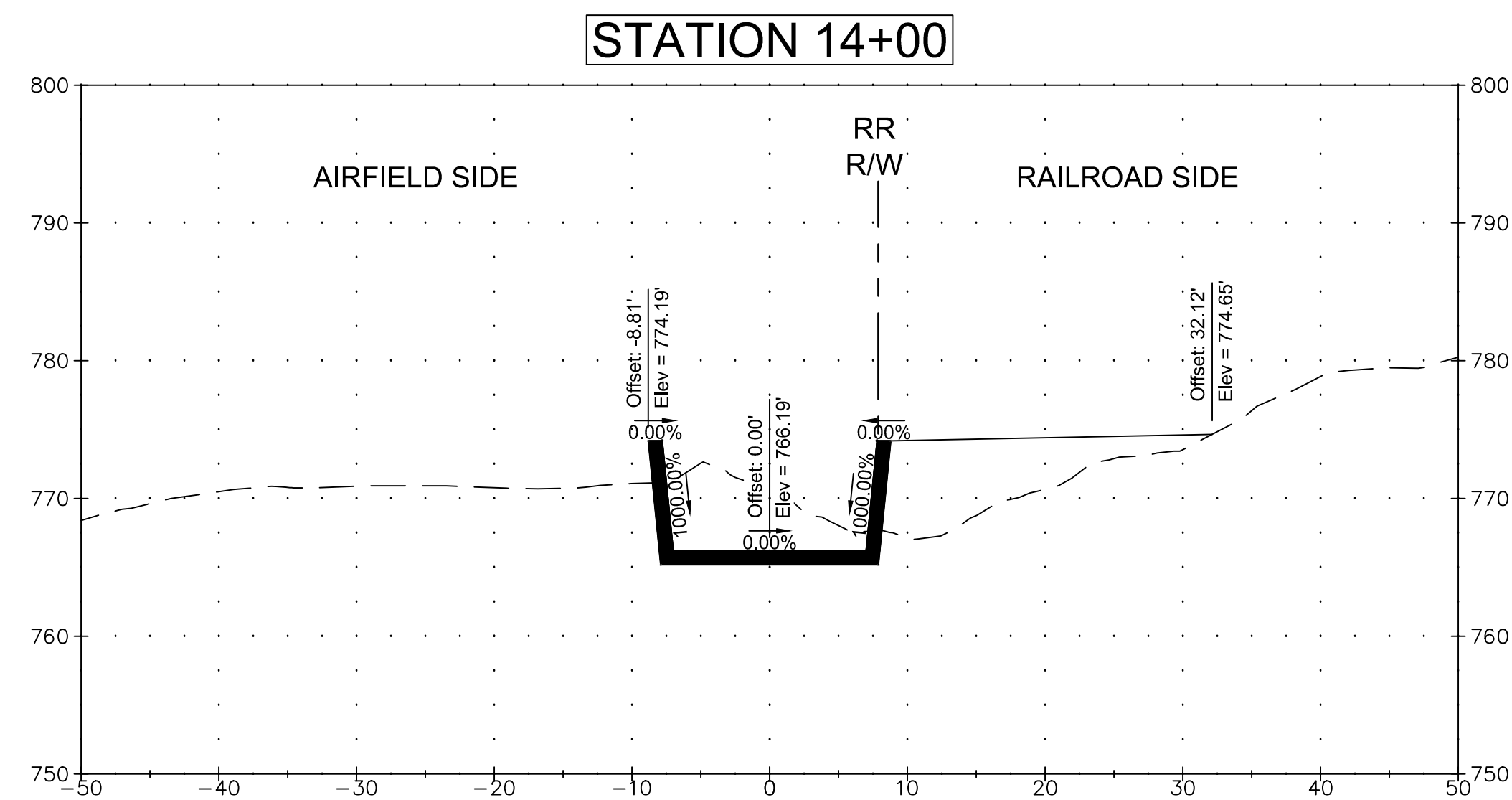
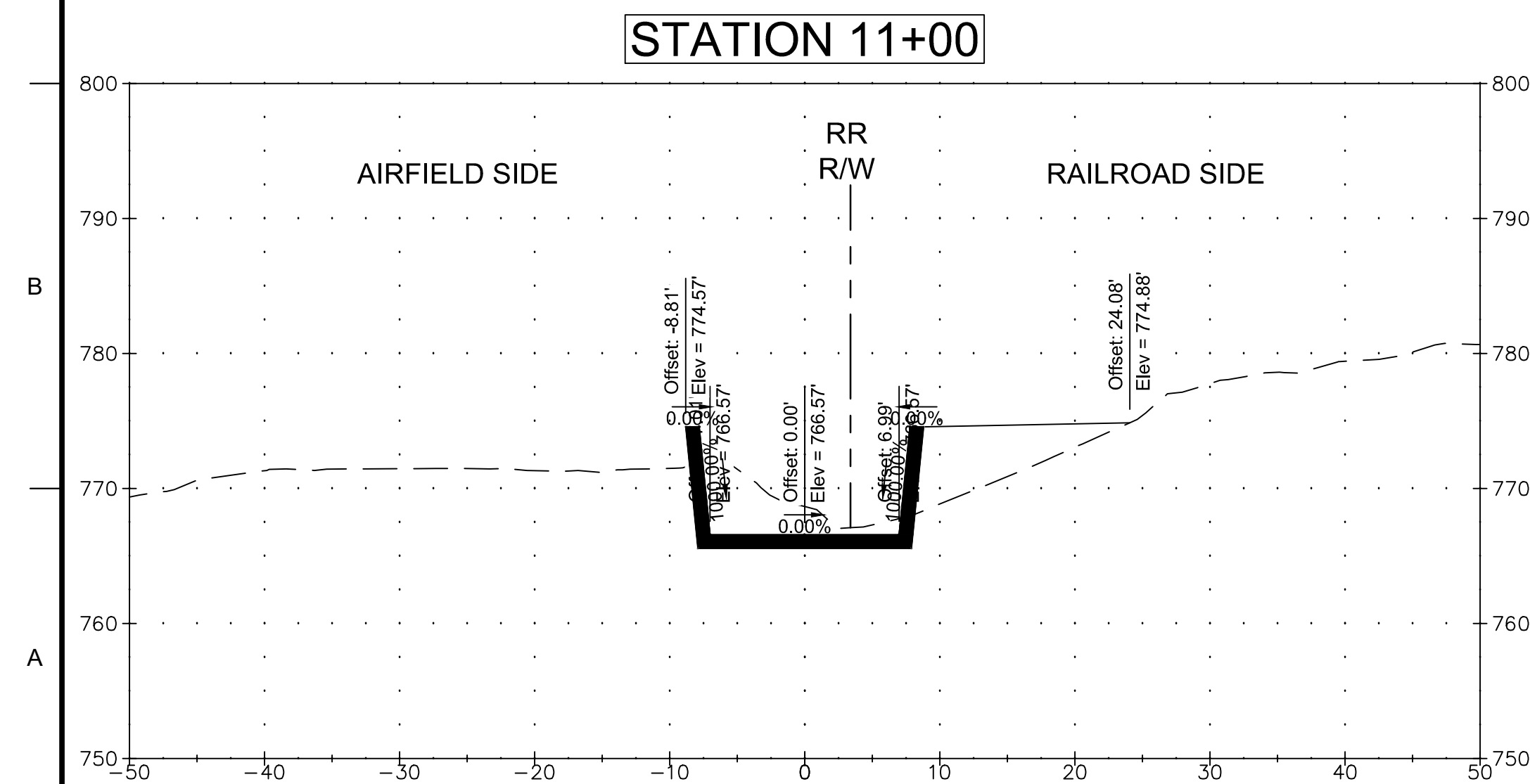
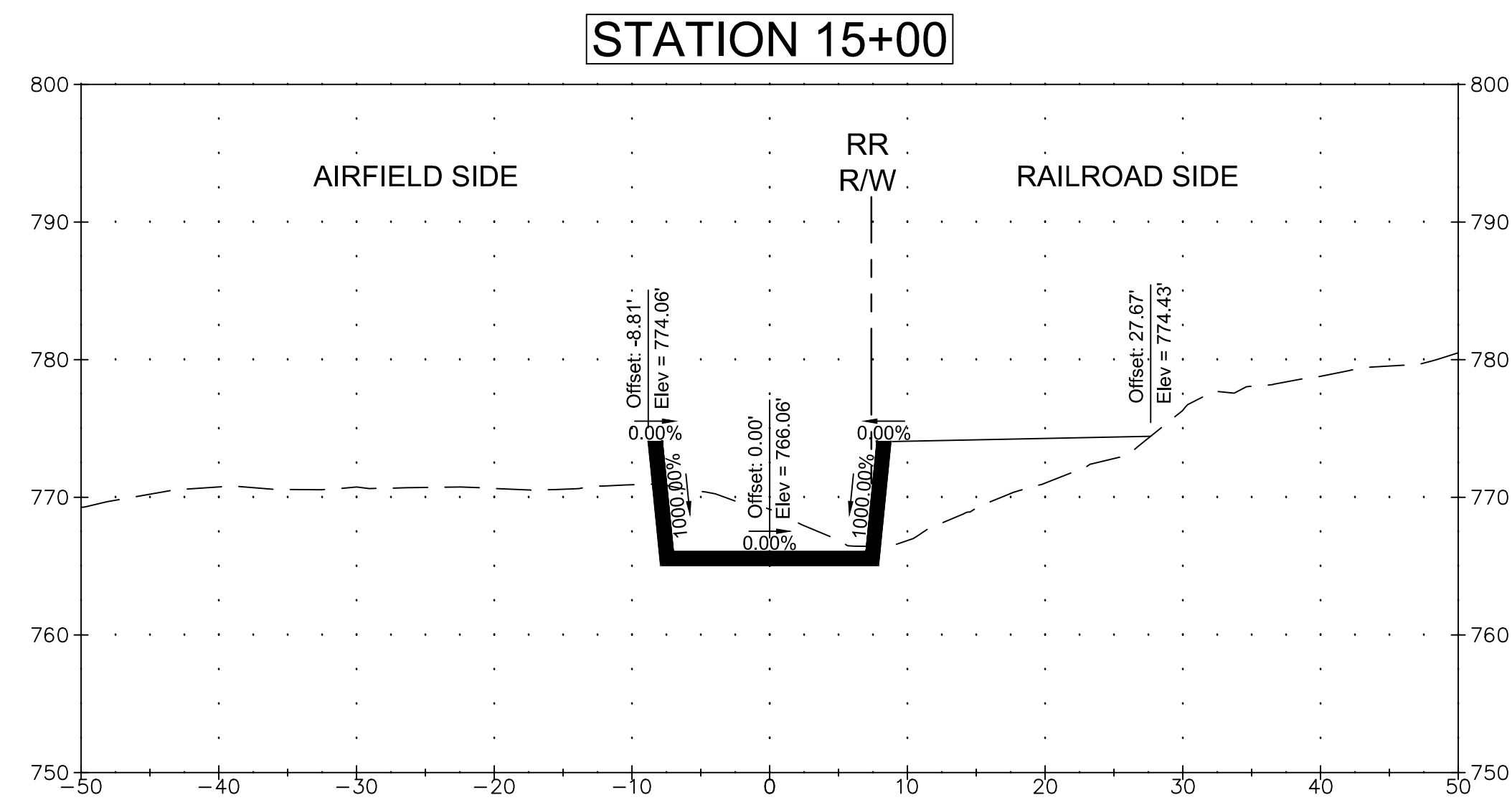
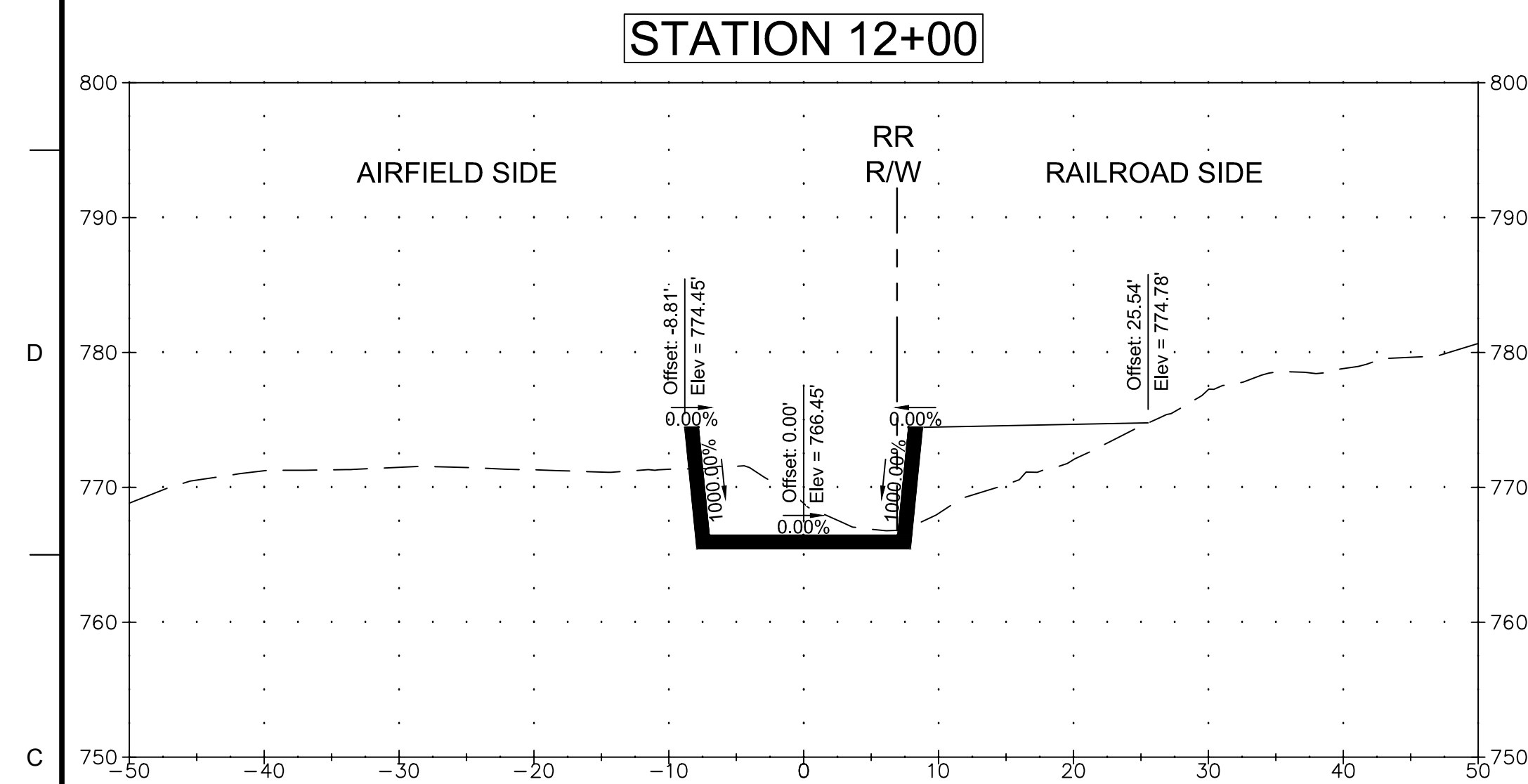
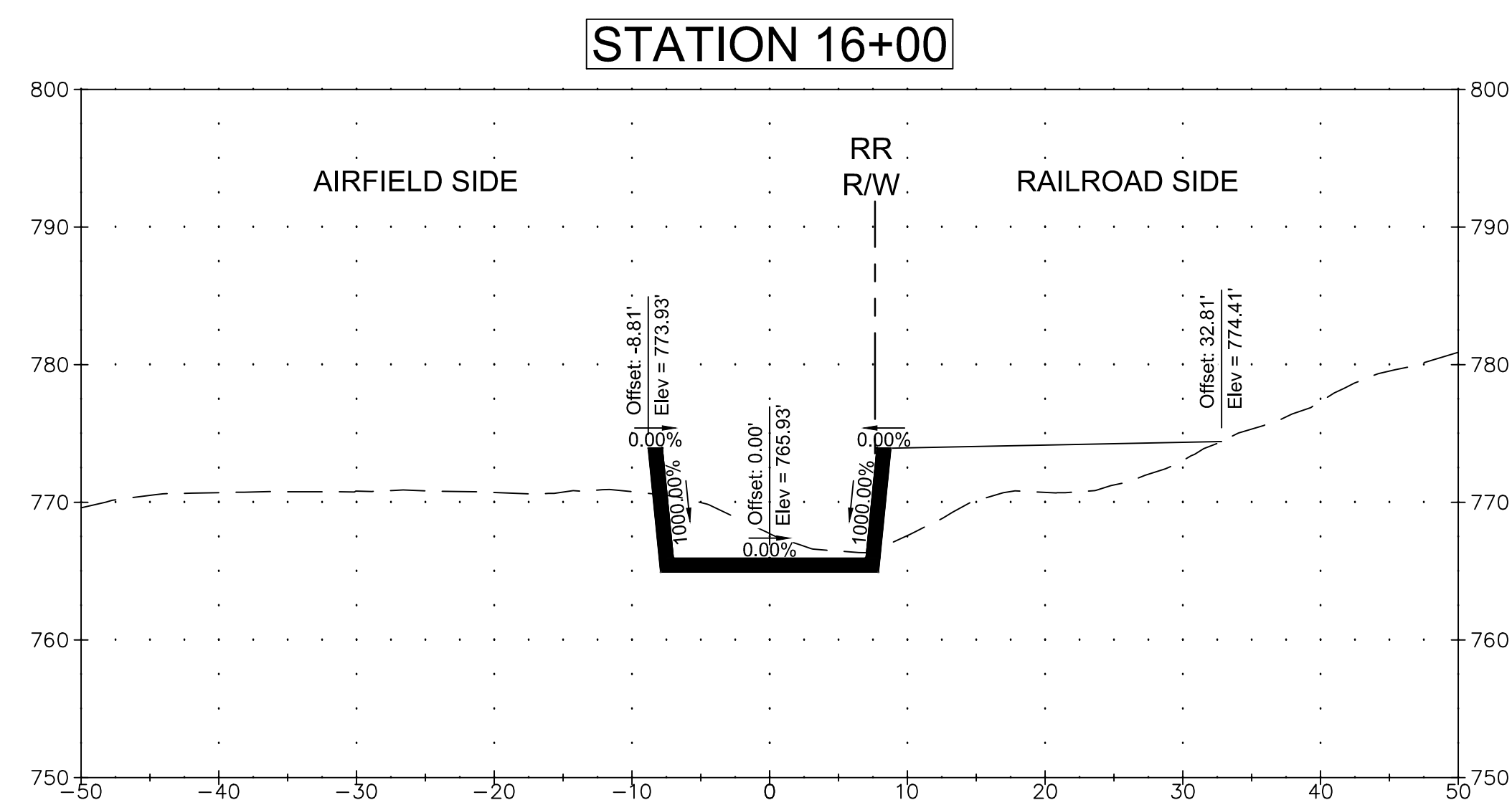
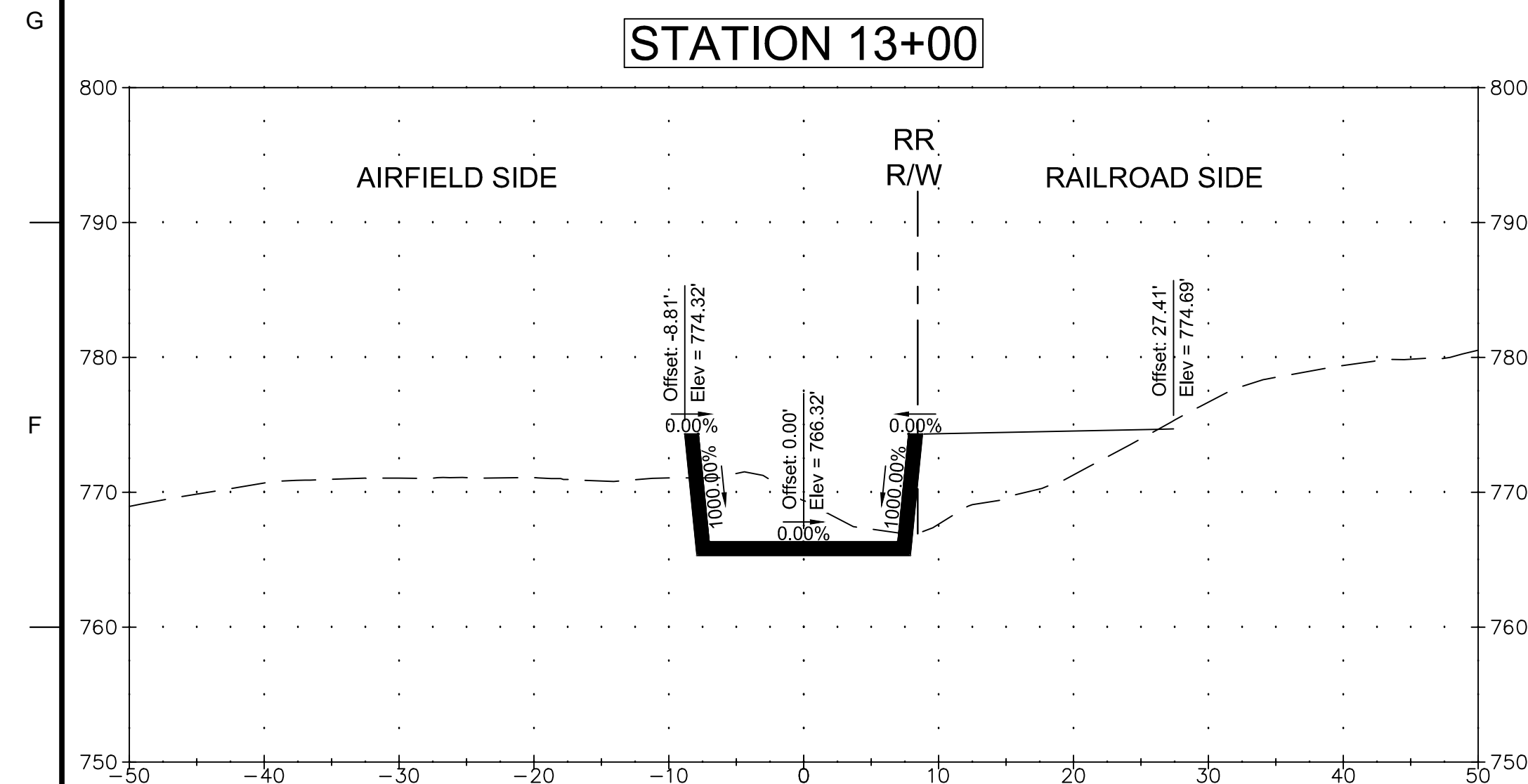
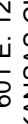




