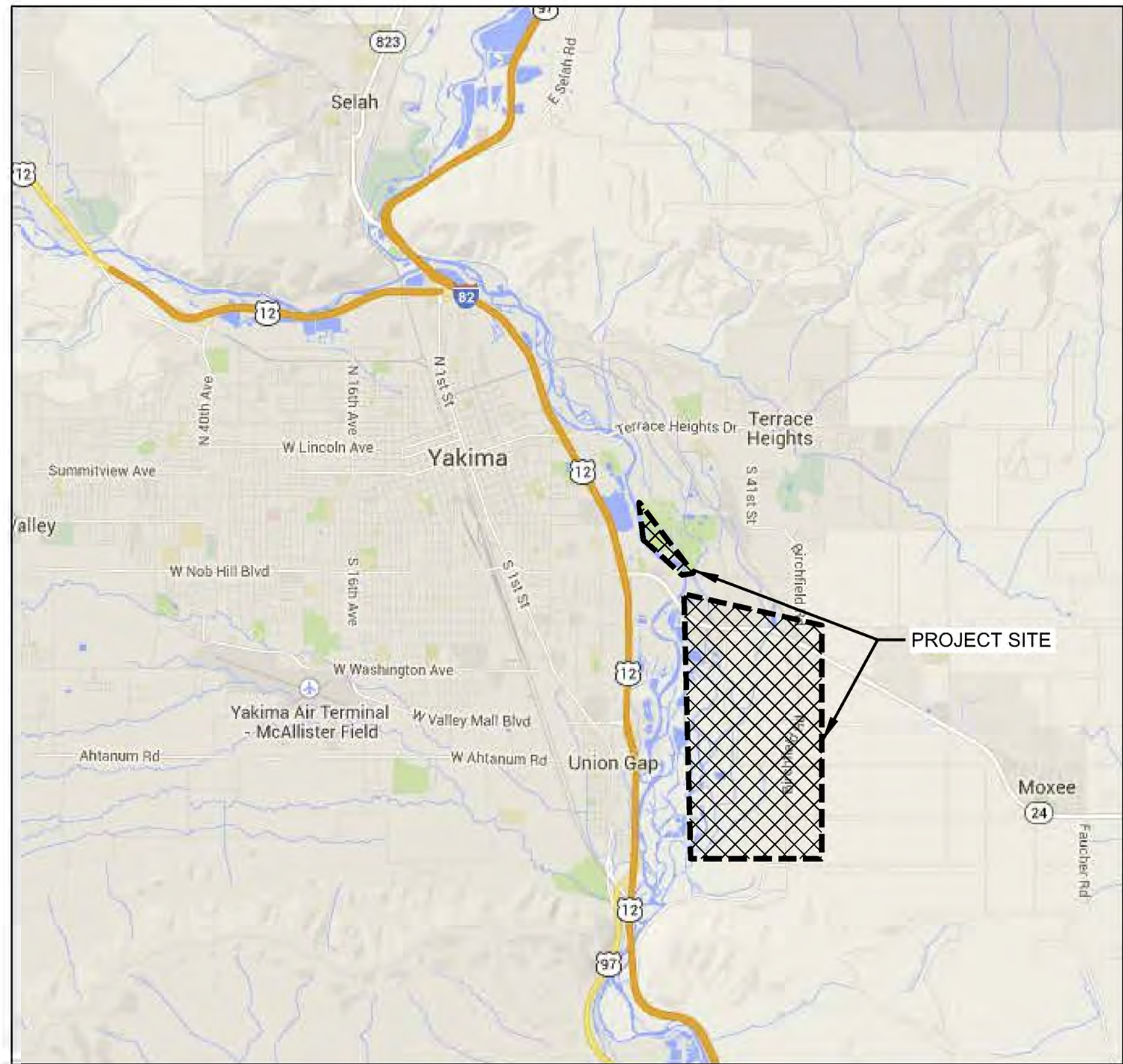


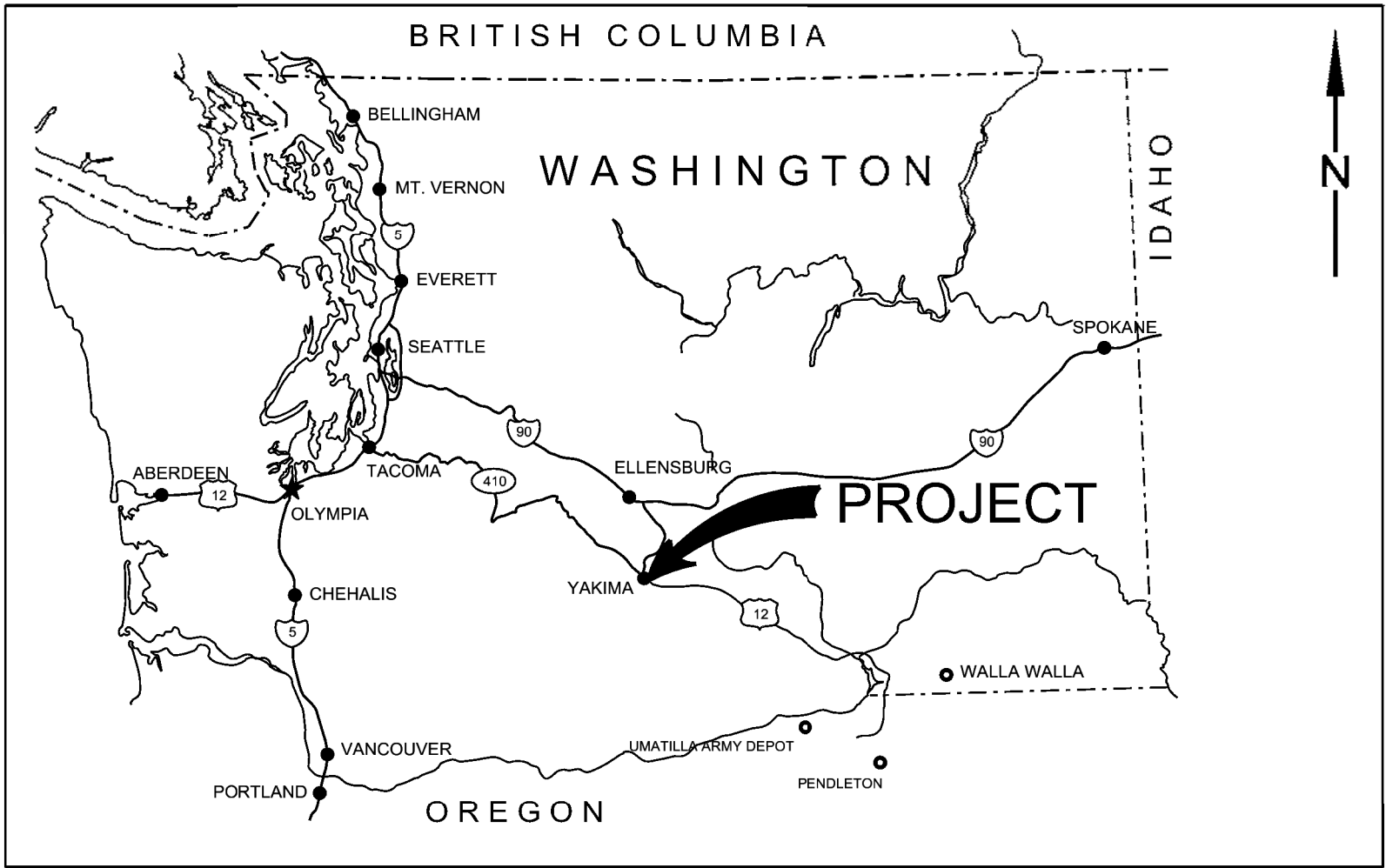
US Army Corps
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Seattle District

YAKIMA RIVER GAP TO GAP SECTION 1135 ECOSYSTEM RESTORATION

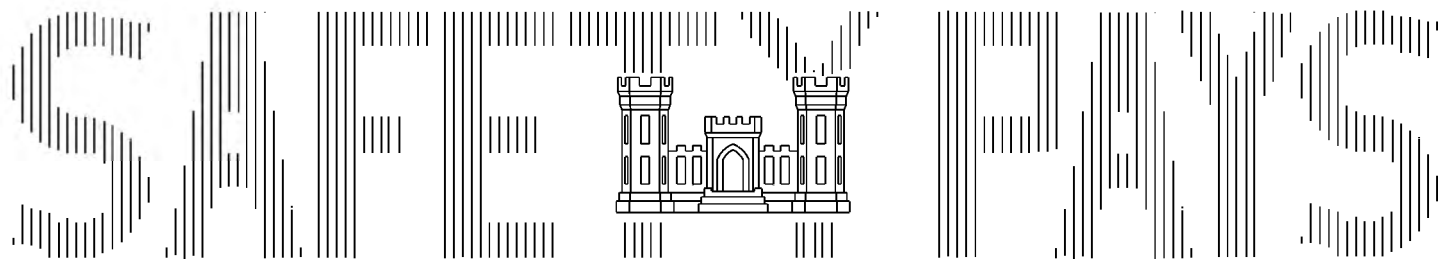
YAKIMA, WASHINGTON



PROJECT LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



US Army Corps
of Engineers®
Seattle District

Date:	31 MAY 2022
File No.:	D-8-4-109
Solicitation No.:	-

Recommended by:	GUY L. GREEN, P.E.	05/31/22	Date
Chief, Design Branch			
Approved by:	JOANN T. WALLS, P.E.	05/31/22	Date
Chief, Engineering Div.			

Submitted by:	STEPHANIE A. MCKENNA	05/31/22	Date
Project Manager			
Reviewed by:	GLENN K. KATO	05/31/22	Date
Civil DQC Reviewer			

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	05/31/22	Date
Prepared by:	JENNIFER L. WEST	
Chief, Civil Section		

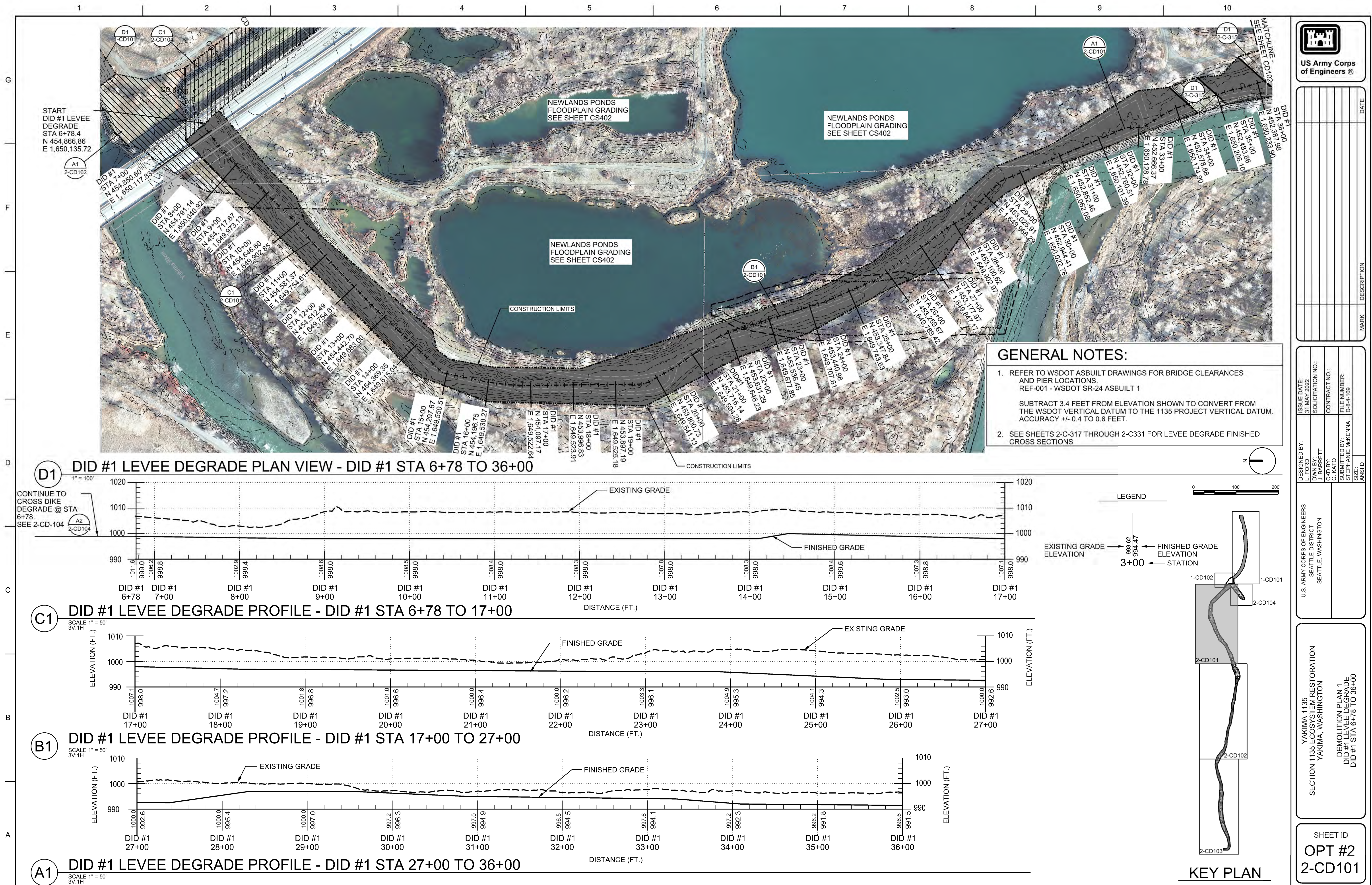
YAK1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WA	TITLE, LOCATION, AND VICINITY MAPS
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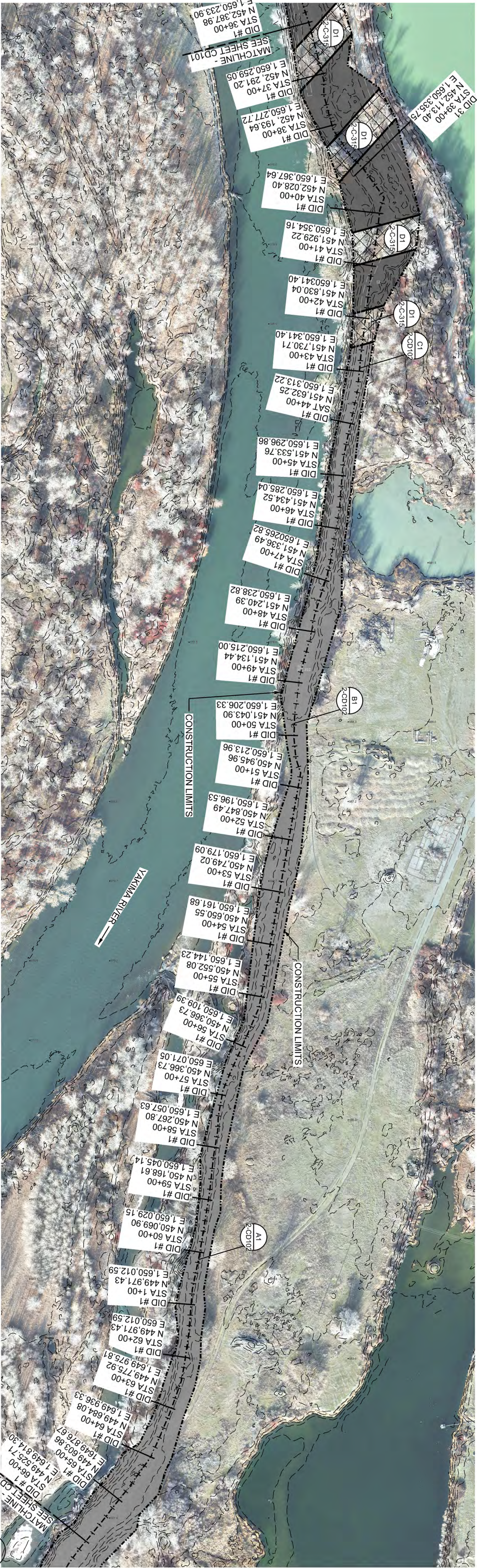
SHEET IDENTIFICATION B-G-001

DRAWING NO.		DRAWING TITLE		DRAWING INDEX		DRAWING NO.		DRAWING TITLE	
CONTRACT OPTION #2 INDEX									
B-G-001	TITLE, LOCATION AND VICINITY MAPS					2-C-312	SECTION 12 - NEWLANDS PONDS GRADING 1 - TYPICAL SECTIONS		
B-G-002	DRAWING INDEX 1					2-C-313	SECTION 13 - NEWLANDS PONDS GRADING 2 - TYPICAL SECTIONS		
B-G-003	DRAWING 2					2-C-314	SECTION 14 - SR 24 GRADE CONTROL SILL - TYPICAL SECTIONS		
2-C-001	GENERAL SITE PLAN - CONTRACT OPTION #2					2-C-315	SECTION 15 - DID #1 LEVEE DEGRADE - NOTCH SECTIONS		
2-CD101	DEMOLITION PLAN 1 - DID #1 LEVEE DEGRADE - STA DID#1 6+78 TO 36+00					2-C-316	SECTION 16 - ARTICULATED MAT ARMORING - TYPICAL SECTIONS		
2-CD102	DEMOLITION PLAN 2 - DID #1 LEVEE DEGRADE - STA DID #1 36+00 TO 66+00					2-C-317	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 1		
2-CD103	DEMOLITION PLAN 3 - DID #1 LEVEE DEGRADE - STA DID #1 66+00 TO 97+00					2-C-318	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 2		
2-CD104	DEMOLITION PLAN 5 - CROSS DIKE DEGRADE - STA CD 0+00 TO 6+78					2-C-319	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 3		
2-CS100	BLUE SLOUGH LEVEE - GENERAL SITE PLAN					2-C-320	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 4		
2-CS101	BLUE SLOUGH LEVEE BACKWATER EXTENSION - GENERAL SITE PLAN					2-C-321	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 5		
2-CS102	BLUE SLOUGH LEVEE SITE PLAN 1 - STA SB 0+00 TO 5+00					2-C-322	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 6		
2-CS103	BLUE SLOUGH LEVEE SITE PLAN 2 - STA SB 5+00 TO 10+00					2-C-323	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 7		
2-CS104	BLUE SLOUGH LEVEE SITE PLAN 3 - STA SB 10+00 TO 15+00					2-C-324	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 8		
2-CS105	BLUE SLOUGH LEVEE SITE PLAN 4 - STA SB 15+00 TO 20+00					2-C-325	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 9		
2-CS106	BLUE SLOUGH LEVEE SITE PLAN 5 - STA SB 20+00 TO 25+00					2-C-326	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 10		
2-CS107	BLUE SLOUGH LEVEE SITE PLAN 6 - STA SB 25+00 TO 30+00					2-C-327	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 11		
2-CS108	BLUE SLOUGH LEVEE SITE PLAN 7 - STA SB 30+00 TO 35+00					2-C-328	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 12		
2-CS109	BLUE SLOUGH LEVEE SITE PLAN 8 - STA SB 35+00 TO 40+00					2-C-329	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 13		
2-CS110	BLUE SLOUGH LEVEE SITE PLAN 9 - STA SB 40+00 TO 45+00					2-C-330	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 14		
2-CS111	BLUE SLOUGH LEVEE SITE PLAN 10 - STA SB 45+00 TO 50+00					2-C-331	DID #1 LEVEE DEGRADATION - CROSS SECTIONS 15		
2-CS112	BLUE SLOUGH LEVEE SITE PLAN 11 - STA SB 50+00 TO 55+00					2-C-332	CROSS DIKE LEVEE DEGRADATION - CROSS SECTIONS 1		
2-CS113	BLUE SLOUGH LEVEE SITE PLAN 12 - STA SB 55+00 TO 60+00					2-C-333	CROSS DIKE LEVEE DEGRADATION - CROSS SECTIONS 2		
2-CS114	BLUE SLOUGH LEVEE SITE PLAN 13 - STA SB 60+00 TO 65+00					2-C-334	BLUE SLOUGH LEVEE - CROSS SECTIONS 1		
2-CS115	BLUE SLOUGH LEVEE SITE PLAN 14 - STA SB 65+00 TO 70+00					2-C-335	BLUE SLOUGH LEVEE - CROSS SECTIONS 2		
2-CS116	BLUE SLOUGH LEVEE SITE PLAN 15 - STA SB 70+00 TO 75+00					2-C-336	BLUE SLOUGH LEVEE - CROSS SECTIONS 3		
2-CS117	BLUE SLOUGH LEVEE SITE PLAN 16 - STA SB 75+00 TO 78+35					2-C-337	BLUE SLOUGH LEVEE - CROSS SECTIONS 4		
2-CS118	BLUE SLOUGH LEVEE BACKWATER EXTENSION SITE PLAN 1 - STA BE 0+00 TO 7+00					2-C-338	BLUE SLOUGH LEVEE - CROSS SECTIONS 5		
2-CS119	BLUE SLOUGH LEVEE BACKWATER EXTENSION SITE PLAN 2 - STA BE 7+00 TO 13+47					2-C-339	BLUE SLOUGH LEVEE - CROSS SECTIONS 6		
2-CS120	NEWLANDS PONDS FLOODPLAIN GRADING - SITE PLAN					2-C-340	BLUE SLOUGH LEVEE - CROSS SECTIONS 7		
2-CS121	NEWLANDS PONDS FLOODPLAIN GRADING - FILL SITES #2, 3 AND 7					2-C-341	BLUE SLOUGH LEVEE - CROSS SECTIONS 8		
2-CS122	NEWLANDS PONDS FLOODPLAIN GRADING - CUT SITES #1, 2 AND 3					2-C-342	BLUE SLOUGH LEVEE - CROSS SECTIONS 9		
2-CS123	NEWLANDS PONDS FLOODPLAIN GRADING - CUT SITES #4, 5, 6 AND 7					2-C-343	BLUE SLOUGH BACKWATER EXTENSION - CROSS SECTIONS 1		
2-CS124	NEWLANDS PONDS FLOODPLAIN GRADING - CUT SITES #8, 9 AND 10					2-C-344	BLUE SLOUGH BACKWATER EXTENSION - CROSS SECTIONS 2		
2-CS125	NEWLANDS PONDS FLOODPLAIN GRADING - CUT SITES #11, 12 AND 15					2-C-501	DETAILS 1 - ACCESS CONTROL GATE		
2-CS126	NEWLANDS PONDS FLOODPLAIN GRADING - CUT SITES #13 AND 14					REF-001	WSDOT SR-24 ASBUILT 1		
2-CS127	SR 24 GRADE CONTROL SILL - EXISTING SITE PLAN					REF-002	2012 YAKIMA AUTHORIZED - SPORTSMAN PARK SETBACK FINAL DESIGN		
2-CS128	SR 24 GRADE CONTROL SILL - GENERAL SITE PLAN								
2-CS129	SR 24 GRADE CONTROL SILL - AREA 1 SITE PLAN								
2-CS130	SR 24 GRADE CONTROL SILL - AREA 2 SITE PLAN								
2-CS131	SR 24 GRADE CONTROL SILL - AREA 3 SIDE CHANNEL SITE PLAN								
2-CS132	SR 24 GRADE CONTROL SILL - AREA 4 SITE PLAN								
2-CSU101	GENERAL SITE UTILITIES PLAN 1 - BLUE SLOUGH LEVEE - UN-NAMED ROAD								
2-CSU102	GENERAL SITE UTILITIES PLAN 2 - BLUE SLOUGH LEVEE - LESTER LANE								
2-CSU103	GENERAL SITE UTILITIES PLAN 3 - BLUE SLOUGH LEVEE - PAVLICK ALLEY								
2-CSU104	GENERAL SITE UTILITIES PLAN 5 - BLUE SLOUGH LEVEE - CHANNELS 10 & 11								
2-C-301	SECTION 1 - BLUE SLOUGH ARMOR AND TYPICAL SECTIONS								
2-C-302	SECTION 2 - BLUE SOUGH LEVEE RAMP 1								
2-C-303	SECTION 3 - BLUE SOUGH LEVEE RAMP 1A								
2-C-304	SECTION 4 - BLUE SOUGH LEVEE RAMP 2								
2-C-305	SECTION 5 - BLUE SOUGH LEVEE RAMP 3								
2-C-306	SECTION 6 - BLUE SOUGH LEVEE RAMP 4								
2-C-307	SECTION 7 - BLUE SOUGH LEVEE RAMP 5								
2-C-308	SECTION 8 - BLUE SOUGH LEVEE RAMP 6								
2-C-309	SECTION 9 - BLUE SOUGH LEVEE RAMP 7 AND 8								
2-C-310	SECTION 10 - BLUE SOUGH LEVEE - TURNAROUND 1								
2-C-311	SECTION 11 - BLUE SOUGH LEVEE - TURNAROUND 2								

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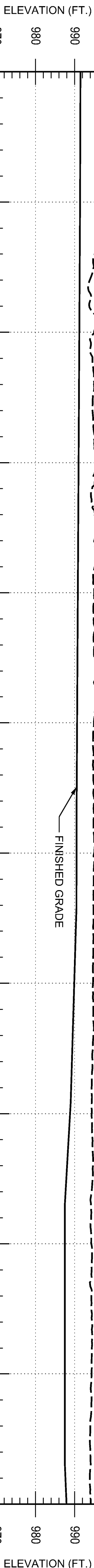




D1 DID #1 LEVEE DEGRADE PLAN VIEW - DID #1 STA 6+78 TO 17+00

D1

1" = 100'

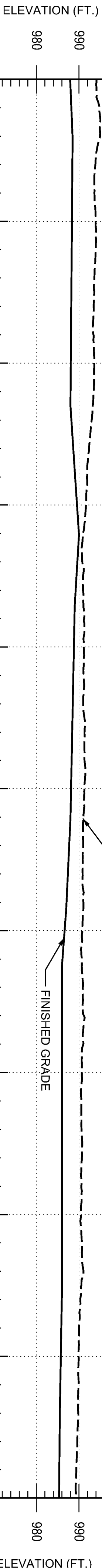


C1 DID #1 LEVEE DEGRADE PROFILE - DID #1 STA 36+00 TO 47+00

C1

SCALE T' = 50'

1V/1H

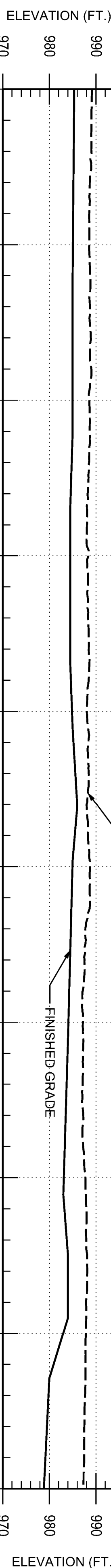


B1 DID #1 LEVEE DEGRADE PROFILE - DID #1 STA 47+00 TO 57+00

B1

SCALE T' = 50'

1V/1H



A1 DID #1 LEVEE DEGRADE PROFILE - DID #1 STA 57+00 TO 66+00

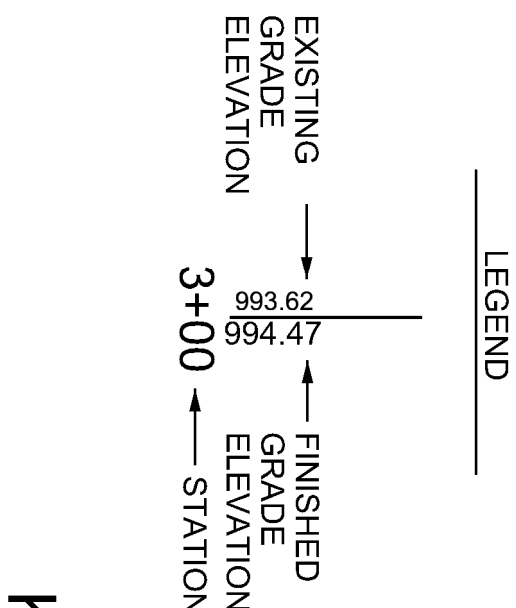
A1

SCALE T' = 50'

1V/1H

GENERAL NOTES:

1. SEE SHEETS 2-C-317 THROUGH 2-C-331 FOR LEVEE DEGRADE FINISHED CROSS SECTIONS.



KEY PLAN



US Army Corps of Engineers ©

MARK	DESCRIPTION	DATE

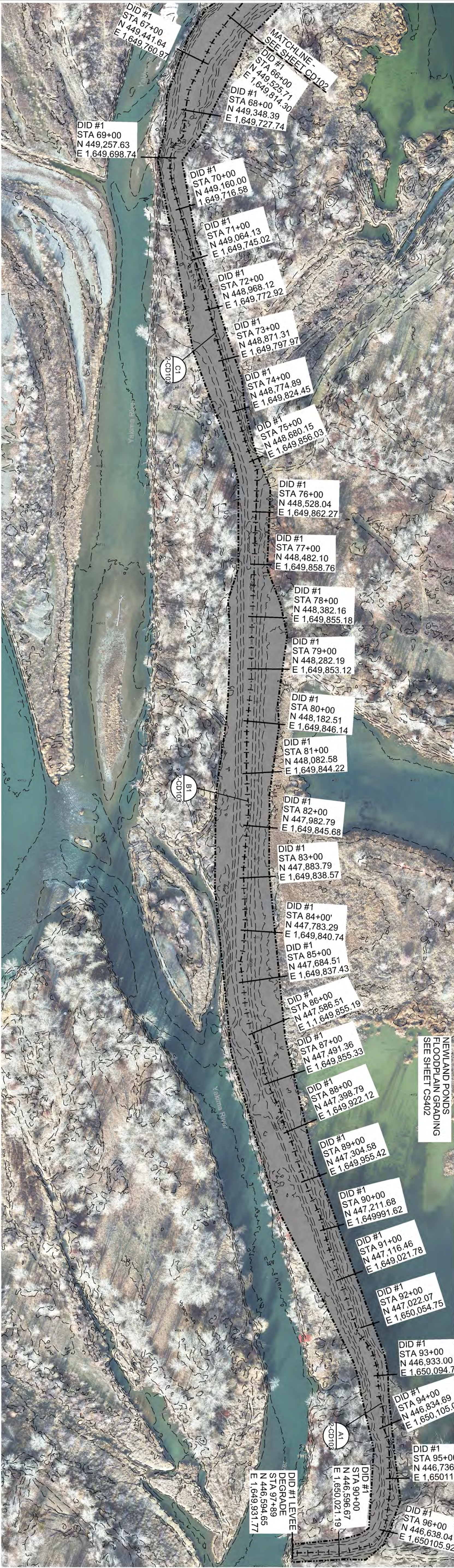
ISSUE DATE: 31 MAY 2022	CONTRACT NO.:
SOLICITATION NO.:	FILE NUMBER: D-8-4-109

DESIGNED BY: L. FORD	CKD BY: G. KATO
DWN BY: T. BARRETT	SUBMITTED BY: STEPHANIE McKENNA
SIZE: ANSI D	

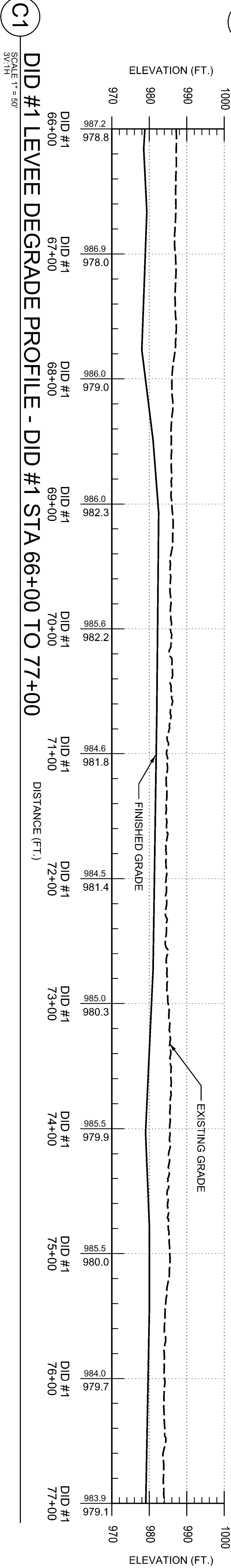
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	DEMOLITION PLAN 2 DID #1 LEVEE DEGRADE DID #1 STA 36+00 TO 66+00
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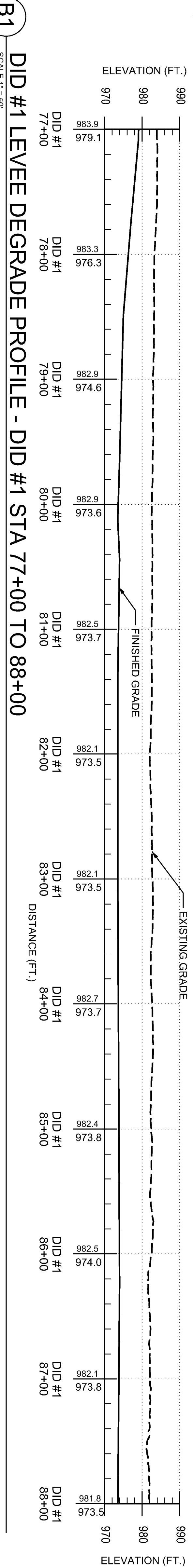
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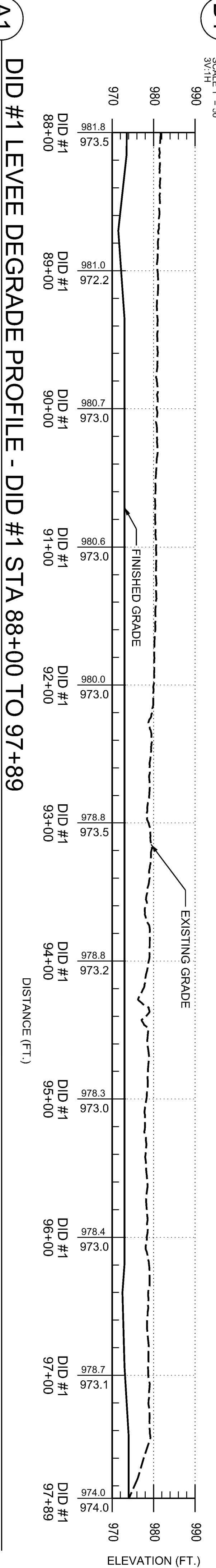
D1 DID #1 LEVEE DEGRADE PLAN VIEW - DID #1 STA 66+00 TO 97+89



C1 DID #1 LEVEE DEGRADE PROFILE - DID #1 STA 66+00 TO 77+00



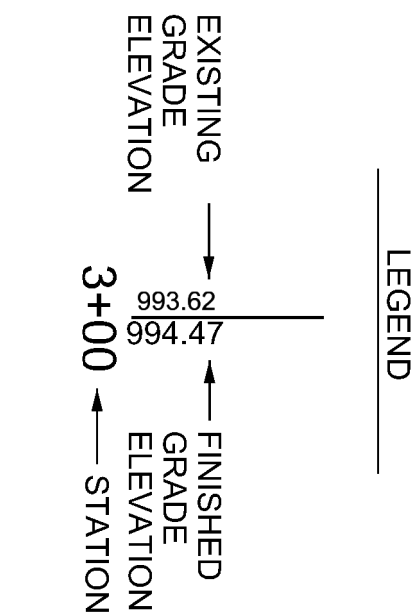
B1 DID #1 LEVEE DEGRADE PROFILE - DID #1 STA 77+00 TO 88+00



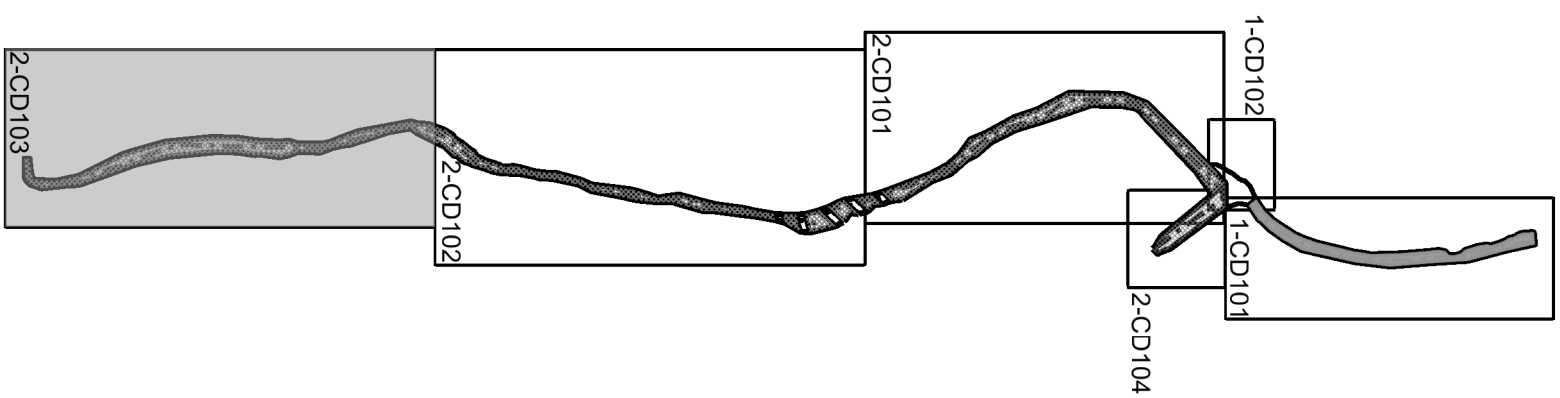
A1 DID #1 LEVEE DEGRADE PROFILE - DID #1 STA 88+00 TO 97+89

GENERAL NOTES:

- SEE SHEETS 2-C-317 THROUGH 2-C-331 FOR LEVEE DEGRADE FINISHED CROSS SECTIONS.



KEY PLAN



SHEET ID
OPT #2
2-CD103

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DEMOLITION PLAN 3
DID #1 LEVEE DEGRADE
DID #1 STA 66+00 TO 97+89

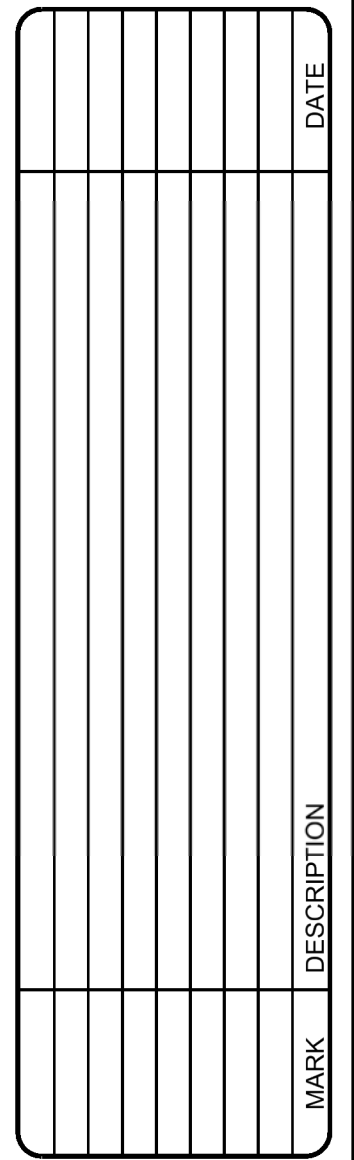
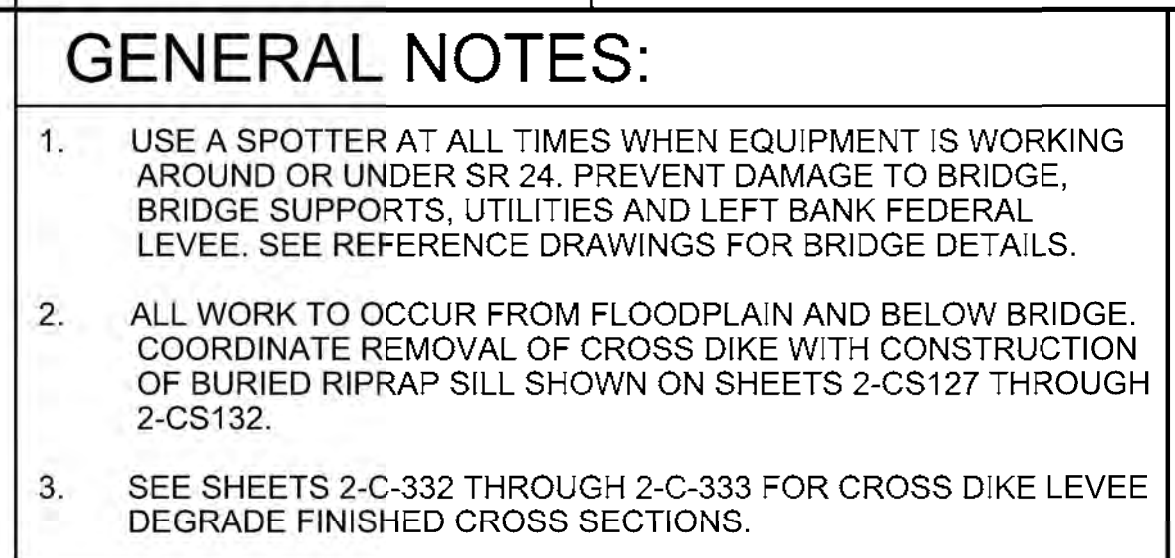
U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

DESIGNED BY:
L. FORD
DWN BY:
J. BARRETT
CKD BY:
G. KATO
SUBMITTED BY:
STEPHANIE McKENNA
SIZE:
ANSI D

ISSUE DATE:
31 MAY 2022
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:
D-8-4-109

MARK	DESCRIPTION	DATE

US Army Corps
of Engineers ©



U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	DESIGNED BY: FORN	ISSUE DATE: 31 MAY 2022
	DWN BY: J. BARRETT	SOLICITATION NO.:
	CKD BY: G. KATO	CONTRACT NO.:
	SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
	SIZE: A3SD	

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DEMOLITION PLAN 5
CRS DIKE DEGRADE
STA CD 0+00 TO 6+76

SHEET ID
OPT #2
2-CD104

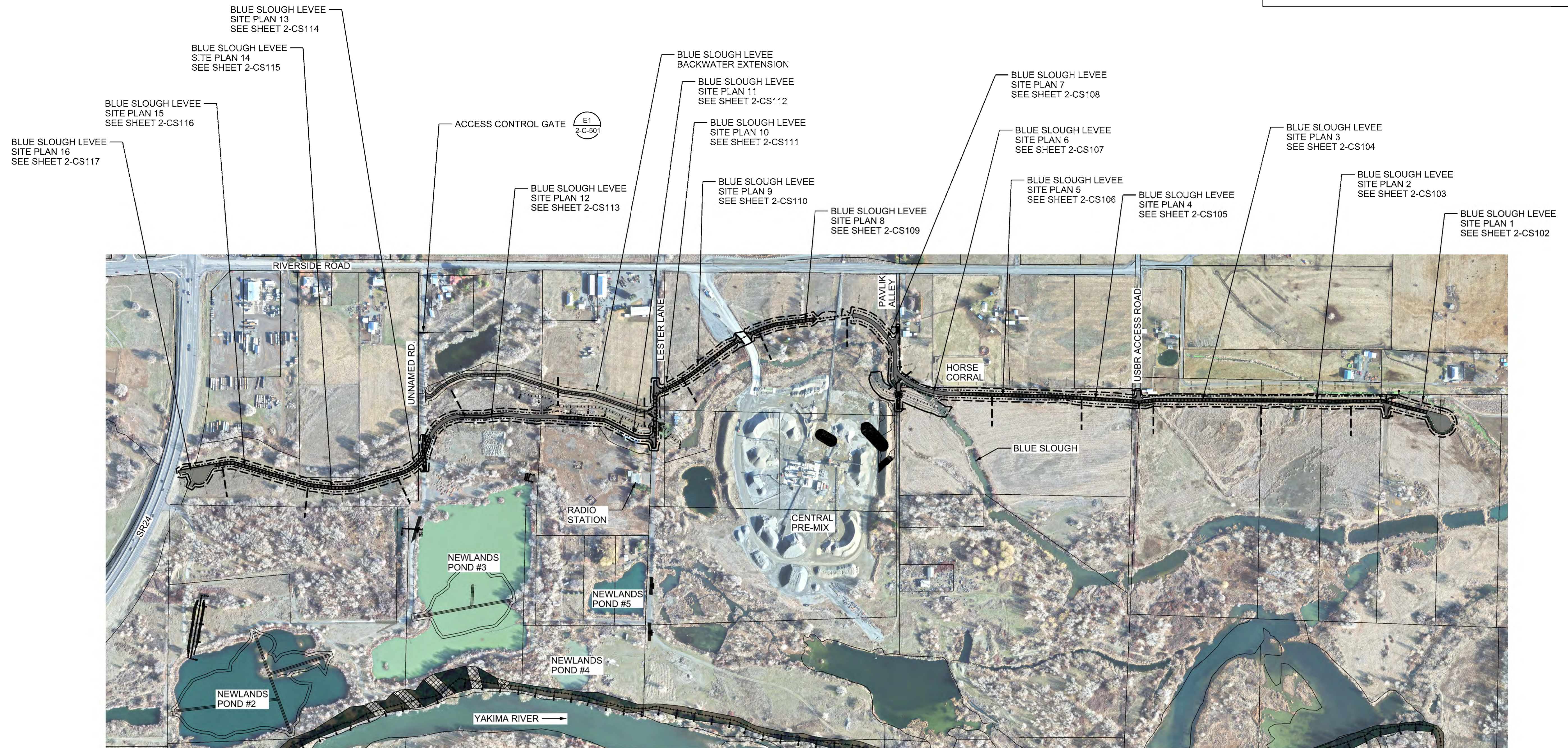


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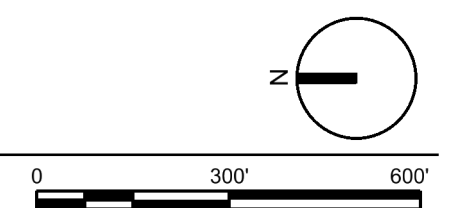
SEATTLE DISTRICT SEATTLE, WASHINGTON	L. FORD	31 MAY 2022
	DWN BY: C. WEIT	SOLICITATION NO.:
	CKD BY: G. KATO	CONTRACT NO.:
	SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-84-109
	SIZE: ANSI D	

SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

SHEET ID
OPT #2
2-CS100



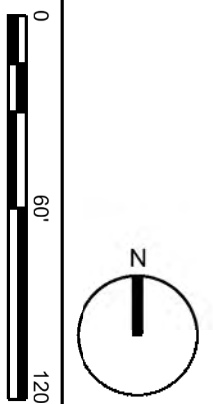
(B1) GENERAL SITE PLAN - BLUE SLOUGH LEVEE
1" = 300'





C1 GENERAL SITE PLAN - BLUE SLOUGH LEVEE BACKWATER EXTENSION

1" = 60'



File Path: I:\ECODesign\FY21_P2-404465_YAK1135\GIS\Drawings\2-CS101 - BLUE SLOUGH LEVEE BACKWATER EXTENSION - GENERAL SITE PLAN.dgn
Plot Date: 9/23/2022 AM

RTA SUBMITTAL w/OPTIONS

SHEET ID
OPT #2
2-CS101

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

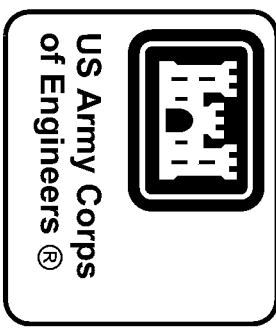
BLUE SLOUGH LEVEE
BACKWATER EXTENSION
GENERAL SITE PLAN

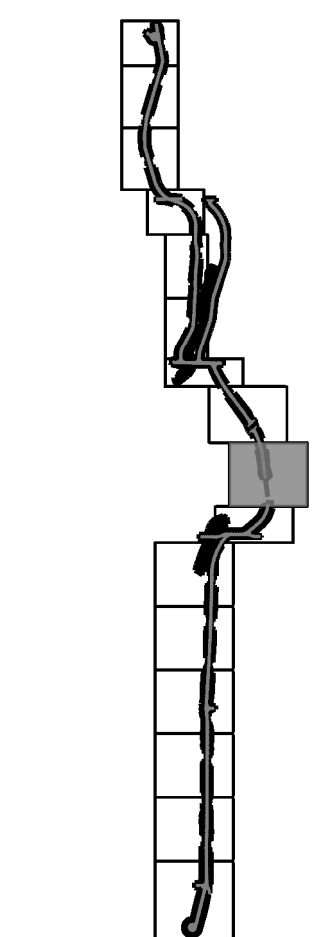
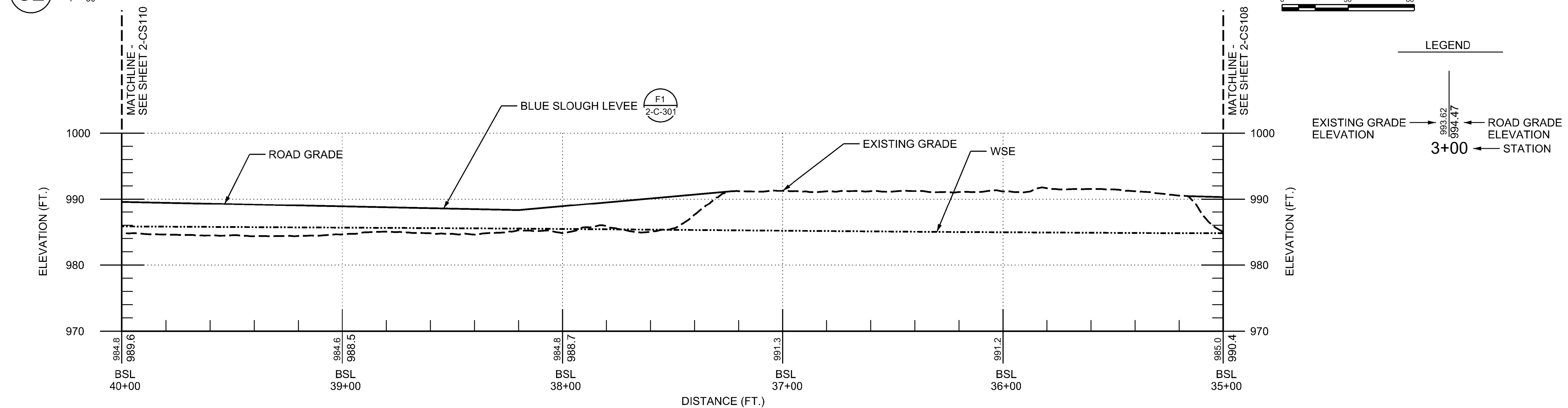
U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

DESIGNED BY:
L. FORD
DWN BY:
J. BARRETT
CKD BY:
G. KATO
SUBMITTED BY:
STEPHANIE MCKENNA
SIZE:
ANSI D

ISSUE DATE:
31 MAY 2022
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:
D-8-4-109

MARK	DESCRIPTION	DATE





GENERAL NOTES:

1. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
2. COORDINATION REQUIRED WITH CPM DURING CONSTRUCTION TO MAINTAIN ACCESS. EXISTING EMBANKMENT IS NOT TO BE MODIFIED. NO THROUGH ACCESS WILL BE PERMITTED AND WILL REQUIRE APPROACHES FROM UPSTREAM AND DOWNSTREAM OF CONVEYOR BELT FOR LEVEE CONSTRUCTION.

LEGEND

- - - - - VEGETATION FREE ZONE/
CONSTRUCTION LIMITS
 _____ LEVEE BENCH
 - . - . - . LEVEE TOE
 - - - - - BLUE SLOUGH
 — PL — PROPERTY LINE

[illegible]

ISSUE DATE: 31 MAY 2022	SOLICITATION NO.:	
DESIGNED BY: L. FORD	DWN BY: J. BARRETT	CONTRACT NO.:
	CKD BY: G. KATO	FILE NUMBER: D-84-109
	SUBMITTED BY: STEPHANIE MCKENNA	SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLUE SLOUGH LEVEE SITE PLAN 8
STA BSL 35+00 TO 40+00

SHEET ID
OPT #2
2-CS109

GENERAL NOTES:

1. CPV ENTRANCE ROAD IS NOT TO BE MODIFIED OR OBSTRUCT ACCESS AT TIME OF CONSTRUCTION.

LEGEND

- VEGETATION FREE ZONE/
CONSTRUCTION LIMITS
--- LEVEE BENCH
--- LEVEE TOE
--- BLUE SLOUGH
--- PL --- PROPERTY LINE



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MARK	DESCRIPTION	DATE

ISSUE DATE:
31 MAY 2022
SOLICITATION NO.:

CONTRACT NO.:

FILE NUMBER:
D-8-4-109

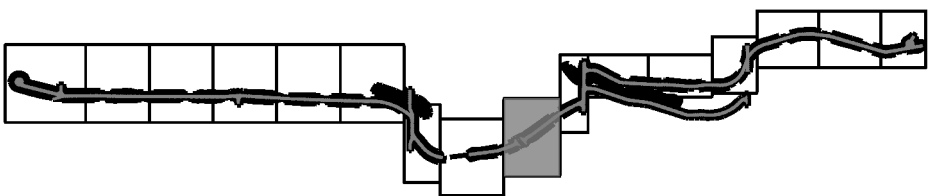
DESIGNED BY:
L. FORD
DWN BY:
J. BARRETT
CKD BY:
G. KATO
SUBMITTED BY:
STEPHANIE McKENNA
SIZE:
ANSI D

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLUE SLOUGH LEVEE SITE PLAN 9
STA BSL 40+00 TO 45+00

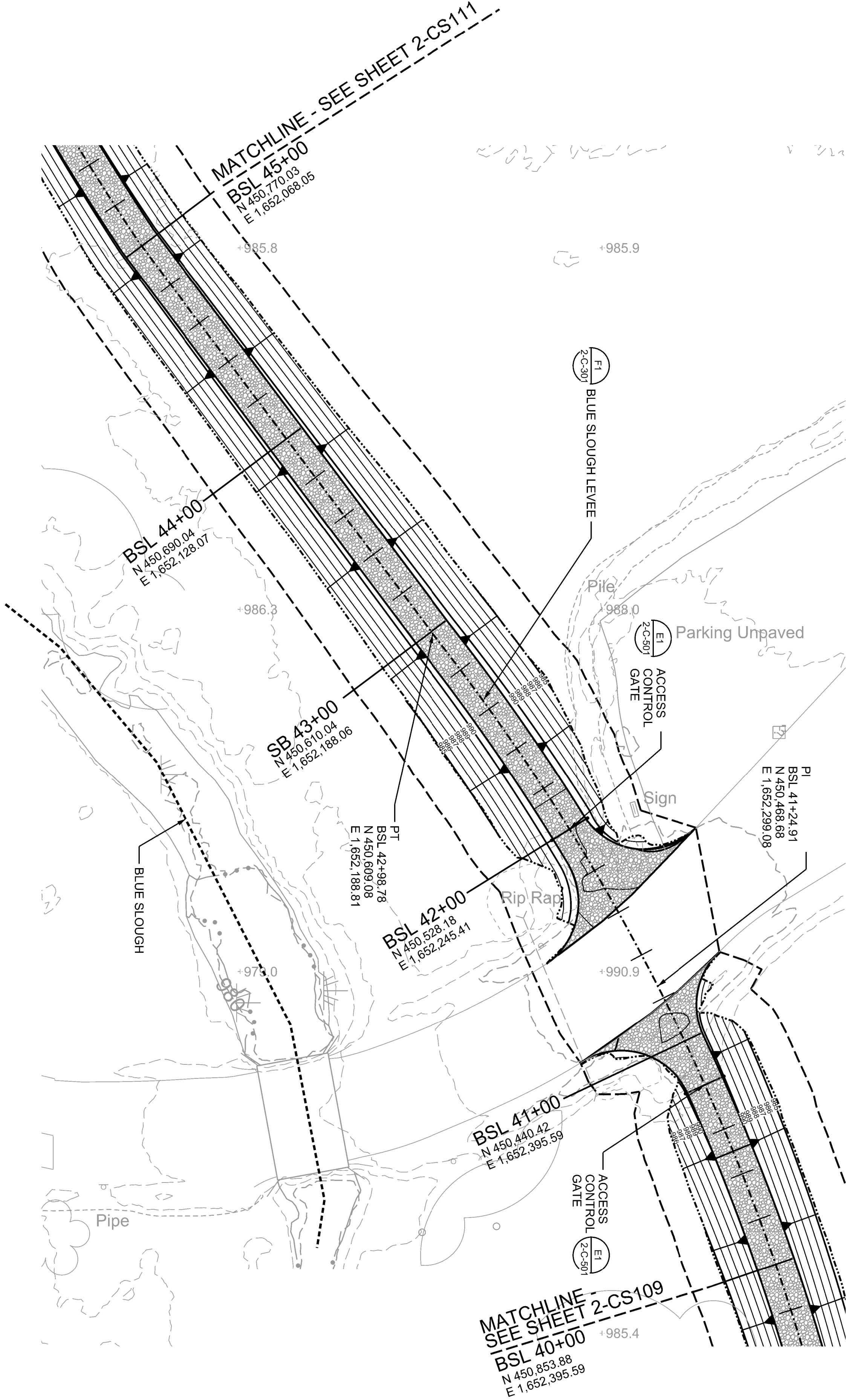
KEY PLAN



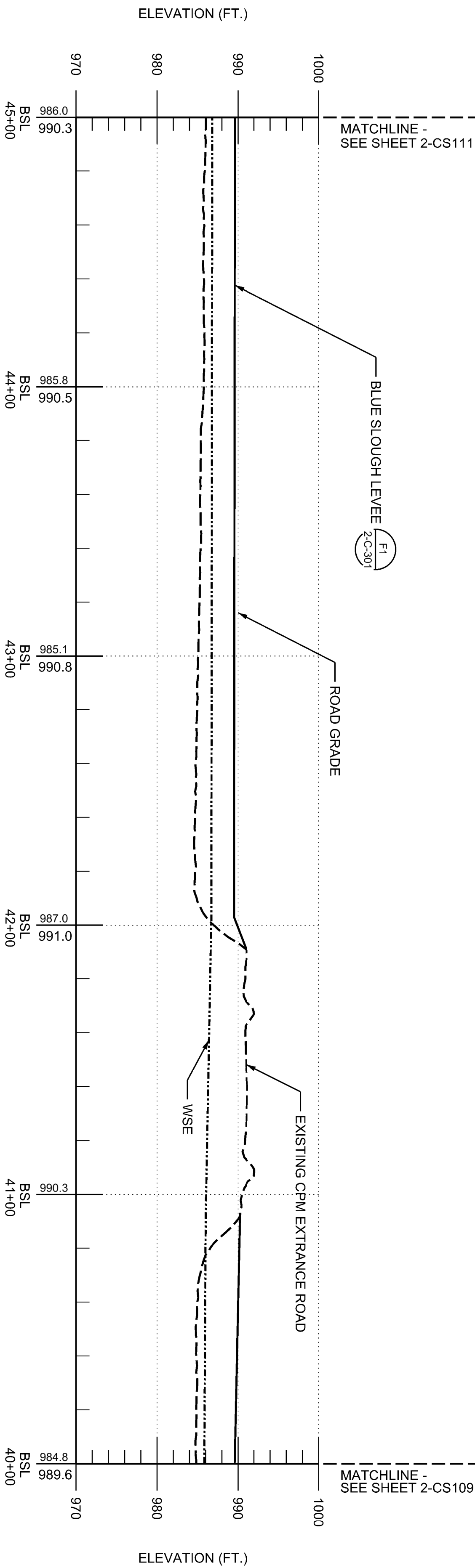
EXISTING GRADE
ELEVATION
3+00
ROAD GRADE
ELEVATION
STATION

LEGEND

EXISTING GRADE
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ROAD GRADE
ELEVATION
STATION

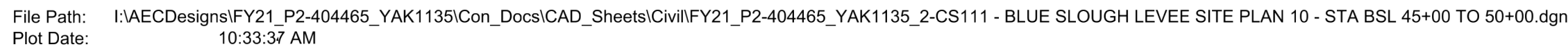


BLUE SLOUGH LEVEE PLAN VIEW - STA BSL 40+00 TO 45+00



BLUE SLOUGH LEVEE PROFILE - STA BSL 40+00 TO 45+00

SHEET ID
OPT #2
2-CS110



GENERAL NOTES:

- ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
- DEMOLITION OF EXISTING STRUCTURES IS THE RESPONSIBILITY OF THE LOCAL SPONSOR UNLESS OTHERWISE IDENTIFIED.

LEGEND

---	VEGETATION FREE ZONE/ CONSTRUCTION LIMITS
---	LEVEE BENCH
---	LEVEE TOE
---	WETLAND
---	PROPERTY LINE



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DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
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CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

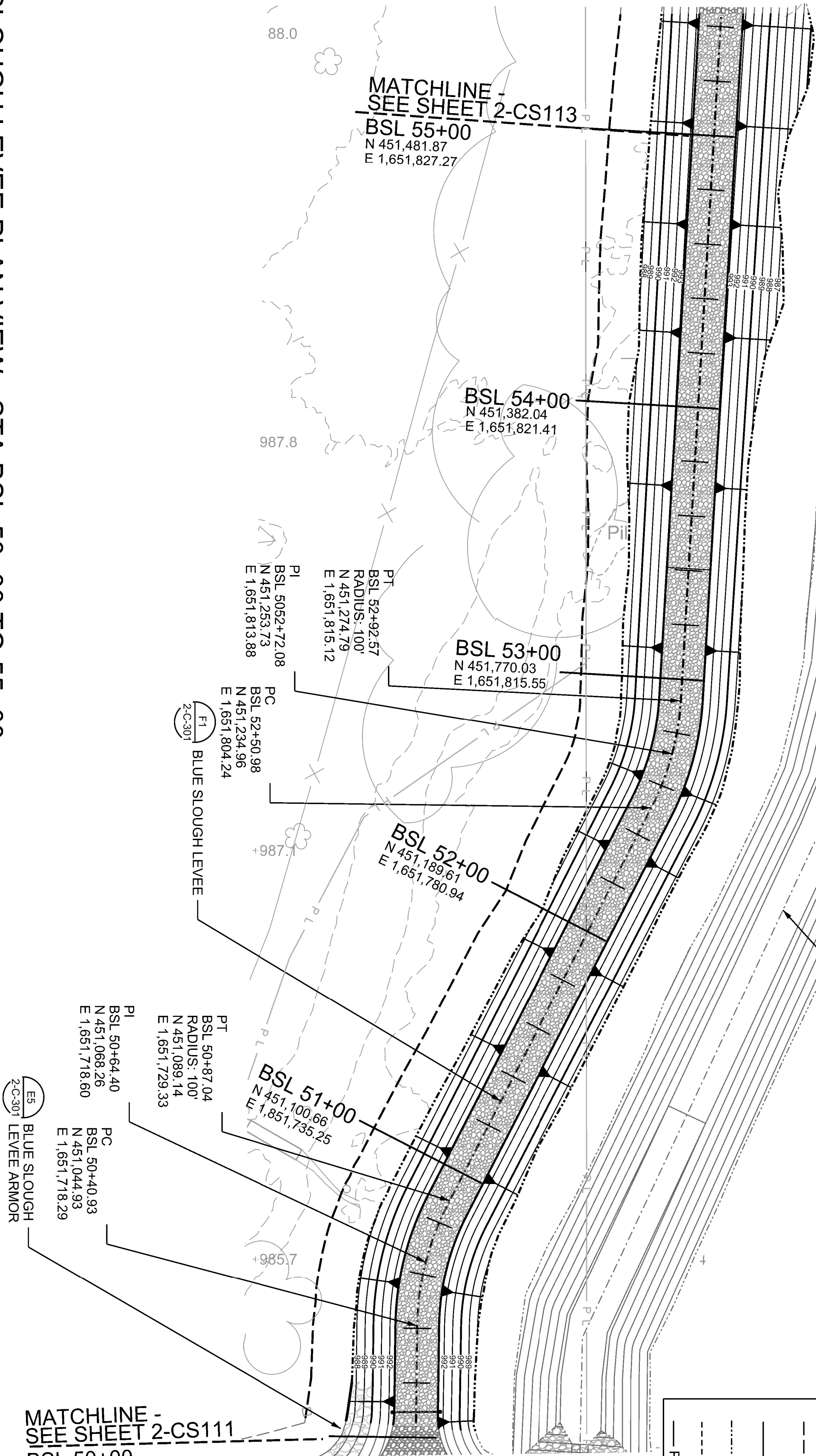
U.S. ARMY CORPS OF ENGINEERS
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SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLUE SLOUGH LEVEE SITE PLAN 11
STA BSL 50+00 TO 55+00

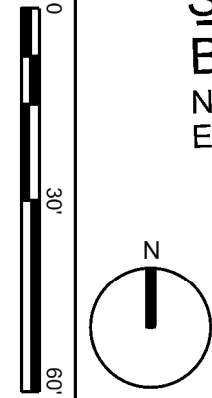
SHEET ID
OPT #2
2-CS112

BLUE SLOUGH REALIGNMENT -
LESTER LANE CHANNEL



C2 BLUE SLOUGH LEVEE PLAN VIEW - STA BSL 50+00 TO 55+00

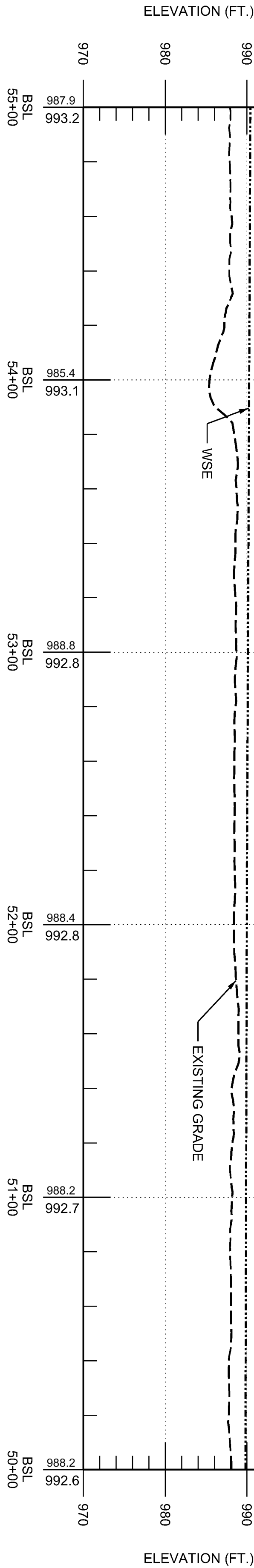
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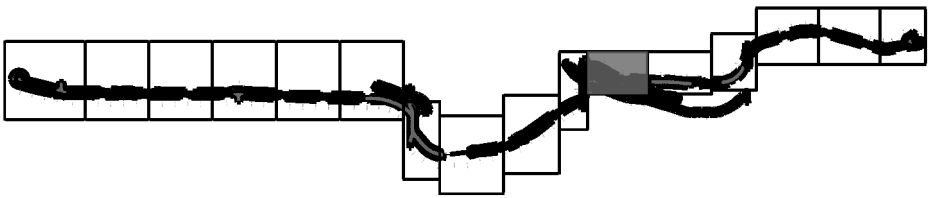
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---	ROAD GRADE
---	ELEVATION
---	3+00
---	STATION

WSE



A2 BLUE SLOUGH LEVEE PROFILE - STA BSL 50+00 TO 55+00

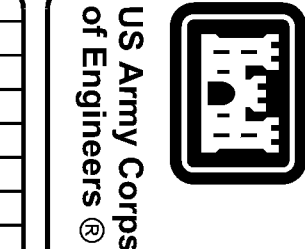
SCALE 1" = 30'
3 1/4"



KEY PLAN

GENERAL NOTES:

1. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.



