-08 REVISED:	PROJECT: 09-040 DWG NAME: 09-040-TRENCH-G SHEET C26 28 OF 33

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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



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.
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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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TESC LEGEND:

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- FF FILTER FABRIC FENCE SEE NOTES AND DETAIL SHEET 4
- DI INTERCEPTOR DITCHES
- ML HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET 3
- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

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

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

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.

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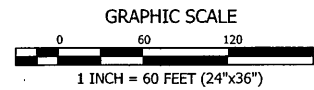
CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

BY									
DATE									
REVISION									
DESCRIPTION									

CONTOUR ENGINEERING, L.L.C.

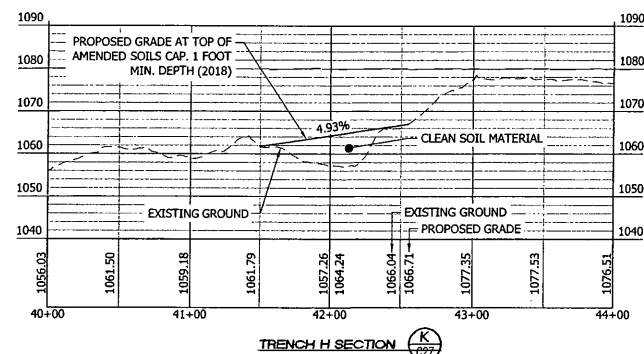
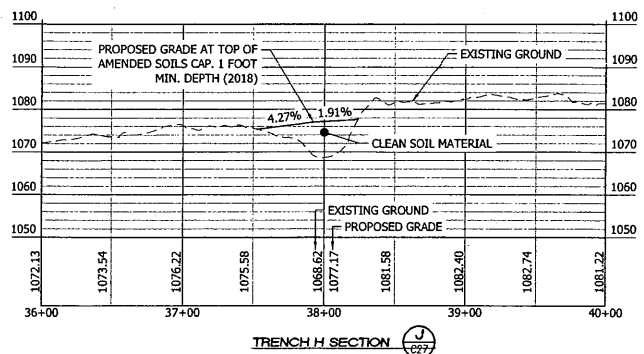
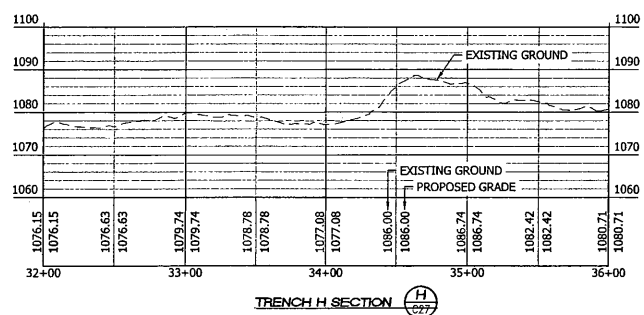
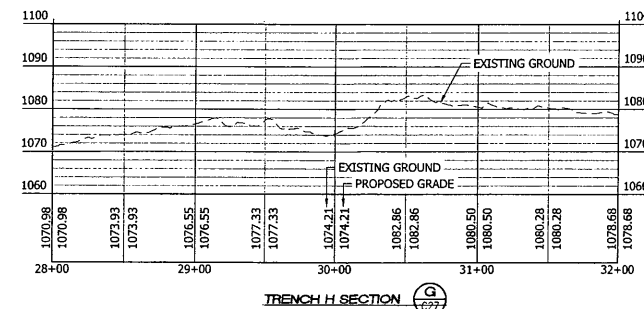
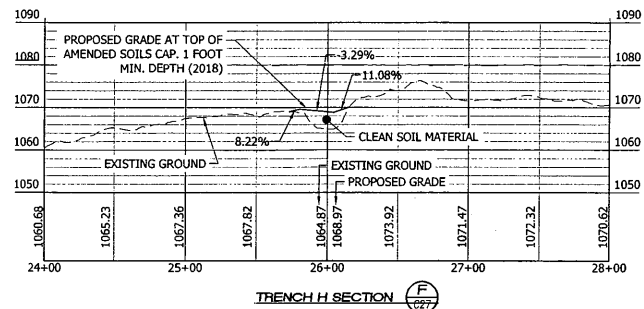
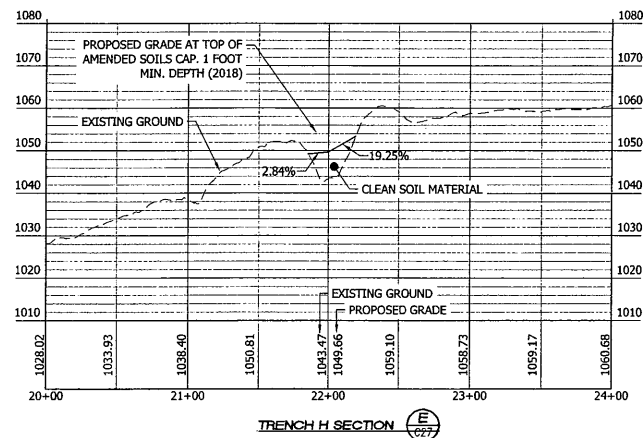
CIVIL ENGINEERS ~ SURVEYORS ~ LAND PLANNERS
 3309 56th Street NW, Suite 106 Gig Harbor, WA 98335
 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourplc.com