**U.S. Army Corps
Engineers®**

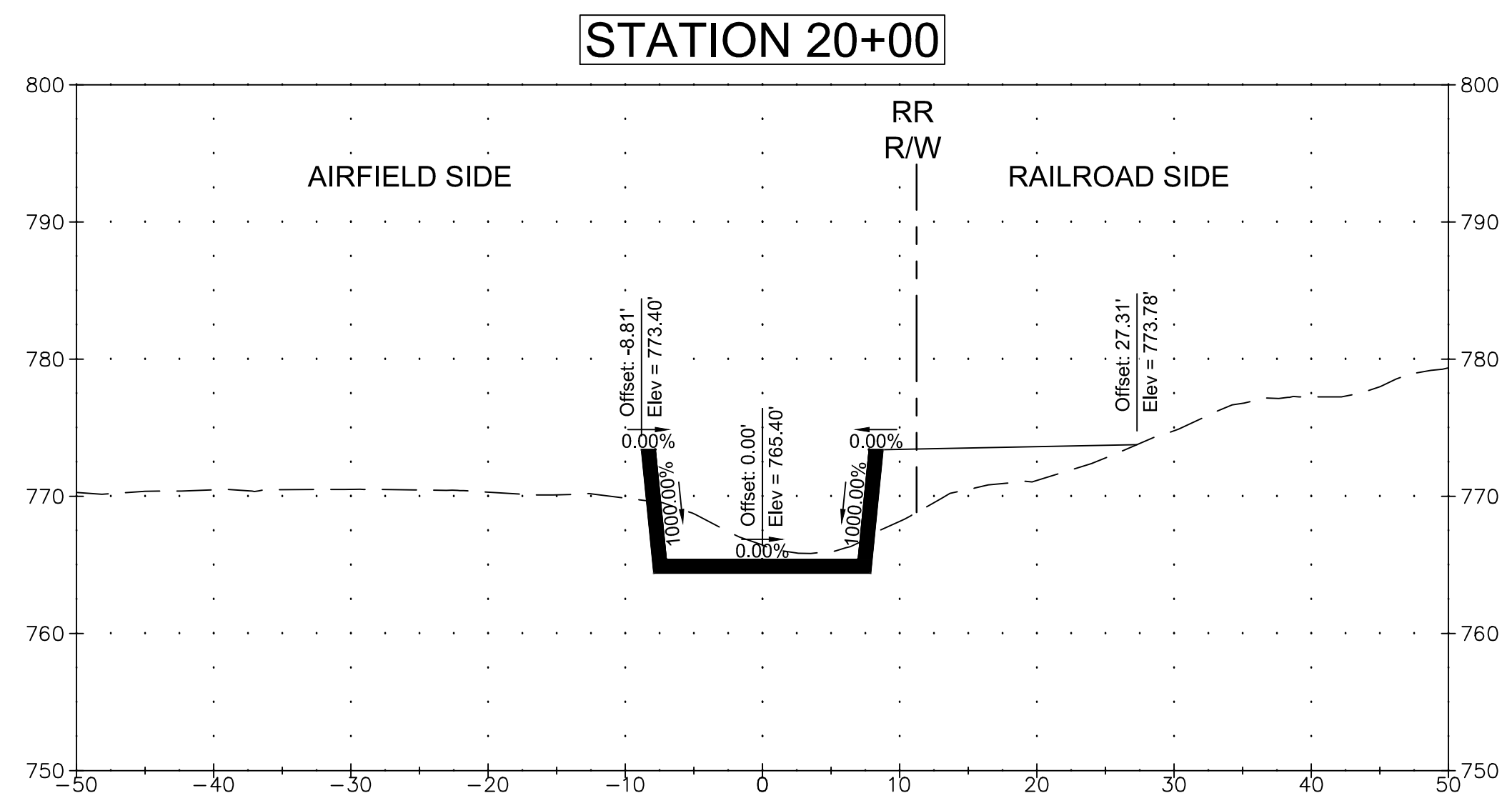
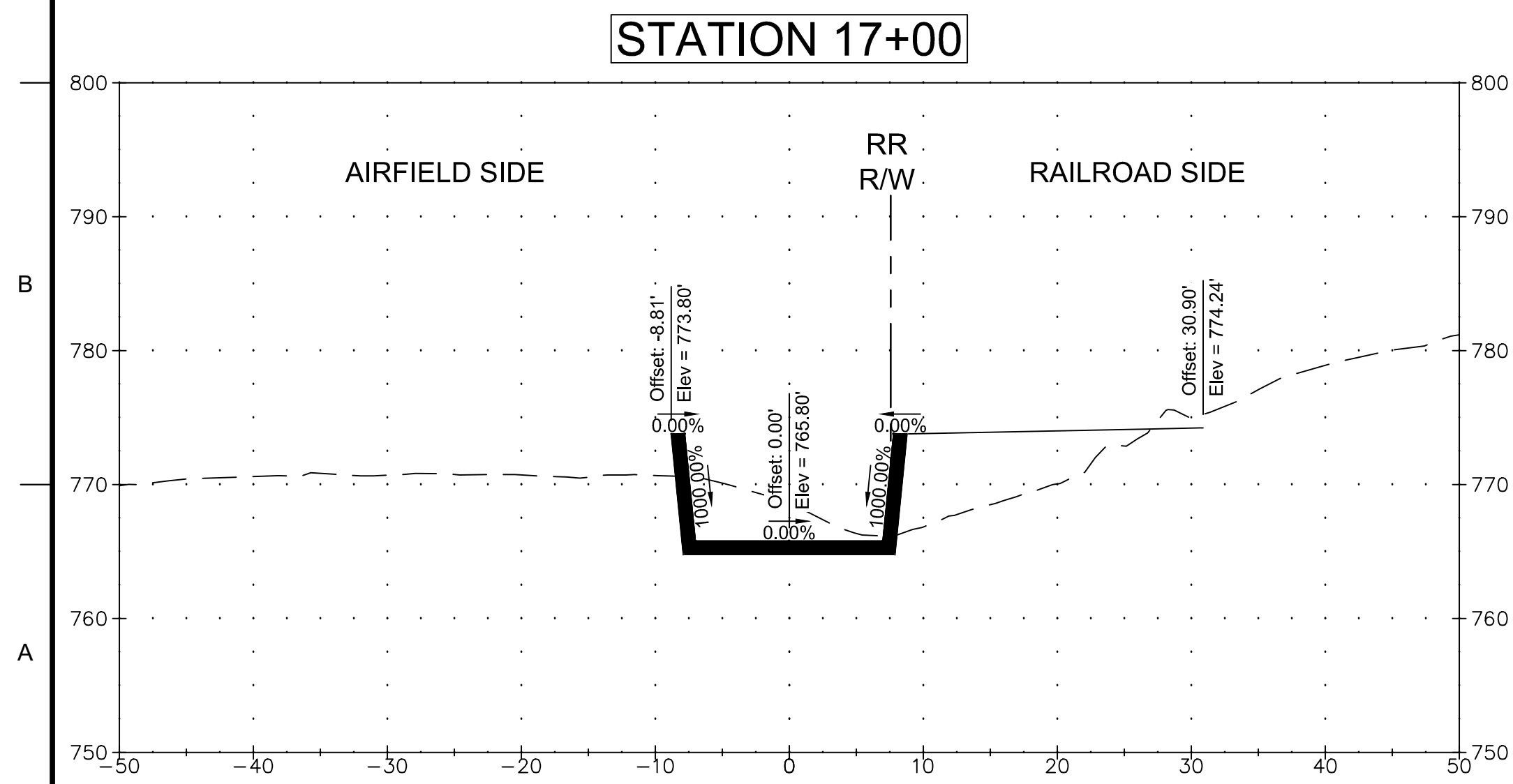
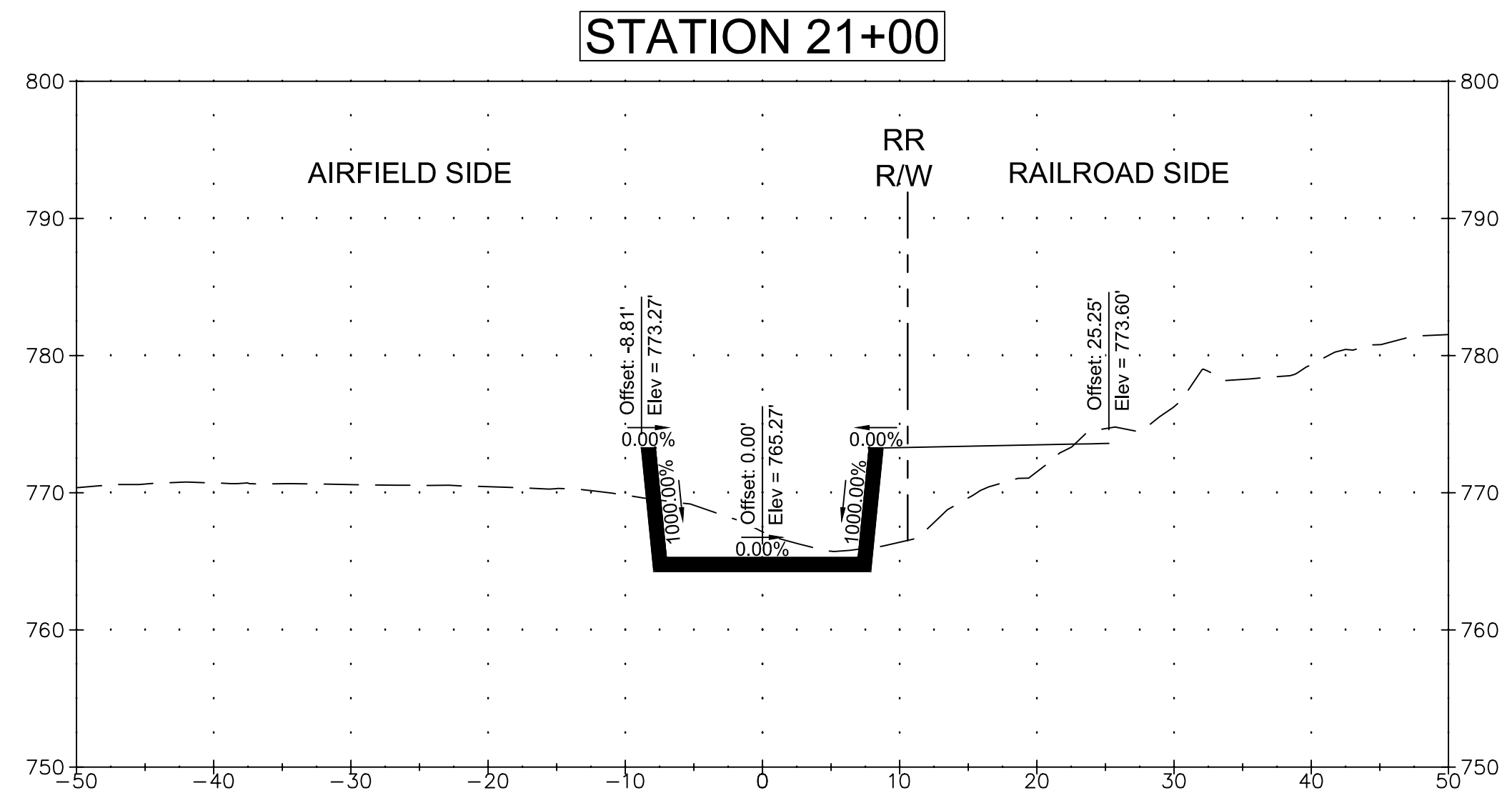
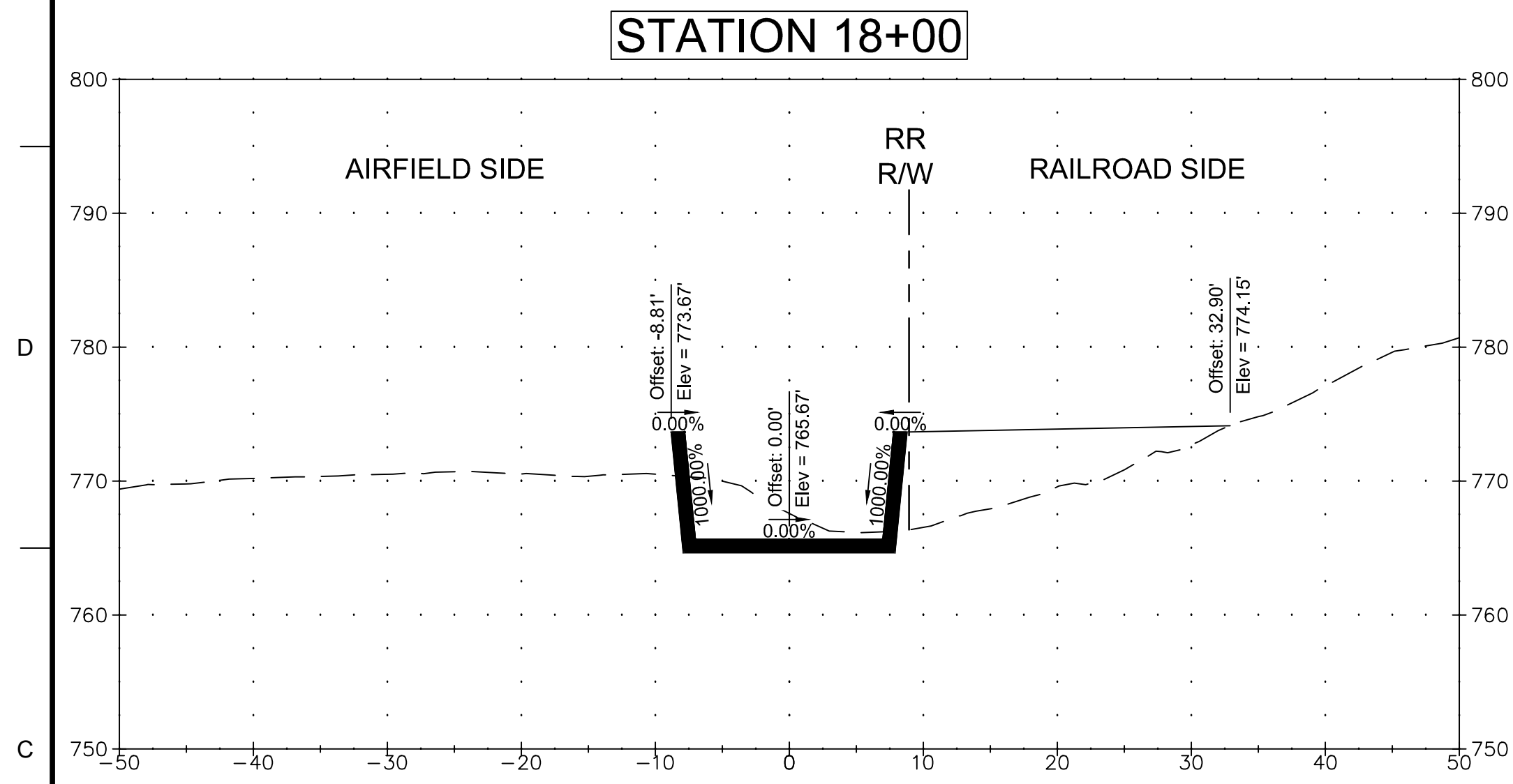
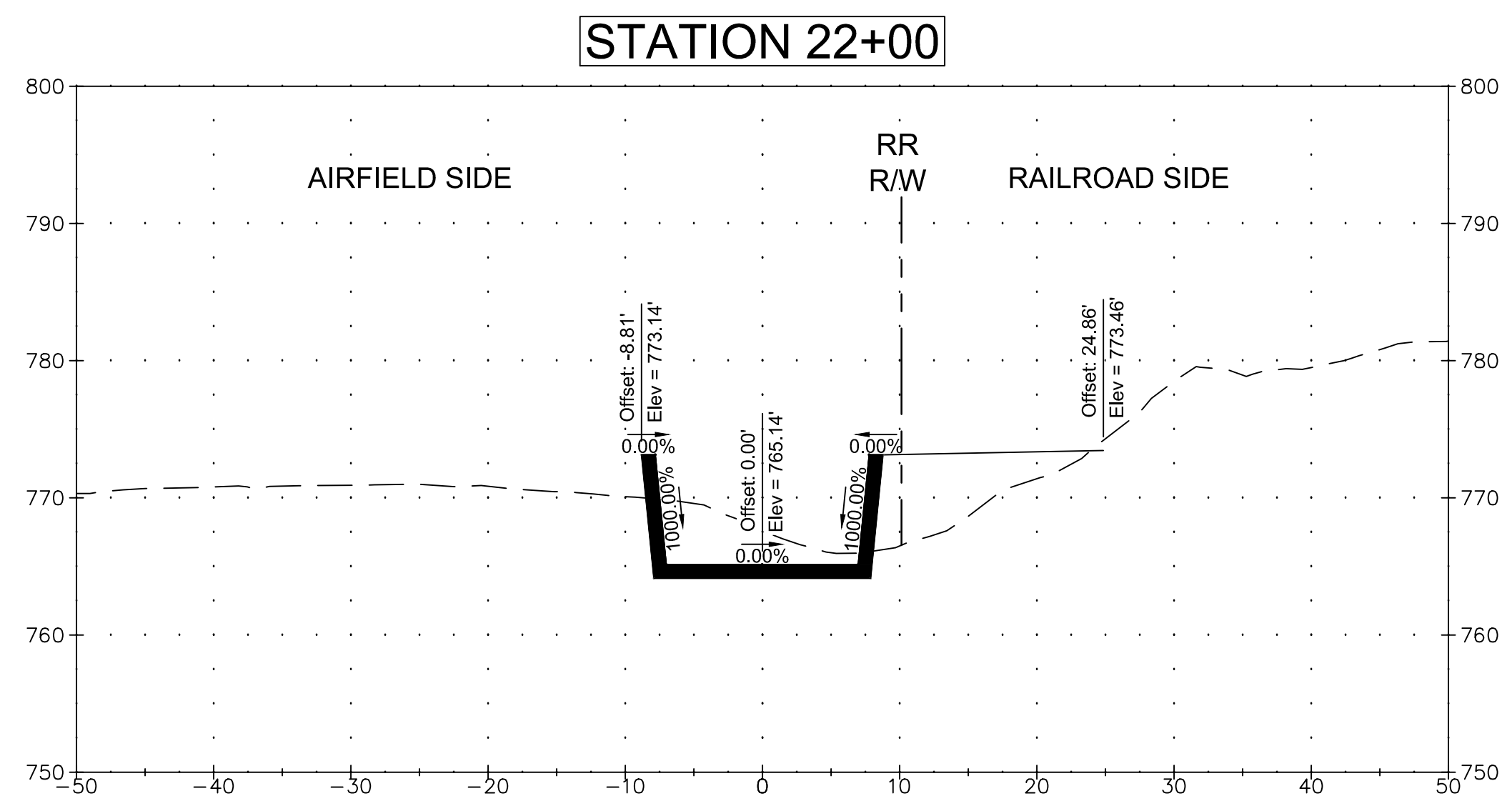
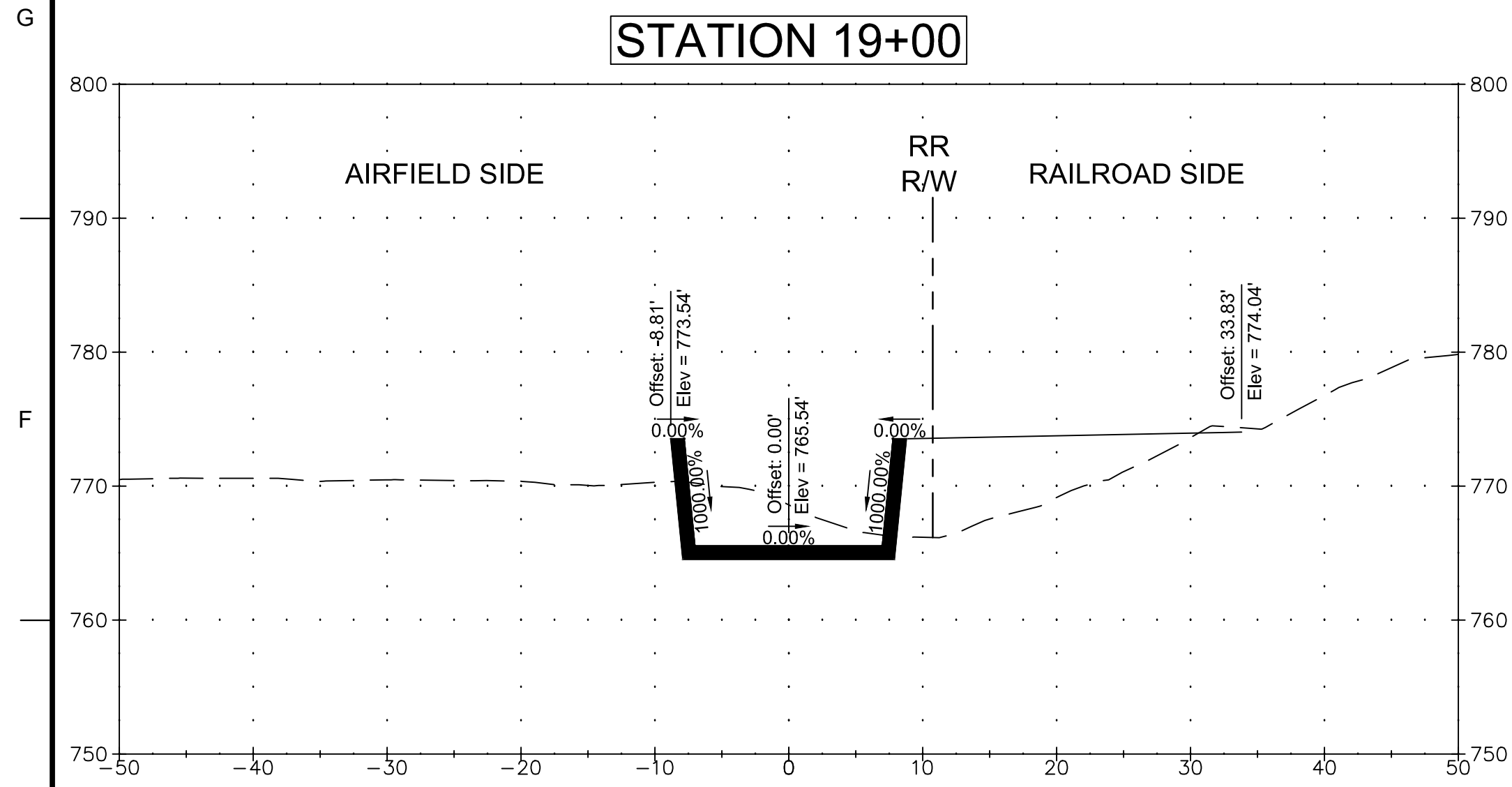
[illegible]

 Stanley Consultants inc. GEO – Survey, Joint Venture 1	DRAWN BY:		SOLICITATION NO.: W912D020R4021
	CHECKED BY:		CONTRACT NO.: TBD
SUBMITTED BY:		SIZE: ANSI D	

QUARRY CREEK CHANNEL CROSS SECTIONS
STA. 11+00 TO STA. 16+00

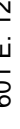
SHEET ID

CG331



**U.S. Army Corps
Engineers®**

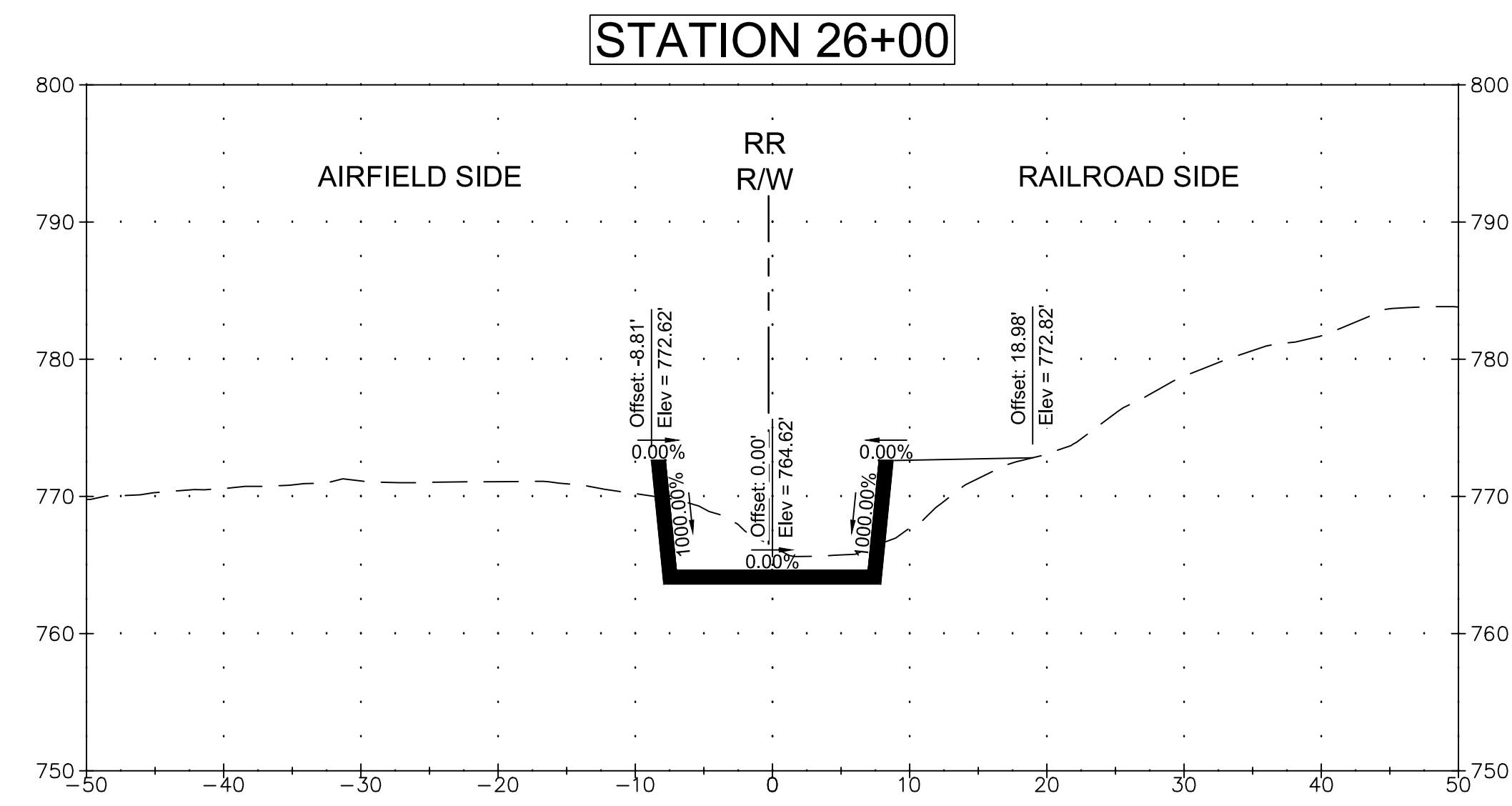
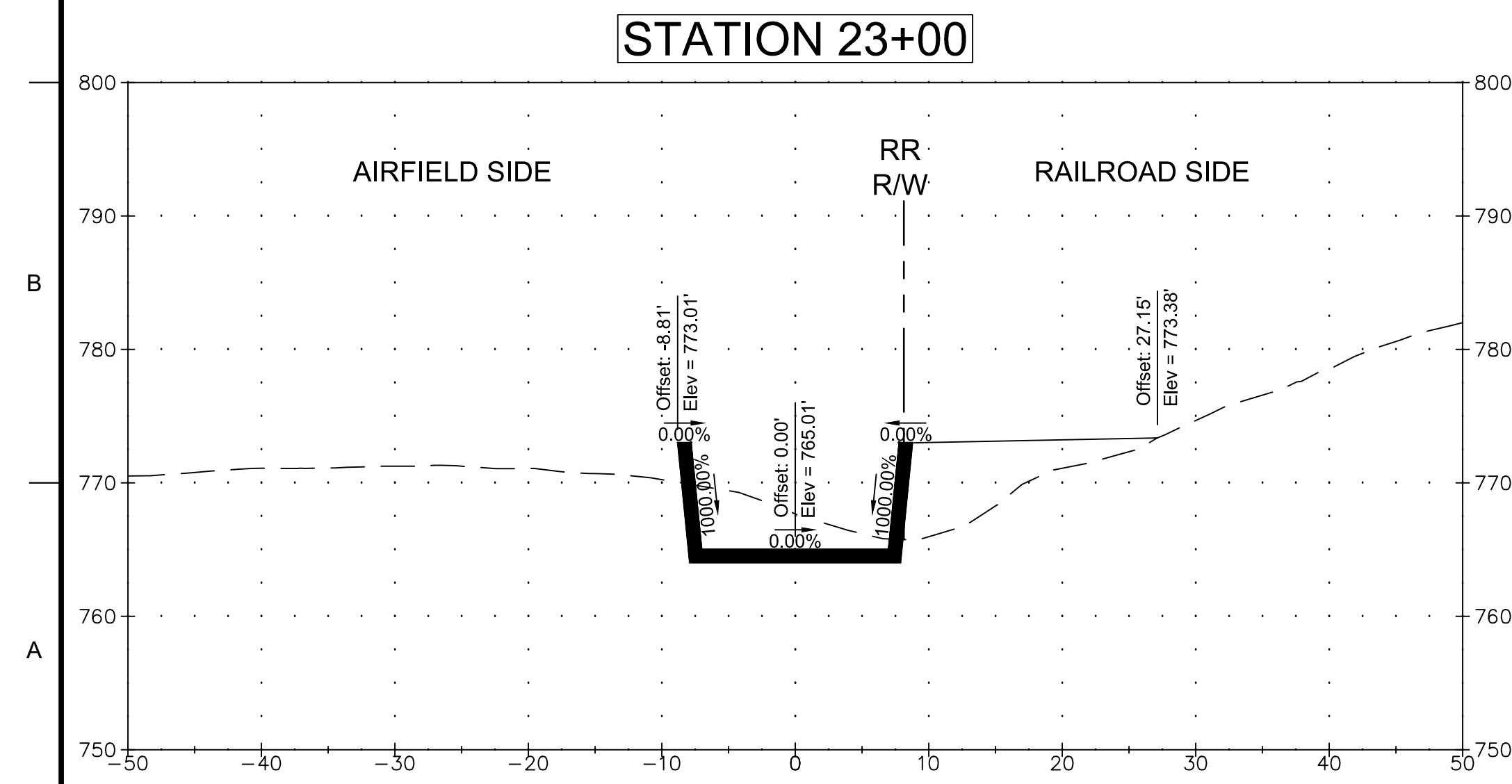
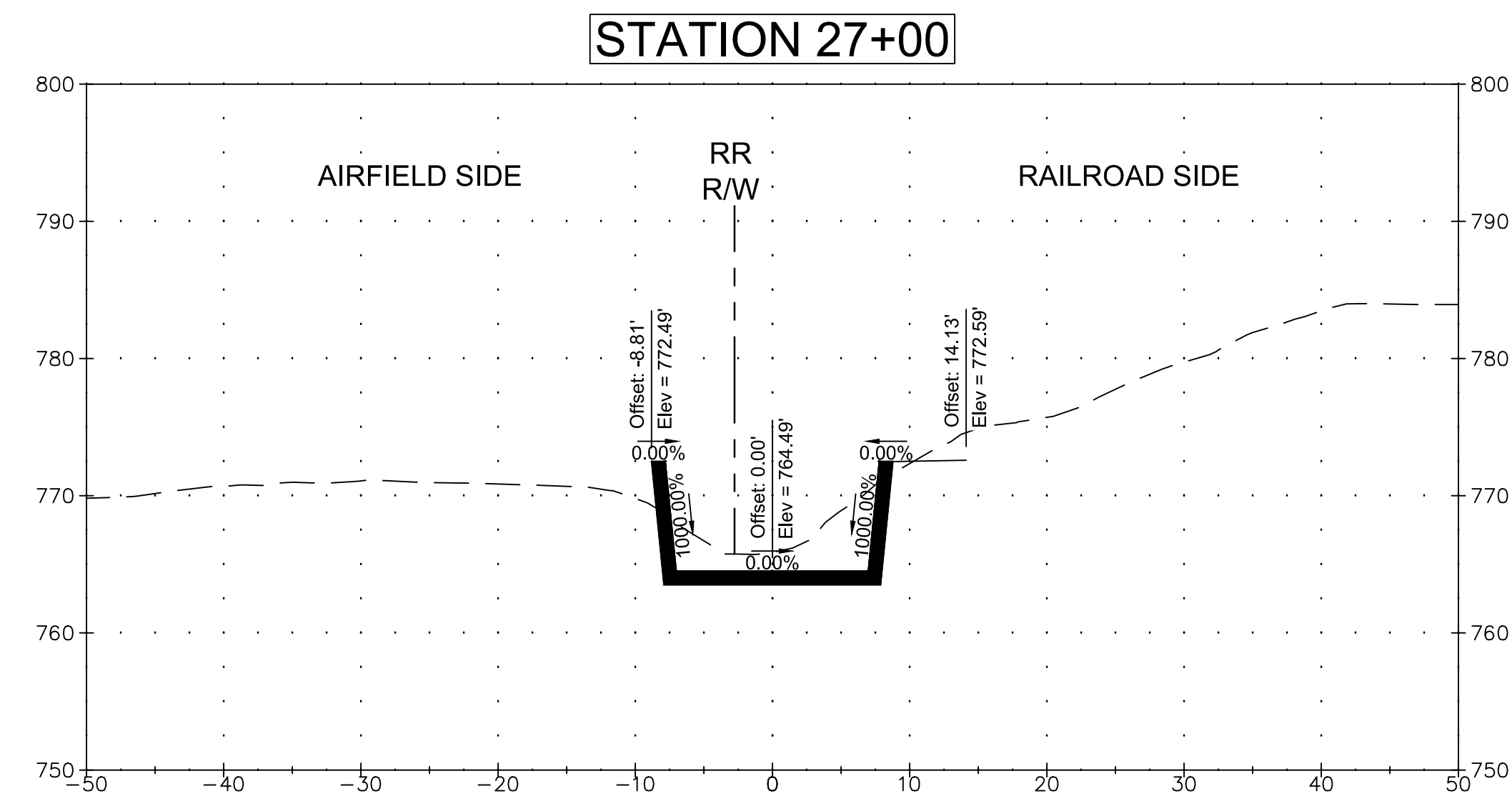
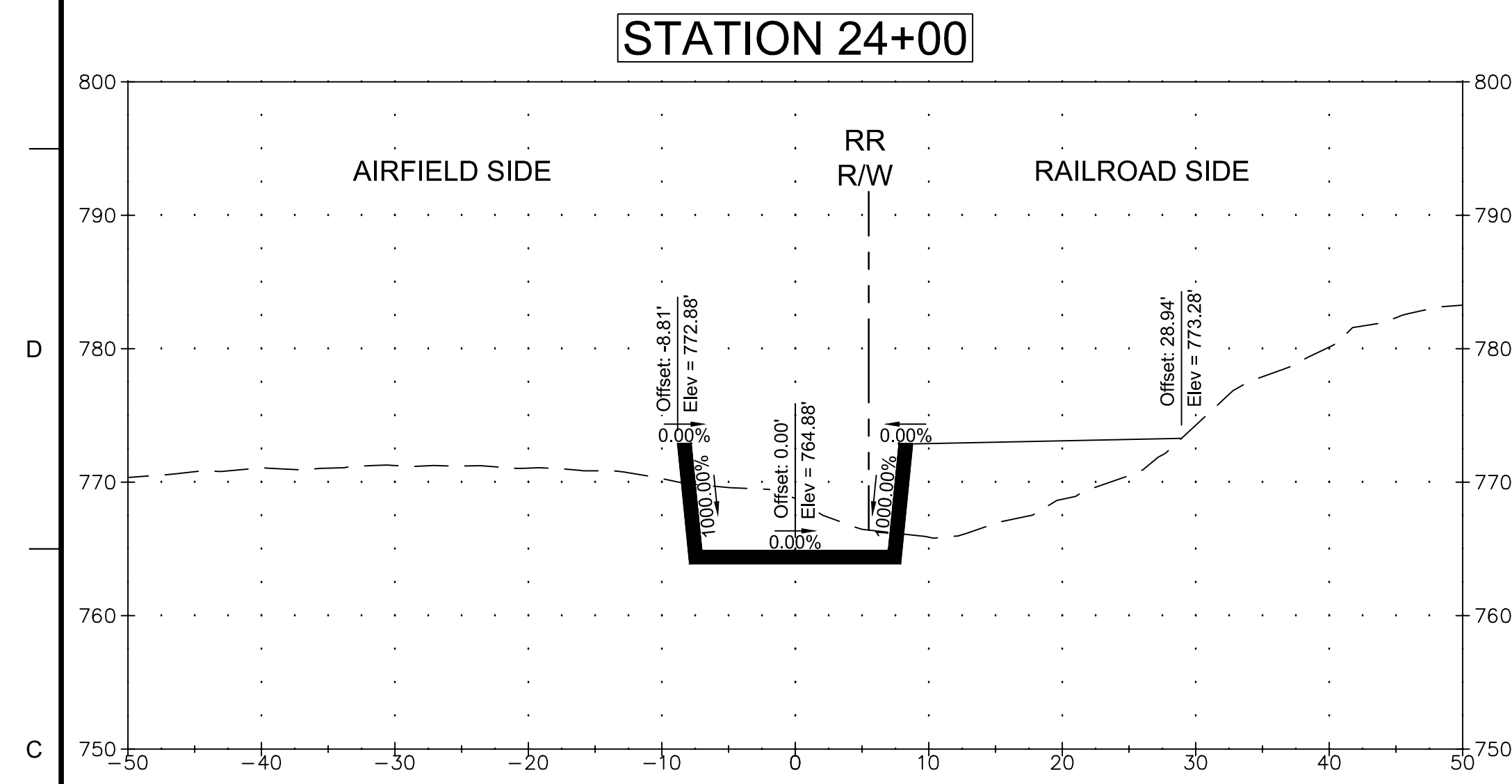
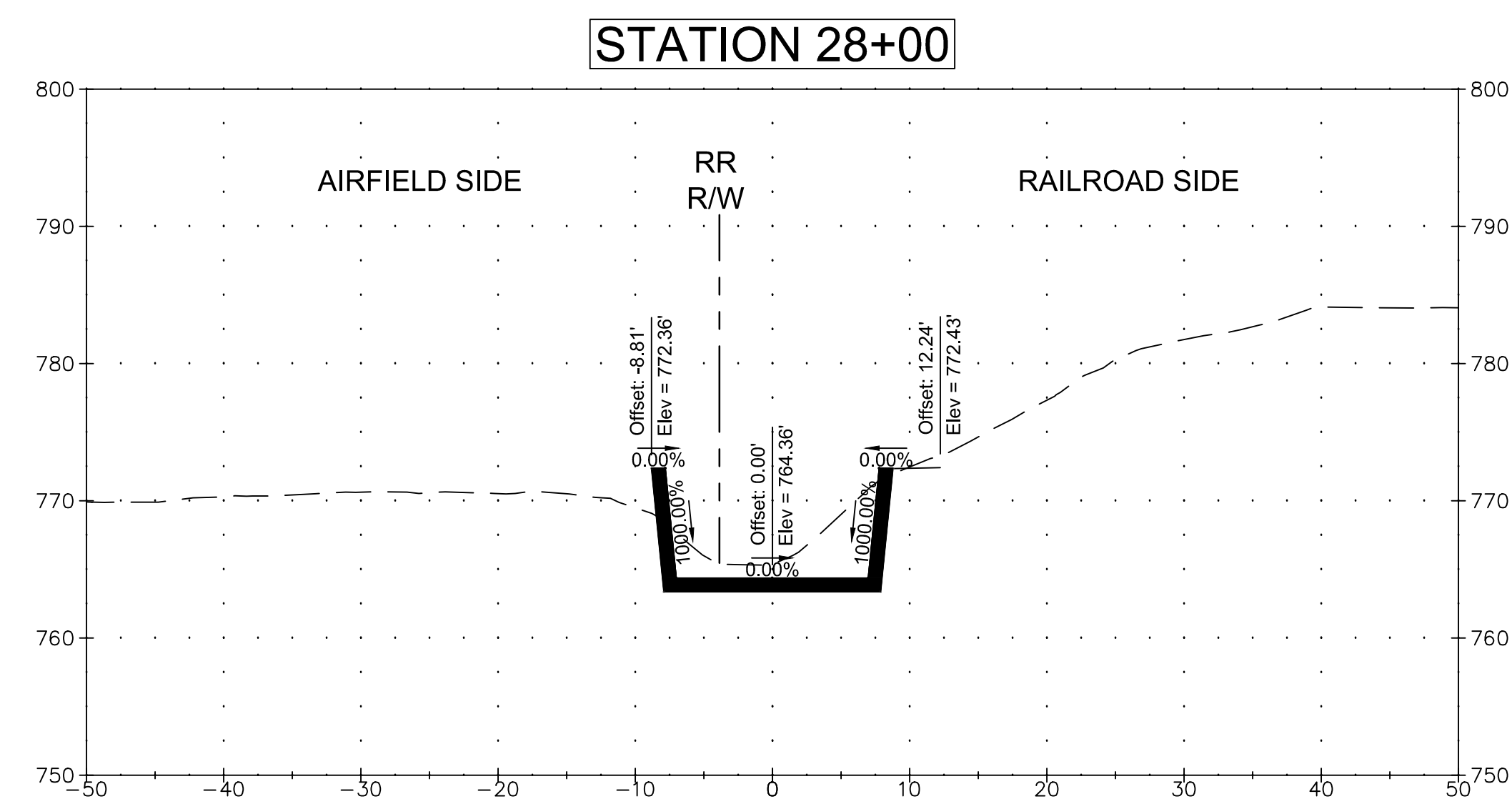
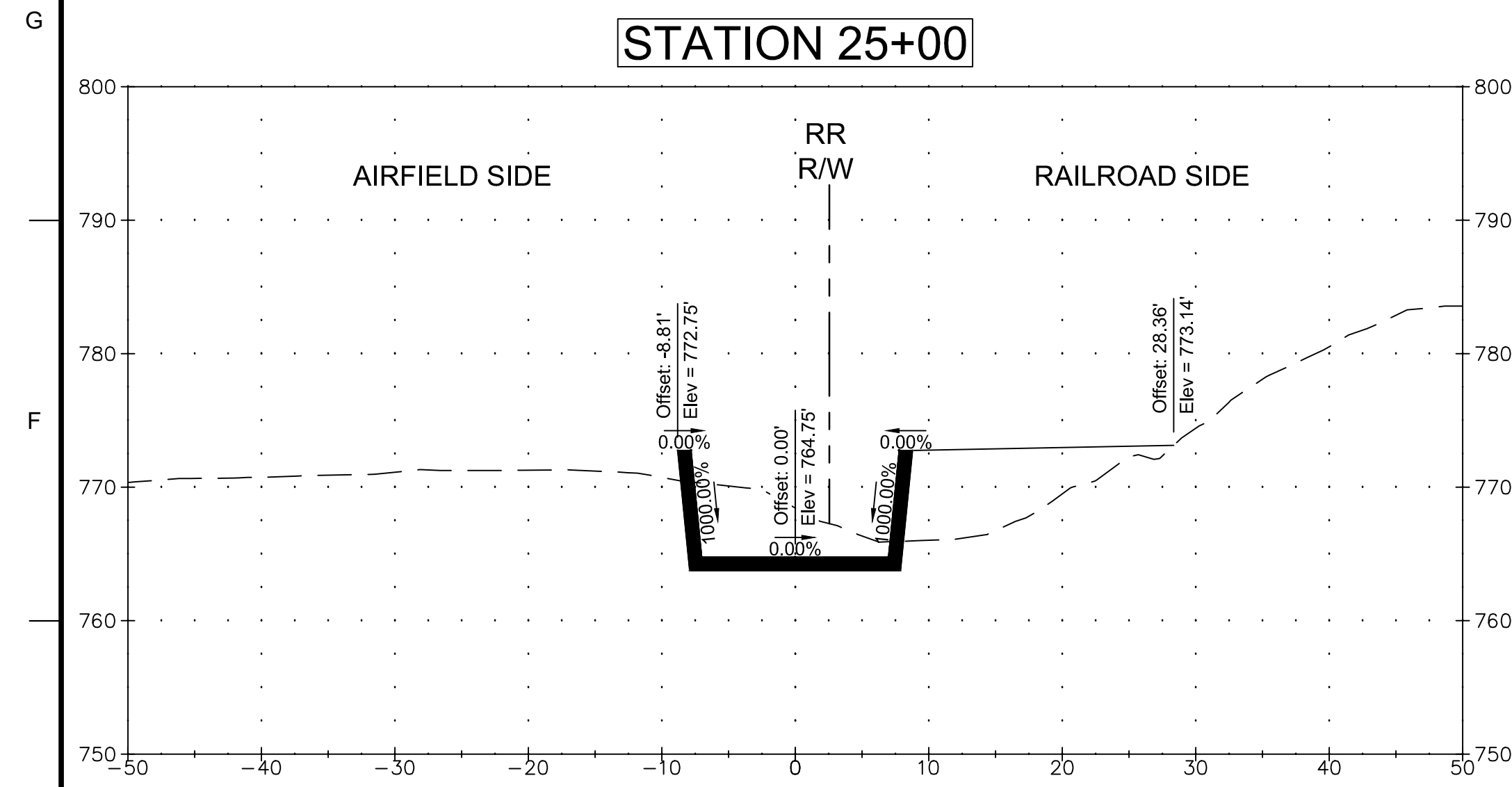
[illegible]