LEGEND

- VEGETATION FREE ZONE/
CONSTRUCTION LIMITS
--- LEVEE BENCH
--- LEVEE TOE
--- WETLAND
--- PL --- PROPERTY LINE

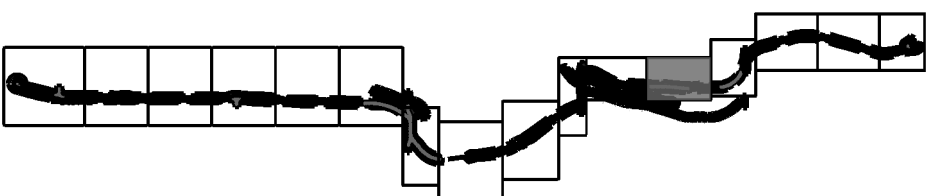
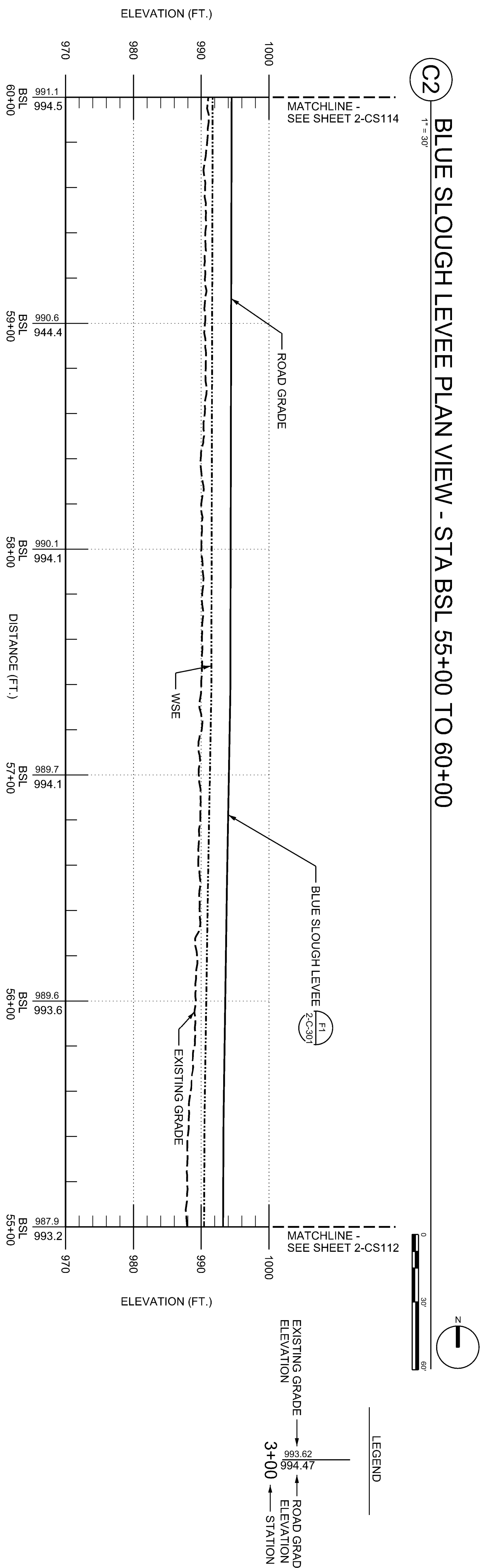
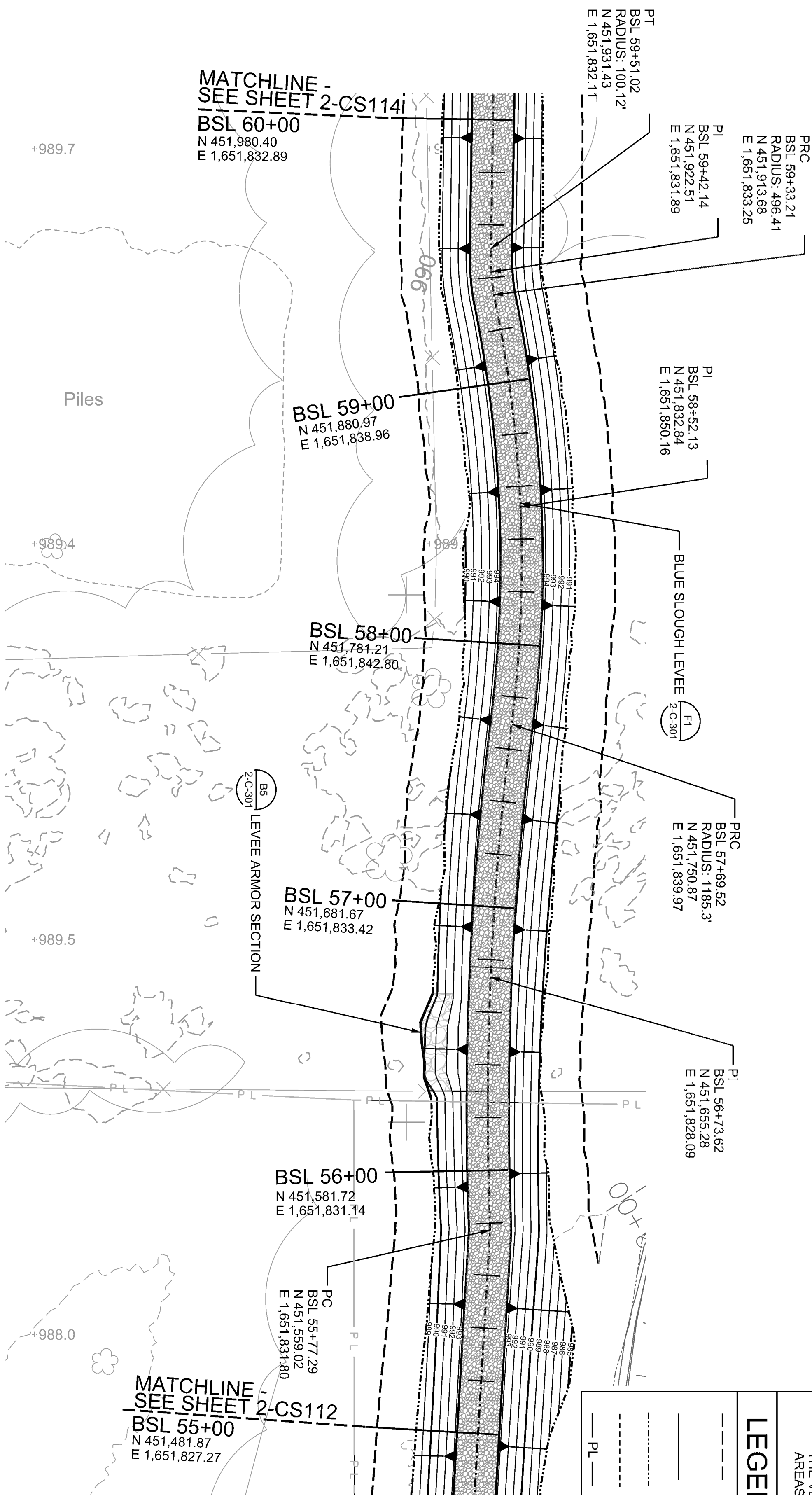
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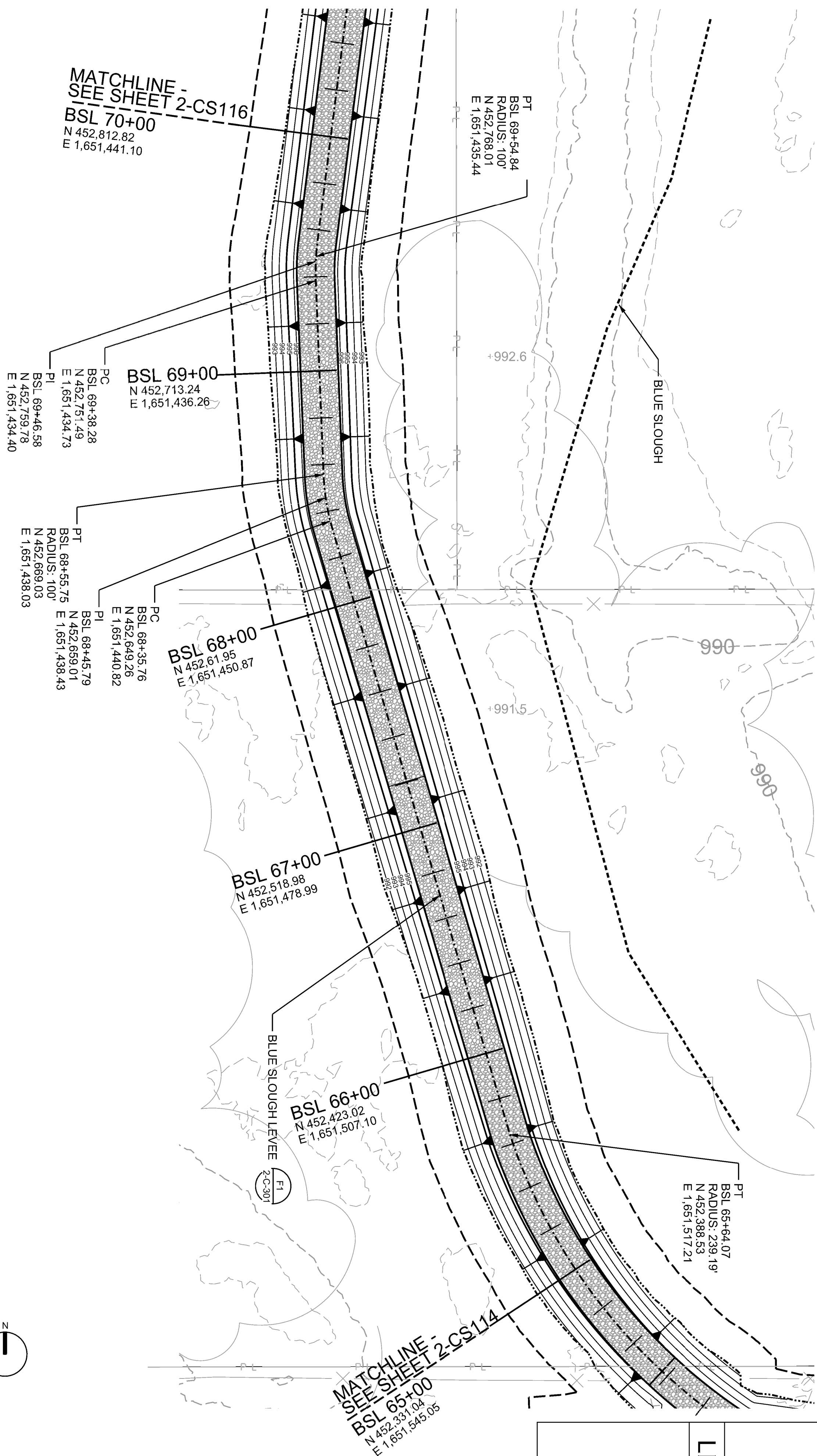
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

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---	--

YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	
BLUE SLOUGH LEVEE SITE PLAN 12 STA BSL 55+00 TO 60+00	

SHEET ID OPT #2 2-CS113





GENERAL NOTES:

1. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN



LEGEND

--- -- -- VEGETATION FREE ZONE
 --- -- -- CONSTRUCTION LIMITS
 _____ LEVEE BENCH
 - - - - - LEVEE TOE
 - - - - - BLUE SLOUGH
 _____ PL _____ PROPERTY LINE

MARK	DESCRIPTION	DATE

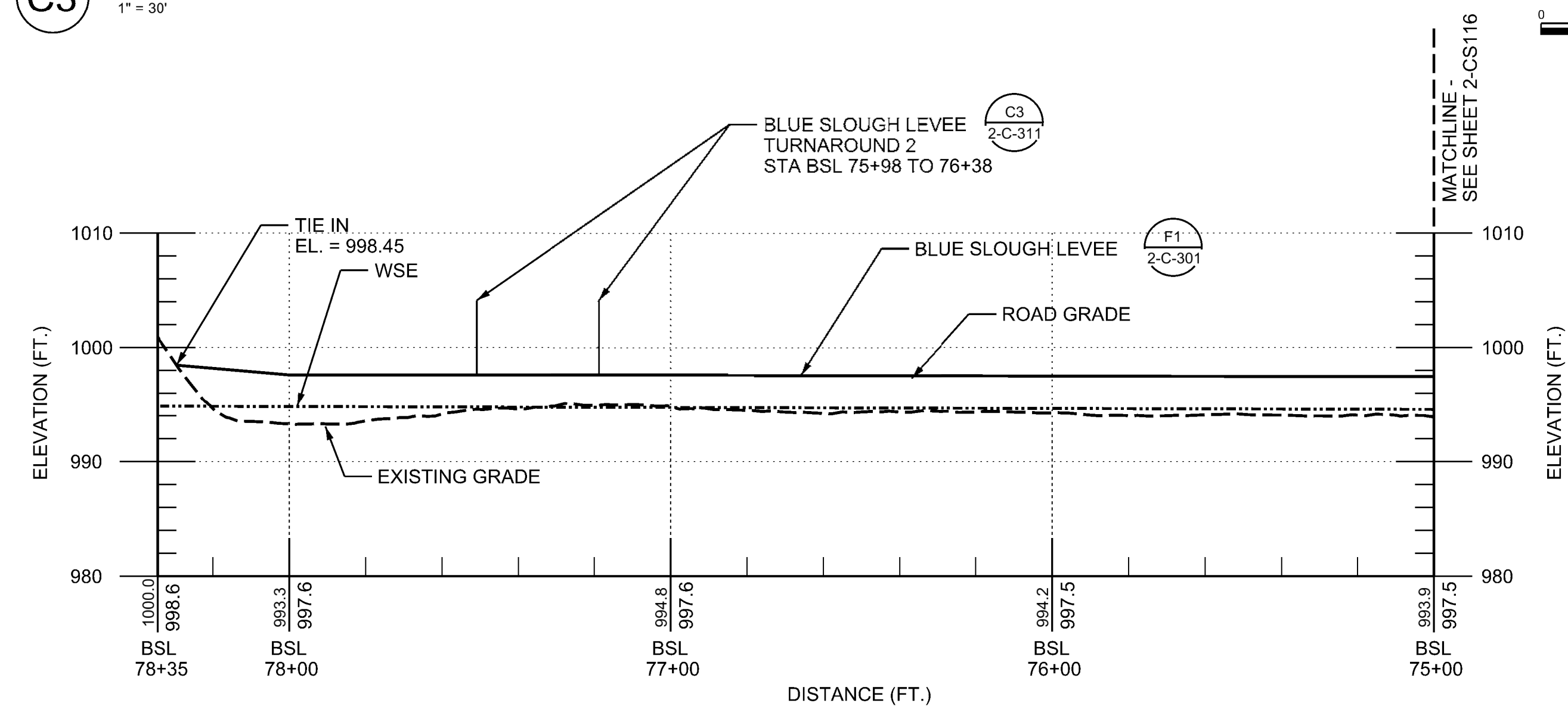
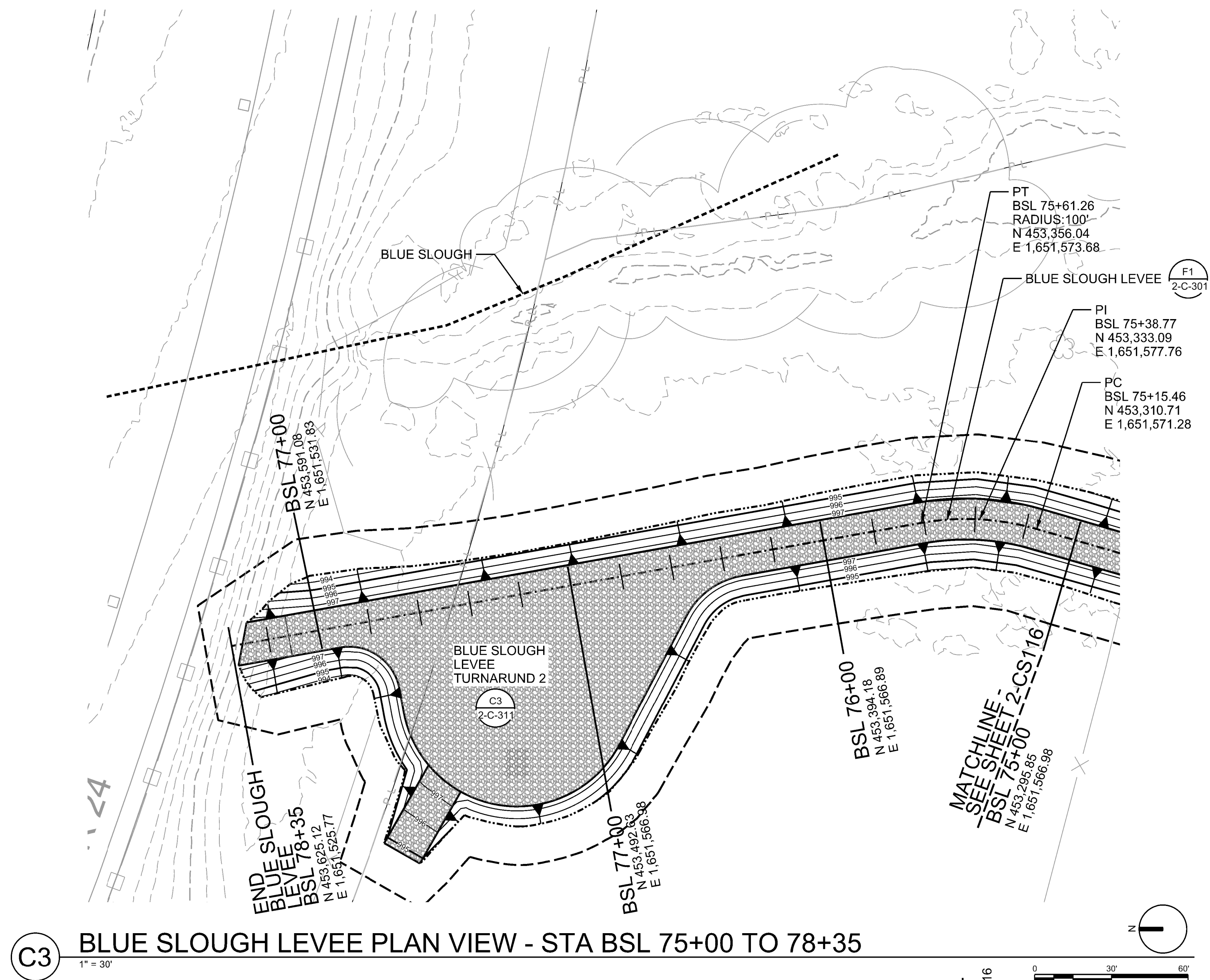
ISSUE DATE:	31 MAY 2022
SOLICITATION NO.:	
CONTRACT NO.:	
FILE NUMBER:	D-8-4-109

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DWN BY: J. BARRETT	
CKD BY: G. KATO	
SUBMITTED BY: STEPHANIE McK	
SIZE: ANSI D	

ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLUE SLOUGH LEVEE SITE PLAN 14
STA BSL 65+00 TO 70+00

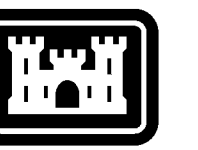


GENERAL NOTES:

1. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.

LEGEND

- | | |
|-----------|--|
| --- | VEGETATION FREE ZONE/
CONSTRUCTION LIMITS |
| — | LEVEE BENCH |
| - - - - - | LEVEE TOE |
| - - - - - | WETLAND |
| — PL — | PROPERTY LINE |



U.S. Army Corps
of Engineers ®

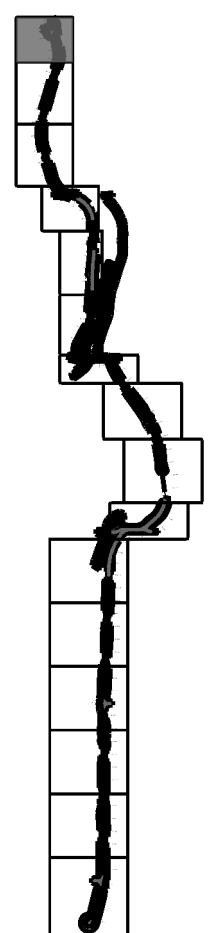
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SEATTLE DISTRICT SEATTLE, WASHINGTON	L. FORD	31 MAY 2022
	DWN BY: G. KATO	SOLICITATION NO.:
	CONTRACT NO.:	
	SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8 4-109
	SIZE:	ANSI D

SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLUE SLOUGH LEVEE SITE PLAN 16
STA BSL 75+00 TO 78+35

SHEET ID
OPT #2
2-CS117



KEY PLAN

- GENERAL NOTES:
1.

GENERAL SITE UTILITIES PLAN 2 - BLUE SLOUGH LEVEE - LESTER LANE. SEE SHEET 2-CS102
2.

ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.

- LEGEND
- VEGETATION FREE ZONE CONSTRUCTION LIMITS

--- LEVEE BENCH

--- LEVEE TOE

--- BLUE SLOUGH

--- PL --- PROPERTY LINE

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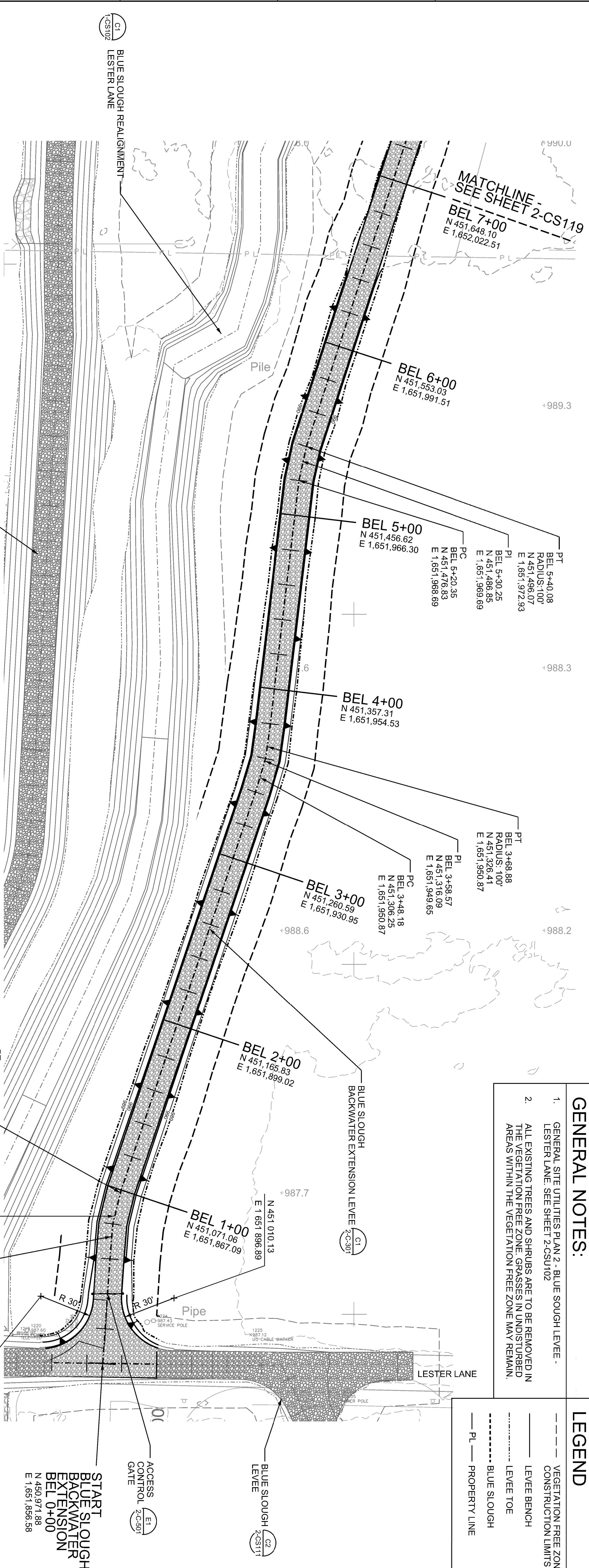
MARK	DESCRIPTION	DATE

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CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
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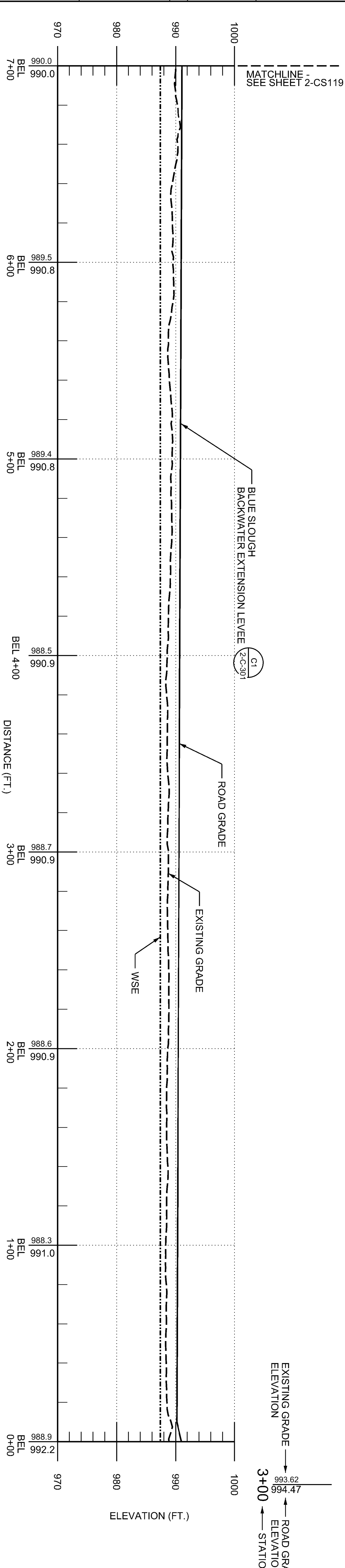
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	
BLUE SLOUGH BACKWATER EXTENSION SITE PLAN 1 STA BEL 0+00 TO 7+00	

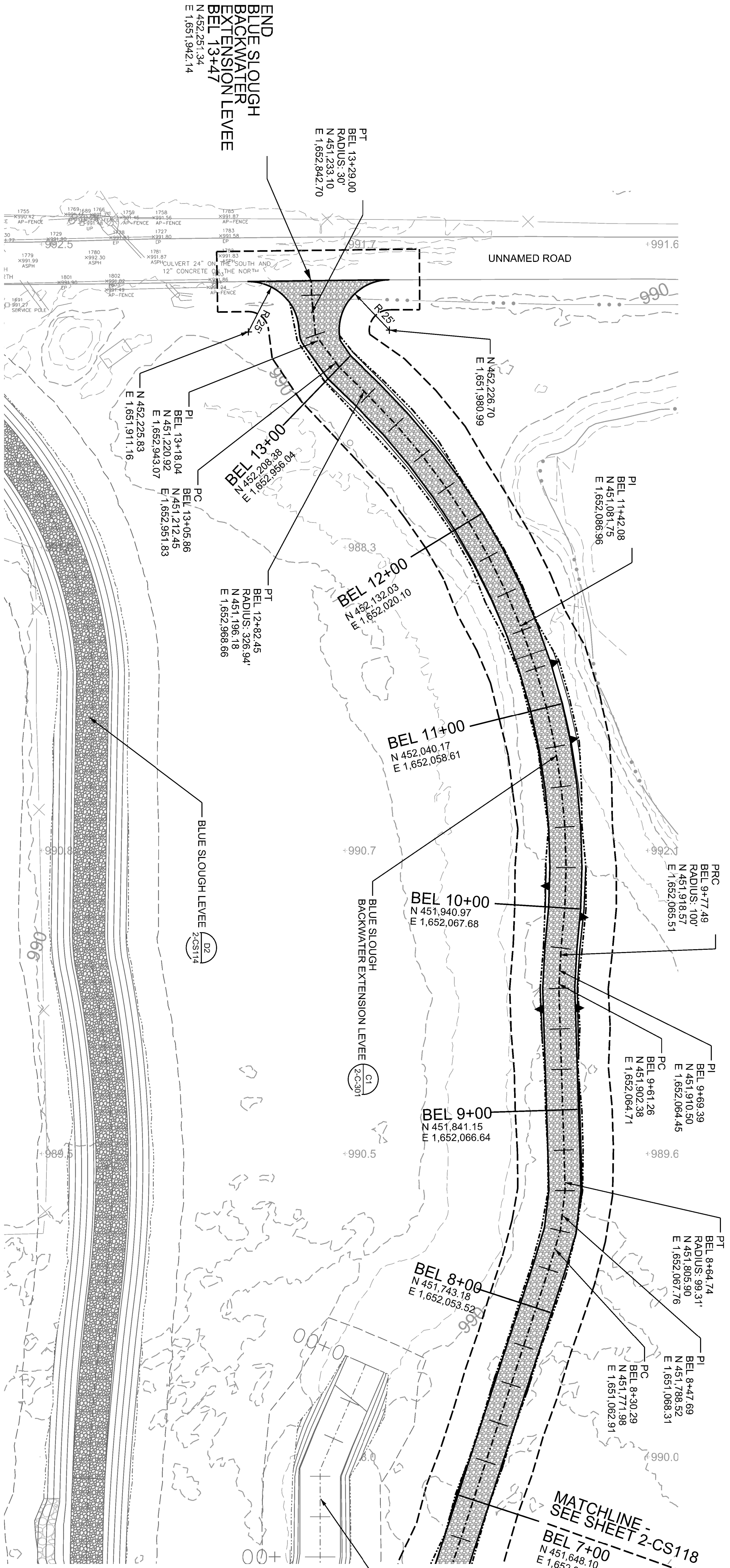
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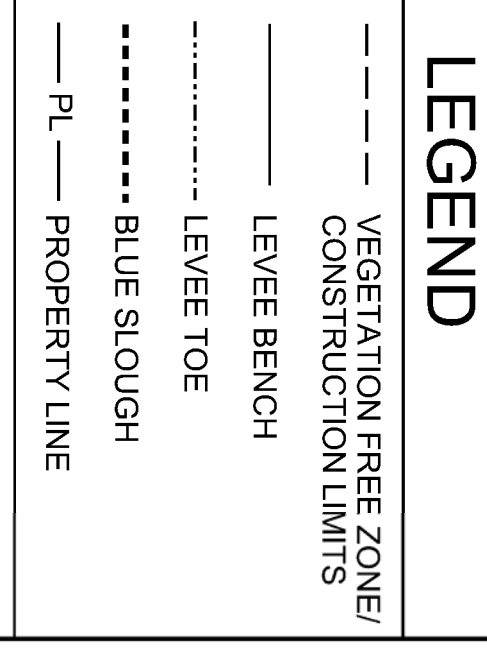
C1 BLUE SLOUGH BACKWATER EXTENSION LEVEE PLAN VIEW - STA BEL 0+00 TO 7+00



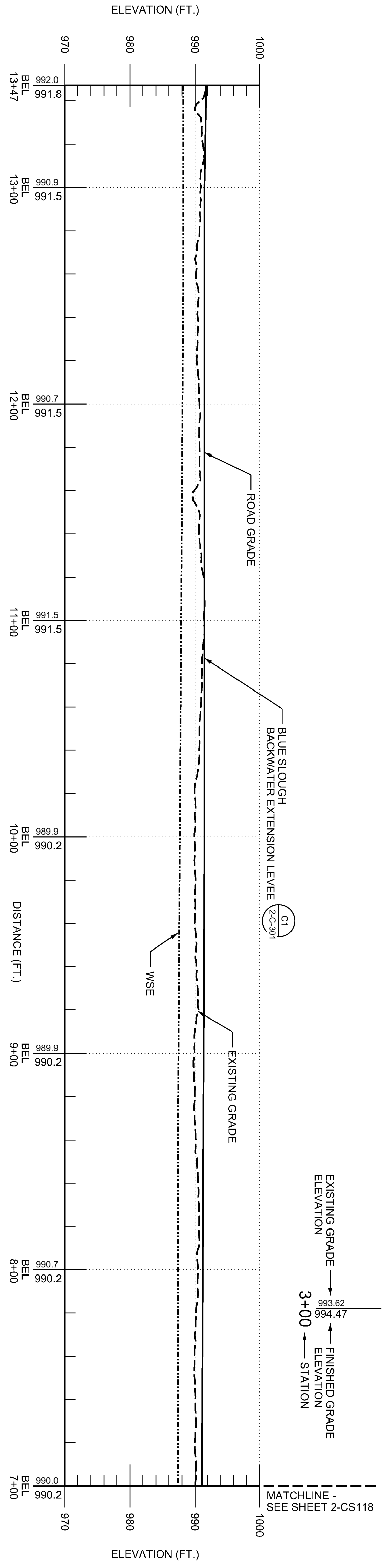
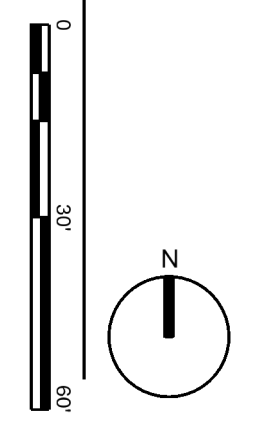
A1 BLUE SLOUGH BACKWATER EXTENSION PROFILE - STA BEL 0+00 TO 7+00



- GENERAL NOTES:**
- GENERAL SITE UTILITIES PLAN 1 - BLUE SLOUGH LEVEE - UN-NAMED ROAD. SEE SHEET 2-CSU101
 - ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.



C1 BLUE SLOUGH BACKWATER EXTENSION LEVEE PLAN VIEW - STA BEL 7+00 TO 13+47



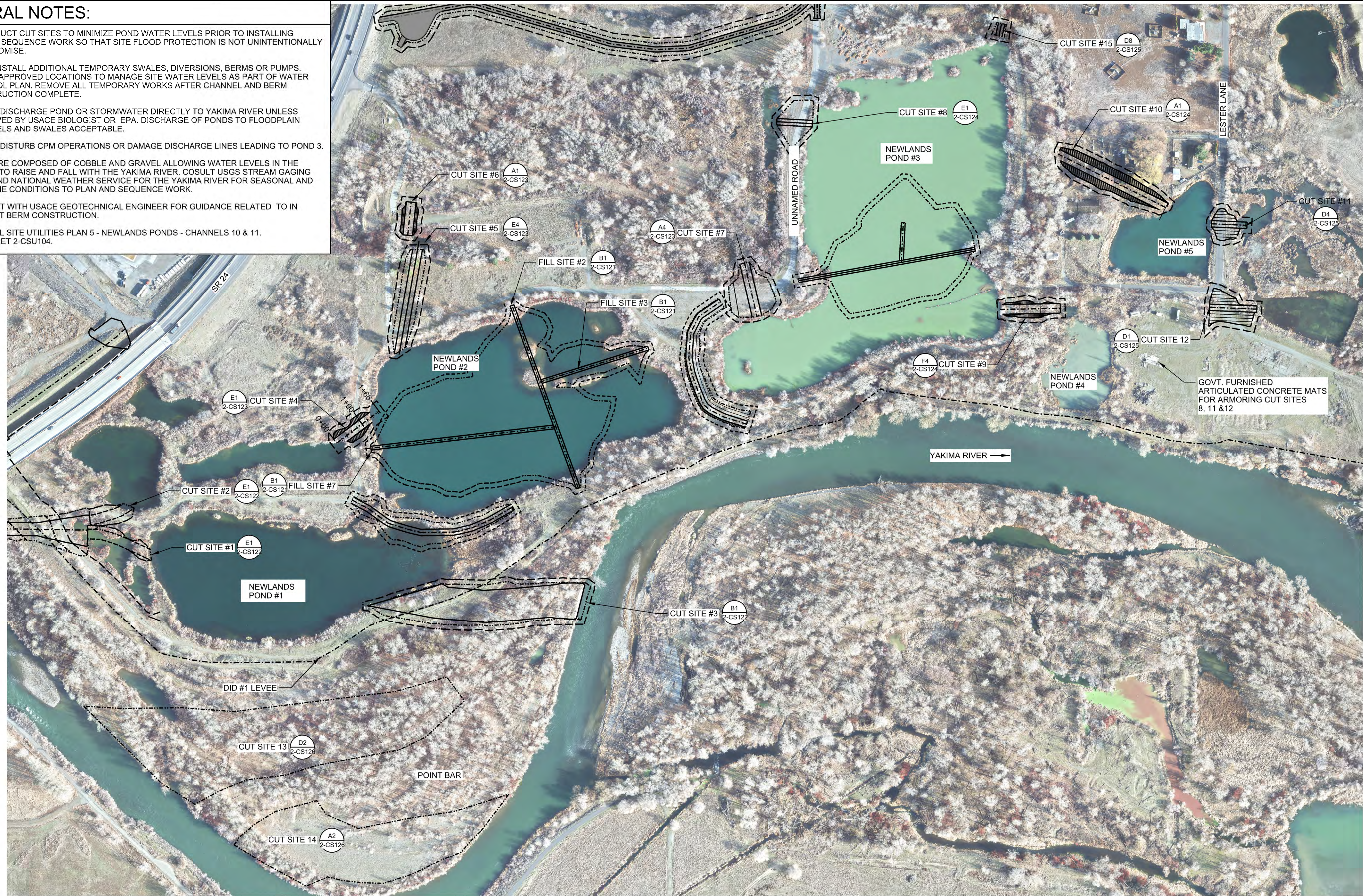
A1 BLUE SLOUGH BACKWATER EXTENSION LEVEE PROFILE - STA BEL 7+00 TO 13+47



KEY PLAN

SHEET ID OPT #2 2-CS119	YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON BLUE SLOUGH BACKWATER EXTENSION SITE PLAN 2 STA BEL 7+00 TO 13+47	U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022	
			DWN BY: J. BARRETT	SOLICITATION NO.:	
			CKD BY: G. KATO	CONTRACT NO.:	
			SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109	
			SIZE: ANSI D		
			MARK	DESCRIPTION	DATE

1. CONSTRUCT CUT SITES TO MINIMIZE POND WATER LEVELS PRIOR TO INSTALLING BERMS. SEQUENCE WORK SO THAT SITE FLOOD PROTECTION IS NOT UNINTENTIONALLY COMPROMISE.
2. OK TO INSTALL ADDITIONAL TEMPORARY SWALES, DIVERSIONS, BERMS OR PUMPS. IN COR APPROVED LOCATIONS TO MANAGE SITE WATER LEVELS AS PART OF WATER CONTROL PLAN. REMOVE ALL TEMPORARY WORKS AFTER CHANNEL AND BERM CONSTRUCTION COMPLETE.
3. DO NOT DISCHARGE POND OR STORMWATER DIRECTLY TO YAKIMA RIVER UNLESS APPROVED BY USACE BIOLOGIST OR EPA. DISCHARGE OF PONDS TO FLOODPLAIN CHANNELS AND SWALES ACCEPTABLE.
4. DO NOT DISTURB CPM OPERATIONS OR DAMAGE DISCHARGE LINES LEADING TO POND 3.
5. SOILS ARE COMPOSED OF COBBLE AND GRAVEL ALLOWING WATER LEVELS IN THE PONDS TO RAISE AND FALL WITH THE YAKIMA RIVER. CONSULT USGS STREAM GAGING DATA AND NATIONAL WEATHER SERVICE FOR THE YAKIMA RIVER FOR SEASONAL AND EXTREME CONDITIONS TO PLAN AND SEQUENCE WORK.
6. CONSULT WITH USACE GEOTECHNICAL ENGINEER FOR GUIDANCE RELATED TO IN THE WET BERM CONSTRUCTION.
7. GENERAL SITE UTILITIES PLAN 5 - NEWLANDS PONDS - CHANNELS 10 & 11. SEE SHEET 2-CSU104.



A1 NEWLANDS PONDS FLOODPLAIN GRADING - SITE PLAN
1" = 200'

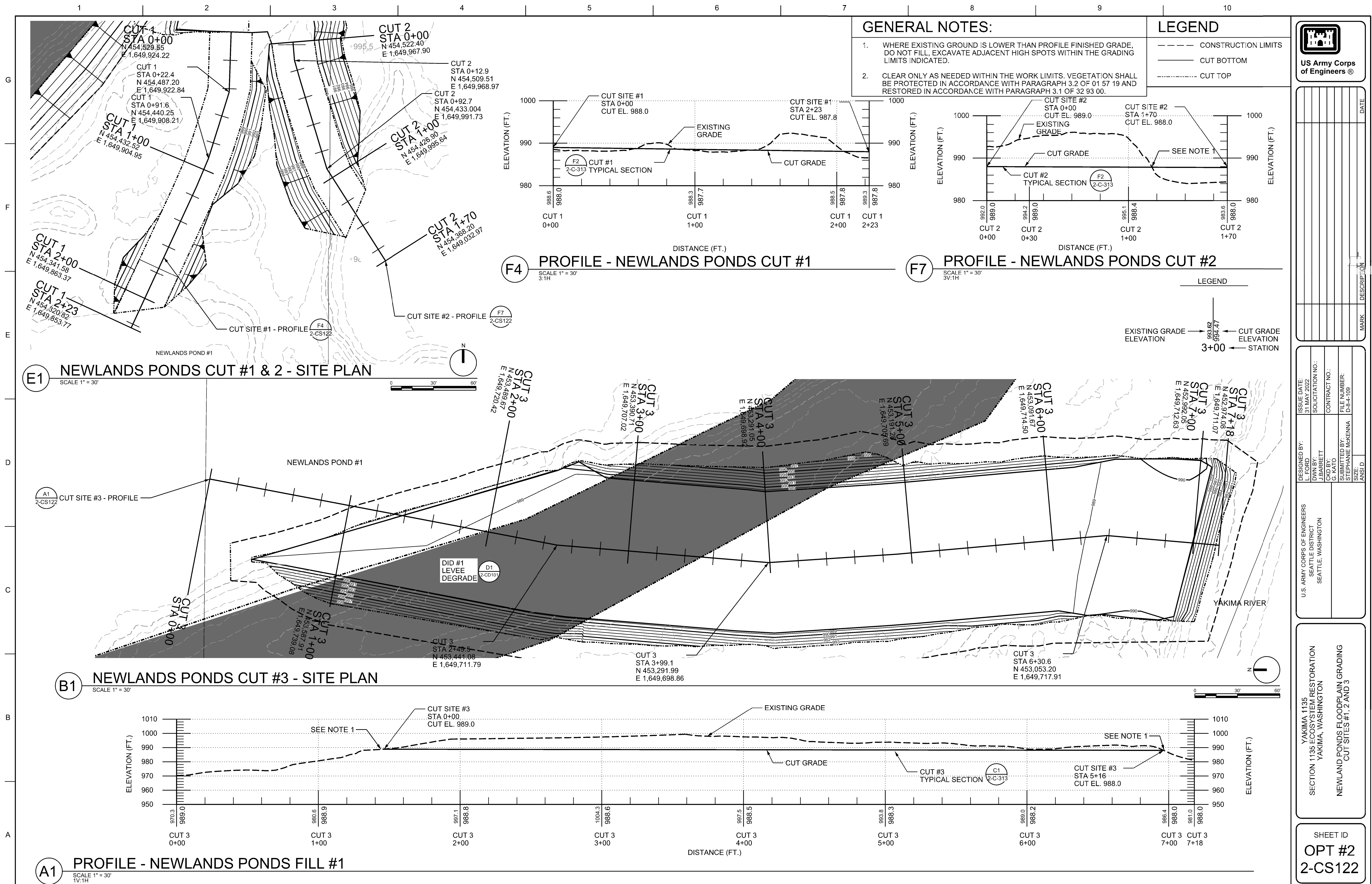
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Plot Date: 11:34:59 AM

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	L. FORD	31 MAY 2022
	D. BARRETT	SOLICITATION NO.:
	C/K BY: G. KATO	CONTRACT NO.:
	SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-64-109
	SIZE: ANSI D	

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON
NEWLANDS PONDS FLOODPLAIN GRADING
SITE PLAN

SHEET ID
OPT #2
2-CS120



GENERAL NOTES

1. WHERE EXISTING GROUND IS LOWER THAN PROFILE FINISHED GRADE, DO NOT FILL, EXCAVATE ADJACENT HIGH SPOTS WITHIN THE GRADING LIMITS INDICATED.
2. CLEAR ONLY AS NEEDED WITHIN THE WORK LIMITS. VEGETATION SHALL BE PROTECTED IN ACCORDANCE WITH PARAGRAPH 3.2 OF 01 57 19 AND RESTORED IN ACCORDANCE WITH PARAGRAPH 3.1 OF 32 93 00.

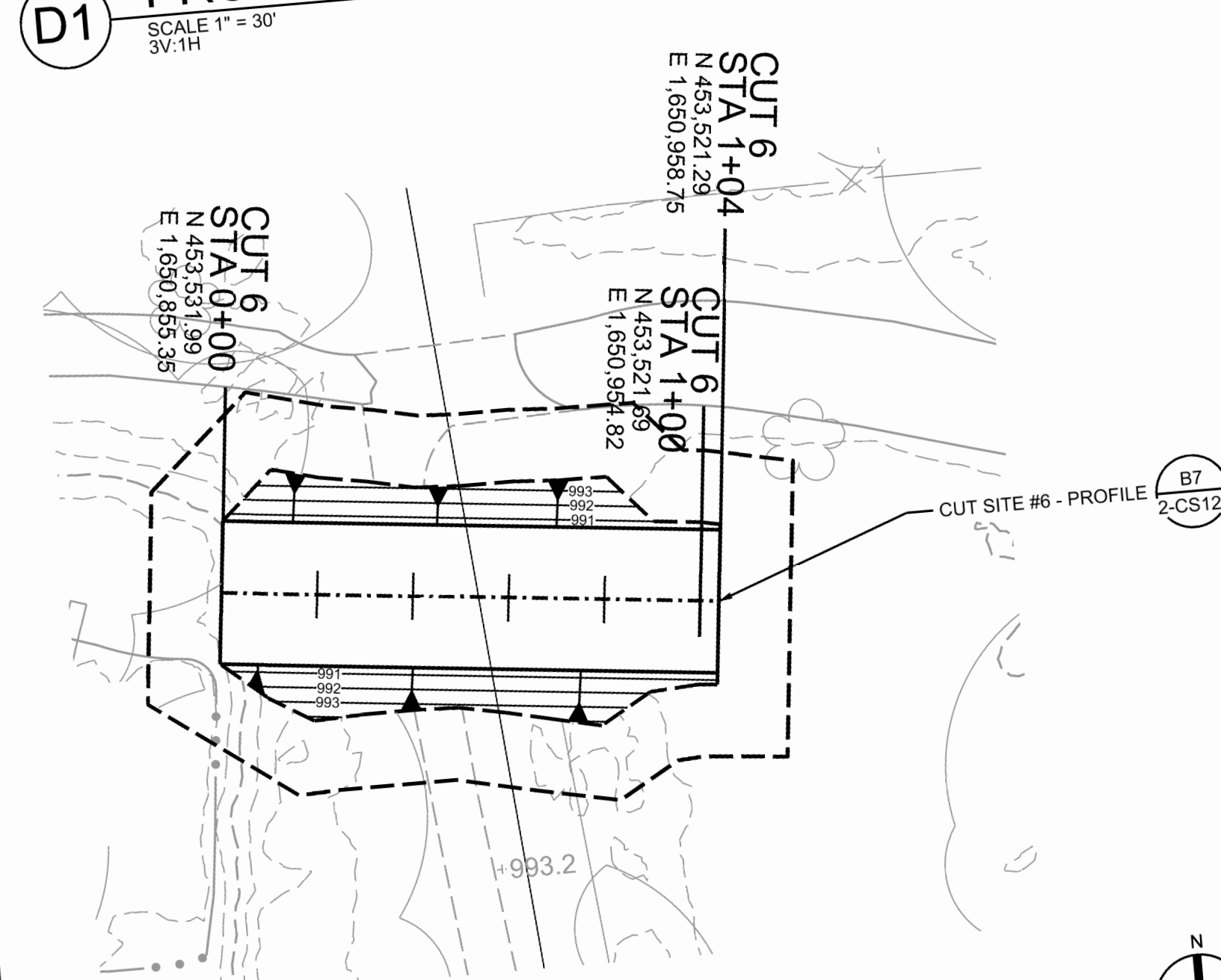
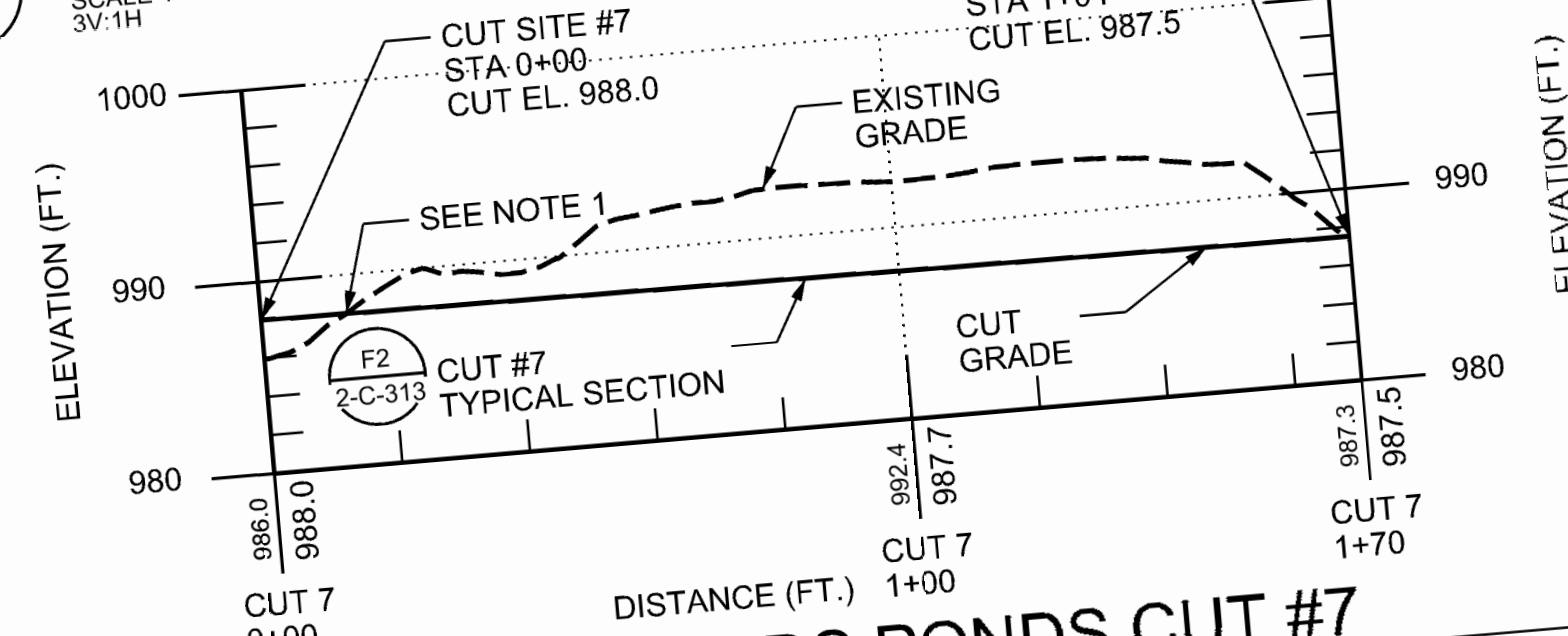
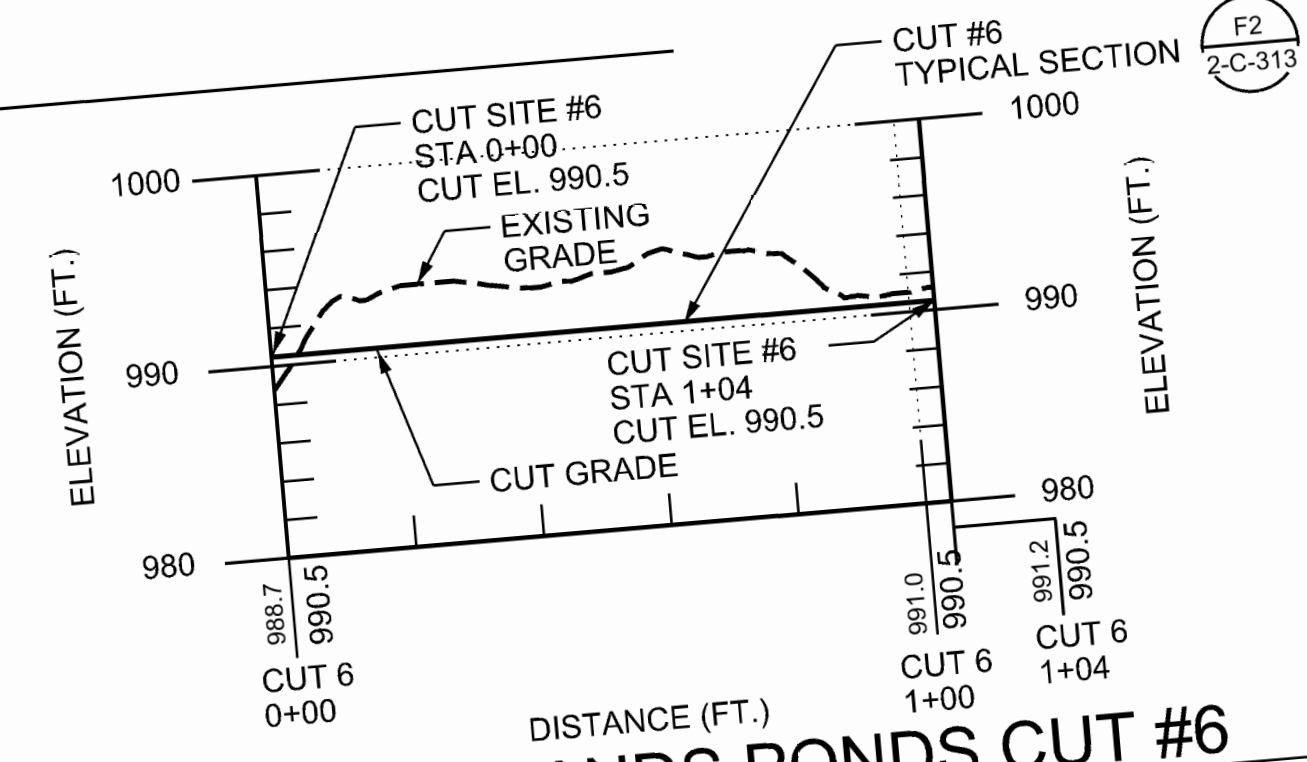
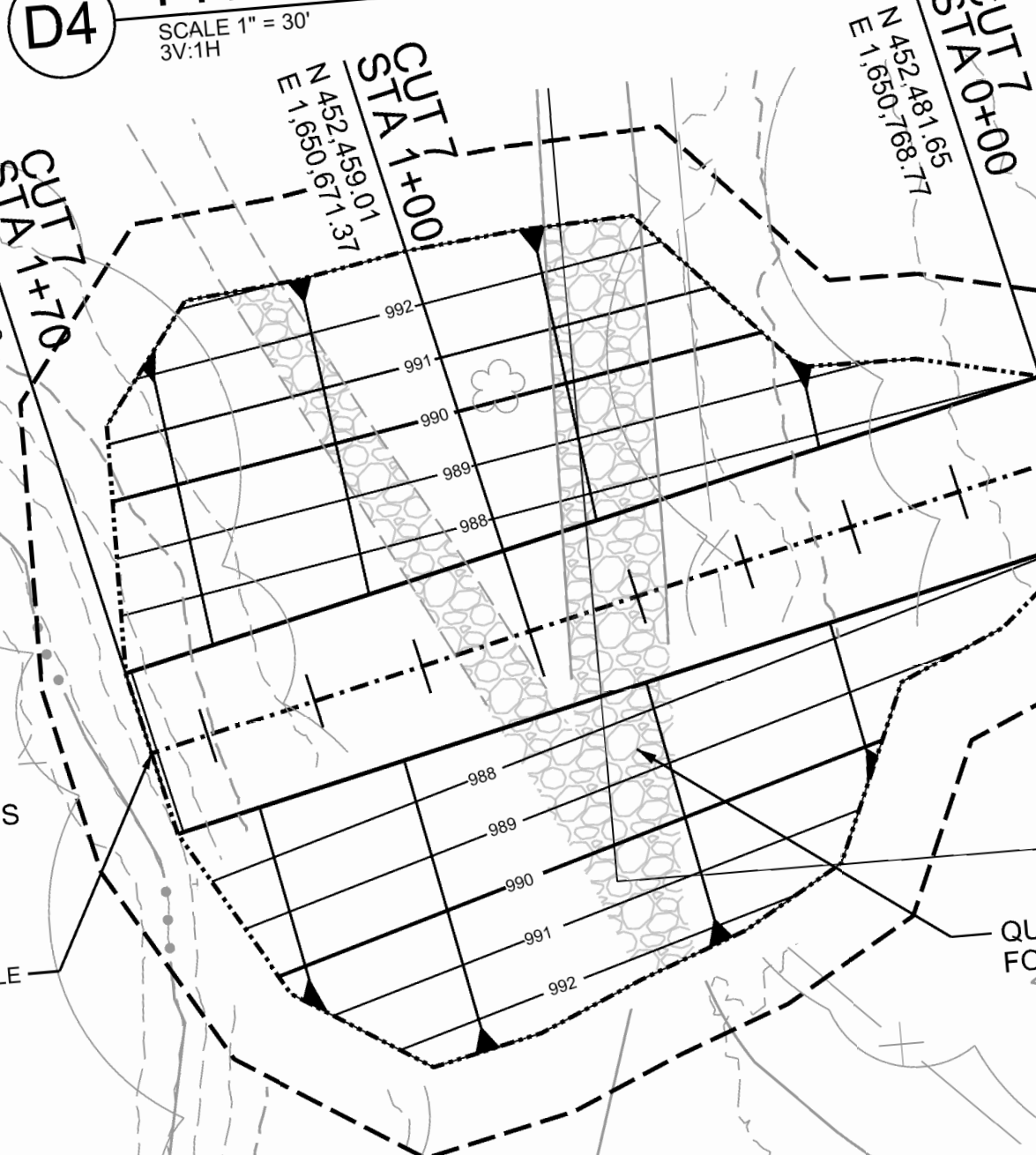
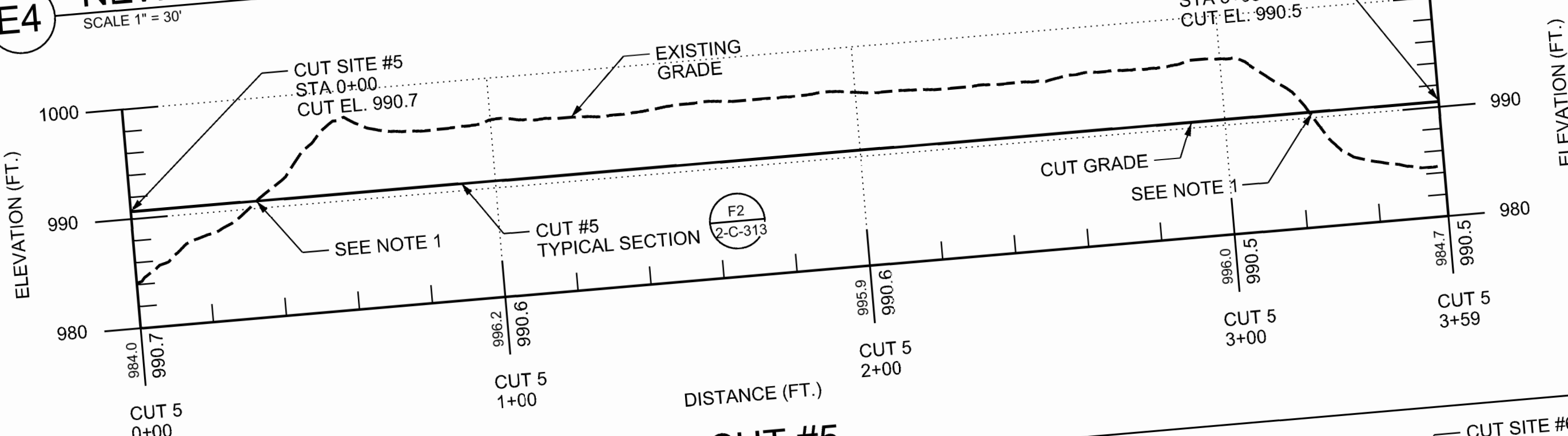
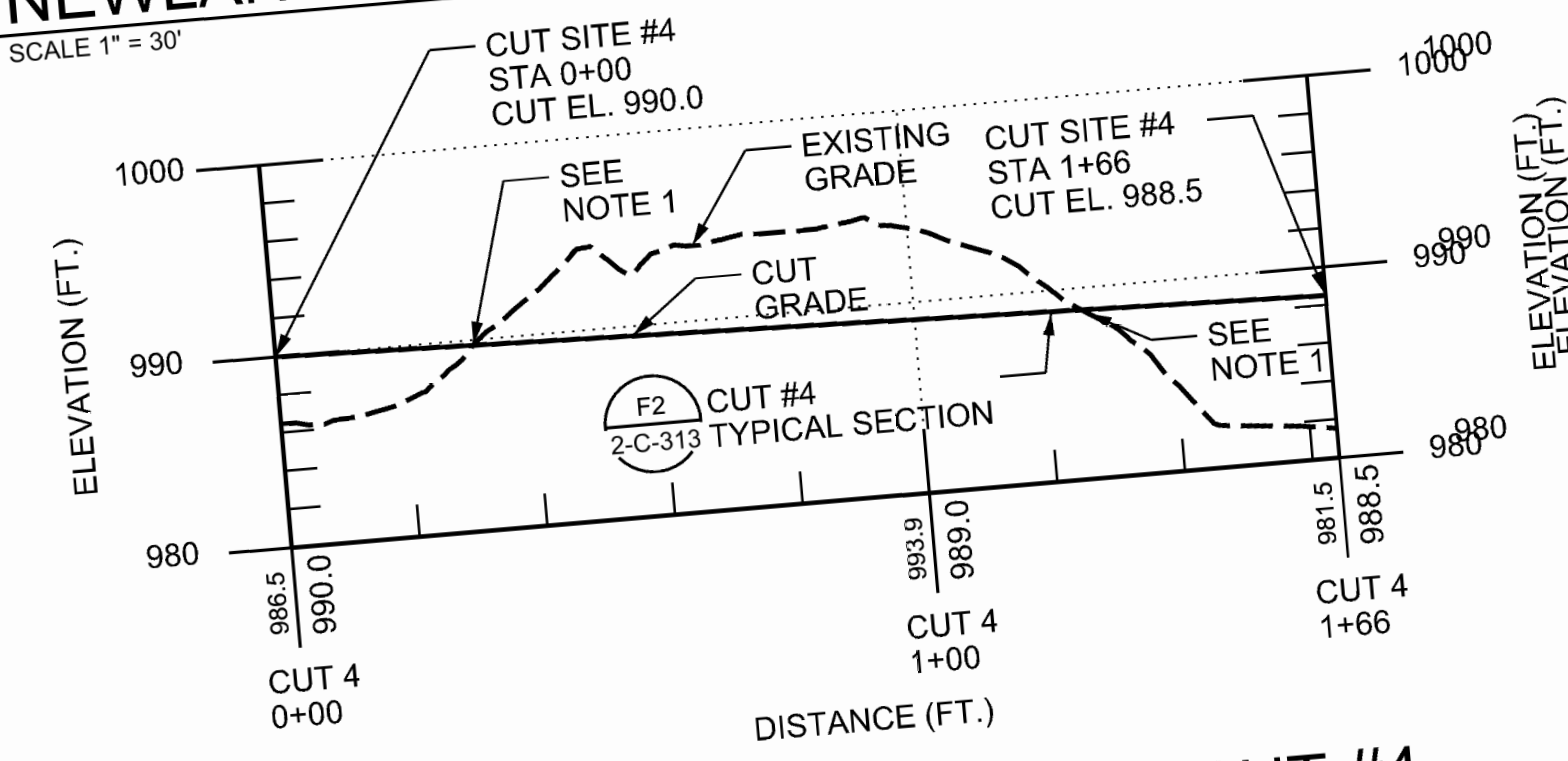
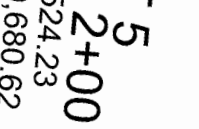
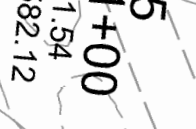
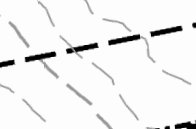
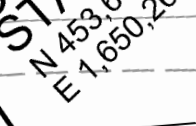
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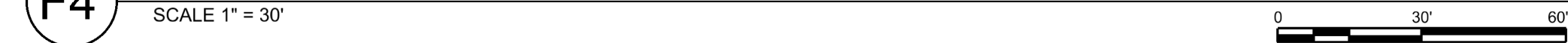
--- CONSTRUCTION LIMITS
 — CUT BOTTOM
 - - - - - CUT TOP

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U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
	DWN BY: J. B. BRETT	SOLICITATION NO.:
	APP'D BY: G. KATO	CONTRACT NO.:
	SUBMITTED BY: ANNA	TITLE NUMBER: DE 4-109

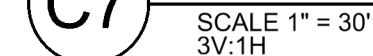
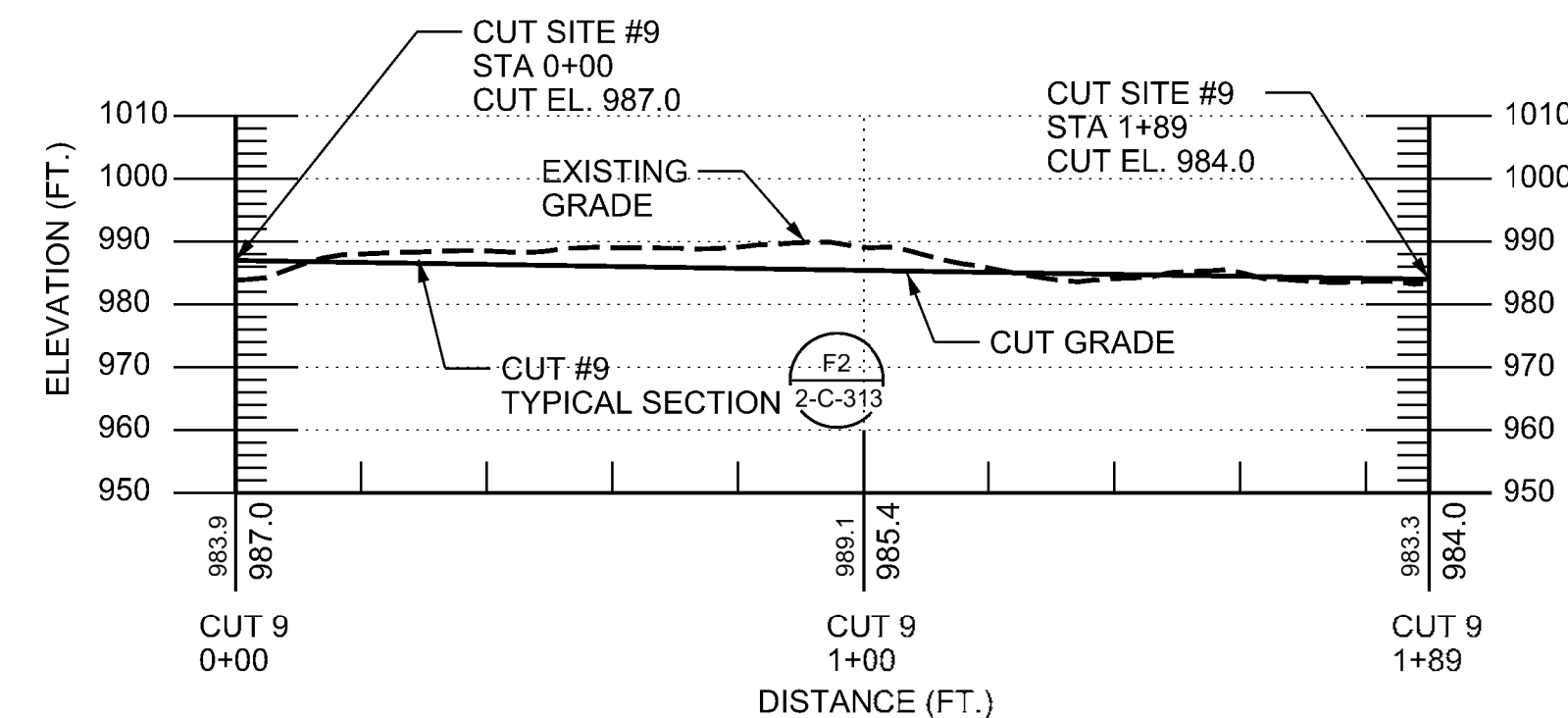
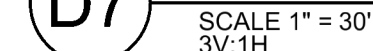
YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON
NEWLAND PONDS FLOODPLAIN GRADING
CUT SITES #4, 5, 6 AND 7





The diagram illustrates the cross-section of CUT #8 at STA 0+00. The vertical axis represents ELEVATION (FT.) from 980 to 1000. The horizontal axis represents DISTANCE (FT.) along the road alignment.

- CUT SITE #8**: Indicated by a triangle pointing to the top of the embankment.
- STA 0+00**: Stationing label for the left side of the section.
- CUT EL. 984.8**: Elevation of the original ground surface at STA 0+00.
- CUT SITE #8**: Indicated by a triangle pointing to the top of the embankment on the right side.
- STA 2+81**: Stationing label for the right side of the section.
- CUT EL. 984.4**: Elevation of the original ground surface at STA 2+81.
- EXISTING GRADE**: Represented by a dashed line showing the original ground profile.
- CUT GRADE**: Represented by a solid line showing the proposed road grade.
- A1 CUT #8 2-C-313**: A circular callout containing the text "A1 CUT #8 2-C-313".
- TYPICAL SECTION**: Label for the entire cross-section.
- CUT 8 0+00**, **CUT 8 1+00**, and **CUT 8 1+11**: Labels for specific points along the road alignment.
- ELEVATION (FT.)**: Vertical axis labels on both sides (left and right).
- DISTANCE (FT.)**: Horizontal axis label at the bottom.



SHEET ID
OPT #2
2-CS124

GENERAL NOTES:

1. RIPRAP ALONG SR 24 CROSSDRIKE, DID #1 LEVEE AND KOA LEVEE CAN BE TEMPORARILY STORED IN AREAS INDICATED.



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DATE	
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ISSUE DATE: 31 MAY 2022	
SOLICITATION NO.:	
CONTRACT NO.:	
FILE NUMBER: D-8-4-109	

DESIGNED BY: L. FORD	
DWN BY: J. BARRETT	
CKD BY: G. KATO	
SUBMITTED BY: STEPHANIE McKENNA	
SIZE: ANSI D	

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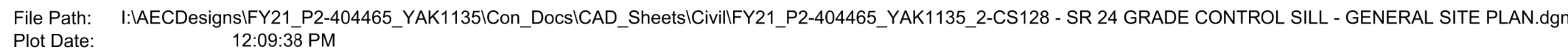
YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	
SR 24 GRADE CONTROL SILL EXISTING SITE PLAN	

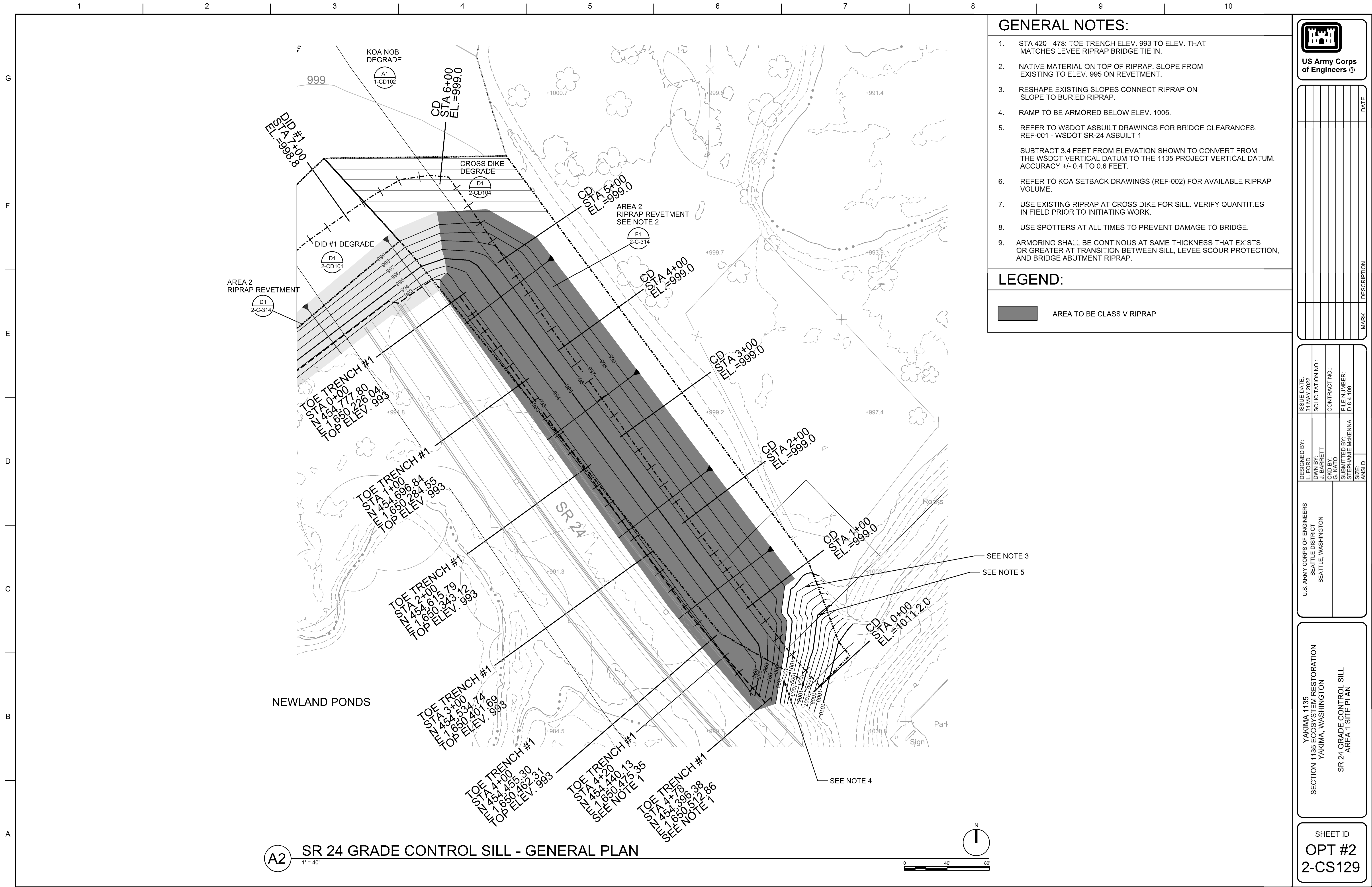
SHEET ID
OPT #2
2-CS127



A1 SR 24 GRADE CONTROL SILL - EXISTING PLAN

1" = 50'





- GENERAL NOTES:
1.

REFER TO WSDOT ASBUILT DRAWINGS FOR BRIDGE CLEARANCES.
2.

REFER TO KOA SETBACK DRAWINGS FOR AVAILABLE RIPRAP VOLUME.
3.

USE EXISTING RIPRAP AT CROSS DIKE FOR SILL. VERIFY QUANTITIES IN FIELD PRIOR TO INITIATING WORK.
4.

USE SPOTTERS AT ALL TIMES TO PREVENT DAMAGE TO BRIDGE.
5.

ARMORING SHALL BE CONTINUOUS AT SAME THICKNESS THAT EXISTS OR GREATER AT TRANSITION BETWEEN SILL, LEVEE SCOUR PROTECTION, AND BRIDGE ABUTMENT RIPRAP.