SHEET TITLE: TRENCH - H 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: 2018-05-08 REVISED: PROJECT: 09-040 DWG NAME: 09-040-TRENCH-H SHEET C27 27 OF 33
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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

TRENCH H:
 SCALE: 1" = 60' HORIZONTAL
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 PROPOSED IMPORT QUANTITY: 21,196 CY±
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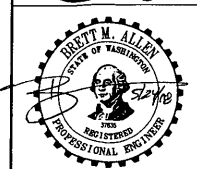


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 3309 56th Street NW, Suite 105 Gig Harbor, WA 98335
 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourllc.com

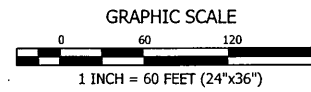


SHEET TITLE: TRACT - H
 RAVENSDALE TRENCH FILLING
 CLIENT: RAVENSDALE LLC
 41306 90TH AVENUE E
 EATONVILLE, WA 98328
 CONTACT: KURT ERICKSON
 PHONE: (253) 606-6060

DESIGNER: J. JACOBY
 ENGINEER: B. ALLEN
 DRAWN: J. JACOBY
 S 1 T 21 N R 6E WM
 DATE: 2018-05-08
 REVISED:
 PROJECT: 09-040
 DWG NAME: 09-040-TRENCH-H