 Geo	 Stanley Consultants inc.	DRAWN BY:		SOLICITATION NO.:
		CHECKED BY:		W912DO20R4021
KANSAS CITY, MO 64106		SUBMITTED BY:		CONTRACT NO.:
		SIZE:		TBD
		ANS/D		

QUARRY CREEK CHANNEL CROSS SECTIONS
STA. 17+00 TO STA. 22+00

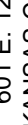
SHEET ID

CG332



**U.S. Army Corps
Engineers®**

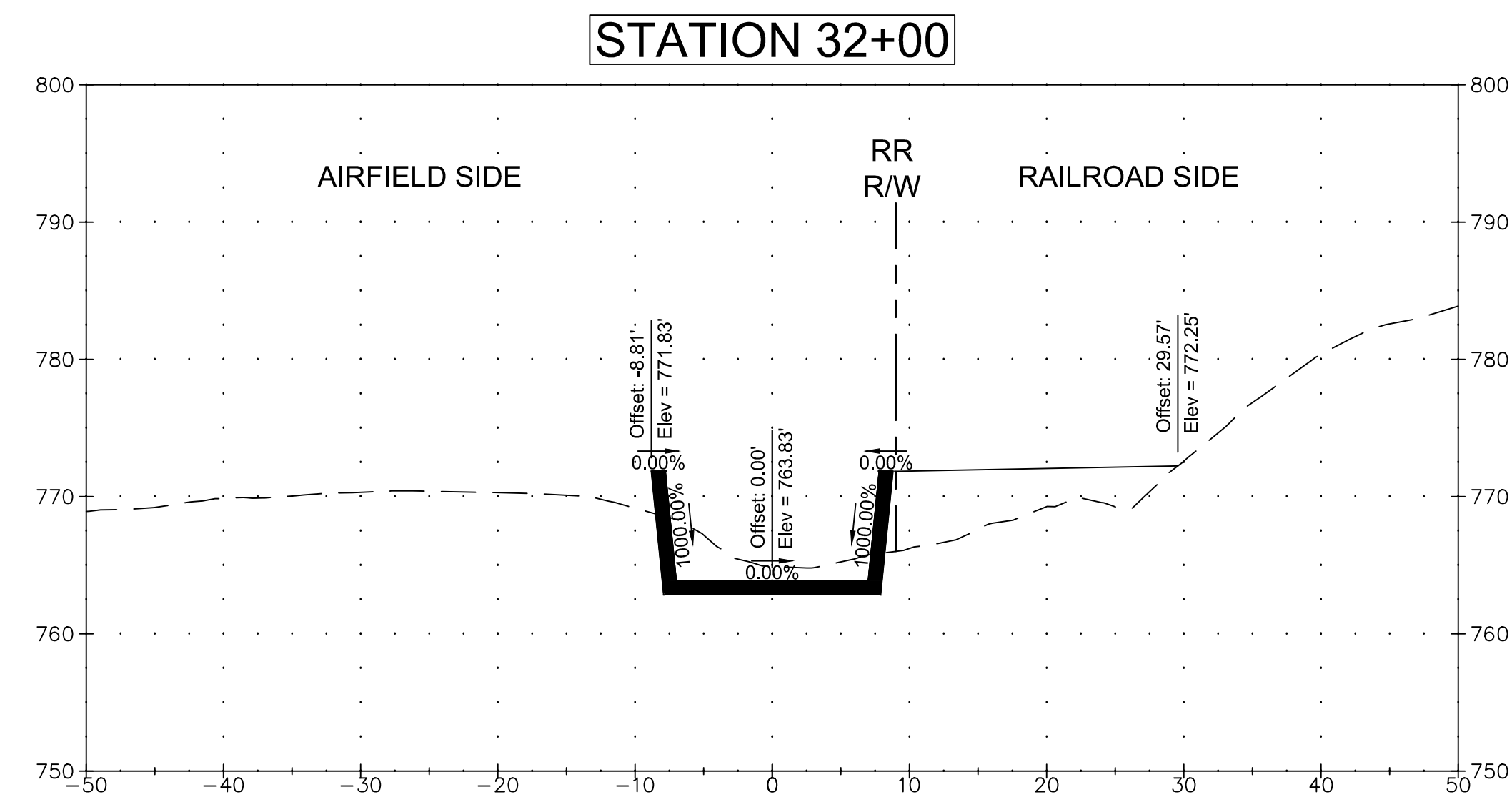
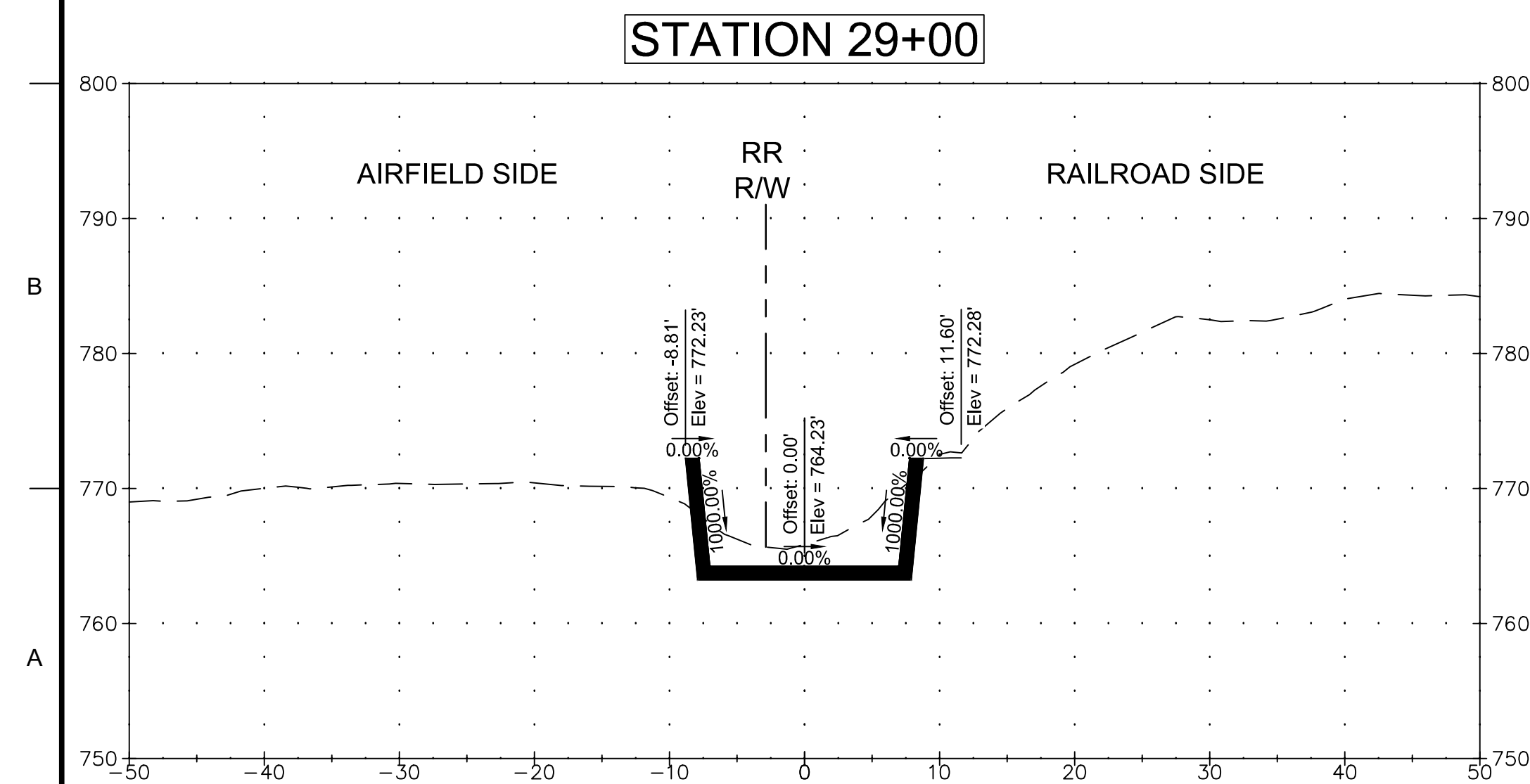
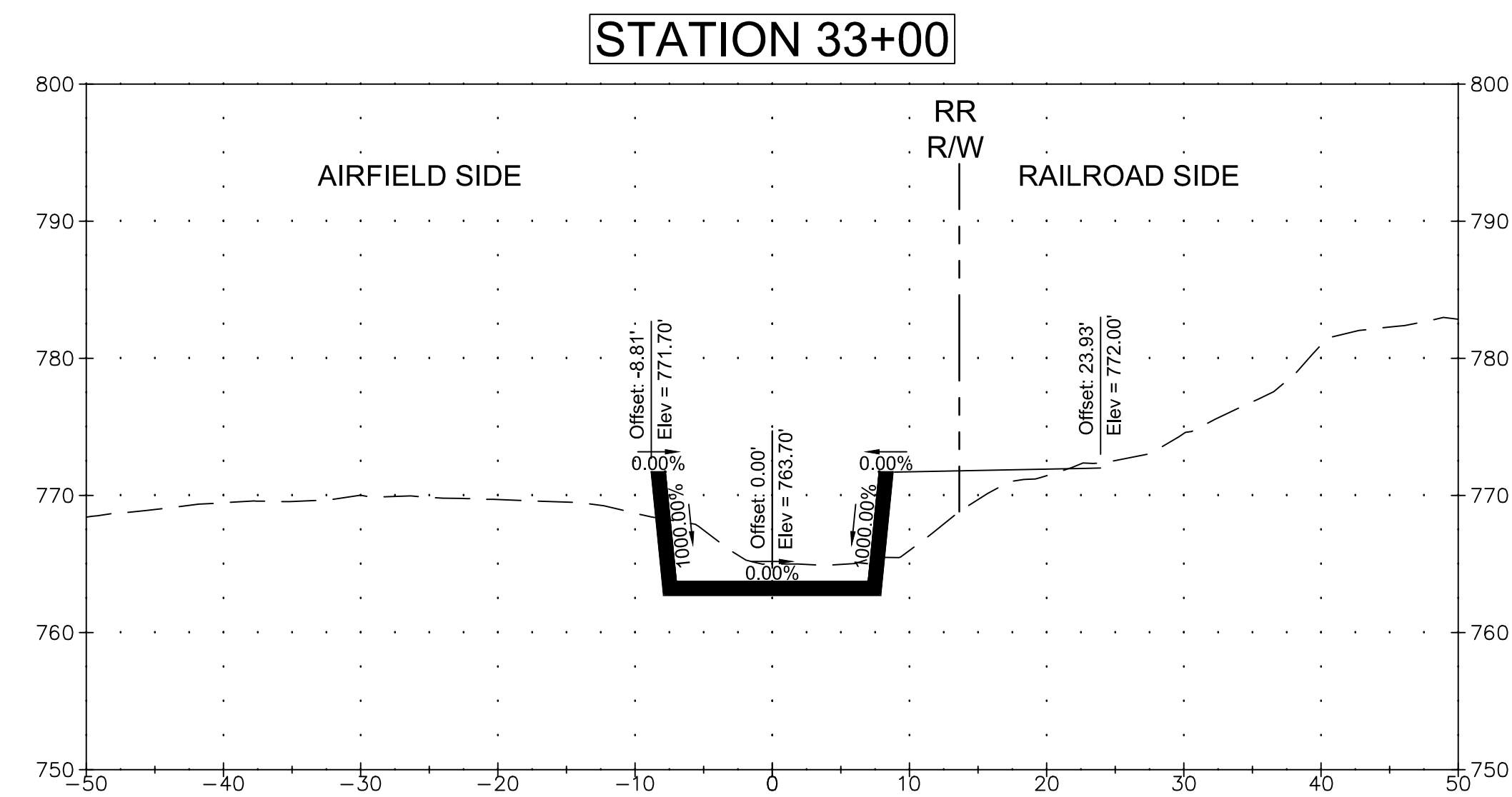
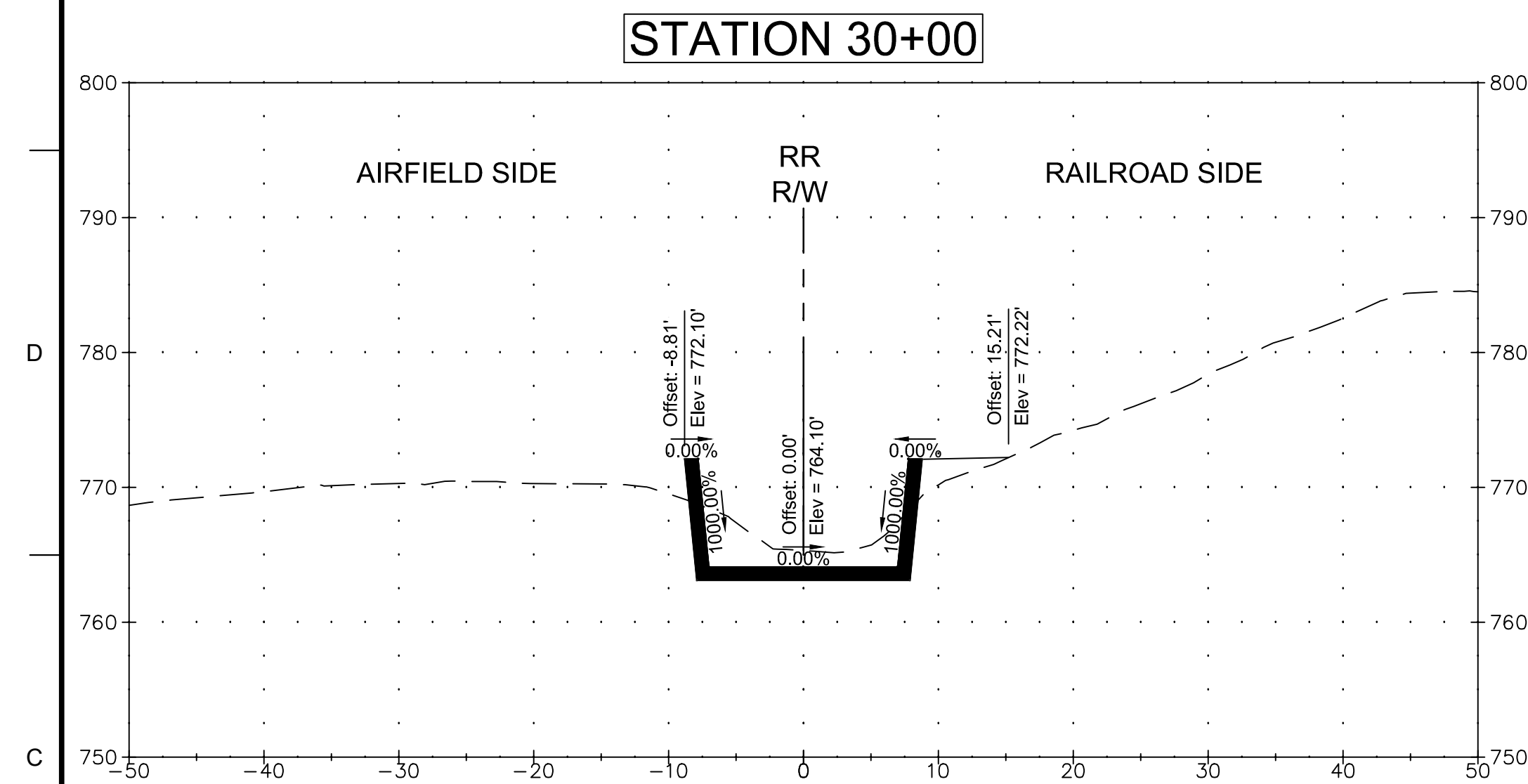
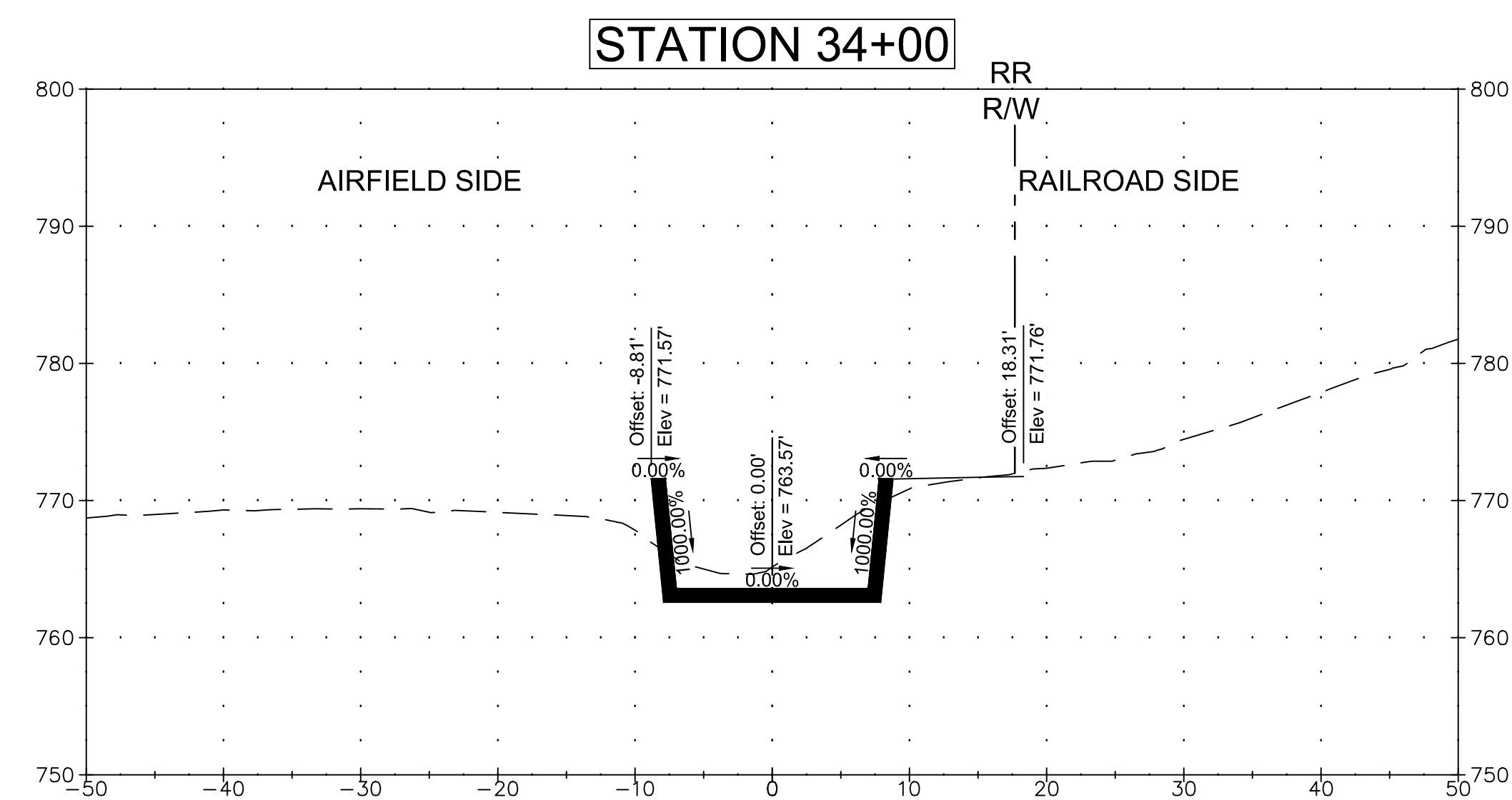
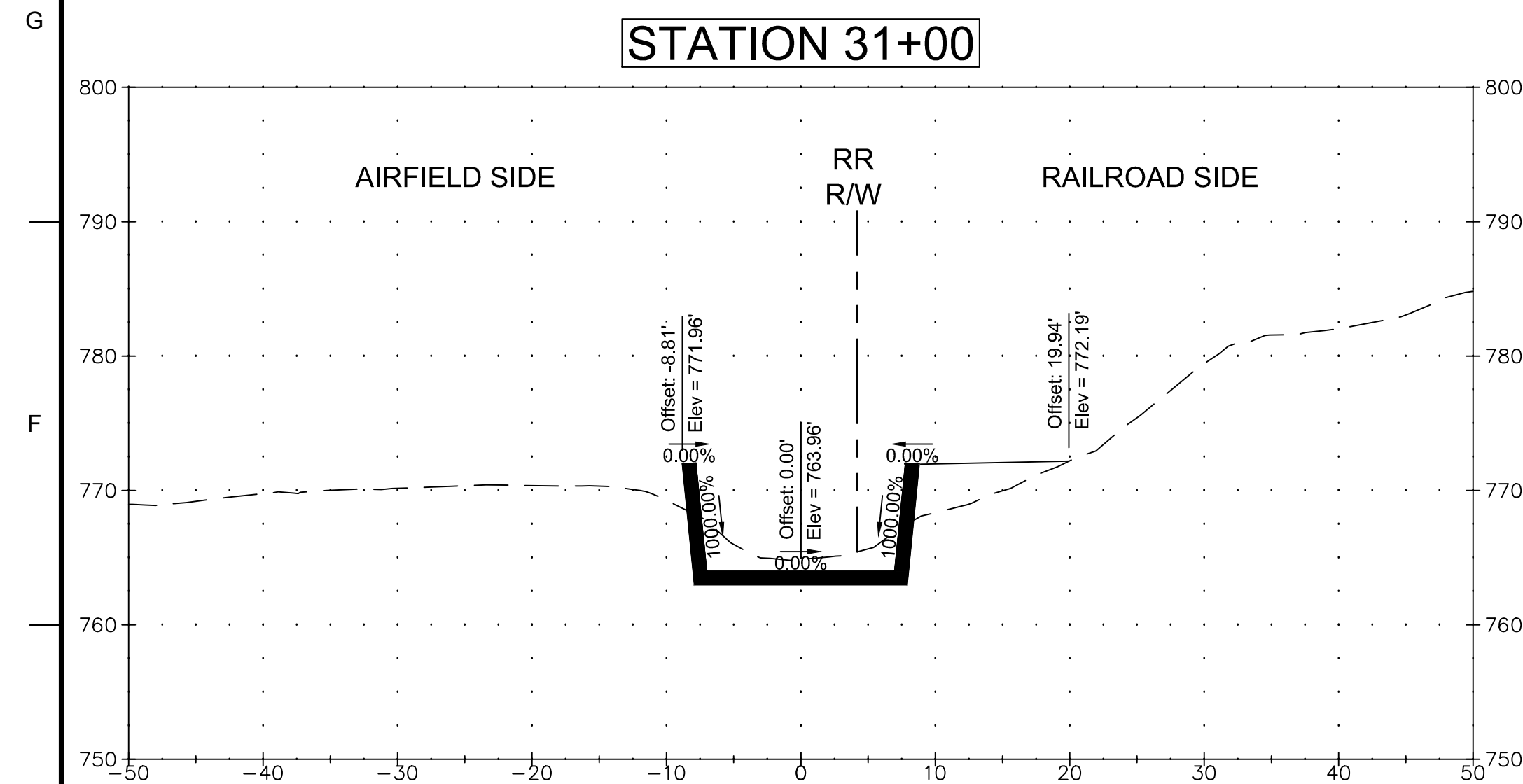
[illegible]

 Stanley Consultants inc. GEO – Stanley North America 1	DRAWN BY:		SOLICITATION NO.: W912D020R4021
	CHECKED BY:		CONTRACT NO.: TBD
	SUBMITTED BY:		
	SIZE:	ANSI D	
KANSAS CITY, MO 64106 601 E. 12TH STREET 14TH FLOOR			

QUARRY CREEK CHANNEL CROSS SECTIONS
STA. 23+00 TO STA. 28+00

SHEET ID

CG333



**U.S. Army Corps
Engineers®**

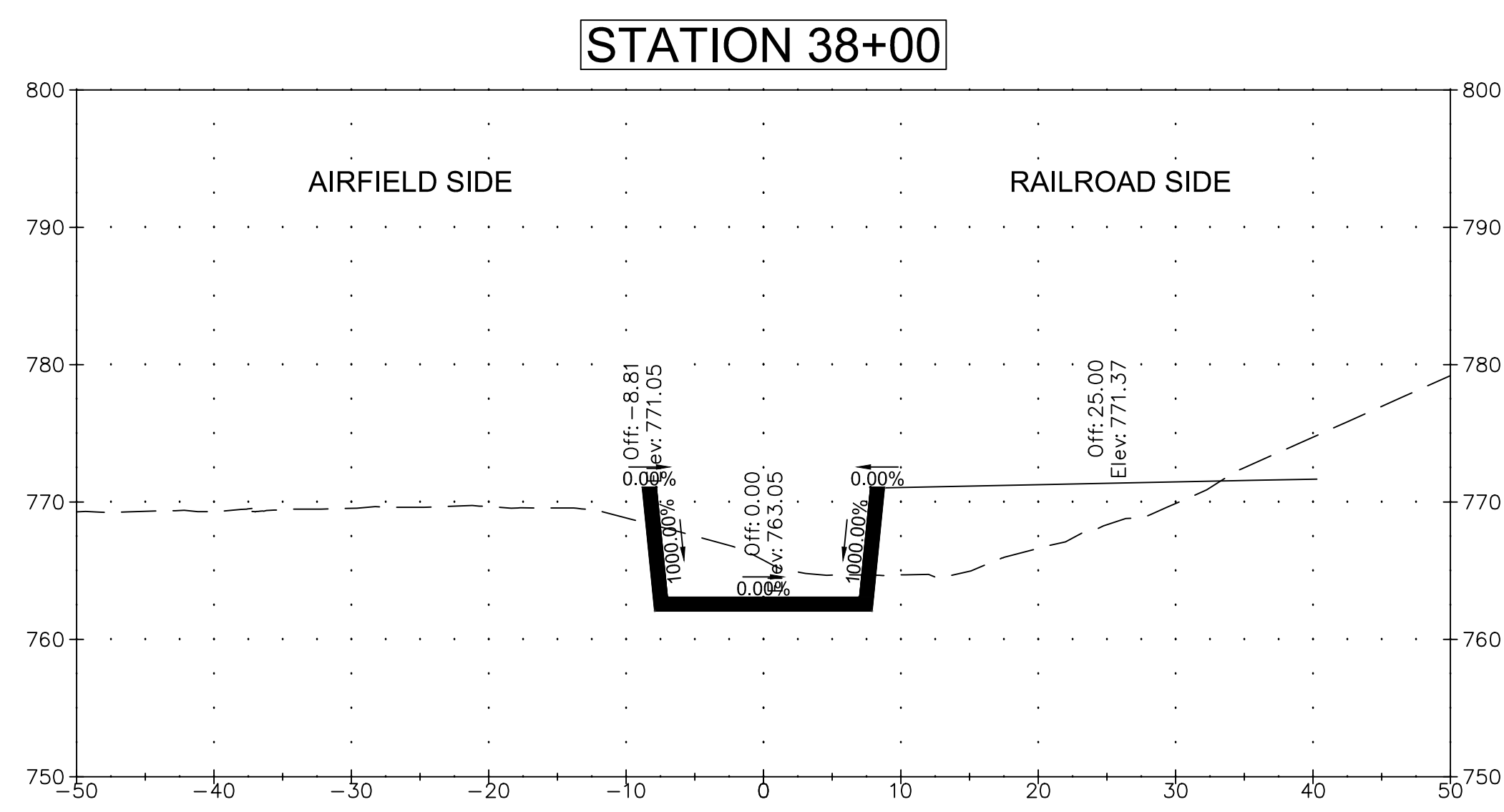
[illegible]