LEGEND:

AREA TO BE CLASS V RIPRAP

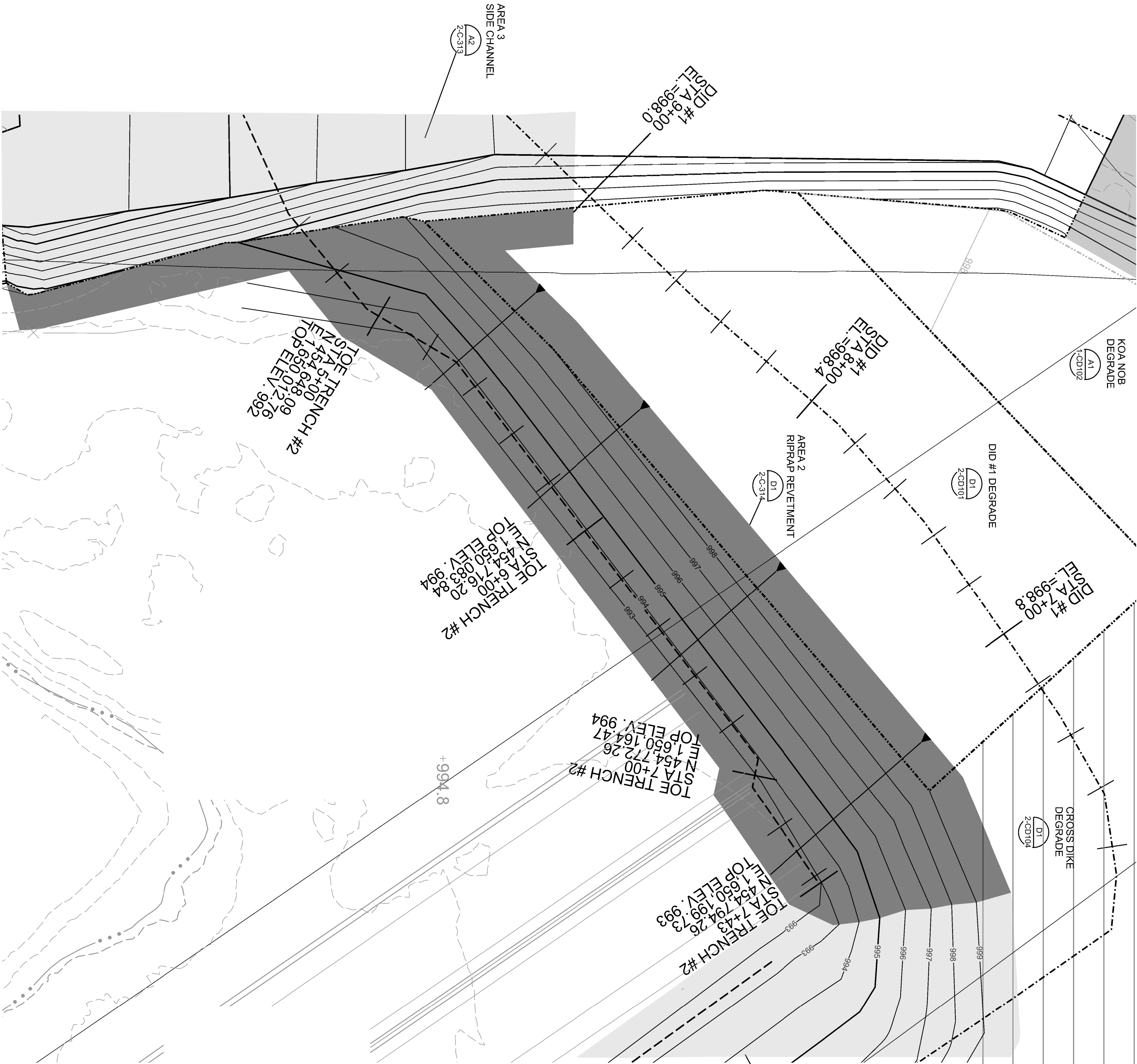
DATE	DESCRIPTION	MARK

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	

YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	
SR 24 GRADE CONTROL SILL AREA 2 SITE PLAN	

SHEET ID OPT #2 2-CS130



A3 SR 24 GRADE CONTROL SILL - AREA 2 SITE PLAN

LEGEND:

AREA TO BE CLASS V RIPRAP



US Army Corps of Engineers ©

MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

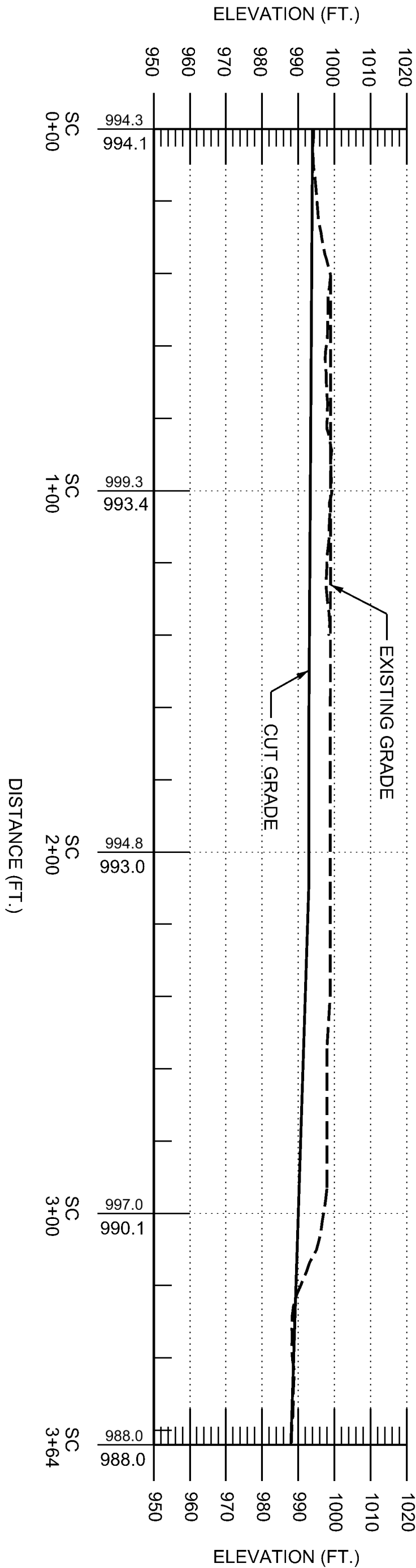
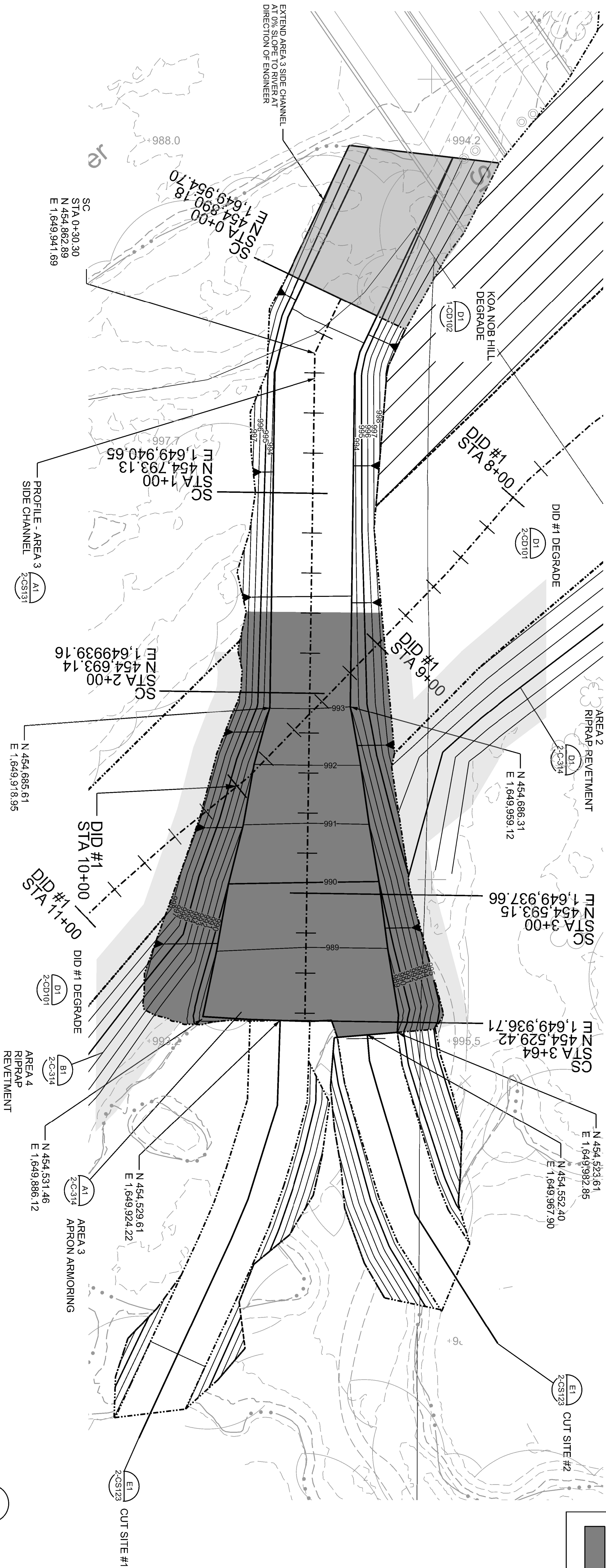
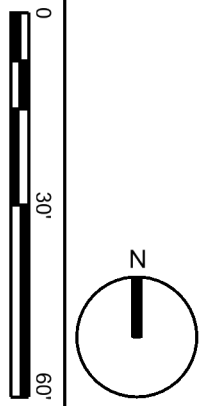
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	SR 24 GRADE CONTROL SILL AREA 3 SIDE CHANNEL SITE PLAN
---	---

SHEET ID OPT #2 2-CS131

D1 SR 24 GRADE CONTROL SILL - AREA 3 SIDE CHANNEL SITE PLAN

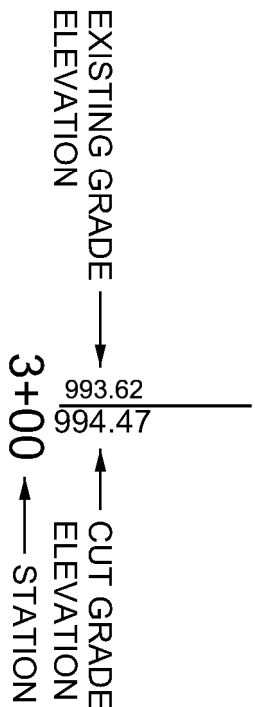
1" = 30'



A1 PROFILE - AREA 3 SIDE CHANNEL STA SC 0+00 TO 3+64

SCALE: 1" = 30'

LEGEND



LEGEND:

AREA TO BE CLASS V RIPRAP



US Army Corps
of Engineers ©

MARK	DESCRIPTION	DATE

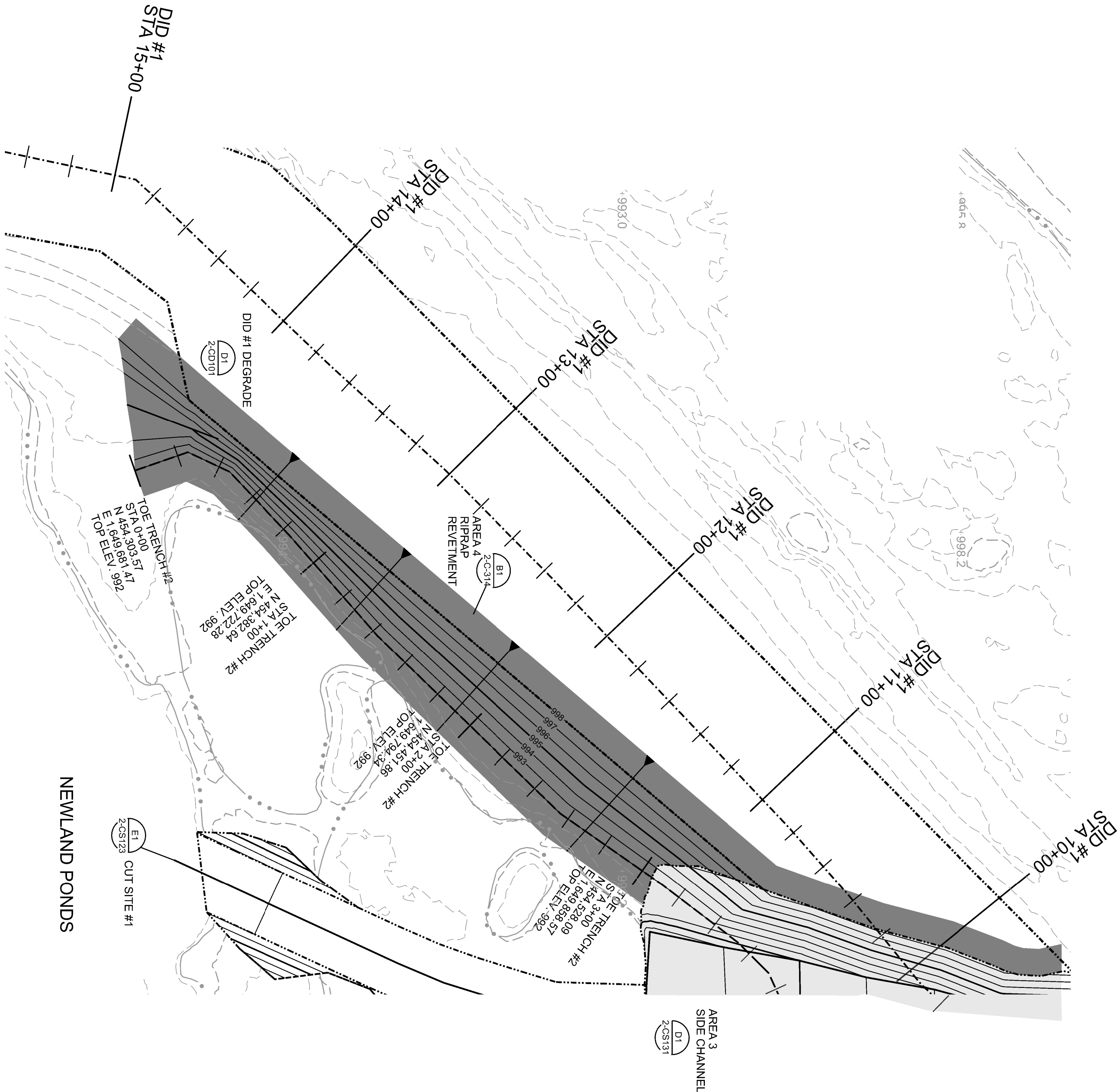
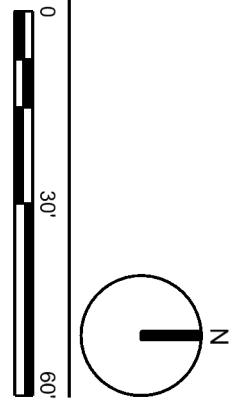
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
---	--

YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	SR 24 GRADE CONTROL SILL AREA 4 SITE PLAN
---	--

SHEET ID OPT #2 2-CS132

A2 SR 24 GRADE CONTROL SILL - AREA 4 SITE PLAN







1. HLA UTILITY SURVEY 104152V-SVBASE REV
DATUM INFORMATION:
HORIZONTAL DATUM :
WASHINGTON STATE PLANE
COORDINATES - SOUTH ZONE
(NAD83/2011)

VERTICAL DATUM:
NAVD88

(CHECKED INTO U.S.A.C.E.
CONTROL SETFOR LIDAR
MAPPING PROVIDED TO HLA
BY U.S.A.C.E.)

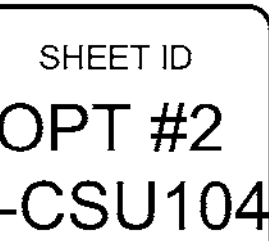
2. PLANIMETRICS SURVEY:
YAKIMA RIVER 1135 STUDY

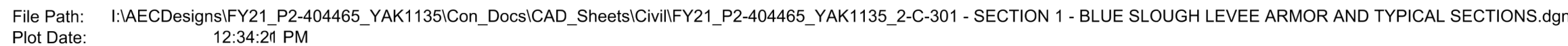
MAP COMPILED FROM AERIAL PHOTOGRAPHY
FLOWN JANUARY 30, 2020

HORIZONTAL CONTROL BASED ON WASHINGTON
COORD. SYSTEM, NAD 83/2011, SOUTH ZONE

VERTICAL CONTROL BASED ON NAVD '88, GEOID 12B.

3. TOPOBATHYMETRIC LIDAR DATA ACQUIRED ON 3/11/2019
PROJECTION: WASHINGTON STATE PLANE SOUTH
HORIZONTAL DATUM: NAD83 (2011)
VERTICAL DATUM: NAVD88 (GEOID 12B)
UNITS: US SURVEY FEET





GENERAL NOTES:

1. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
2. LEVEE EMBANKMENT AND ACROSS RAMP MATERIAL SHALL CONSIST OF SOIL SALVAGED FROM THE SR24 CROSS DIKE AND DID1 LEVEE DEGRADE EXCEPT WHERE OTHERWISE INDICATED.

LEGEND

- VEGETATION FREE ZONE
- LEVEE BENCH
- LEVEE TOE
- WETLAND
- PL — PROPERTY LINE



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DATE	
MARK	DESCRIPTION

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
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CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

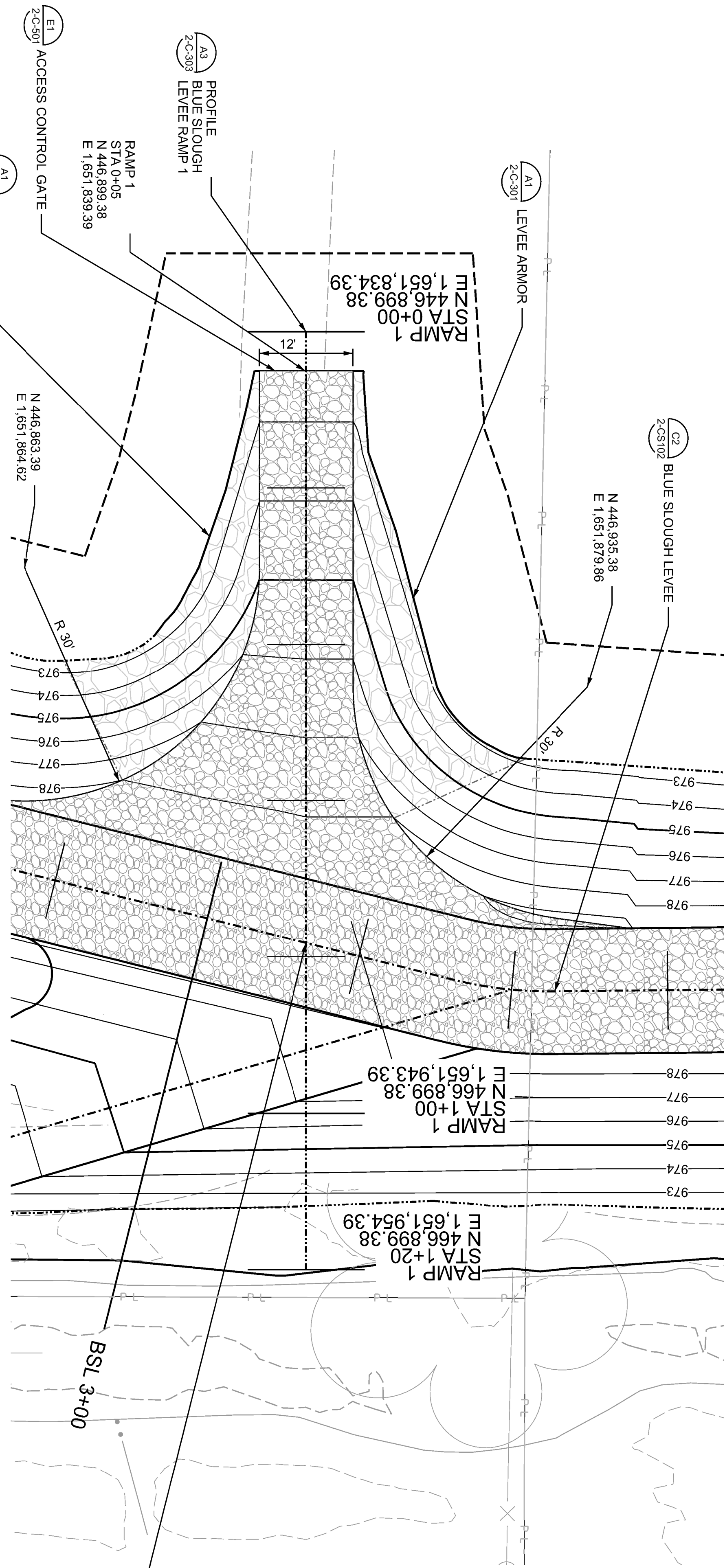
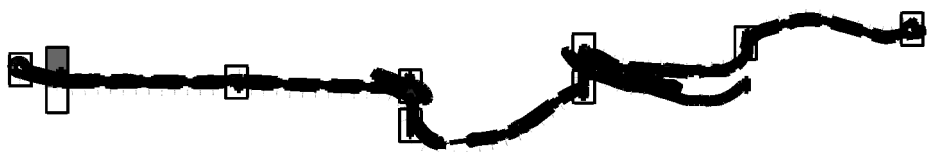
U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

SECTION 2
BLUE SLOUGH LEVEE RAMP 1

SHEET ID
OPT #2
2-C-302

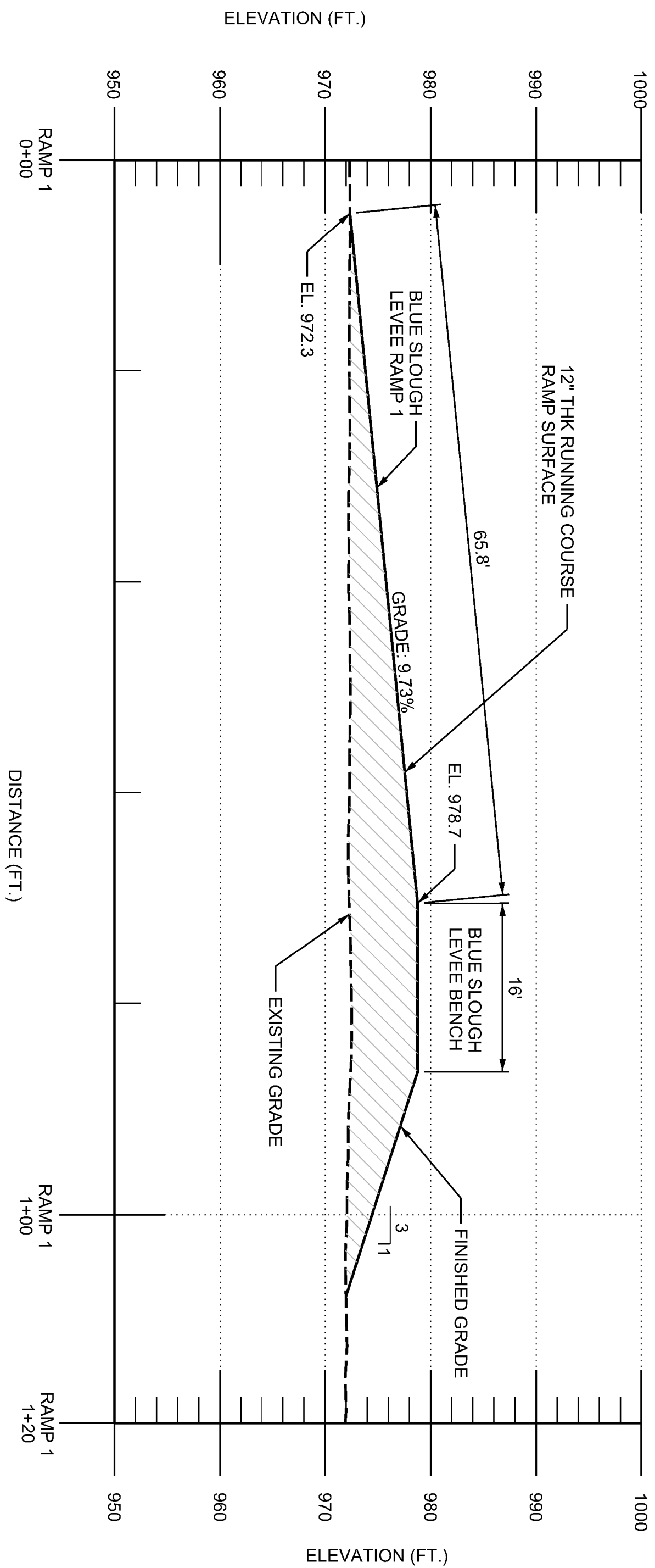
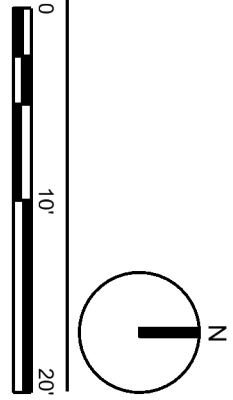
KEY PLAN



PLAN VIEW - BLUE SLOUGH LEVEE RAMP 1

D2

1"=10'

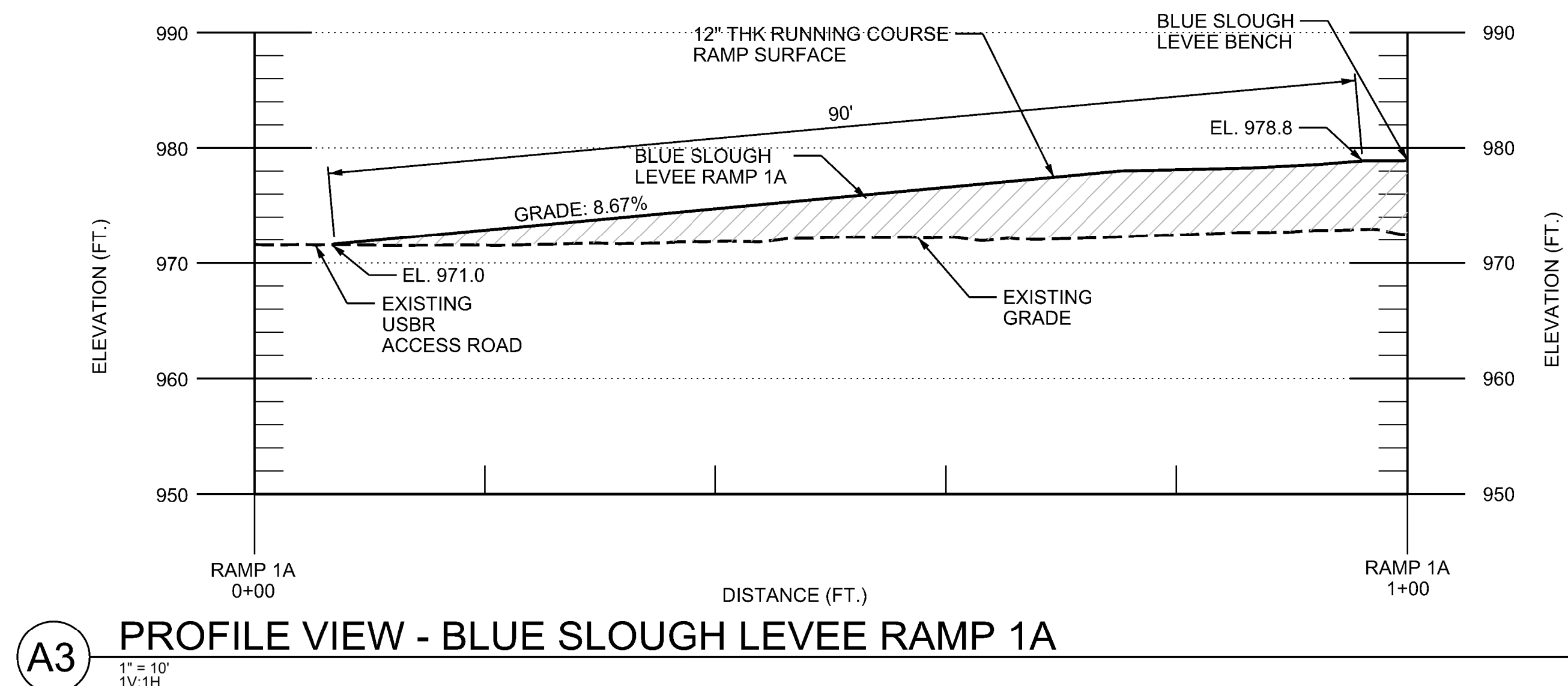
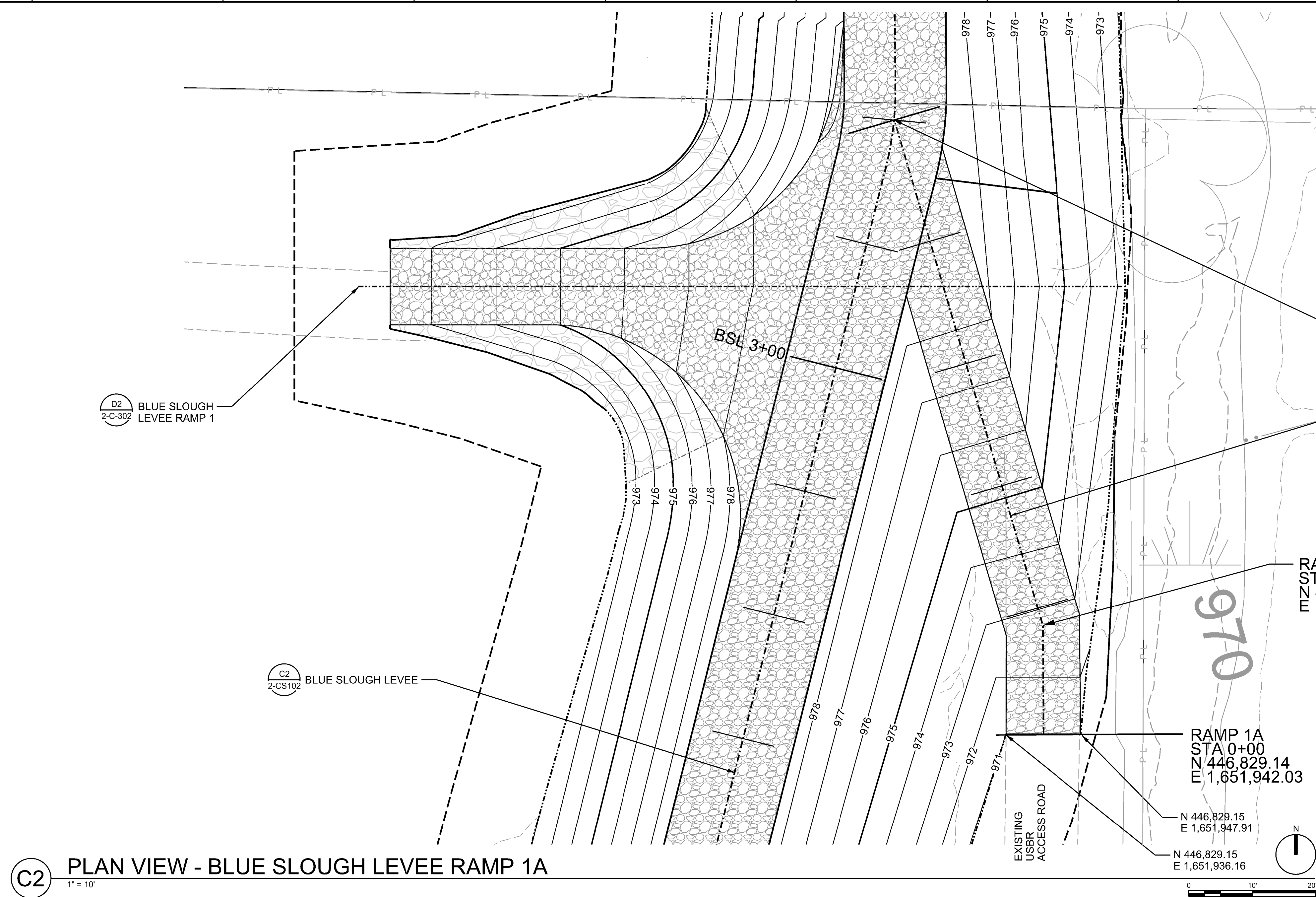


A3

PROFILE VIEW - BLUE SLOUGH LEVEE RAMP 1

1"=10'

1"=4'



GENERAL NOTES:

1. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
2. LEVEE EMBANKMENT AND ACROSS RAMP MATERIAL SHALL CONSIST OF SOIL SALVAGED FROM THE SR24 CROSS DIKE AND DID1 LEVEE DEGRADE EXCEPT WHERE OTHERWISE INDICATED.

LEGEND

- | | |
|-----------|----------------------|
| ---- | VEGETATION FREE ZONE |
| ===== | LEVEE BENCH |
| -.-.-.-.- | LEVEE TOE |
| ----- | WETLAND |
| — PL — | PROPERTY LINE |

— BLOUGH SLOUGH
RAMP 1A INTERSECTS
BLUE SLOUGH LEVEE
AT STA BSL 3+40.0
N 446,925.65
E 1,651,918.61

PROFILE
BLUE SLOUGH
LEVEE RAMP 1A

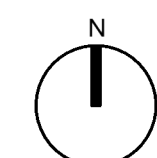
A3
2-C-303

— RAMP 1A
STA 0+16
N 446,846.14
E 1,651,941.93

— RAMP 1A
STA 0+00
N 446,829.14
E 1,651,942.03

— N 446,829.15
E 1,651,947.91

— N 446,829.15
E 1,651,936.16



KEY PLAN



US Army Corps
of Engineers ®

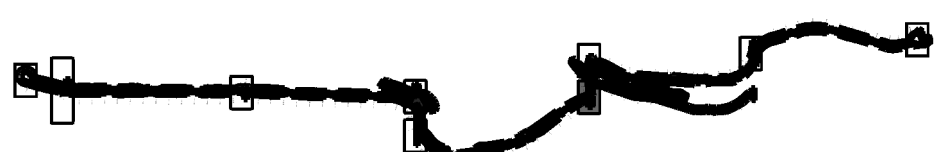
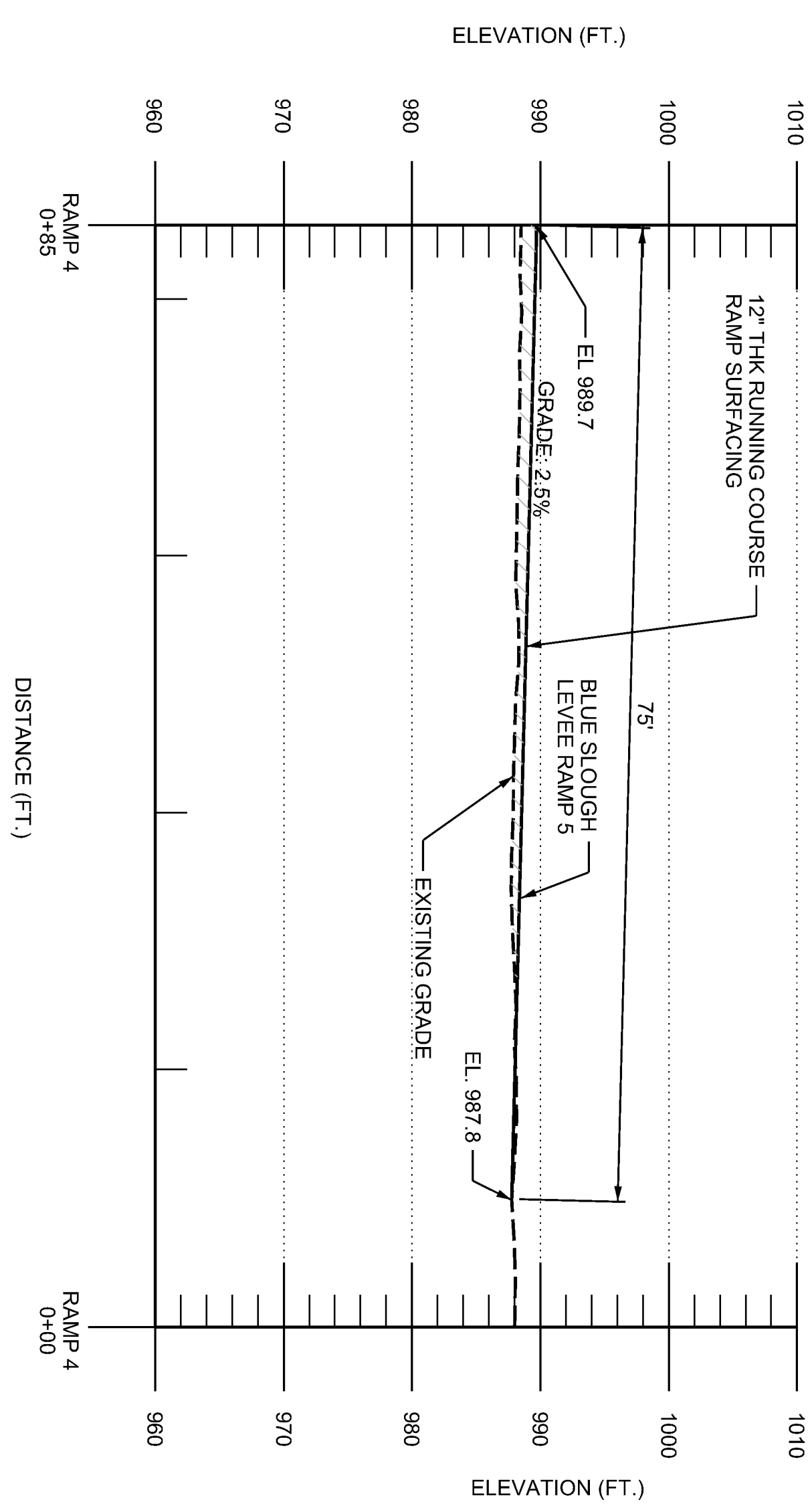
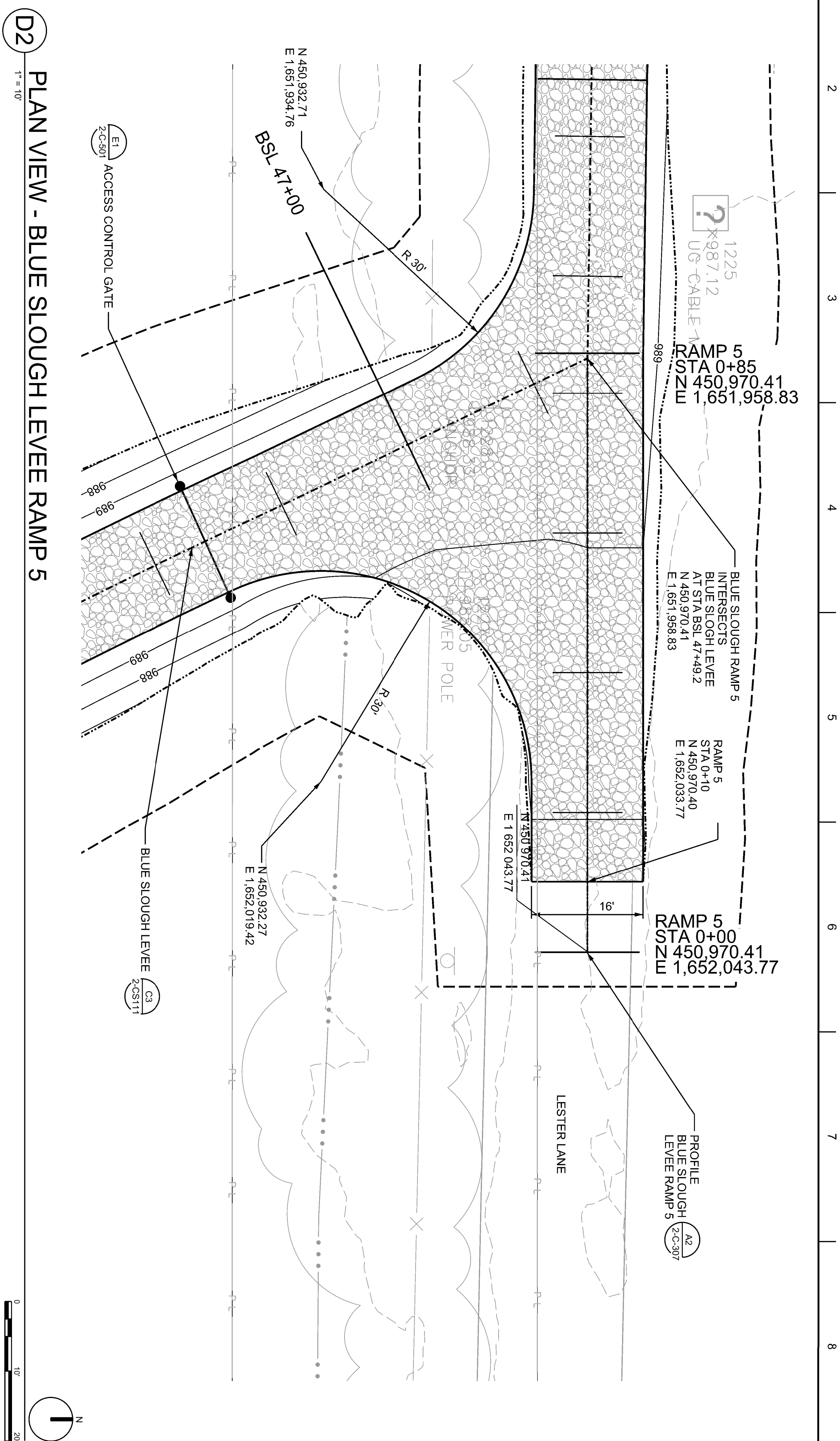
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U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
	DRAWN BY: K. BARRETT	SOLICITATION NO.:
	CHECKED BY: G. KATO	CONTRACT NO.:
	SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-9-4-109
	SIZE: ANSI D	

SECTION 1135 YAKIMA T135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

SECTION 3
BLUE SLOUGH LEVEE RAMP 1A

SHEET ID
OPT #2
2-C-303



GENERAL NOTES:

1. GENERAL SITE UTILITIES PLAN 2 - BLUE SOUGH LEVEE - LESTER LANE. SEE SHEET 2-CSU102
2. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
3. LEVEE EMBANKMENT AND ACROSS RAMP MATERIAL SHALL CONSIST OF SOIL SALVAED FROM THE SR2 CROSS DITCH AND DID NOT LEVEE DEGRADE EXCEPT WHERE OTHERWISE INDICATED.

LEGEND

- VEGETATION FREE ZONE
 --- LEVEE BENCH
 LEVEE TOE
 - - - - - BLUE SLOUGH
 --- PL --- PROPERTY LINE

MARK	DESCRIPTION	DATE

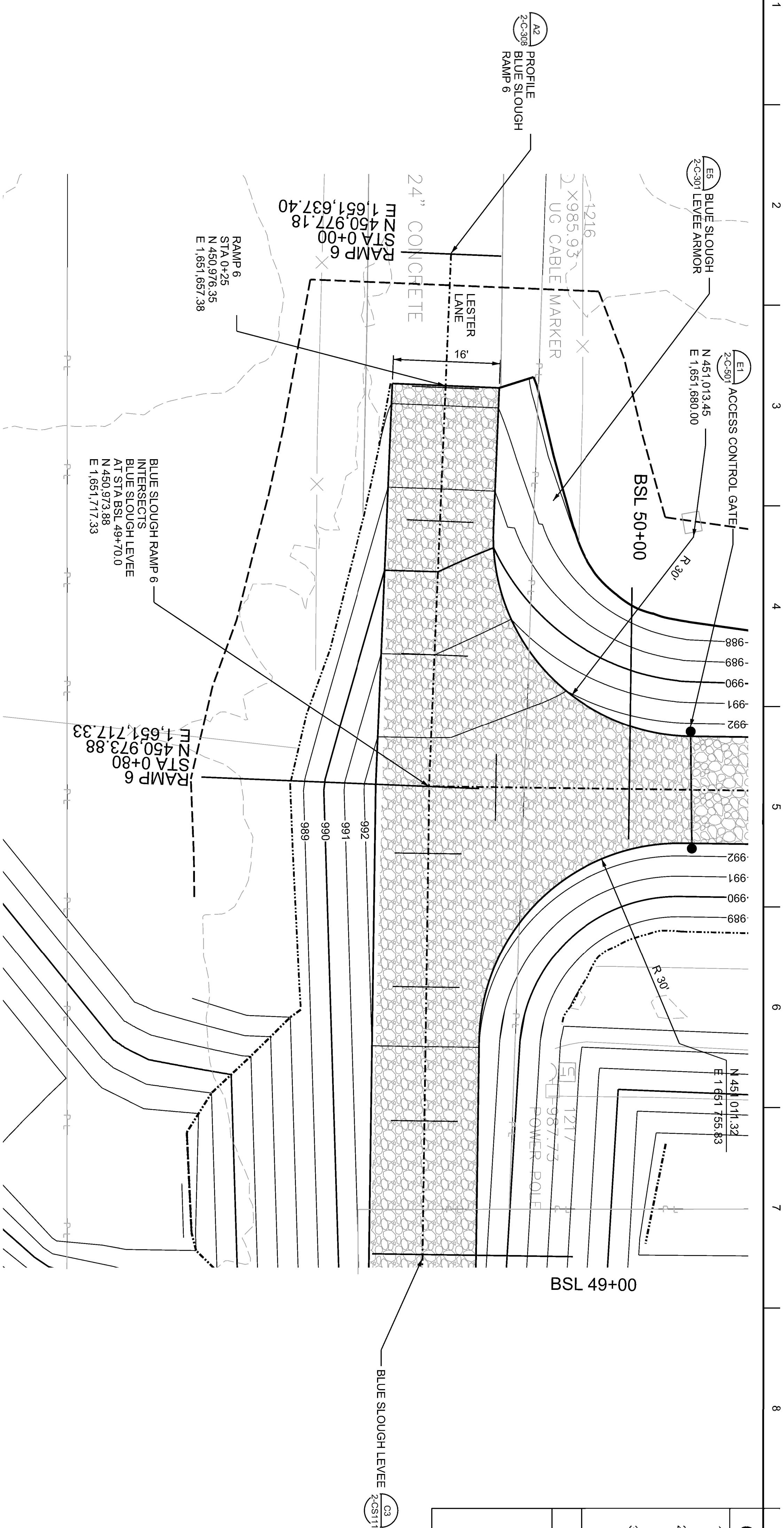
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

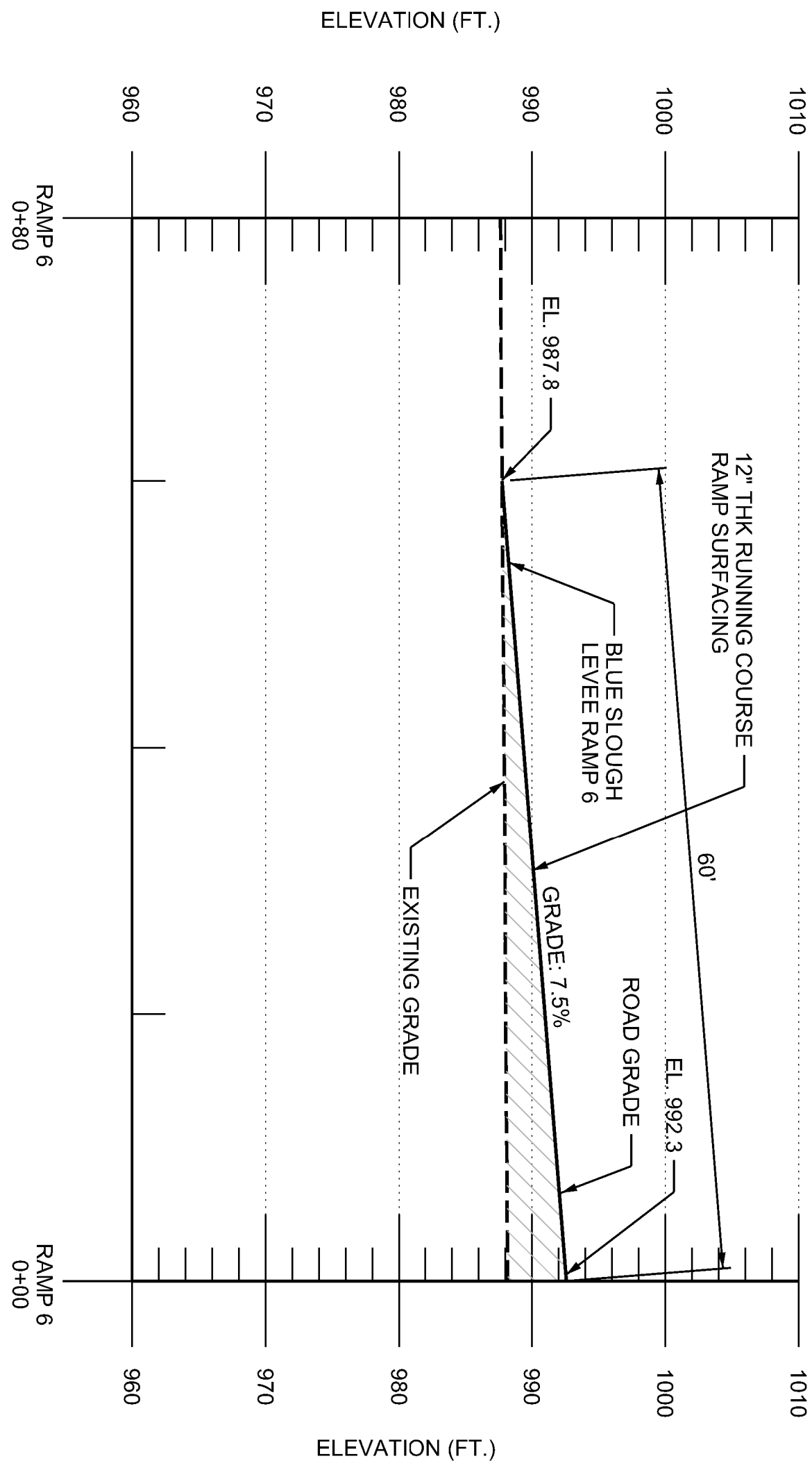
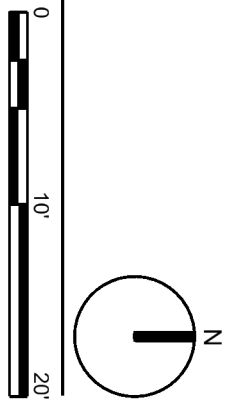
YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

SECTION 7
BLUE SLOUGH LEVEE RAMP 5

SHEET ID
OPT #2
2-C-307



C2 PLAN VIEW - BLUE SLOUGH LEVEE RAMP 6



A2 PROFILE VIEW - BLUE SLOUGH LEVEE RAMP 6

GENERAL NOTES:

- GENERAL SITE UTILITIES PLAN 2 - BLUE SOUGH LEVEE - LESTER LANE. SEE SHEET 2-C-302
- ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
- LEVEE EMBANKMENT AND ACROSS RAMP MATERIAL SHALL CONSIST OF SOIL SALVAGED FROM THE SR24 CROSS DIKE AND DID1 LEVEE DEGRADE EXCEPT WHERE OTHERWISE INDICATED.

LEGEND

- VEGETATION FREE ZONE
- LEVEE BENCH
- LEVEE TOE
- BLUE SLOUGH
- PL — PROPERTY LINE



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MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
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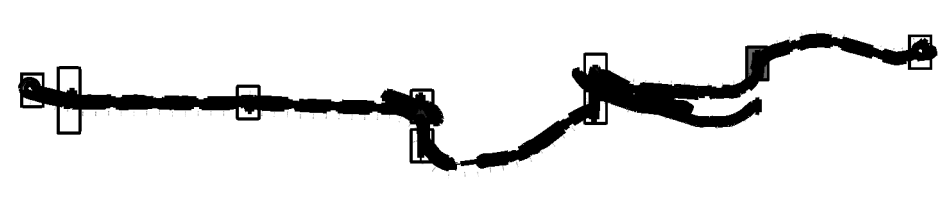
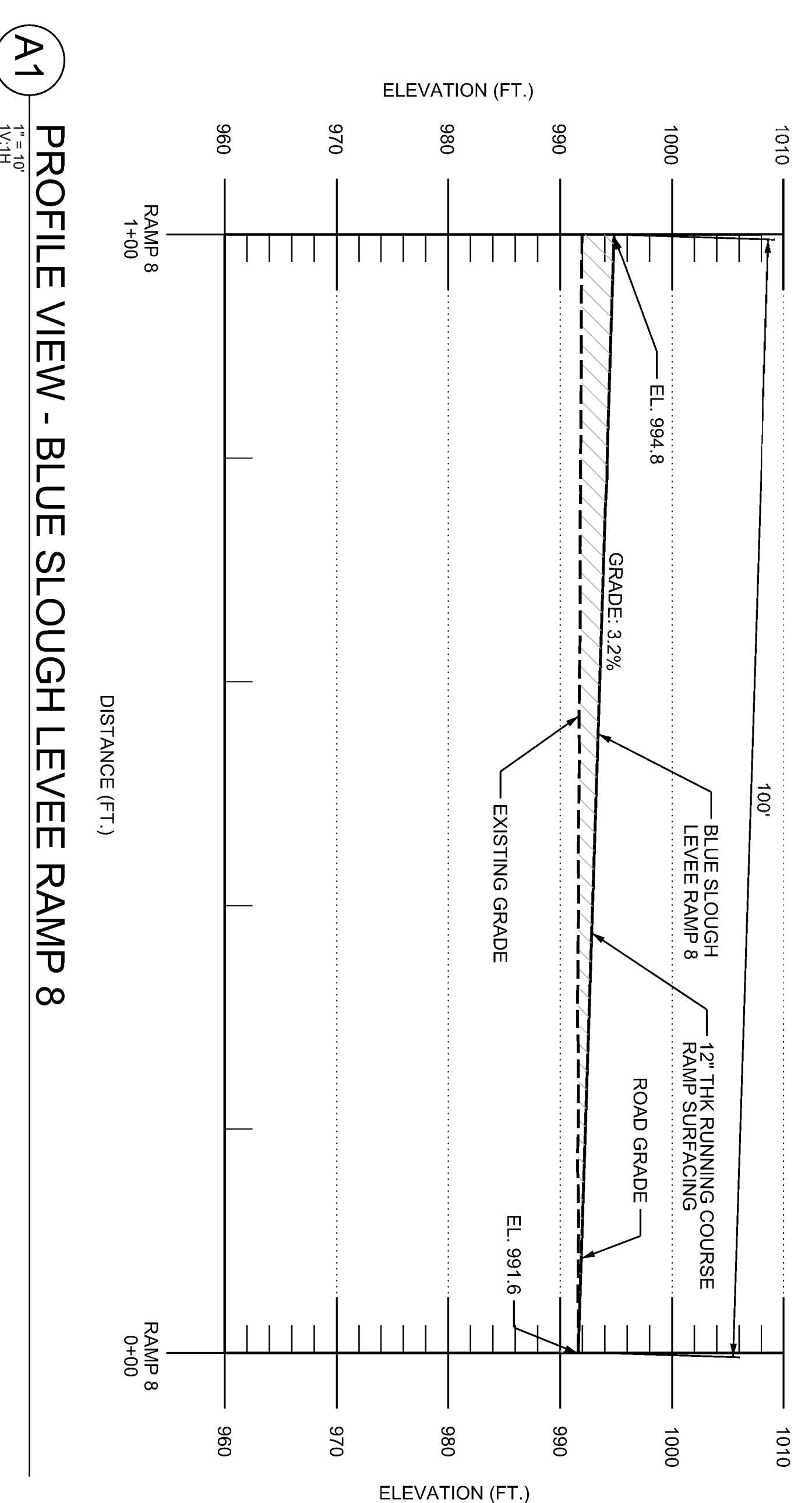
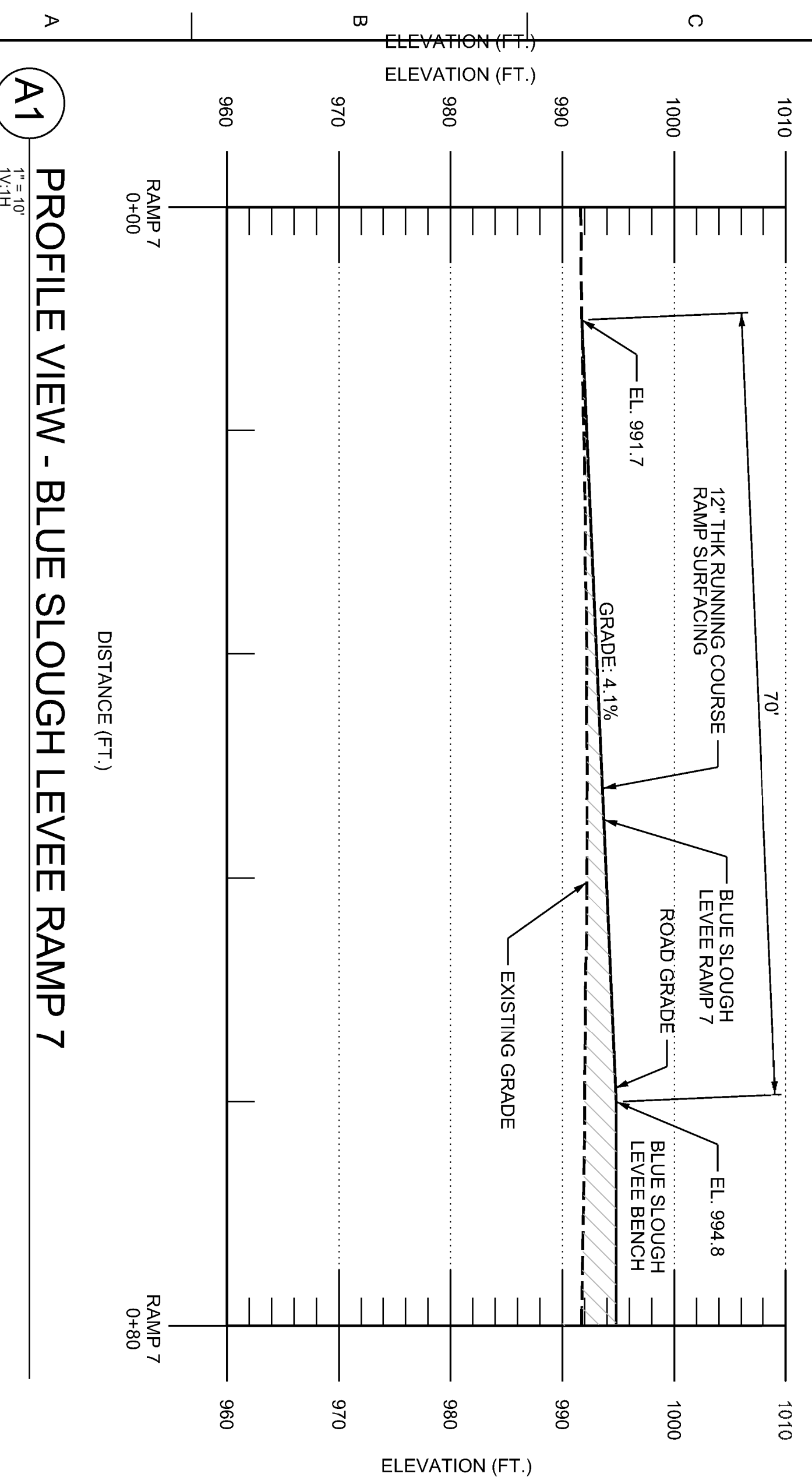
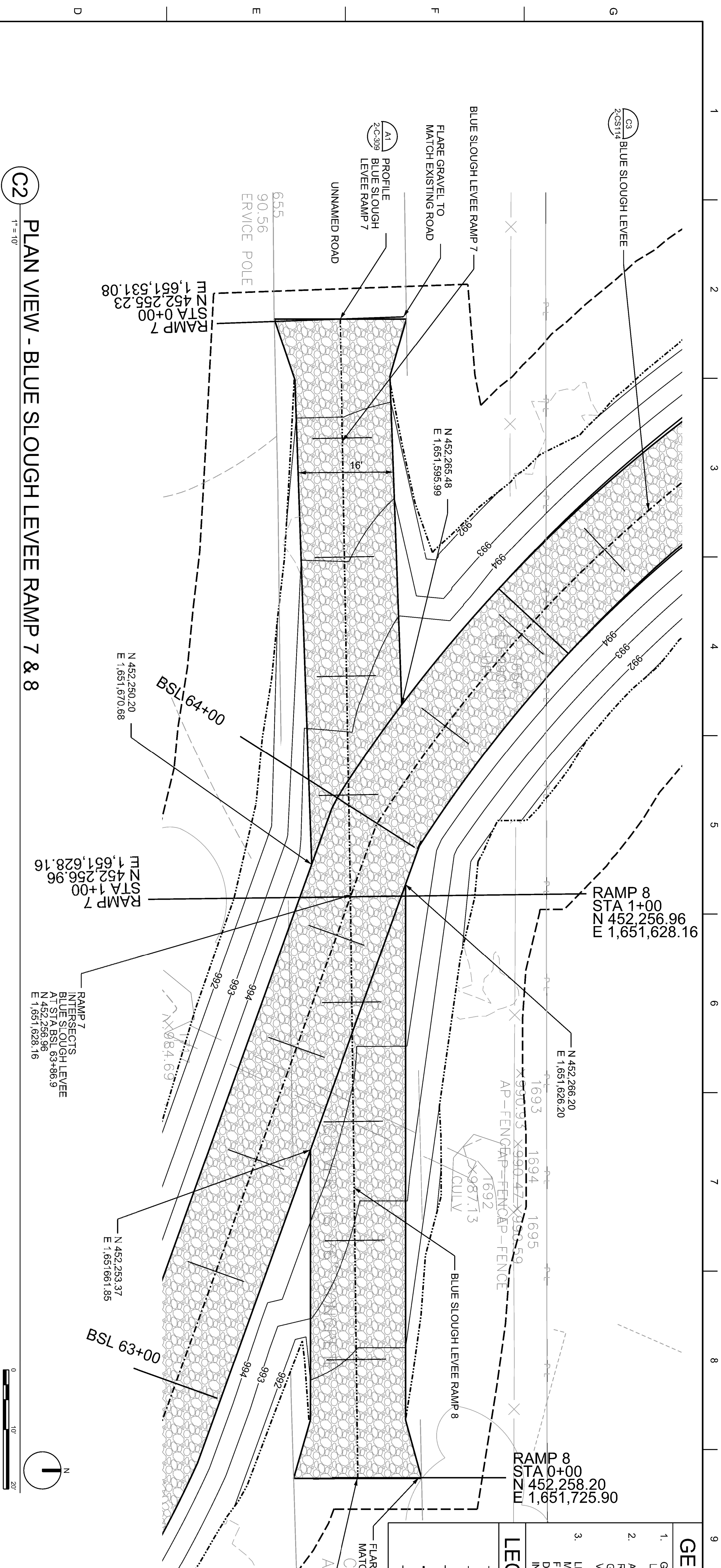
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	SECTION 8 BLUE SLOUGH LEVEE RAMP 6
---	---------------------------------------

KEY PLAN



SHEET ID
OPT #2
2-C-308



- # GENERAL NOTES:
1. GENERAL SITE UTILITIES PLAN 1 - BLUE SOUGH LEVEE - UNNAMED ROAD. SEE SHEET 2-CSU101
 2. ALL EXISTING TREES AND SHRUBS ARE TO BE REMOVED IN THE VEGETATION FREE ZONE. GRASSES IN UNDISTURBED AREAS WITHIN THE VEGETATION FREE ZONE MAY REMAIN.
 3. LEVEE EMBANKMENT AND ACROSS RAMP MATERIAL SHALL CONSIST OF SOIL SALVAGED FROM THE SR4 CROSS DIKE AND DID1 LEVEE DEGRADE EXCEPT WHERE OTHERWISE INDICATED.

— — — — — VEGETATION FREE ZONE
 ————— LEVEE BENCH
 - - - - - LEVEE TOE
 - - - - - BLUE SLOUGH
 — PL — PROPERTY LINE

[illegible]

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

ISSUE DATE:	31 MAY 2022
SOLICITATION	
CONTRACT NO	
FILE NUMBER:	D-8-4-109

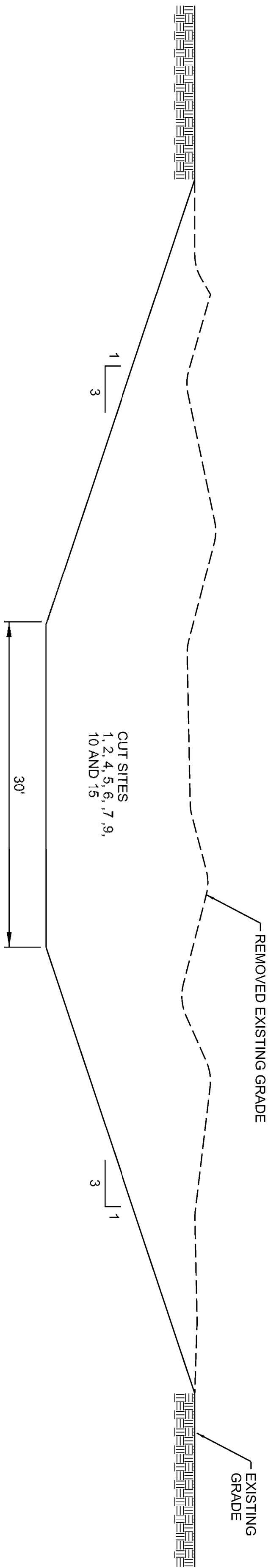
U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

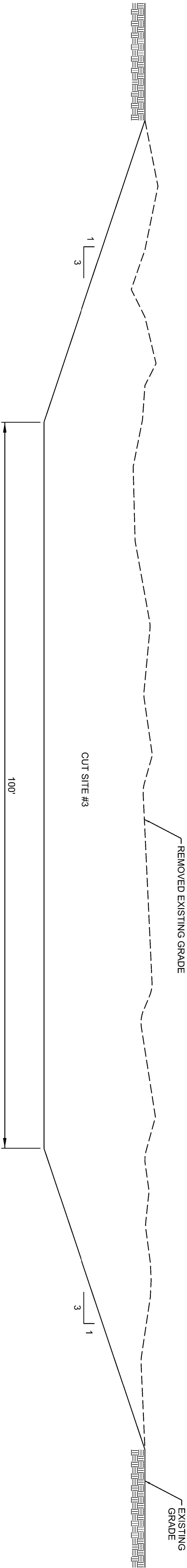
SECTION 9
BLUE SLOUGH LEVEE RAMP 7 & 8

SHEET ID
OPT #2
2-C-309

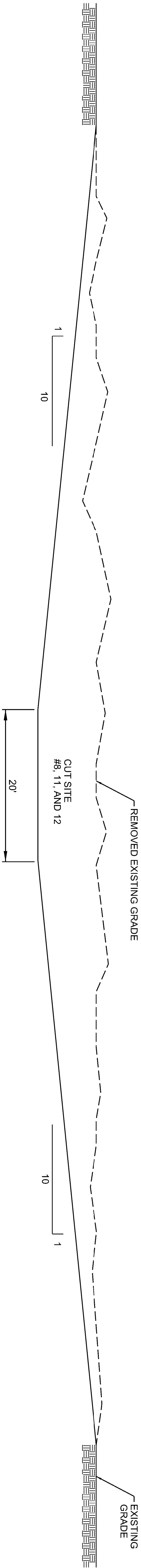
1 2 3 4 5 6 7 8 9 10



F2 NEWLANDS PONDS - CUT SITE #1, 2, 4, 5, 6, 7, 9, 10, AND 15 - TYPICAL SECTIONS
NOT TO SCALE



C1 NEWLANDS PONDS - CUT SITE #3 - TYPICAL SECTION
NOT TO SCALE



A1 NEWLANDS PONDS - CUT SITE #8, 11 AND 12 - TYPICAL SECTION
NOT TO SCALE



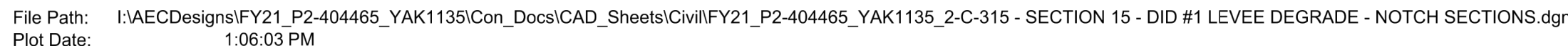
US Army Corps
of Engineers ©

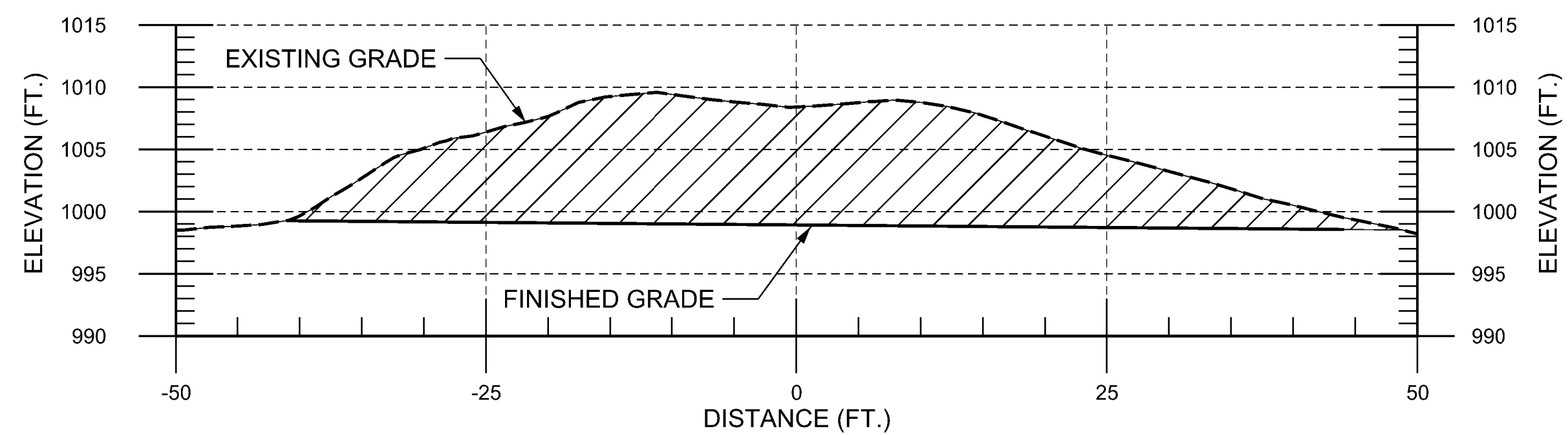
DATE									
MARK	DESCRIPTION								

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON		DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
		DWN BY: J. BARRETT	SOLICITATION NO.:
		CKD BY: G. KATO	CONTRACT NO.:
		SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
		SIZE: ANSI D	

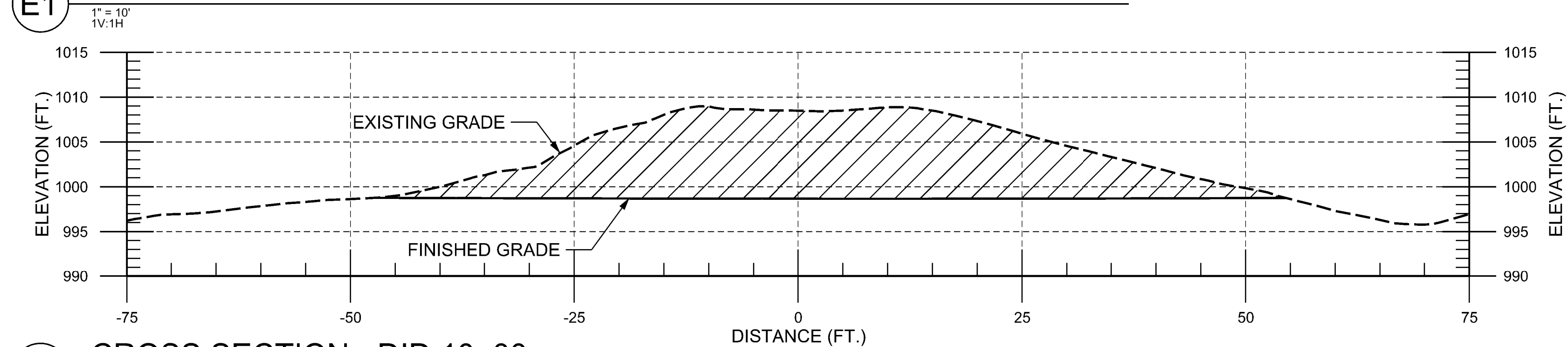
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON
SECTION 13 NEWLANDS FLOODPLAIN GRADING 2 TYPICAL SECTIONS	

SHEET ID
OPT #2
2-C-313

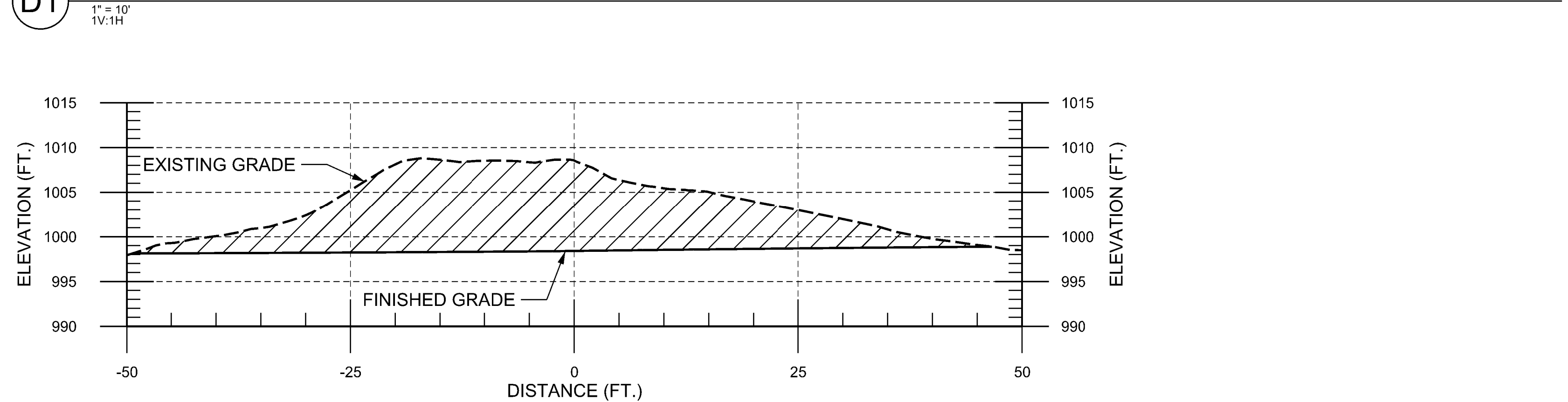




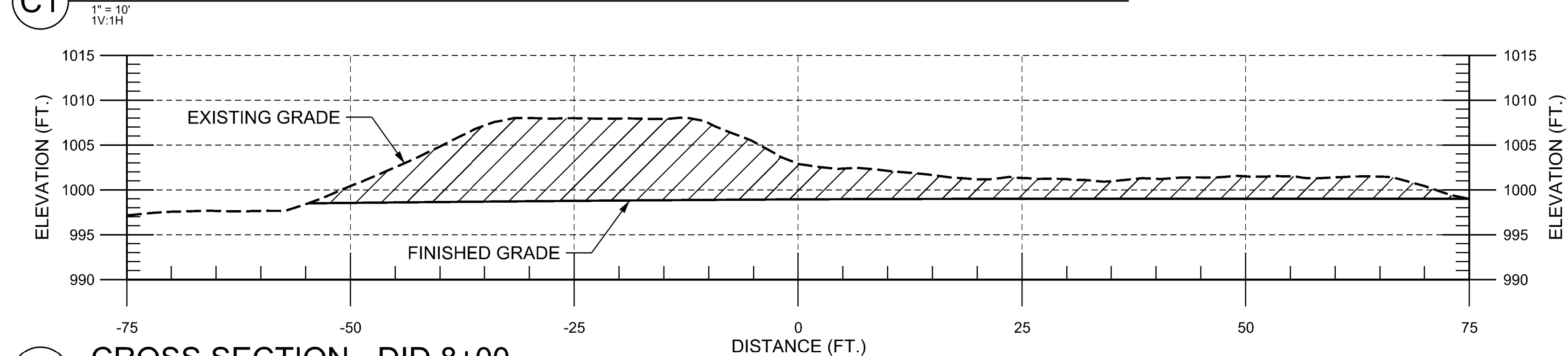
E1 CROSS SECTION - DID 11+00



D1 CROSS SECTION - DID 10+00





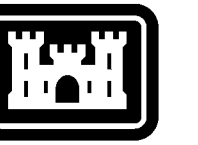
C1 CROSS SECTION - DID 9+00



A1 CROSS SECTION - DID 8+00

LEGEND

 EXISTING GRADE
 FINISHED GRADE
 FILL OR CUT



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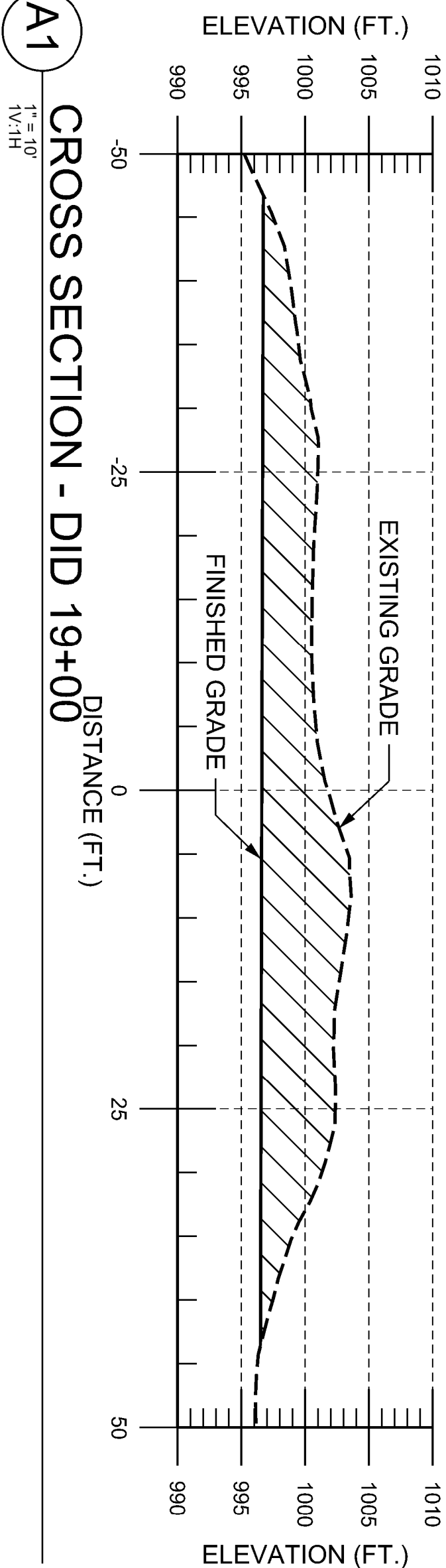
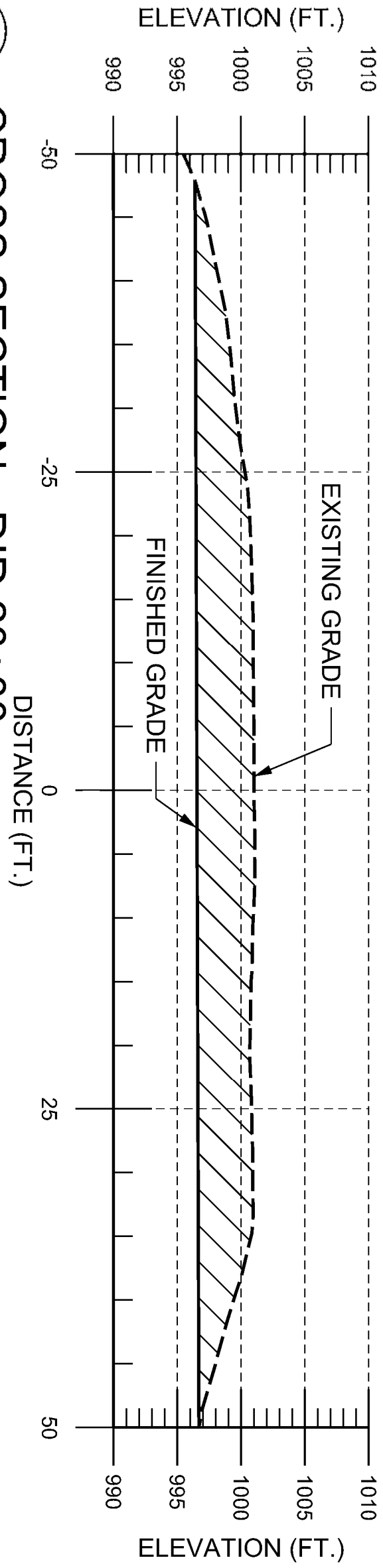
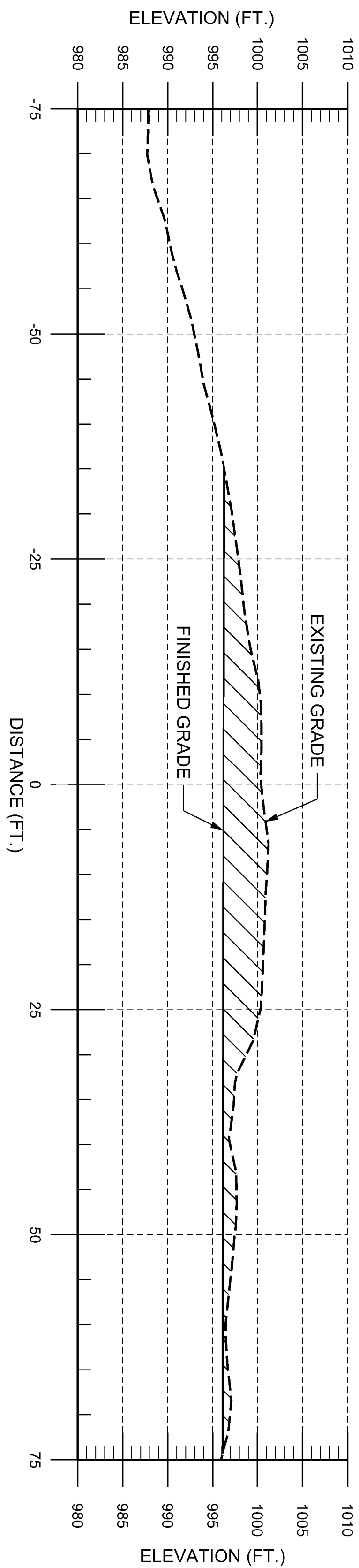
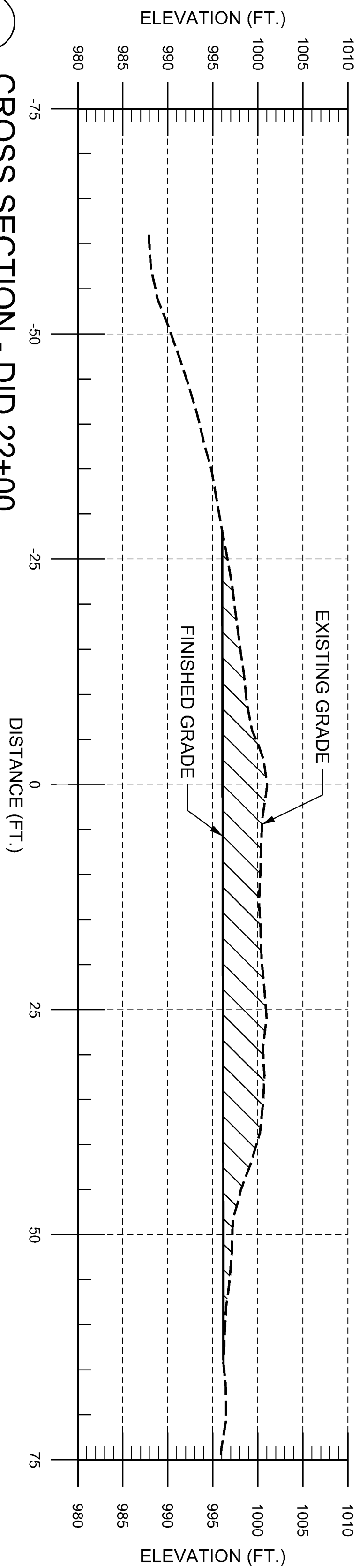
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U.S. AIR FORCE AIRCRAFT ENGINEERS	L. FORD	31 MAY 2022
SEATTLE DISTRICT	DWN BY: D. W. KATZ	
SEATTLE, WASHINGTON	CONTRACT NO.:	
	SUBMITTED BY:	FILE NUMBER:
	STEPHANIE MCKENNA	D-9-4-109
	SIZE:	
	ASST. D	

SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRADATION
CROSS SECTIONS 1

SHEET ID
OPT #2
2-C-317

[illegible]

MARK	DESCRIPTION	DATE

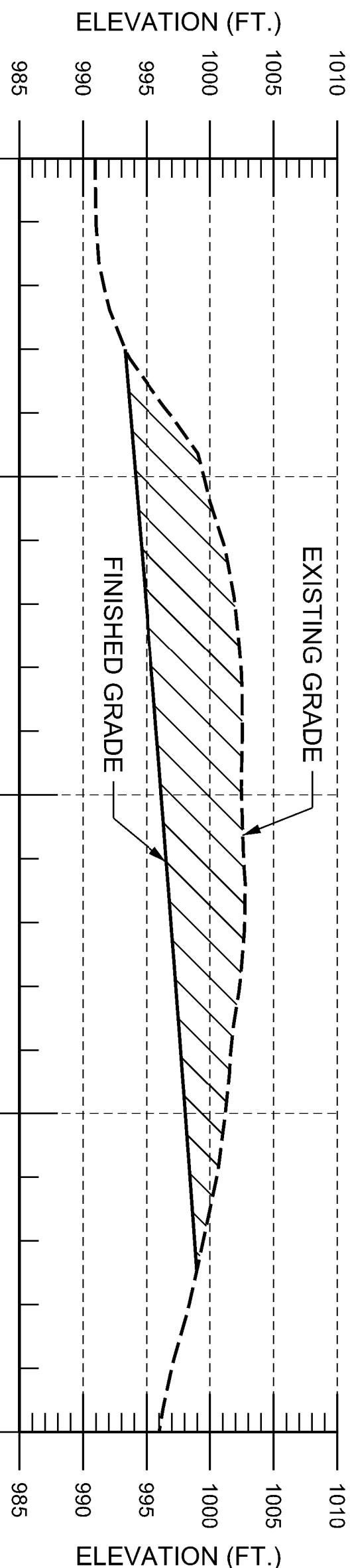
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

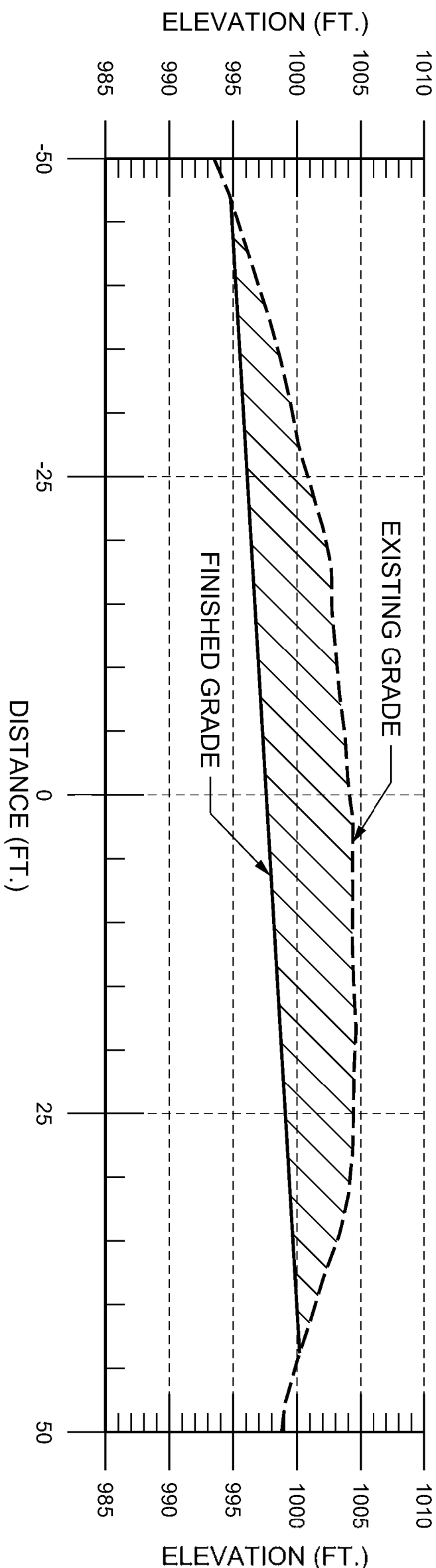
DID #1 LEVEE DEGRADATION
CROSS SECTIONS 3

SHEET ID
OPT #2
2-C-319



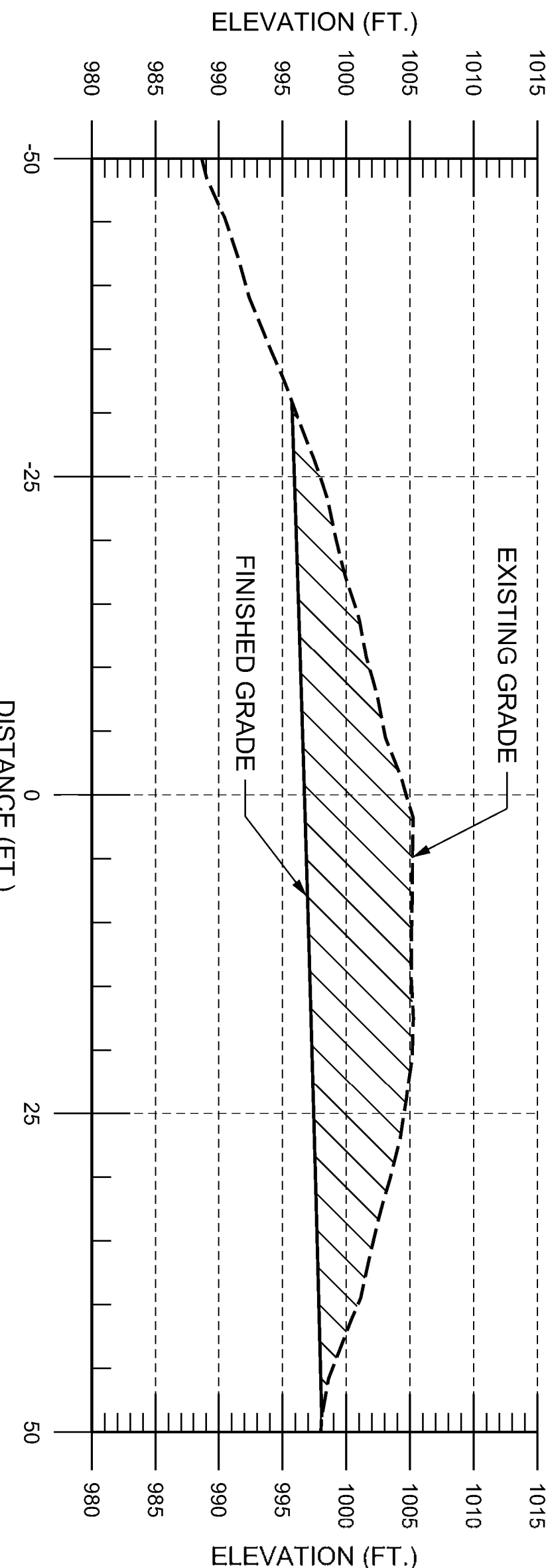
F1 CROSS SECTION - DID 26+00

1"=10'
1/4"=1H'



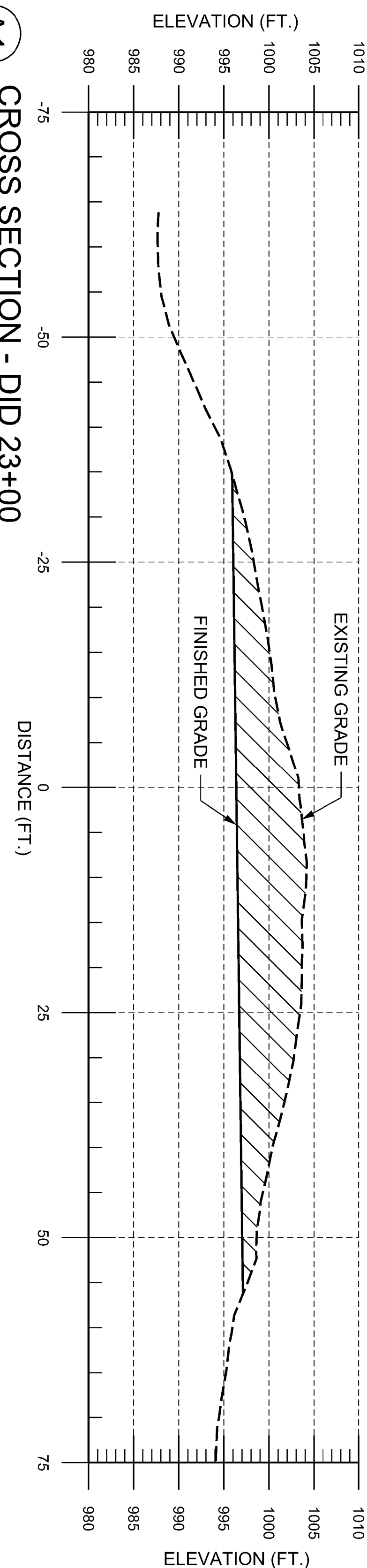
D1 CROSS SECTION - DID 25+00

1"=10'
1/4"=1H'



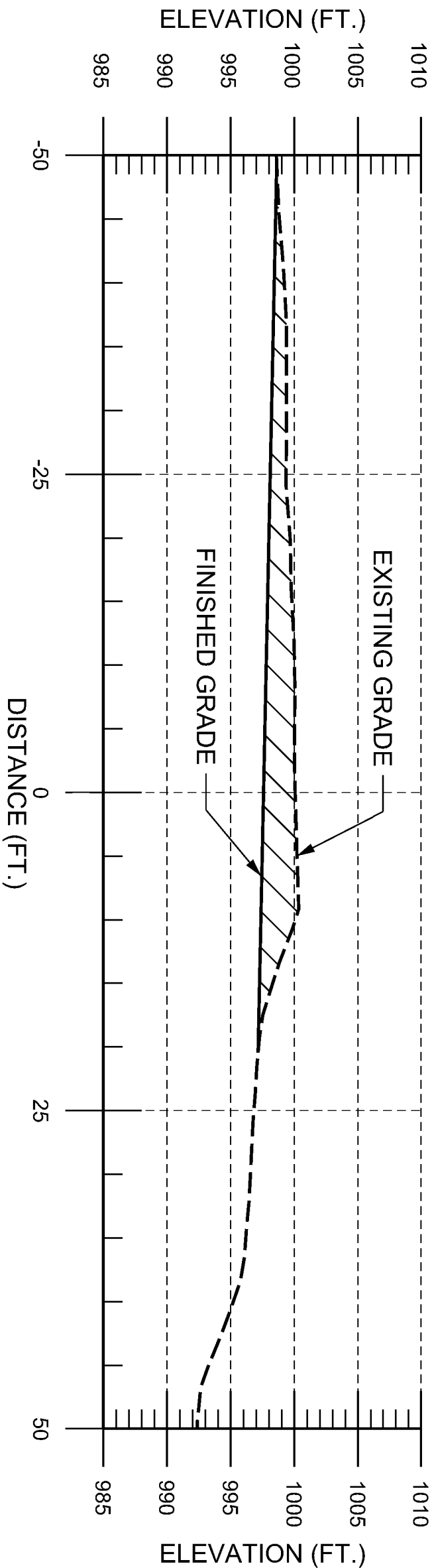
C1 CROSS SECTION - DID 24+00

1"=10'
1/4"=1H'



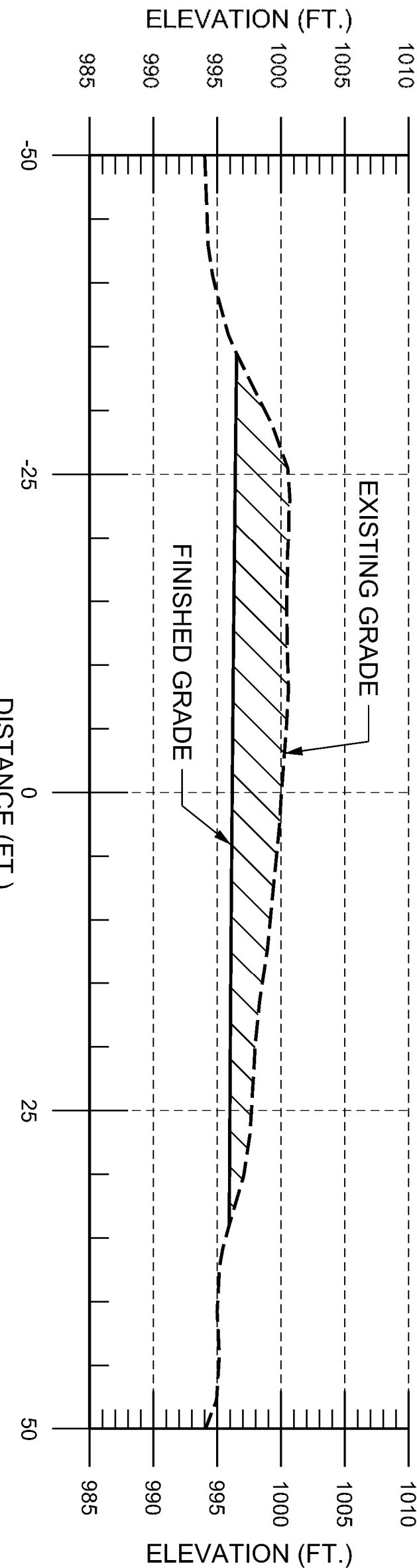
A1 CROSS SECTION - DID 23+00

1"=10'
1/4"=1H'



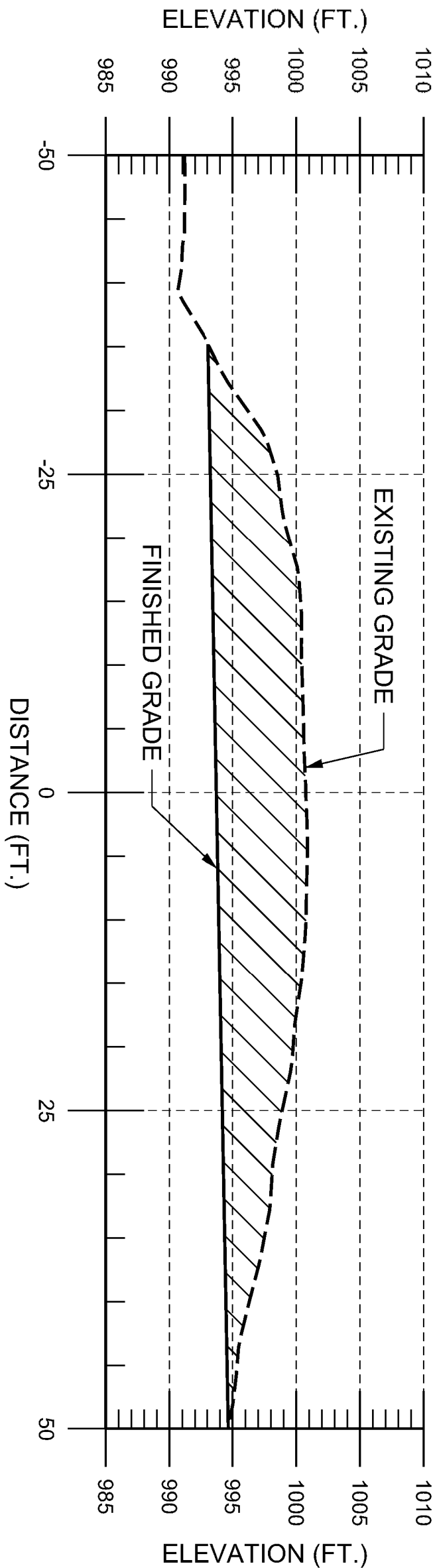
E6 CROSS SECTION - DID 29+00

1"=10'
1/4"=1H'



D6 CROSS SECTION - DID 28+00

1"=10'
1/4"=1H'



C6 CROSS SECTION - DID 27+00

1"=10'
1/4"=1H'

LEGEND

- EXISTING GRADE
- FINISHED GRADE
- FILL OR CUT



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of Engineers ®

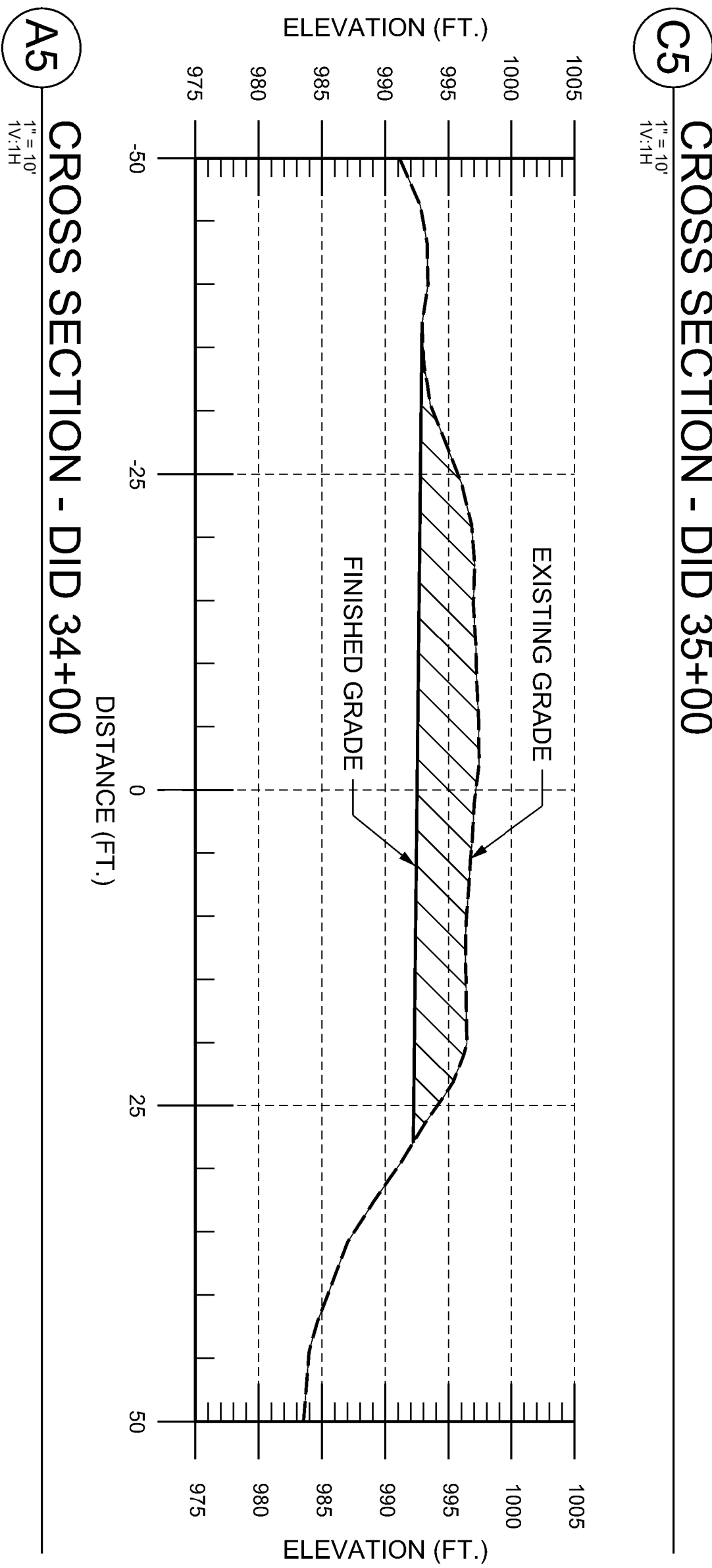
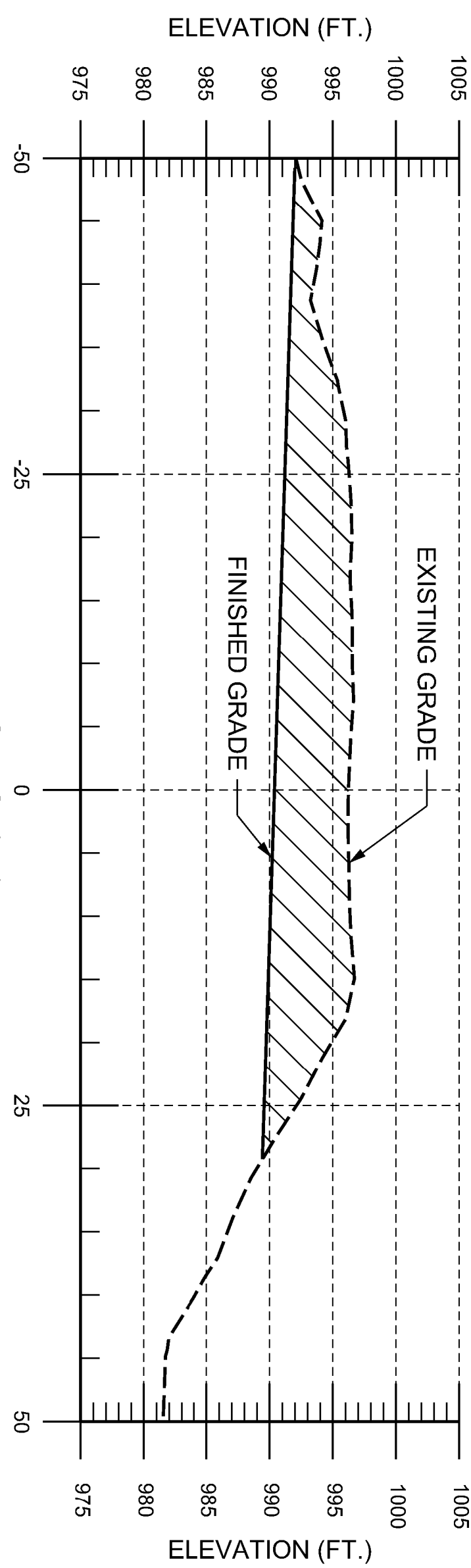
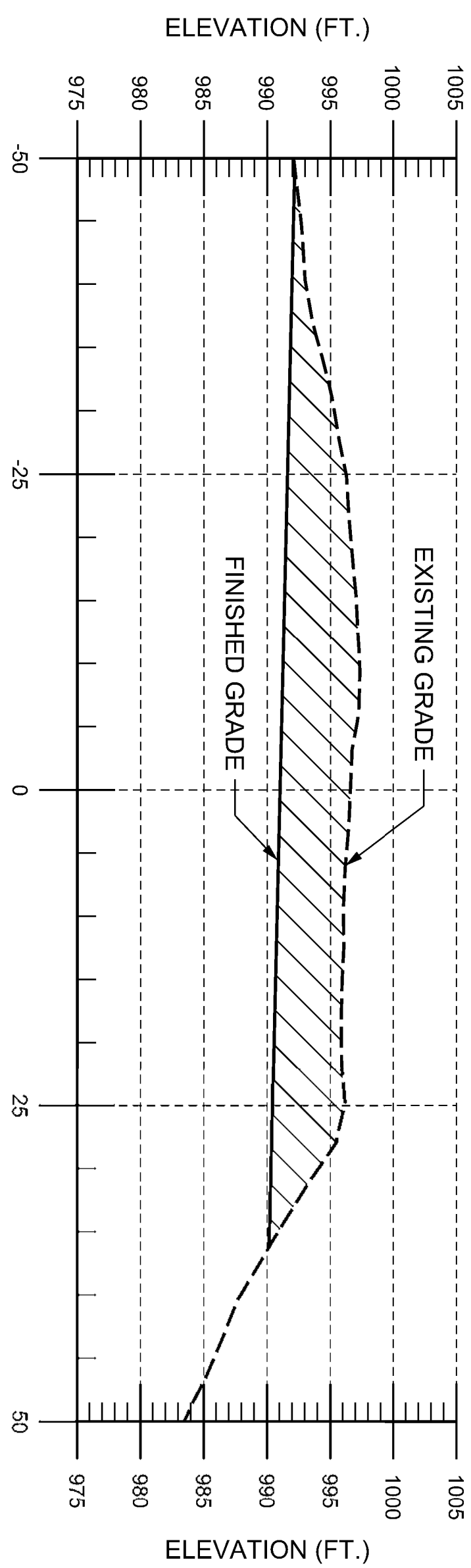
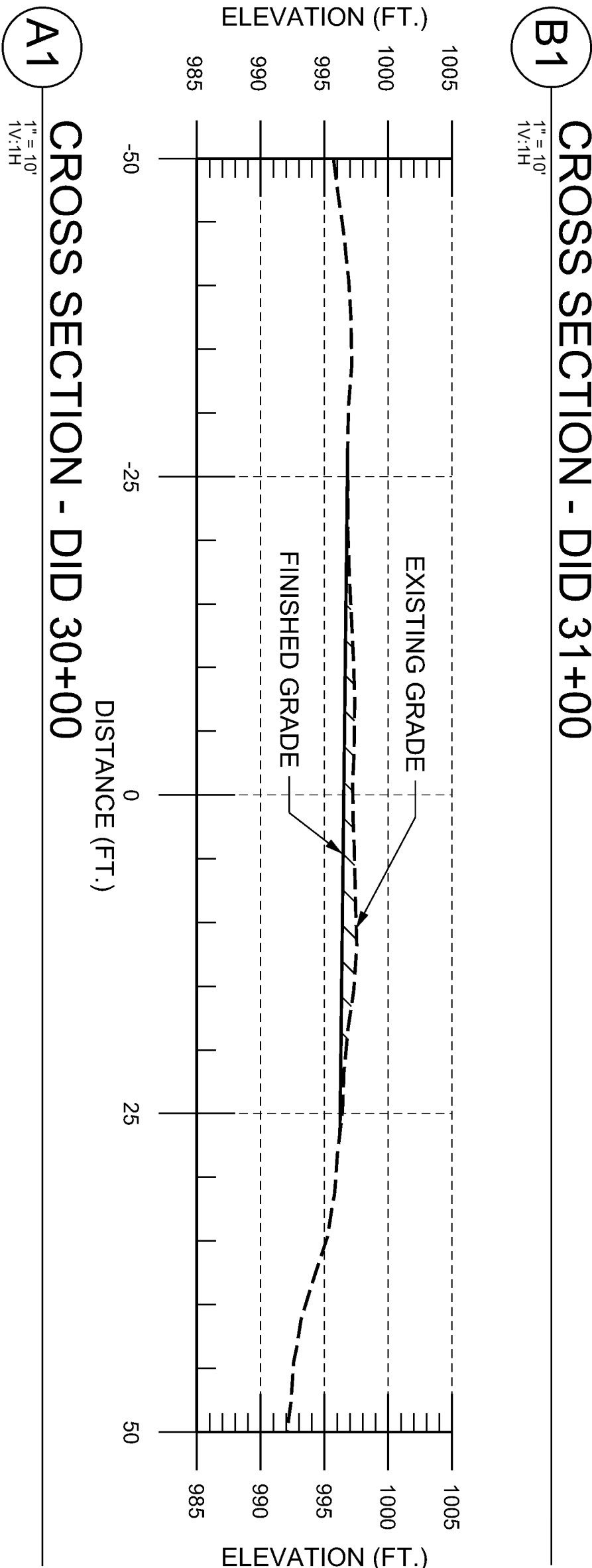
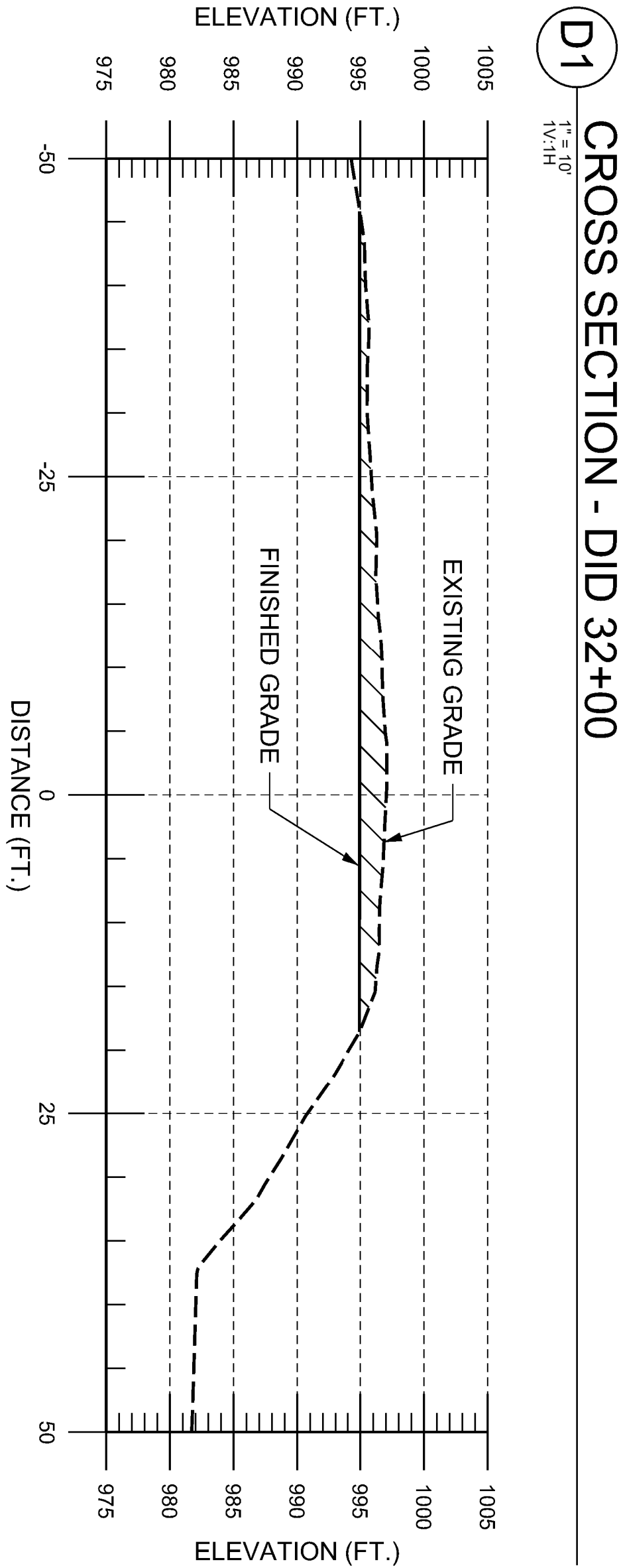
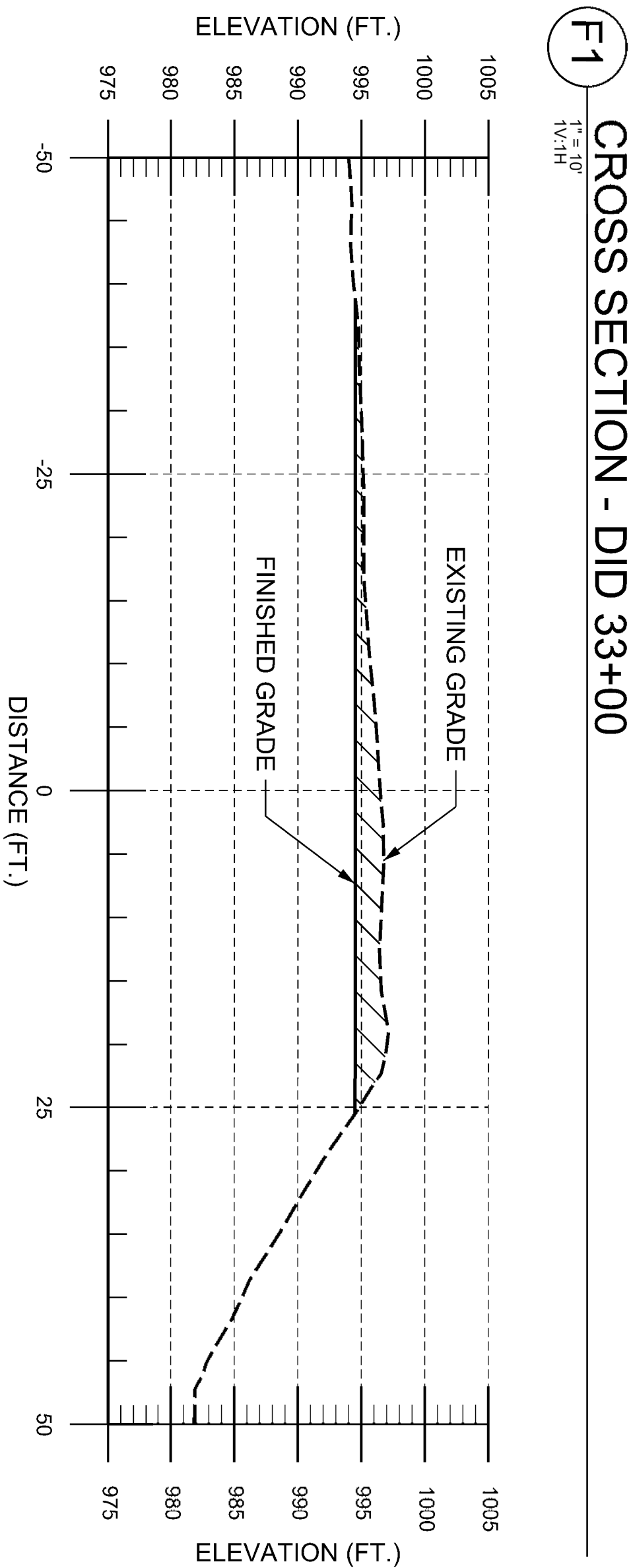
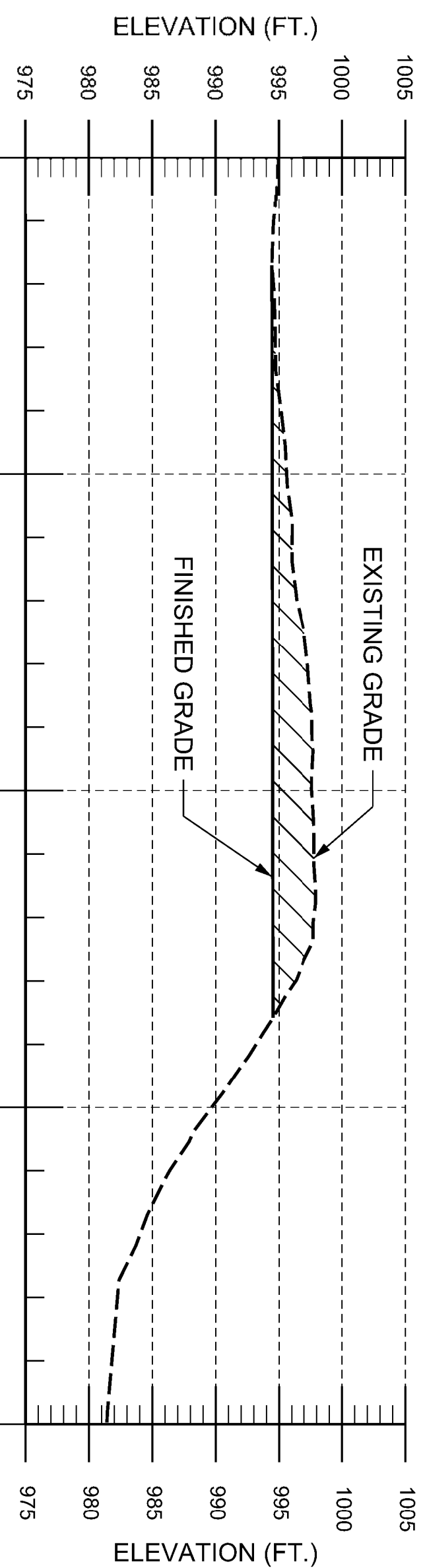
MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	




U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	DID #1 LEVEE DEGRADATION CROSS SECTIONS 4
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SHEET ID
OPT #2
2-C-320



LEGEND

	<p>EXISTING GRADE</p>
	<p>FINISHED GRADE</p>
	<p>FILL OR CUT</p>



MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRADATION
CROSS SECTIONS 5

SHEET ID
OPT #2
2-C-321

LEGEND

EXISTING GRADE

FINISHED GRADE

FILL OR CUT

ELEVATION (FT.)

EXISTING GRADE

FINISHED GRADE

DISTANCE (FT.)

ELEVATION (FT.)

F1 CROSS SECTION - DID 40+00

1"=10'

1/4"=1'

ELEVATION (FT.)

EXISTING GRADE

FINISHED GRADE

DISTANCE (FT.)

ELEVATION (FT.)

D1 CROSS SECTION - DID 39+00

1"=10'

1/4"=1'

ELEVATION (FT.)

EXISTING GRADE

FINISHED GRADE

DISTANCE (FT.)

ELEVATION (FT.)

C1 CROSS SECTION - DID 38+00

1"=10'

1/4"=1'

ELEVATION (FT.)

EXISTING GRADE

FINISHED GRADE

DISTANCE (FT.)

ELEVATION (FT.)

A1 CROSS SECTION - DID 37+00

1"=10'

1/4"=1'

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRATION
CROSS SECTIONS 6

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON		DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
		DWN BY: J. BARRETT	SOLICITATION NO.:
		CKD BY: G. KATO	CONTRACT NO.:
		SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D			

MARK	DESCRIPTION	DATE

US Army Corps
of Engineers ®

File Path: I:\ECODesign\FY21_P2-404465_YAK1135\Con_Docs\CAD_Sheets\Civil\FY21_P2-404465_YAK1135_2-C-322 - DID #1 LEVEE DEGRADATION - CROSS SECTIONS 6.dgn
Plot Date: 11:15:39 PM

RTA SUBMITTAL w/OPTIONS

LEGEND

EXISTING GRADE

FINISHED GRADE

FILL OR CUT

US Army Corps
of Engineers ©

										DATE
MARK	DESCRIPTION									

E6

1"=10'

1V:1H

CROSS SECTION - DID 45+00

This cross-section diagram, labeled E6, shows the profile of the ground at station DID 45+00. The vertical axis represents ELEVATION (FT.) from 970 to 1005. The horizontal axis represents DISTANCE (FT.) from -50 to 50. A dashed line indicates the EXISTING GRADE, and a solid line indicates the FINISHED GRADE. The area between the existing and finished grades is hatched, indicating fill or cut. The finished grade is generally higher than the existing grade, with a significant fill area between -25 and 25 feet distance.

E6

1"=10'

1V:1H

CROSS SECTION - DID 43+00

This cross-section diagram, labeled E6, shows the profile of the ground at station DID 43+00. The vertical axis represents ELEVATION (FT.) from 970 to 1000. The horizontal axis represents DISTANCE (FT.) from -50 to 50. A dashed line indicates the EXISTING GRADE, and a solid line indicates the FINISHED GRADE. The area between the existing and finished grades is hatched, indicating fill or cut. The finished grade is generally higher than the existing grade, with a significant fill area between -25 and 25 feet distance.

C6

1"=10'

1V:1H

CROSS SECTION - DID 44+00

This cross-section diagram, labeled C6, shows the profile of the ground at station DID 44+00. The vertical axis represents ELEVATION (FT.) from 970 to 1000. The horizontal axis represents DISTANCE (FT.) from -50 to 50. A dashed line indicates the EXISTING GRADE, and a solid line indicates the FINISHED GRADE. The area between the existing and finished grades is hatched, indicating fill or cut. The finished grade is generally higher than the existing grade, with a significant fill area between -25 and 25 feet distance.

C1

1"=10'

1V:1H

CROSS SECTION - DID 42+00

This cross-section diagram, labeled C1, shows the profile of the ground at station DID 42+00. The vertical axis represents ELEVATION (FT.) from 970 to 1005. The horizontal axis represents DISTANCE (FT.) from -50 to 50. A dashed line indicates the EXISTING GRADE, and a solid line indicates the FINISHED GRADE. The area between the existing and finished grades is hatched, indicating fill or cut. The finished grade is generally higher than the existing grade, with a significant fill area between -25 and 25 feet distance.

A1

1"=10'

1V:1H

CROSS SECTION - DID 41+00

This cross-section diagram, labeled A1, shows the profile of the ground at station DID 41+00. The vertical axis represents ELEVATION (FT.) from 970 to 1005. The horizontal axis represents DISTANCE (FT.) from -75 to 75. A dashed line indicates the EXISTING GRADE, and a solid line indicates the FINISHED GRADE. The area between the existing and finished grades is hatched, indicating fill or cut. The finished grade is generally higher than the existing grade, with a significant fill area between -25 and 25 feet distance.

File Path: I:\ECODesign\FY21_P2-404465_YAK1135\Con_Docs\CAD_Sheets\Civil\FY21_P2-404465_YAK1135_2-C-323 - DID #1 LEVEE DEGRADATION - CROSS SECTIONS 7.dgn

Plot Date: 11/7/13 PM

RTA SUBMITTAL w/OPTIONS

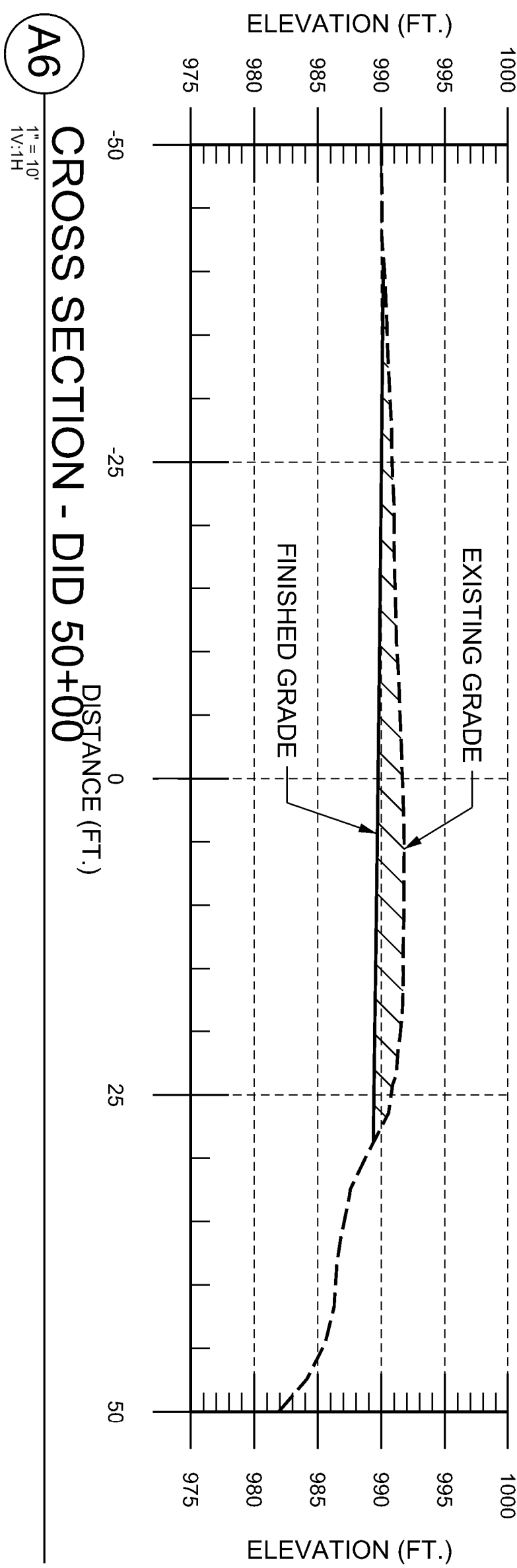
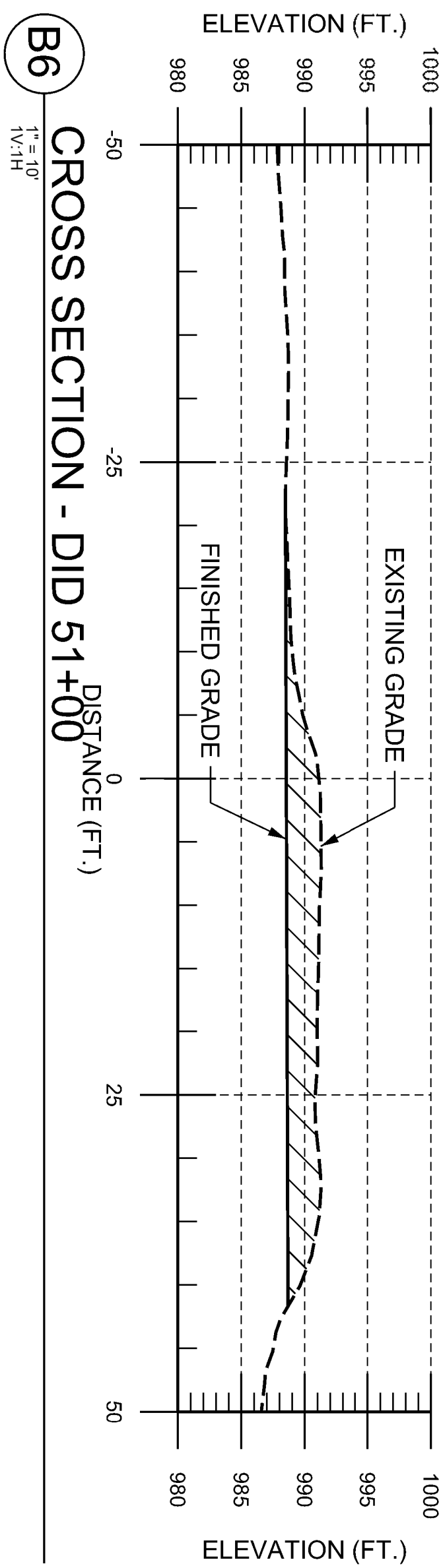
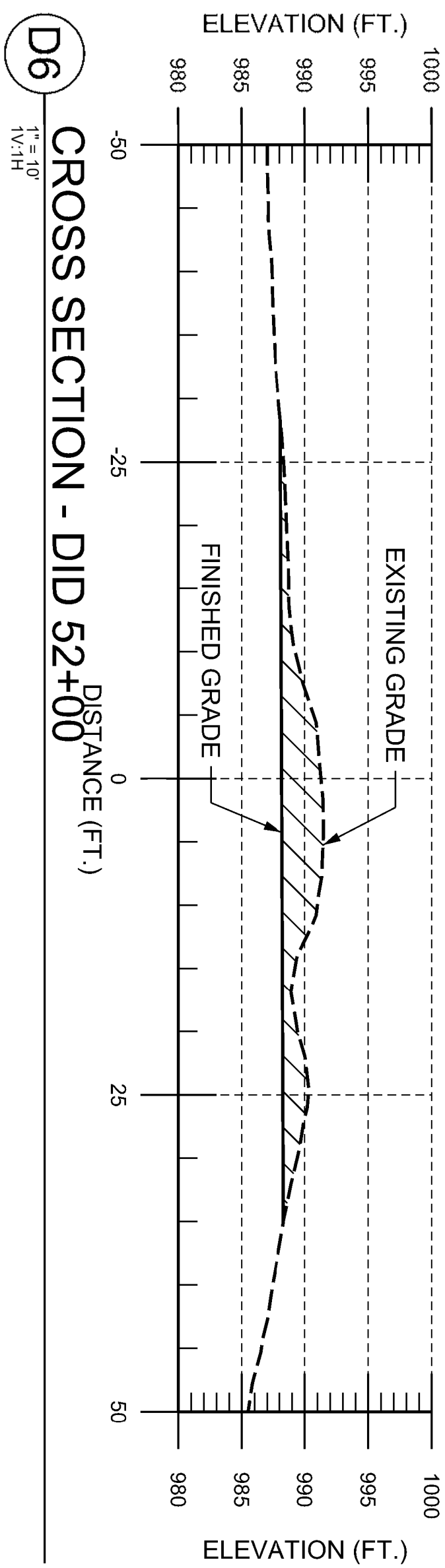
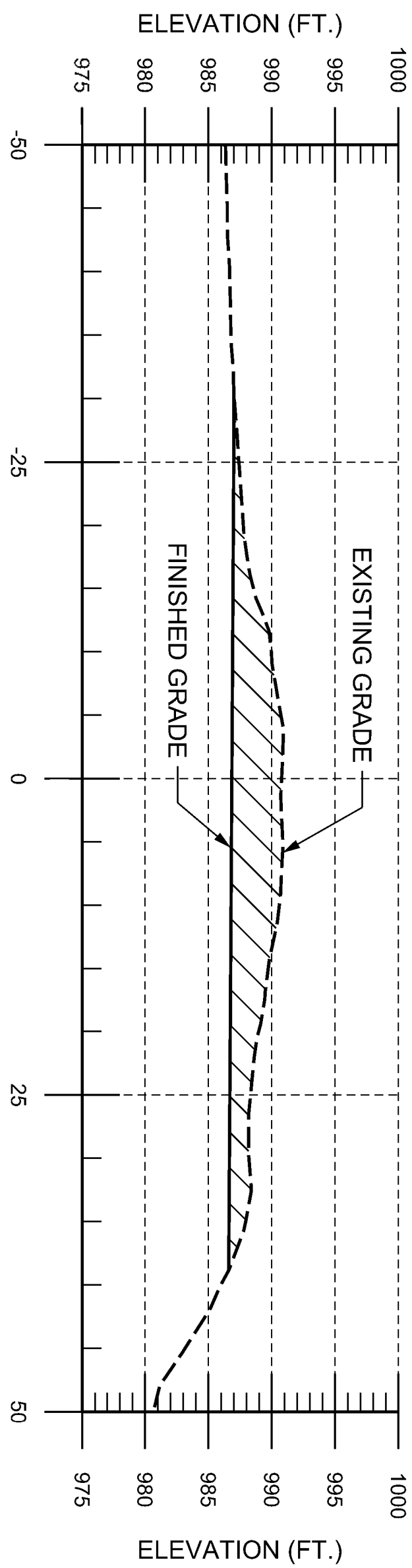
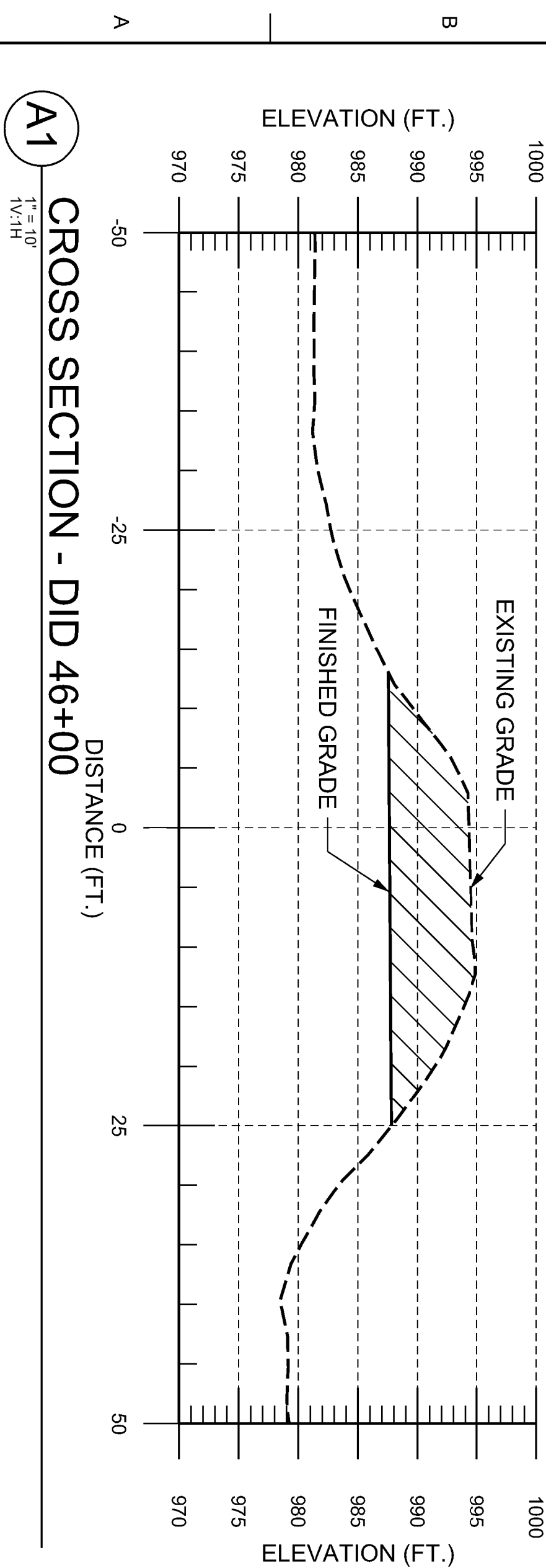
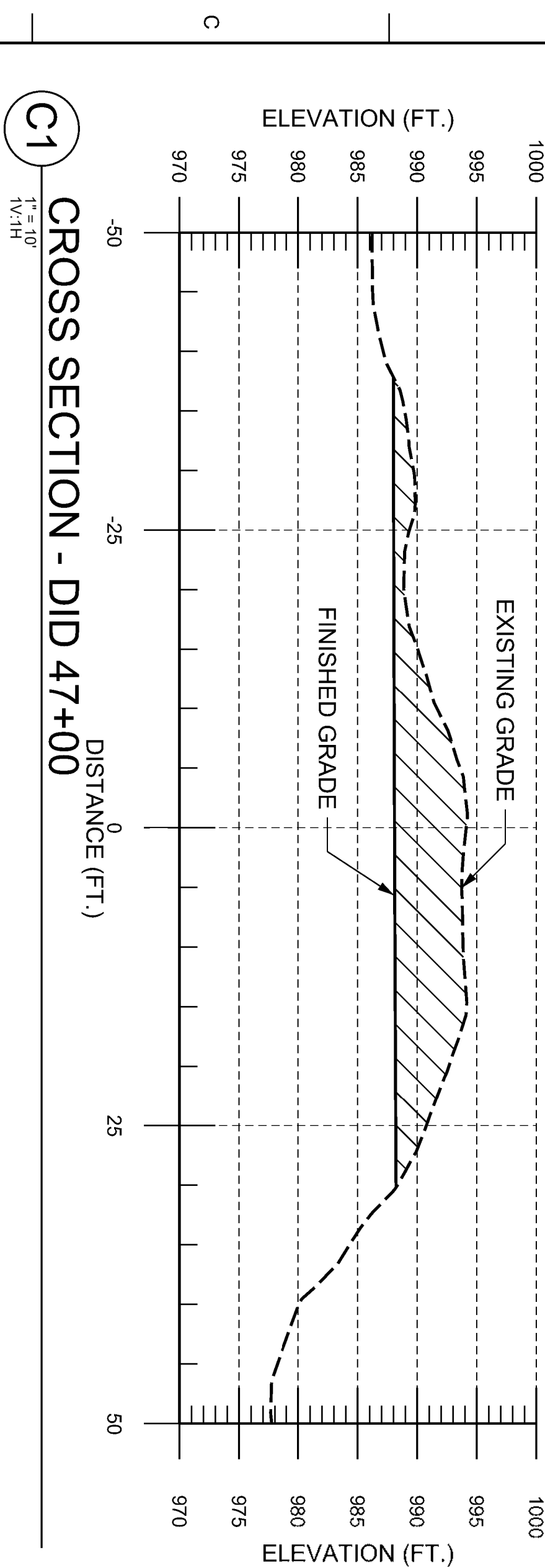
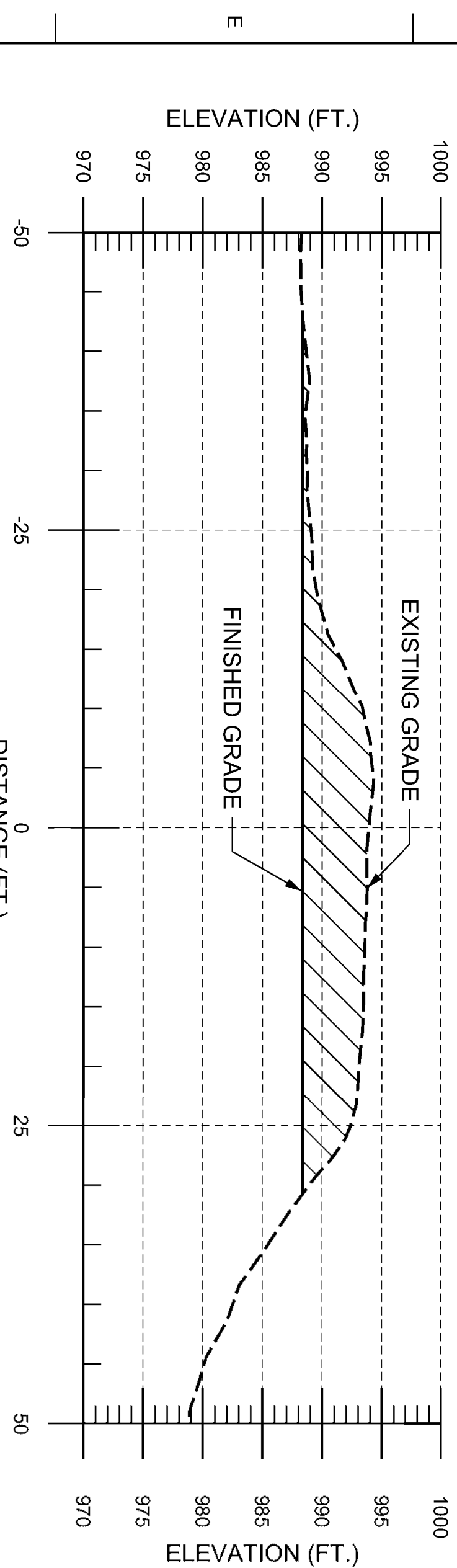
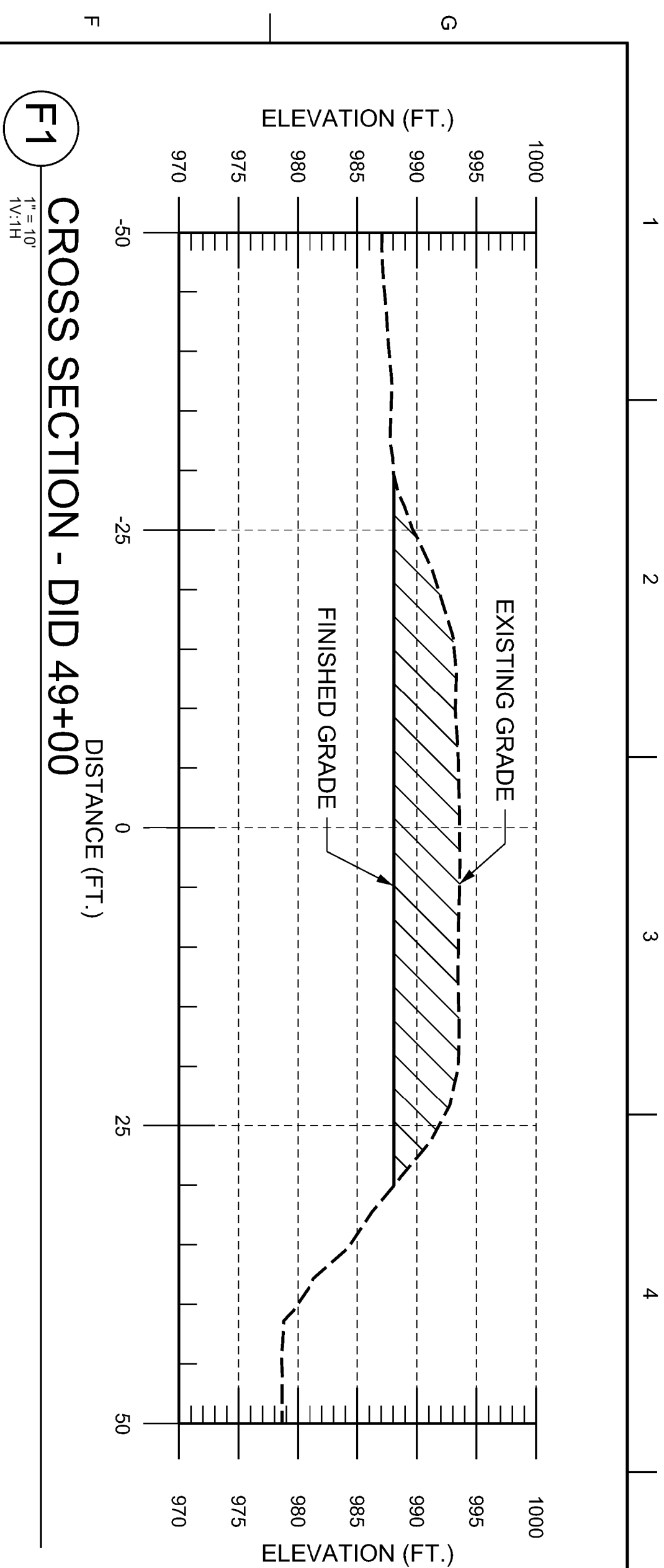
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DWN BY: J. BARRETT		SOLICITATION NO.:	
CKD BY: G. KATO		CONTRACT NO.:	
SUBMITTED BY: STEPHANIE McKENNA		FILE NUMBER: D-8-4-109	
SIZE: ANSI D			

YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON
DID #1 LEVEE DEGRATION CROSS SECTIONS 7




SHEET ID


OPT #2

2-C-323



LEGEND

	EXISTING GRADE
	FINISHED GRADE
	FILL OR CUT



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[illegible]

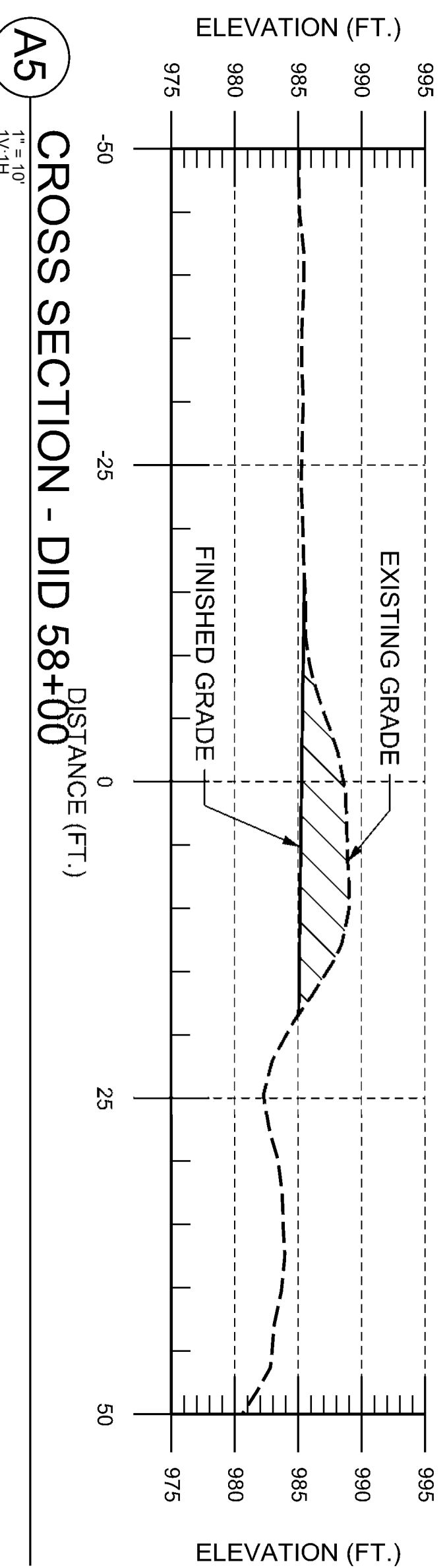
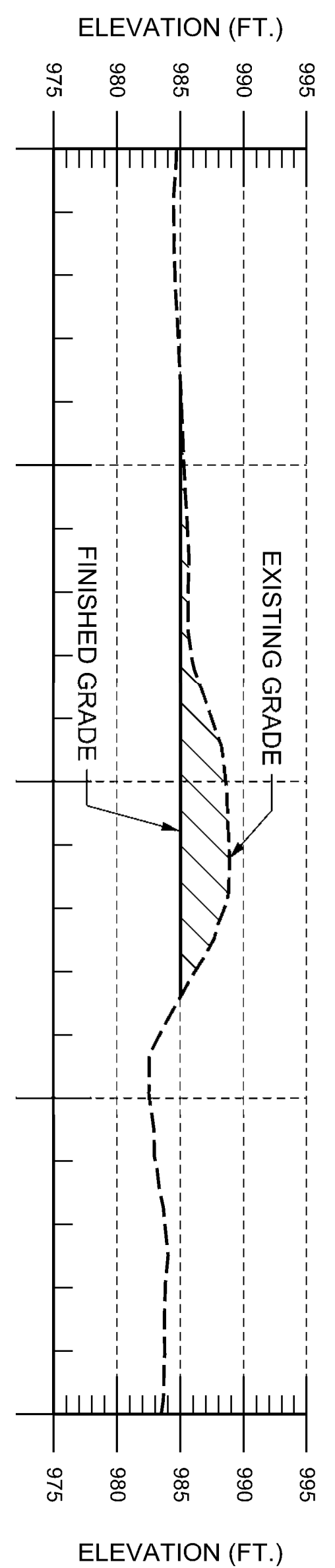
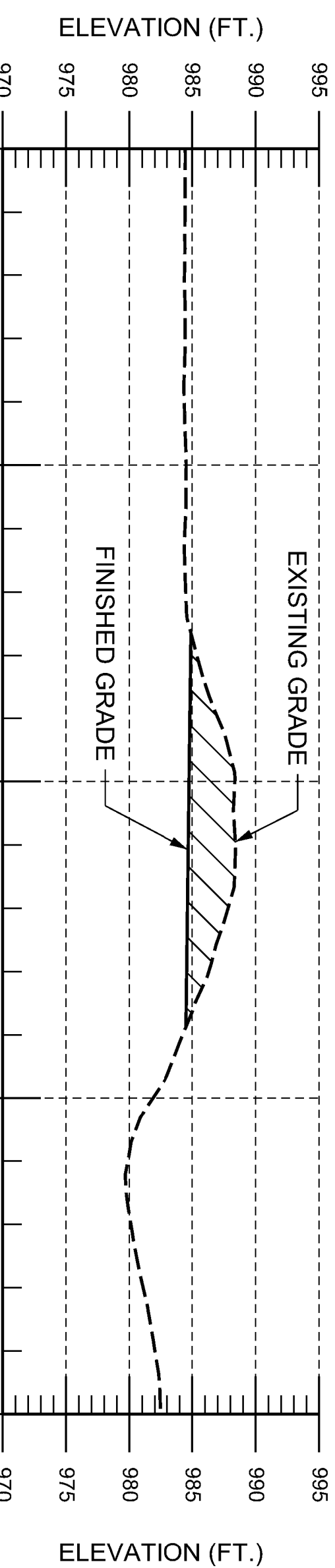
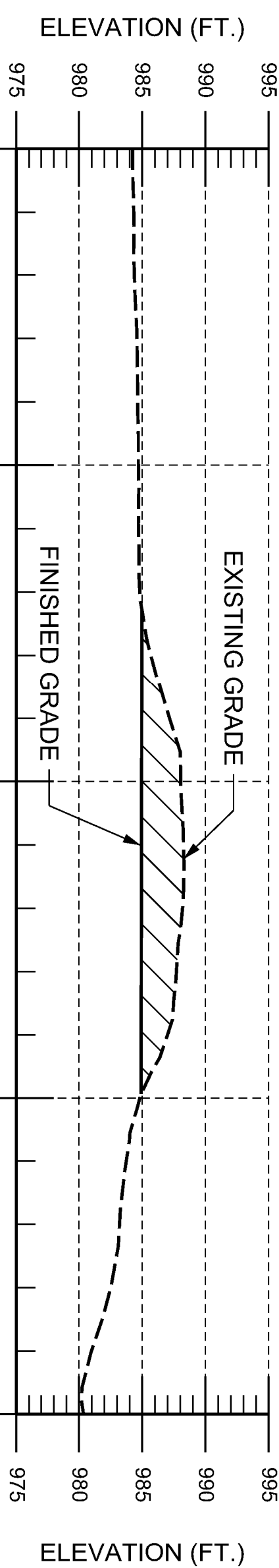
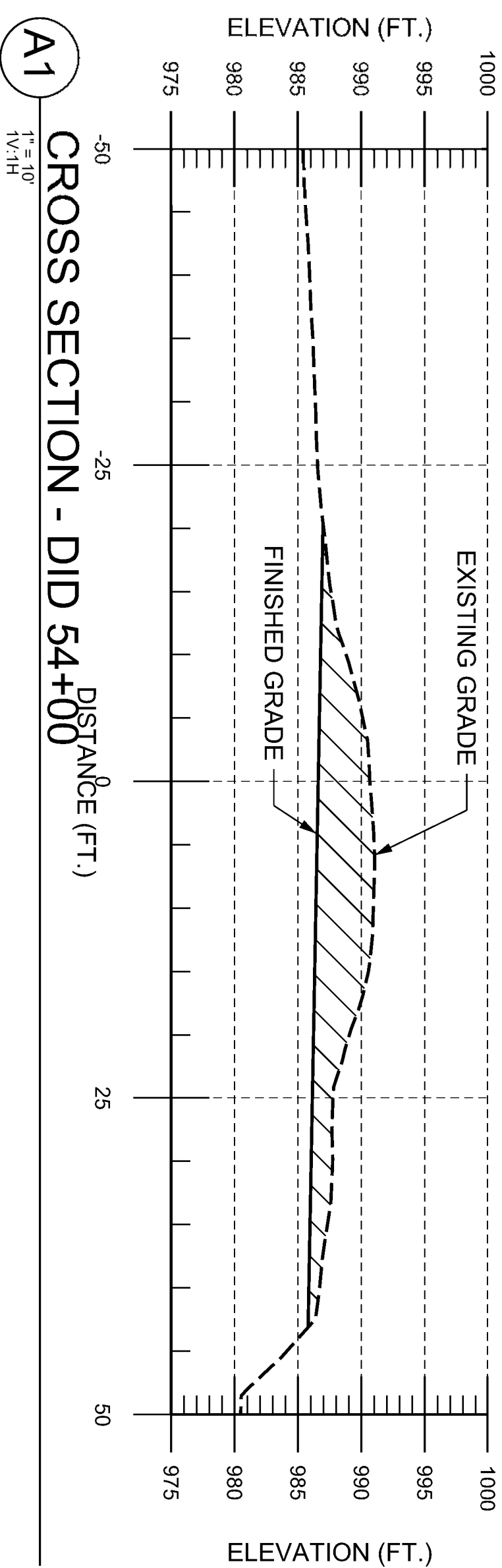
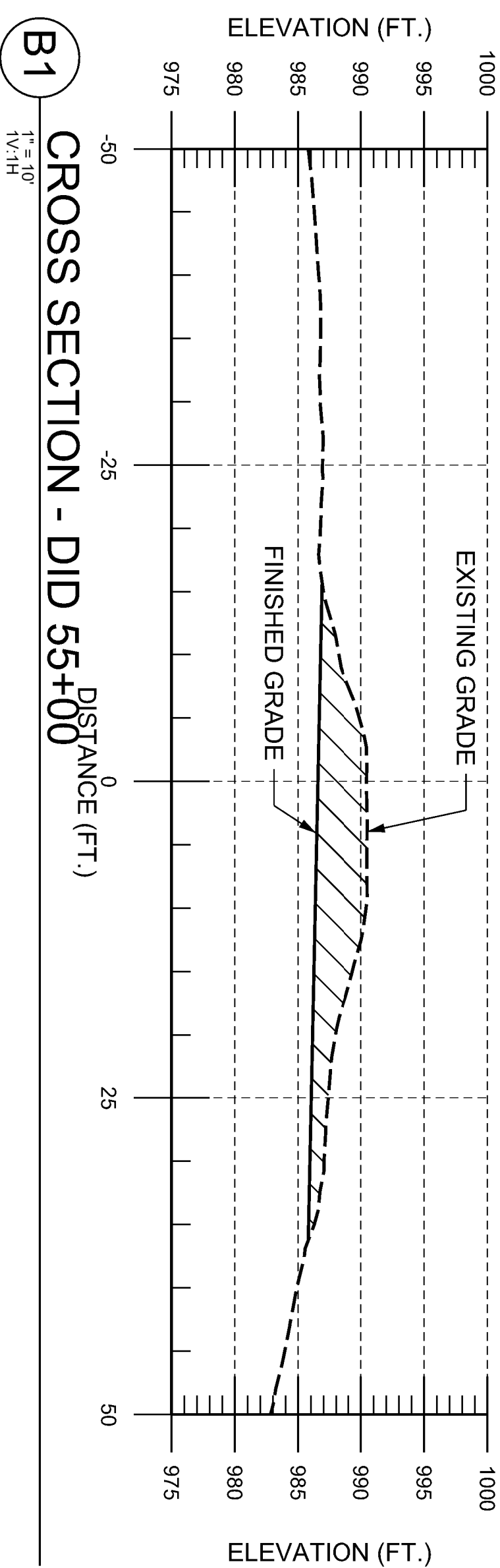
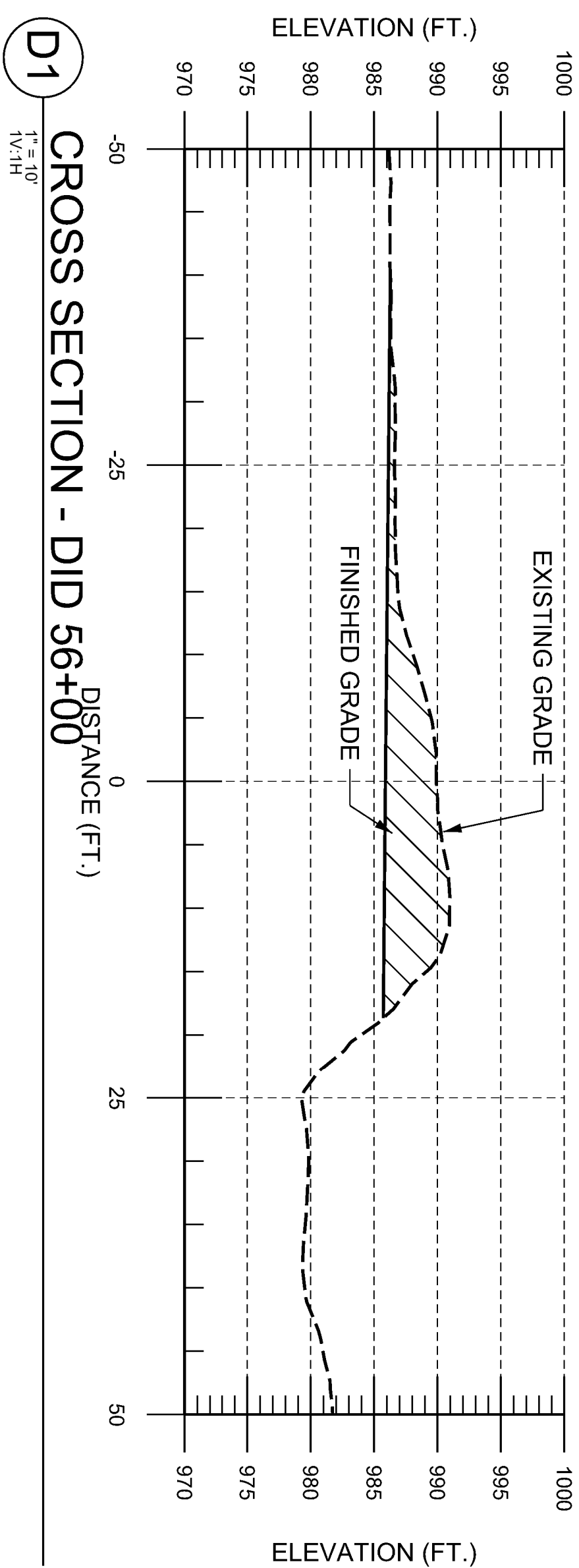
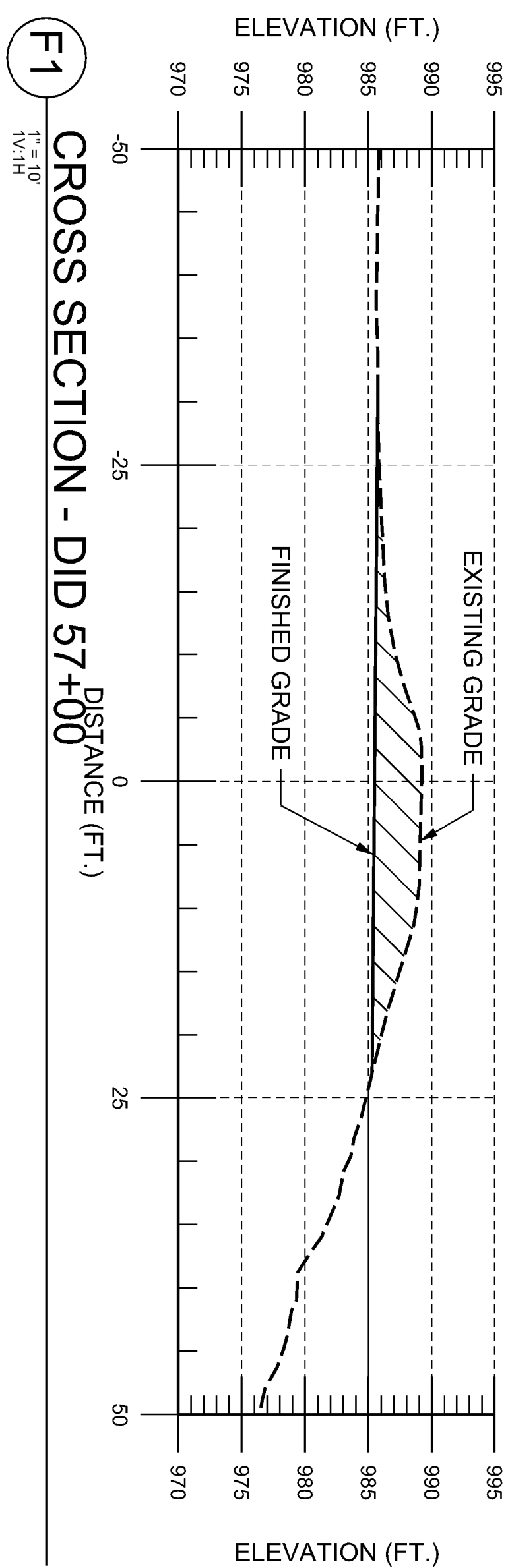
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DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