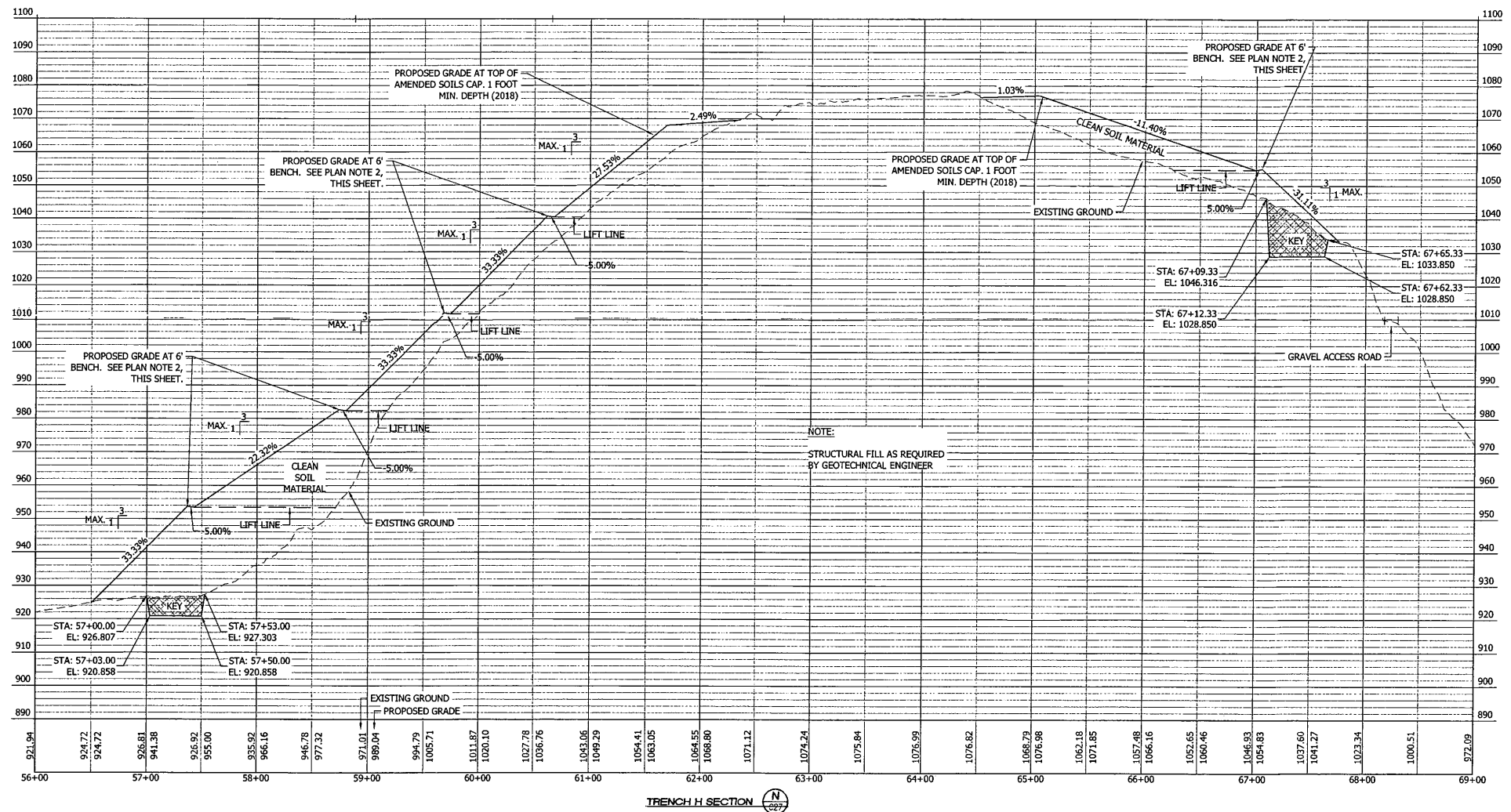
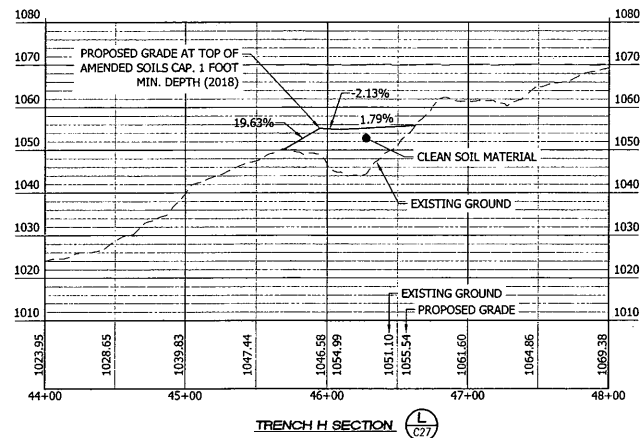
SHEET	REV.
C28	
28 OF 33	

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TRENCH H:
 SCALE: 1" = 60' HORIZONTAL
 1" = 20' VERTICAL
 PROPOSED IMPORT QUANTITY: 21,196 CY±
 (BANK YARDS)