 Stanley Consultants inc.	DRAWN BY:		SOLICITATION NO.: W91ZD02R4021
	CHECKED BY:		CONTRACT NO.: TBD
SUBMITTED BY:		SIZE:	ANS I D

QUARRY CREEK CHANNEL CROSS SECTIONS
STA. 29+00 TO STA. 34+00

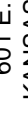
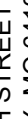
SHEET ID

CG334



SHEET ID
CG335

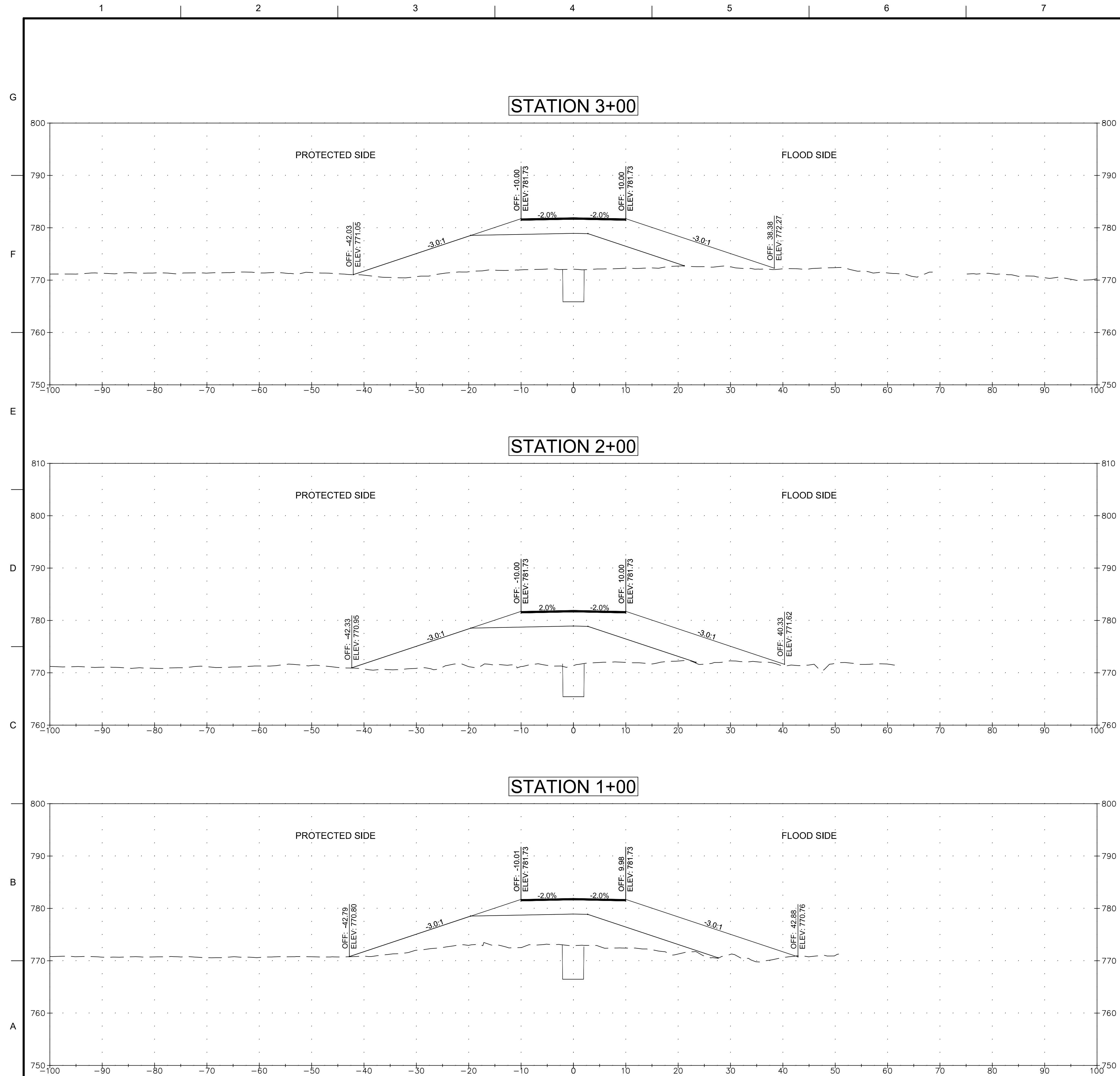
[illegible]

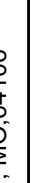
 		DRAWN BY: 601 E. 12TH STREET KANSAS CITY, MO 64106		SOLICITATION NO.: W91Z00Z0940021	
		CHECKED BY: TBD		CONTRACT NO.: TBD	
		SUBMITTED BY:			
		SIZE: ANS/D			

FORT LEAVENWORTH, KS

QUARRY CREEK CHANNEL CROSS SECTIONS
STA. 41+00 TO STA. 42+00

SHEET ID
CG336

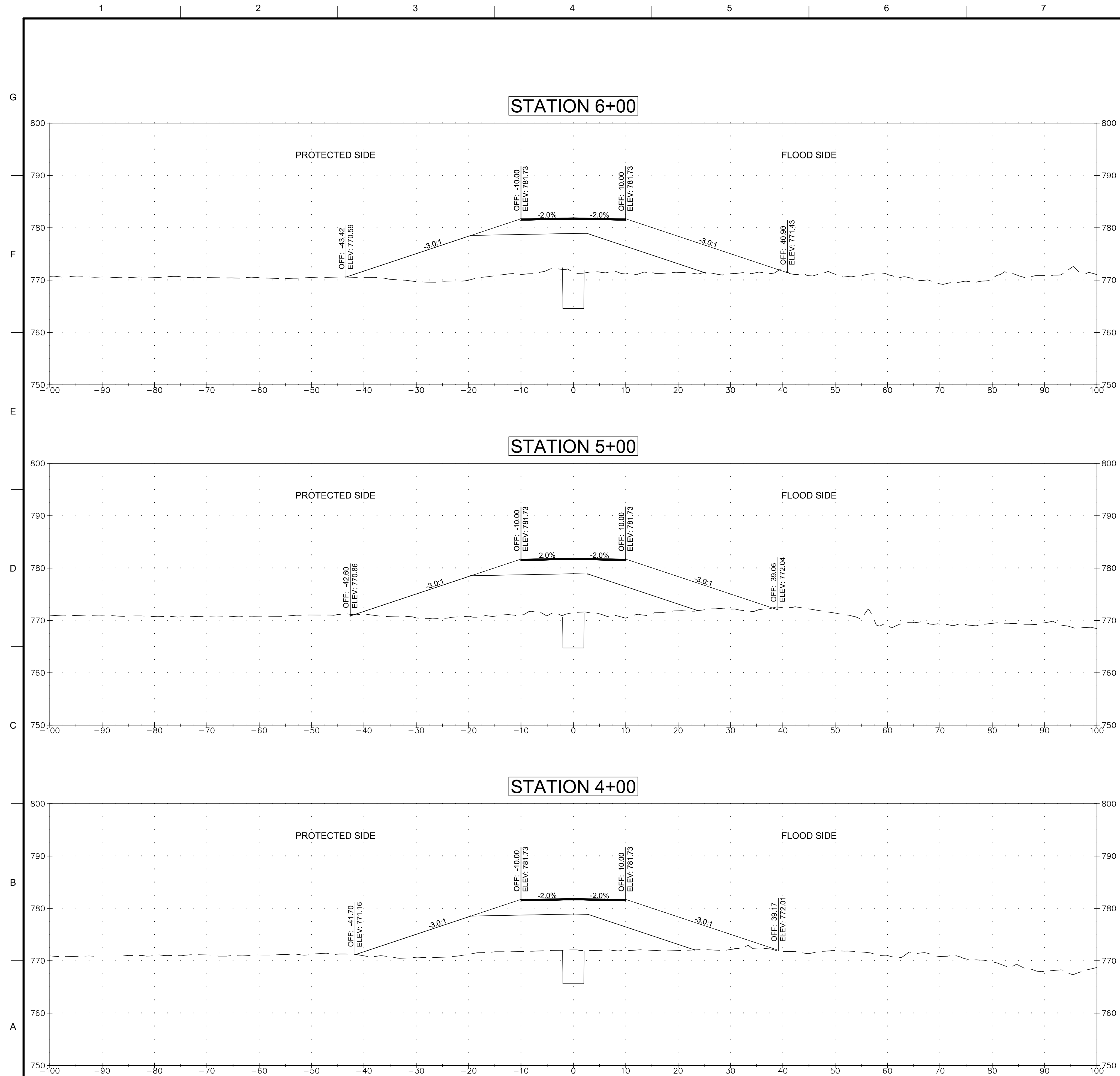
[illegible]

U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 601 E. 12TH STREET KANSAS CITY, MO 64108	 Stanley Consultants INC.	DESIGNED BY:		DATE:
		DRAWN BY:		07/24/02
		CHECKED BY:		SOLTATION NO.:
		SUBMITTED BY:		W912DQ2R04021
		SIZE:		CONTRACT NO.:
		ANSI D		TBD

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

CROSS SECTIONS - NORTH ROAD LEVEE

CG34



**U.S. Army Corps
Engineers®**

[illegible]

SIZE: ANSI D	SUBMITTED BY:	CONTRACT NO.:	SOLICITATION NO.: W912DQ20F4021
		CHECKED BY:	
		TBD	

KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO, 64106

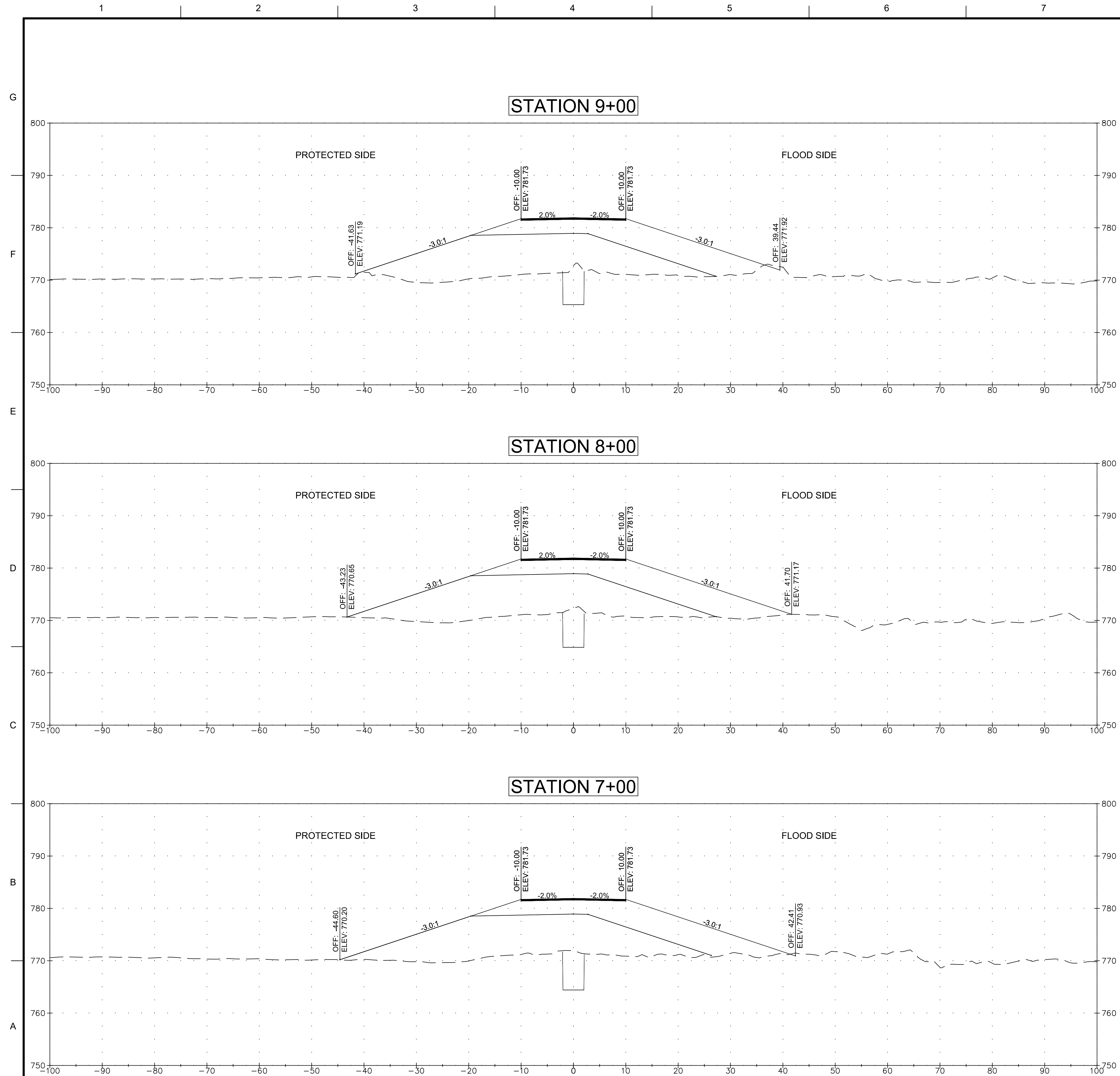
601 E. 12TH STREET
KANSAS CITY, MO, 64106



CROSS SECTIONS - NORTH ROAD LEVEE

HEET ID

CG342

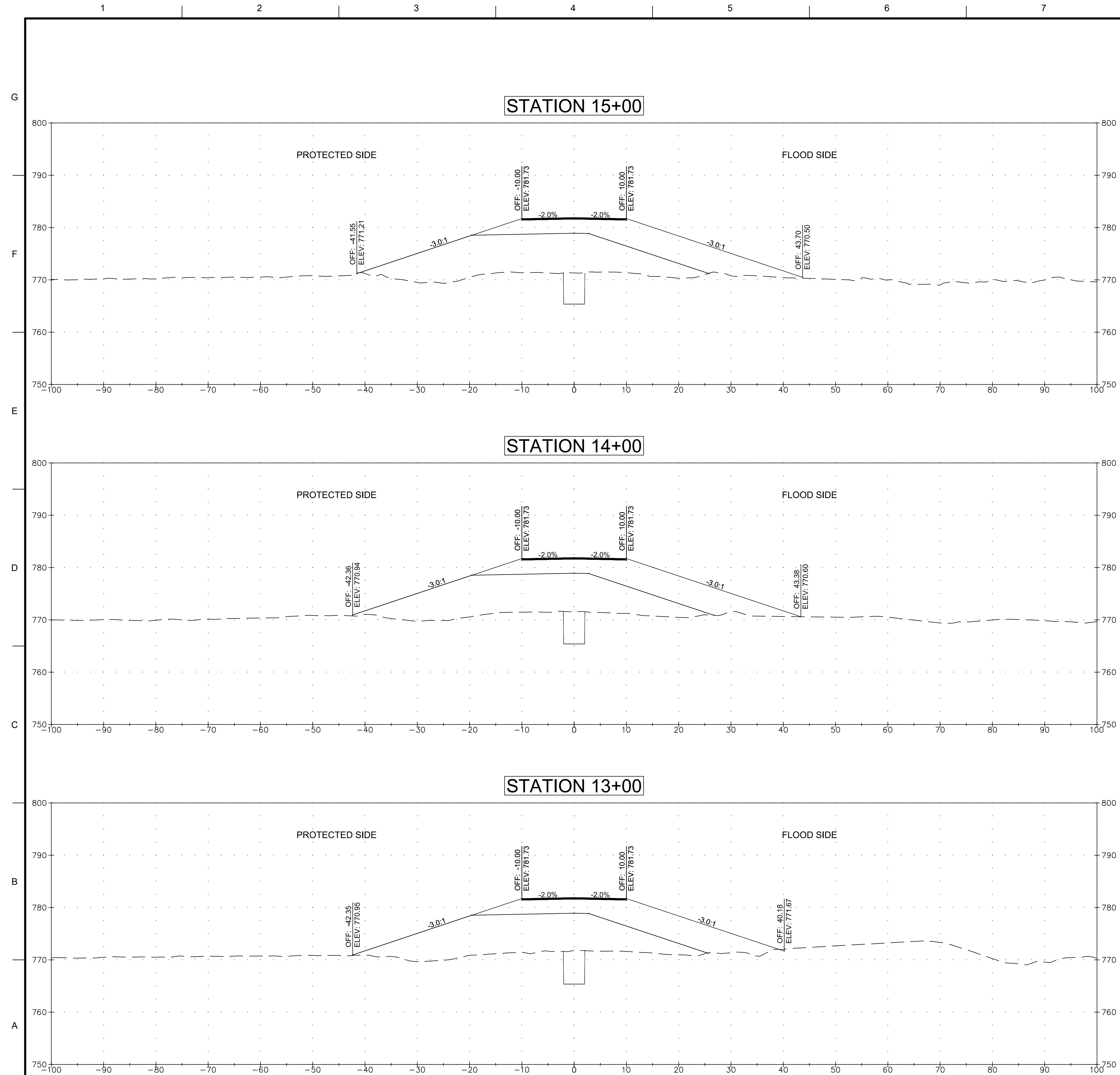
[illegible]

U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 601 E. 12TH STREET KANSAS CITY, MO 64108	 Stanley Consultants INC.	DESIGNED BY:		DATE: 07/24/02
		DRAWN BY:		SUBMITTAL NO.: W912DQ2R4021
		CHECKED BY:		CONTRACT NO.: TBD
		SUBMITTED BY:		
		SIZE:	ANSI: D	

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

CROSS SECTIONS - NORTH ROAD, LEVEE

SHEET ID
CG34



**U.S. Army Corps
Engineers®**

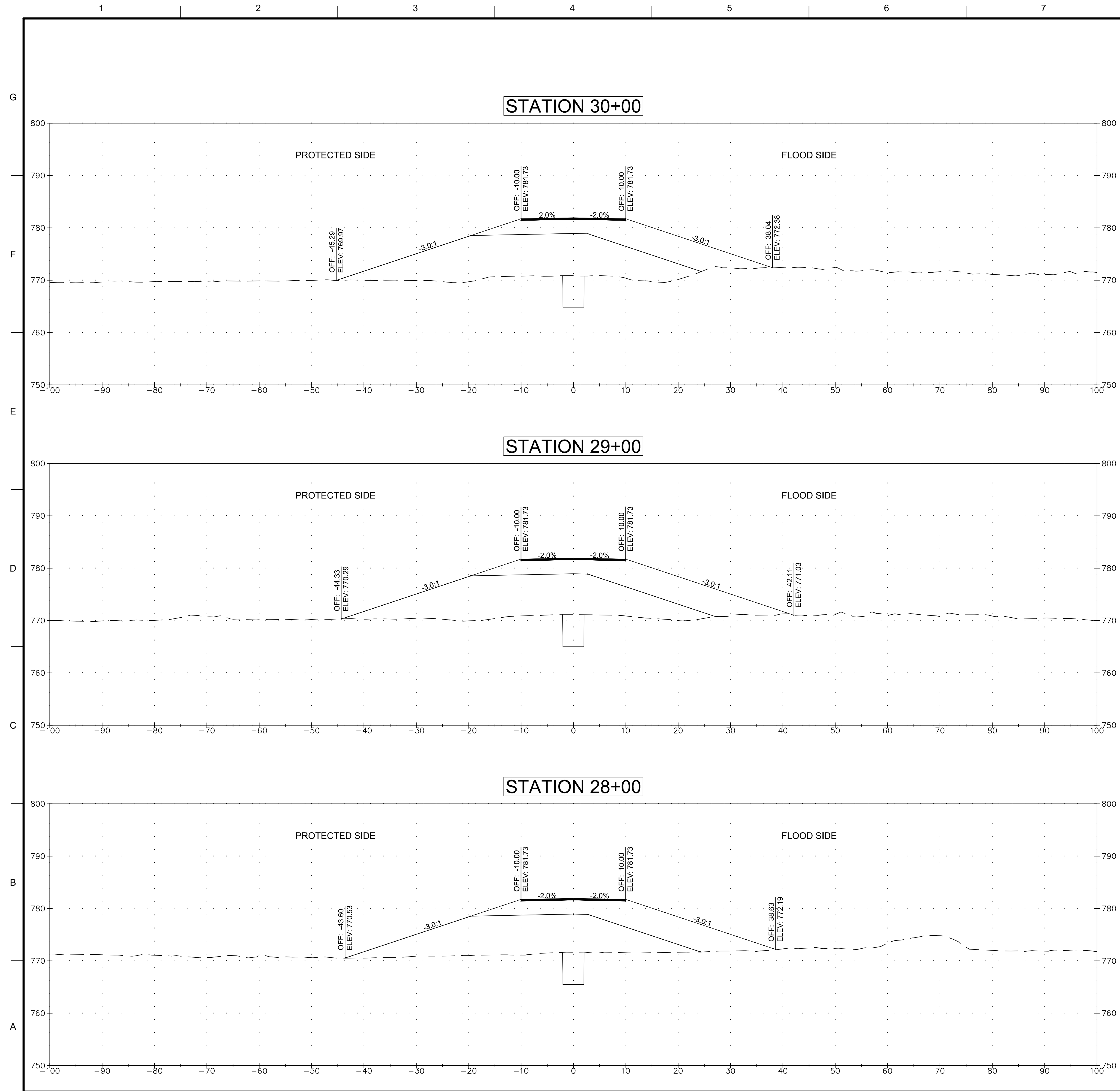
[illegible]

 Stanley Consultants INC.	DRAWN BY:		SOLICITATION NO.: W912DQ2DR0021
	CHECKED BY:		CONTRACT NO.: TBD
SUBMITTED BY:			
SIZE:		ANSI D	

CROSS SECTIONS - NORTH ROAD_LEVEE

SHEET ID

CG345



**U.S. Army Corps
Engineers®**

[illegible]

DRAWN BY:		SOLICITATION NO.: W912DQ20R4021
CHECKED BY:		CONTRACT NO.: TBD
SUBMITTED BY:		
SIZE:		
ANSI/D		

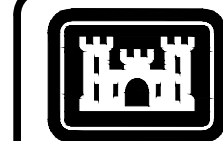
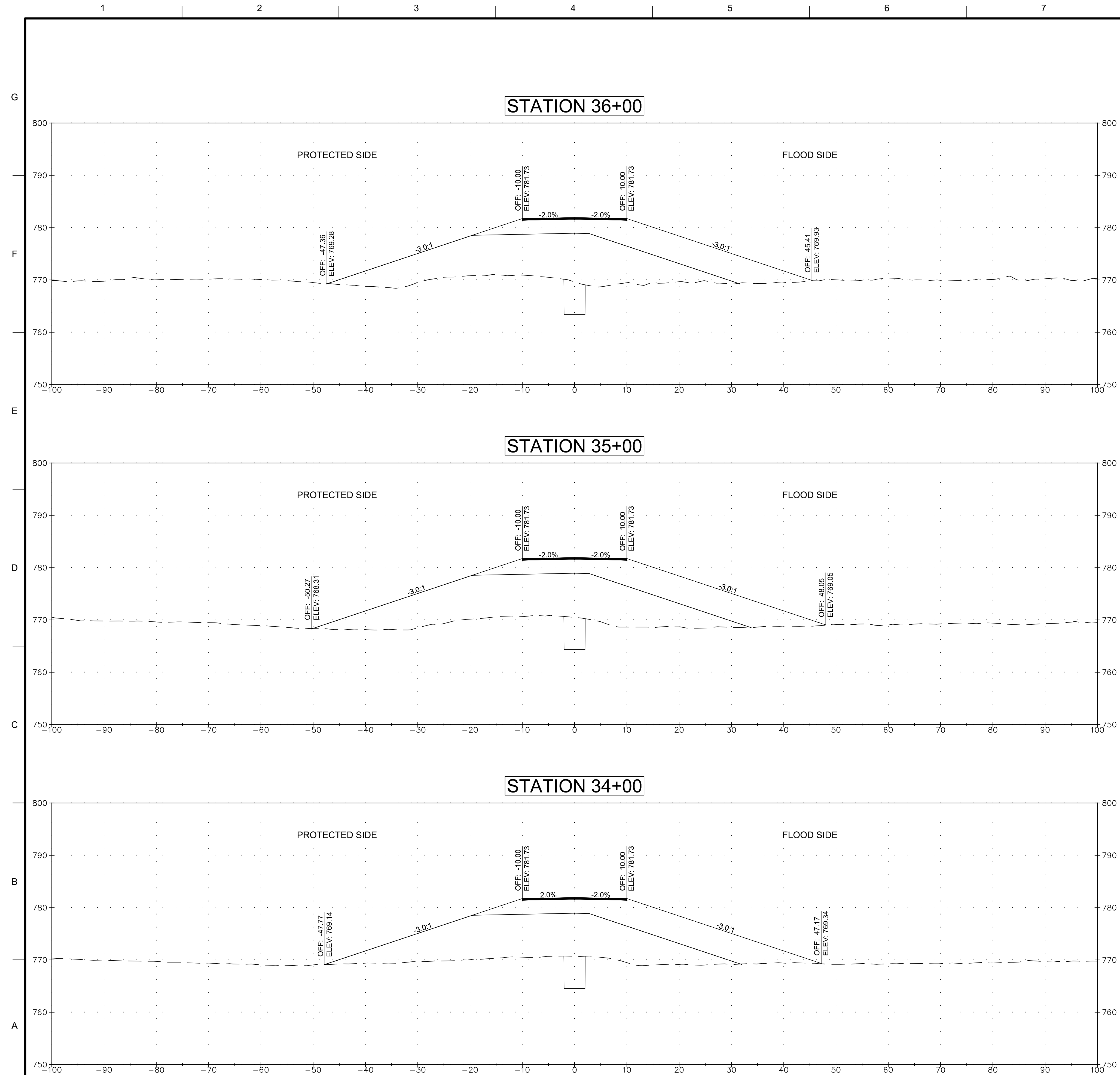
601 E. 12TH STREET
KANSAS CITY, MO, 64106



CROSS SECTIONS - NORTH ROAD_LEVEE

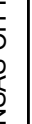
SHEET ID

CG350



**US Army Corps
of Engineers®**

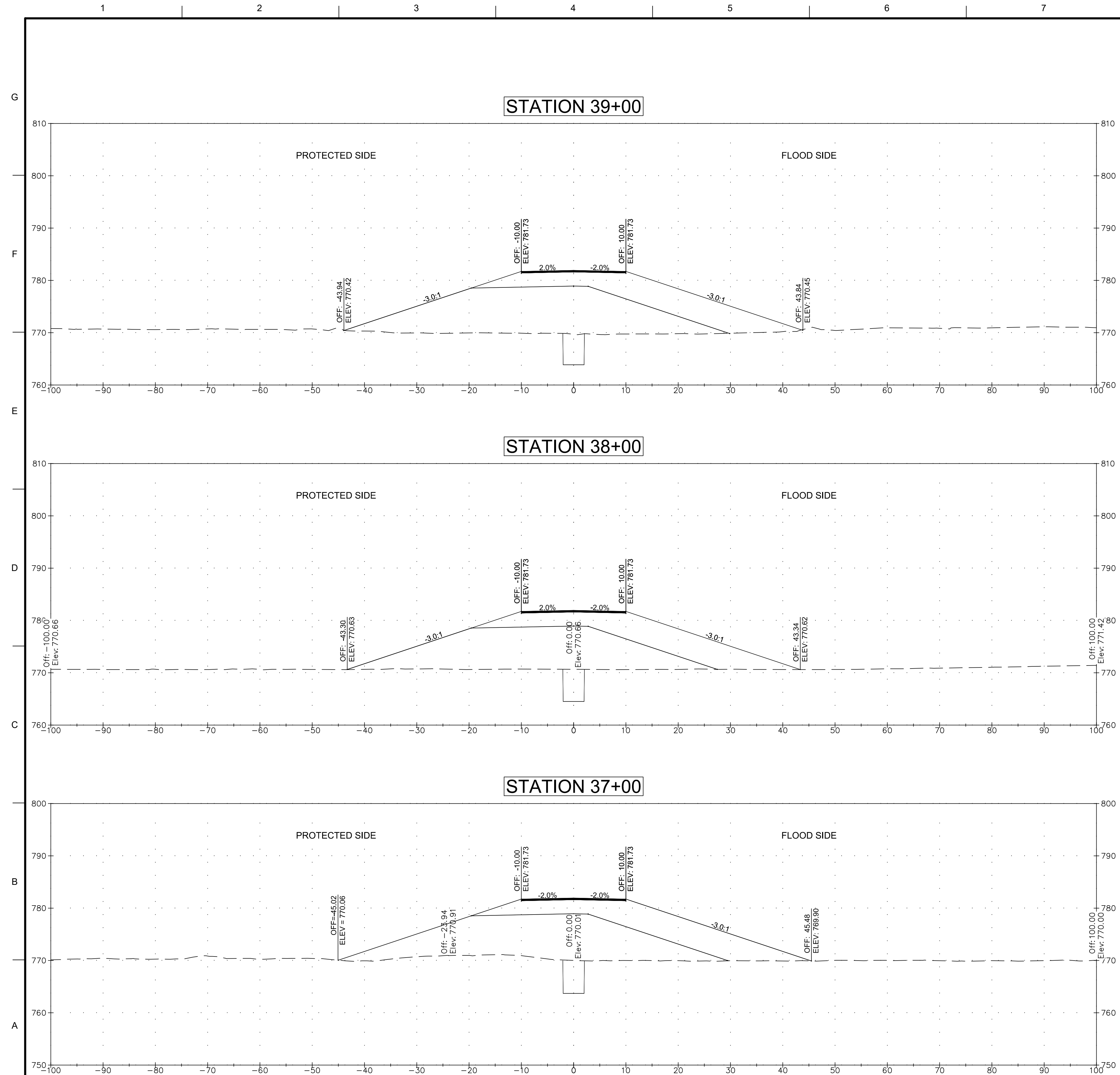
[illegible]