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SEATTLE DISTRICT
SEATTLE, WASHINGTON


YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRADATION
CROSS SECTIONS 8

SHEET ID
OPT #2
2-C-324



LEGEND

---	EXISTING GRADE
—	FINISHED GRADE
	FILL OR CUT



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of Engineers®**

[illegible]

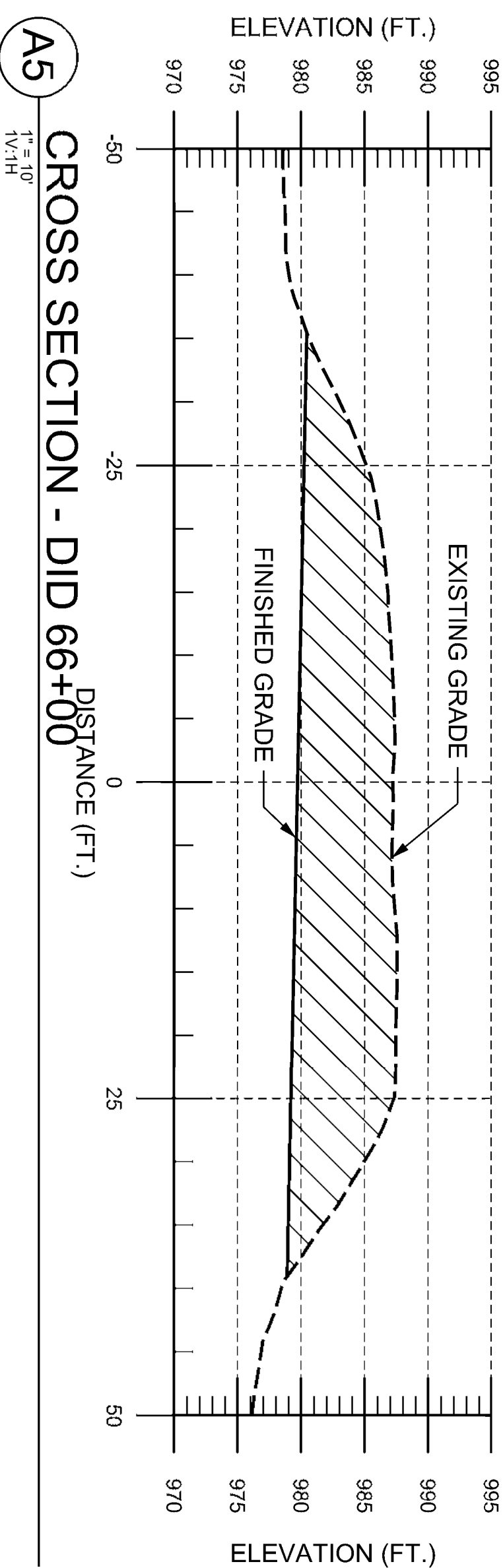
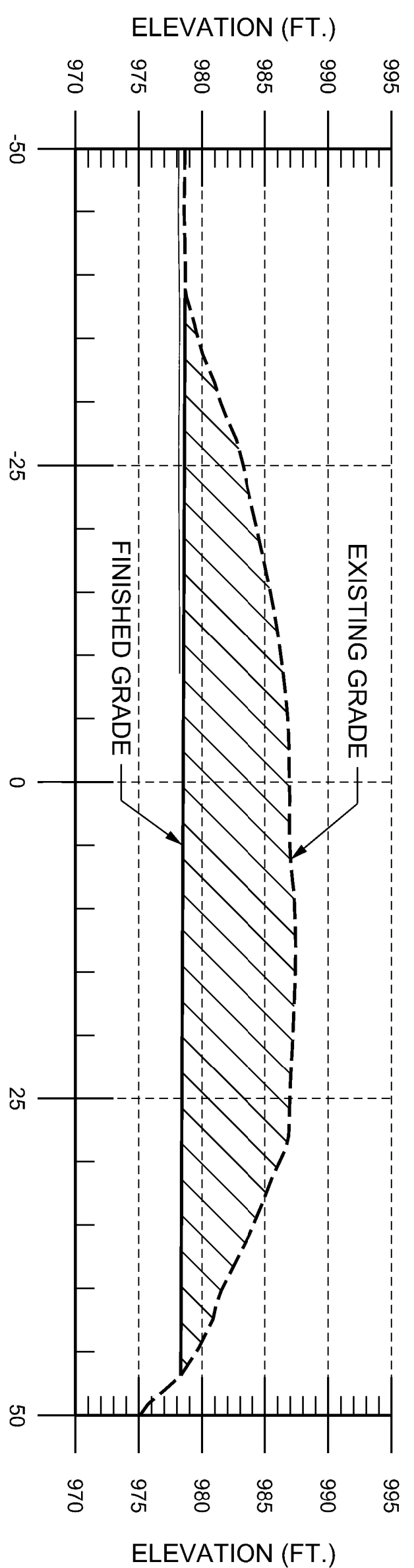
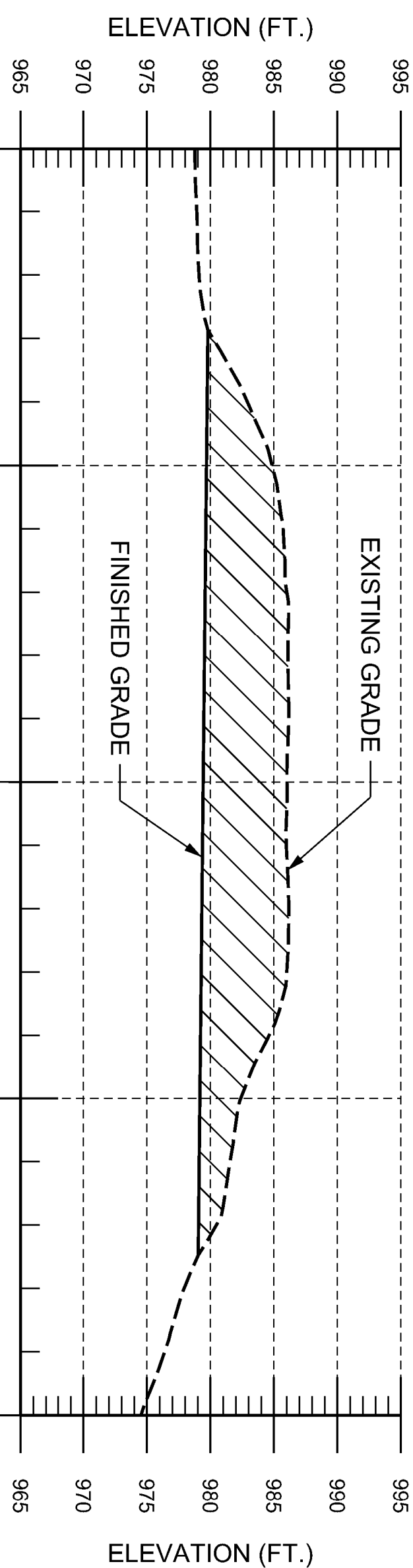
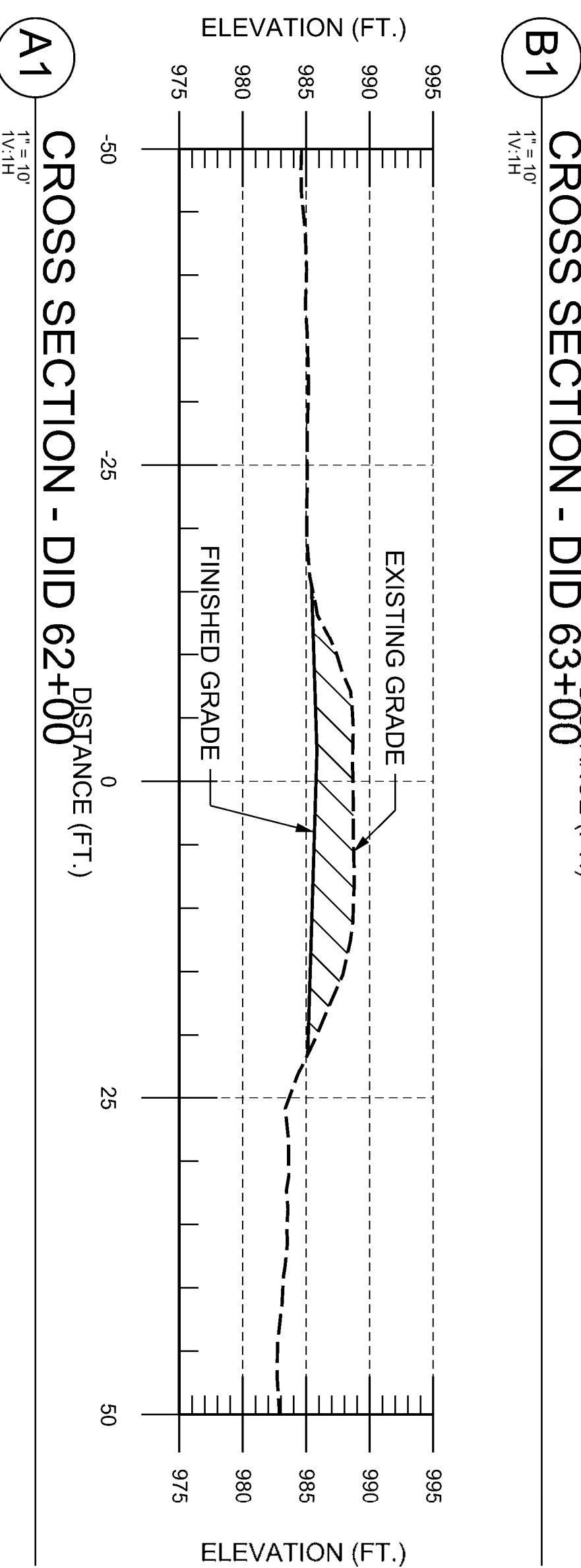
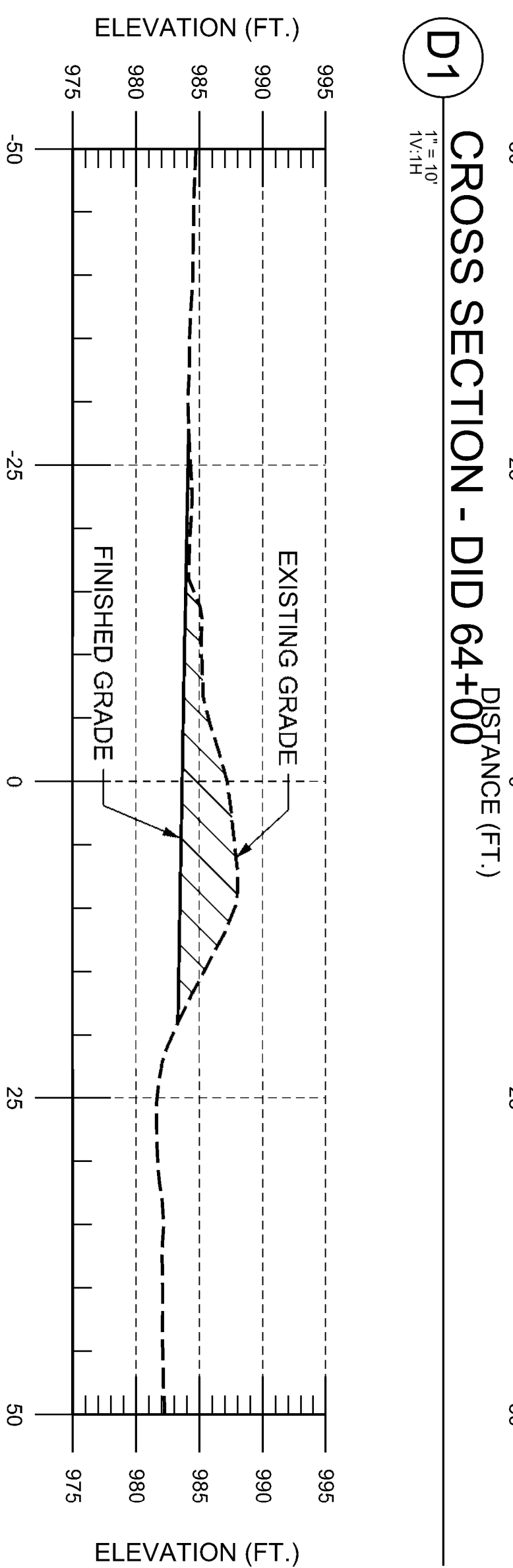
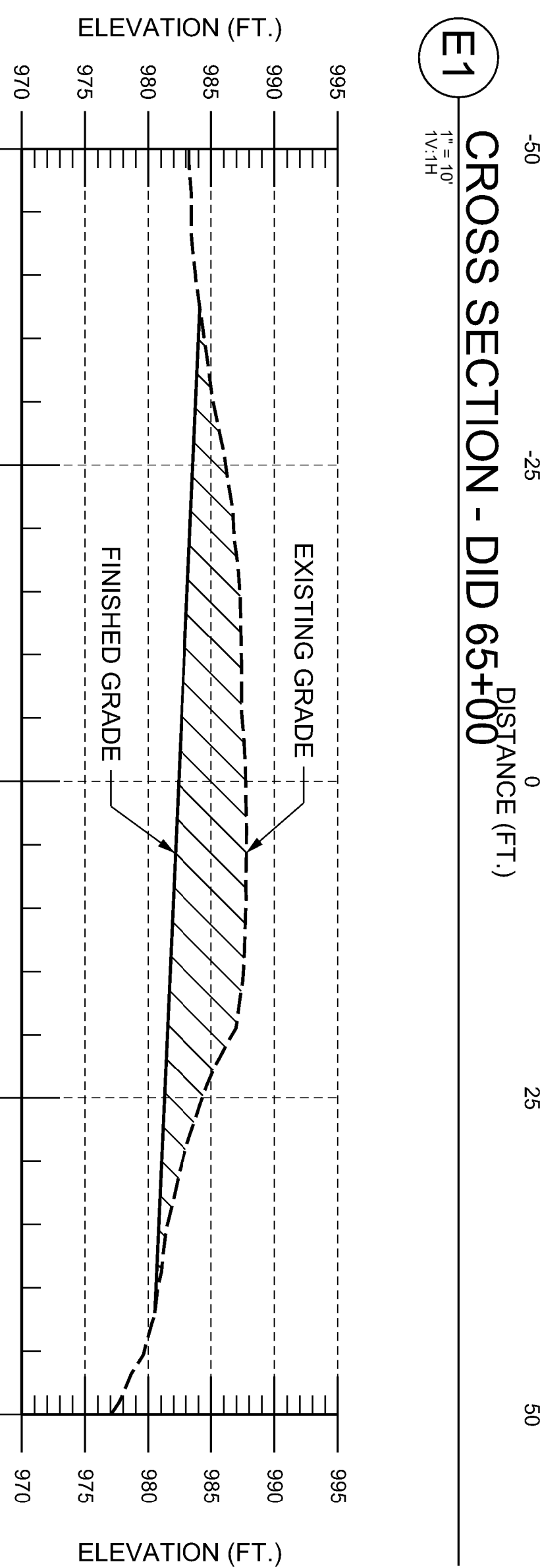
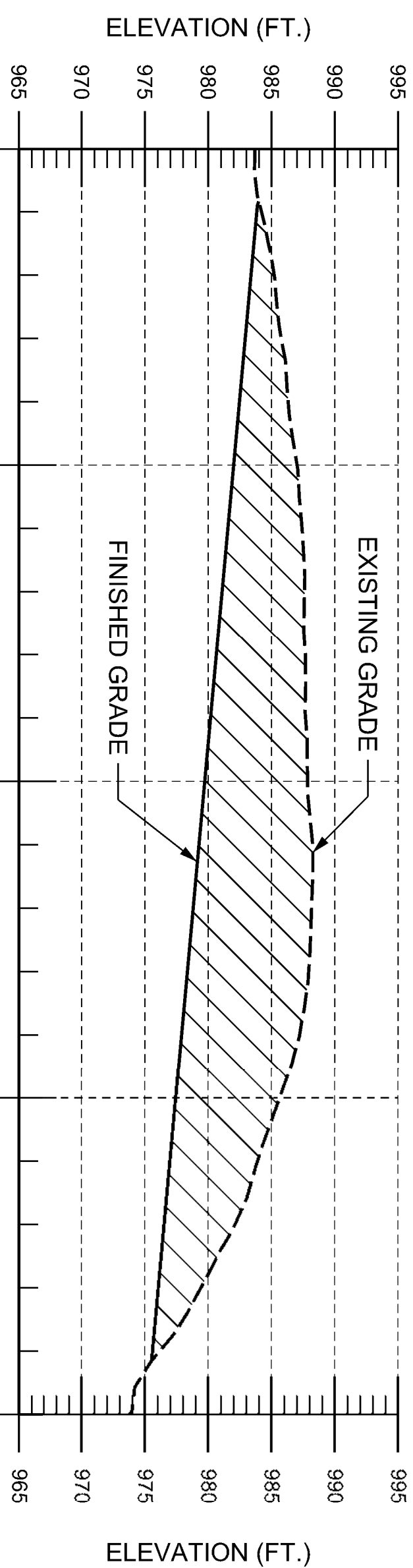
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DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	



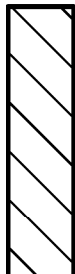
U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON


YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGREGRATION
CROSS SECTIONS 9

SHEET ID
OPT #2
2-C-325



	9			10
<h1 style="margin: 0;">LEGEND</h1>				
		EXISTING GRADE		
		FINISHED GRADE		
		FILL OR CUT		

 <p>US Army Corps of Engineers ®</p>	
DATE _____	

MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

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YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRADATION
CROSS SECTIONS 10


SHEET ID
OPT #2
2-C-326

LEGEND

EXISTING GRADE

FINISHED GRADE

FILL OR CUT



US Army Corps
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DATE

MARK	DESCRIPTION

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

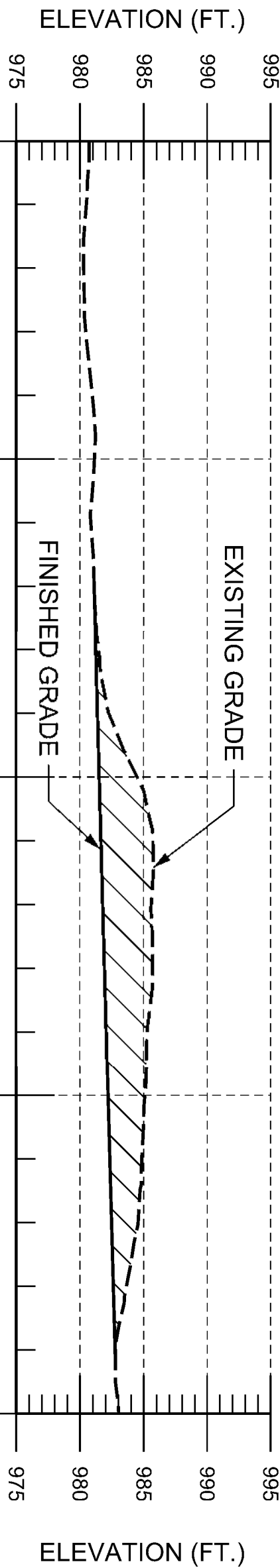
U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRIGATION
CROSS SECTIONS 11

SHEET ID
OPT #2
2-C-327

ELEVATION (FT.)



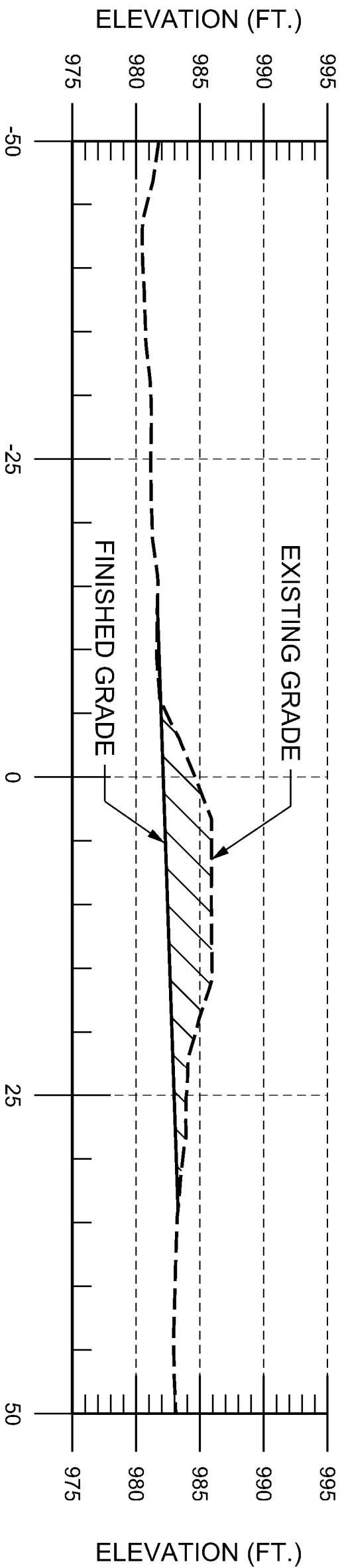
EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 72+00

1"=10'
1 1/2"=1'

ELEVATION (FT.)



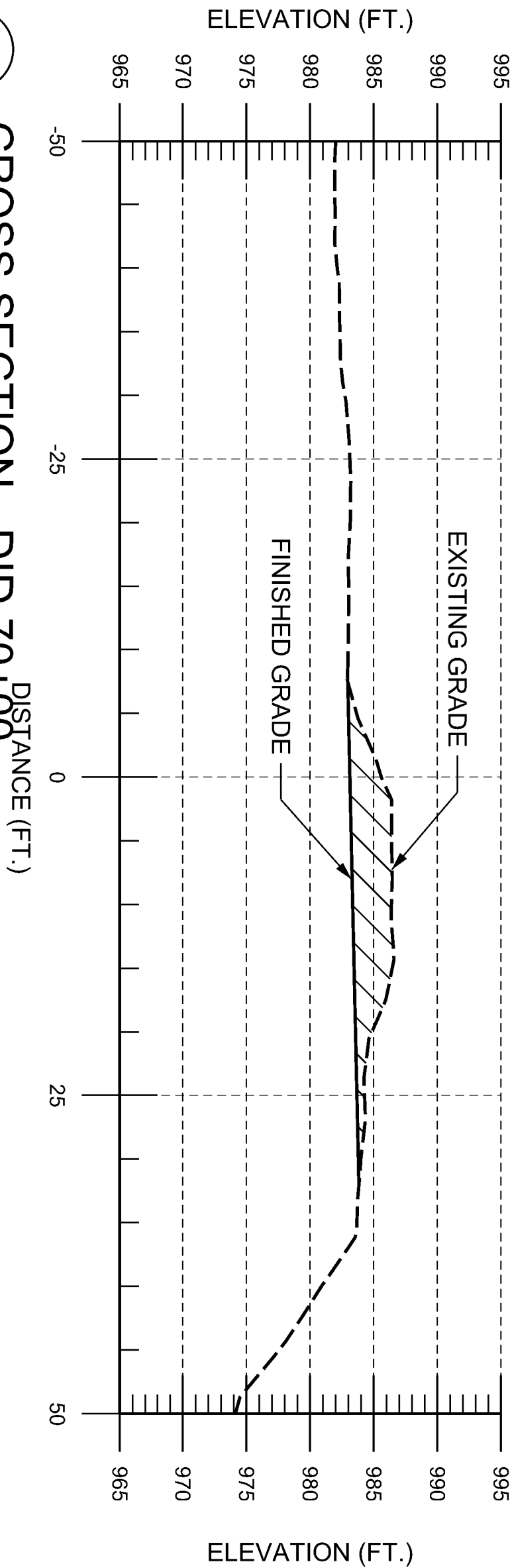
EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 71+00

1"=10'
1 1/2"=1'

ELEVATION (FT.)



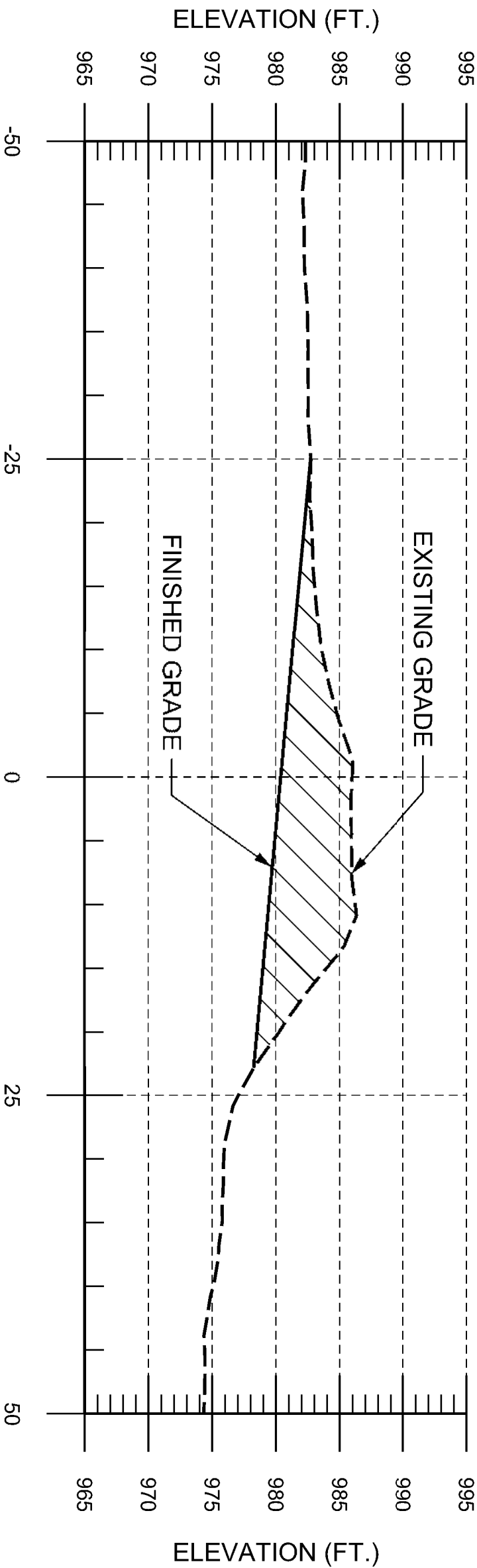
EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 70+00

1"=10'
1 1/2"=1'

ELEVATION (FT.)



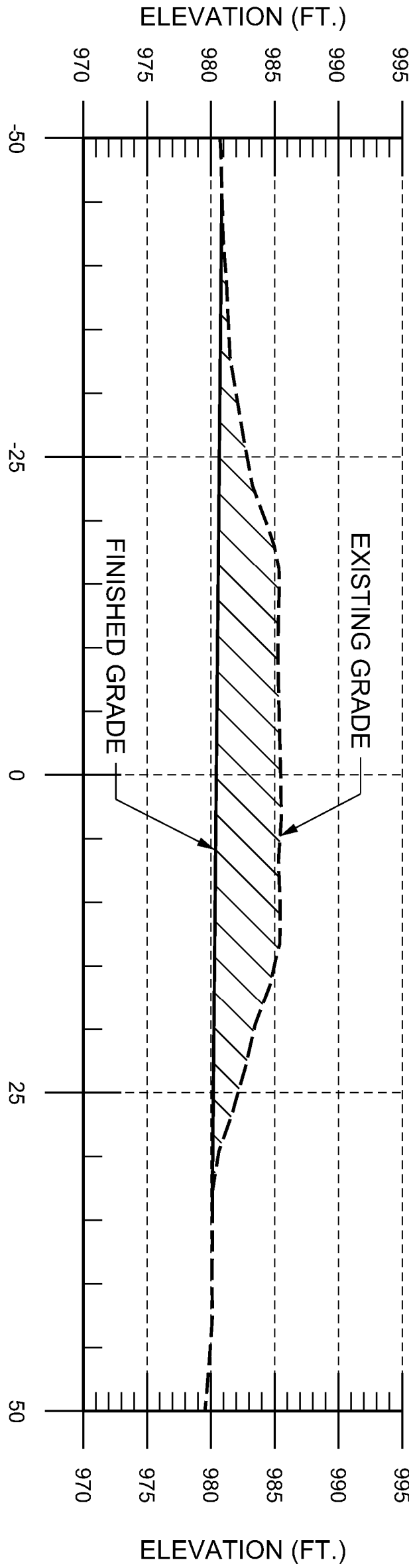
EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 69+00

1"=10'
1 1/2"=1'

ELEVATION (FT.)



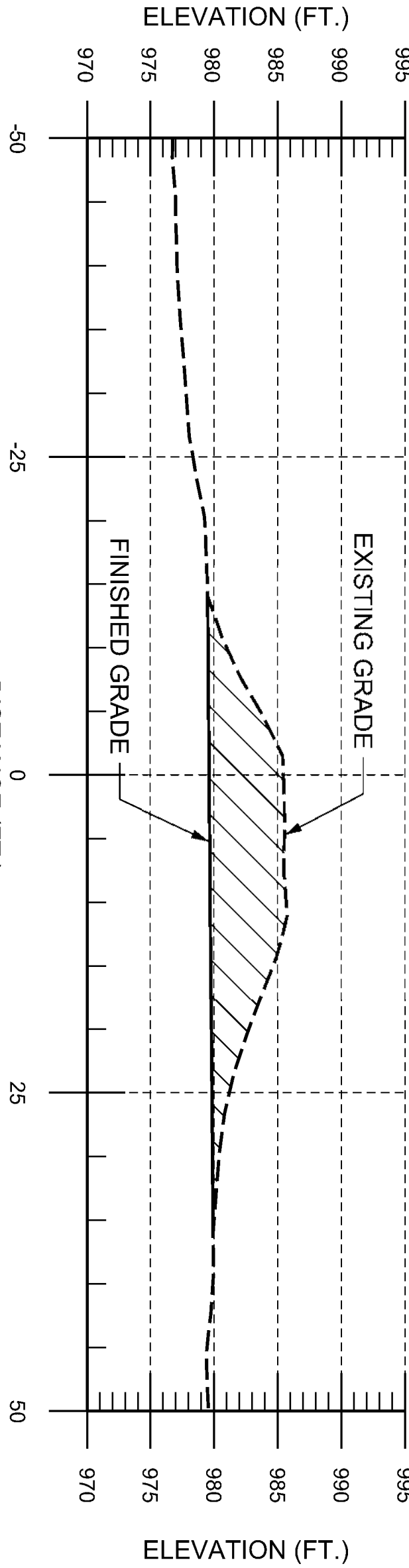
EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 75+00

1"=10'
1 1/2"=1'

ELEVATION (FT.)



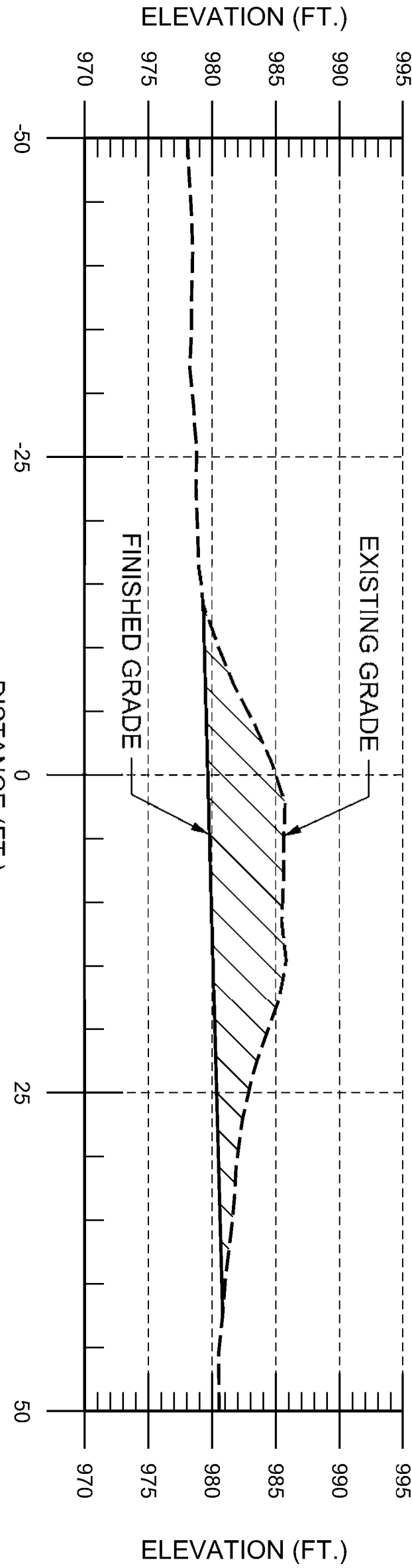
EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 74+00

1"=10'
1 1/2"=1'

ELEVATION (FT.)



EXISTING GRADE

FINISHED GRADE

CROSS SECTION - DID 73+00

1"=10'
1 1/2"=1'

File Path: I:\ECODesign\FY21_P2-404465_YAK1135\Con_Docs\CAD_Sheets\Civil\FY21_P2-404465_YAK1135_2-C-327 - DID #1 LEVEE DEGRADATION - CROSS SECTIONS 11.dgn
Plot Date: 1:23:22 PM

RTA SUBMITTAL w/OPTIONS

G

LEGEND

EXISTING GRADE

FINISHED GRADE

FILL OR CUT

F

E1
1"=10'
1V:1H

CROSS SECTION - DID 79+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

E

D1
1"=10'
1V:1H

CROSS SECTION - DID 78+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

D

B1
1"=10'
1V:1H

CROSS SECTION - DID 77+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

B

A1
1"=10'
1V:1H

CROSS SECTION - DID 76+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

A

D5
1"=10'
1V:1H

CROSS SECTION - DID 82+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

B5
1"=10'
1V:1H

CROSS SECTION - DID 81+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

A5
1"=10'
1V:1H

CROSS SECTION - DID 80+00

ELEVATION (FT.)

DISTANCE (FT.)

EXISTING GRADE

FINISHED GRADE

File Path: I:\ECODesign\FY21_P2-404465_YAK1135Con_Docs\CAD_Sheets\Civil\FY21_P2-404465_YAK1135_2-C-328 - DID #1 LEVEE DEGRADATION - CROSS SECTIONS 12.dgn
Plot Date: 1:24:57 PM

RTA SUBMITTAL w/OPTIONS

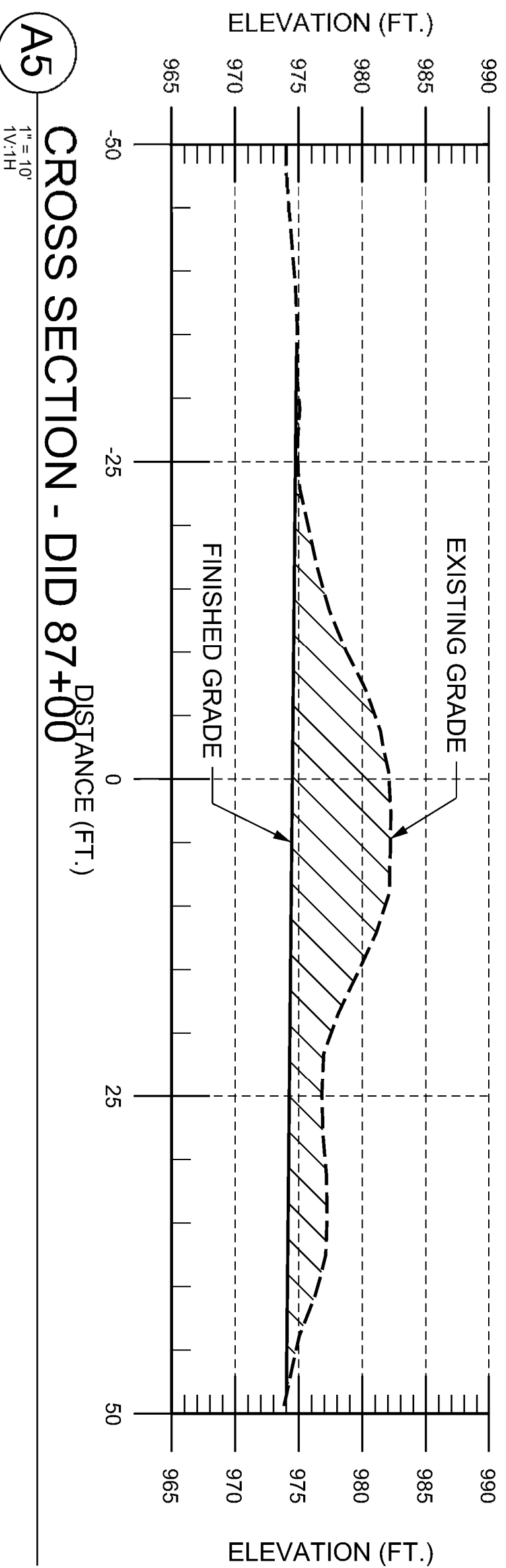
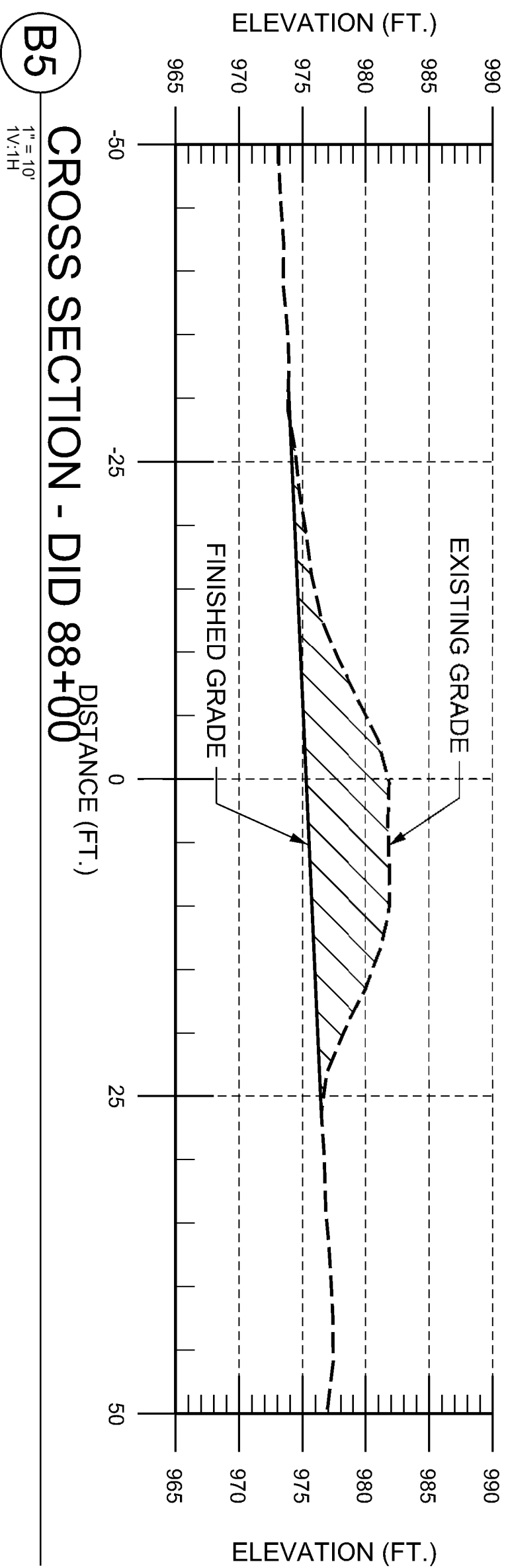
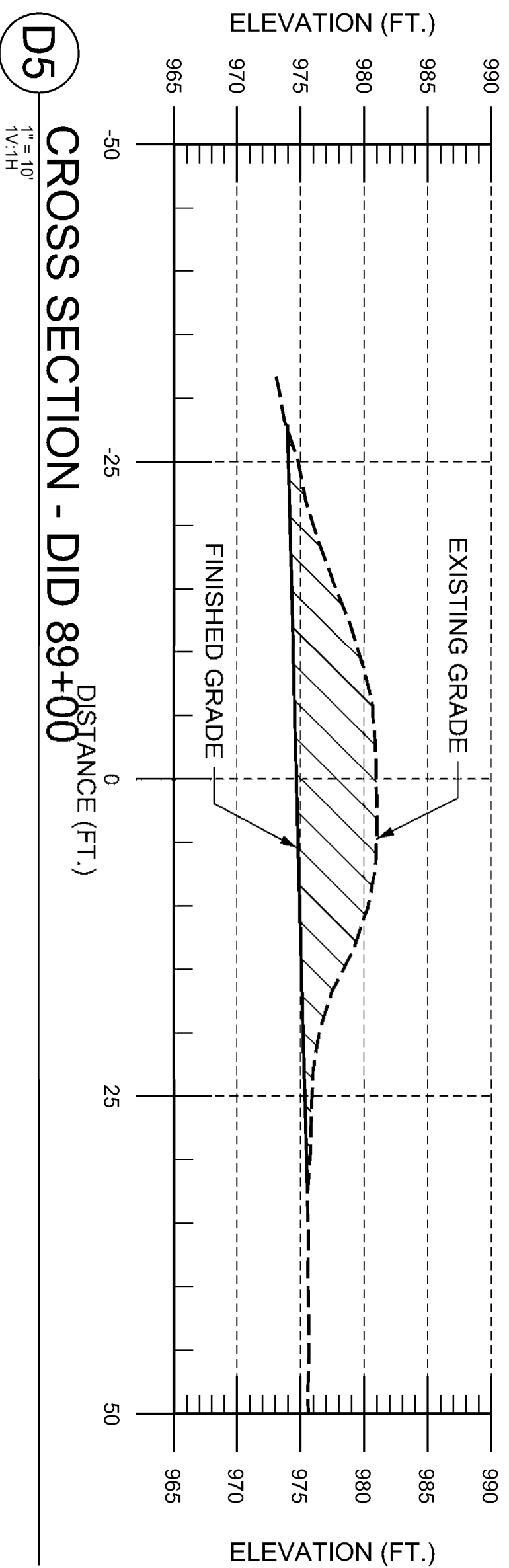
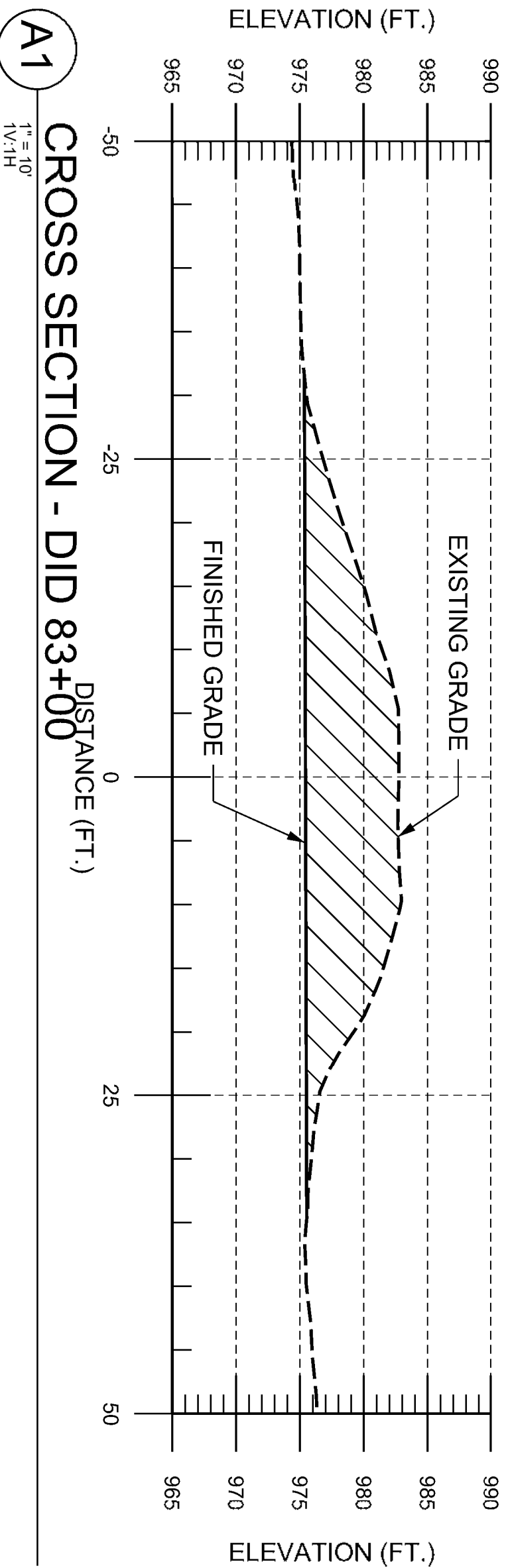
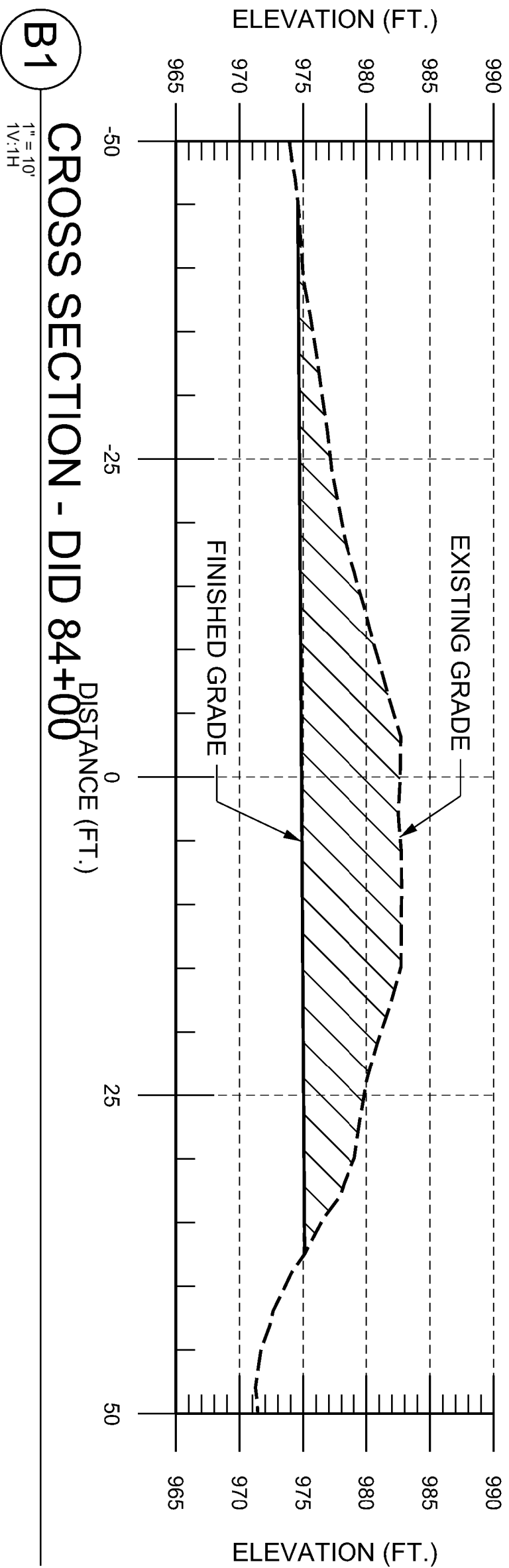
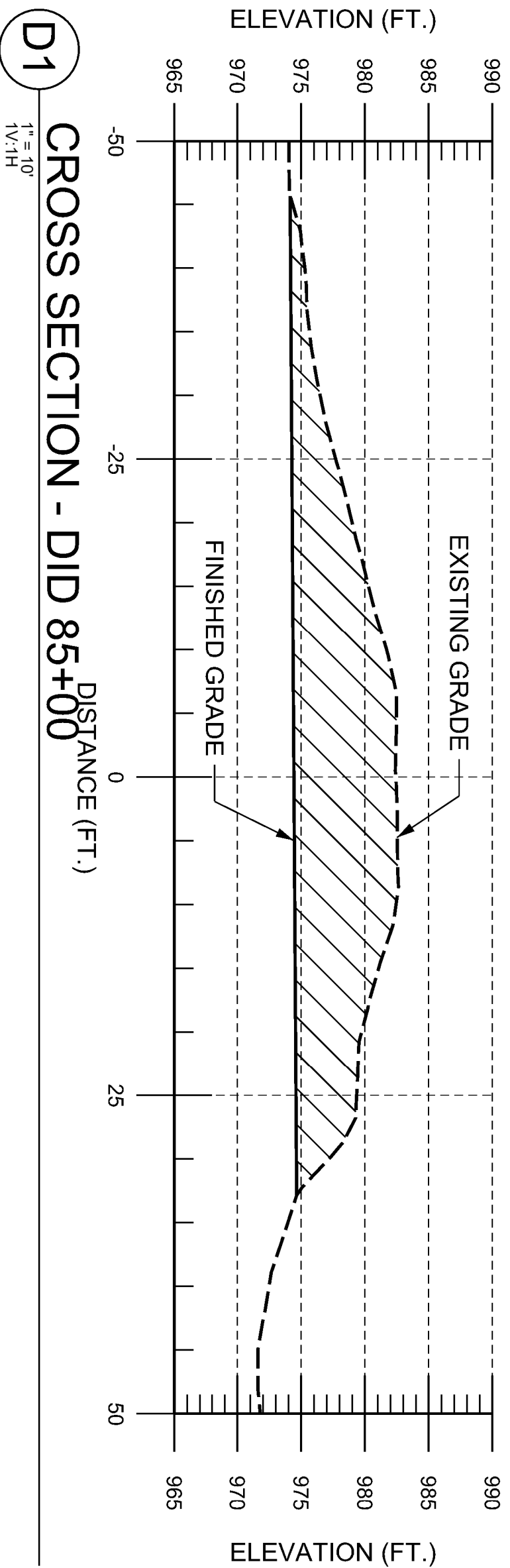
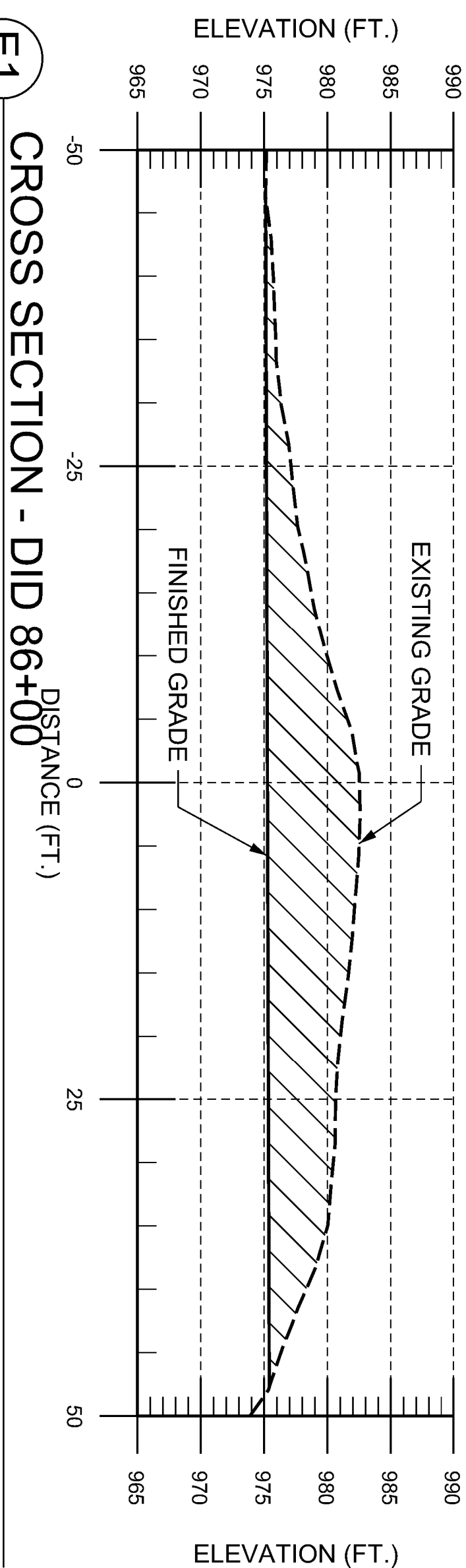
DESIGNED BY: L. FORD		ISSUE DATE: 31 MAY 2022	
DWN BY: J. BARRETT		SOLICITATION NO.:	
CKD BY: G. KATO		CONTRACT NO.:	
SUBMITTED BY: STEPHANIE McKENNA		FILE NUMBER: D-8-4-109	
SIZE: ANSI D			

YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON
DID #1 LEVEE DEGRATION CROSS SECTIONS 12

SHEET ID OPT #2 2-C-328

MARK	DESCRIPTION	DATE

US Army Corps
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1
2
3
4
5
6
7
8
9
10

LEGEND



**US Army Corps
of Engineers®**

EXISTING GRADE
FINISHED GRADE
FILL OR CUT

MARK	DESCRIPTION	DATE

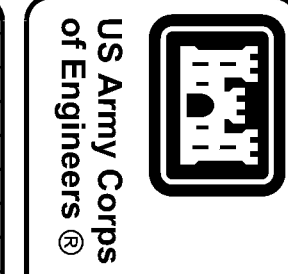
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

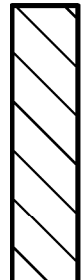
DID #1 LEVEE DEGREGRATION
CROSS SECTIONS 13

SHEET ID
OPT #2
2-C-329



EXISTING GRADE
FINISHED GRADE
FILL OR CUT

LEGEND



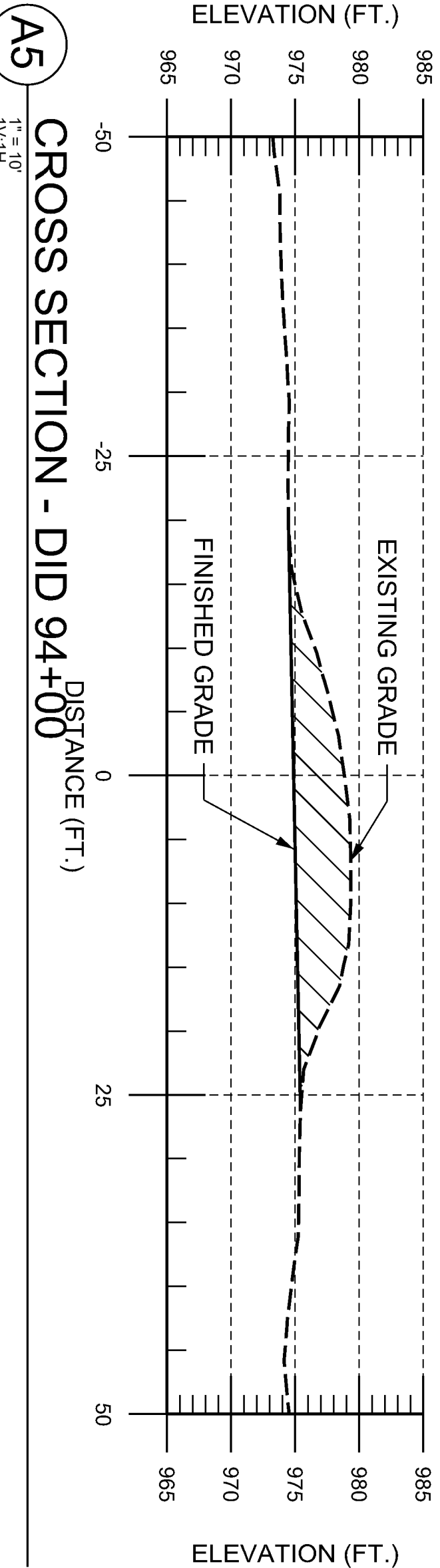
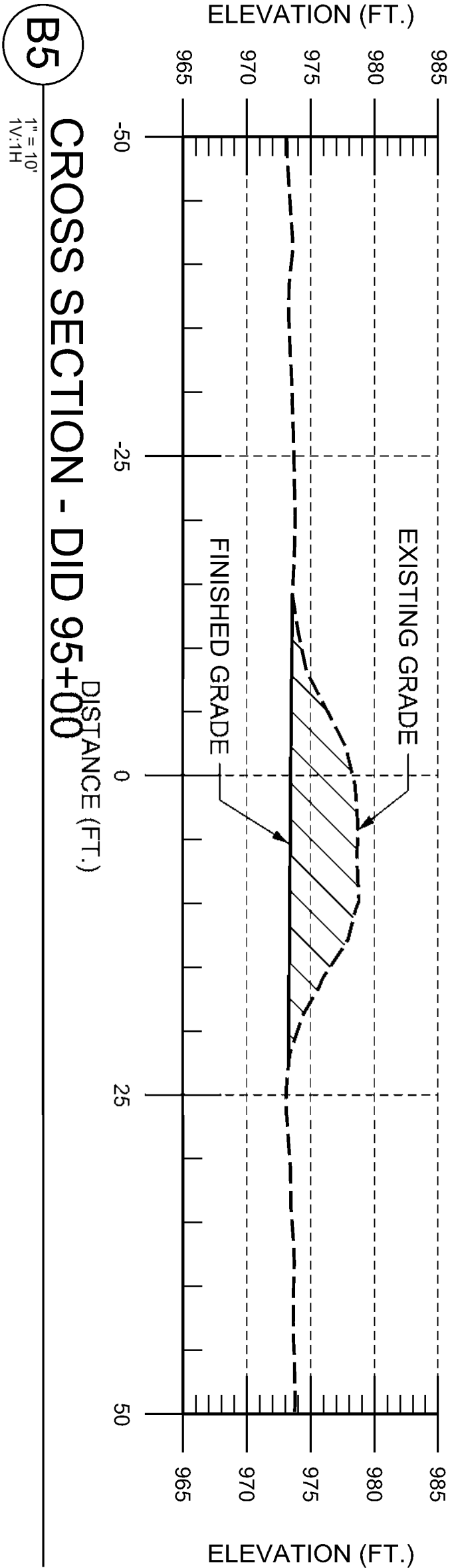
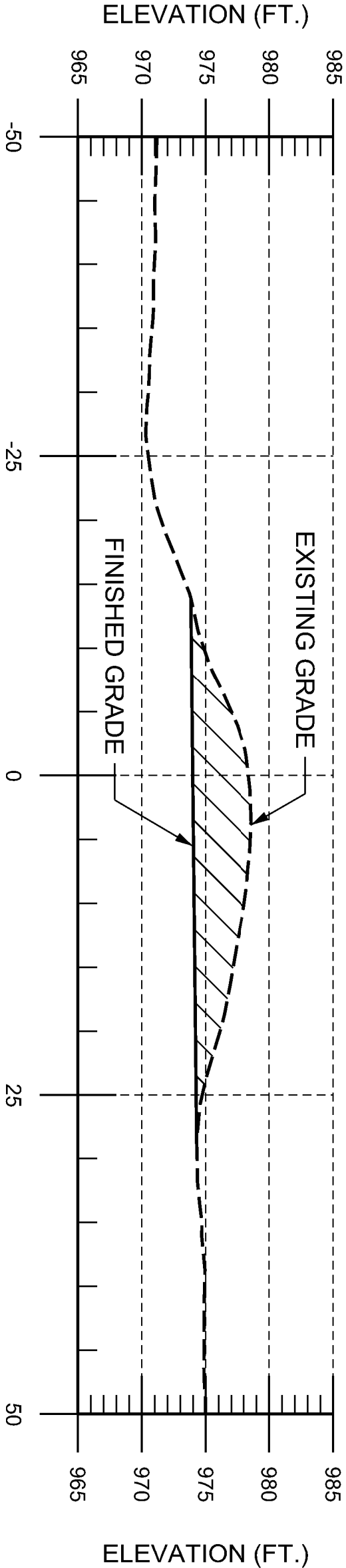
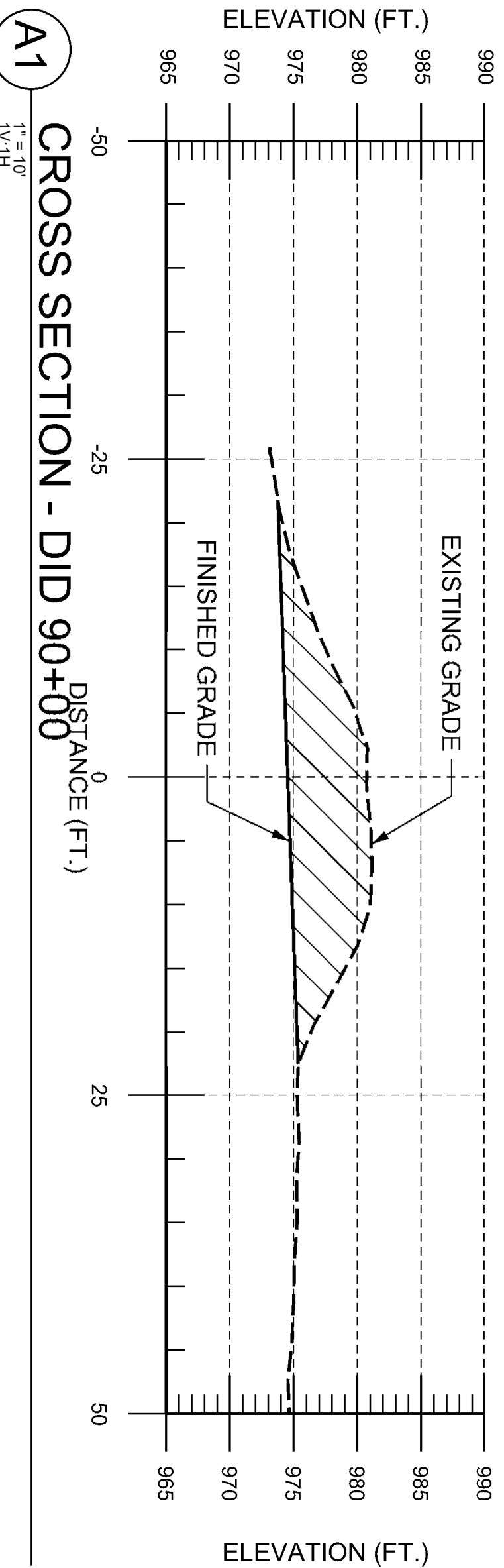
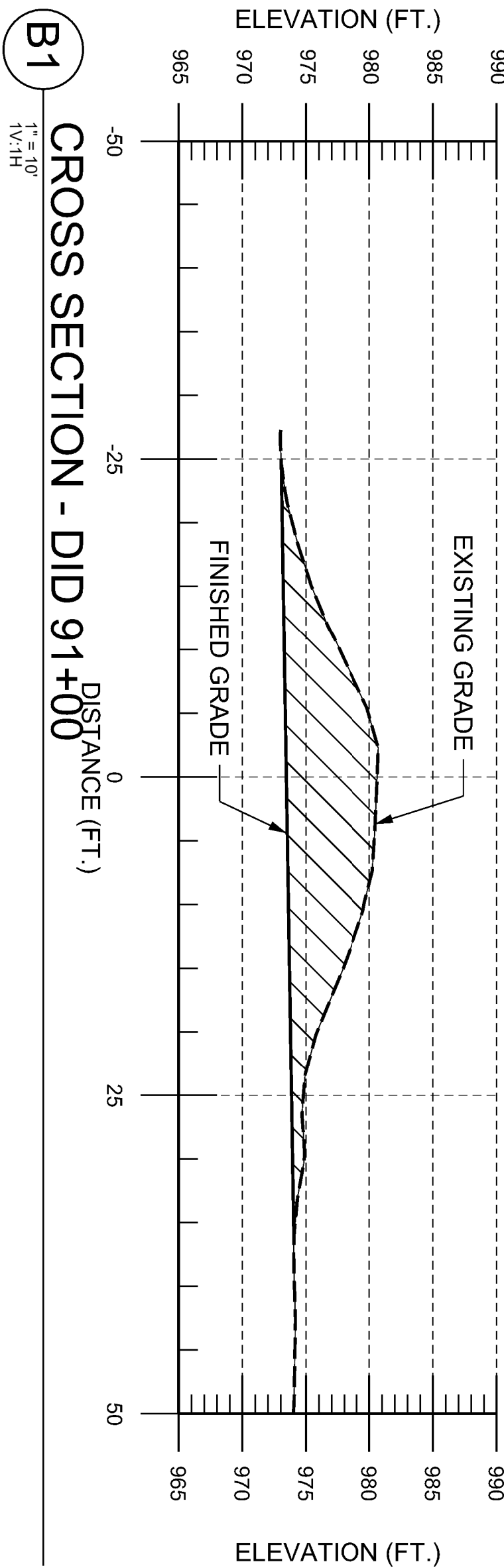
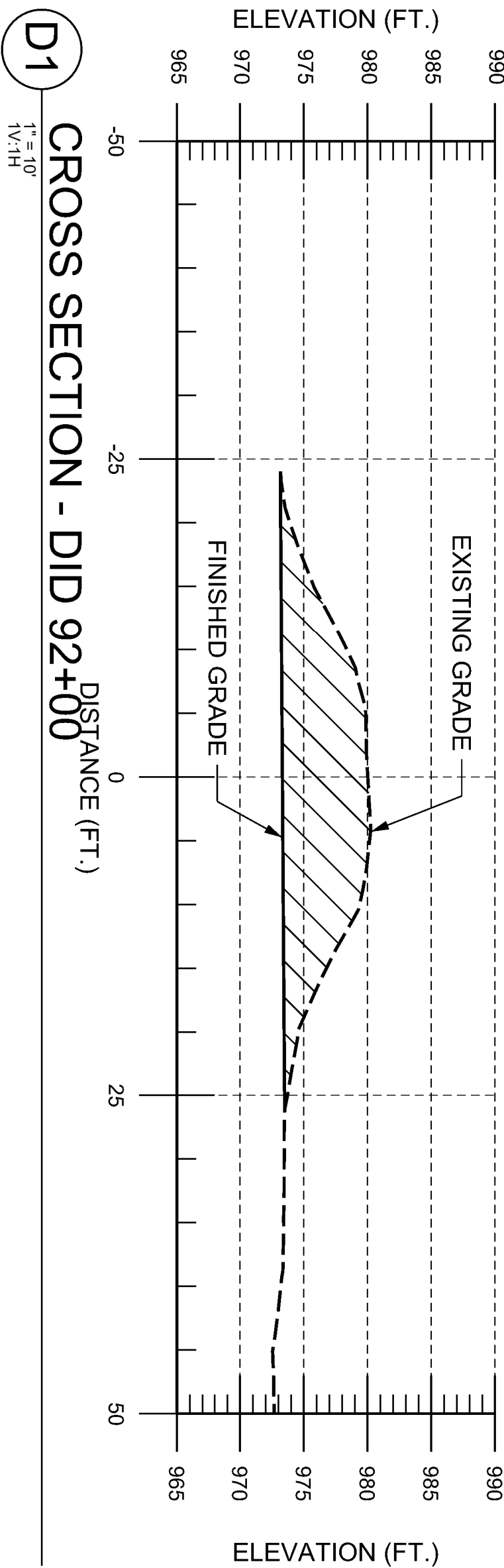
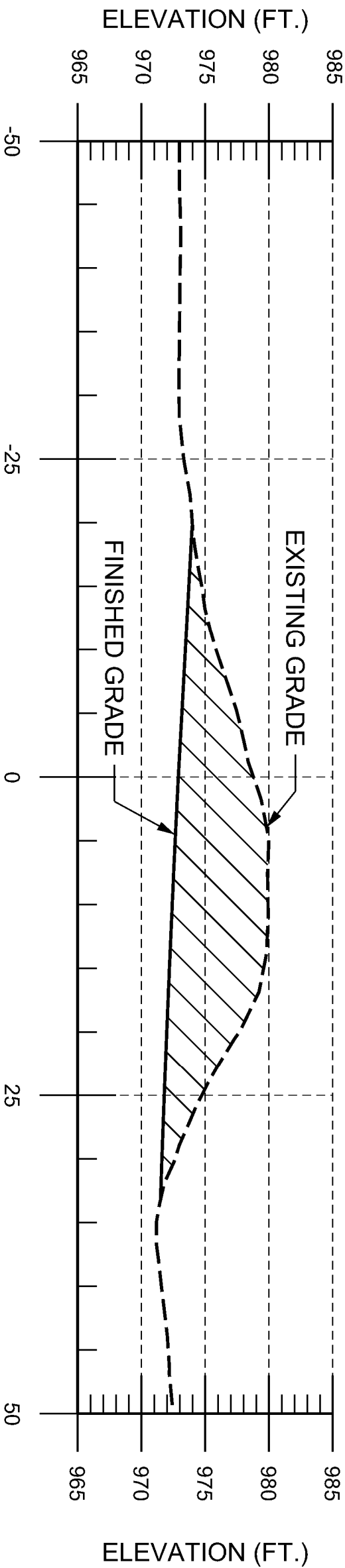
MARK	DESCRIPTION