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



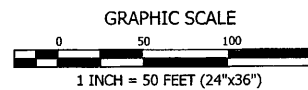
VERIFICATION NOTE
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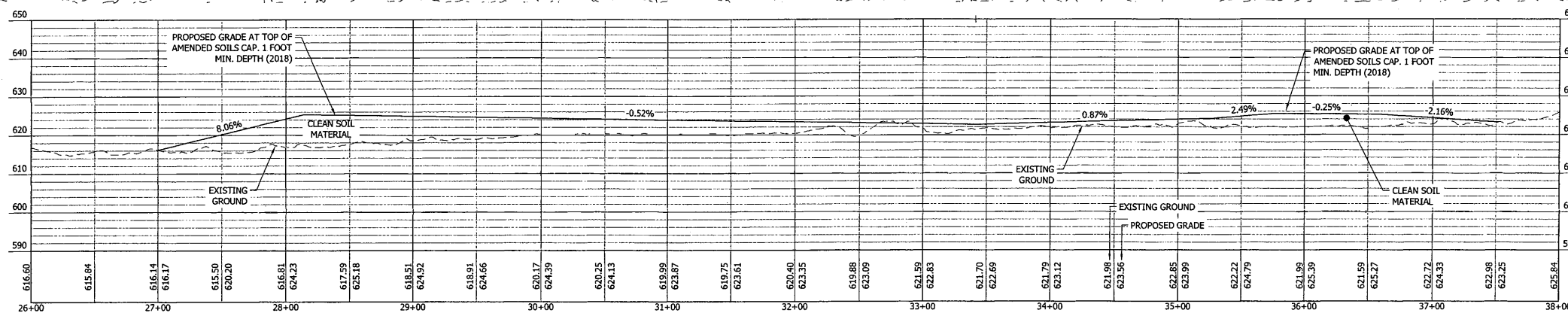
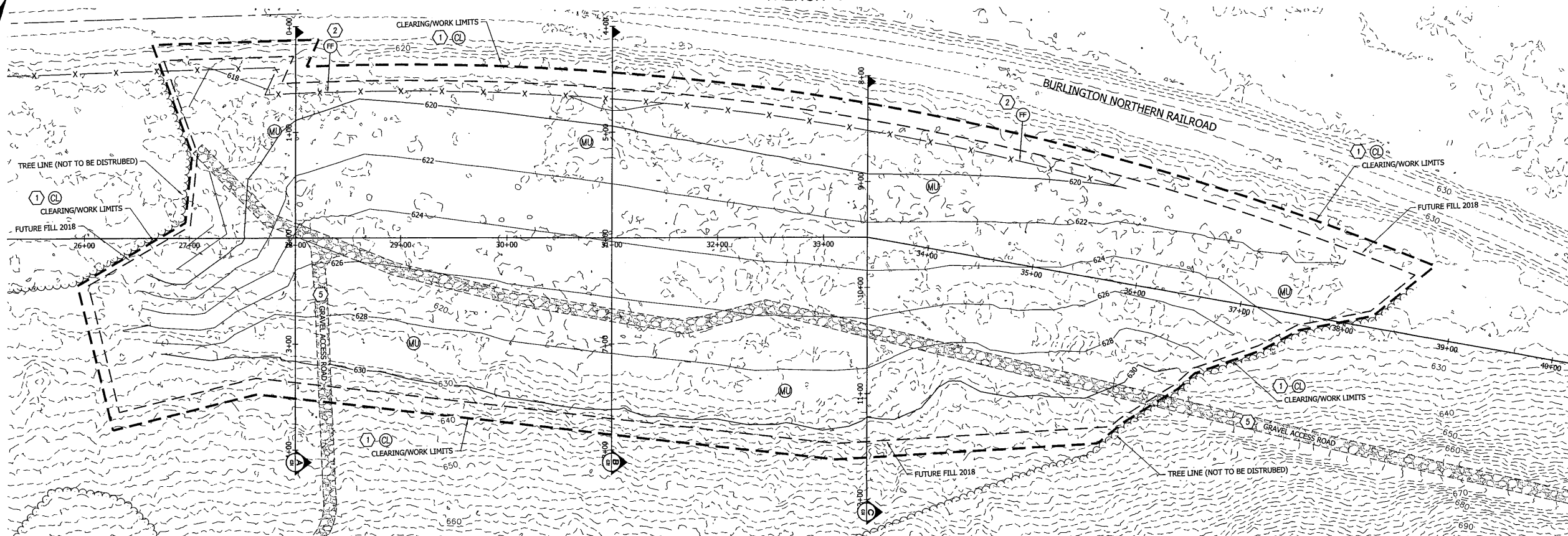
REVISION	DESCRIPTION	DATE	BY

<p>CONTOUR ENGINEERING, L.L.C. CIVIL ENGINEERS-SURVEYORS-LAND PLANNERS 3309 56th Street NW, Suite 105, Gig Harbor, WA 98335 Phone: 253-857-5454 ~ Fax: 253-509-0044 ~ info@contourllc.com</p>	
<p>DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E WM DATE: 2018-05-08 REVISED:</p>	<p>PROJECT: 09-040 DWG NAME: 09-040-TRENCH-H</p>
<p>SHEET C29 29 OF 33</p>	<p>REV. </p>

L:\PROJECT FILES\09-040\DRAWINGS\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



TRENCH I SECTION (D/C30)

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 4
- DI INTERCEPTOR DITCHES
- ML HYDROSEED, FERTILIZER, AND MULCH SEE NOTES SHEET 3
- CL CLEARING/CONSTRUCTION LIMITS
- EB EROSION CONTROL BLANKET

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 10.
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 ENCRACH INTO WETLAND BUFFER.
4. ACCESS ROADS SHOW ARE FOR REFERENCE ONLY. LOCATIONS SUBJECT TO BE MODIFIED AS NEEDED FOR FILLING OPERATIONS.