 Stanley Consultants inc. 	U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 801 E. 12TH STREET KANSAS CITY, MO 64106		DESIGNED BY: DTAF/AF	ISSUE DATE: 07/24/04
			DRAWN BY:	DRAWING NO.: W91ZDD20R4021
			CHECKED BY:	CONTRACT NO.: TBD
			SUBMITTED BY:	
		SIZE:	ANSI/D	
GEO - Stanley North America 1				

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

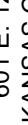
CROSS SECTIONS - NORTH ROAD LEVEE

SHEET ID
CG352



**U.S. Army Corps
Engineers®**

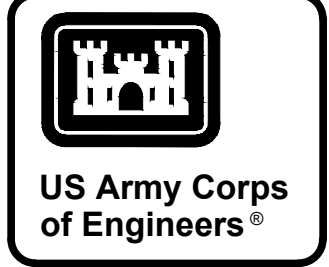
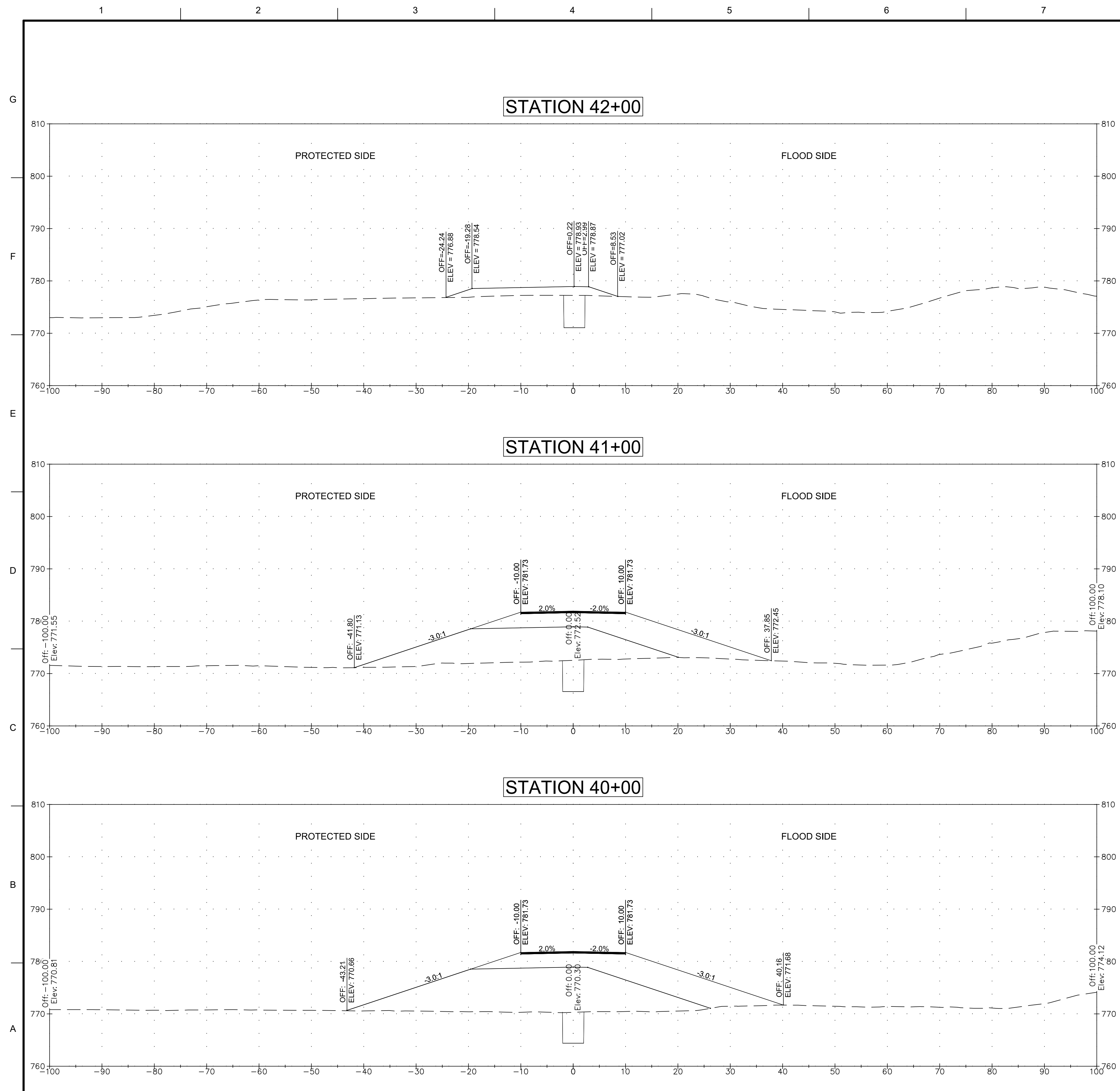
[illegible]

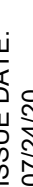
 Stanley Consultants INC.	DRAWN BY: _____ CHECKED BY: _____ SUBMITTED BY: _____		SOLICITATION NO.: W912DQ20R4021 CONTRACT NO.: TBD
	SIZE: _____ ANSI D: _____		

CROSS SECTIONS - NORTH ROAD_LEVEE

SHEET ID

CG353

[illegible]

 Stanley Consultants INC.	U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 601 E. 12TH STREET KANSAS CITY, MO 64108		DESIGNED BY:	ISSUE DATE: 07/24/20
			DRAWN BY:	SOLICITATION NO.: W912DQ230R4021
			CHECKED BY:	CONTRACT NO.: TBD
			SUBMITTED BY:	
		SIZE:	ANSI D	

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

CROSS SECTIONS - NORTH ROAD_LEVEE

A

B

C

D

E

F

G

ALIGNMENT: CHANNEL 1							
NUMBER	STATION	DELTA	LENGTH	RADIUS	NORTHING	EASTING	LINE/CHORD DIRECTION
L300	0+00.00		697.18'		393573.55	2183013.31	S49° 15' 24.99"E
L301	6+97.18		290.70'		393118.53	2183541.52	S30° 14' 29.98"E
L302	9+87.87		93.94'		392867.39	2183687.93	S24° 18' 05.81"E

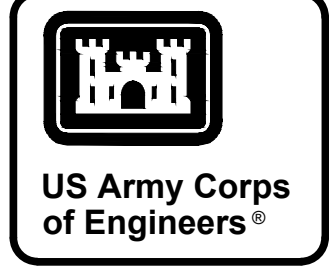
ALIGNMENT: CHANNEL 2							
NUMBER	STATION	DELTA	LENGTH	RADIUS	NORTHING	EASTING	LINE/CHORD DIRECTION
L303	0+00.00		877.12'		392780.99	2183726.95	S23° 17' 19.07"E

ALIGNMENT: CHANNEL 3							
NUMBER	STATION	DELTA	LENGTH	RADIUS	NORTHING	EASTING	LINE/CHORD DIRECTION
L304	0+00.00		687.20'		391966.21	2184078.20	S25° 18' 39.91"E
L305	6+87.20		669.85'		391344.98	2184372.00	S20° 57' 14.80"E

ALIGNMENT: CHANNEL 4							
NUMBER	STATION	DELTA	LENGTH	RADIUS	NORTHING	EASTING	LINE/CHORD DIRECTION
L308	0+00.00		35.56'		390701.75	2184618.95	S20° 51' 22.17"E
C300	0+35.56	1° 30' 50"	0.32'	12.00'	390668.53	2184631.61	S20° 05' 57.83"E
L310	0+35.87		120.69'		390668.23	2184631.72	S19° 20' 33.50"E
C301	1+56.56	17° 02' 50"	87.48'	294.00'	390554.35	2184671.69	S10° 49' 06.07"E
L311	2+44.04		412.37'		390468.74	2184688.05	S02° 17' 38.64"E
C302	6+56.41	23° 55' 40"	359.15'	860.00'	390056.71	2184704.56	S14° 15' 28.09"E
L312	10+15.55		706.42'		389711.15	2184792.37	S26° 13' 17.54"E
L306	17+21.98		165.36'		389077.42	2185104.50	S30° 26' 48.74"E
C303	18+87.34	32° 04' 00"	279.84'	500.00'	388934.86	2185188.30	S46° 28' 49.79"E
L307	21+67.18		49.89'		388744.67	2185388.58	S62° 30' 50.84"E
L309	22+17.07		298.17'		388721.64	2185432.84	S62° 14' 52.87"E

ALIGNMENT: CHANNEL 5							
NUMBER	STATION	DELTA	LENGTH	RADIUS	NORTHING	EASTING	LINE/CHORD DIRECTION
L313	0+00.00		29.07'		388582.80	2185696.72	S60° 45' 17.03"E
C304	0+29.07	26° 29' 50"	32.84'	71.00'	388568.60	2185722.08	S47° 30' 21.08"E
L314	0+61.91		33.51'		388546.61	2185746.08	S34° 15' 25.13"E
L315	0+95.42		302.34'		388518.91	2185764.94	S36° 40' 51.49"E
L316	3+97.76		74.01'		388276.45	2185945.55	S38° 45' 04.77"E
L317	4+71.76		96.52'		388218.73	2185991.87	S35° 22' 02.45"E
L318	5+68.29		38.72'		388140.02	2186047.74	S29° 19' 42.36"E
C306	6+07.01	19° 53' 40"	29.86'	86.00'	388106.26	2186066.71	S39° 16' 30.25"E
L319	6+36.87		13.92'		388083.26	2186085.51	S49° 13' 18.14"E
C305	6+50.79	87° 03' 40"	57.74'	38.00'	388074.17	2186096.06	S05° 41' 29.38"E
L339	18+28.47		64.19'		387069.03	2185520.09	S29° 19' 48.31"W
L342	20+60.73		23.41'		386961.51	2185337.62	S33° 33' 20.10"W

ALIGNMENT: CHANNEL 6							
NUMBER	STATION	DELTA	LENGTH	RADIUS	NORTHING	EASTING	LINE/CHORD DIRECTION
L355	0+00.00		242.86'		393644.98	2184704.58	S25° 53' 30.55"E
L356	2+42.86		538.30'		393426.50	2184810.63	S25° 27' 59.75"E
L357	7+81.16		414.93'		392940.51	2185042.09	S28° 00' 33.95"E
L358	11+96.09		371.34'		392574.17	2185236.95	S34° 08' 32.90"E
L359	15+67.44		446.93'		392266.83	2185445.37	S28° 45' 59.12"E
C307	20+14.37	8° 37' 30"	150.53'	1000.00'	391875.05	2185660.45	S33° 04' 43.80"E
L360	21+64.90		408.75'		391749.04	2185742.54	S37° 23' 28.48"E
C308	25+73.65	17° 35' 50"	307.11'	1000.00'	391424.29	2185990.75	S46° 11' 21.77"E
L361	28+80.76		248.79'		391212.52	2186211.50	S54° 59' 15.06"E
C309	31+29.56	6° 51' 50"	59.89'	500.00'	391069.77	2186415.27	S51° 33' 21.15"E
L362	31+89.45		375.69'		391032.55	2186462.15	S48° 07' 27.25"E
C310	35+65.14	8° 24' 20"	146.71'	1000.00'	390781.77	2186741.89	S43° 55' 16.47"E
L363	37+11.85		258.57'		390676.19	2186843.56	S39° 43' 05.70"E
L366	39+70.42		792.82'		390477.30	2187008.79	S38° 33' 43.48"E
L364	47+63.23		218.87'		389857.37	2187503.00	S43° 27' 18.43"E
L365	49+82.10		52.34'		389698.50	2187653.54	S45° 26' 25.10"E

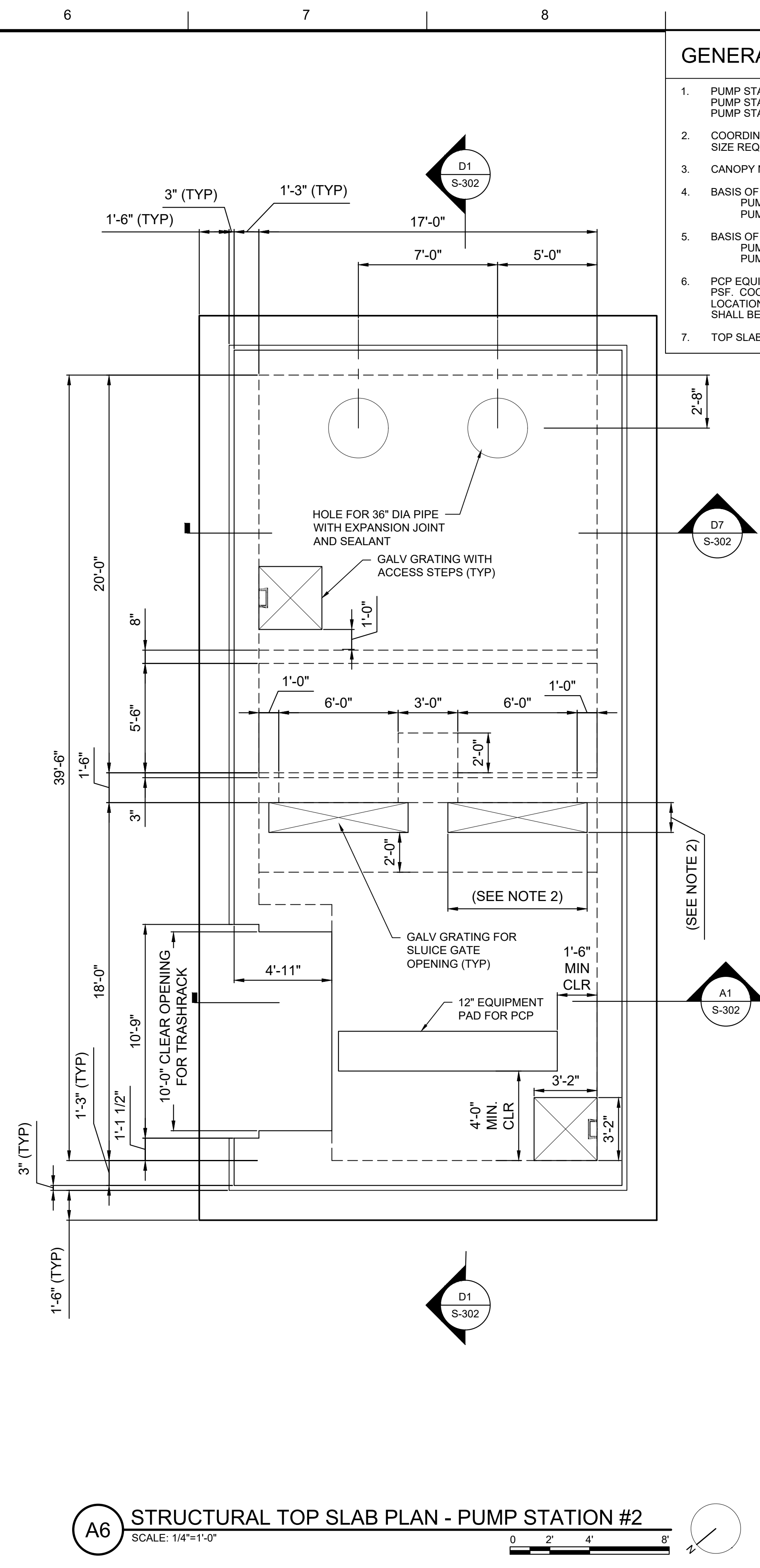
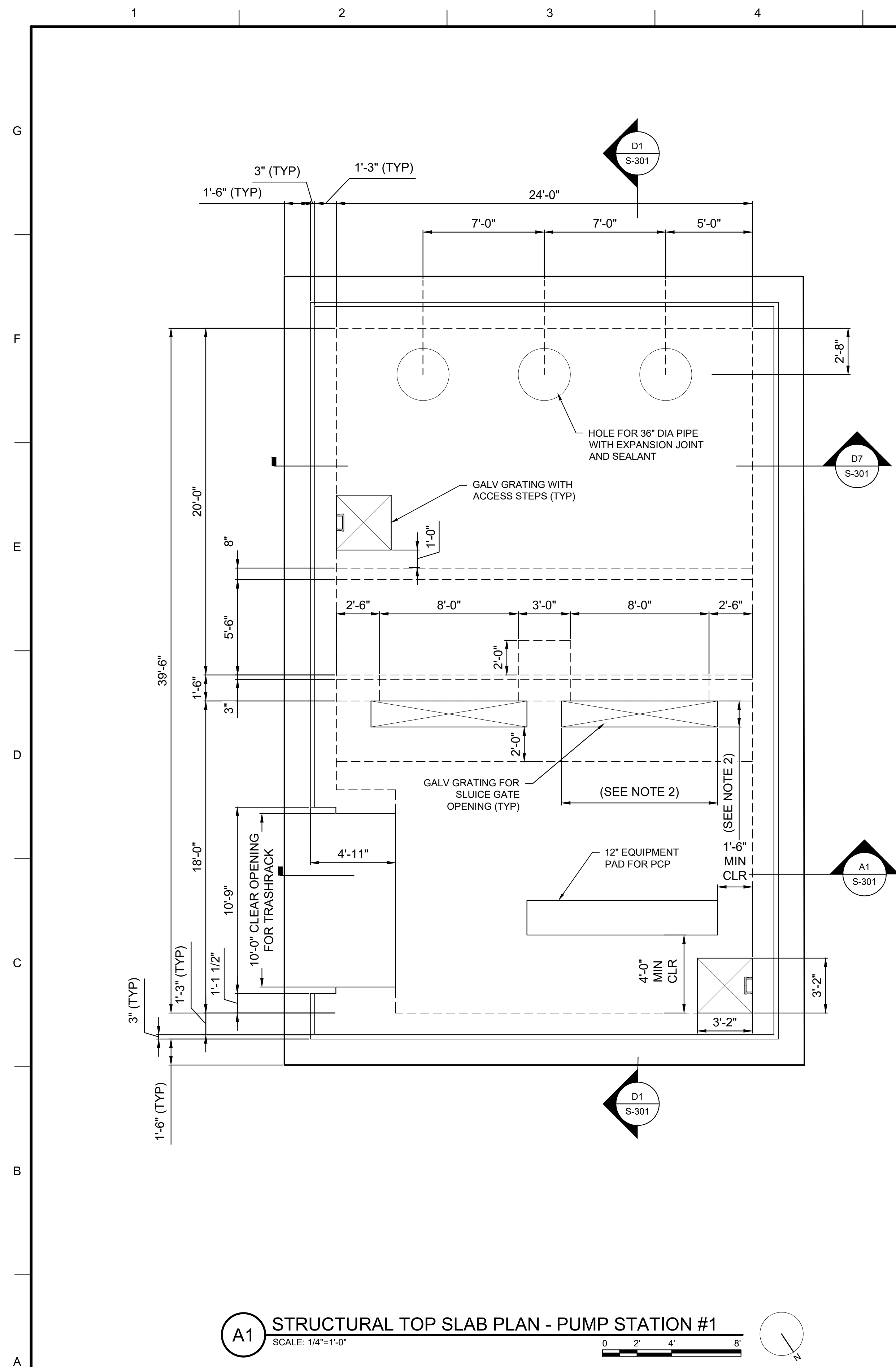


U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 601 E. 12TH STREET KANSAS CITY, MO 64106		DESIGNED BY: M. DUBERN		ISSUE DATE: 07/24/20	
		DRAWN BY: K. HOONE		SIGNATURE NO.: W912DQ220R4021	
		CHECKED BY: E. DALY		CONTRACT NO.: TBD	
		SUBMITTED BY: W. HOLMAN			
		SIZE: ANSI D			

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

CHANNEL ALIGNMENT TABLES

SHEET ID
C-602



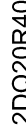
- GENERAL SHEET NOTES:

1. PUMP STATION TOP OF CONCRETE ELEVATION:
PUMP STATION #1 = 780.40
PUMP STATION #2 = 781.00
2. COORDINATE WITH SLUICE GATE MANUFACTURER FOR EXACT OPENING SIZE REQUIRED FOR GATE REMOVAL.
3. CANOPY NOT SHOWN FOR CLARITY. SEE SHEET S-106 FOR CANOPY PLAN.
4. BASIS OF DESIGN WEIGHT OF SLUICE GATE:
PUMP STATION #1 (48"x96" GATE): 2250 LBS
PUMP STATION #2 (48"x72" GATE): 1250 LBS
5. BASIS OF DESIGN WEIGHT OF PUMP CONTROL PANEL (PCP):
PUMP STATION #1: 6000 LBS
PUMP STATION #2: 5200 LBS
6. PCP EQUIPMENT WEIGHT SHALL BE LIMITED TO A UNIFORM LOAD OF 150 PSF. COORDINATE WITH RIGMENT PAD SIZE AND CONDUIT OPENING SIZES/ LOCATIONS WITH EQUIPMENT PROVIDED. PCP ANCHORAGE/MOUNTING SHALL BE PER PCP MANUFACTURER REQUIREMENTS.
7. TOP SLAB DESIGN LIVE LOAD: 150 PSF



**U.S. Army Corps
of Engineers®**

[illegible]

 Stanley Consultants inc.	DRAWN BY: _____ K. HODINE		SOLICITATION NO.: _____ W912DQ20R0421	
	CHECKED BY: _____ Y. DING		CONTRACT NO.: _____ TBD	
 Geo	SUBMITTED BY: _____ COLLIAN		SUBMITTED BY: _____ COLLIAN	
	STATE: _____ ANS/D.		STATE: _____ ANS/D.	

PORT LEAVENWORTH
FORT LEAVENWORTH, KS

**STRUCTURAL TOP SLAB PLAN
PUMP STATIONS #1 AND #2**

SHEET ID

S-103

[illegible]

DRAWN BY:	K. HODNE	SOLICITATION NO.:	W912DQ20R4021
CHECKED BY:	Y. DING	CONTRACT NO.:	TBD
SUBMITTED BY:	W. HOLMAN		
SIZE:			
ANSI D			

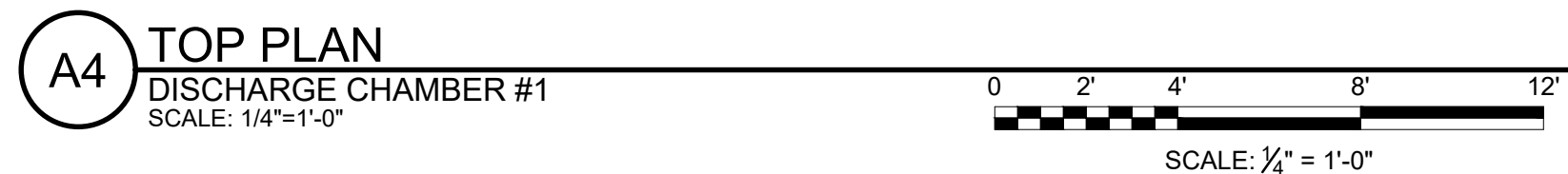
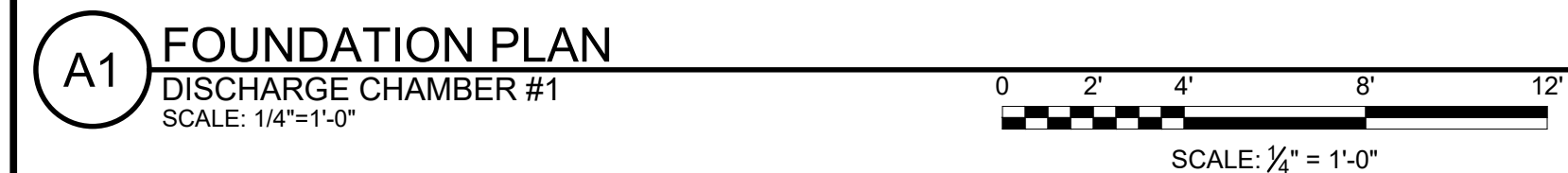
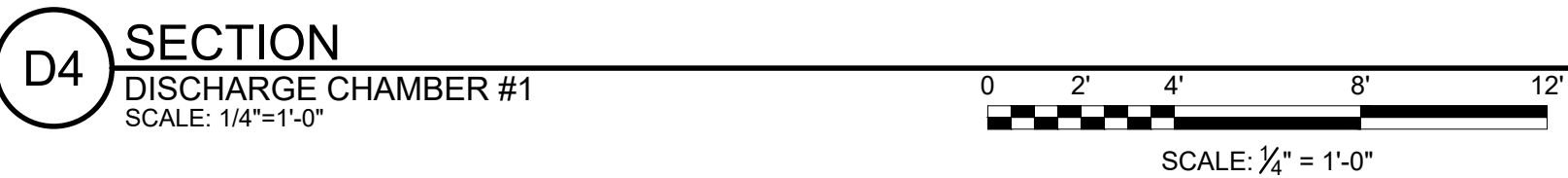
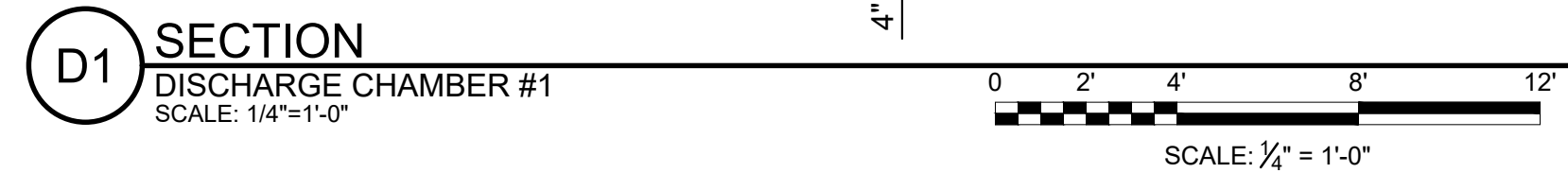
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO, 64106

FORT LEAVENWORTH
FORT LEAVENWORTH, KS

DISCHARGE CHAMBER #1

SHEET ID

S-104



[illegible]

DRAWN BY:	K. HODNE	SOLICITATION NO.:	W912DQ20R4021
CHECKED BY:	Y. DING	CONTRACT NO.:	TBD
SUBMITTED BY:	W. HOLMAN		
SIZE:			
ANSI D			

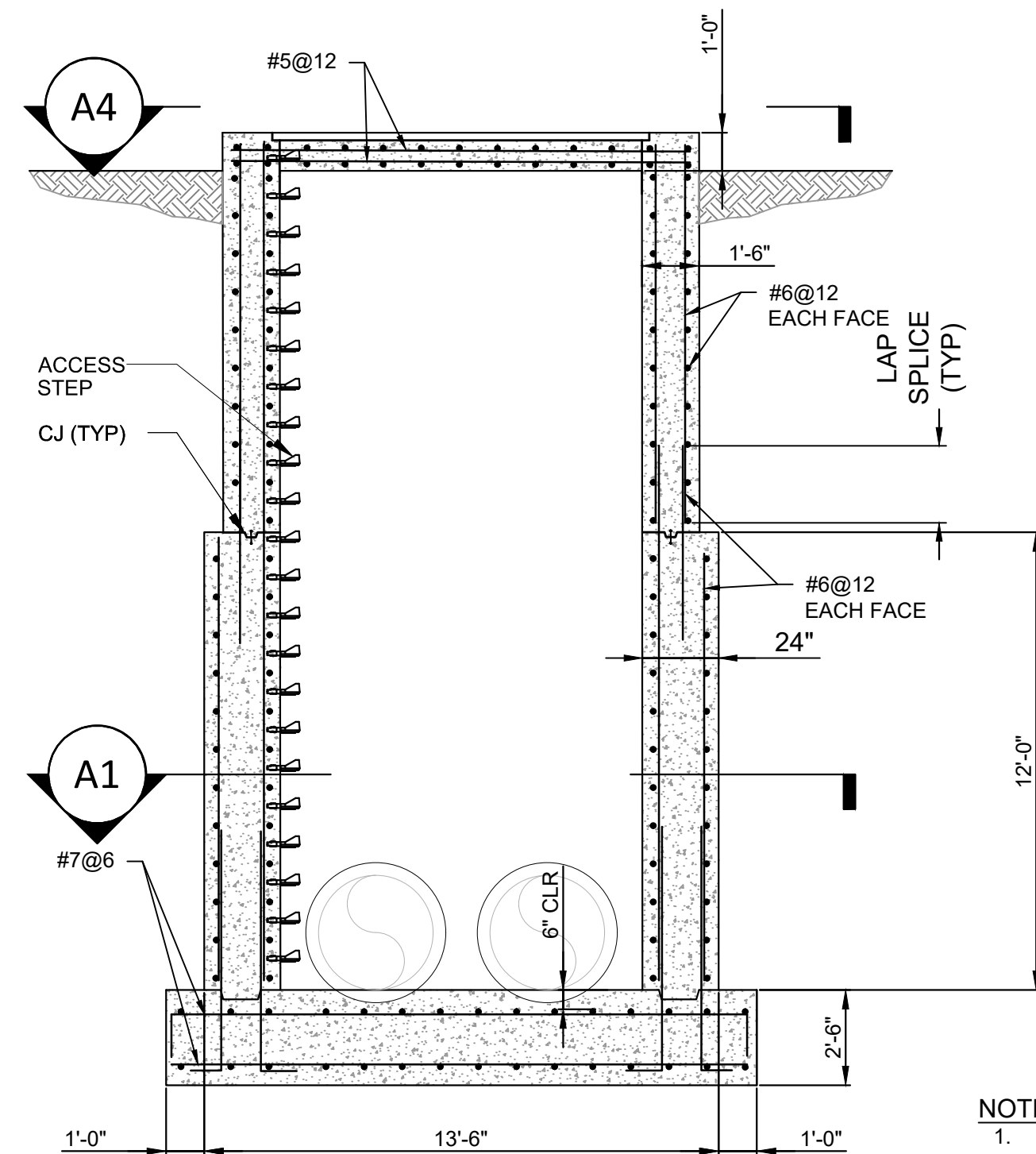
KANSAS CITY DISTRICT I
601 E. 12TH STREET
KANSAS CITY, MO, 64106