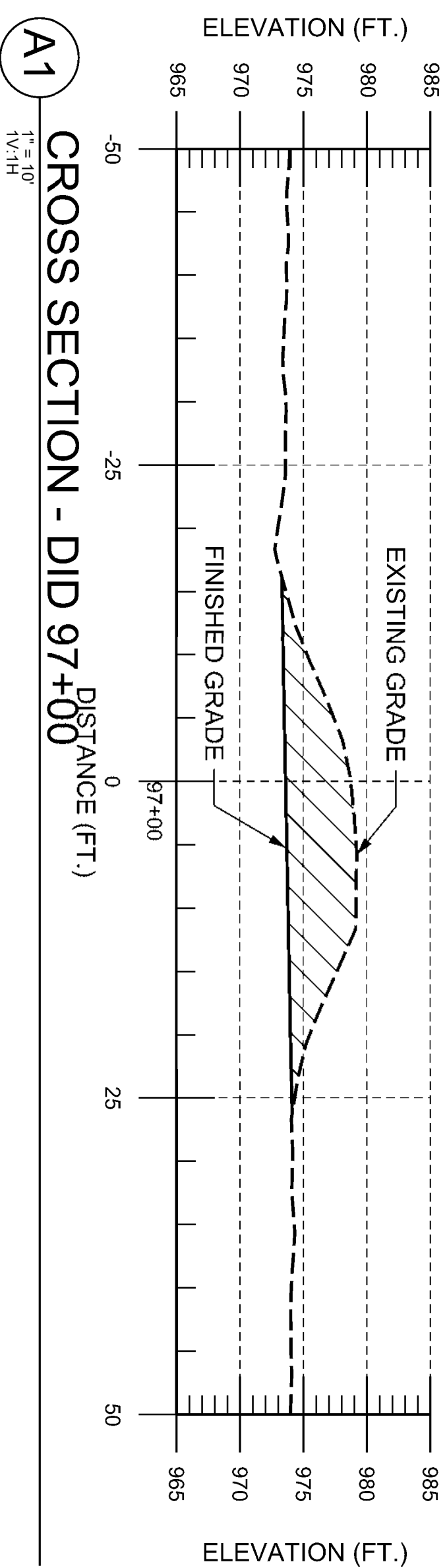
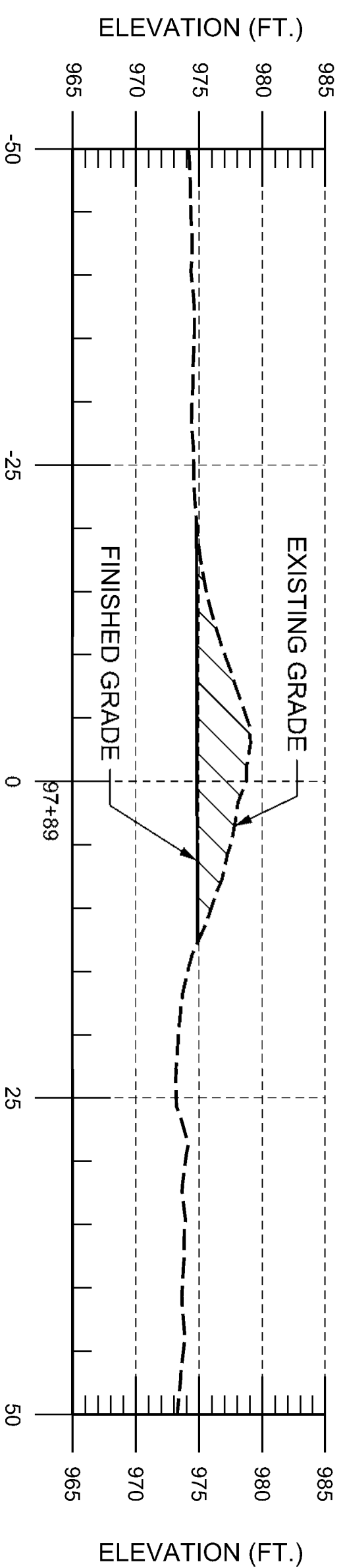
DATE

DESIGNED BY: L. FORD		ISSUE DATE: 31 MAY 2022	
DWN BY: J. BARRETT		SOLICITATION NO.:	
CKD BY: G. KATO		CONTRACT NO.:	
SUBMITTED BY: STEPHANIE McKENNA		FILE NUMBER: D-8-4-109	
SIZE: ANSI D			



YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON
DID #1 LEVEE DEGRATION CROSS SECTIONS 14

SHEET ID OPT #2 2-C-330





LEGEND

	EXISTING GRADE
	FINISHED GRADE
	FILL OR CUT

MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

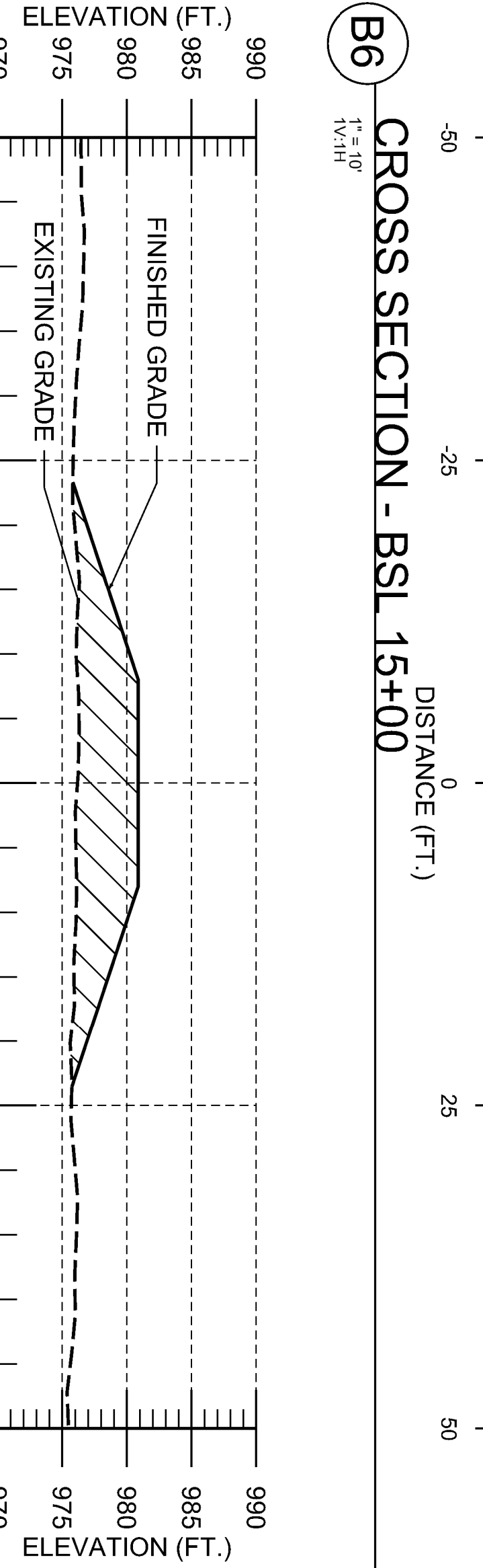
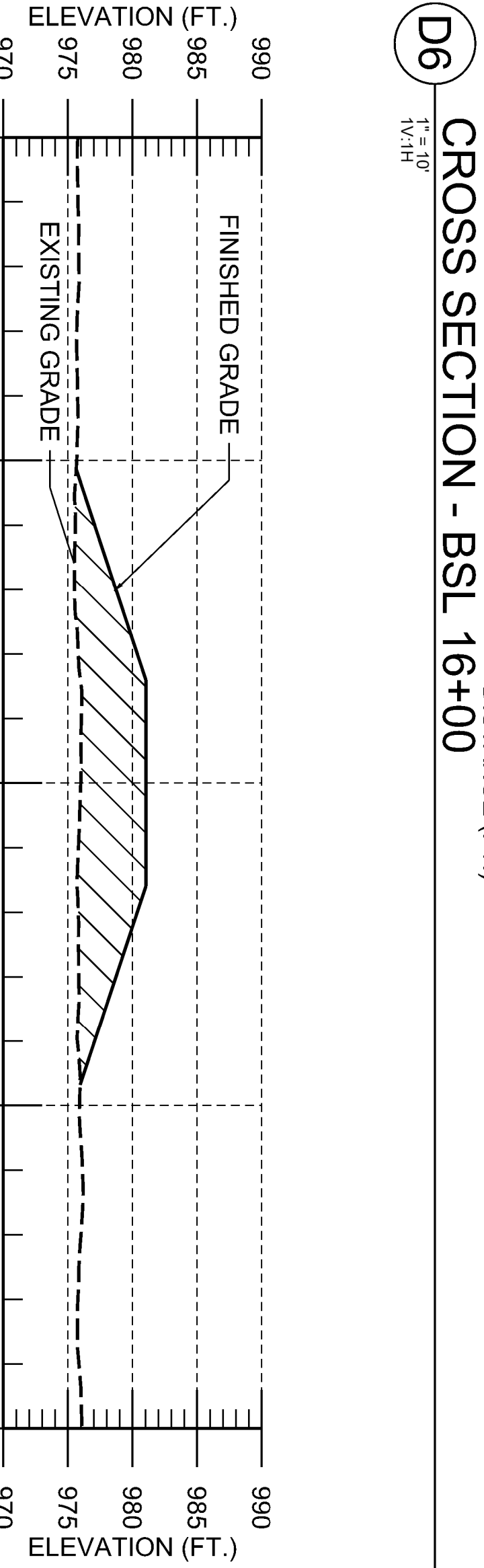
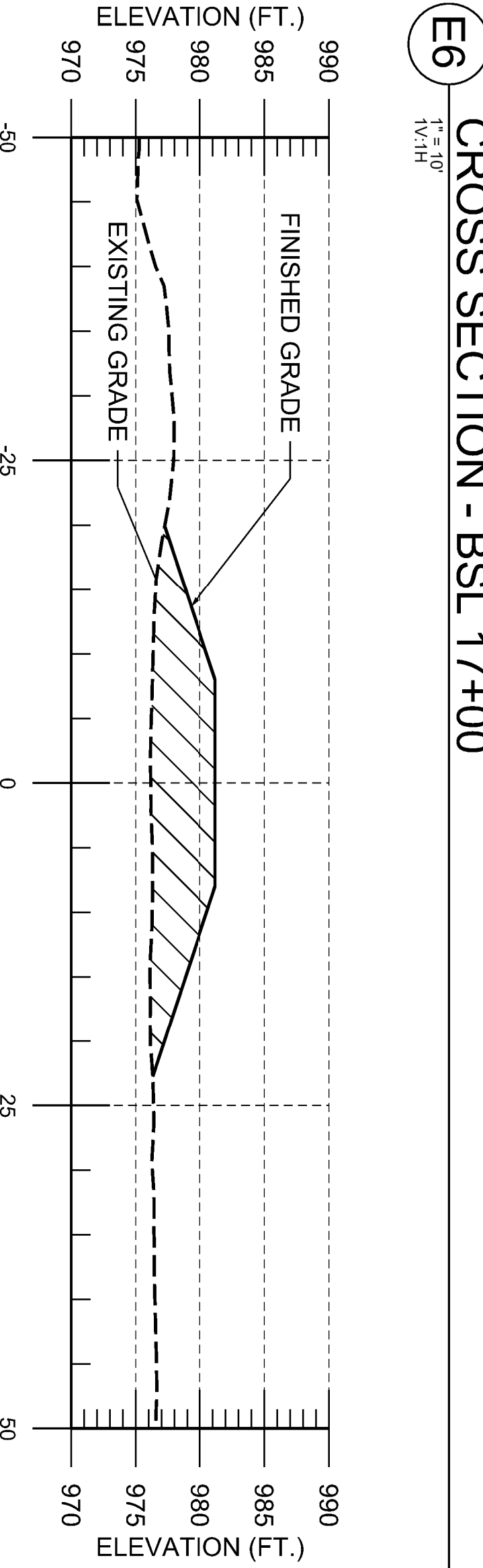
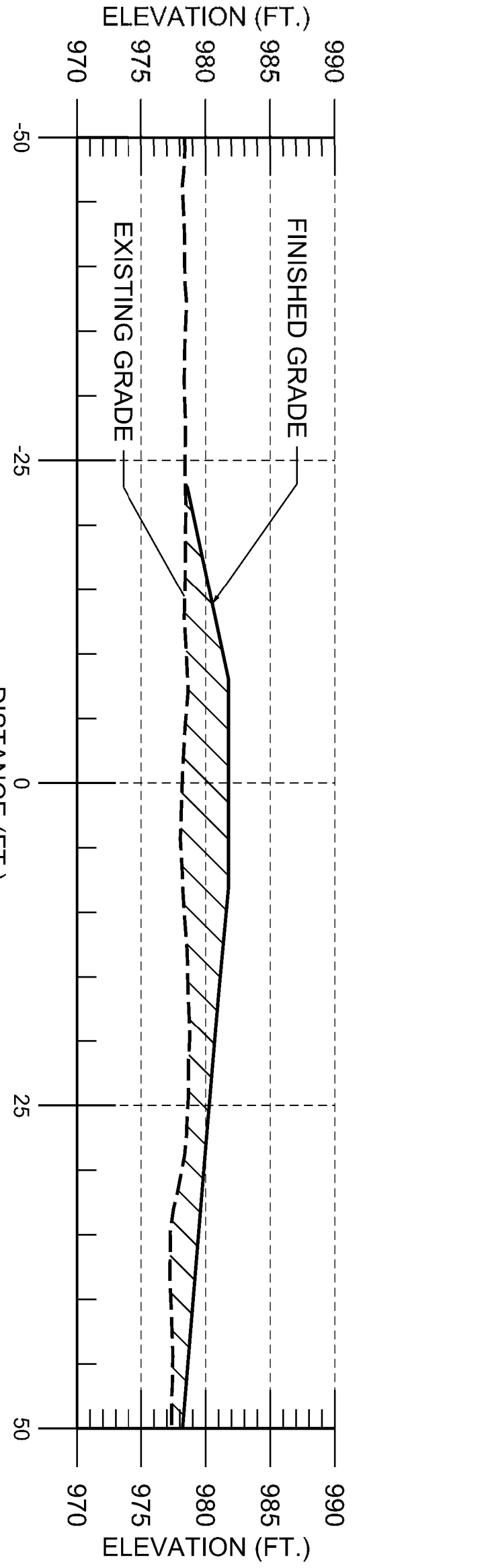
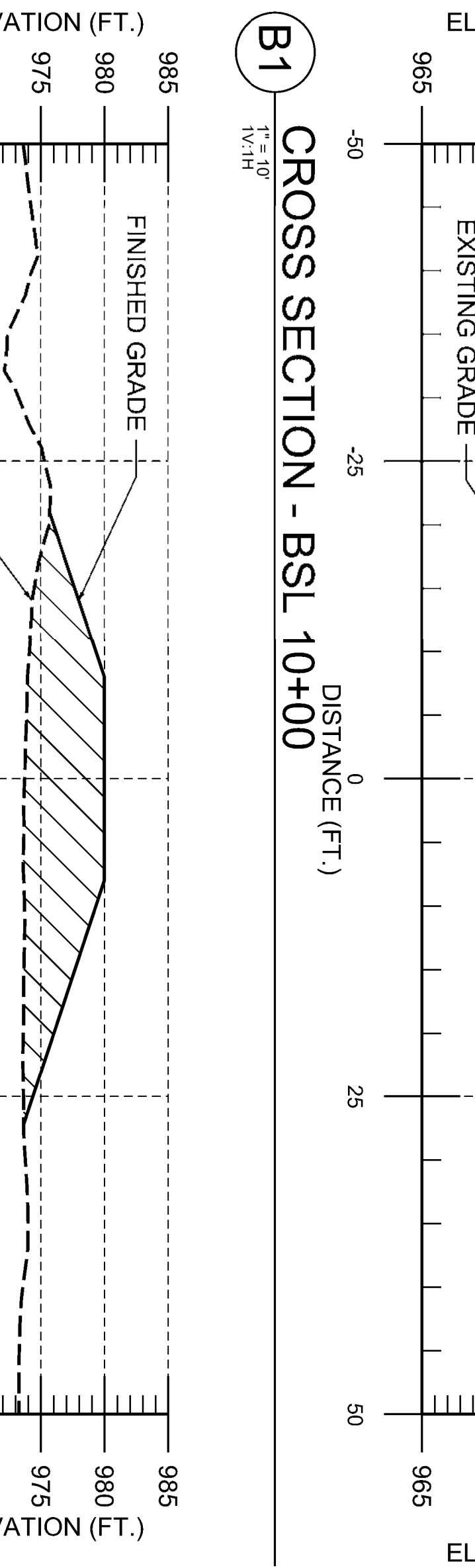
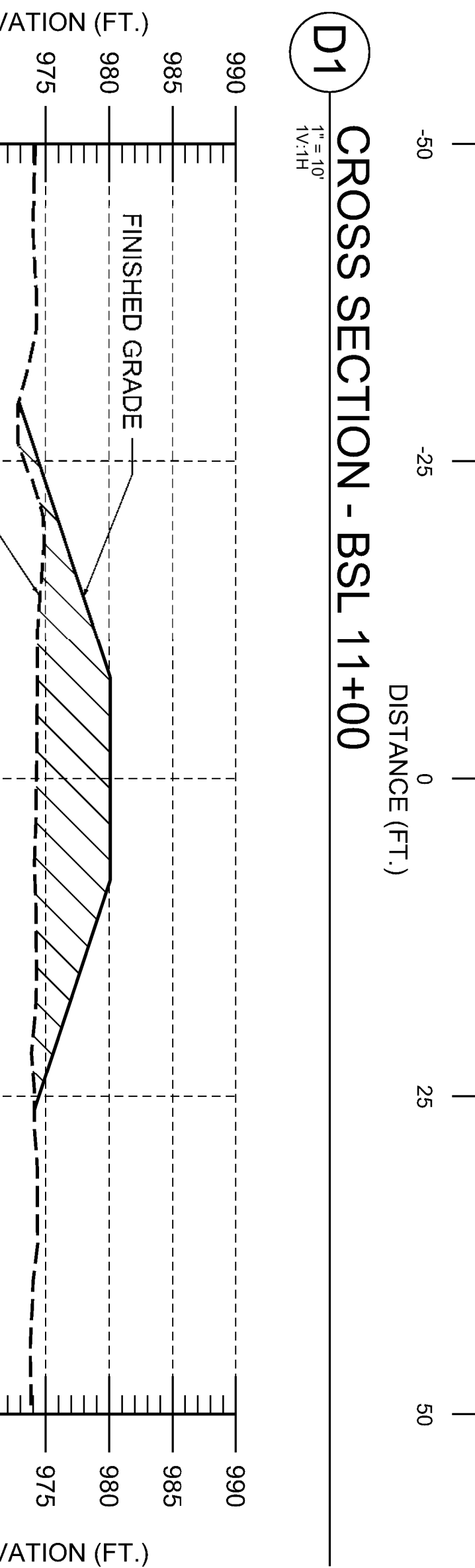
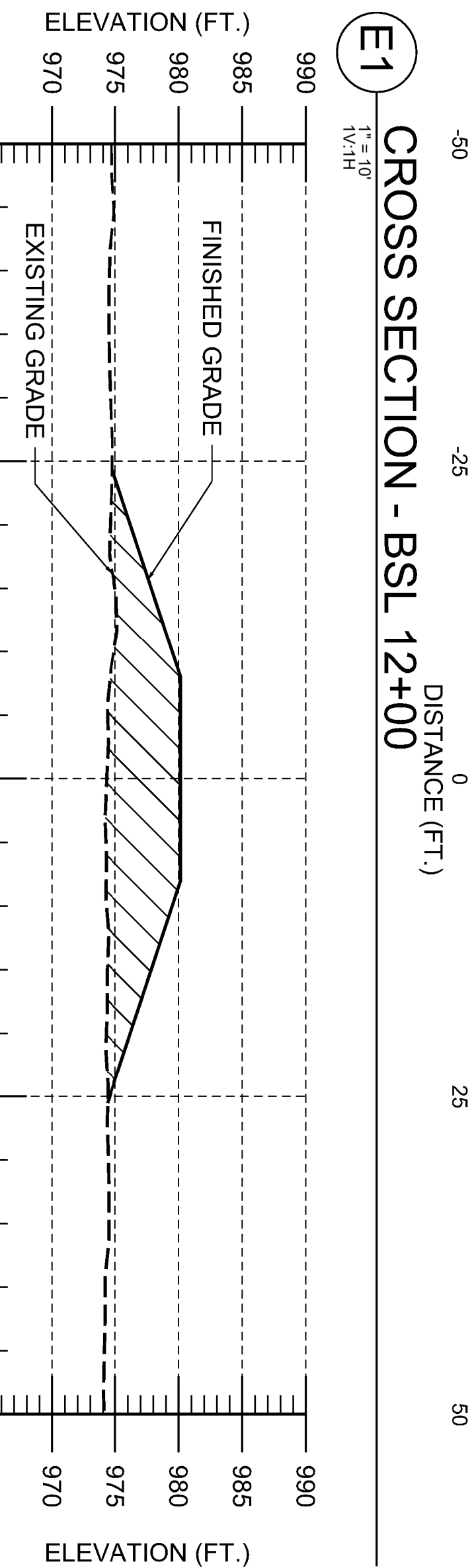
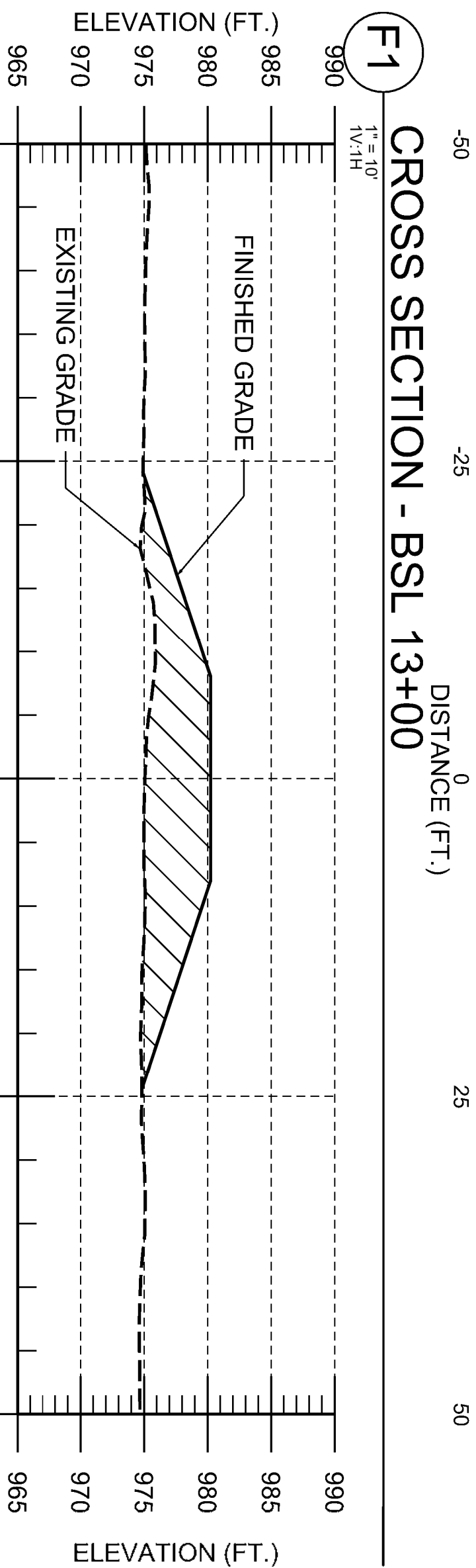
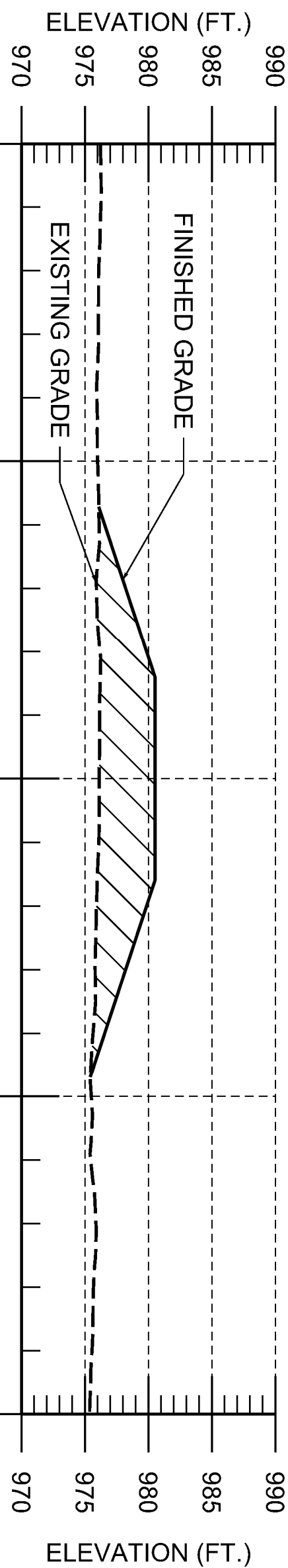
YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

DID #1 LEVEE DEGRADATION
CROSS SECTIONS 15

SHEET ID
OPT #2
2-C-331



US Army Corps
of Engineers®



LEGEND

EXISTING GRADE

FINISHED GRADE

FILL OR CUT

US Army Corps
of Engineers ©

MARK	DESCRIPTION	DATE

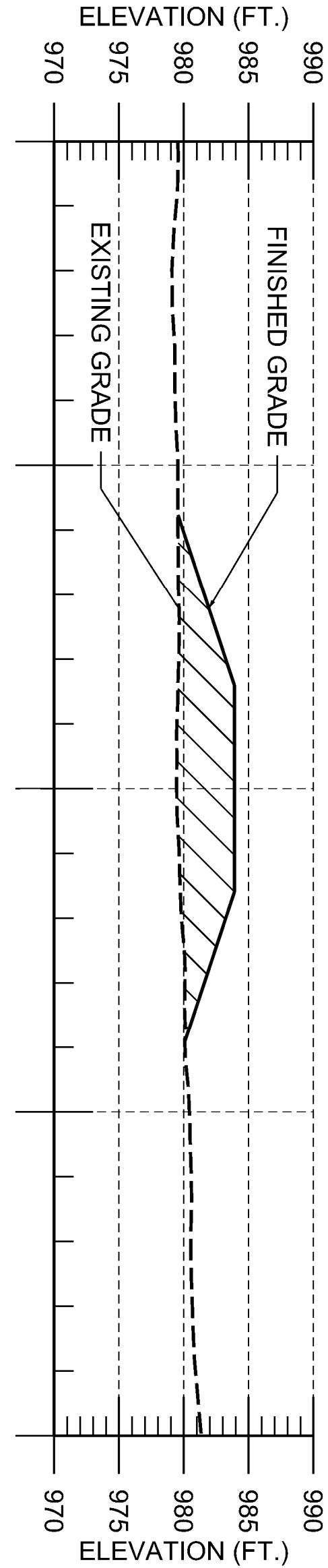
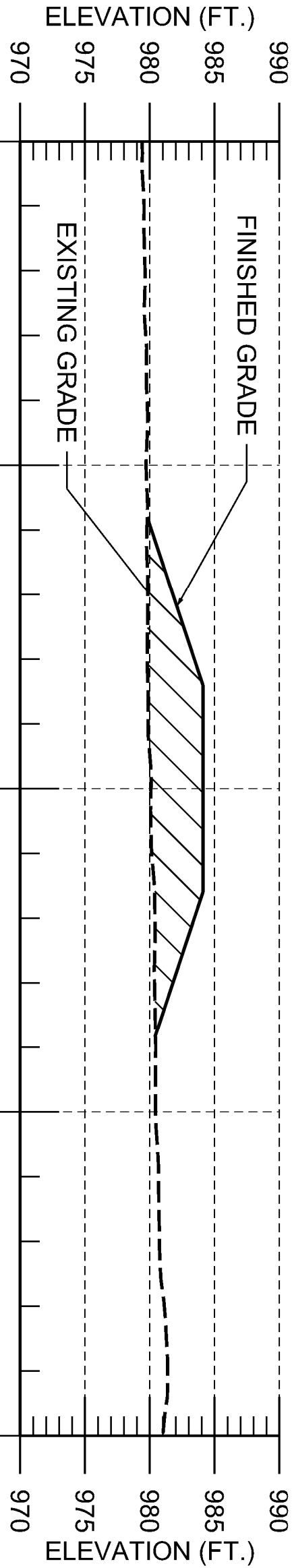
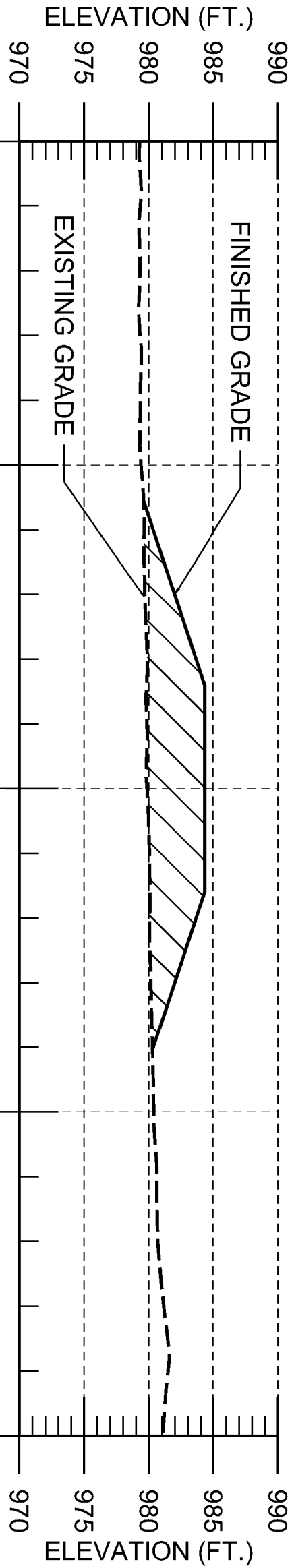
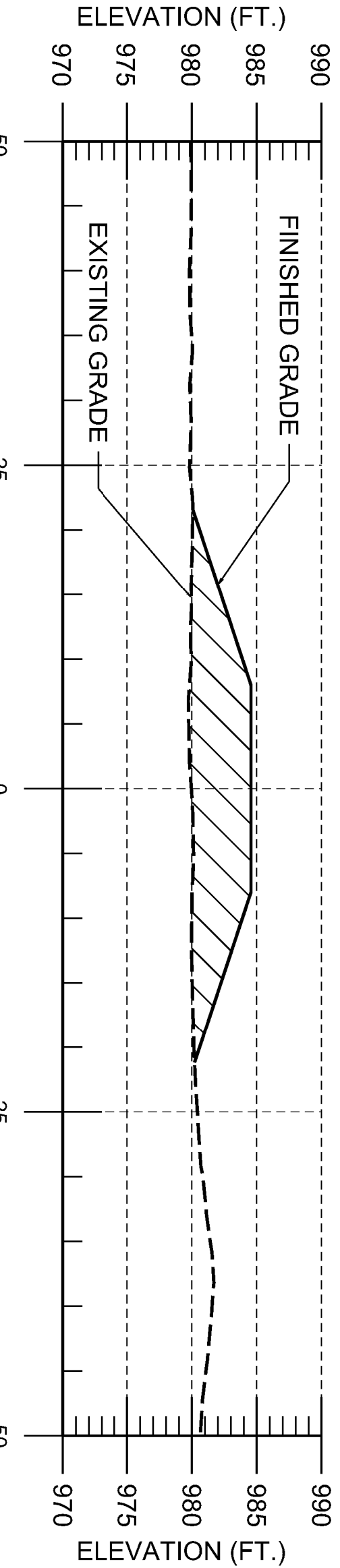
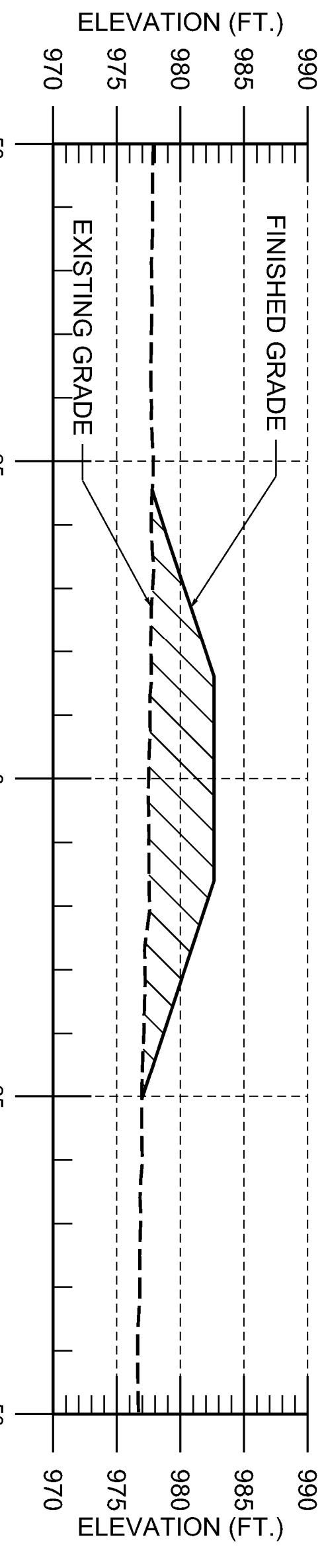
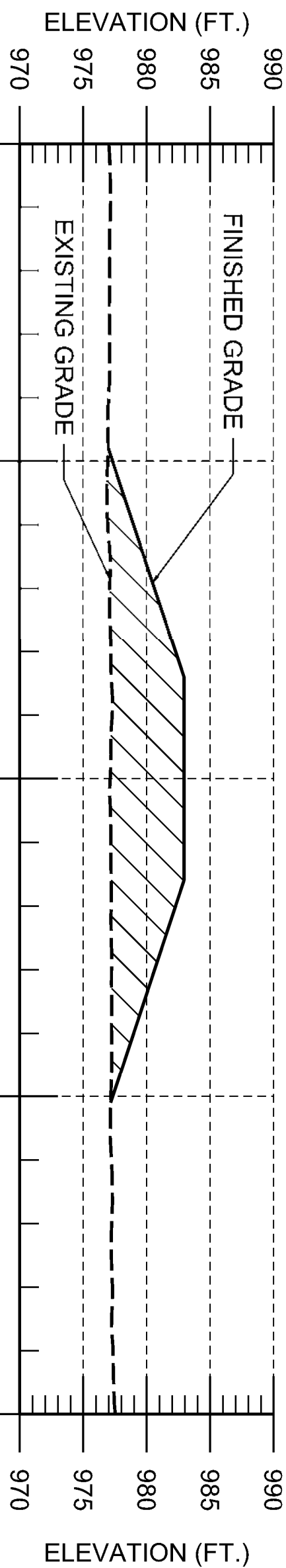
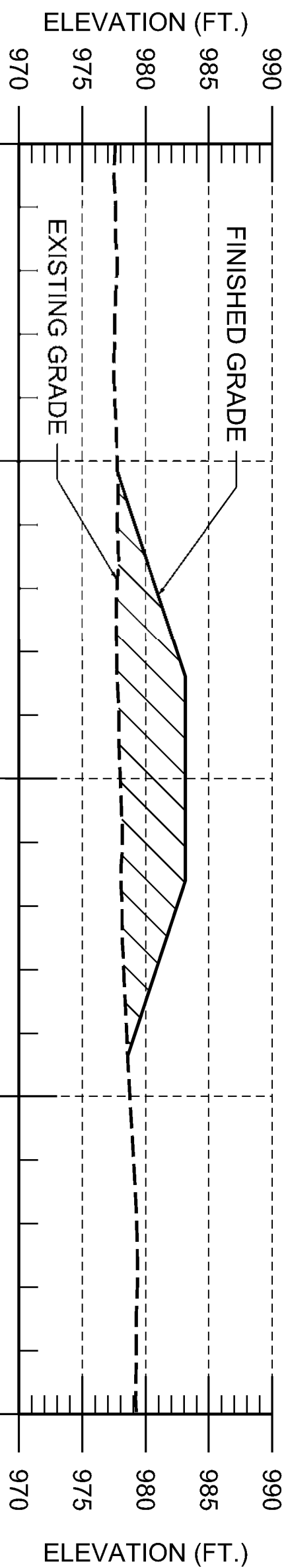
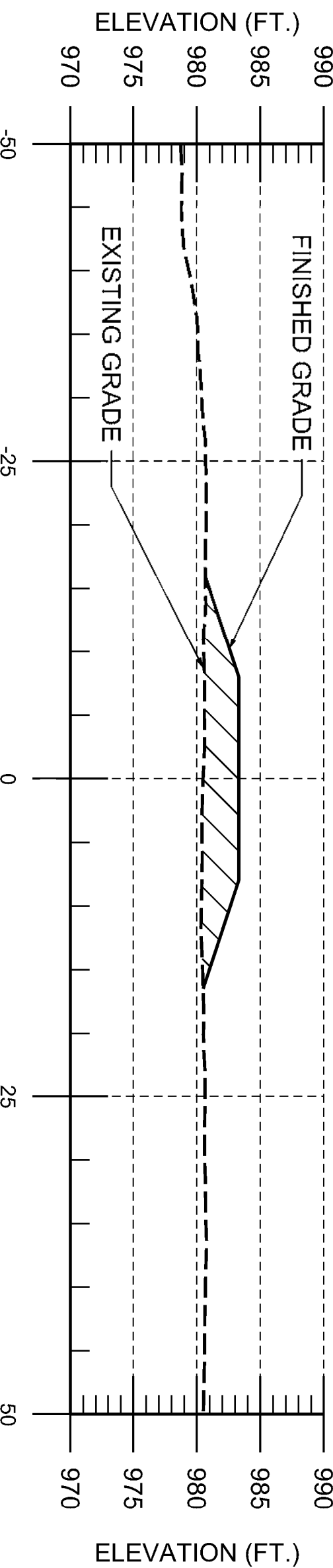
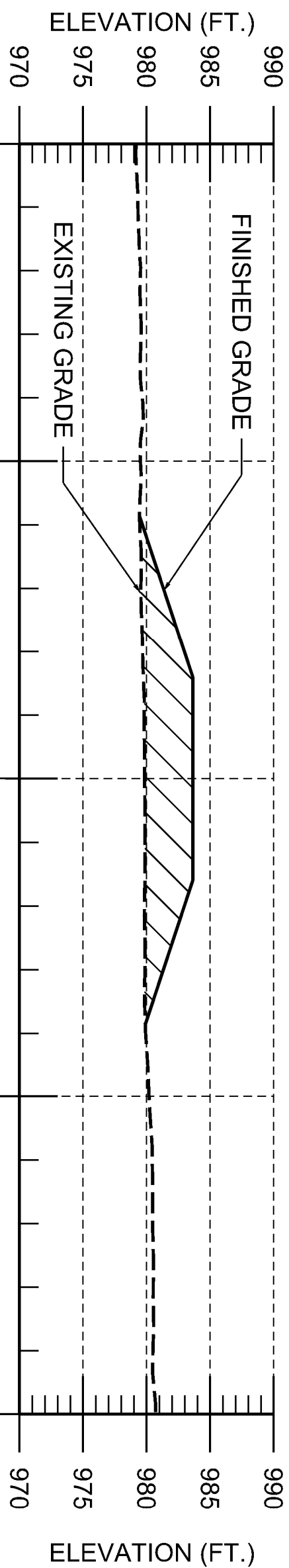
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLE SLOUGH LEVEE
CROSS SECTIONS 2

SHEET ID
OPT #2
2-C-335



LEGEND

- EXISTING GRADE
- FINISHED GRADE
- FILL OR CUT



US Army Corps
of Engineers ©

DATE

MARK	DESCRIPTION

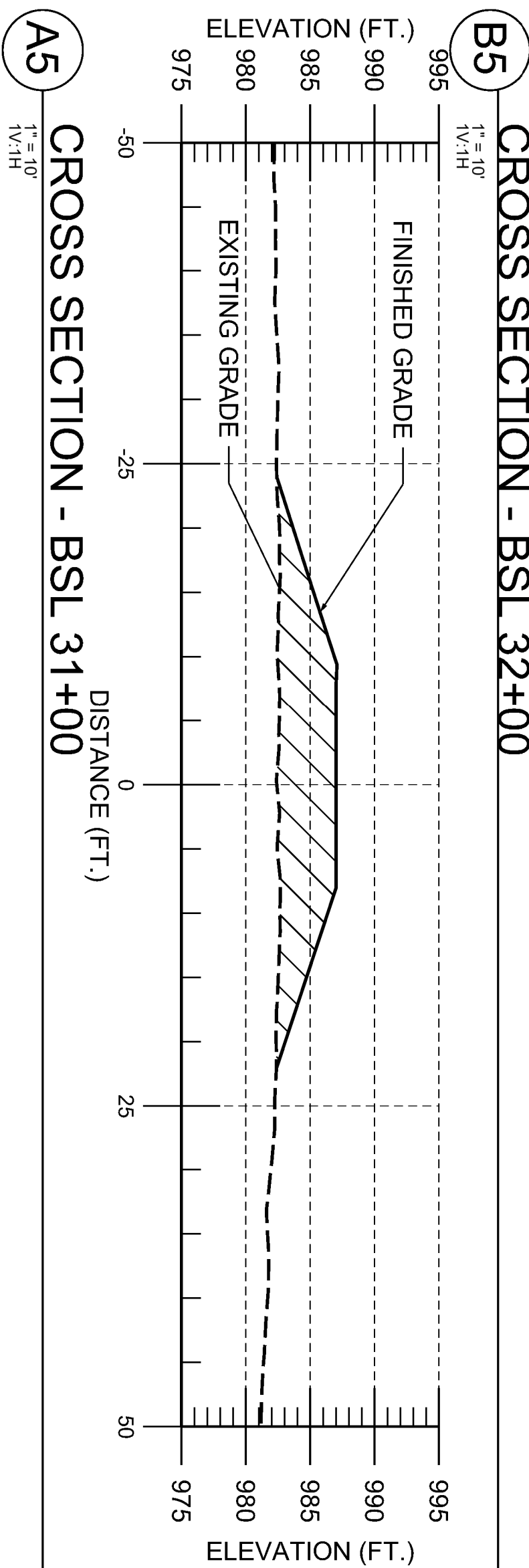
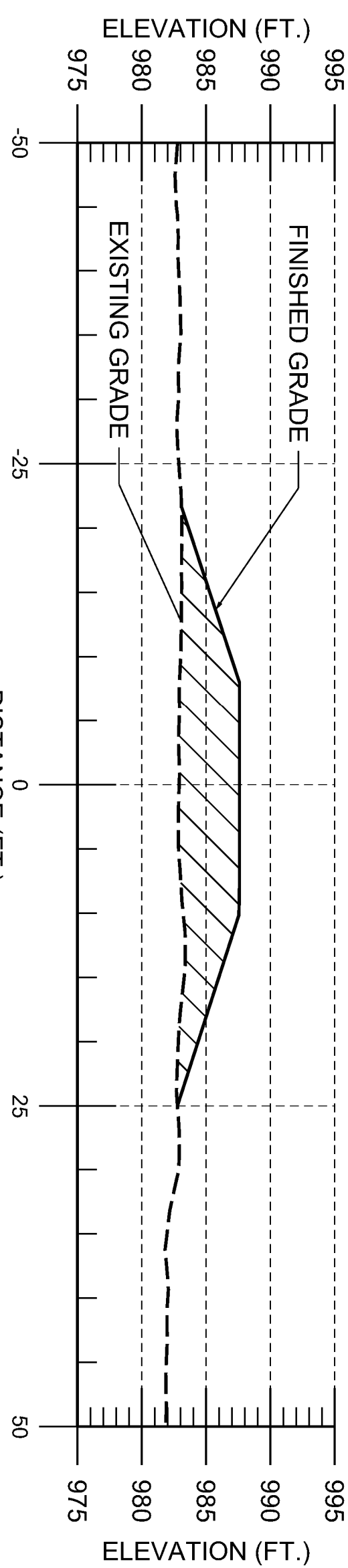
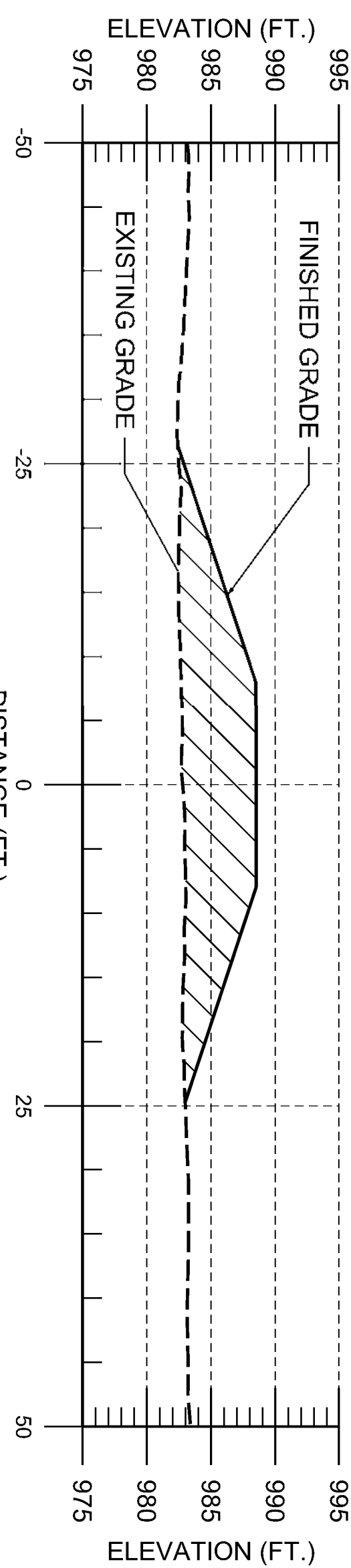
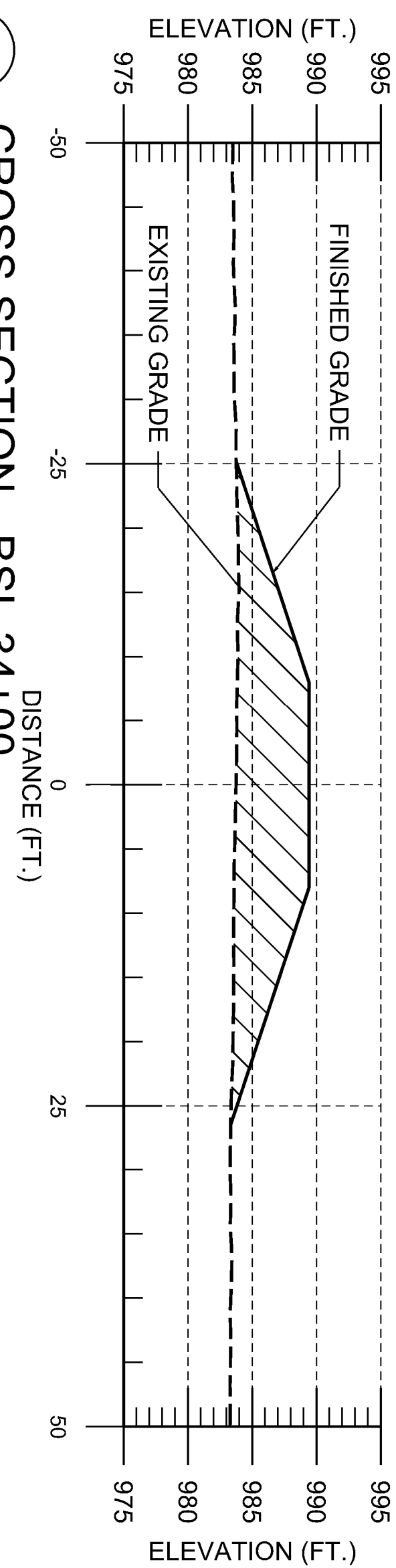
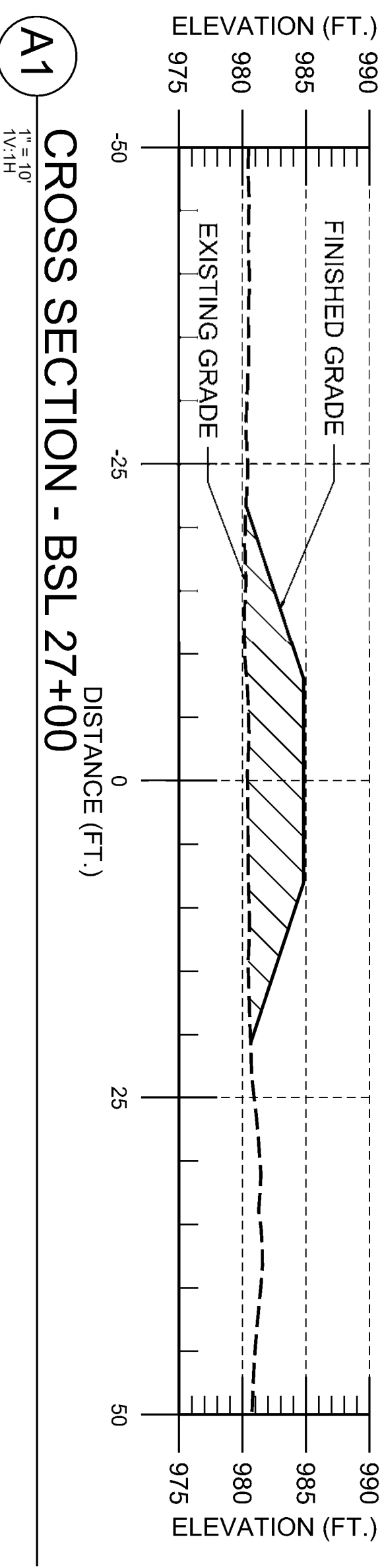
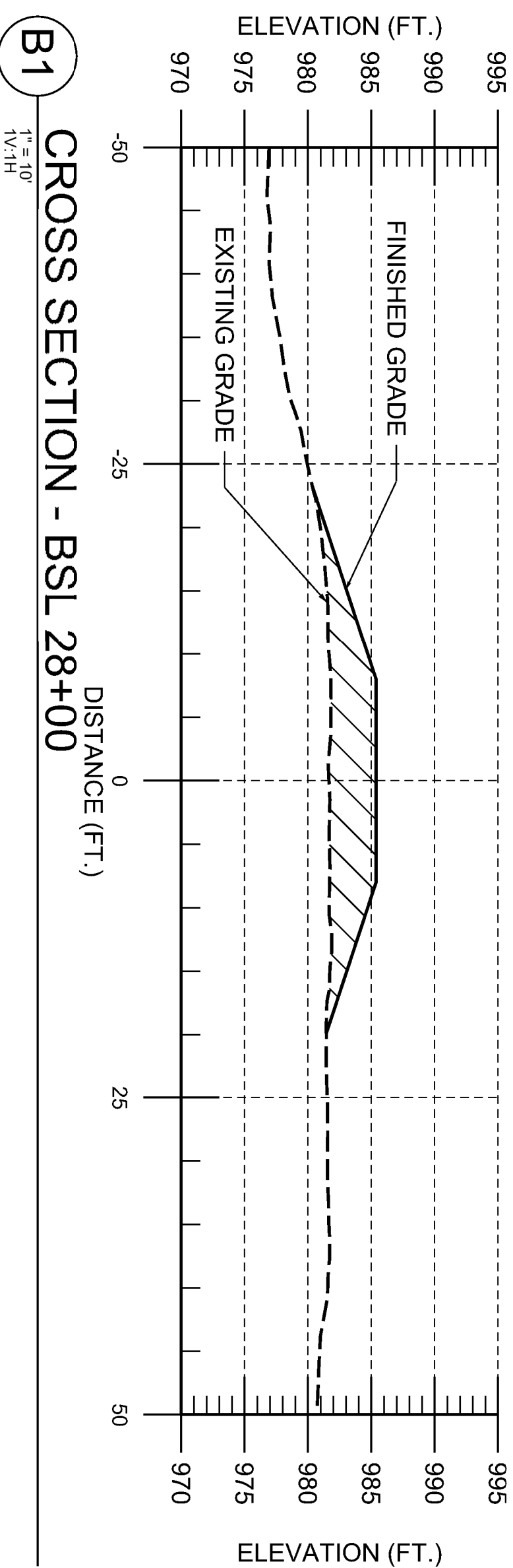
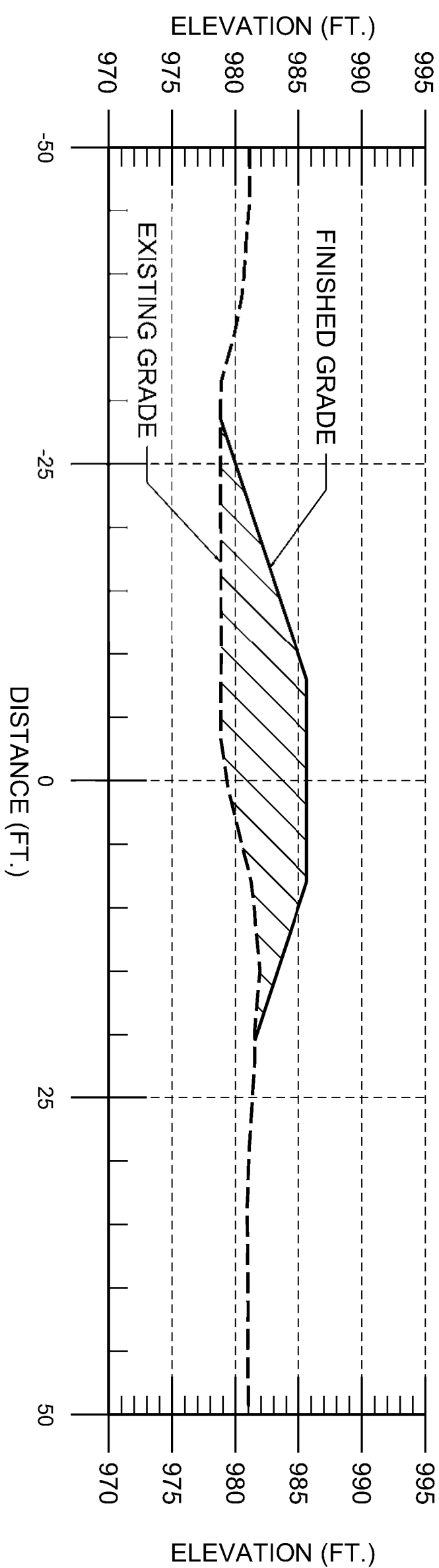
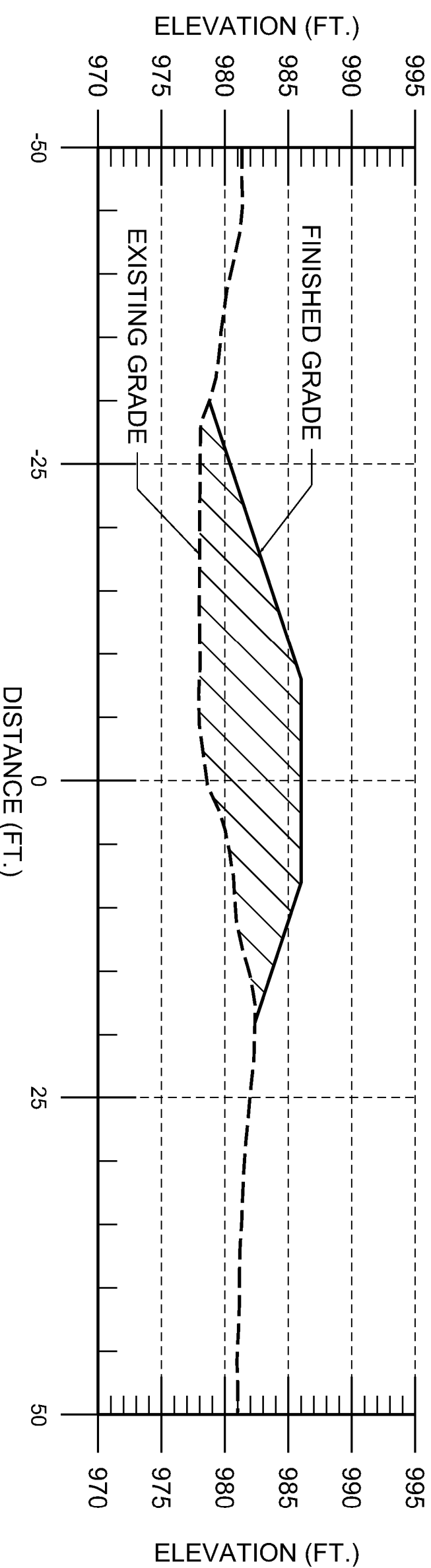
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLE SLOUGH LEVEE
CROSS SECTIONS 3

SHEET ID
OPT #2
2-C-336

[illegible]

MARK	DESCRIPTION	DATE

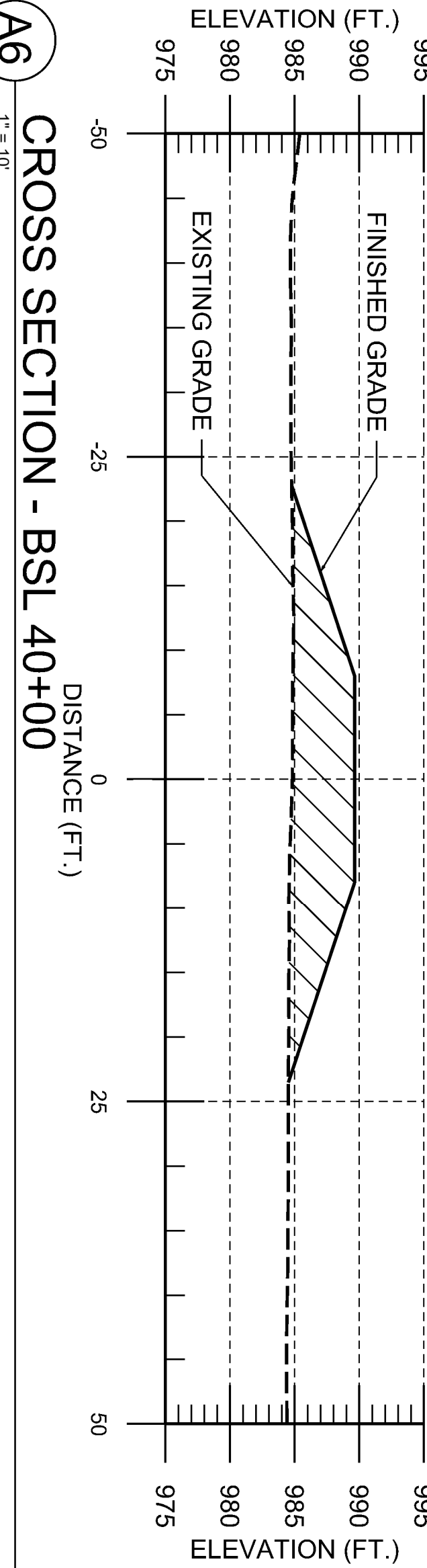
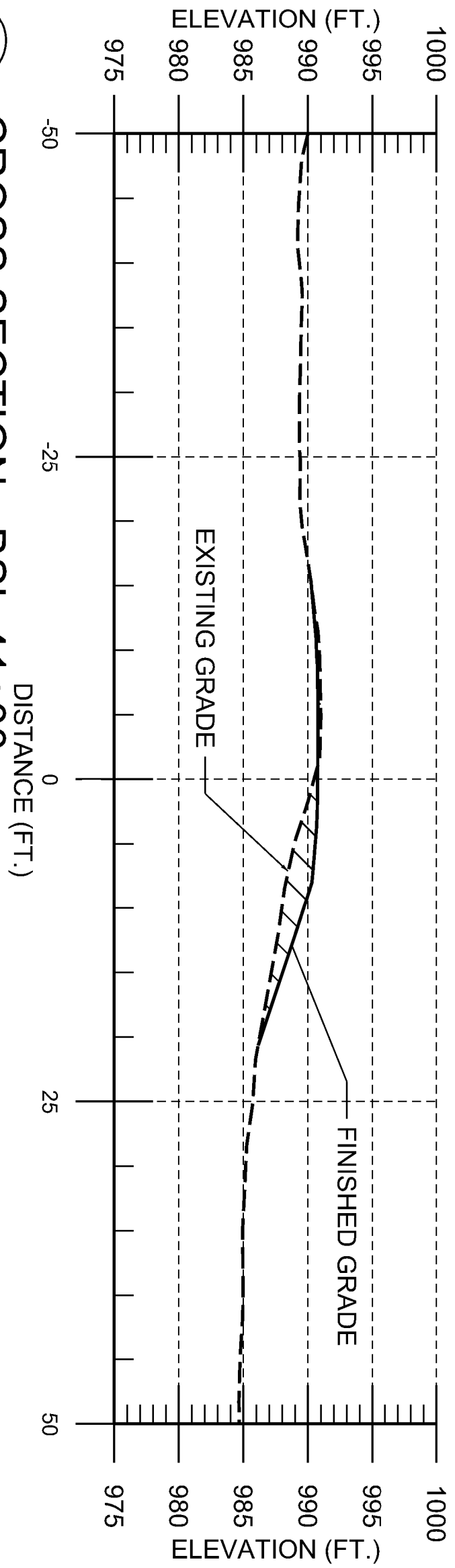
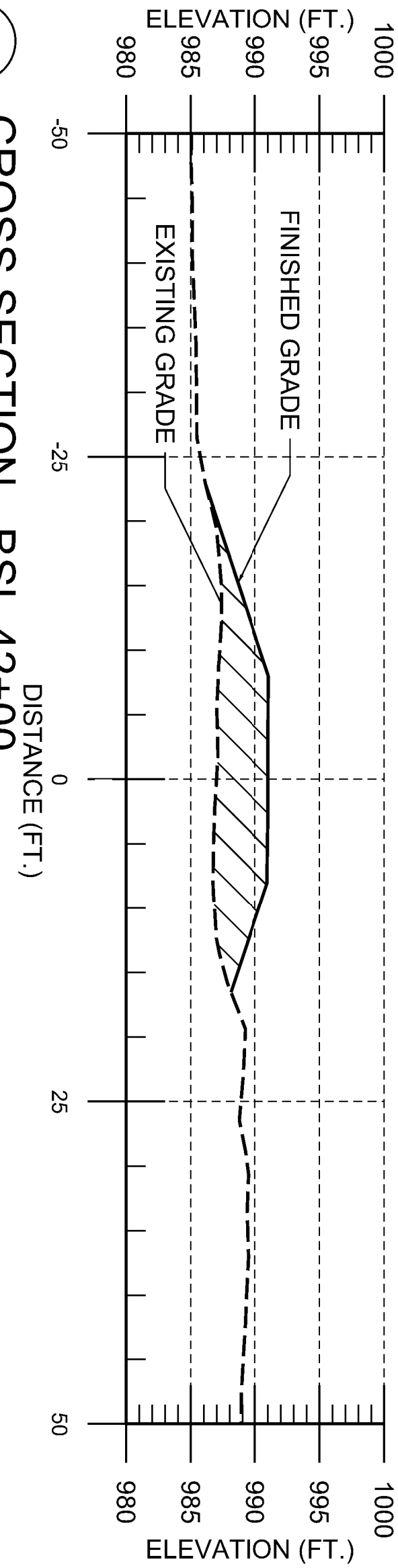
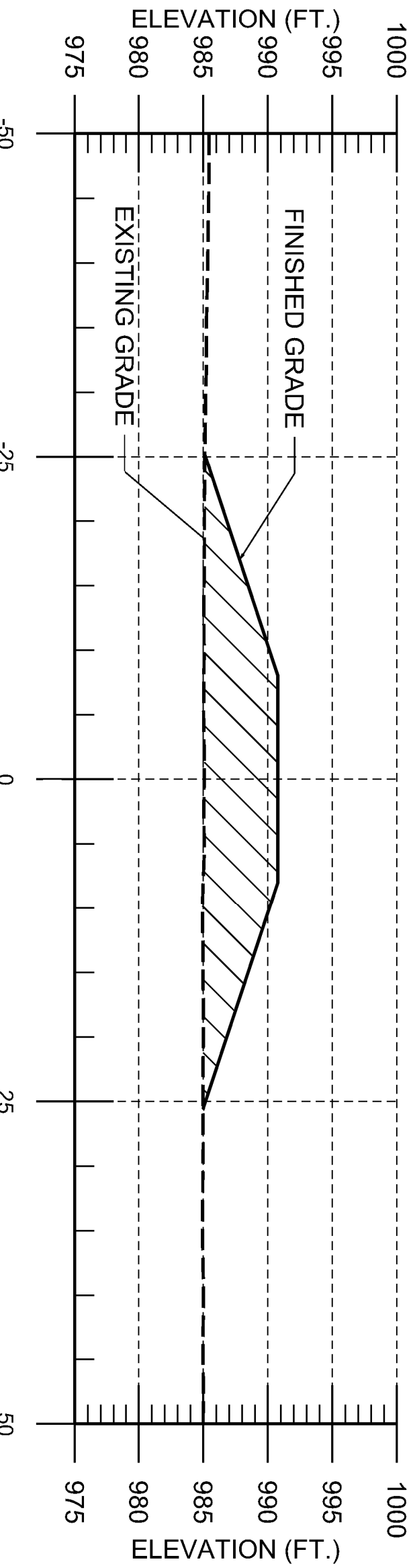
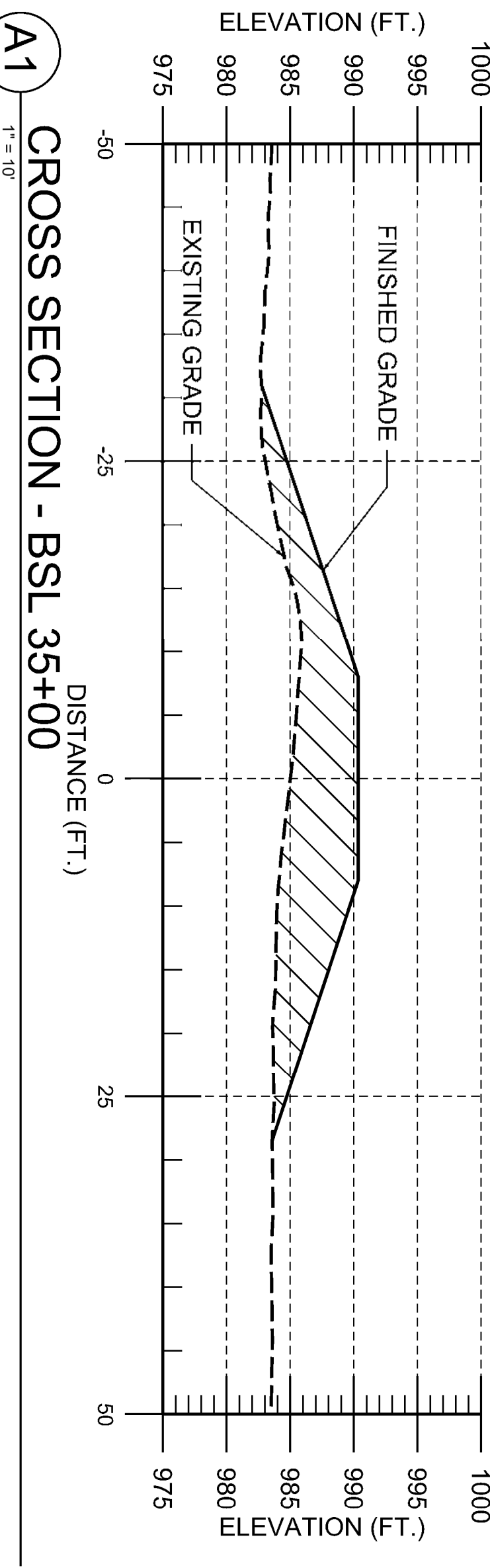
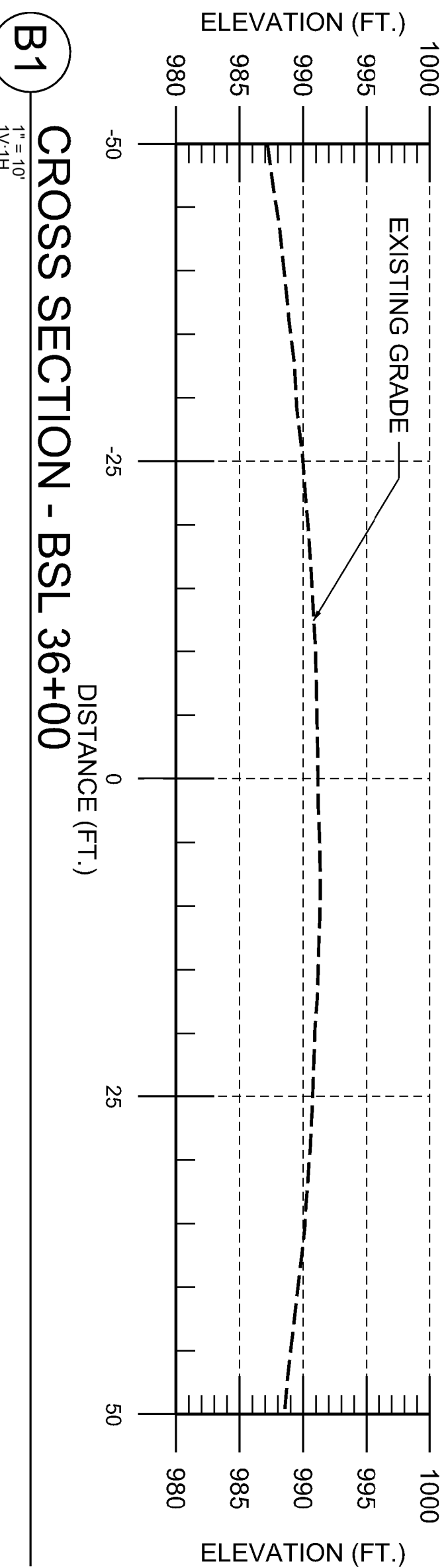
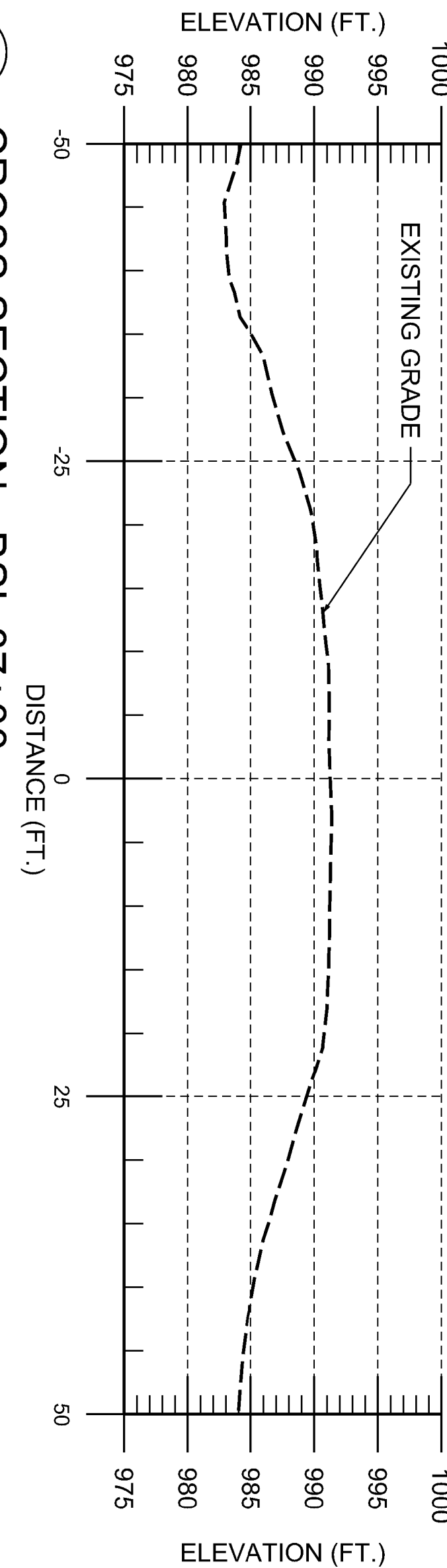
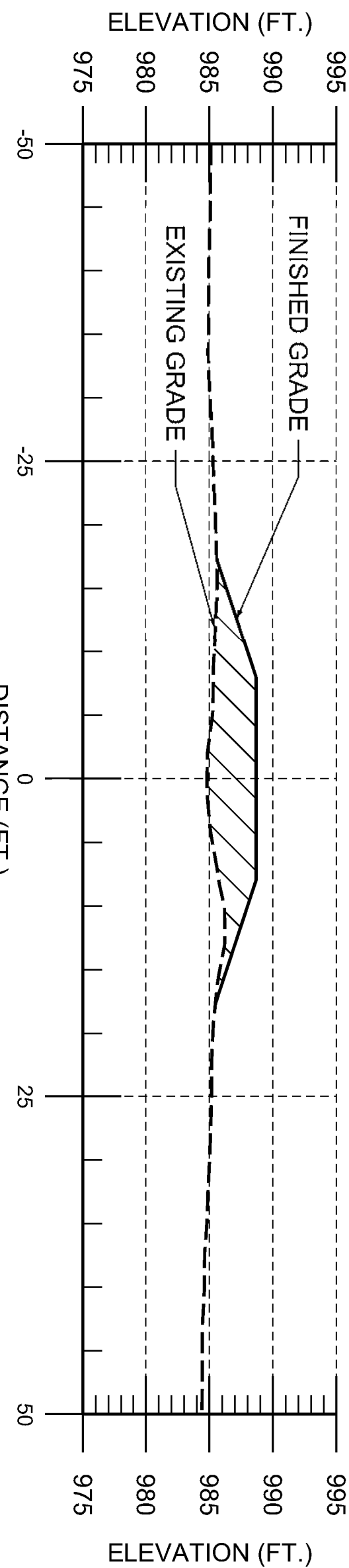
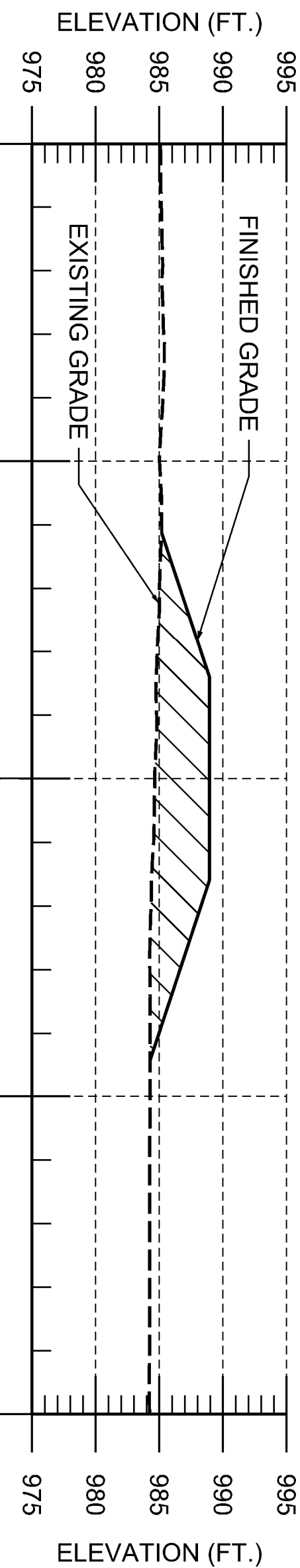
DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
SEATTLE, WASHINGTON

YAKIMA 1135
SECTION 1135 ECOSYSTEM RESTORATION
YAKIMA, WASHINGTON

BLE SLOUGH LEVEE
CROSS SECTIONS 4

SHEET ID
OPT #2
2-C-337



LEGEND

EXISTING GRADE

FINISHED GRADE

FILL OR CUT

US Army Corps
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MARK	DESCRIPTION	DATE