TRENCH I:
 SCALE: 1" = 50' HORIZONTAL
 1" = 17.5' VERTICAL
PROPOSED IMPORT QUANTITY: 29,042 CY±
 (BANK YARDS)

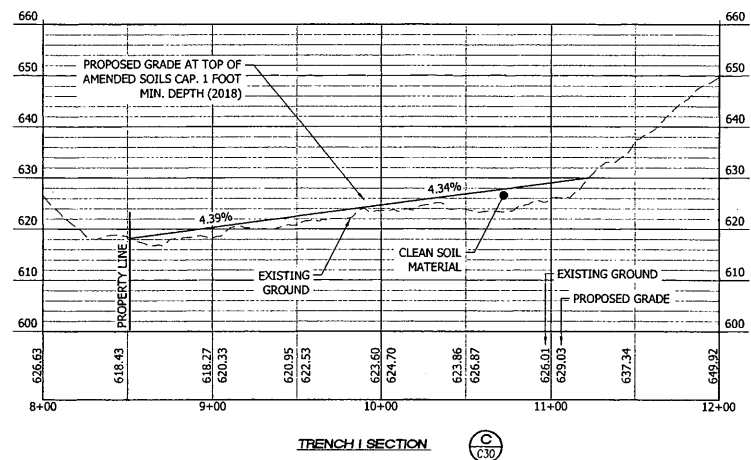
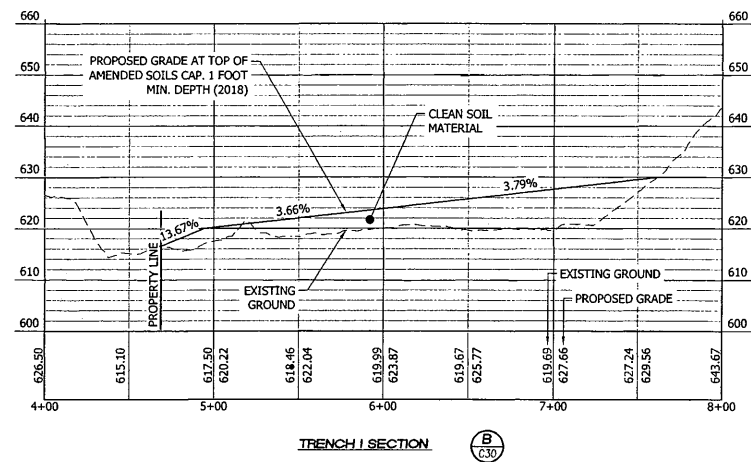
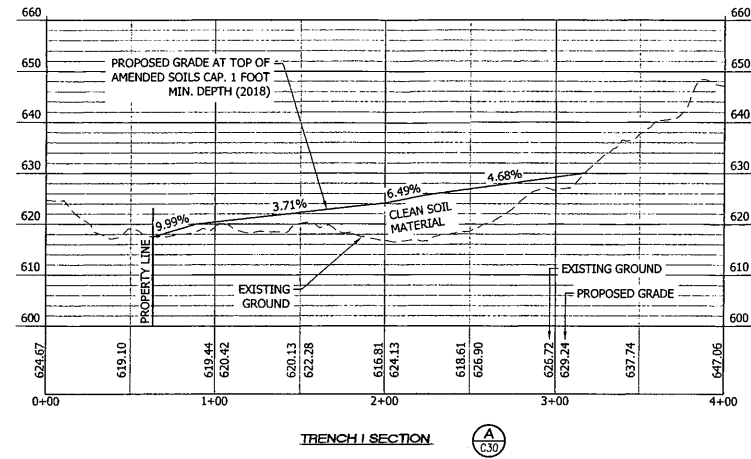
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CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG

DATE	BY	
REVISION	DESCRIPTION	
 CONTOUR ENGINEERS-SURVEYORS-PLANNERS 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		
SHEET TITLE: TRENCH - I	RAVENSDALE TRENCH FILLING	PHONE: (253) 606-6060
	CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328	CONTACT: KURT ERICKSON
DESIGNER: J. JACOBY	ENGINEER: B. ALLEN	
DRAWN: J. JACOBY		
DATE: 2018-05-08		
REVISED:		
PROJECT: 09-040	DWG NAME: 09-040-TRENCH-I	
SHEET	REV.	
C30	△	
30 OF 33		

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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 - I



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 (BANK YARDS)

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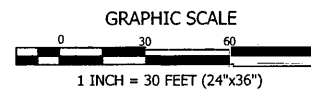
REVISION	DESCRIPTION	DATE	BY

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@contourplc.com			
			SHEET TITLE: TRENCH - I PROJECT: 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: 2018-05-08 REVISED:	PROJECT: 09-040 DWG NAME: 09-040-TRENCH-I	SHEET C31	REV. 31 OF 33