PORT LEAVENWORTH
FORT LEAVENWORTH, KS

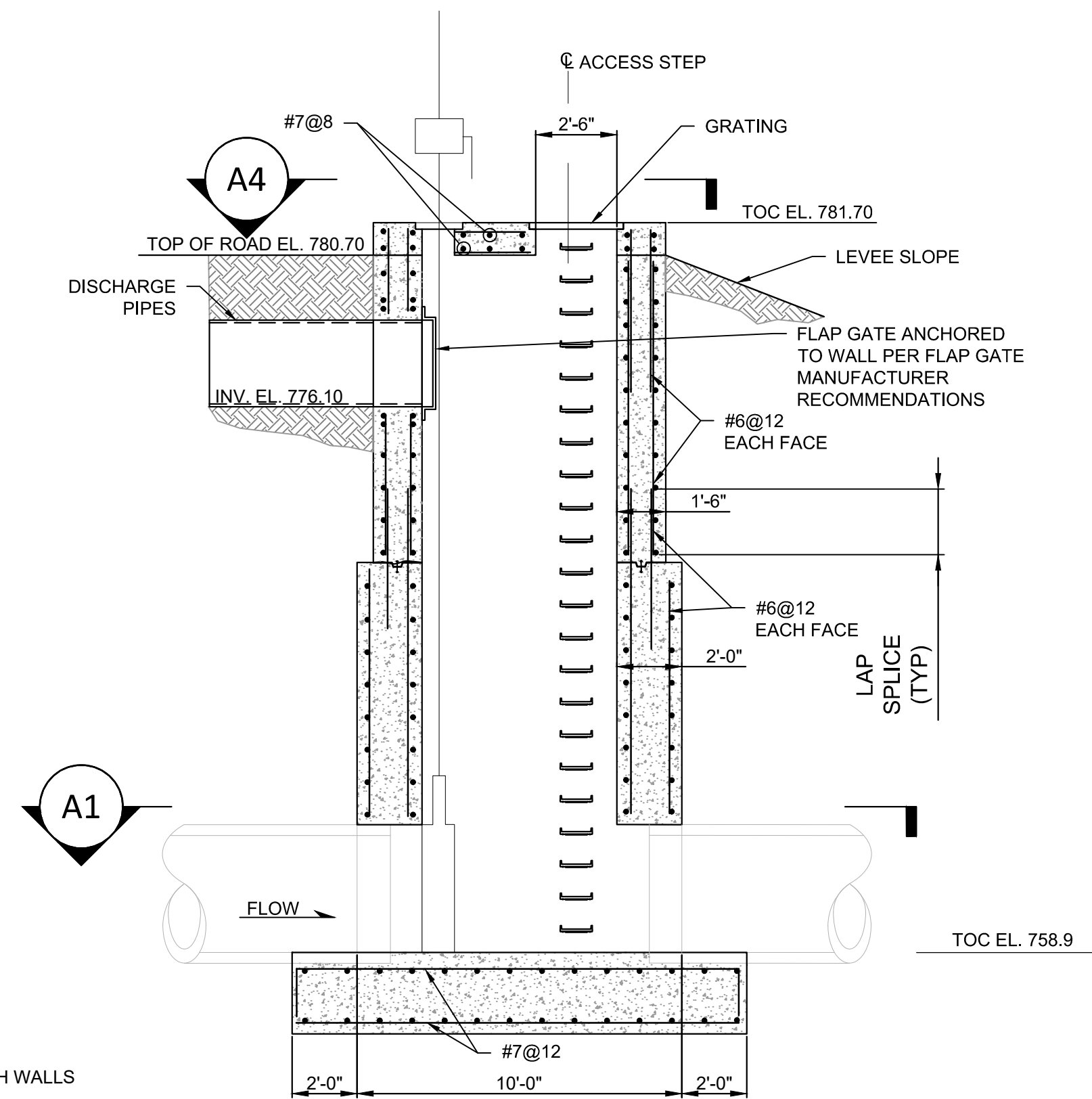
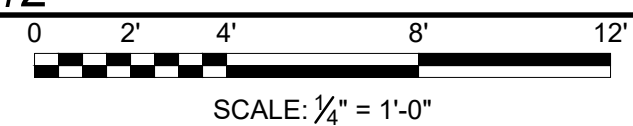
STRUCTURAL PLAN AND SECTIONS
DISCHARGE CHAMBER #2

SHEET ID

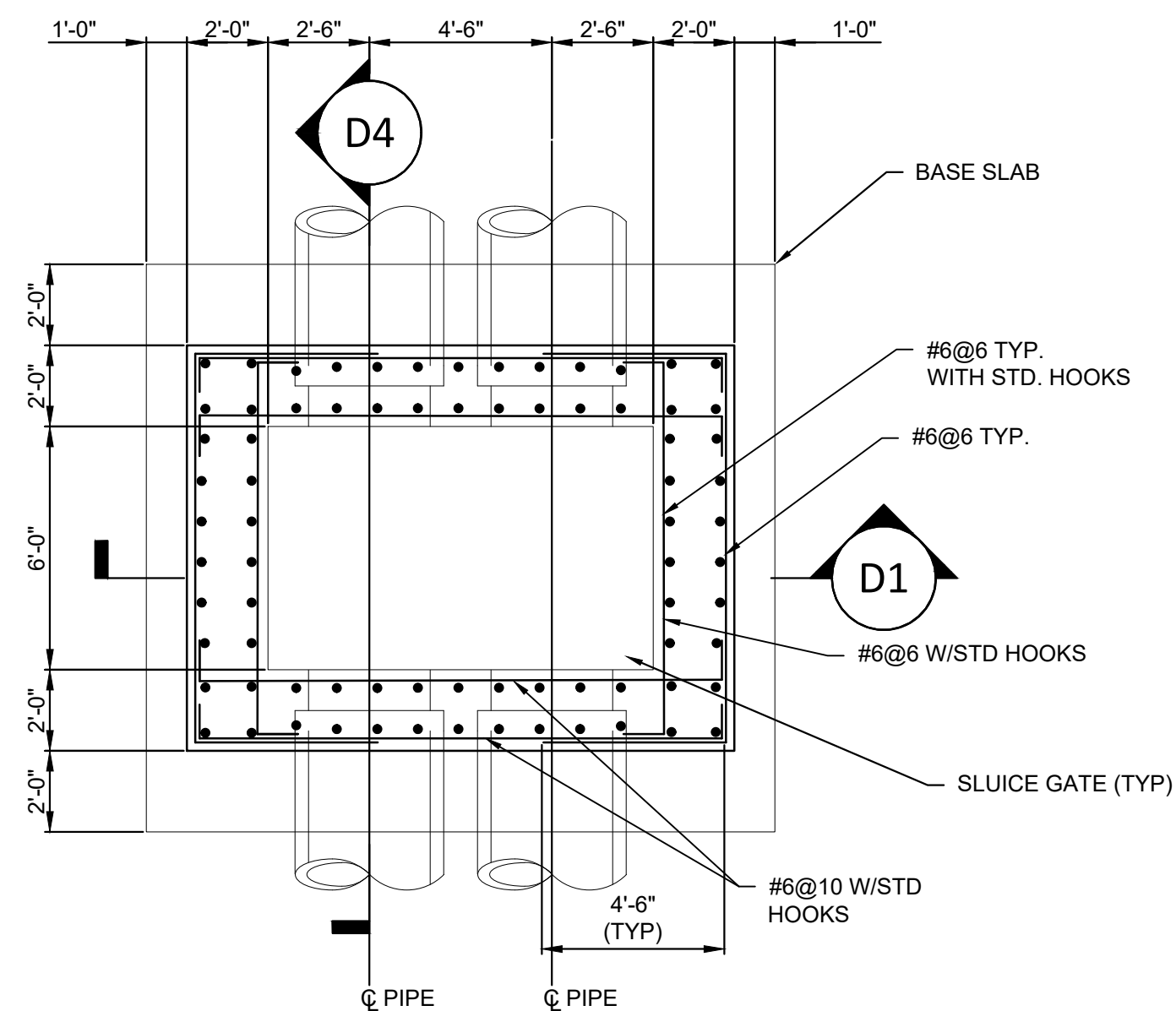
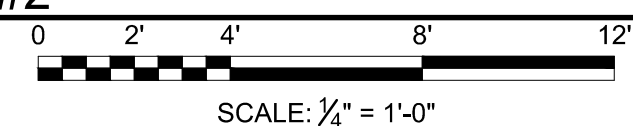
S-105



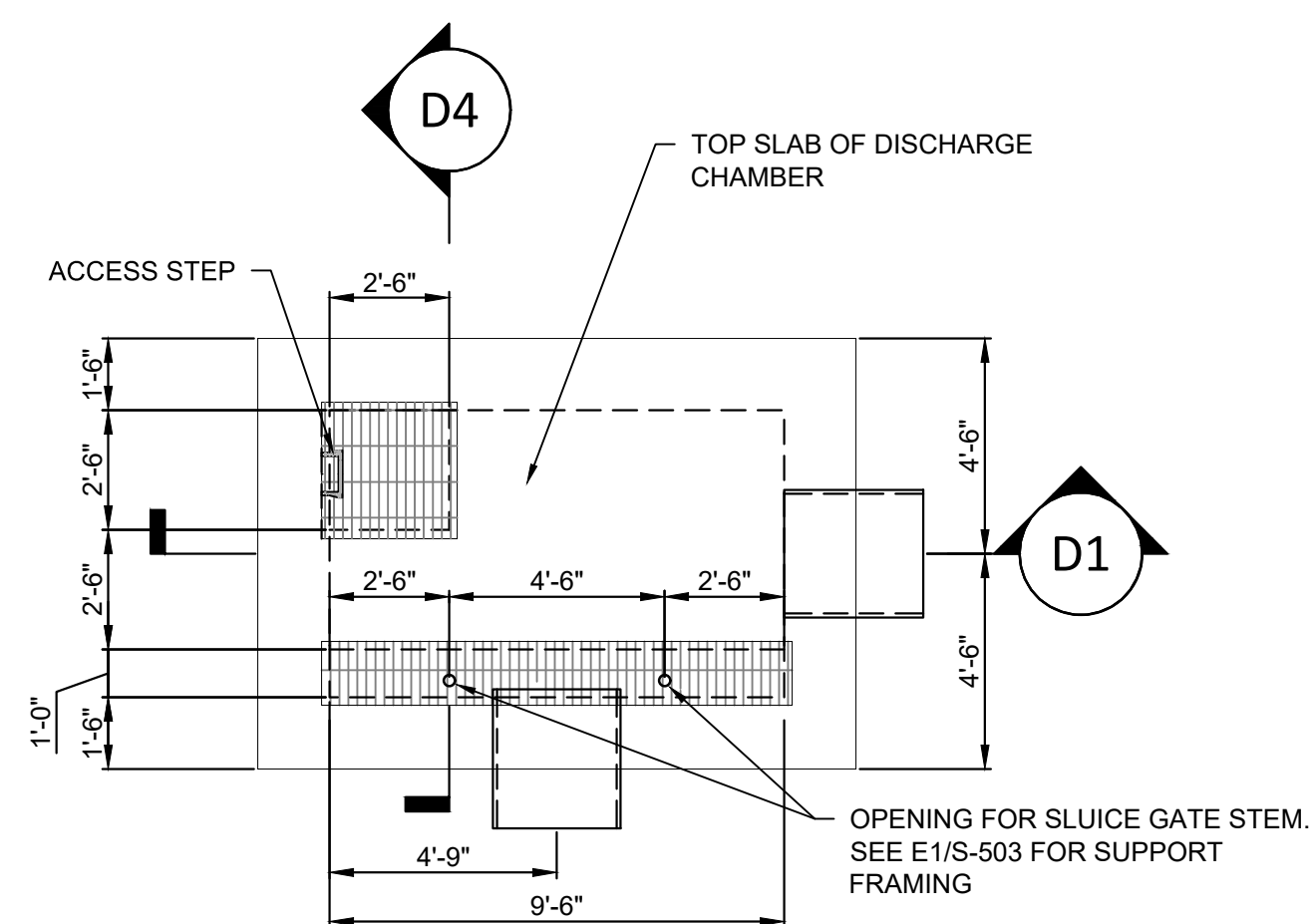
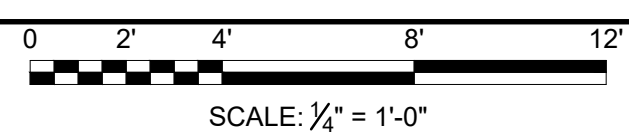
D1 SECTION - DISCHARGE CHAMBER #2
SCALE: 1/4"=1'-0" 0



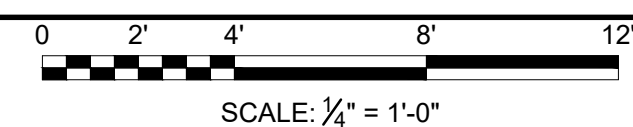
D4 SECTION - DISCHARGE CHAMBER #2
SCALE: 1/4"=1'-0" 0

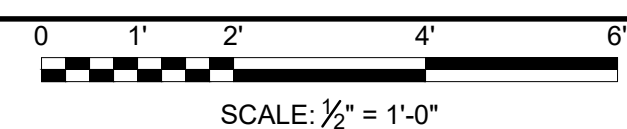
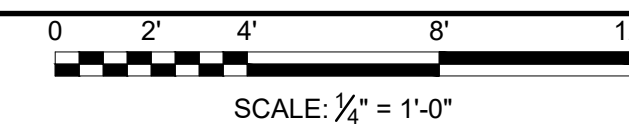
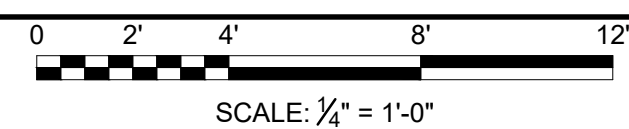
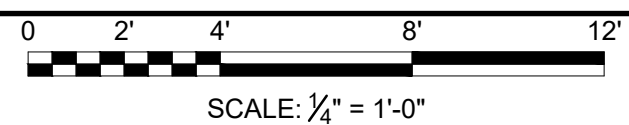


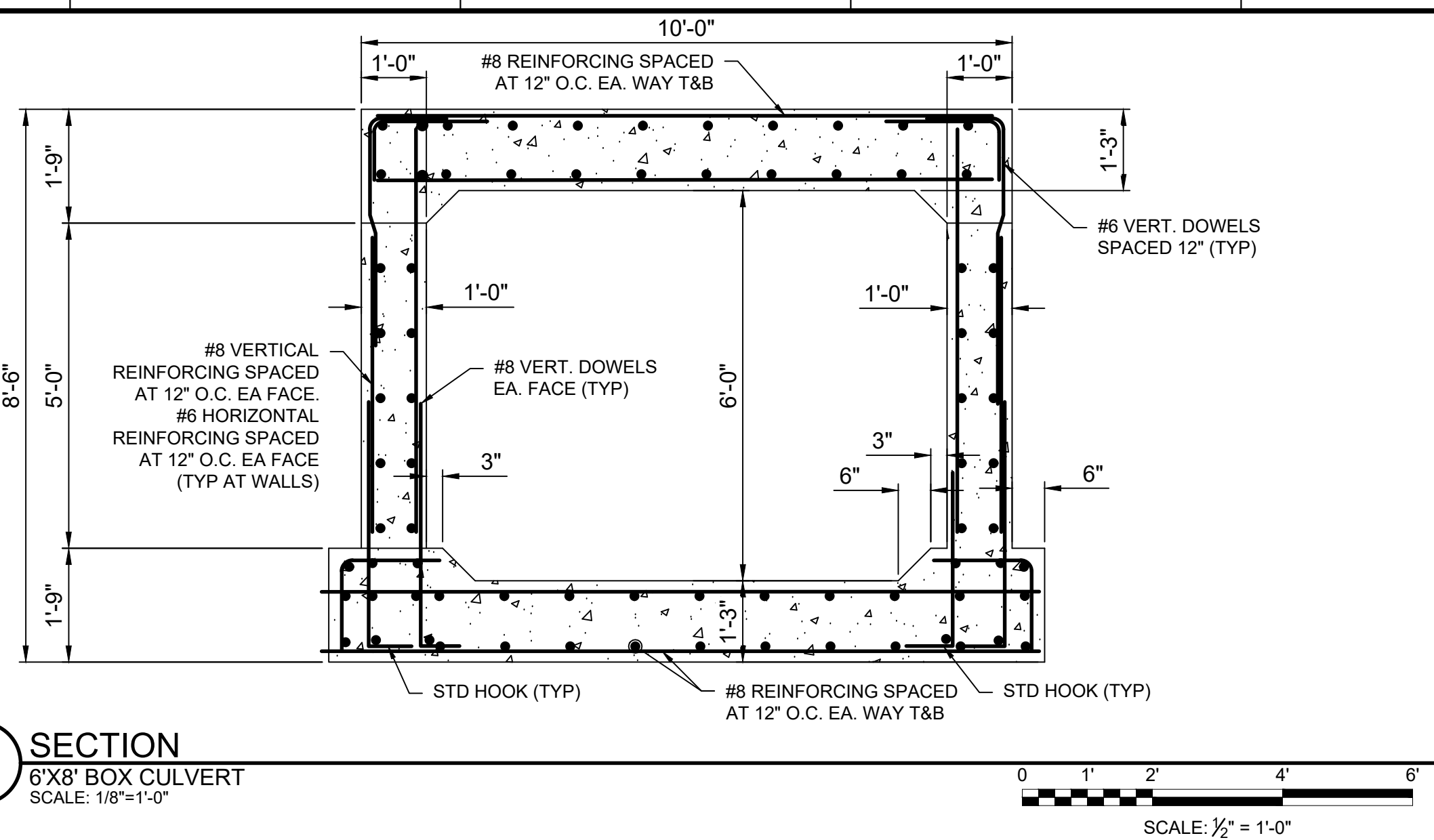
A1 FOUNDATION PLAN
DISCHARGE CHAMBER #2
SCALE: 1/4"=1'-0"



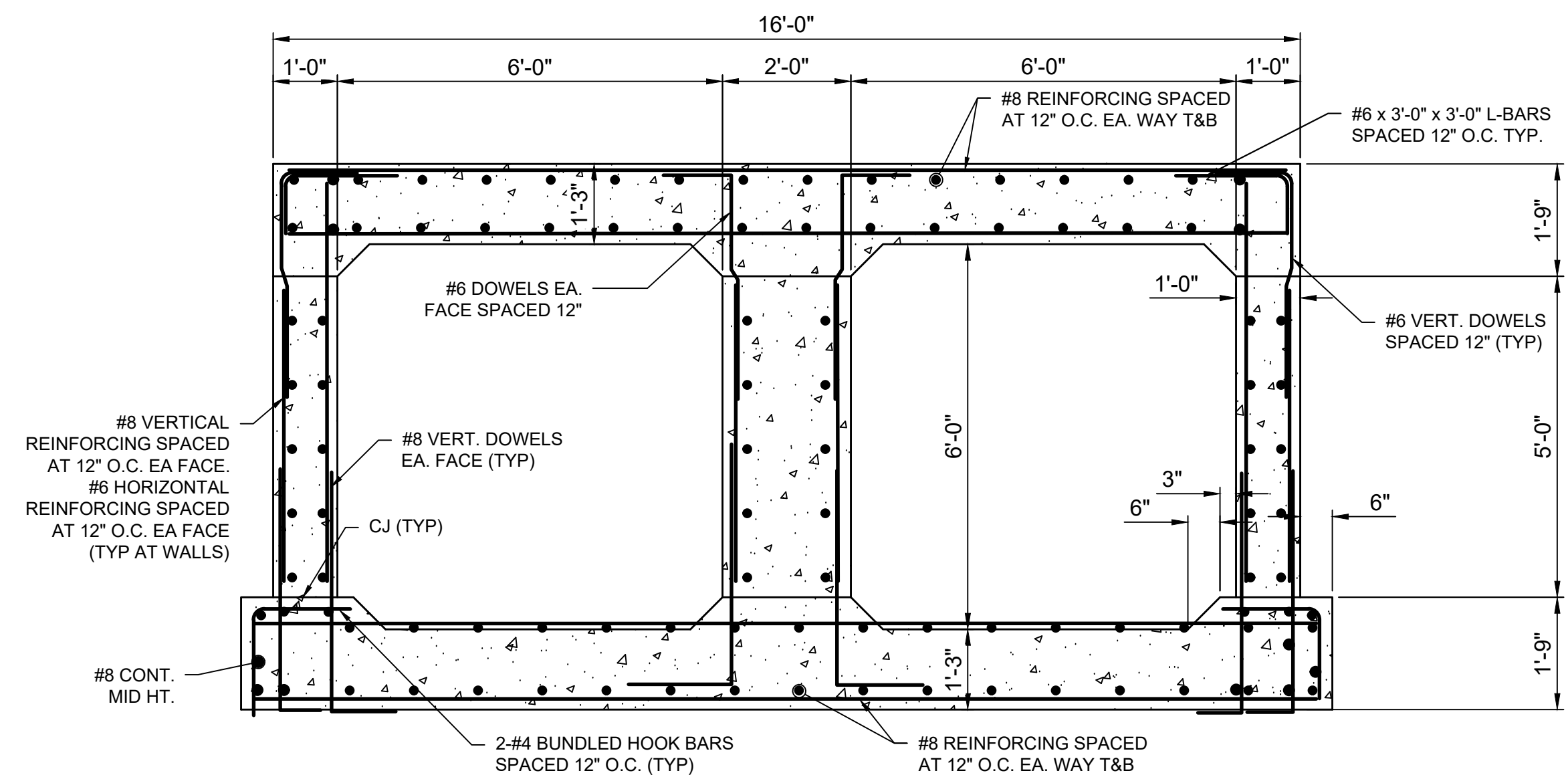
A4 **TOP PLAN**
DISCHARGE CHAMBER #2
SCALE: 1/4"=1'-0"







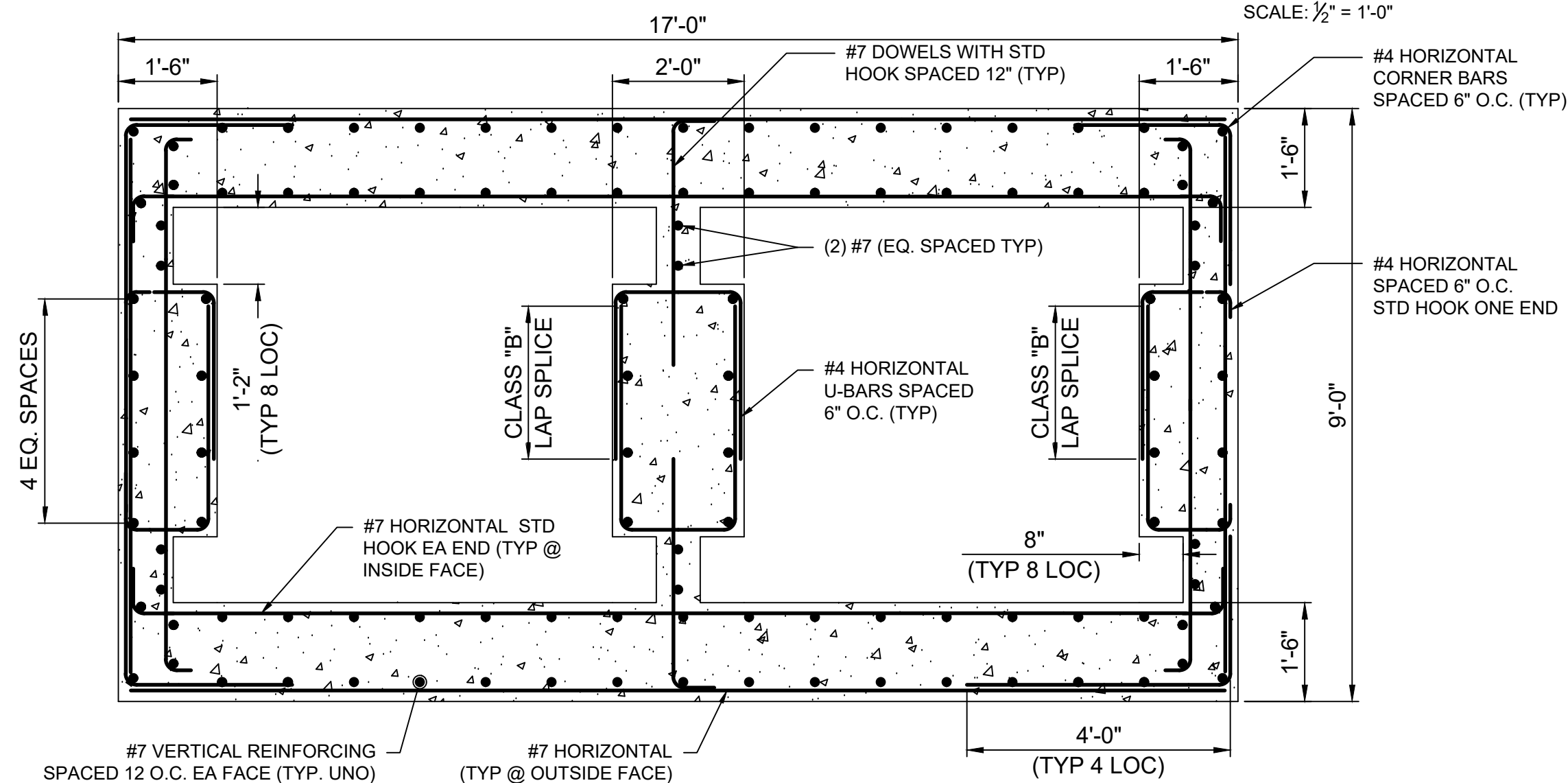
F6 SECTION
6'X8' BOX CULVERT
SCALE: 1/8"=1'-0"



C6 SECTION

DOUBLE 6'X6' BOX CULVERT UNDER ENTRANCE ROAD

SCALE: 1/8"=1'-0"



A6 PLAN
DOUBLE 6'X6' BOX CULVERT UNDER ENTRANCE ROAD
SCALE: 1/8"=1'-0"

E1 SECTION
CHANNEL
SCALE: 1/8"=1'-0"

A1 SECTION
QUARRY CREEK CHANNEL
SCALE: 1/8"=1'-0"

[illegible]

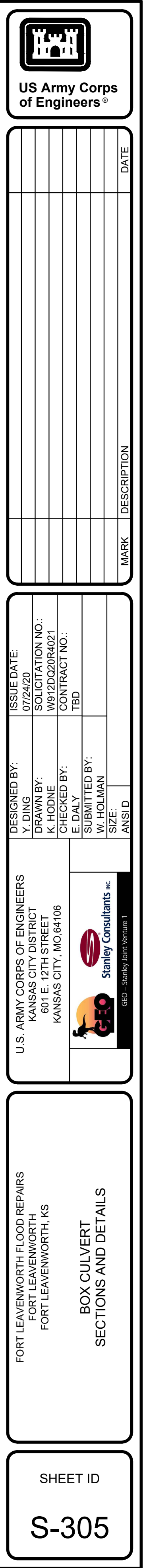
 Stanley Consultants Inc.	DESIGNED BY: J. DING KANSAS CITY DISTRICT 601 E. 12TH STREET KANSAS CITY, MO 64106		ISSUE DATE: 07/24/00
	CHECKED BY: D. KADANE W9132QZ004301 CONTRACT NO.: TBD		DATE: 07/24/00
 Stanley Consultants Inc.	SUBMITTED BY: W. HOLMAN		DATE: 07/24/00
	SIZE: ANS I		DATE: 07/24/00

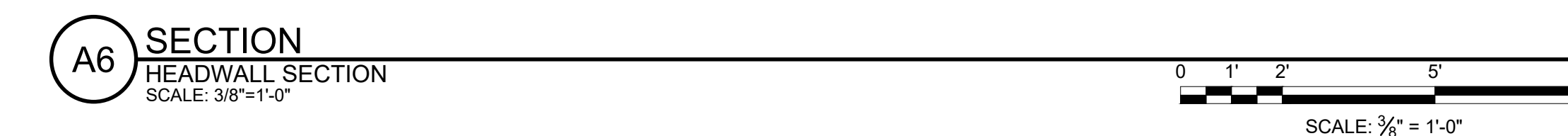
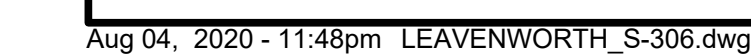
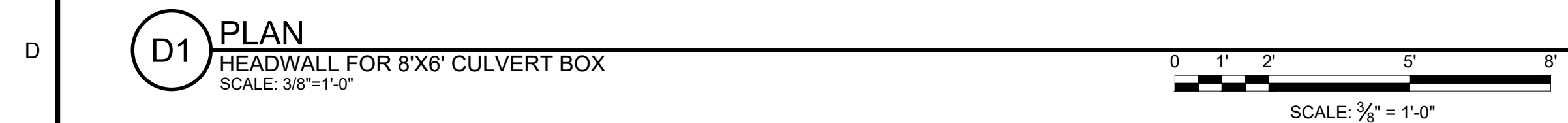
**FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS**

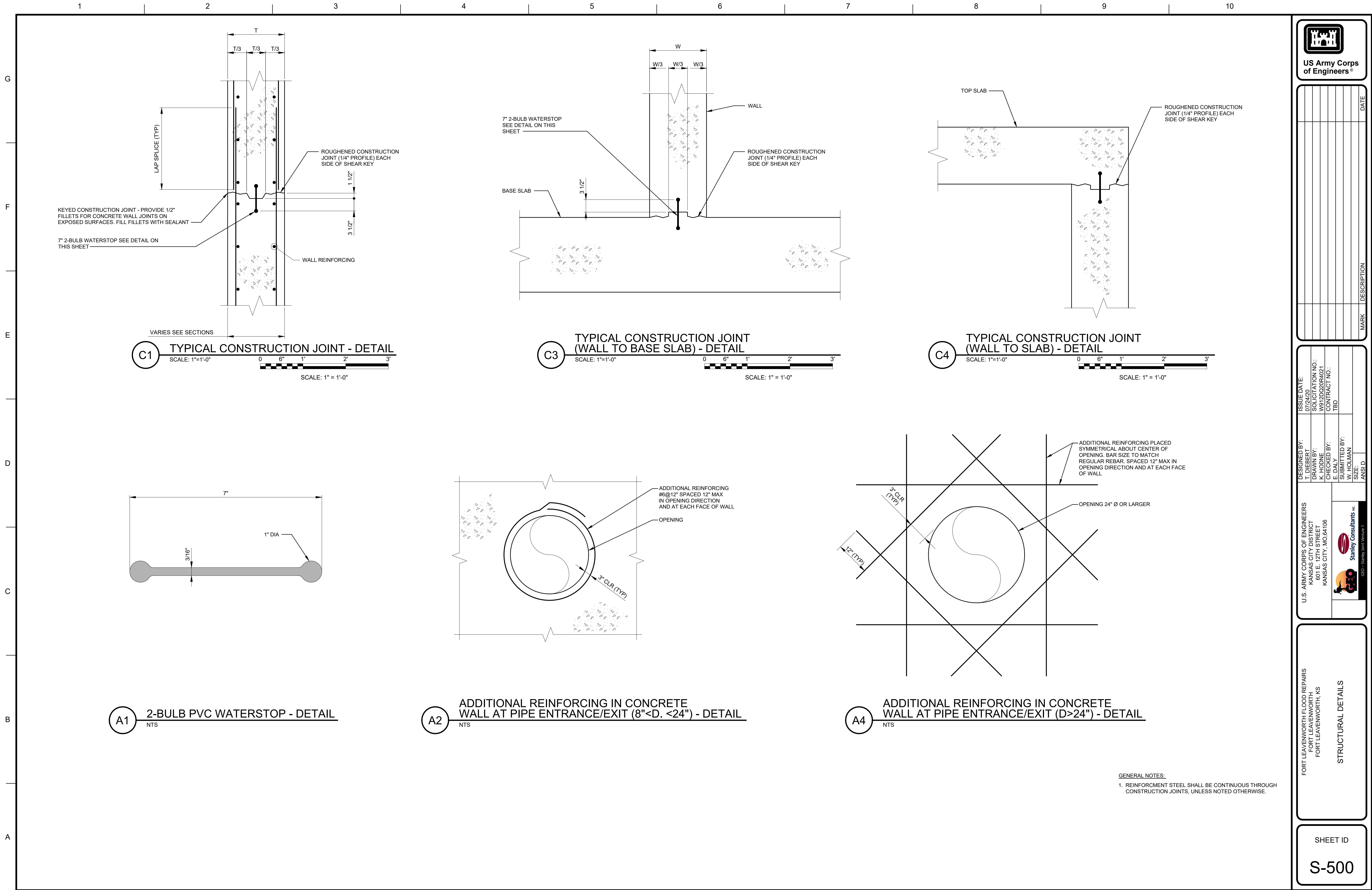
BOX CULVERT DETAILS

SHEET ID

S-304



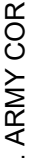






1. FRP GUARDRAIL SHALL BE FABRICATED TO MEET OSHA SAFETY REQUIREMENTS.

[illegible]