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARRETT	SOLICITATION NO.:
CKD BY: G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE McKENNA	FILE NUMBER: D-8-4-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	
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YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	BLE SLOUGH LEVEE CROSS SECTIONS 5
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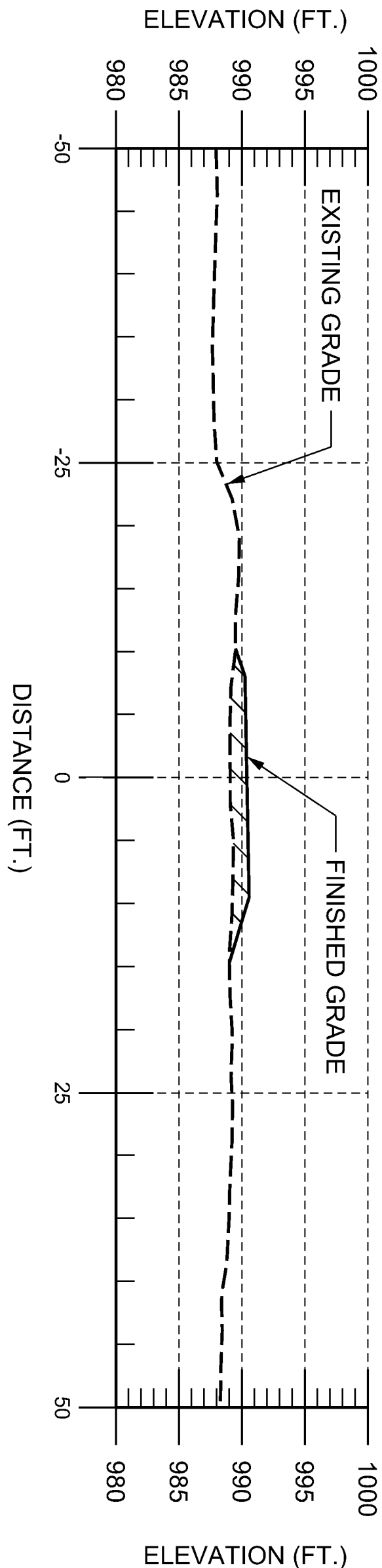
SHEET ID OPT #2 2-C-338

LEGEND

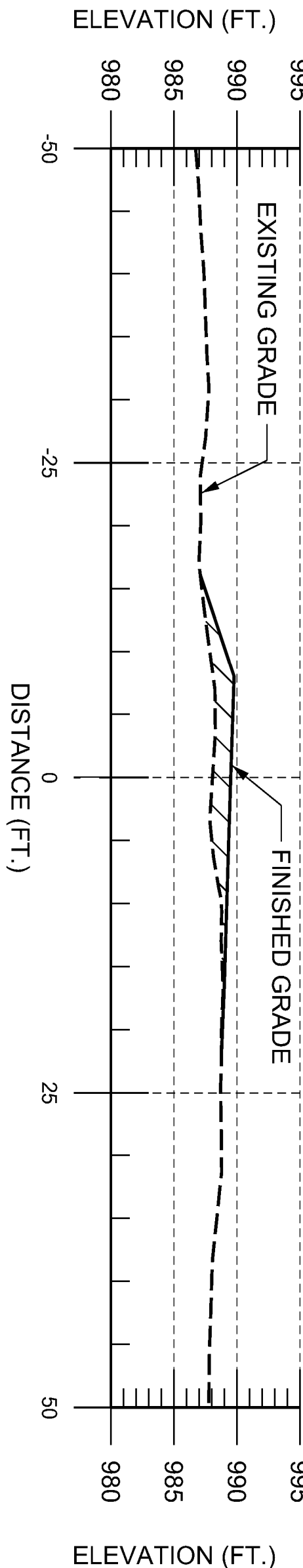
EXISTING GRADE

FINISHED GRADE

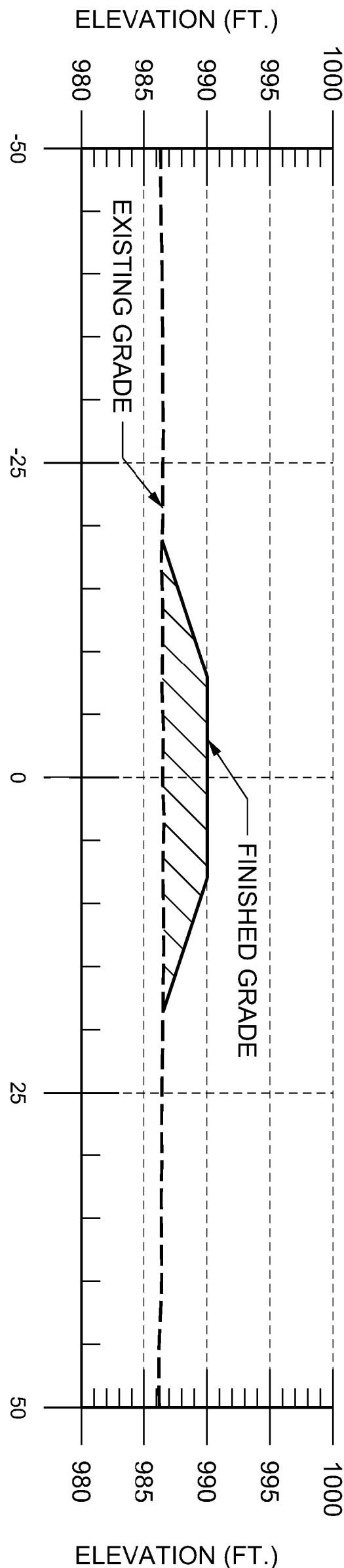
FILL OR CUT



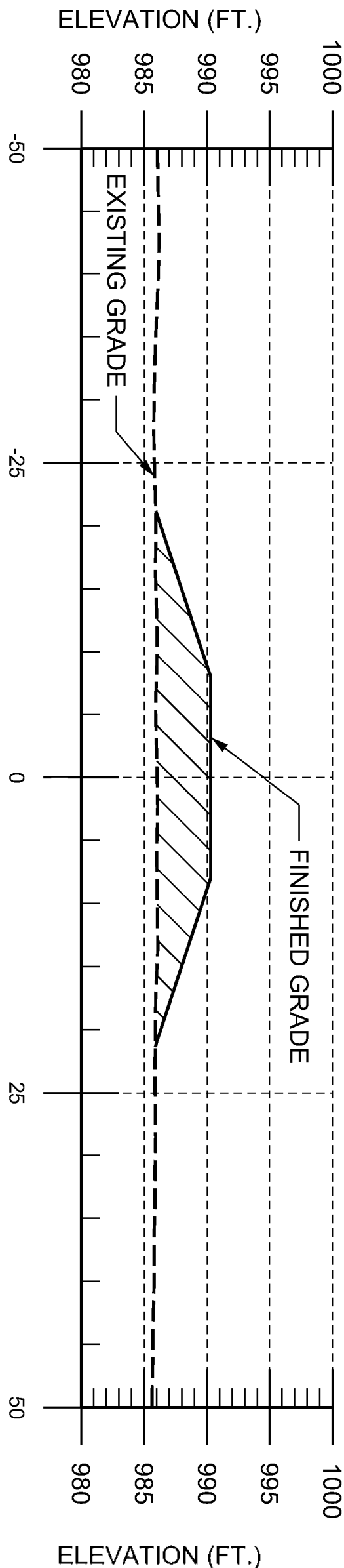
F1 CROSS SECTION - BSL 48+00



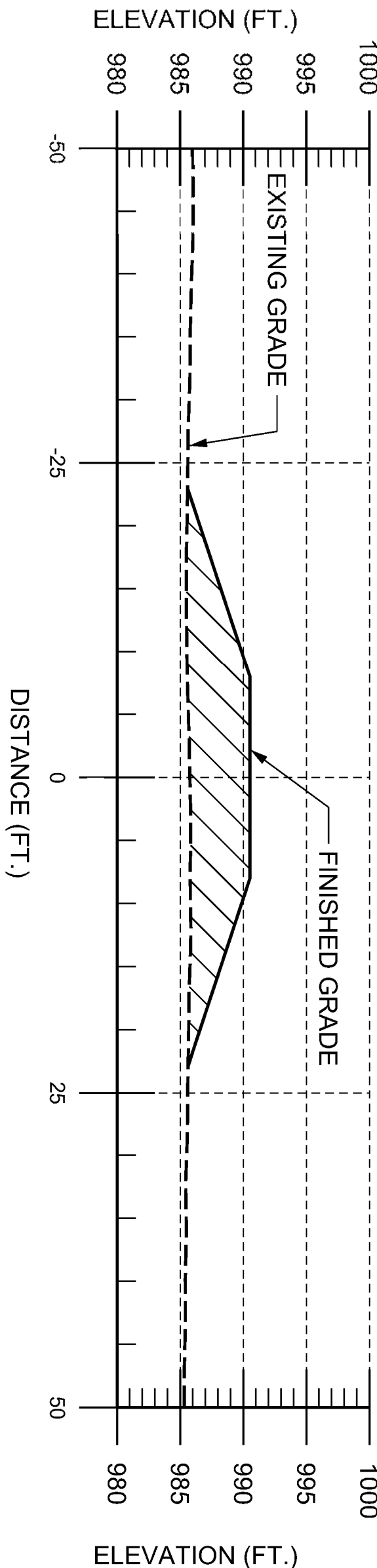
E1 CROSS SECTION - BSL 47+00



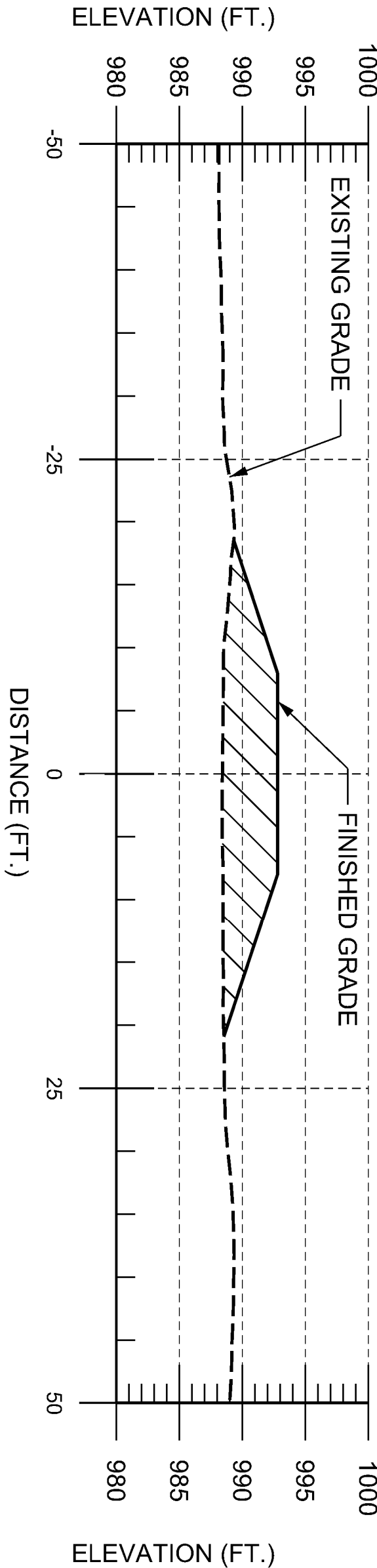
D1 CROSS SECTION - BSL 46+00



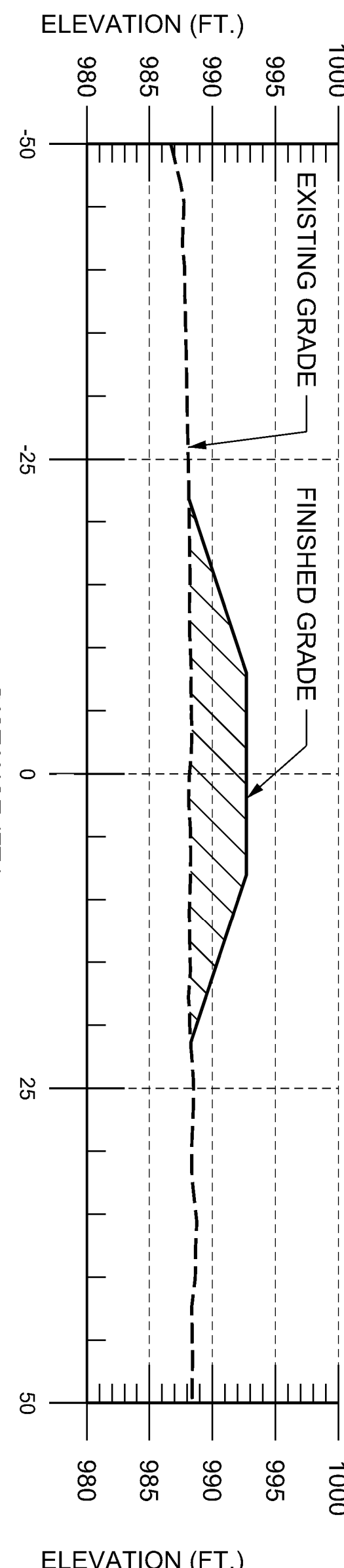
B1 CROSS SECTION - BSL 45+00



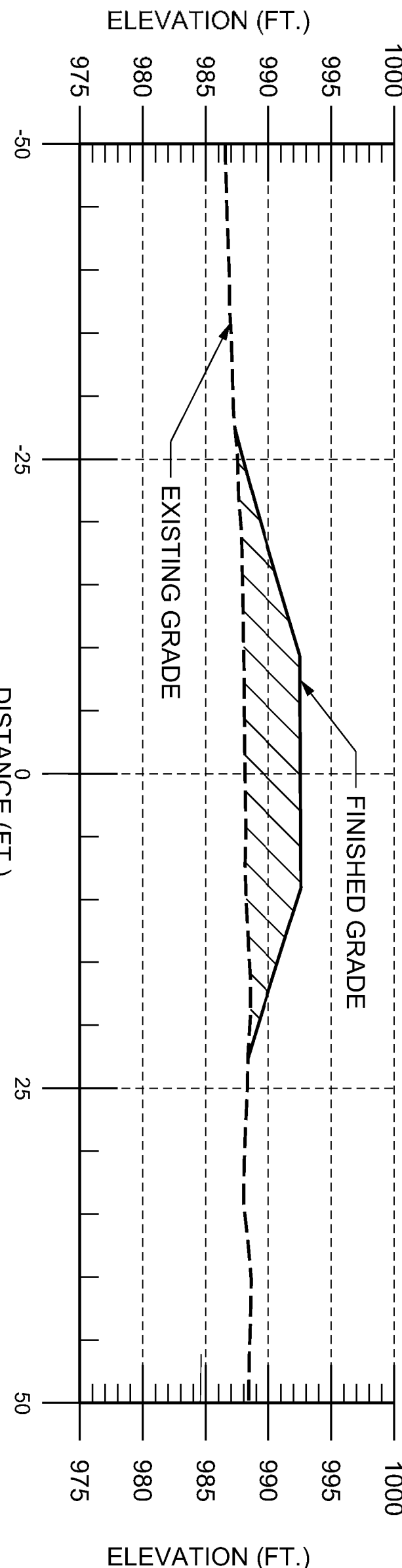
A1 CROSS SECTION - BSL 44+00



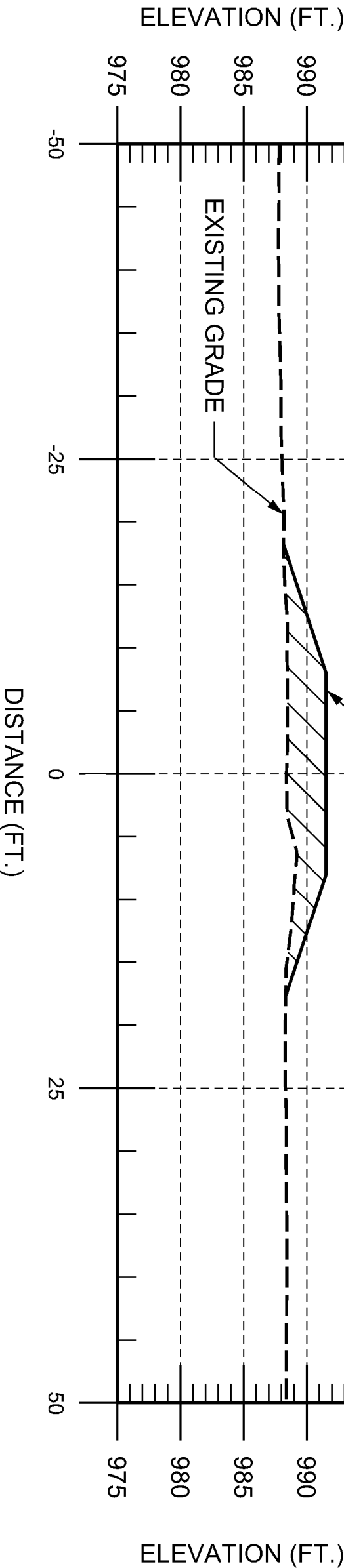
E6 CROSS SECTION - BSL 52+00



D6 CROSS SECTION - BSL 51+00



B6 CROSS SECTION - BSL 50+00



A6 CROSS SECTION - BSL 49+00

DESIGNED BY: L. FORD		ISSUE DATE: 31 MAY 2022	
DWN BY: J. BARRETT		SOLICITATION NO.:	
CKD BY: G. KATO		CONTRACT NO.:	
SUBMITTED BY: STEPHANIE MCKENNA		FILE NUMBER: D-8-4-109	
SIZE: ANSI D			

YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON
BLUE SLOUGH LEVEE CROSS SECTIONS 6

SHEET ID OPT #2 2-C-339

MARK	DESCRIPTION	DATE

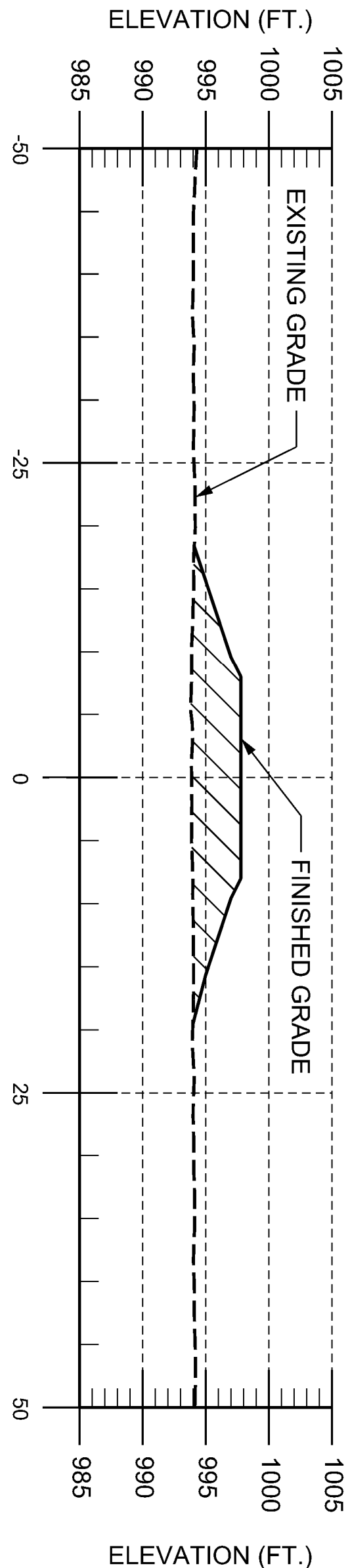
US Army Corps
of Engineers ®

LEGEND

EXISTING GRADE

FINISHED GRADE

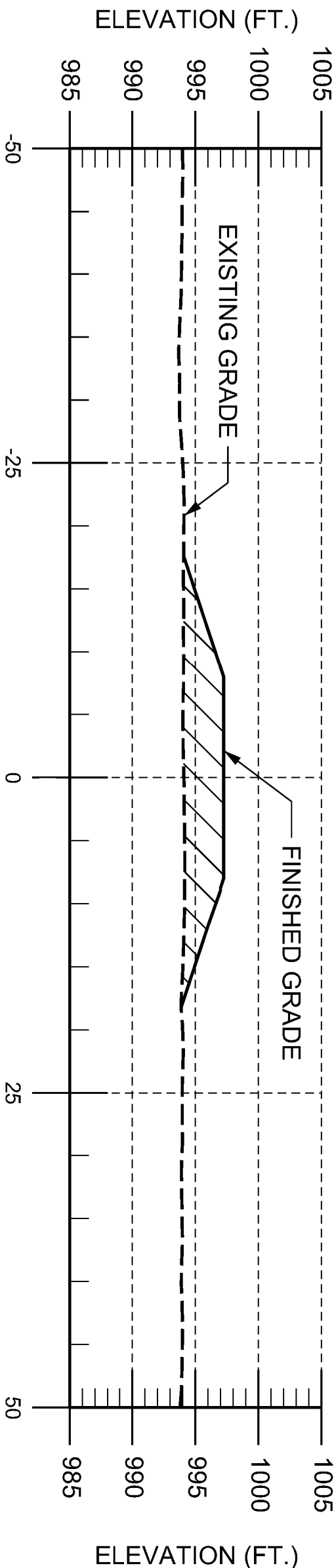
FILL OR CUT



F1 CROSS SECTION - BSL 75+00

1"=10'

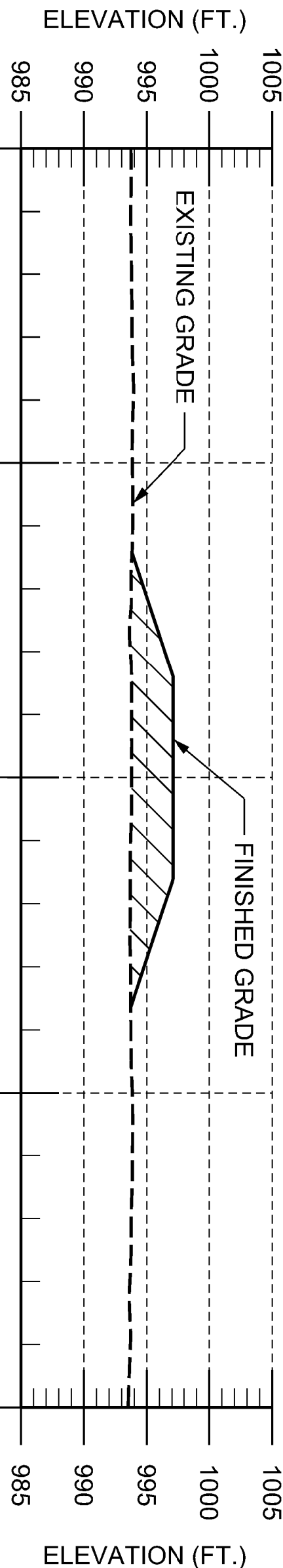
1V:1H



E1 CROSS SECTION - BSL 74+00

1"=10'

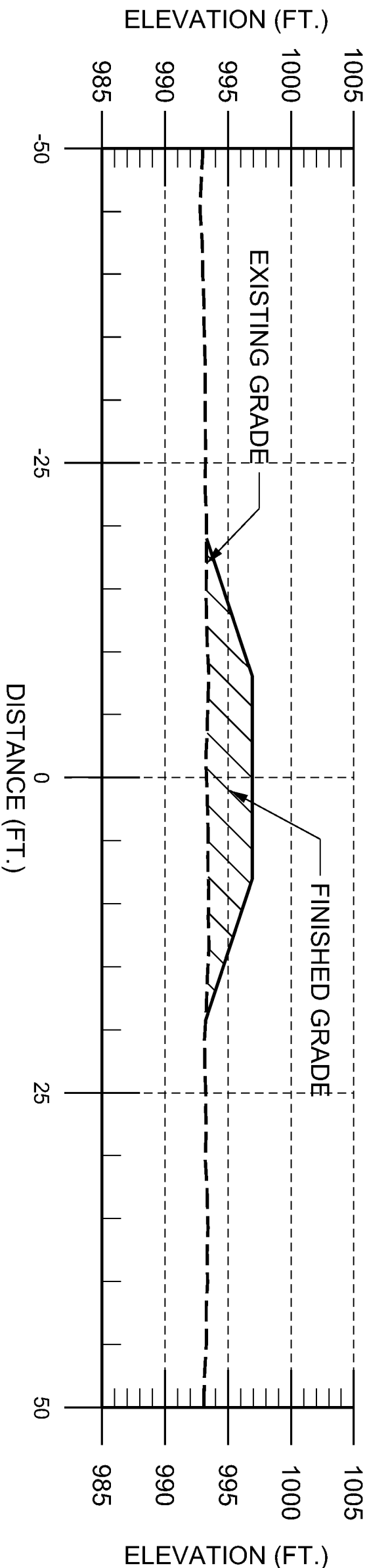
1V:1H



D1 CROSS SECTION - BSL 73+00

1"=10'

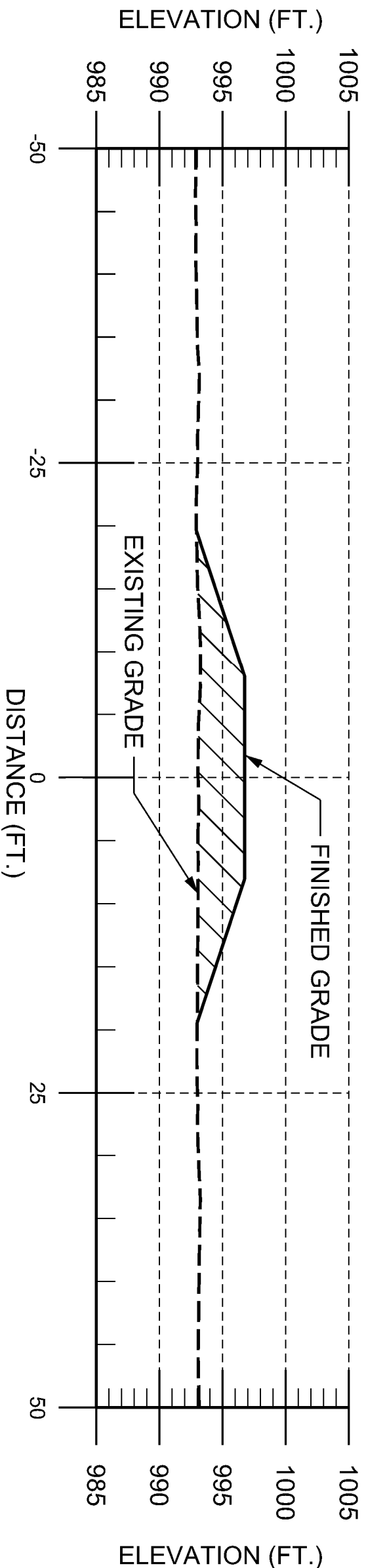
1V:1H



B1 CROSS SECTION - BSL 72+00

1"=10'

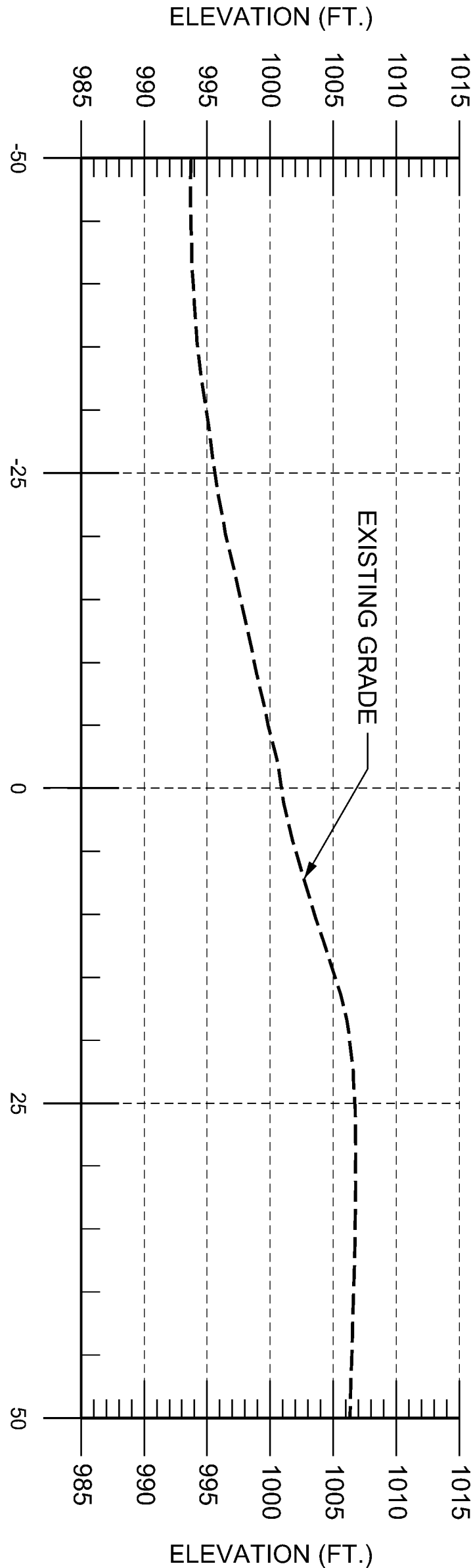
1V:1H



A1 CROSS SECTION - BSL 71+00

1"=10'

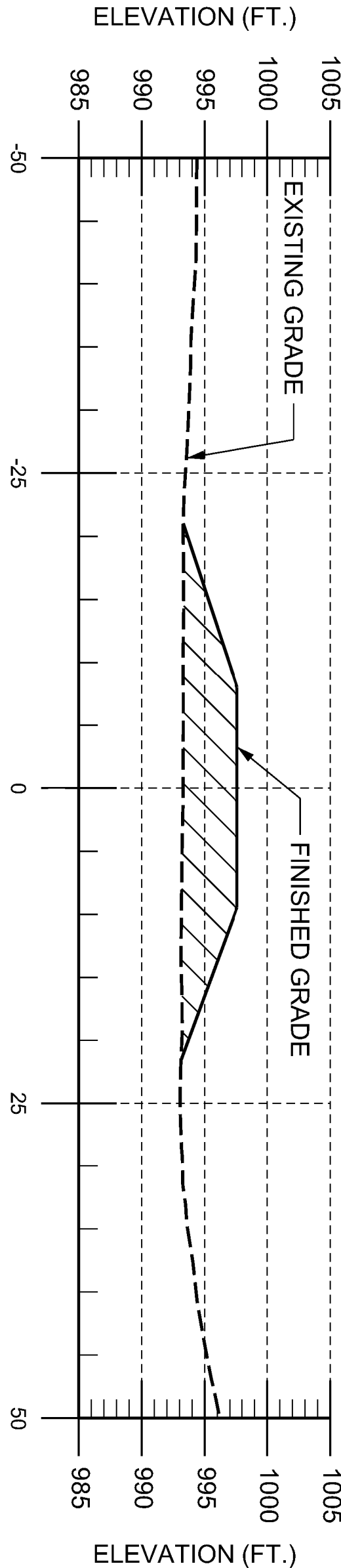
1V:1H



E5 CROSS SECTION - BSL 78+35

1"=10'

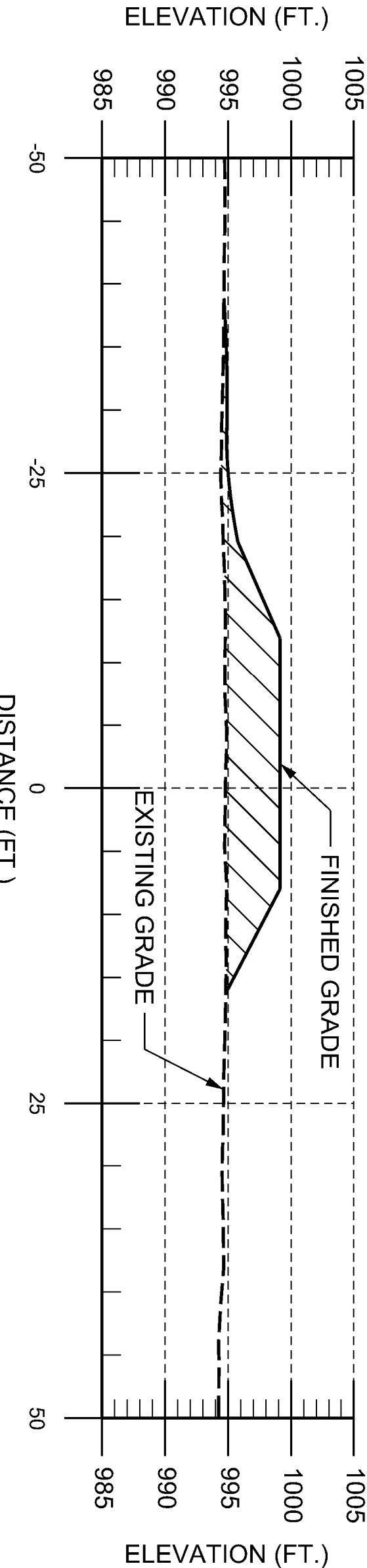
1V:1H



D5 CROSS SECTION - BSL 78+00

1"=10'

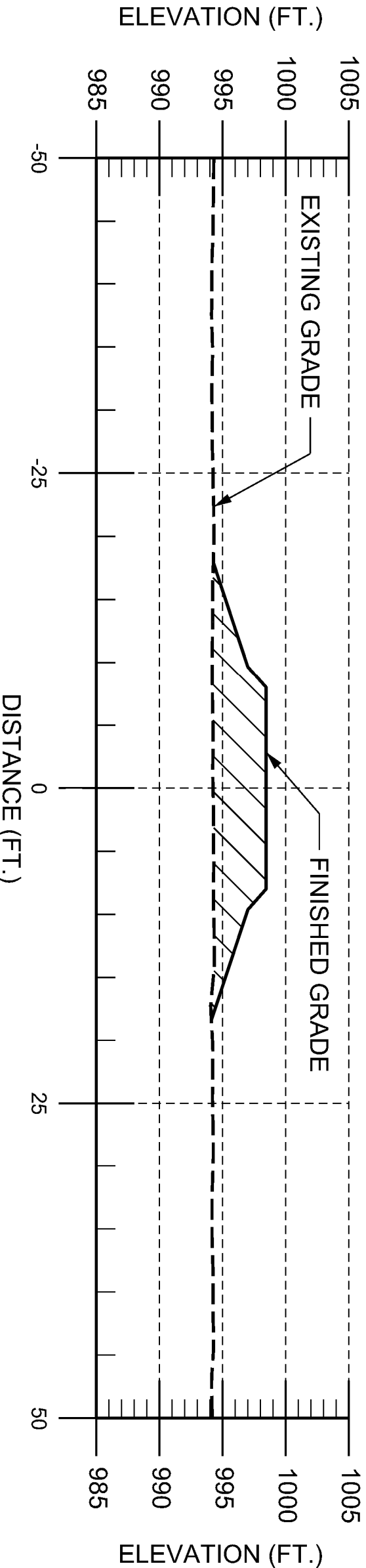
1V:1H



B5 CROSS SECTION - BSL 77+00

1"=10'

1V:1H



A5 CROSS SECTION - BSL 76+00

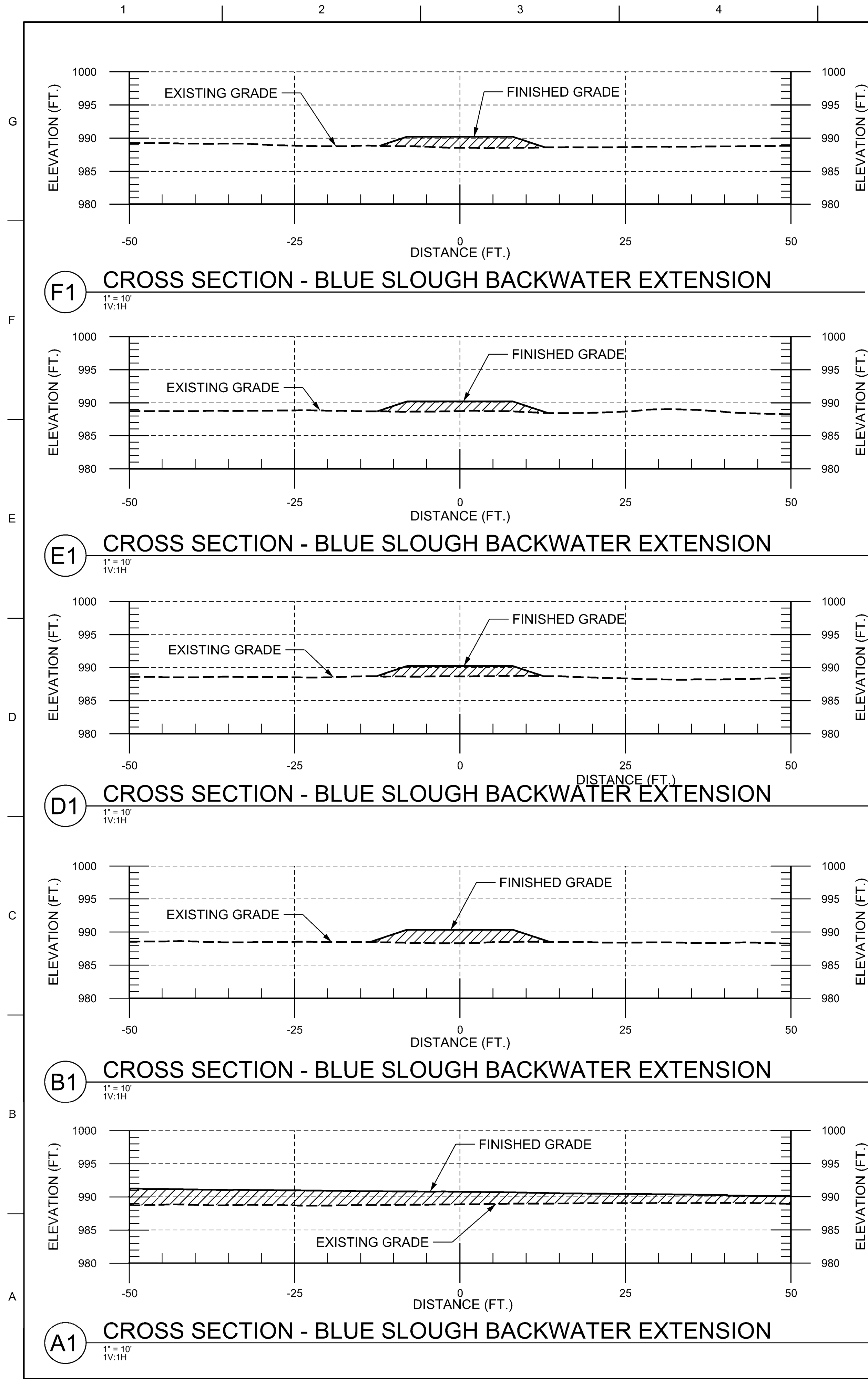
1"=10'

1V:1H

DESIGNED BY: L. FORD		ISSUE DATE: 31 MAY 2022	
DWN BY: J. BARRETT		SOLICITATION NO.:	
CKD BY: G. KATO		CONTRACT NO.:	
SUBMITTED BY: STEPHANIE McKENNA		FILE NUMBER: D-8-4-109	
SIZE: ANSI D			

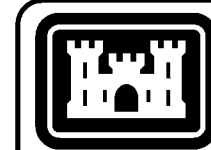
YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON	BLUE SLOUGH LEVEE CROSS SECTIONS 9
---	---------------------------------------

SHEET ID OPT #2 2-C-342



LEGEND

- EXISTING GRADE
— FINISHED GRADE
▨ FILL OR CUT



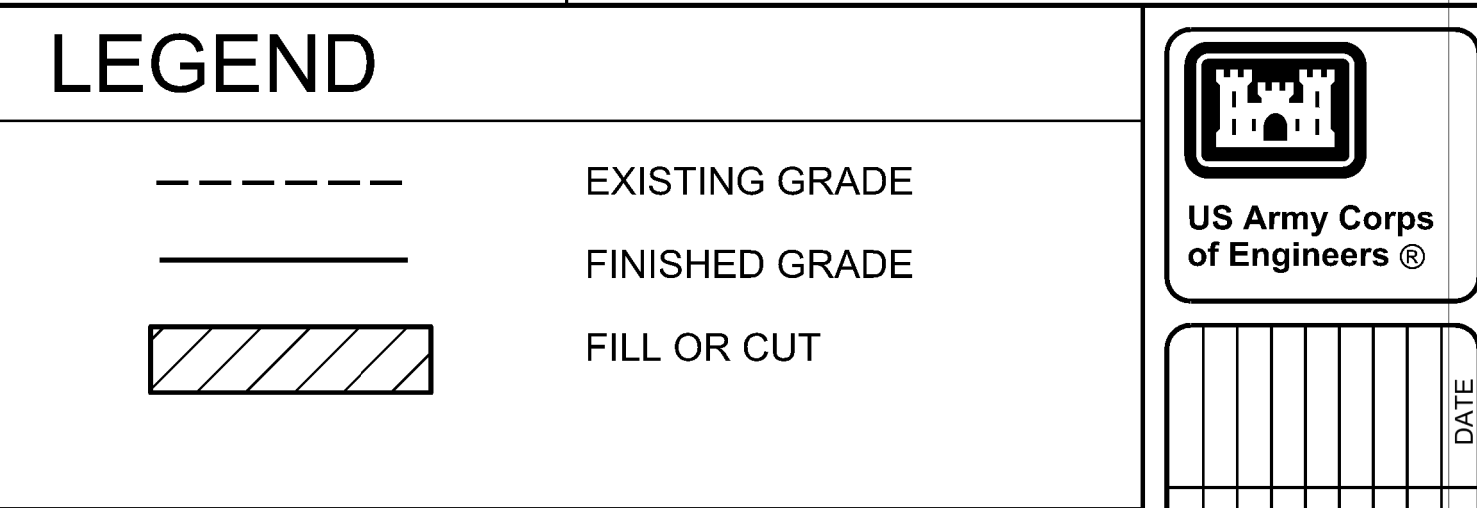
US Army Corps
of Engineers ®

DATE
DESCRIPTION
MARK

DESIGNED BY: L. FORD	ISSUE DATE: 31 MAY 2022
DWN BY: J. BARNETT	SOLICITATION NO.:
G. KATO	CONTRACT NO.:
SUBMITTED BY: STEPHANIE MCKENNA	FILE NUMBER: D-8-J-109
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS SEATTLE DISTRICT SEATTLE, WASHINGTON	YAKIMA 1135 SECTION 1135 ECOSYSTEM RESTORATION YAKIMA, WASHINGTON
BLUE SLOUGH BACKWATER EXTENSION CROSS SECTIONS 1	

SHEET ID OPT #2 2-C-343



SHEET ID
OPT #2
2-C-344

SR 24 JOB NO. 7230 SHEET 82

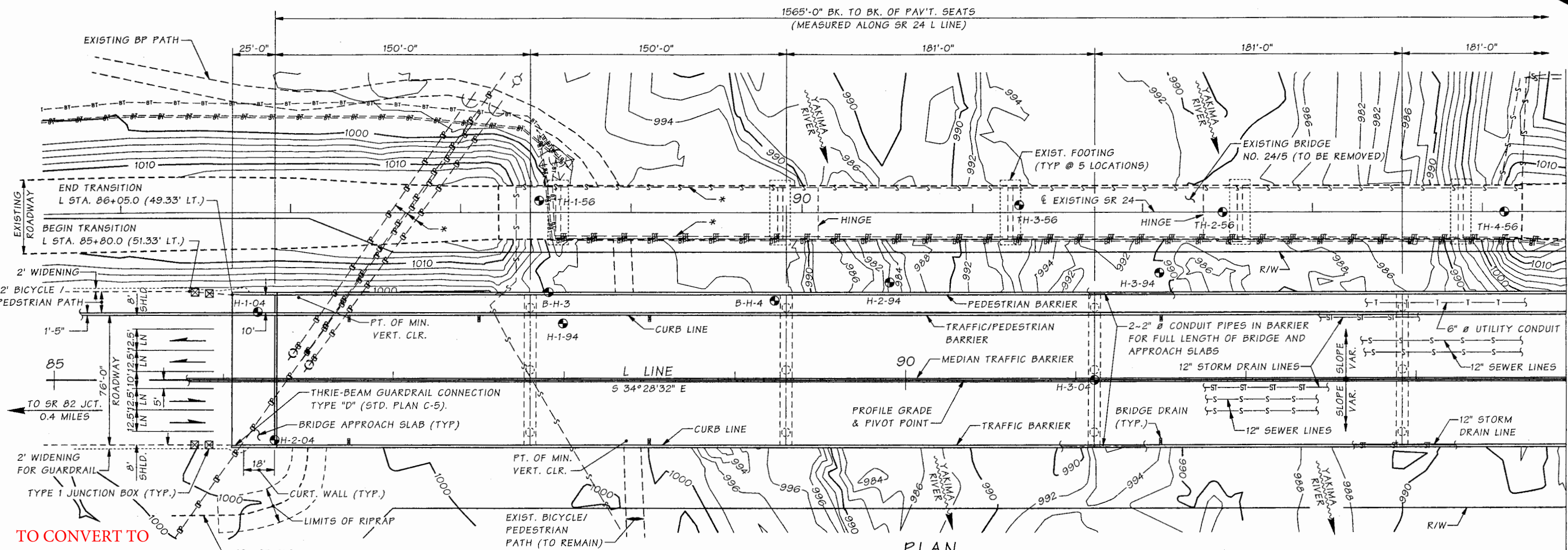
BRIDGE WITH APPROACH FILLS
W83G P.C. GIRDERS
"A" DIMENSION = 11 1/2" (PRELIMINARY - NOT FOR DESIGN)
DECK PROTECTIVE SYSTEM 1 (EPOXY COATED REBARS)
CAST-IN-PLACE CONCRETE STRENGTH SHALL BE 4000 PSI
PERMIT TARGET DATE

PT. OF MIN. VERT. CLR.
L STA. 86+45.0 (46.0' LT.)
L STA. 88+35.0 (36.0' RT.)
L STA. 101+98.0 (46.0' LT.)

CURVE DATA					
P.I. STA.	Δ	RADIUS	TANGENT	LENGTH	BACK TANGENT BEARING
110+21.44	53°54'54" LT.	2400.00'	1220.62'	2258.39'	S 34°28'32" E

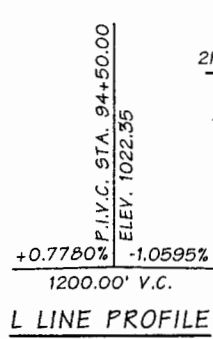
SEC. 28, T.13N., R.19E., W.M.
YAKIMA COUNTY

SR 24



TO CONVERT TO
NAVD 88 FROM NGVD 29
DATUM ADD 3.4 FEET TO ALL
ELEV.

DATUM
NGVD 1929



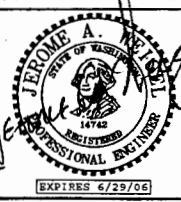
ELEVATION

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF ROADWAY SLAB ON L LINE AND ARE EQUAL TO PROFILE GRADE. SEE STD. PLAN H-9 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.

P.C. GIRDERS (W83G)
CONT. FOR L.L., LOADING: HL-93

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\layout 1.WND			
Supervisor	Kirker, KN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By	Schultz, E	10	WASH.		
Checked By	Woo, M				
Detailed By	Hanson, C.E.				
Bridge Projects Engr.	VanLund, J.	JOB NUMBER			
Prelim. Plan By	Diedrich, A.	04Y014			
Architect/Specialist	Young/khaleghi	DATE	REVISION	BY	APP'D

BRIDGE AND STRUCTURES OFFICE
2/18/05



Washington State Department of Transportation

SR 24
I-82 TO KEYS ROAD

LAYOUT 1

BRIDGE SHEET NO. B2
SHEET 345 OF 544 SHEETS

REF-001-1

C. S. 3934 ~ SOUTH CENTRAL REGION ~ SR 24 ~ MP 0.19 TO MP 1.29 ~ YAKIMA RIVER BR. NO. 24/5 REPL.

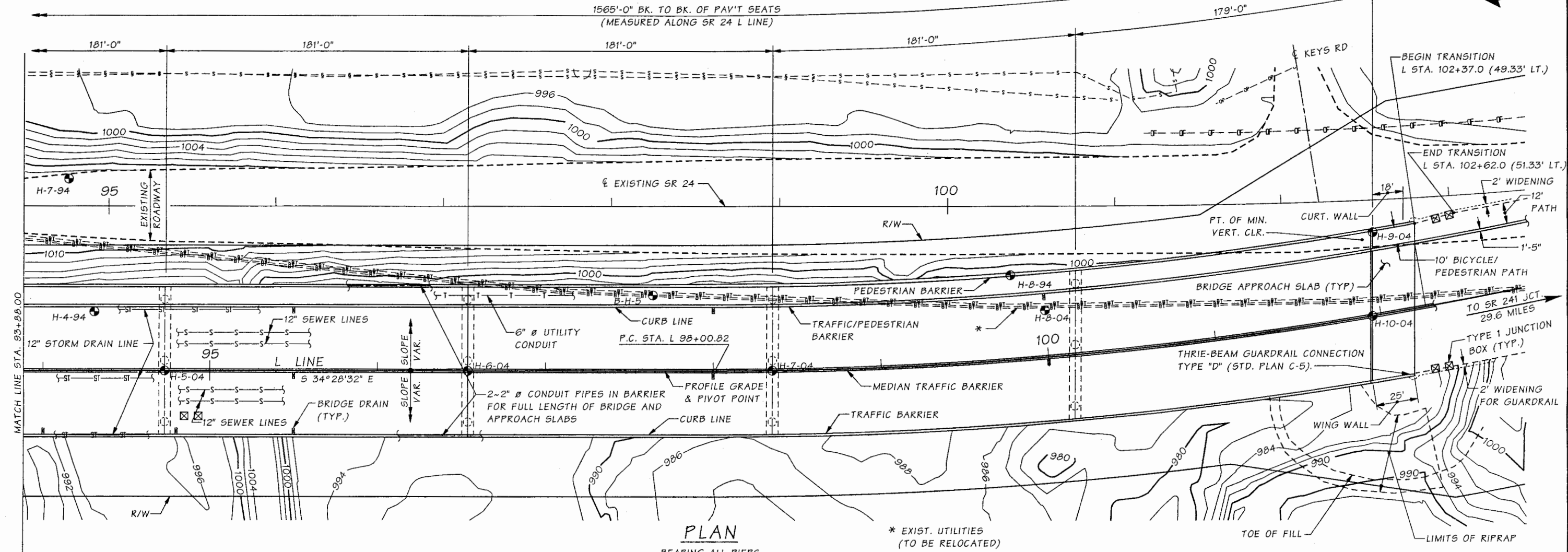
PT. OF MIN. VERT. CLR.
L STA. 86+45.0 (46.0' LT.)
L STA. 88+35.0 (36.0' RT.)
L STA. 101+98.0 (46.0' LT.)

SR 24 JOB NO. 7230 SHEET 83

CURVE DATA					
P.I. STA.	Δ	RADIUS	TANGENT	LENGTH	BACK TANGENT BEARING
110+21.44	53°54'54" LT.	2400.00'	1220.62'	2258.39'	S 34°28'32" E

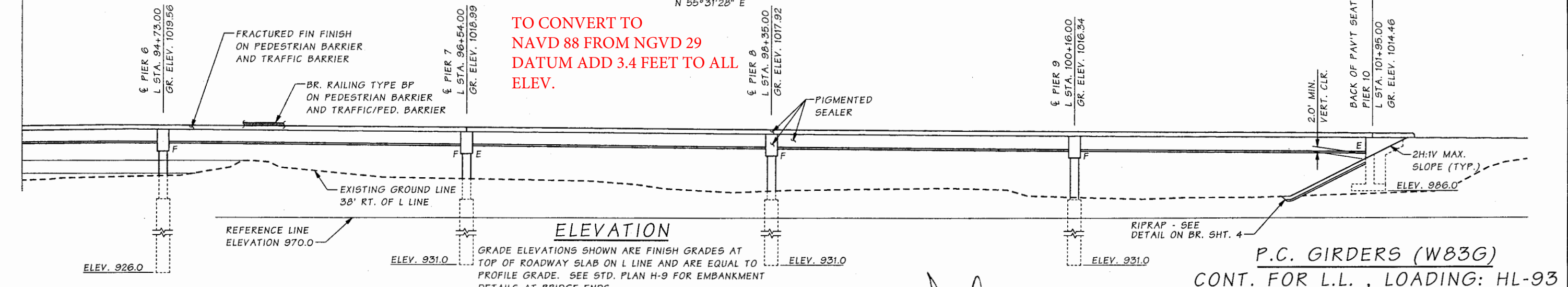
SEC. 28, T.13N., R.19E., W.M.
YAKIMA COUNTY

SR 24



PLAN
BEARING ALL PIERS
N 55°31'28" E

* EXIST. UTILITIES
(TO BE RELOCATED)



ELEVATION

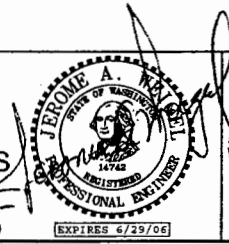
GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF ROADWAY SLAB ON L LINE AND ARE EQUAL TO PROFILE GRADE. SEE STD. PLAN H-9 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.

P.C. GIRDERS (W83G)
CONT. FOR L.L., LOADING: HL-93

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\layout 2.WND
Supervisor	Kirker, KN	
Designed By	Schultz, E	05/04
Checked By	Woo, M	10/04
Detailed By	Hanson, C.E.	05/04
Bridge Projects Engr.	VanLund, J.	05/04
Prelim. Plan By	Diedrich, A.	05/04
Architect/Specialist	Young/Khaleghi	05/04
DATE	REVISION	BY APP'D

Fri Feb 18 07:14:03 2005

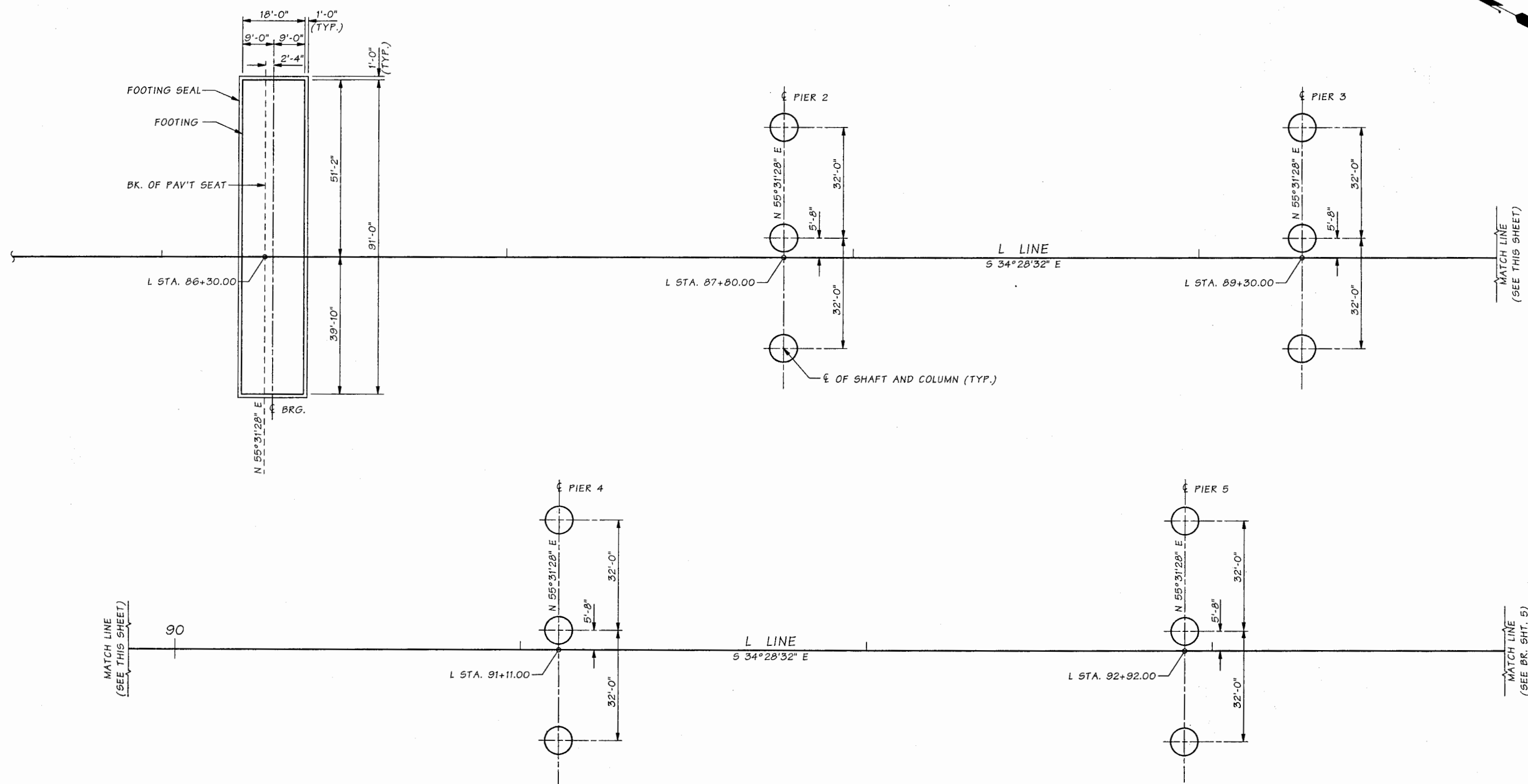
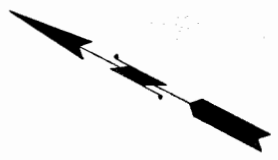
BRIDGE AND STRUCTURES OFFICE
8/18/05



Washington State
Department of Transportation

SR 24 I-82 TO KEYS ROAD	BRIDGE SHEET NO. B3
LAYOUT 2	SHEET 346 OF 544 SHEETS

C. S. 3934 ~ SOUTH CENTRAL REGION ~ SR 24 ~ MP 0.19 TO MP 1.29 ~ YAKIMA RIVER BR. NO. 24/5 REPL.

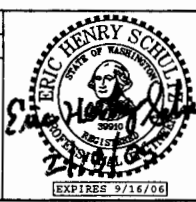


FOOTING LAYOUT
PIERS 1 TO 5

REF-001-3

SR 24 JOB NO. 7230 SHEET 87

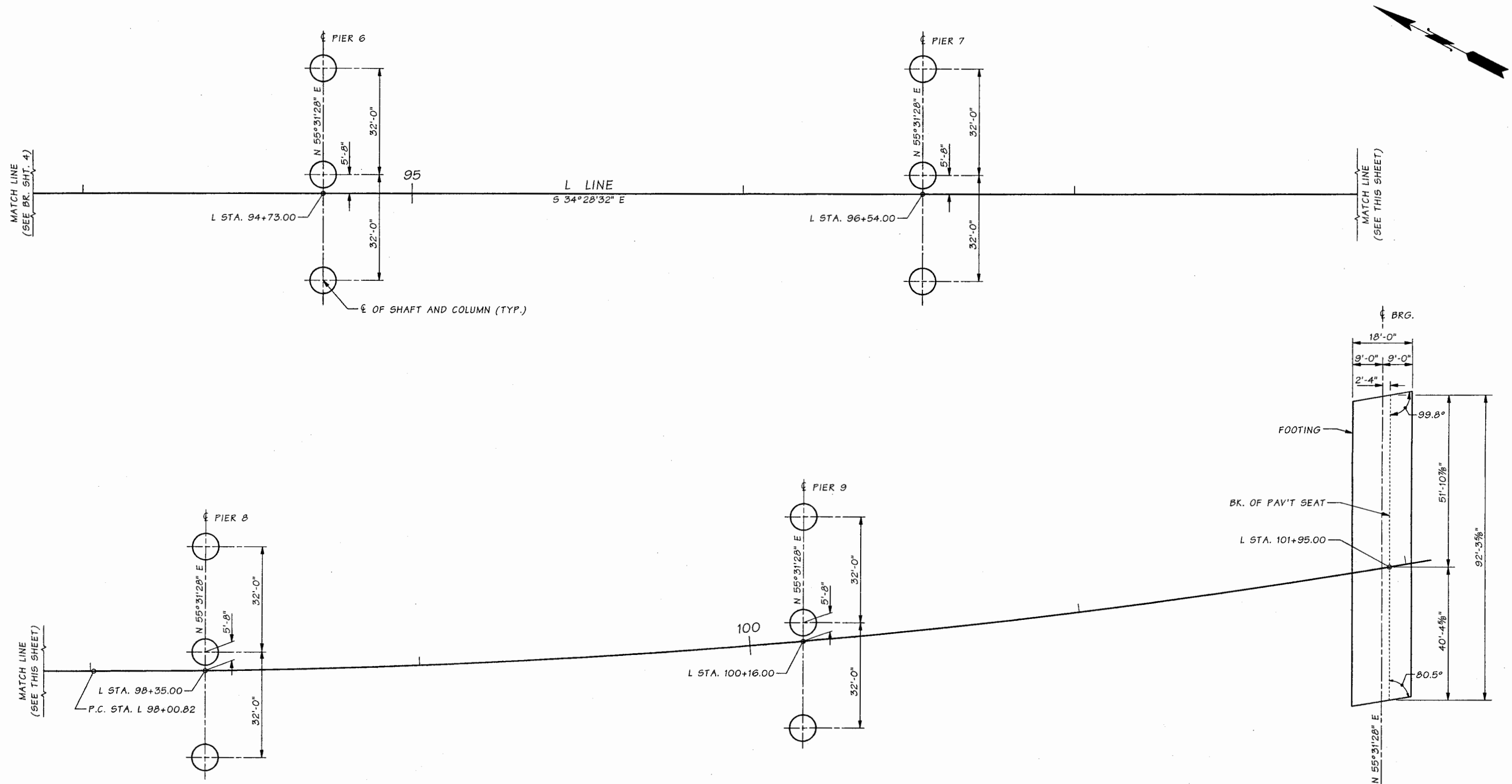
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Supervisor	Kirker, KN										
Designed By	Schultz, E	05/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	05/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						



BRIDGE
AND
STRUCTURES
OFFICE



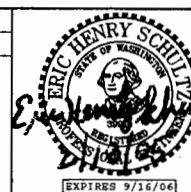
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FOOTING LAYOUT 1		SHEET 350 OF 544 SHEETS



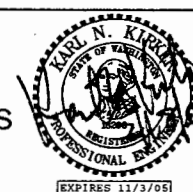
FOOTING LAYOUT
PIERS 6 TO 10

REF-001-4

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge>window files\footing layout 2.WND									
Supervisor	Kirker, KN										
Designed By	Schultz, E	05/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	05/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist											
	DATE	REVISION	BY	APP'D							



BRIDGE
AND
STRUCTURES
OFFICE

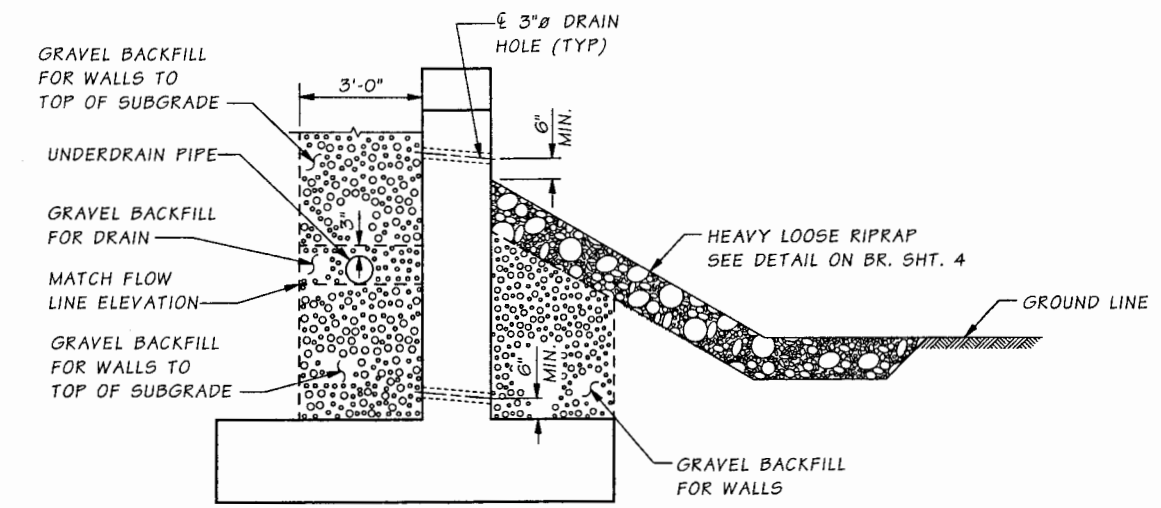
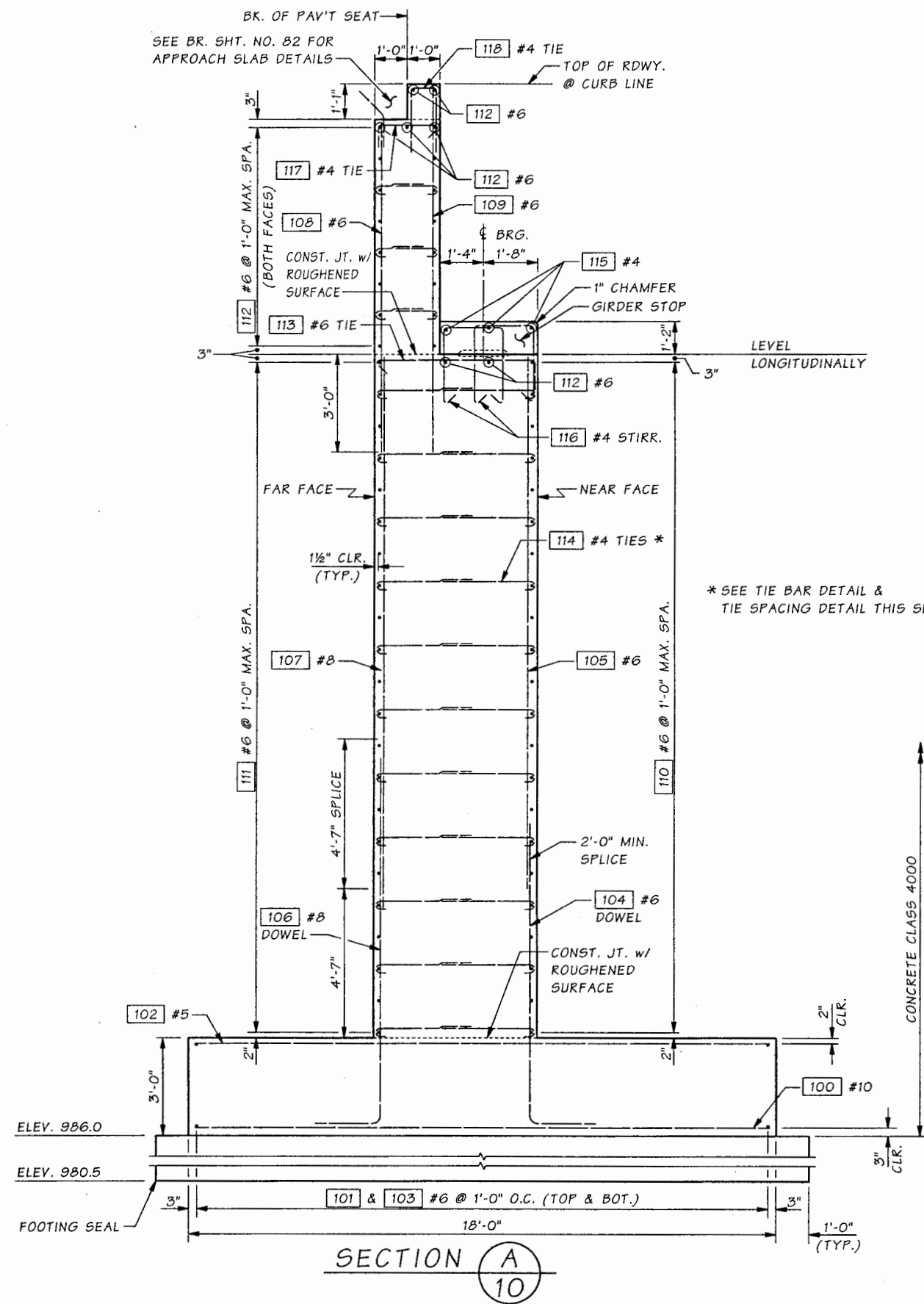


Washington State
Department of Transportation

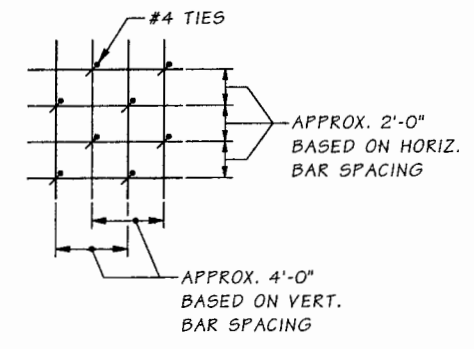
SR 24
I-82 TO KEYS ROAD

FOOTING LAYOUT 2

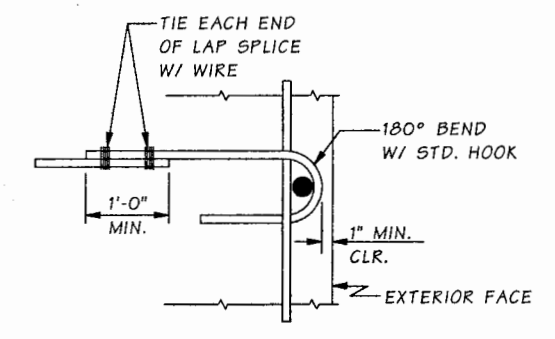
BRIDGE
SHEET
NO.
B8
SHEET
351
OF
544
SHEETS



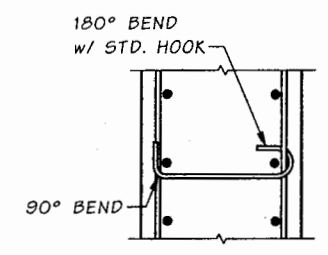
DRAINAGE DETAIL



TIE SPACING DETAIL



TIE BAR DETAIL

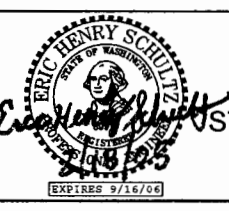


ALTERNATE TIE BAR DETAIL
CONSTANT WIDTH SECTION

REF-001-5

SR 24 JOB NO. 7230 SHEET 811

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge>window files\pier 1 details.wnd			
Supervisor	Kirker, KN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By	Schultz, E 05/04	10	WASH.		TOTAL SHEETS
Checked By	Woo, M 10/04	JOB NUMBER 04Y014			
Detailed By	Hanson, C.E. 05/04				
Bridge Projects Engr.					
Prelim. Plan By					
Architect/Specialist	DATE	REVISION	BY	APP'D	



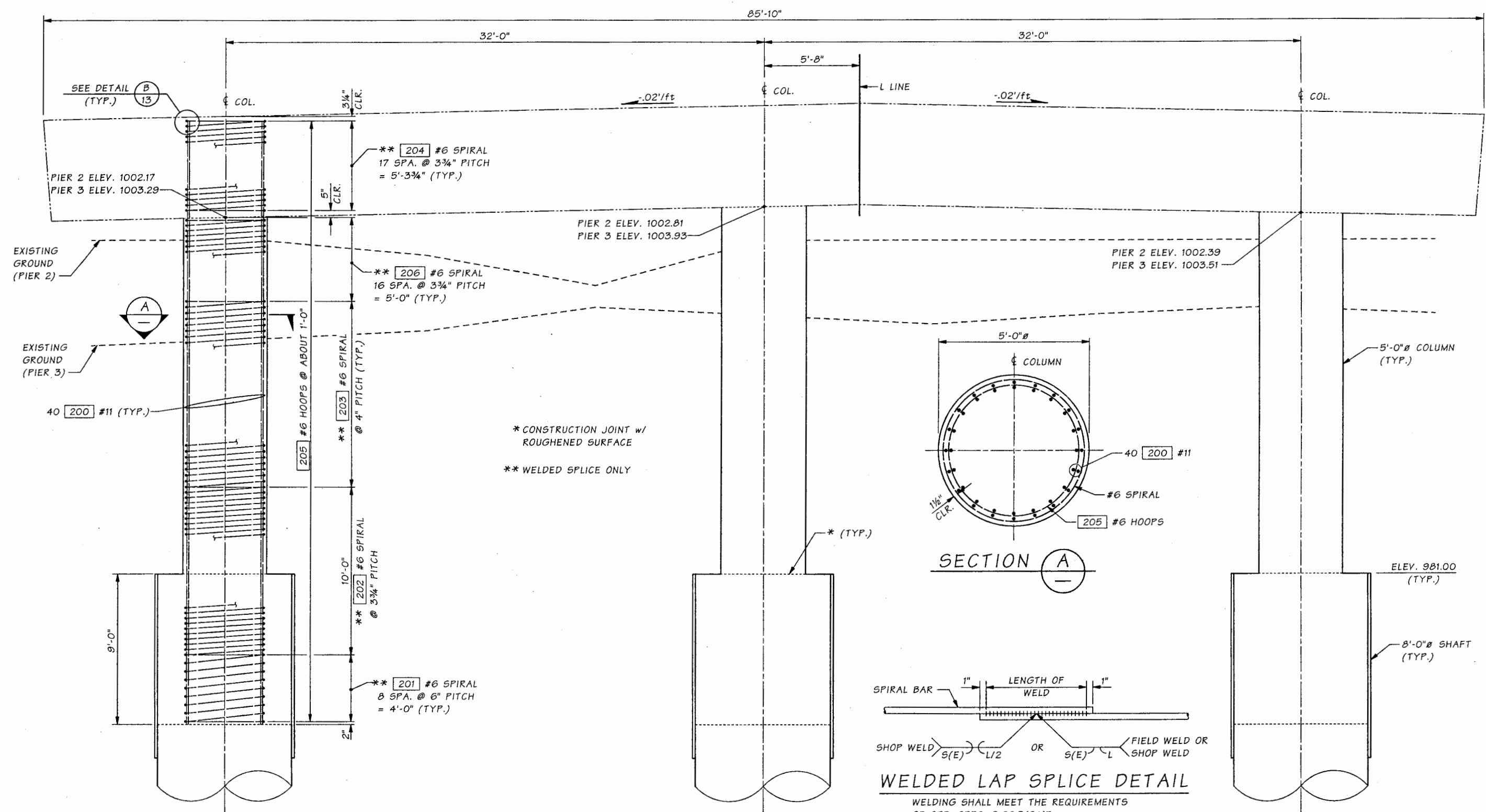
BRIDGE AND STRUCTURES OFFICE



Washington State Department of Transportation

SR 24 I-82 TO KEYS ROAD		BRIDGE SHEET NO.
PIER 1 DETAILS		B11
		SHEET 354 OF 544 SHEETS

SR 24 JOB NO. 7230 SHEET 814



PIER 2 & 3 - ELEVATION
REINFORCING TYP. EACH COLUMN

COLUMN & SHAFT SPIRAL OPTIONS

DEFORMED BAR	PLAIN STEEL BAR	COLD DRAWN WIRE	DEFORMED WIRE	WELD DIMENSIONS		
AASHTO M 31 GR. 60	AASHTO M 31 GR. 60	AASHTO M 32	AASHTO M 225	S	E	LENGTH (L)
#6	3/4"Ø	W44	D44	3/8"	3/16"	6"