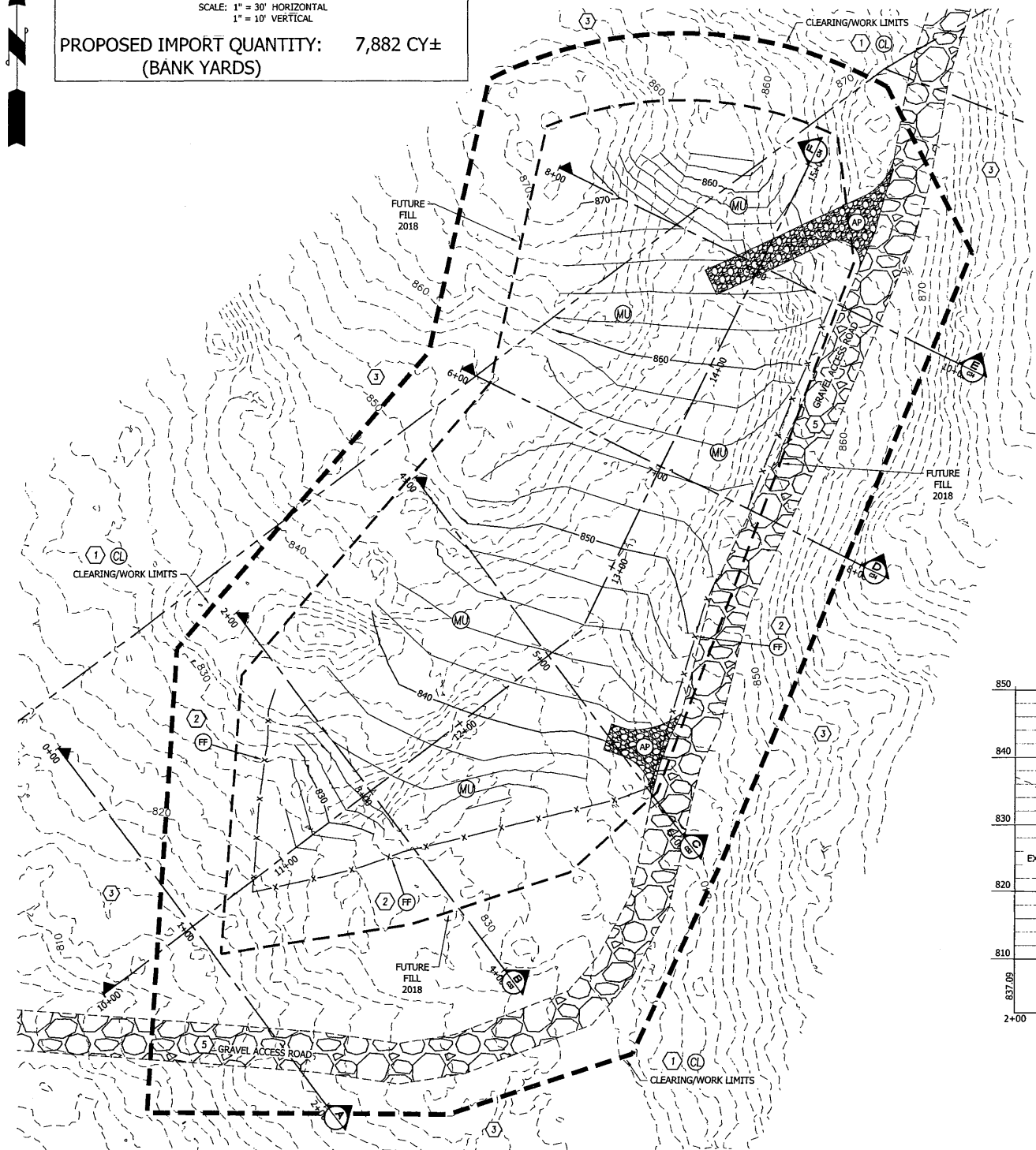
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RAVENSDALE TRENCH FILLING

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)



CONSTRUCTION NOTES:

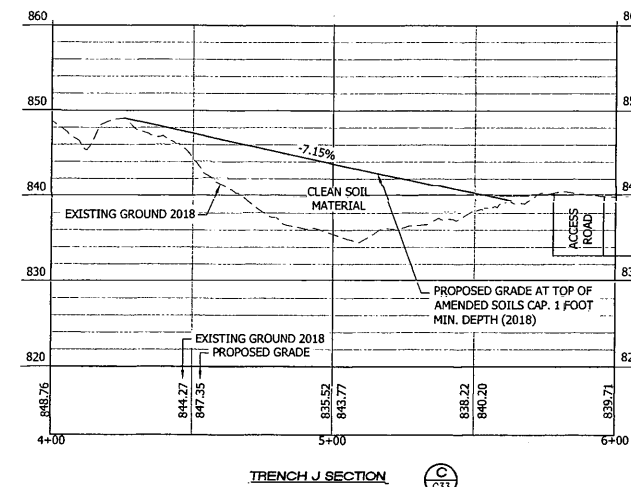
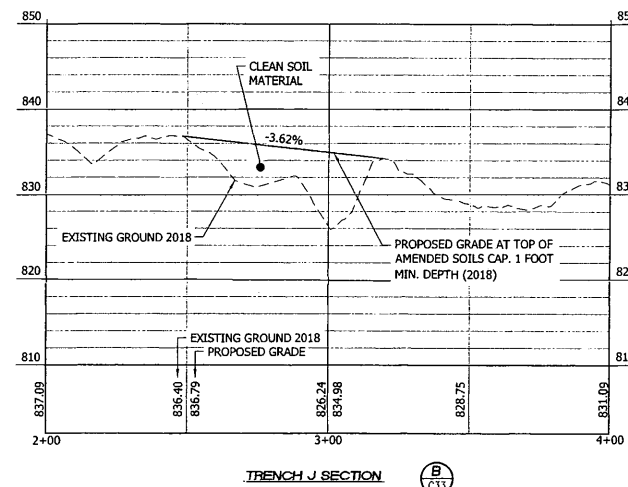
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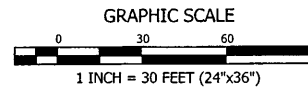
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REVISION	DESCRIPTION	DATE	BY