 Stanley Consultants Inc.	U.S. ARMY CORPS OF ENGINEERS DISTRICT OFFICE 601 E. 12TH STREET KANSAS CITY, MO 64108	DESIGNED BY: T. DIEBERT	ISSUE DATE: 07/24/20
		DRAWN BY: K. HOJINE	SOLICITATION NO.: W812DQ20R4021
		CHECKED BY: TBD	CONTRACT NO.: TBD
		SUBMITTED BY: W. HOLMAN	
		SIZE:	

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

GUARDRAIL DETAILS

SHEET ID

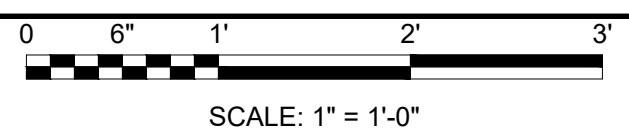
S-501





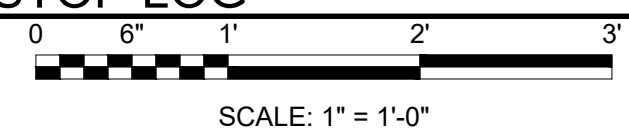
ELEVATION - STOP LOG

SCALE: 1"=1'-0"

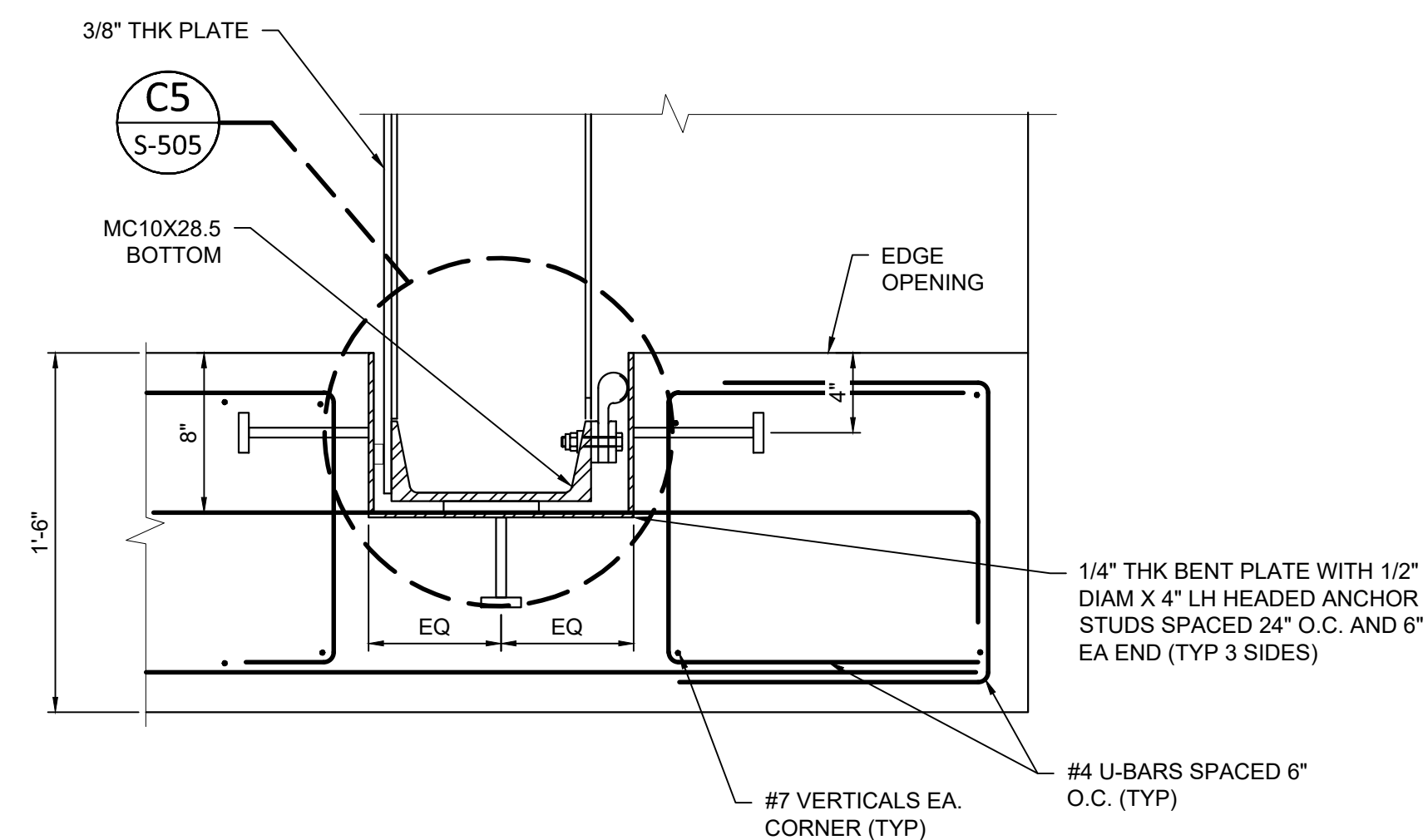
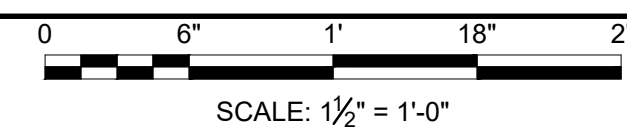


SECTION - STOP LOG

SCALE: 1"=1'-0"

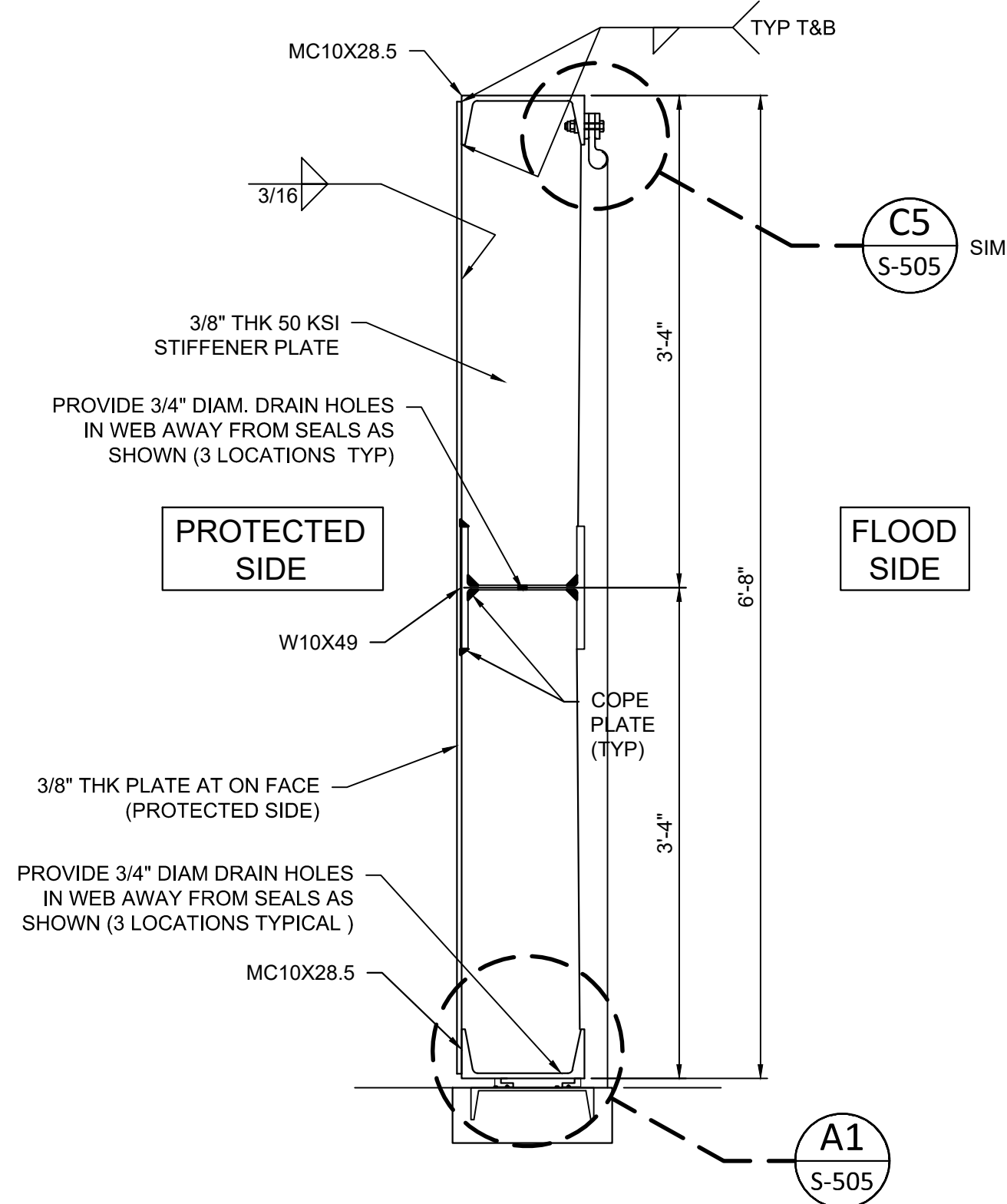


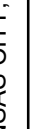
SCALE: 3"=1'-0"



(A1) PARTIAL PLAN DETAIL
SCALE: 1/4"=1'-0"

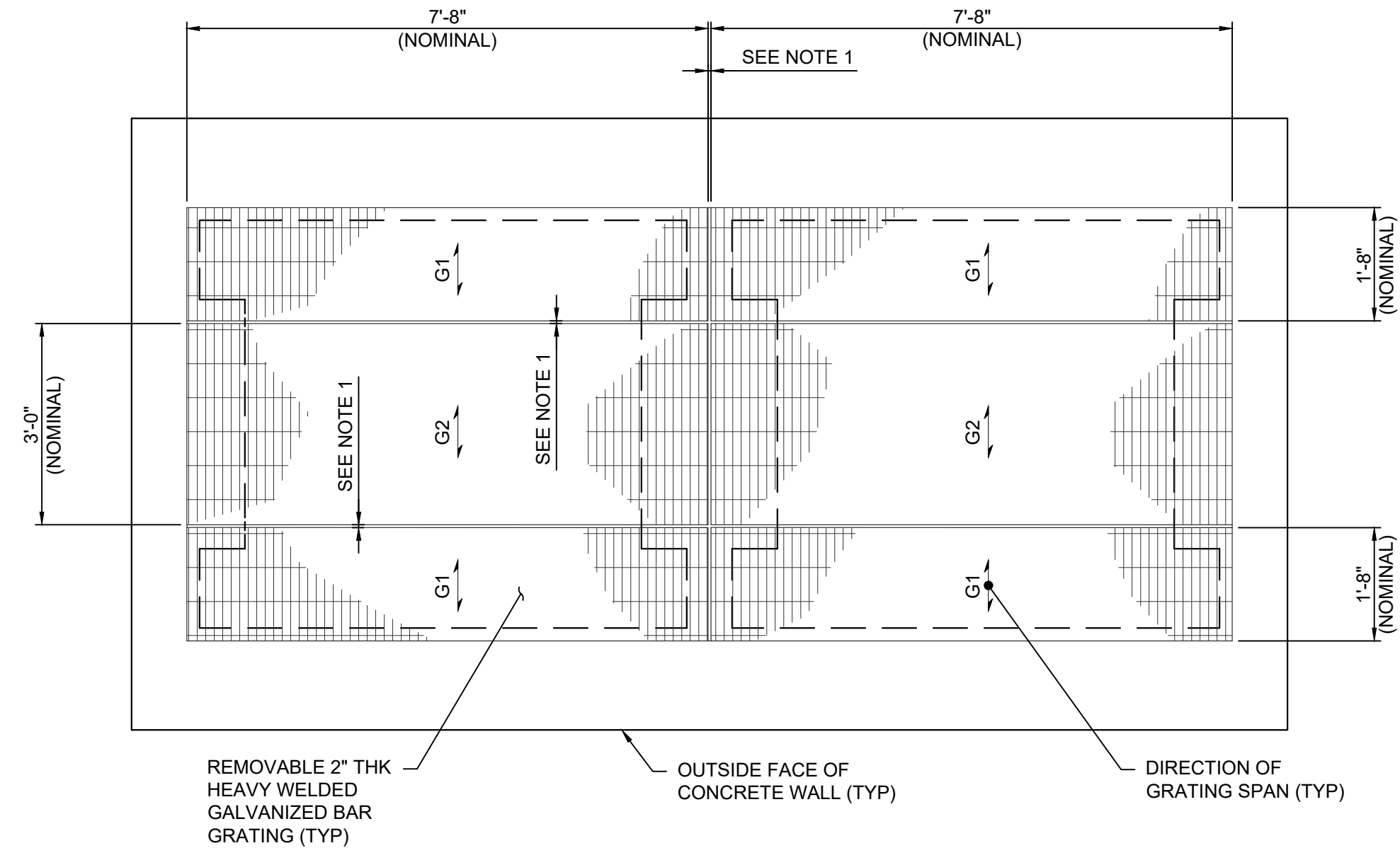
SCALE: 1 1/2"=1'-0"

[illegible]

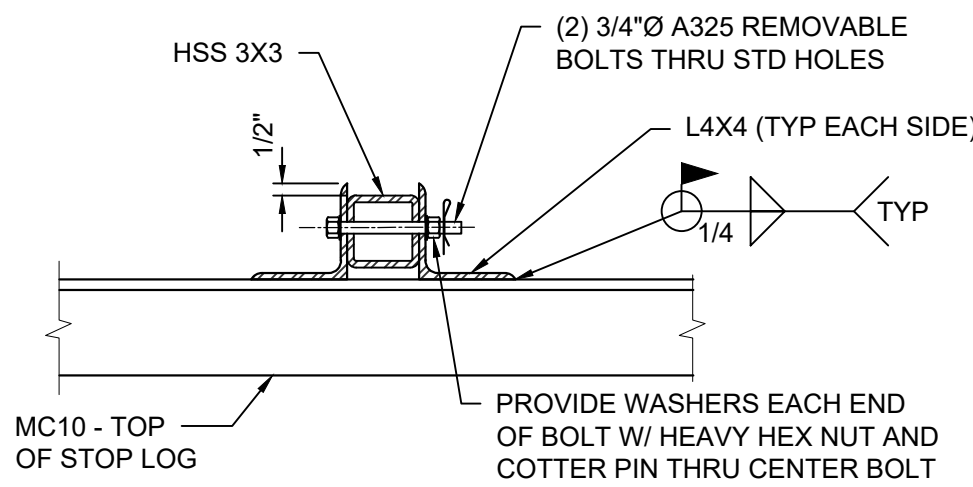
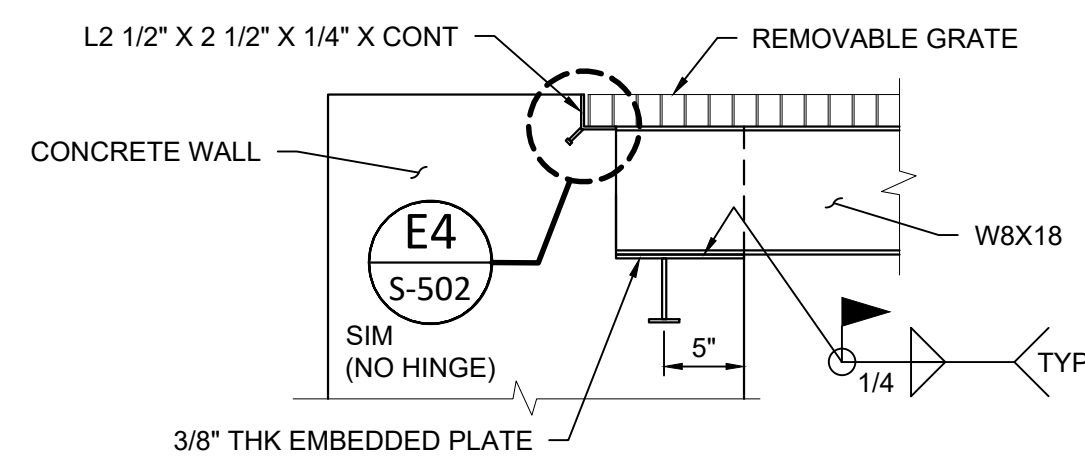
 Stanley Consultants Inc.	U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 601 E. 12TH STREET KANSAS CITY, MO 64106	DESIGNED BY: T. PERBERT DRAWN BY: K. HODNE CHECKED BY: E. DALY SUBMITTED BY: W. HOLMAN	ISSUE DATE: 06/04/2002 SOLICITATION NO.: W912DQ020R4021 CONTRACT NO.: TBD
		SIZE: ANSI D	

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS
STOP LOG DETAILS

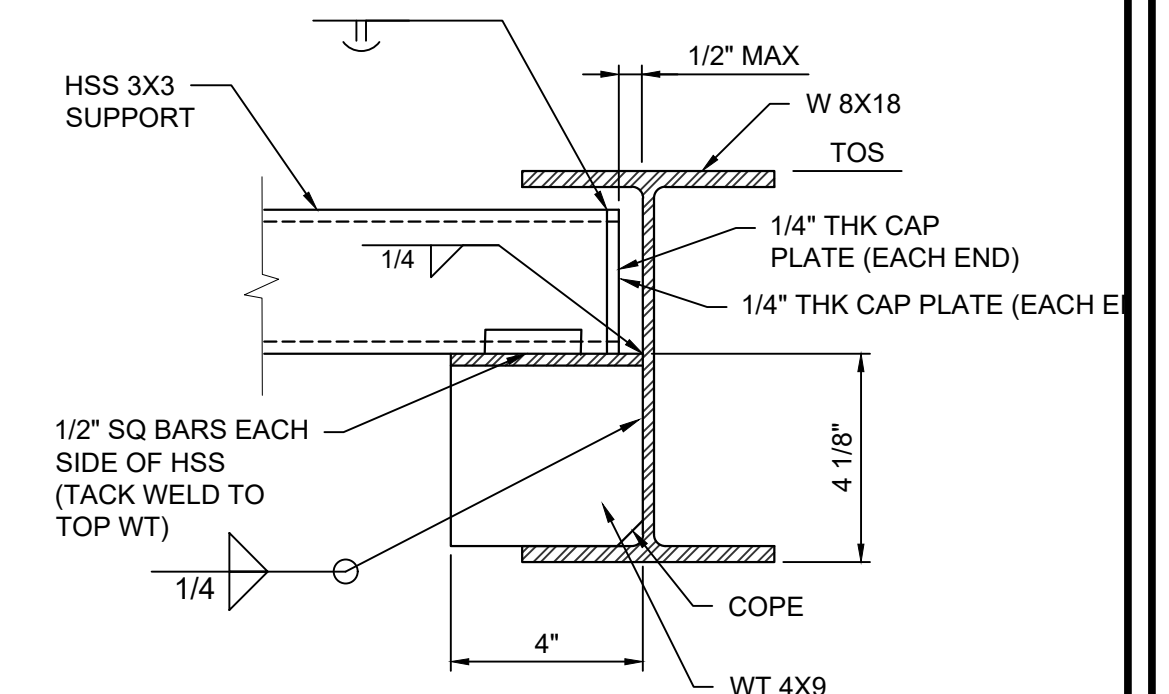
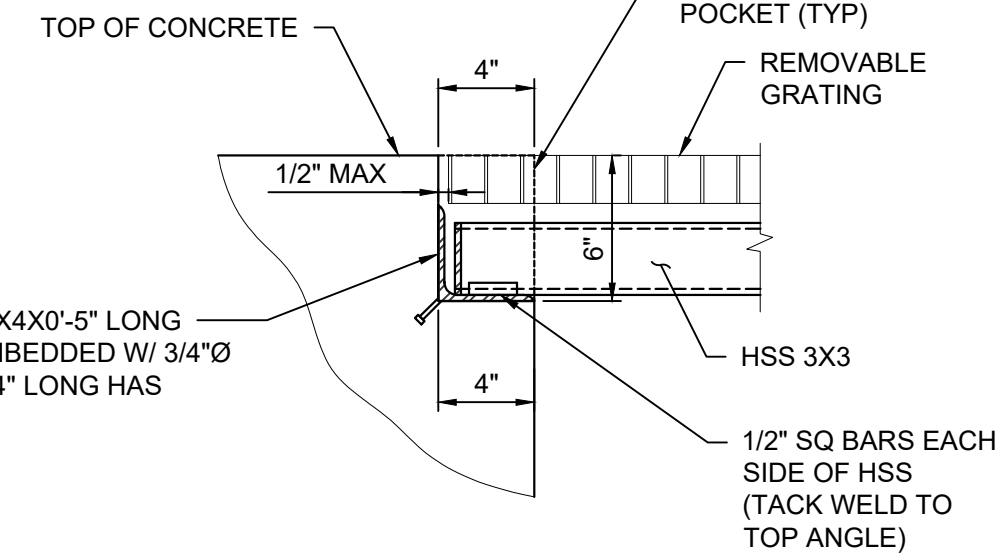
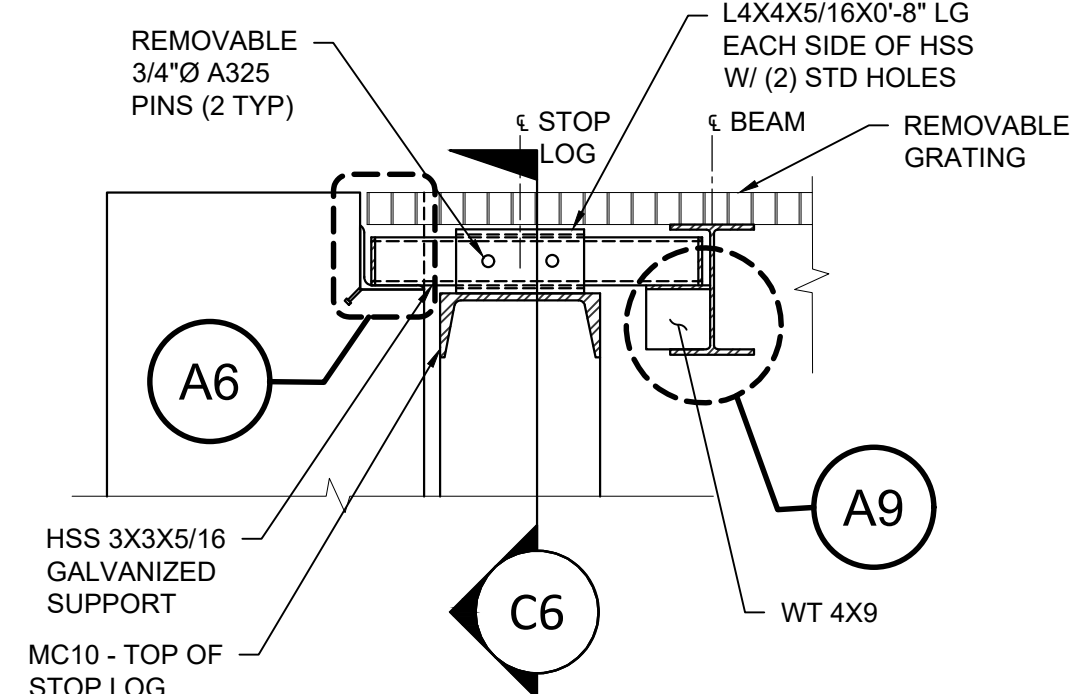
SHEET ID
S-506



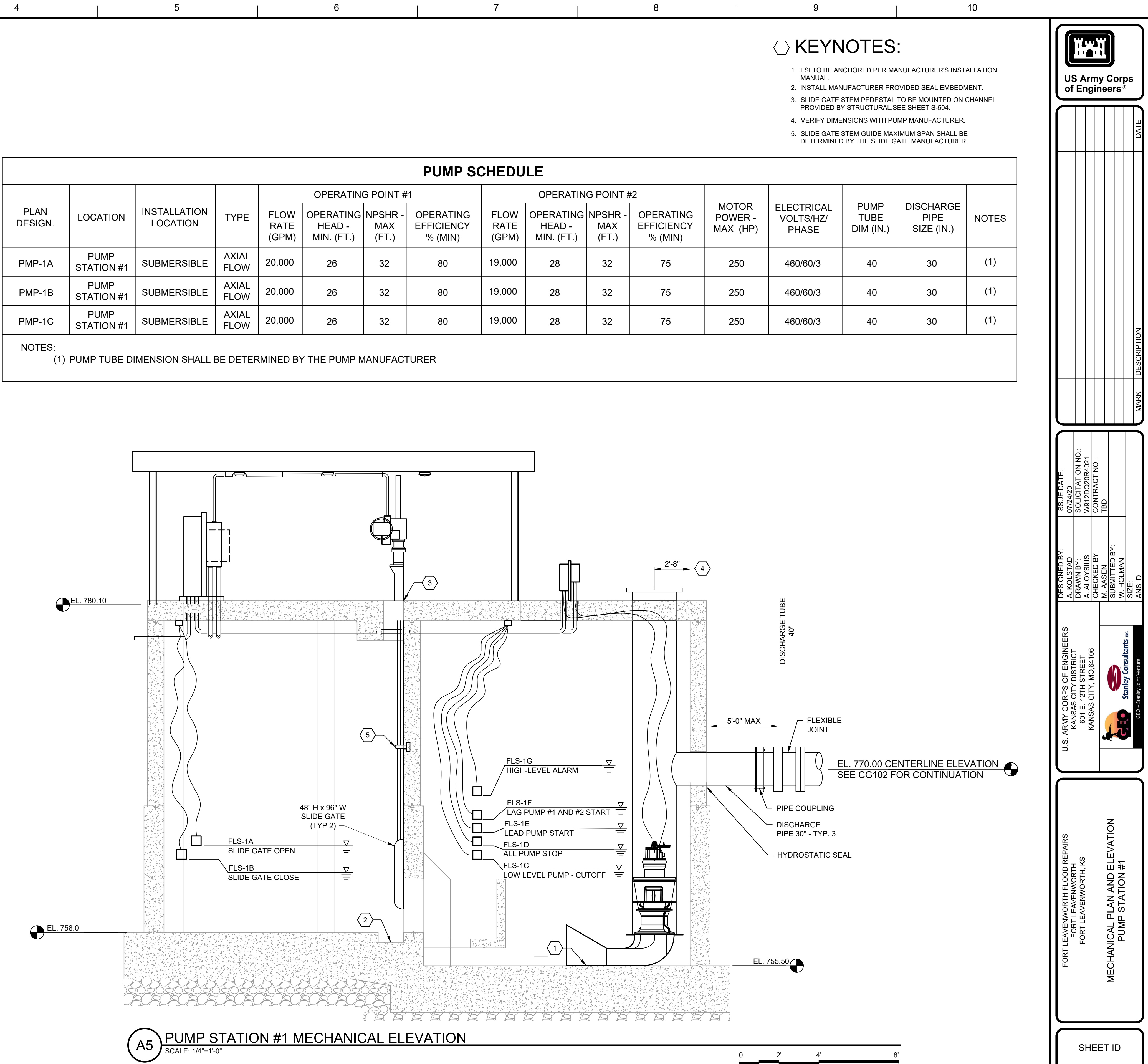
E6 GRATING PLAN (TOP BULKHEAD)



C6 SECTION

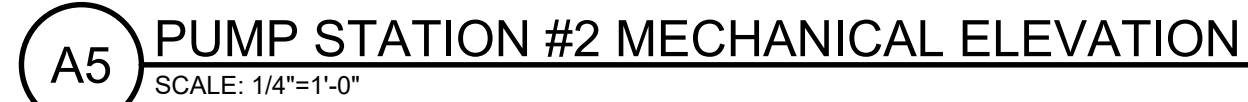


A9 DETAIL



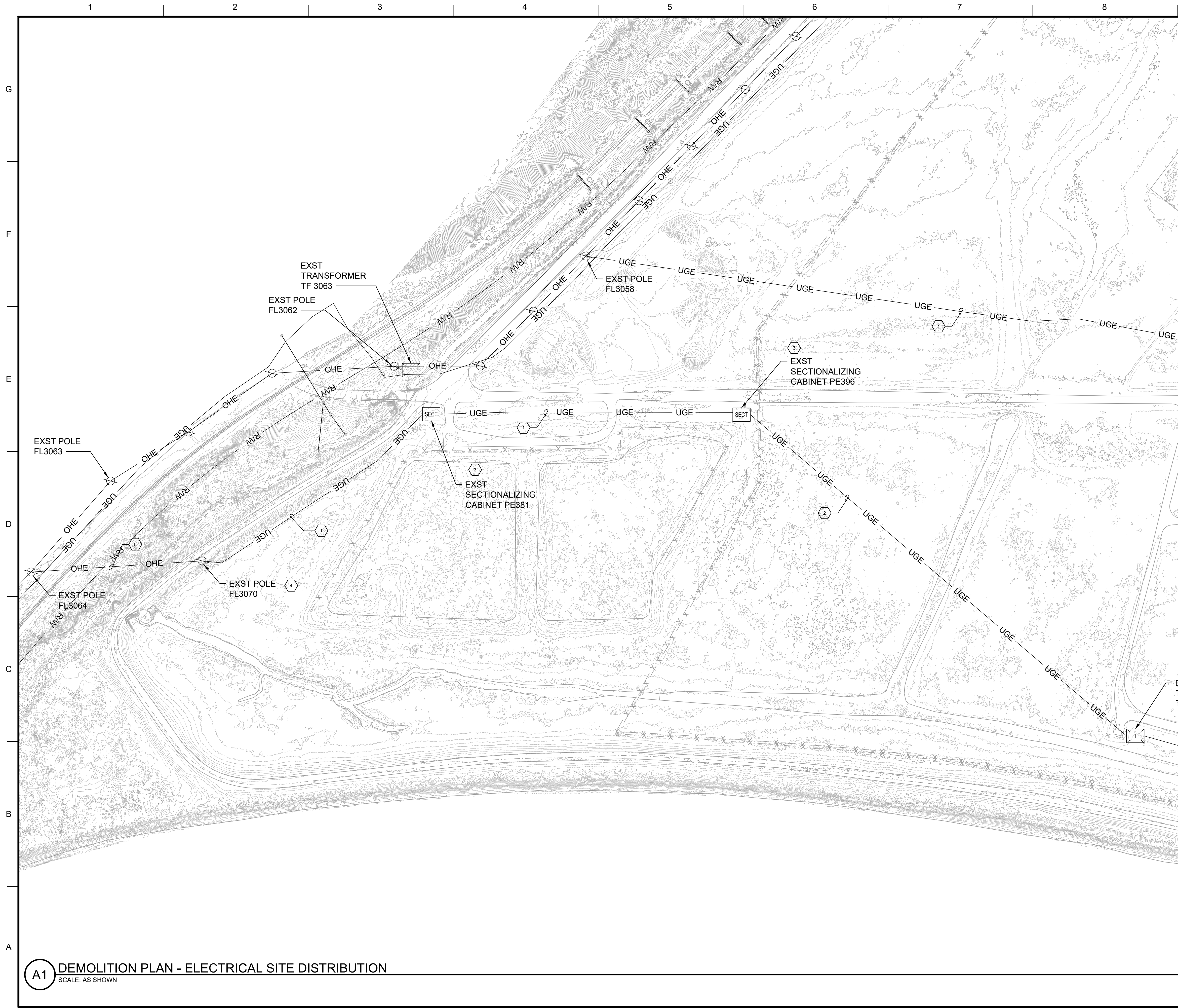


PUMP SCHEDULE																
PLAN DESIGN.	LOCATION	INSTALLATION LOCATION	TYPE	OPERATING POINT #1				OPERATING POINT #2				MOTOR POWER - MAX (HP)	ELECTRICAL VOLTS/HZ/ PHASE	PUMP TUBE DIM (IN.)	DISCHARGE PIPE SIZE (IN.)	NOTES
				FLOW RATE (GPM)	OPERATING HEAD - MIN. (FT.)	NPSHR - MAX (FT.)	OPERATING EFFICIENCY % (MIN)	FLOW RATE (GPM)	OPERATING HEAD - MIN. (FT.)	NPSHR - MAX (FT.)	OPERATING EFFICIENCY % (MIN)					
PMP-2A	PUMP STATION #2	SUBMERSIBLE	AXIAL FLOW	20,000	26	32	80	19,000	28	32	75	250	460/60/3	40	30	(1)
PMP-2B	PUMP STATION #2	SUBMERSIBLE	AXIAL FLOW	20,000	26	32	80	19,000	28	32	75	250	460/60/3	40	30	(1)
NOTES: (1) PUMP TUBE DIMENSION SHALL BE DETERMINED BY THE PUMP MANUFACTURER																



FINAL SUBMITTAL





- KEYNOTES:**
- DISCONNECT AND REMOVE EXISTING UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION CABLES AND CONDUIT.
 - DISCONNECT AND REMOVE EXISTING UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION CABLES AND CONDUIT. EXISTING CONDUIT RISER INTO WELLHOUSE TRANSFORMER TO REMAIN FOR REUSE.
 - DISCONNECT AND REMOVE EXISTING SECTIONALIZING CABINET.
 - EXISTING OVERHEAD RISER POLE TO BE RELOCATED TO COORDINATE WITH NEW ROADWAY. REMOVE EXISTING POLE AND RISER CONDUIT.
 - EXISTING OVERHEAD SPAN TO BE RELOCATED TO COORDINATE WITH NEW RISER POLE LOCATION. REMOVE EXISTING OVERHEAD THREE-PHASE SPAN.