REF-001 -6

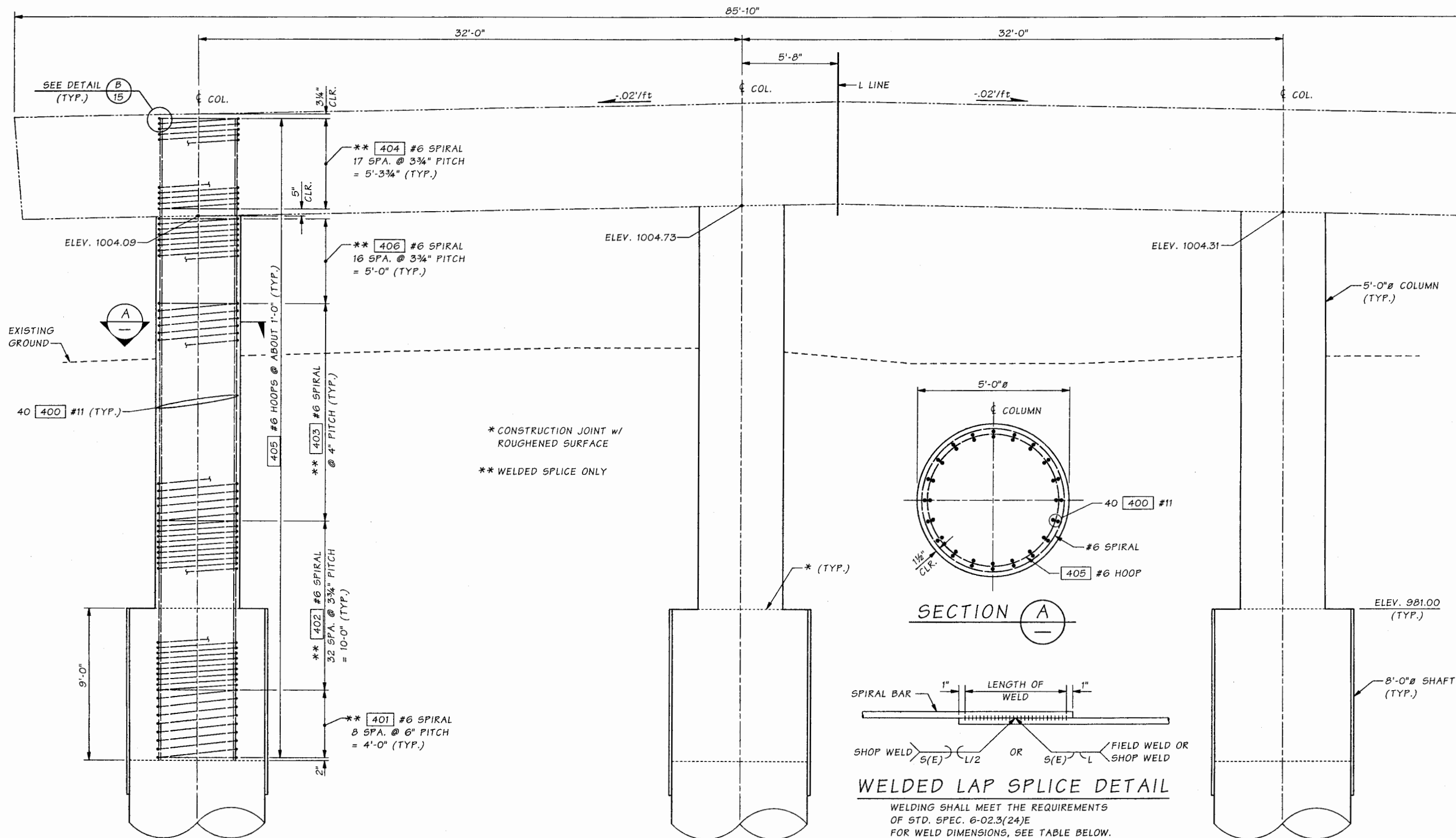
Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\p 2-3 col--shft.WND									
Supervisor	Kirker, KN										
Designed By	Schultz, E	08/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	08/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist											
DATE		REVISION		BY	APPD						



BRIDGE AND STRUCTURES OFFICE

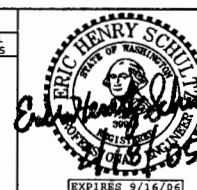


SR 24 I-82 TO KEYS ROAD		BRIDGE SHEET NO. B14
PIER 2 & 3 COLUMN ELEVATION & DETAILS		SHEET 357 OF 544 SHEETS

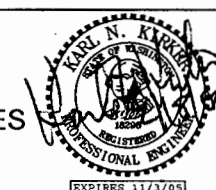


SR 24 JOB NO. 7230 SHEET 816

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\p 4 col--shft.wnd				
Supervisor	Kirker, KN					
Designed By	Schultz, E	08/04				
Checked By	Woo, M	10/04				
Detailed By	Hanson, C.E.	08/04				
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist		DATE	REVISION	BY	APPD	



BRIDGE
AND
STRUCTURES
OFFICE

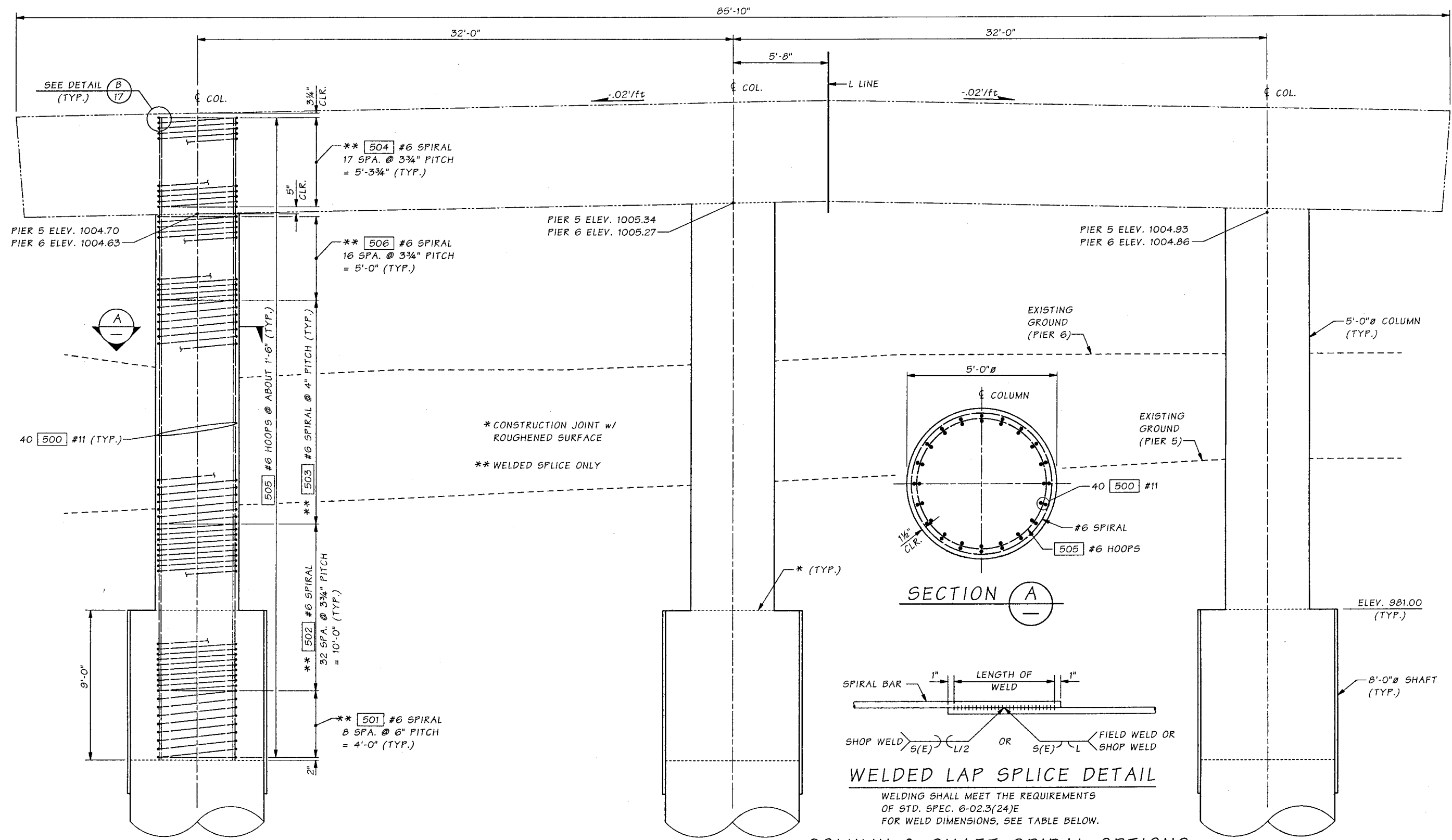


Washington State
Department of Transportation

SR 24
I-82 TO KEYS ROAD
PIER 4
COLUMN ELEVATIONS & DETAILS

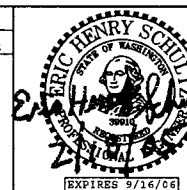
BRIDGE
SHEET
NO.
B16
SHEET
359
OF
544
SHEETS

REF-001-7

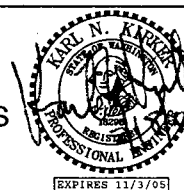


REF-001-8

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\p 5-6 col--shft.wnd									
Supervisor	Kirker, KN										
Designed By	Schultz, E	08/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	08/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist											
	DATE	REVISION	BY	APP'D							



BRIDGE
AND
STRUCTURES
OFFICE

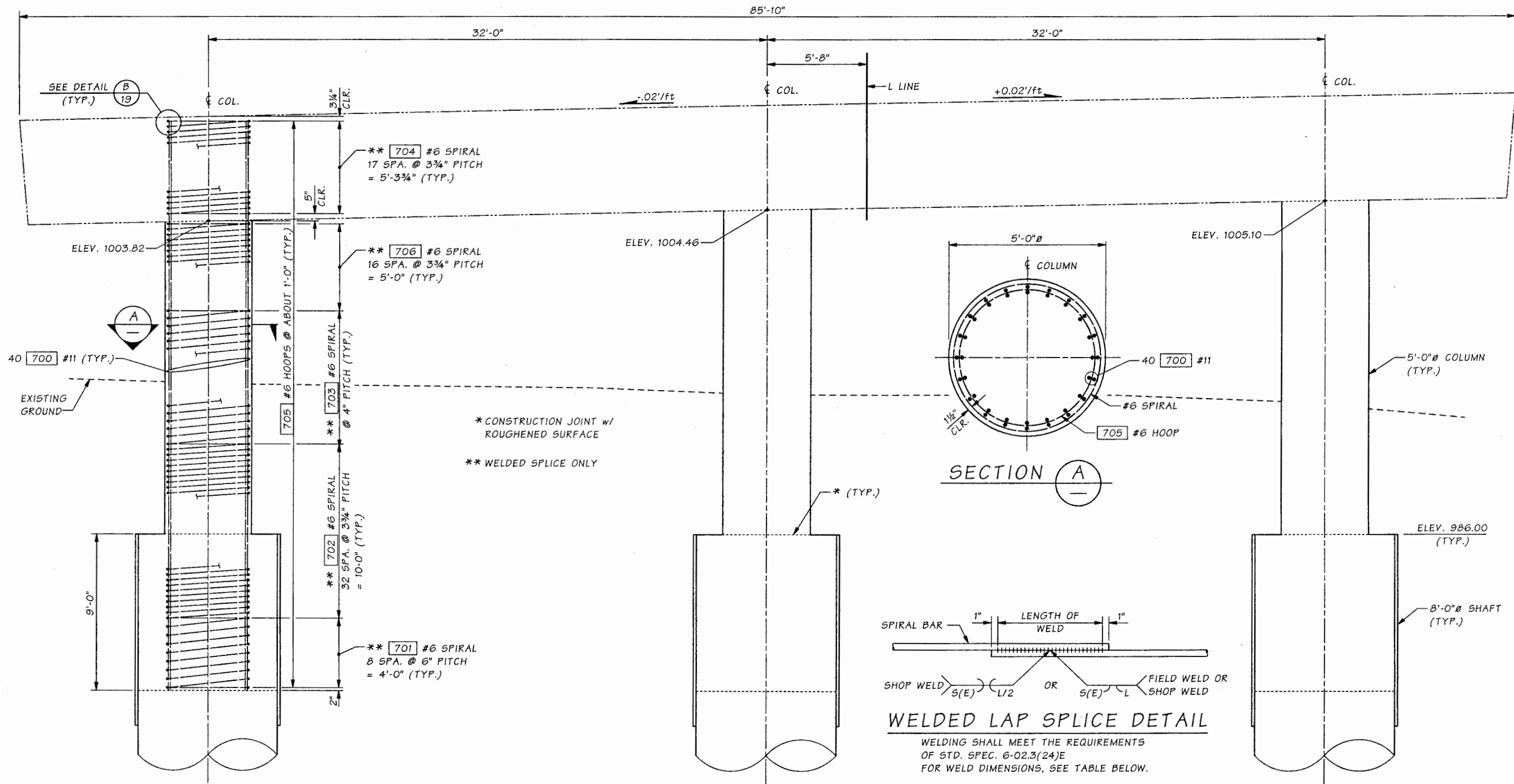


Washington State
Department of Transportation

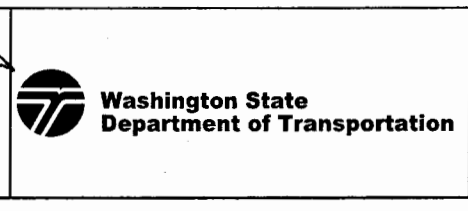
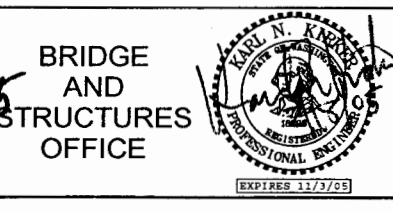
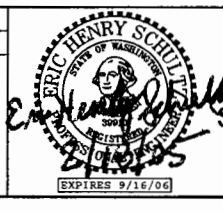
SR 24
I-82 TO KEYS ROAD

PIER 5 & 6
COLUMN ELEVATIONS & DETAILS

BRIDGE
SHEET
NO.
B18
SHEET
361
OF
544
SHEETS

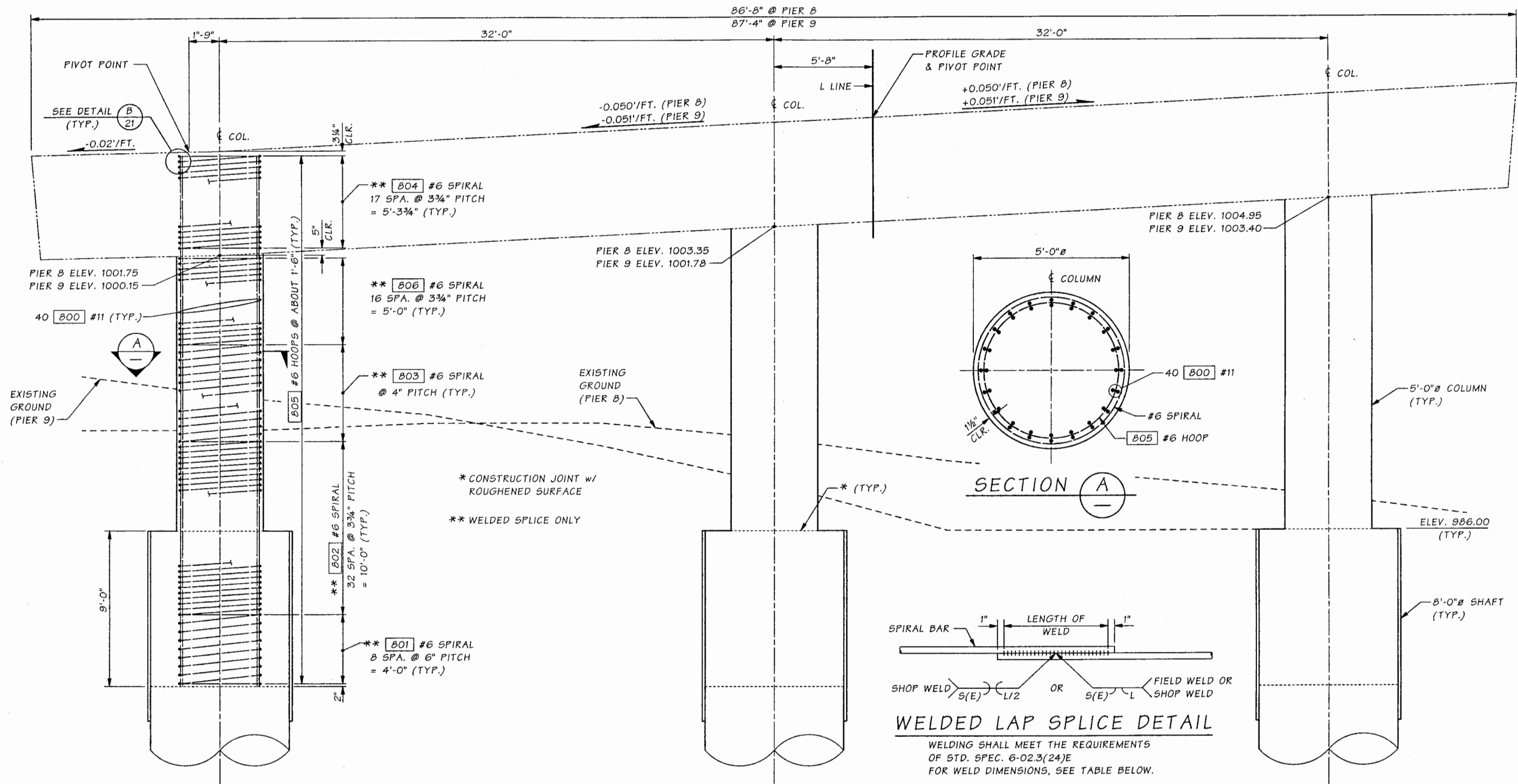


Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\p 7 col--shft.WND									
Supervisor	Kirker, KN										
Designed By	Schultz, E	08/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	08/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						



SR 24 I-82 TO KEYS ROAD		BRIDGE SHEET NO. B20
PIER 7 COLUMN ELEVATIONS & DETAILS		SHEET 363 OF 544 SHEETS

REF-001-9



Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\p 8-9 col--shft.WND									
Supervisor	Kirker, KN										
Designed By	Schultz, E	08/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	08/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist											
	DATE	REVISION	BY	APPD							



BRIDGE AND STRUCTURES OFFICE

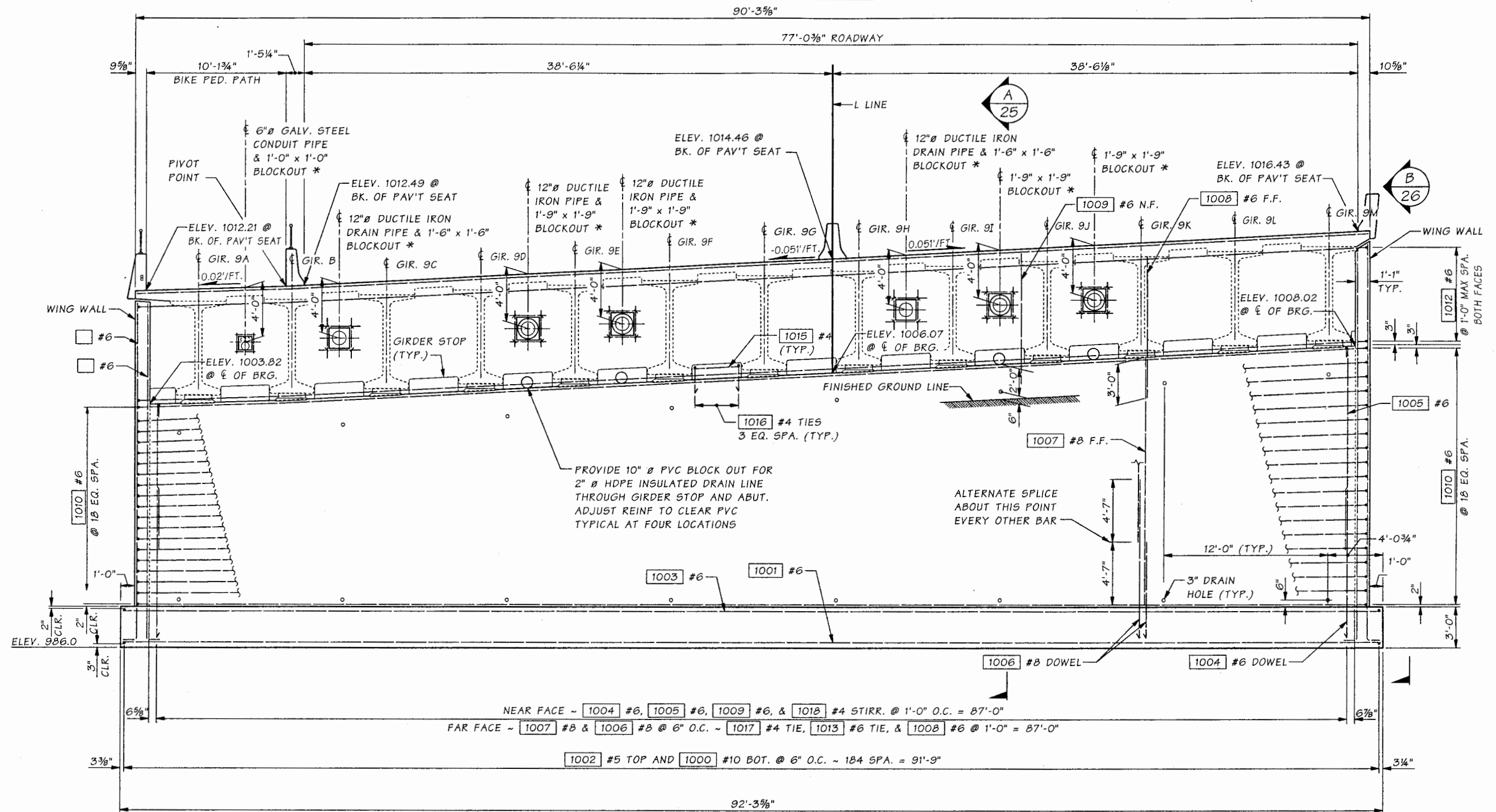


Washington State Department of Transportation

SR 24
I-82 TO KEYS ROAD
PIER 8 & 9
COLUMN ELEVATIONS & DETAILS

BRIDGE SHEET NO.
B22
365 OF 544 SHEETS

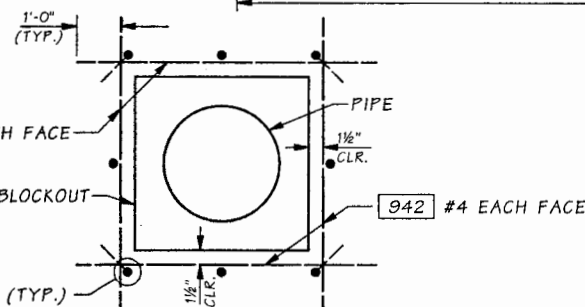
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ELEVATION

SHOWN LOOKING AHEAD ON STATION

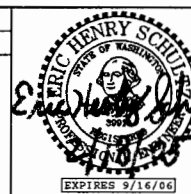
* SEE BLOCKOUT DETAIL ON THIS SHEET.



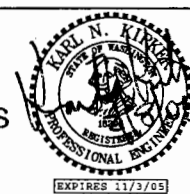
BLOCKOUT DETAIL

TOP OF GROUT PAD ELEV. @ ϕ OF BEARING													
GIRDER	10A	10B	10C	10D	10E	10F	10G	10H	10I	10J	10K	10L	10M
PAD ELEV.	1004.06	1004.20	1004.53	1004.88	1005.23	1005.58	1005.94	1006.29	1006.64	1006.99	1007.34	1007.69	1008.04

Bridge Design Engr.	Kapur, J	m:\y-team\sr24 yakima river bridge\window files\pier 10 elev.WND									
Supervisor	Kirker, KN										
Designed By	Schultz, E	09/04									
Checked By	Woo, M	10/04									
Detailed By	Hanson, C.E.	09/04									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist											
	DATE	REVISION	BY	APPD							



BRIDGE
AND
STRUCTURES
OFFICE



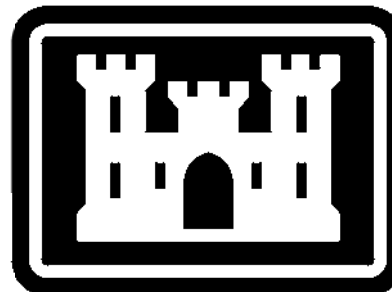
Washington State
Department of Transportation

SR 24
I-82 TO KEYS ROAD

PIER 10 ELEVATION

BRIDGE
SHEET
NO.
B24
SHEET
367
OF
544
SHEETS

REF-001-11



US Army Corps
of Engineers
Seattle District



US Army Corps
of Engineers
Seattle District

File •
D-8-4-410

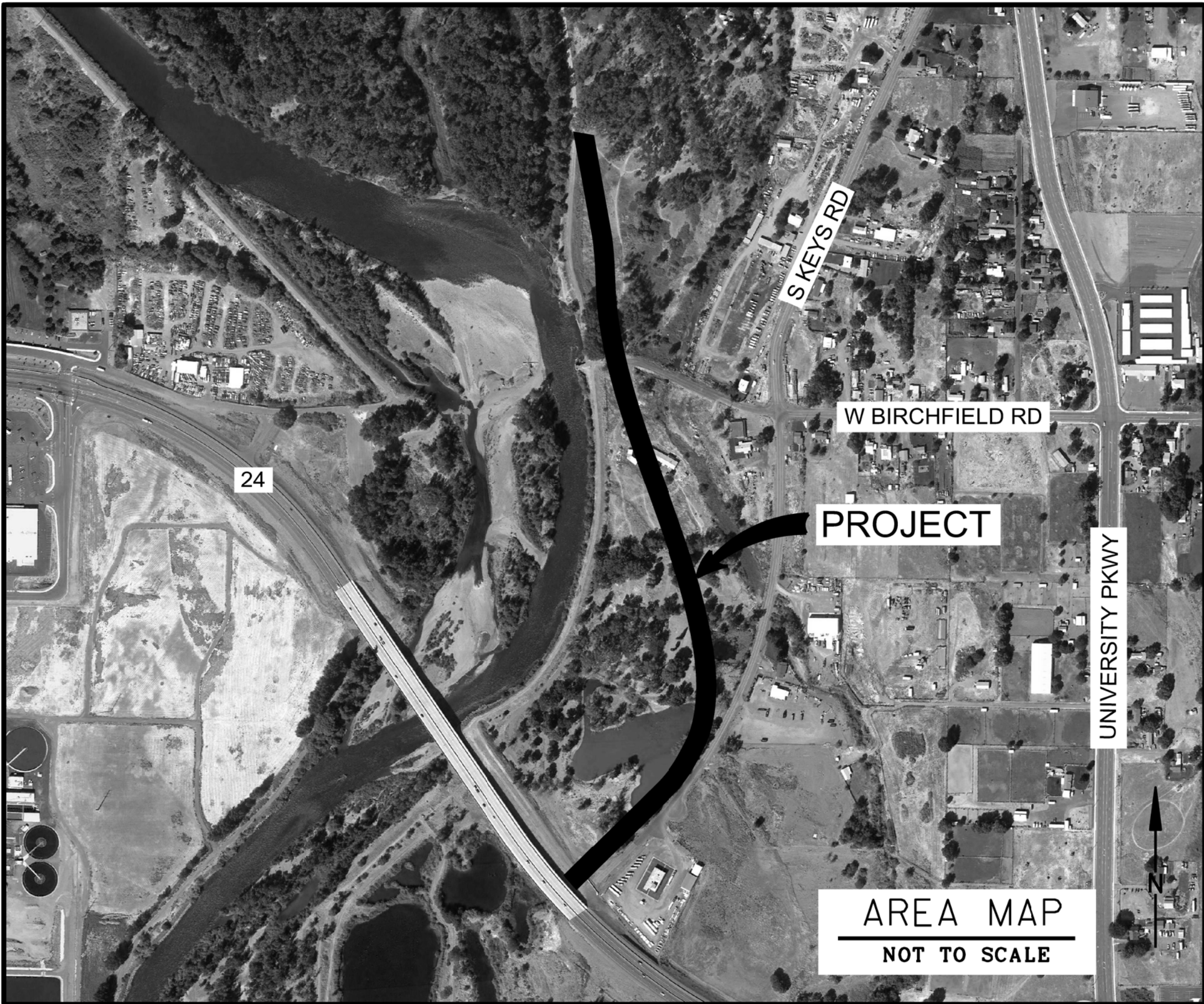
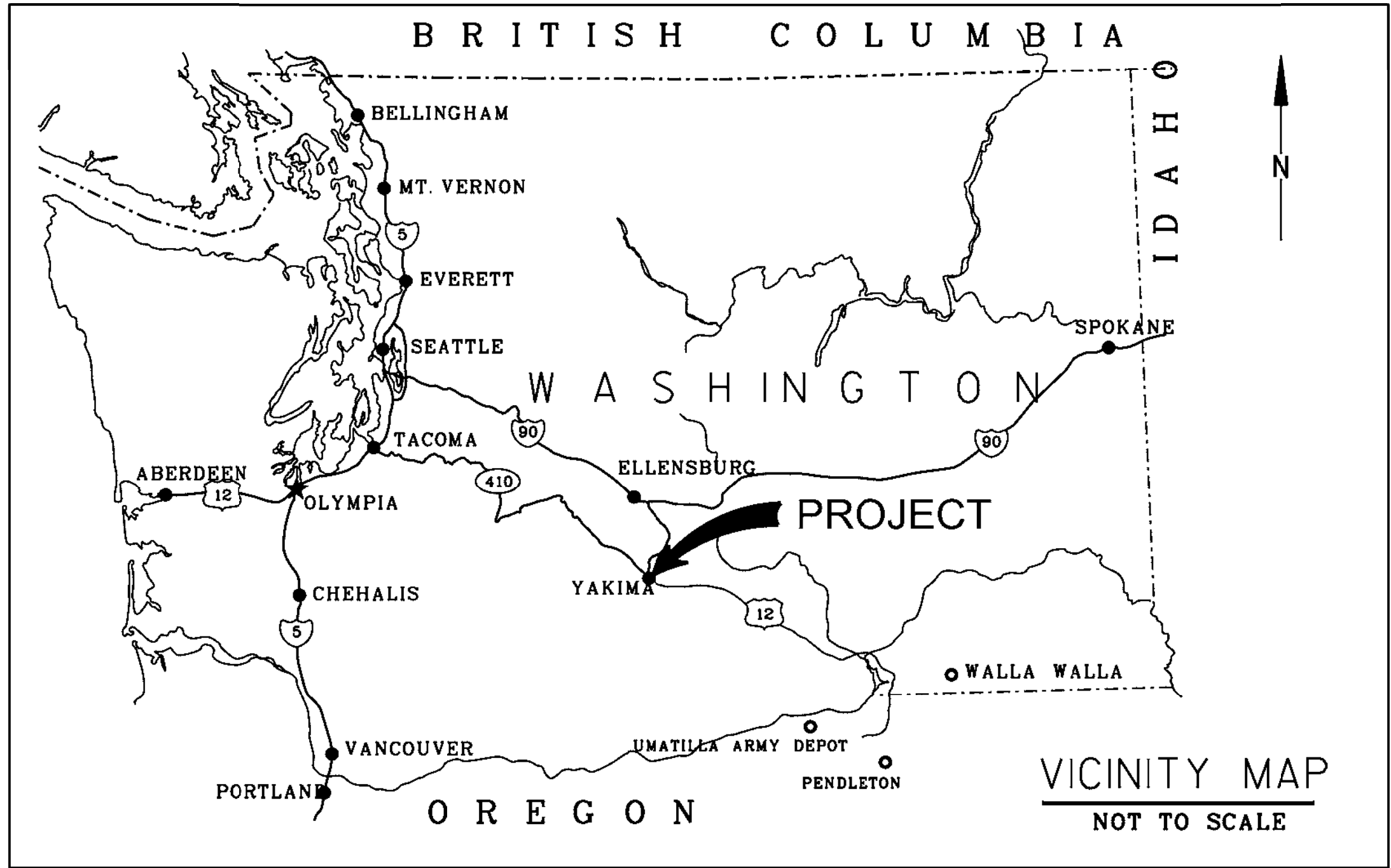
Invitation •

Date
28DEC11

YAKIMA AUTHORIZED SPORTSMAN PARK REHABILITATION YAKIMA COUNTY, WASHINGTON

DRAWING INDEX

GENERAL	PLATE NO.	TITLE
	G-001	TITLE, VICINITY MAP AND AREA MAP
	G-002	GENERAL SITE PLAN
CIVIL	C-101	SITE PLAN 1
	C-102	SITE PLAN 2
	C-103	SITE PLAN 3
	C-301	TYPICAL SECTIONS AND MATERIALS
	C-302	TIE-IN DETAIL
	C-303	CROSS DIKE AND OUTLET
	C-304	WETLAND CREATION



FY 12
PIR PROJECT #321801

SAFETY PAYS

IF SHEET MEASURES LESS THAN 22" X 34" IT IS
A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

U.S. ARMY ENGINEER DISTRICT, SEATTLE
CORPS OF ENGINEERS
SEATTLE, WASHINGTON
Prepared by
Dennis A. Fischer, P.E.
Chief, Soils Section

Submitted by
BRIAN C. NELSON
PROJECT MANAGER
Reviewed by
ANIL L. NISARGAND, P.E.
CH. SPECS & TECH REVIEW SEC.

Recommended by
TRAVIS C. SHAW
CHIEF, GEO. AND ENVIRON. BRANCH
Approved by
MARK A. OHLSTROM, P.E.
CH. ENGINEERING DIV.


YAKIMA AUTHORIZED
TITLE, VICINITY MAP,
AND AREA MAP
YAKIMA COUNTY
WASHINGTON

Plate
number:
G-001
Sheet 1 of 9

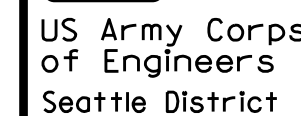


1" = 150' 0 150' 300'

LEGEND



- IF SHEET MEASURES LESS THAN 22" X 34" IT IS
A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

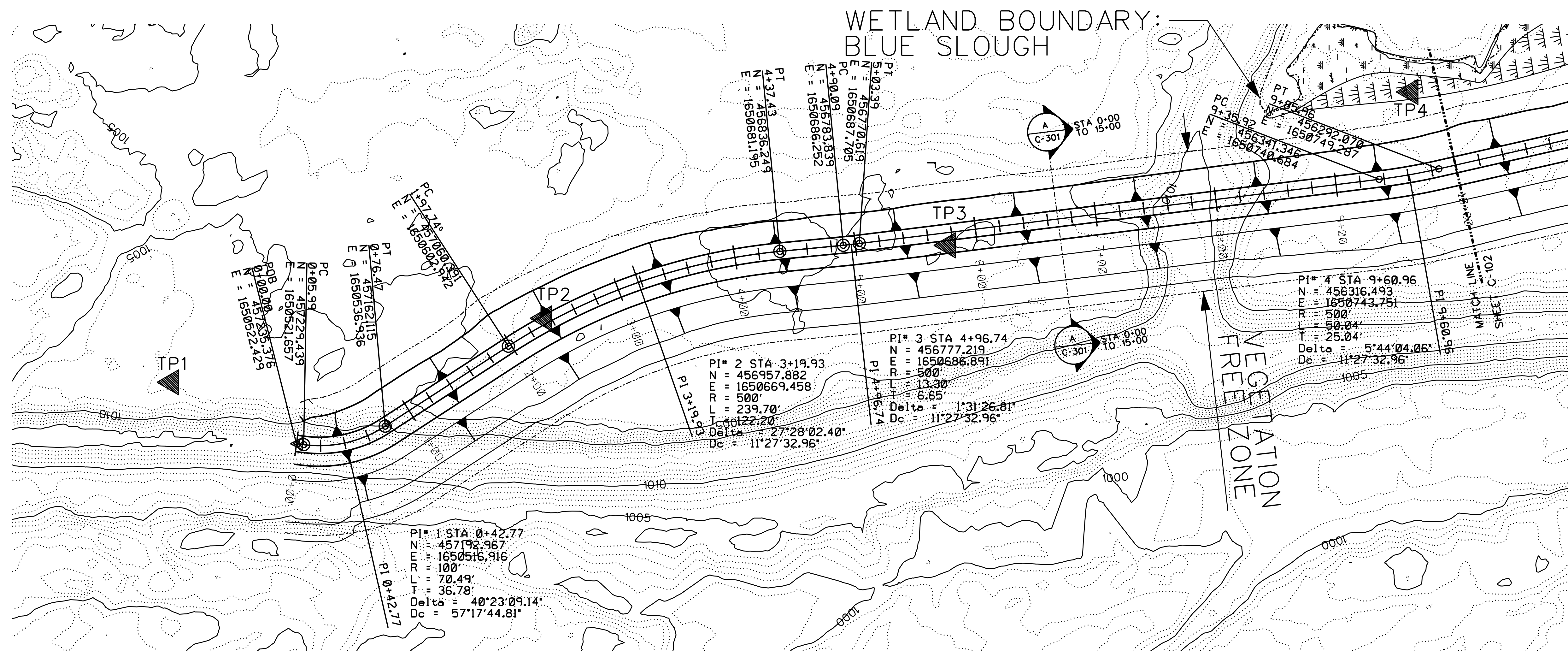
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Designed by:	GOSS	Date:	28DEC11
Drawn by:	PEELE/GOSS	File #	D-8-4-410
Checked by:	IFFT	Rev.	

U.S.ARMY ENGINEER DISTRICT SEATTLE CORPS OF ENGINEERS SEATTLE, WASHINGTON	Prepared by:	
---	--------------	--

YAKIMA AUTHORIZED
SITE PLAN 1

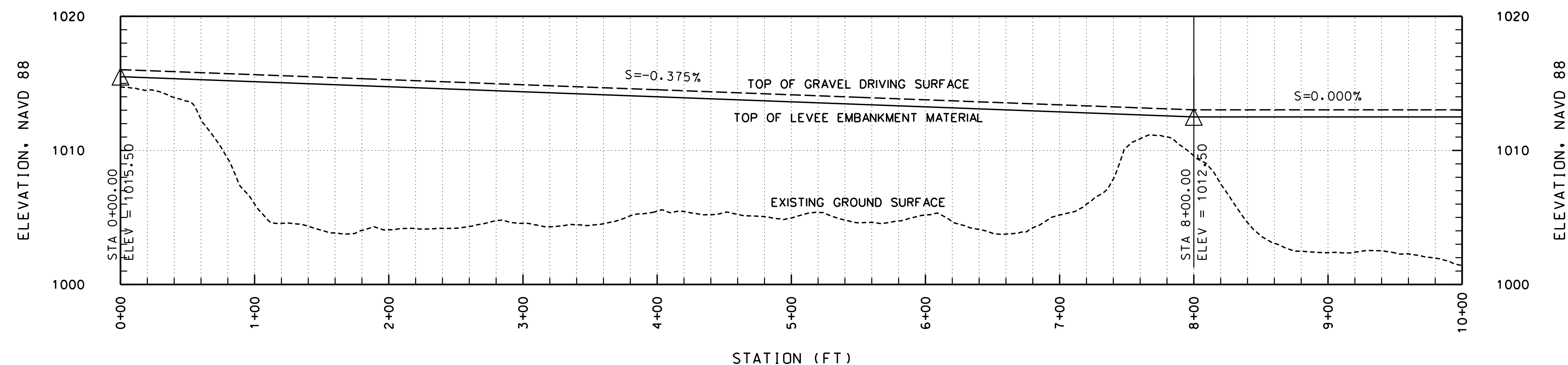
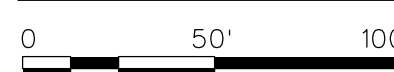
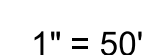
Plate
number:
C-101
Sheet 3 of 9



PLAN

LEGEND

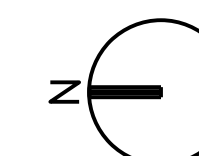
TP# TEST PIT NUMBER
& APPROXIMATE LOCATION



PROFILE

SURVEY NOTE:

SCALE: 1" = 100' C.I. = 5'
MAP COMPILED FROM AERIAL LIDAR FLOWN 2003.
HORIZONTAL CONTROL BASED ON WASHINGTON COORDINATE SYSTEM, NAD 83/91, SOUTH ZONE.
VERTICAL CONTROL BASED ON NAVD '88.



IF SHEET MEASURES LESS THAN 22" X 34" IT IS
A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

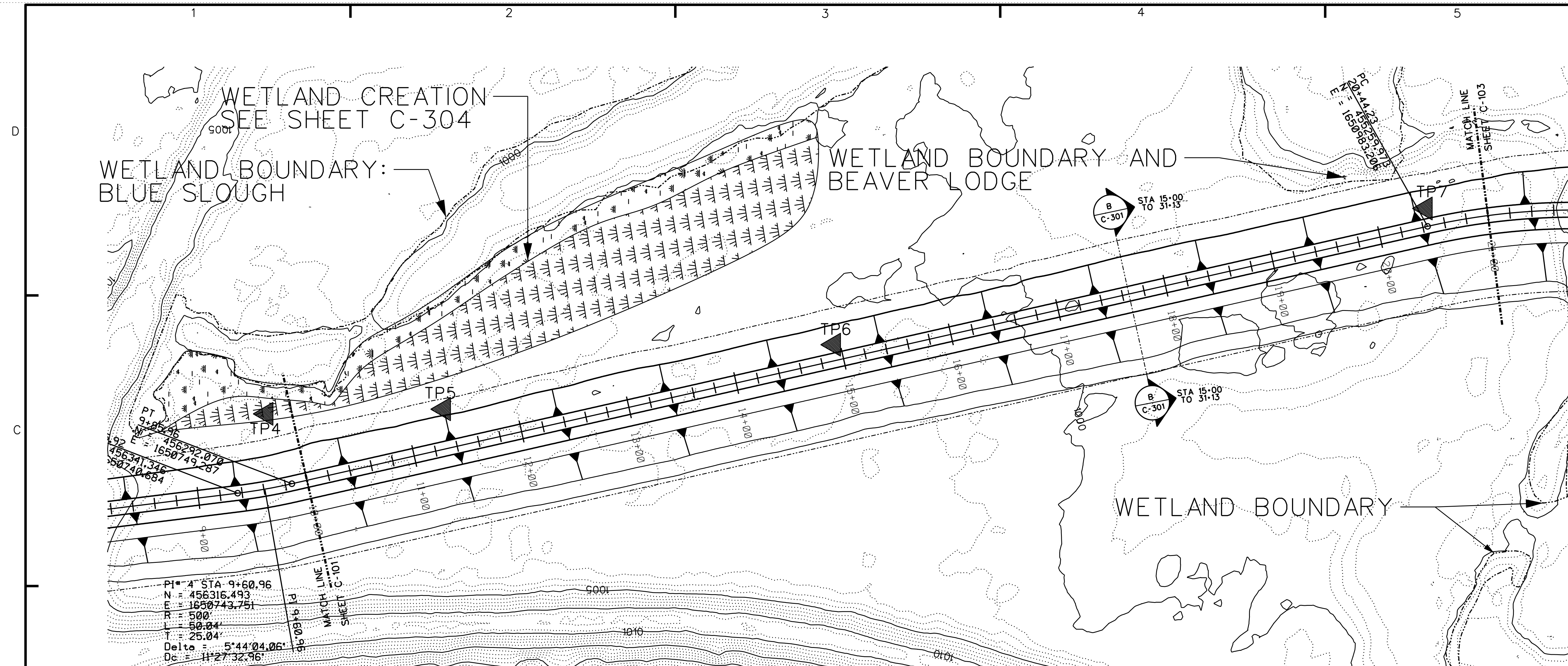
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U.S. ARMY ENGINEER DISTRICT/SEATTLE CORPS OF ENGINEERS SEATTLE, WASHINGTON	Designed by GOSS	Date 28DEC11
	Drawn by PEEL/GOSS	Title D-8-4-10
	Checked by IFFT	Rev.
Prepared by		

YAKIMA AUTHORIZED

SITE PLAN 2

Plate
number:
C-102
Sheet 4 of 9

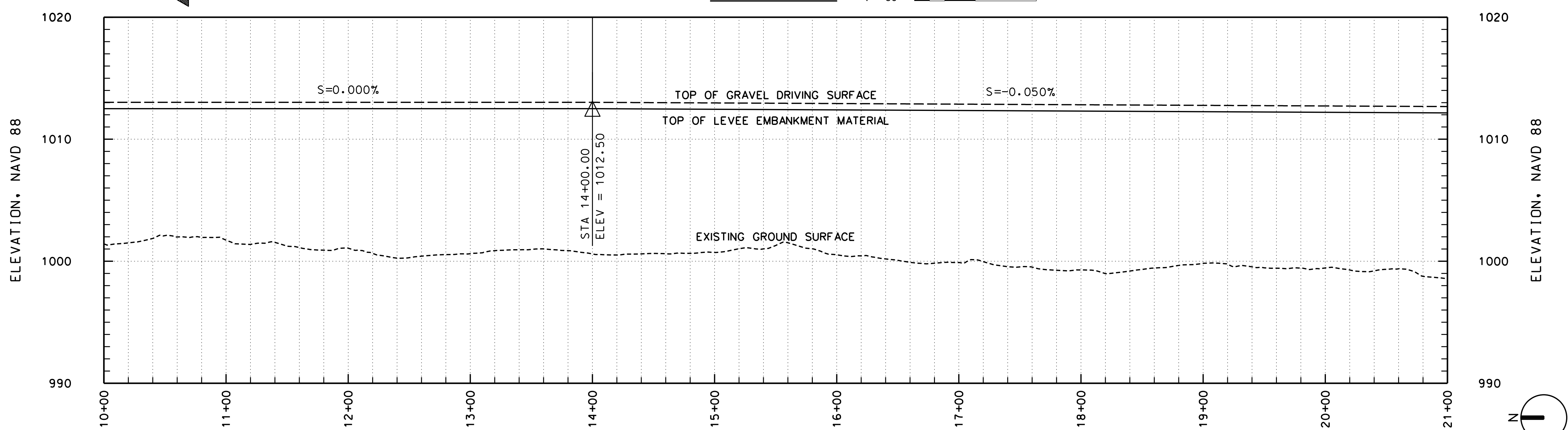


TP# TEST PIT NUMBER
& APPROXIMATE LOCATION

PLAN



•CAUTION•
OVERHEAD POWER LINES (115kV) NEAR STA 18+00. APPROXIMATE HEIGHT 60 FEET.
KEEP MINIMUM DISTANCE OF 15 FT FROM LINES (EM 385-1-1, TABLE 11-1).



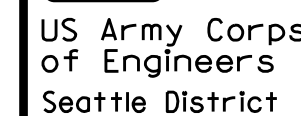
PROFILE

STATION (FT)

SURVEY NOTE:

SCALE: 1" = 100' C.I. = 5'
MAP COMPILED FROM AERIAL LIDAR FLOWN 2003.
HORIZONTAL CONTROL BASED ON WASHINGTON COORDINATE SYSTEM, NAD 83/91, SOUTH ZONE.
VERTICAL CONTROL BASED ON NAVD '88.

IF SHEET MEASURES LESS THAN 22" X 34" IT IS
A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

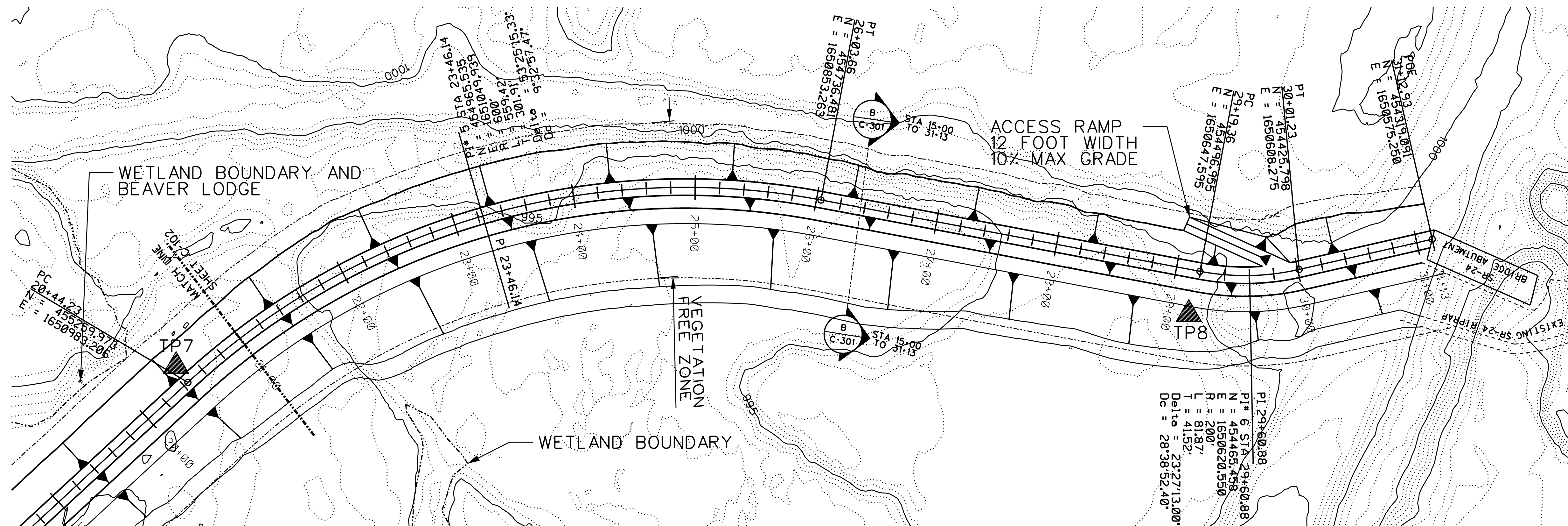
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U.S.ARMY ENGINEER DISTRICT/SEATTLE CORPS OF ENGINEERS SEATTLE, WASHINGTON	Designed by GOSS	Date 28DEC11
	Drawn by PEEL/GOSS	File # D-8-4-410
Prepared by	Checked by IFFT	Rev.

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SITE PLAN 3

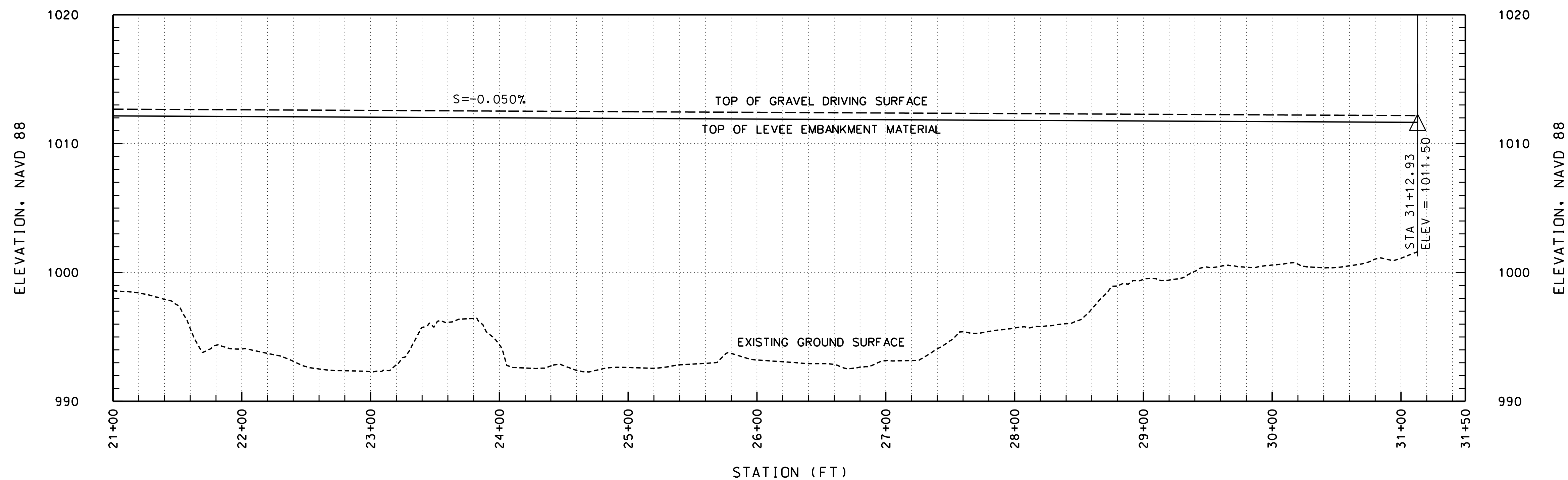
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LEGEND

TP# TEST PIT NUMBER
& APPROXIMATE LOCATION

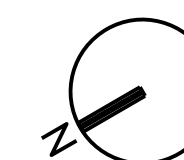
PLAN

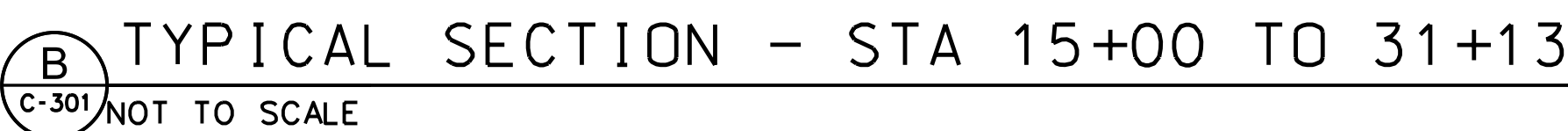
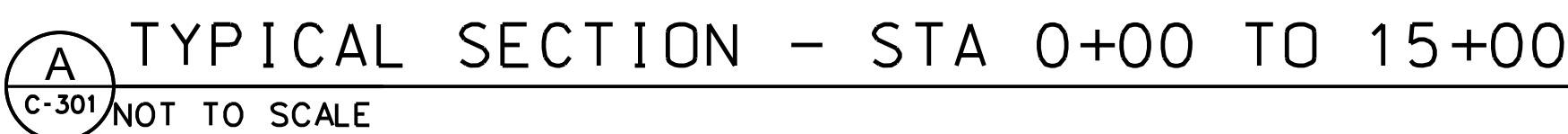
 $1'' = 50'$ 

SURVEY NOTE:

SCALE: 1" = 100' C.I. = 5'
MAP COMPILED FROM AERIAL LIDAR FLOWN 2003.
HORIZONTAL CONTROL BASED ON WASHINGTON COORDINATE SYSTEM, NAD 83/91, SOUTH ZONE.
VERTICAL CONTROL BASED ON NAVD '88.

IF SHEET MEASURES LESS THAN 22" X 34" IT IS
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NOTES:

1. DURING JANUARY CONSTRUCTION WINDOW, DO NOT PERFORM IN-WATER WORK IN RIVER. TIE-IN TO EXISTING LEVEE WITHOUT ENCRoACHING INTO THE RIVER. IN-WATER WORK IS REQUIRED AND ACCEPTABLE IN POND AT DOWNSTREAM END OF SETBACK ALIGNMENT.
2. STARTING AND ENDING ELEVATIONS AT UPSTREAM AND DOWNSTREAM TIE-INS ARE 1015.5 FT AND 1011.5 FT (NAVD88), RESPECTIVELY.
3. CLEAR AND GRUB THE FOOTPRINT TO 12" MAX, REMOVING TREES 15 FEET FROM TOES OF LEVEE. ALL REMOVED VEGETATION SHALL BE LEFT RIVERWARD OF LEVEE TO BE RECLAIMED BY RIVER UPON FUTURE REMOVAL OF EXISTING LEVEE. REMOVE SOFT, UNACCEPTABLE FOUNDATION MATERIALS IF ENCOUNTERED, AS DETERMINED BY EMERGENCY MANAGEMENT AND ON-SITE GEOTECHNICAL ENGINEER. TEST PIT LOGS ARE AVAILABLE IN APPENDIX 5 OF THE DESIGN ANALYSIS. REPLACE WITH SUITABLE LEVEE EMBANKMENT MATERIAL. UNSUITABLE FOUNDATION MATERIALS INCLUDE COMPRESSIBLE SILTS AND CLAYS, ORGANICS, AND TRASH. WHERE ALIGNMENT CROSSES W BIRCHFIELD ROAD, REMOVE ROADWAY AND REPLACE WITH LEVEE EMBANKMENT MATERIAL. UNSUITABLE MATERIALS MUST BE DISPOSED OF PROPERLY OFF-SITE ACCORDING TO YAKIMA COUNTY OR USED AS BACKFILL ABOVE THE BURIED TOE TO MATCH NATURAL GROUND.
4. SCOUR DEPTH IS 12 FEET FROM STA 0+00 TO STA 15+00. SCOUR DEPTH THEN DECREASES TO 8 FEET FROM STA 15+00 TO END STA 31+13. AT STA 15+00, TRANSITION BURIED TOE FROM DEPTH OF 12 FEET TO 8 FEET.
5. WHEN FULL SCOUR DEPTH IS NOT POSSIBLE, EITHER DUE TO FOOTPRINT OR HIGH GROUNDWATER TABLE, ADDITIONAL ROCK MAY BE PLACED ABOVE TYPICAL BURIED TOE, ACTING AS LAUNCHABLE MATERIAL TO PROVIDE SCOUR PROTECTION THAT COULD NOT BE BURIED. FOR EVERY 2 FEET OF DEPTH THAT CAN'T BE BURIED, ADD 1 FOOT OF LAUNCHABLE MATERIAL ABOVE THE TOE. THIS LAYER OF LAUNCHABLE MATERIAL SHOULD BE MAX 3 FEET HIGH.
6. THROUGH POND, STA 21+80 TO 27+40, NO EXCAVATION WILL BE NECESSARY TO PLACE ROCK TOE OR EMBANKMENT DUE TO TOPOGRAPHY. PLACE (END DUMP) LEVEE EMBANKMENT MATERIAL, MIXED WITH QUARRY SPALLS AND RIPRAP FOR STABILITY, UNTIL ABOVE POND WATER SURFACE. ACCORDING TO EM 1110-2-1913, SECTION 7-3, MATERIAL PLACED UNDERWATER WILL UNDERGO COMPACTION FROM WEIGHT OF MATERIAL AND EQUIPMENT AS MORE MATERIAL IS PLACED. COMPACTION MAY BEGIN ONCE MATERIAL IS ABOVE THE WATER SURFACE.
7. PLACE LEVEE EMBANKMENT MATERIAL IN APPROXIMATELY 12" LIFTS AND COMPACTED ACCORDING TO EM 1110-2-1913, TABLE 7-1, CATEGORY 2.
8. AT START OF CONSTRUCTION, TEST A SECTION OF LEVEE TO DETERMINE IF COMPACTION REQUIREMENT OF 95% HAS BEEN ACHIEVED. VERIFY WITH CERTIFIED LABORATORY BY PERFORMING SAND CONE OR NUCLEAR GAUGE DENSITIES. PERIODICALLY CHECK DENSITY THROUGHOUT CONSTRUCTION. TESTING SHOULD OCCUR EVERY LIFT, EVERY 2000 LF.
9. HYDROSEED ALL EXPOSED LEVEE EMBANKMENT MATERIAL USING COMMERCIALLY AVAILABLE, NATIVE GRASSES.

MATERIAL QUANTITIES

GRAVEL TOP SURFACE:	851 YD3 = 1,021 TON
LEVEE EMBANKMENT:	69,931 YD3 = 83,270 TON
QUARRY SPALLS:	5,504 YD3 = 7,156 TON
CLASS 5 RIPRAP:	26,912 YD3 = 40,368 TON
SETBACK SLOPE:	10,027 YD3 = 15,041 TON
SETBACK BURIED TOE:	9,100 YD3 = 13,650 TON
SCOUR PROTECTION:	6,300 YD3 = 9,450 TON
CROSS DIKE SLOPE:	1,485 YD3 = 2,228 TON

MATERIAL SPECIFICATIONS

CLASS 5 RIPRAP: 165 LB/FT ³ , D85/D15 = 2		
100% SMALLER THAN 1800LBS / 33.4INCHES		
50% SIZE, 750LBS / 24.9INCHES		
90% LARGER THAN 350LBS / 19.3INCHES		
10% RANGE, 25-350LBS / 6-16INCHES		
QUARRY SPALLS:	4 TO 8 INCHES	
LEVEE EMBANKMENT:	SIEVE SIZE	% PASSING
	6 INCH	100%
	3 INCH	90-100%
	1 INCH	65-95%
	1/2 INCH	40-80%
	#4	25-70%
	#40	15-55%
	#200	5-30%

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	Drawn by:	PEELE/GOSS	Title:	D-8-4-410
	Checked by:	IFFT	Rev.	
Prepared by:				

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TYPICAL SECTIONS
AND MATERIALS

YAKIMA COUNTY WASHINGTON

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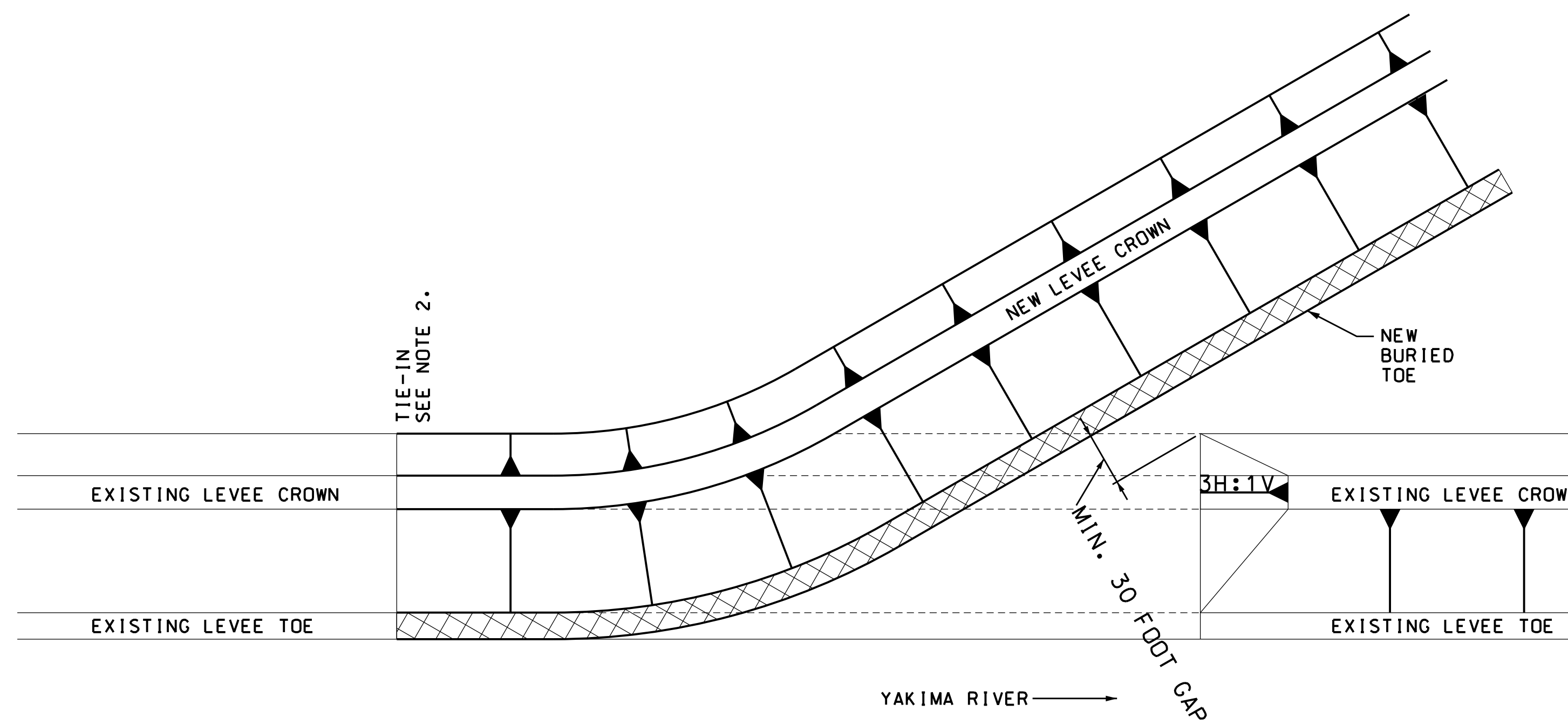
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TIE-IN DETAIL

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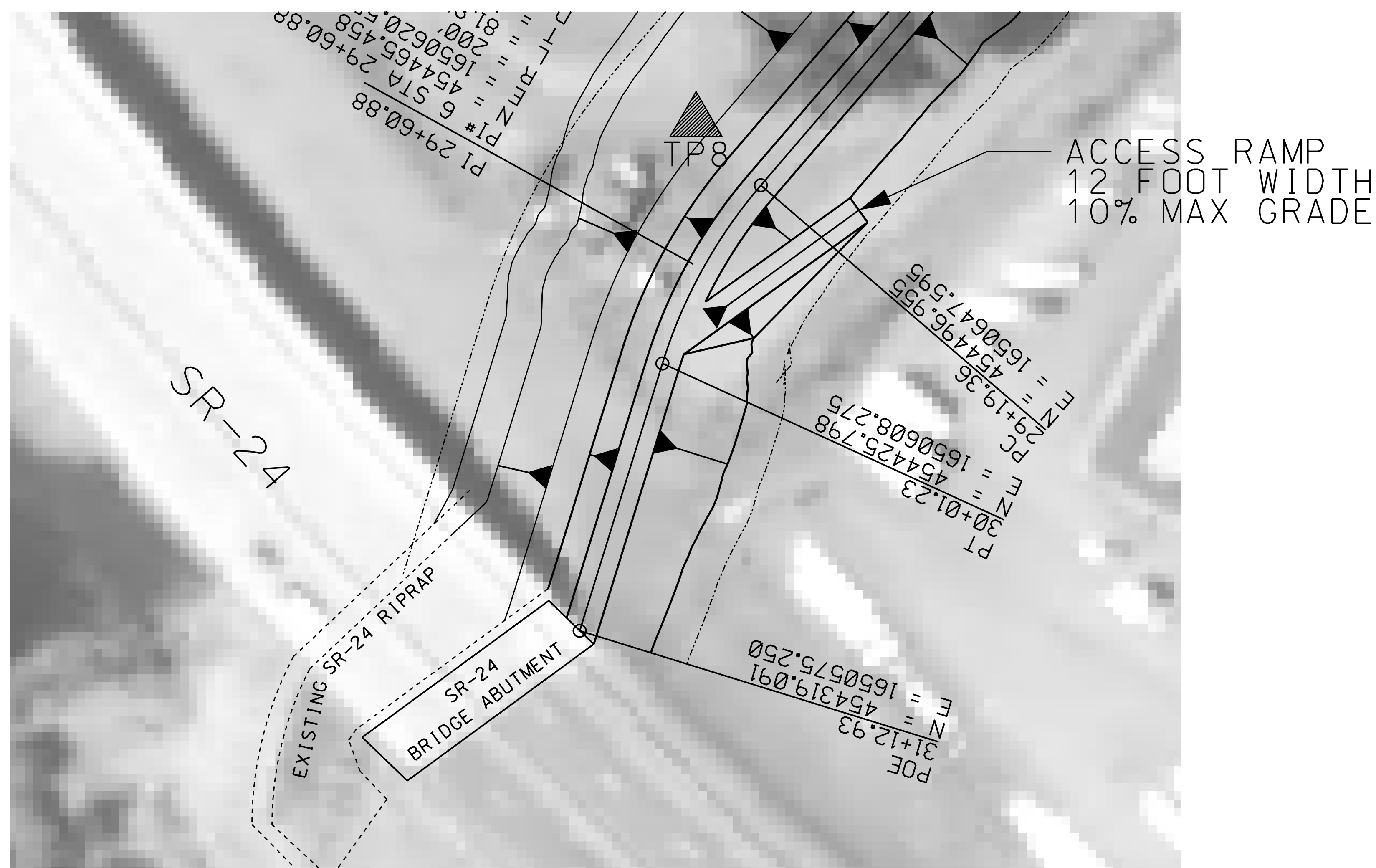


UPSTREAM TIE-IN DETAIL

NOT TO SCALE

- NOTES:

1. AT UPSTREAM TIE-IN, CUT THROUGH EXISTING LEVEE AND MATCH UPSTREAM EDGE WITH NEW LEVEE SECTION. MATCH CROWN AND SHOULDER POINTS, LANDWARD TOE, AND RIVERWARD TOE. AS NEW LEVEE MOVES AWAY FROM EXISTING, TRANSITION TO NEW LEVEE SECTION WITH BURIED TOE. A MIN. 30 FOOT GAP SHALL BE LEFT WHERE EXISTING LEVEE IS LOWERED IN ORDER TO ACCOMMODATE NEW LEVEE CONSTRUCTION AND EQUIPMENT TO PASS THROUGH. THE SLOPE SHOULD BE 3H:1V IN THE GAP.
2. UPSTREAM MATCHING ELEVATION FOR TIE-IN OF TOP OF LEVEE EMBANKMENT MATERIAL IS 1015.5 FT (NAVD88). THERE IS AN ADDITIONAL 6 INCHES OF GRAVEL WEARING COURSE ABOVE THE LEVEE EMBANKMENT MATERIAL.
3. DOWNSTREAM TIE-IN ELEVATION OF THE LEVEE EMBANKMENT MATERIAL IS 1011.5 FT (NAVD88).
4. LEVEE CROWN SHALL TIE-INTO SR-24 BRIDGE ABUTMENT. RIVERWARD FACE AND TOE OF NEW LEVEE SHALL MATCH EXISTING SLOPE AND BURIED TOE BENEATH SR-24 BRIDGE TO FORM SMOOTH SLOPE TRANSITION.
5. REMOVE EXISTING RIPRAP AND FILL AT CONNECTION POINT TO THE SR-24 BRIDGE TO CREATE SOIL ON SOIL CONNECTION BETWEEN LEVEE EMBANKMENT MATERIAL AND ABUTMENT EMBANKMENT FILL. ENSURE PROPER COMPACTION OF LEVEE EMBANKMENT MATERIAL PRIOR TO REPLACING SR-24 RIPRAP AND PLACING LEVEE RIPRAP AND QUARRY SPALLS IN SMOOTH TRANSITION.
6. MAINTAIN THE MINIMUM OF 2 FEET CLEARANCE BENEATH THE BRIDGE DECK AND ABOVE THE EMBANKMENT/RIPRAP.



DOWNSTREAM TIE-IN DETAIL

NOT TO SCALE

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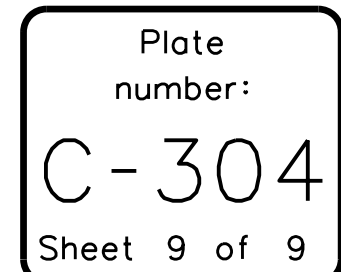
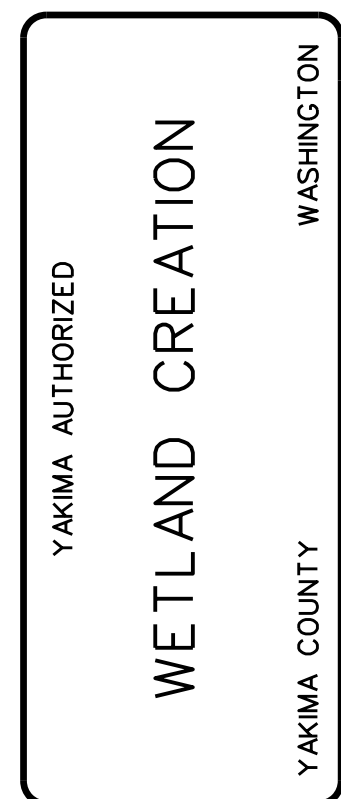
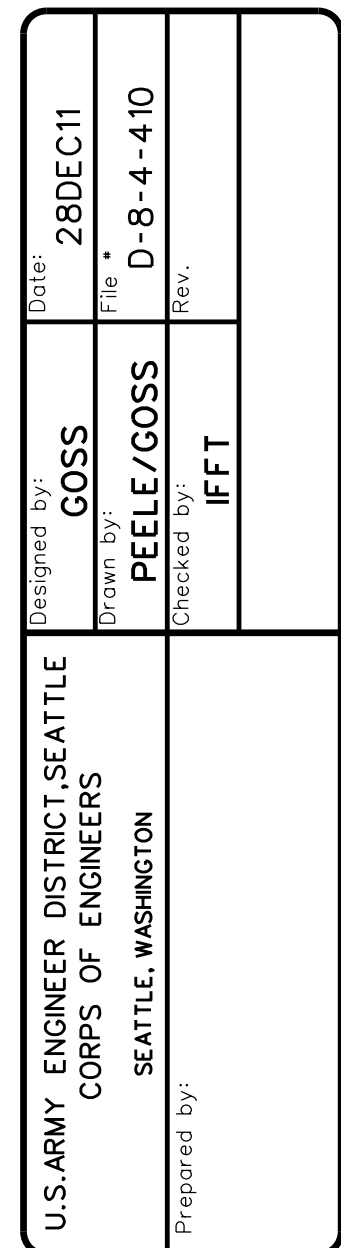
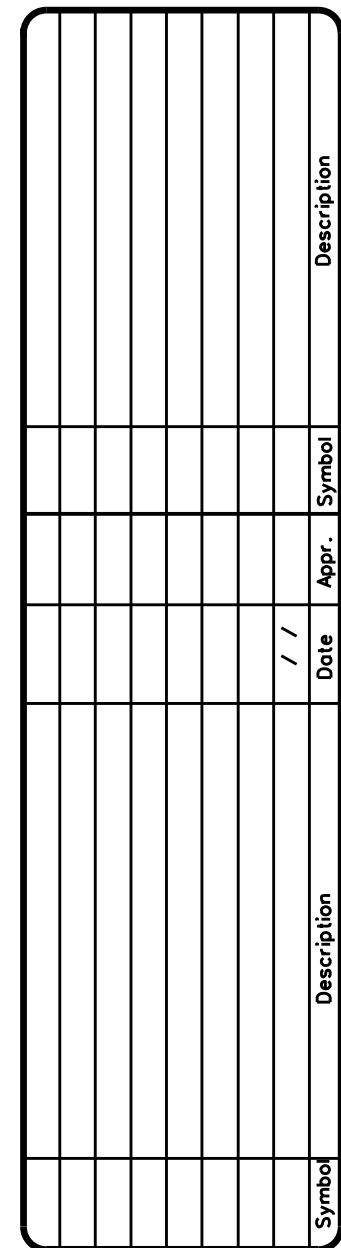


1. MODIFY EXISTING STRUCTURE (OLD SR-24 ROAD EMBANKMENT, "CROSS DIKE") BY NARROWING CROWN WIDTH FROM 60 FEET TO 30 FEET CROWN WIDTH, USING THE EXCESS MATERIAL TO INCREASE HEIGHT TO 1011 FT (NAVD88).
2. REMOVE RIVERWARD END OF "CROSS DIKE" (APPROX. 270 FEET) AND REMOVE 200 FEET OF THE EXISTING FEDERAL LEVEE. LOWER GROUND SURFACE BY 2-3 FEET BENEATH EXISTING AND SLOPE IT TO FORM OUTFLOW CHANNEL (SEE SECTION D).
3. ROUND THE CORNER FROM CROSS DIKE TO EXISTING COUNTY LEVEE DOWNSTREAM OF SR-24 BRIDGE.
4. PLACE 1 FT BLANKET OF 4" TO 8" QUARRY SPALLS AND 4 FOOT BLANKET OF RIPRAP. RIPRAP ENDS AT THE EXISTING DOWNSTREAM LEVEE. RIPRAP THICKNESS TAPERS FROM 4 FT TO 2 FT AS IT TIES INTO NEWLY CONSTRUCTED LEVEE AT THE SR-24 BRIDGE ABUTMENT.
5. TIE CROSS DIKE INTO NEWLY CONSTRUCTED SETBACK LEVEE.



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