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@contourllc.com	

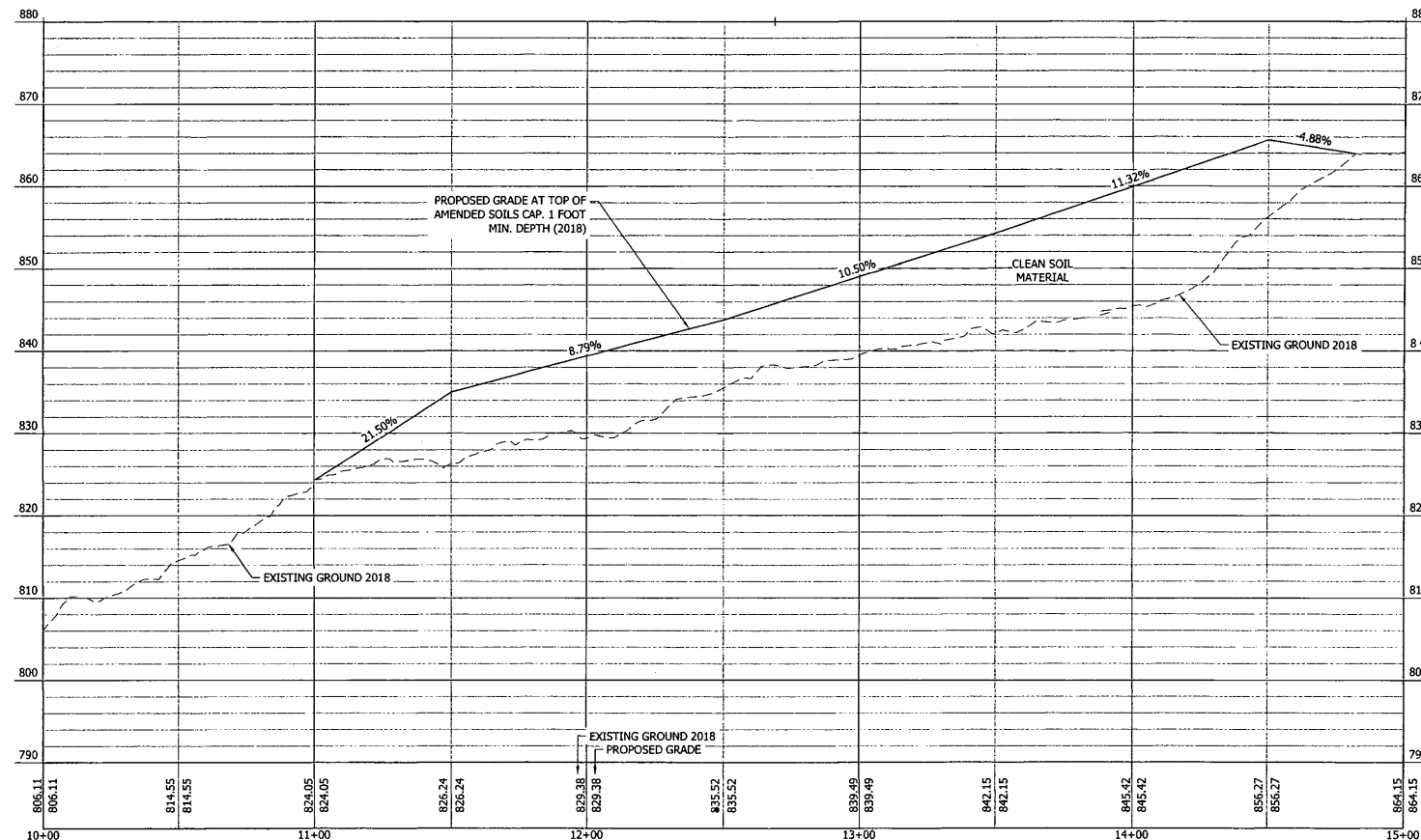
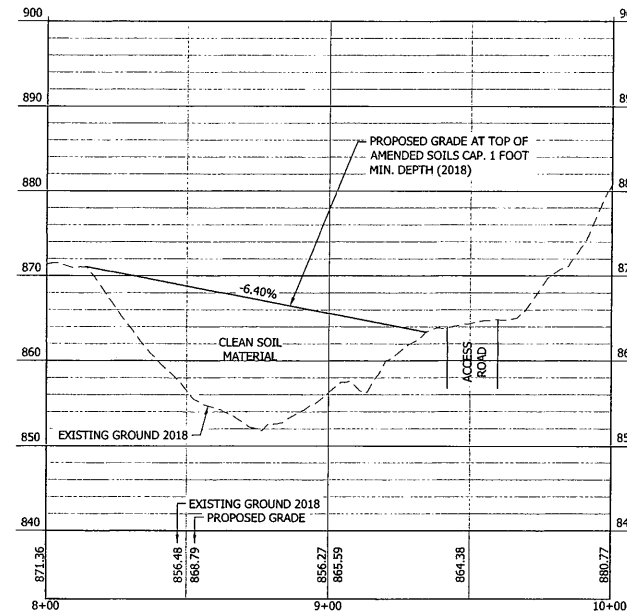
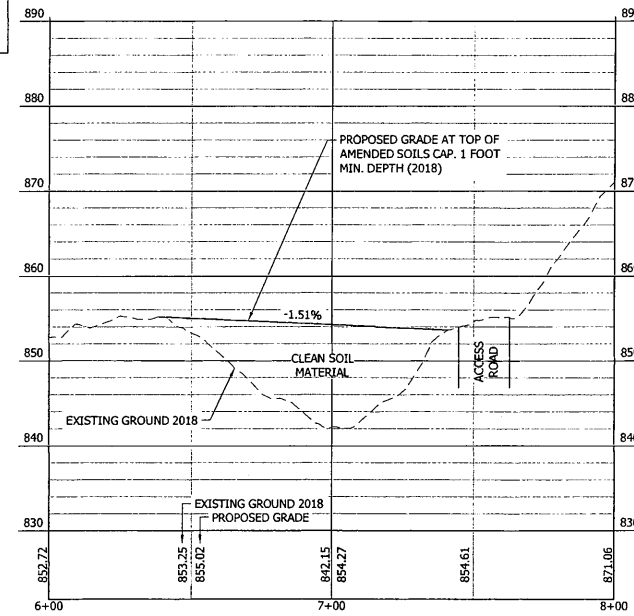
SHEET TITLE: TRENCH - J RAVENSDALE TRENCH FILLING CLIENT: RAVENSDALE LLC 41306 90TH AVENUE E EATONVILLE, WA 98328 CONTACT: KURT ERICKSON PHONE: (253) 606-6060	
DESIGNER: J. JACOBY ENGINEER: B. ALLEN DRAWN: J. JACOBY S 1 T 21 N R 6E W M DATE: 2018-05-08 REVISED:	PROJECT: 09-040 DWG NAME: 09-040-TRENCH-J SHEET: C32 REV:

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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

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EATONVILLE, WA 98328	

DESIGNER: J. JACOBY	ENGINEER: B. ALLEN
DRAWN: J. JACOBY	
DATE: 2018-05-08	
REVISION:	
PROJECT: 09-040	DWG NAME: 09-040-TRENCH-J
SHEET	REV.
C33	
33 OF 33	

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