US Army Corps of Engineers®

ISSUE DATE		SOLICITATION NO.		CONTRACT NO.	
07/29/20		601 E. 12TH STREET		TBD	

DESIGNED BY:		CHECKED BY:		SUBMITTED BY:	
A. ADAM		J. COAN		W. HOLMAN	

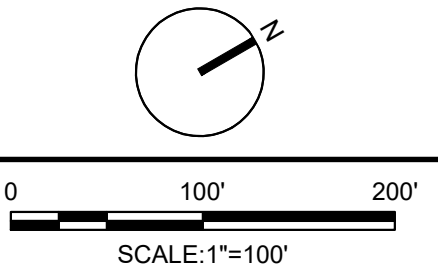
U.S. ARMY CORPS OF ENGINEERS		Stanley Consultants Inc.	
KANSAS CITY DISTRICT		GEO - Stanley Joint Venture 1	
601 E. 12TH STREET			
KANSAS CITY, MO 64106			

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

DEMOLITION PLAN - ELECTRICAL SITE DISTRIBUTION

SHEET ID
ED101

A1 DEMOLITION PLAN - ELECTRICAL SITE DISTRIBUTION
SCALE: AS SHOWN

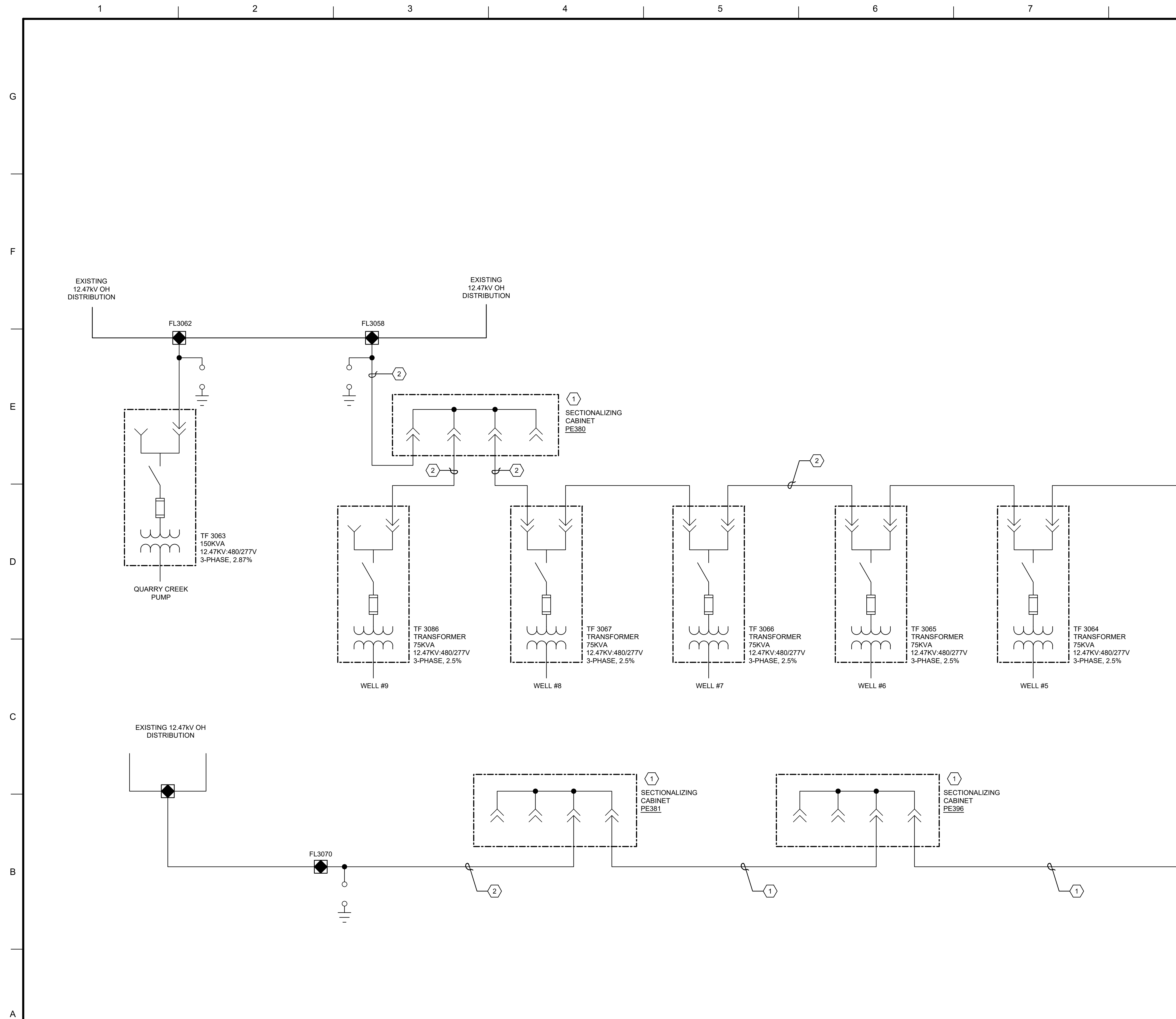




--	--	--	--	--

7





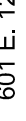
KEYNOTES:

1. REMOVE EXISTING SECTIONALIZING CABINET. COORDINATE WITH FREESTATE ELECTRICAL COOPERATIVE FORT LEAVENWORTH FOR ALL REQUIREMENTS.
2. DISCONNECT AND REMOVE UNDERGROUND MV CABLES. SEE SITE PLANS ED-001 AND ED-002. COORDINATE WITH FREESTATE ELECTRICAL COOPERATIVE FORT LEAVENWORTH FOR ALL REQUIREMENTS.



**U.S. Army Corps
of Engineers®**

[illegible]

 Stanley Consultants inc.	DRAWN BY: A. LOYSLY		SOLICITATION NO.: W912DQ20R4021
	CHECKED BY: J. COZAN		CONTRACT NO.: TBD
SUBMITTED BY: J. COZAN			
SCALE: AS SHOWN			
ANS I.D.			

FORT LEAVENWORTH
FORT LEAVENWORTH, KS

MEDIUM VOLTAGE
ONE LINE DIAGRAM - DEMOLITION

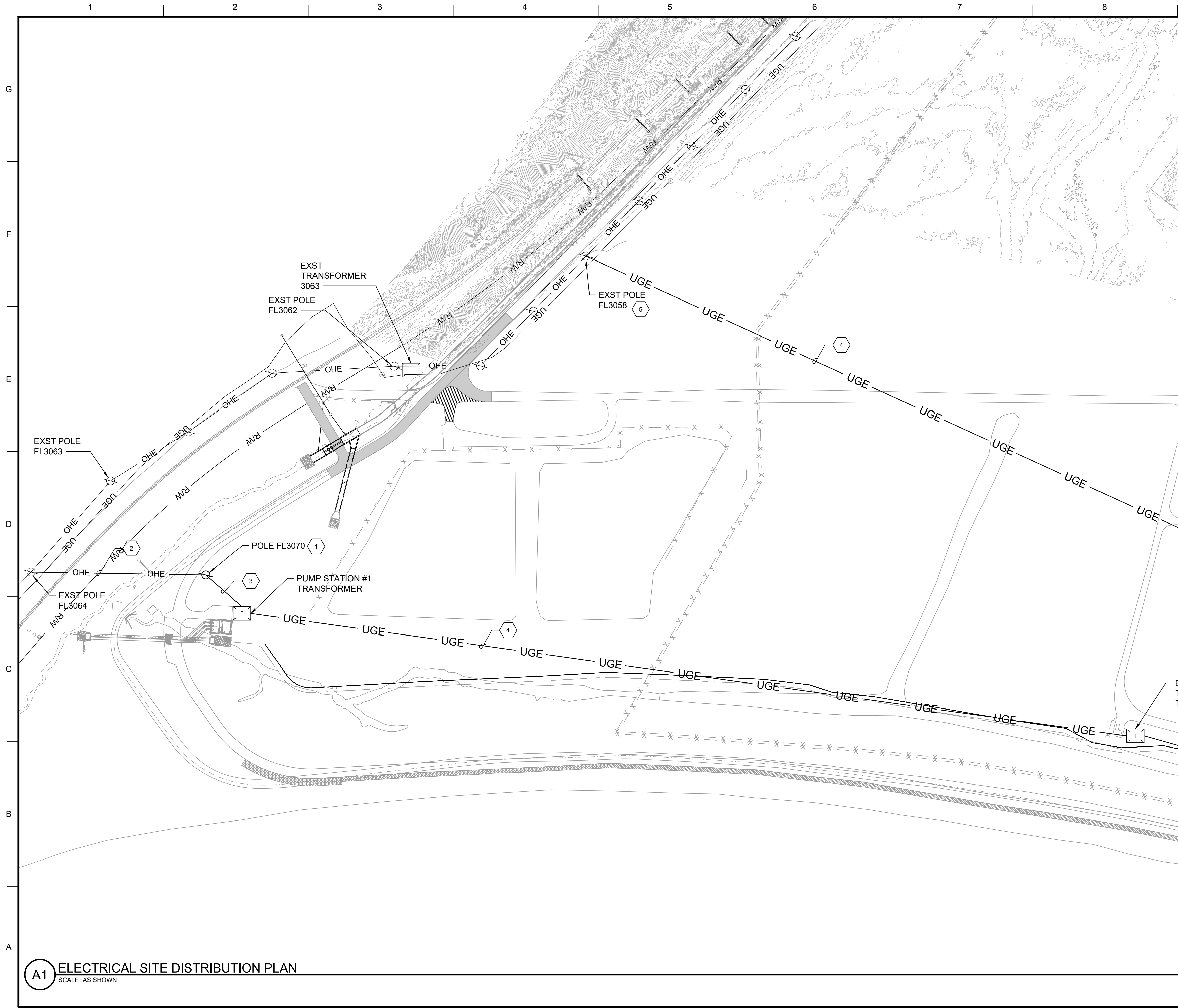
SHEET ID

ED601

(A1)

DEMOLITION - MEDIUM VOLTAGE - ONE LINE DIAGRAM

SCALE: NONE

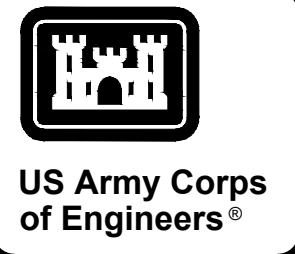


GENERAL NOTES:

- A. MEDIUM-VOLTAGE OVERHEAD AND UNDERGROUND DISTRIBUTION INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF FREESTATE ELECTRICAL COOPERATIVE FORT LEAVENWORTH SPECIFICATIONS FOR UNDERGROUND CONSTRUCTION.
- B. PUMP STATION TRANSFORMERS SHALL CONFORM TO THE REQUIREMENTS OF FREESTATE ELECTRIC COOPERATIVE SPECIFICATIONS FOR PAD-MOUNT THREE-PHASE DISTRIBUTION TRANSFORMERS.
- C. ALL NEW PRIMARY UNDERGROUND DISTRIBUTION CABLES ARE 4/0 ALUMINUM MV-105 133% EPR WITH 1/3 STRANDED COPPER CONCENTRIC NEUTRAL.

KEYNOTES:

- 1. SET NEW RISER POLE TO COORDINATE WITH NEW ACCESS ROAD LOCATIONS.
- 2. PROVIDE NEW THREE-PHASE OVERHEAD EXTENSION FROM POLE FL3064 TO NEW RISER POLE FL3070. NEW OVERHEAD WIRING SHALL BE 4/0 ALUMINUM CONDUCTOR.
- 3. DIRECT BURY OR DIRECTIONALLY DRILL THREE-PHASE UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION CABLES. PROVIDE CONDUIT SLEEVES INTO TRANSFORMER AT PUMP STATION.
- 4. DIRECT BURY OR DIRECTIONALLY DRILL THREE-PHASE UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION CABLES. UTILIZE EXISTING CONDUIT RISERS TO WELL HOUSE TRANSFORMER.
- 5. UTILIZE EXISTING RISER POLE TO CONNECT TO NEW UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION.



DATE	DESCRIPTION	MARK

DESIGNED BY: A. ADAM	ISSUE DATE: 07/24/20
DRAWN BY: J. COON	SOLICITATION NO.: WV-105-133
CHECKED BY: J. COON	CONTRACT NO.: TBD
SUBMITTED BY: W. HOLMAN	
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO 64106

Stanley Consultants Inc.
GEO - Stanley Joint Venture 1

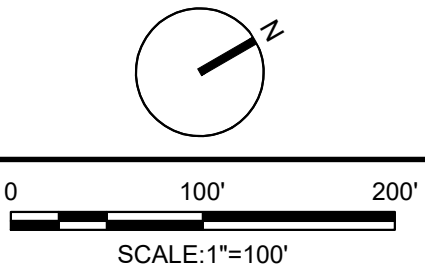
FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

ELECTRICAL SITE DISTRIBUTION PLAN

SHEET ID

ES101

A1 ELECTRICAL SITE DISTRIBUTION PLAN
SCALE: AS SHOWN





MEDIUM-VOLTAGE OVERHEAD AND UNDERGROUND DISTRIBUTION INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF FREESTATE ELECTRICAL COOPERATIVE FORT LEAVENWORTH SPECIFICATIONS FOR UNDERGROUND CONSTRUCTION.

PUMP STATION TRANSFORMERS SHALL CONFORM TO THE REQUIREMENTS OF FREESTATE ELECTRIC COOPERATIVE SPECIFICATIONS FOR PAD-MOUNT THREE-PHASE DISTRIBUTION TRANSFORMERS.

ALL NEW PRIMARY UNDERGROUND DISTRIBUTION CABLES ARE 4/0 ALUMINUM MV-105 133% EPR WITH 1/3 STRANDED COPPER CONCENTRIC NEUTRAL.

DIRECT BURY OR DIRECTIONALLY DRILL THREE-PHASE UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION CABLES. PROVIDE CONDUIT SLEEVES INTO TRANSFORMER AT PUMP STATION.

DIRECT BURY OR DIRECTIONALLY DRILL THREE-PHASE UNDERGROUND MEDIUM-VOLTAGE DISTRIBUTION CABLES. UTILIZE EXISTING CONDUIT RISERS TO WELL HOUSE TRANSFORMER.

[illegible]

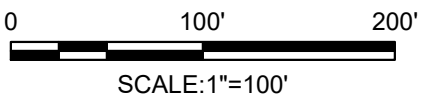
 Stanley Consultants inc.	U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 601 E. 12TH STREET I KANSAS CITY, MO 64106	ATTENTION: MR. ADAM S. ANDERSON PHONE NO.: 816.234.2020 FAX NO.: 816.234.2021 E-MAIL: adam.anderson@stanley-consultants.com	SOLICITATION NO.: W912D02R04021 CONTRACT NO.: TBD
	SUBMITTED BY: J. COOAN DATE: 12/10/2010	APPROVED BY: ANSLD DATE: 12/10/2010	COMMENTS:

FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS

ELECTRICAL SITE DISTRIBUTION PLAN
SHEET 2 OF 2

SHEET ID

ES102



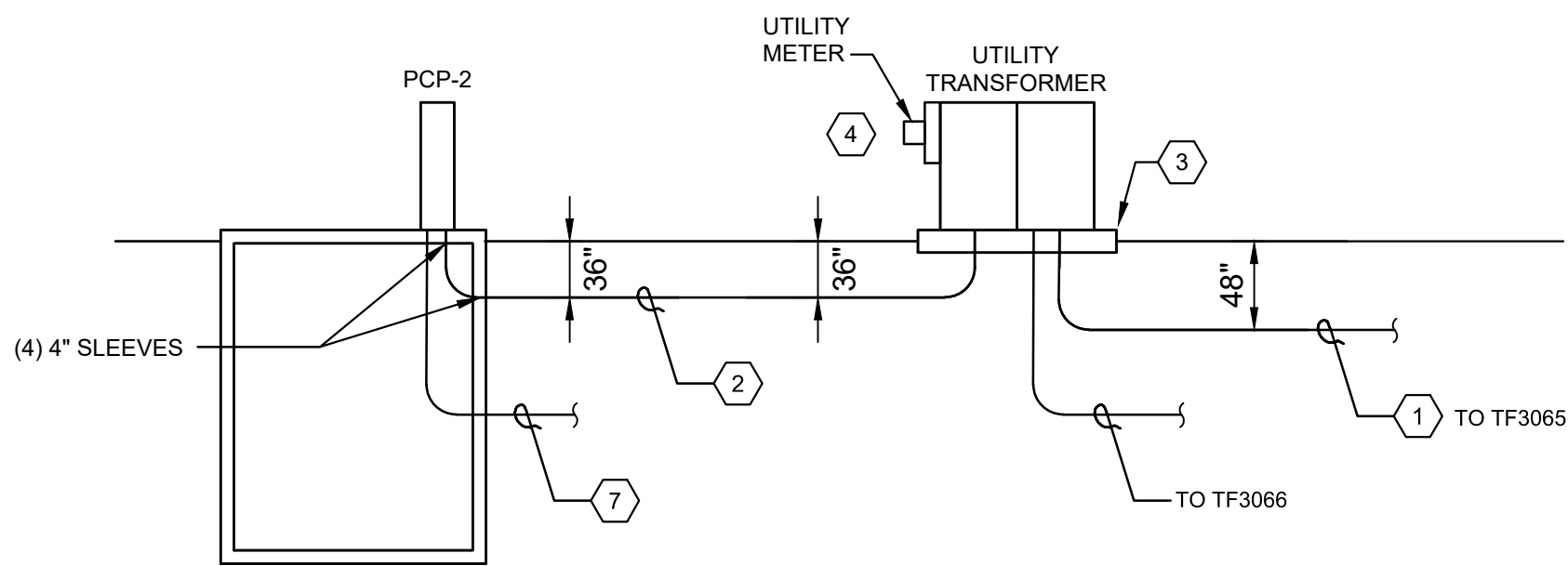


GENERAL NOTES

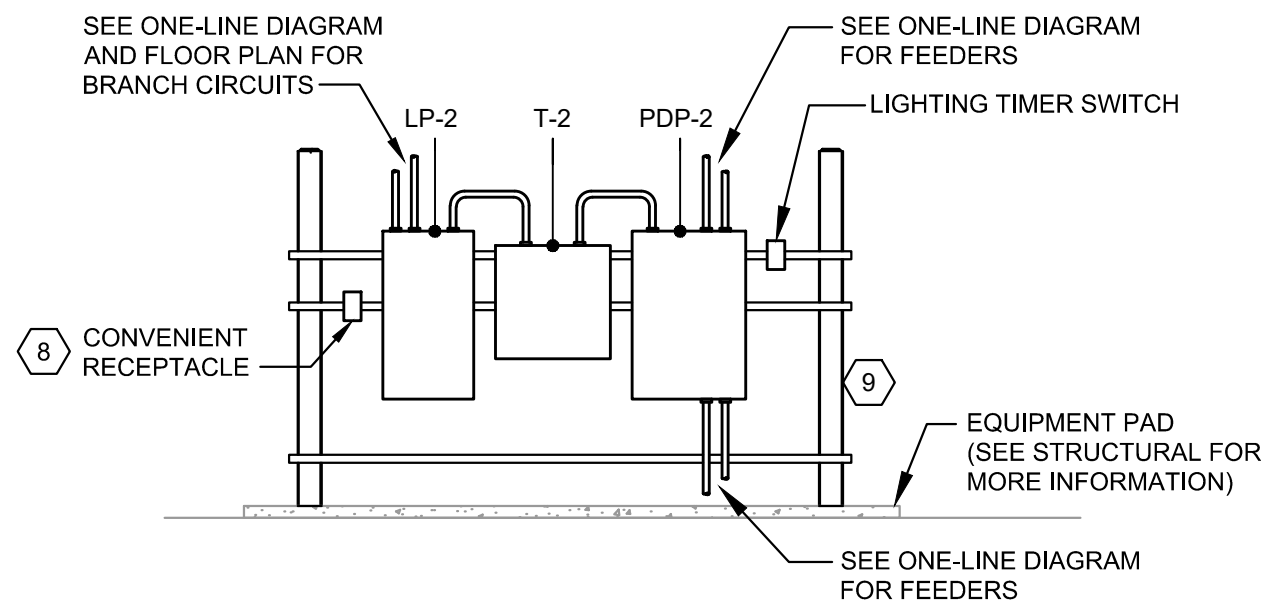
1. SEE ONE-LINE DIAGRAM ON SHEET E-601 FOR FEEDER INFORMATION.
2. CONFORM TO THE UTILITY (FREESTATE ELECTRIC COOPERATIVE) SPECIFICATIONS AND STANDARD FOR UTILITY TRANSFORMER, METER, AND UNDERGROUND MV CABLING. CONTRACTOR TO COORDINATE WITH FREESTATE COOPERATIVE FOR SPECIFICATION AND STANDARDS.

KEYNOTES:

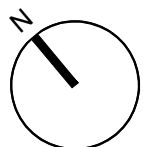
1. PROVIDE PRIMARY FEEDER CONDUCTORS IN 5" SCH 80 PVC FROM CONNECTION POINT ON POLE TO TRANSFORMER PRIMARY SIDE COMPARTMENT. USE 36" RADIUS ELBOWS. PROVIDE WARNING TAPE @ 18" BELOW GRADE. PROVIDE 2500 POUND PULP ROPE.
2. PROVIDE MAIN SERVICE FEEDER FROM TRANSFORMER TO PCP-1. PROVIDE SLEEVES AT PUMP STATION WALL AND FLOOR. PROVIDE WARNING TAPE @ 18" BELOW GRADE.
3. PROVIDE TRANSFORMER PAD PER FREESTATE ELECTRIC COOPERATIVE REQUIREMENTS.
4. PROVIDE METER ON TRANSFORMER ACCORDING TO FREESTATE ELECTRIC COOPERATIVE SPECIFICATION AND STANDARD.
5. SEE SITE PLAN ES102 FOR SITE MEDIUM VOLTAGE LOOP FEEDER.
6. POWER AND CONTROL WIRING IN CONDUIT TO OPERATOR. ROUTE POWER AND CONTROL WIRING IN SEPARATE CONDUIT.
7. PROVIDE 3" SCH 80 OVC (EMPTY) CONDUIT STUBBED OUT OF PCP-2 INTO ACCESS AREA FOR FUTURE TELECOM CONNECTION.
8. PROVIDE DOUBLE DUPLEX GFI RECEPTACLE IN WEATHERPROOF ENCLOSURE AND MOUNT ON EQUIPMENT STAND.
9. PROVIDE EQUIPMENT STAND FOR MOUNTING.



C4 ELECTRICAL SERVICE ELEVATION
SCALE: NTS



C5 ELECTRICAL EQUIPMENT ELEVATION
SCALE: NTS



0 4' 8' 20' 32'



SCALE: $\frac{3}{32}" = 1'-0"$



US Army Corps
of Engineers®

[illegible]

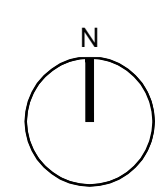
 Stanley Consultants inc. GEO - Stanley North America 1	U.S. ARMY CORPS OF ENGINEERS	DESIGNED BY:	ISSUE DATE:
	KANSAS CITY DISTRICT	A. ADAM	07/24/20
	801 E. 12TH STREET	KANSAS CITY, MO 64108	PROJECT NO.:
		A. ALOYSIUS	W91ZD02R04021
		CHECKED BY:	CONTRACT NO.:
		J. COOK	TBD
	SUBMITTED BY:		
	D. HOLMAN		
	SCALE:		
	ANSI D		

**FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS**

**ELECTRICAL SITE PLAN
PUMP STATION #2**

SHEET ID

ES104



SCALE: $\frac{1}{8}" = 1'-0"$

FINAL SUBMITTAL

G

F

E

D

C

B

A

KEYNOTES:

1. FIXTURE TYPE A1: 12" LED SQUARE WET LOCATION CANOPY FIXTURE, 4000K, 7200 LUMENS, 50W, 120V (UNIVERSAL VOLTAGE).
2. PCP PAD DIMENSIONS ARE BASED ON "BASIS OF DESIGN" MANUFACTURER'S DIMENSIONS. FINAL PAD SIZE AND EXACT CONDUIT OPENINGS/SLEEVE LOCATIONS SHALL BE VERIFIED BY CONTRACTOR AND BASED ON SUBMITTED/APPROVED SHOP DRAWINGS OF PUMP CONTROL PANEL.
3. SEE MECHANICAL DRAWING FOR FLOAT SWITCH ELEVATION.
4. PROVIDE TIMER SWITCH, SPRING WOUND, 0-60MIN, 120VAC FOR LIGHTING CONTROL IN WEATHERPROOF ENCLOSURE.
5. PROVIDE PHOTOCELL ON ROOF FOR LIGHTING CONTROL. CONNECT PHOTOCELL IN SERIES WITH TIMER SWITCH TO TURN THE LIGHT OFF BY TIMER SWITCH AFTER A PRESET/DIAL TIME.

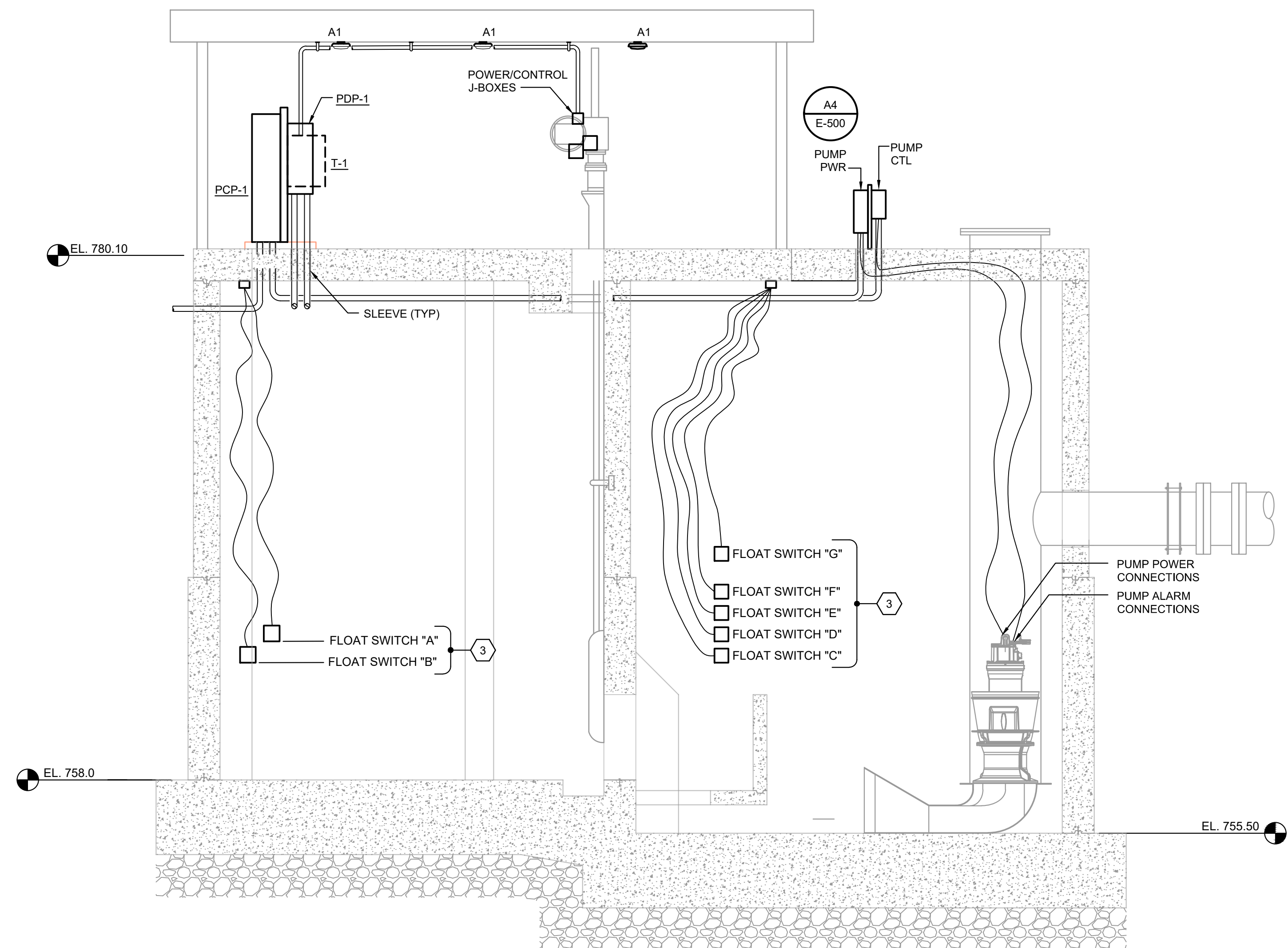
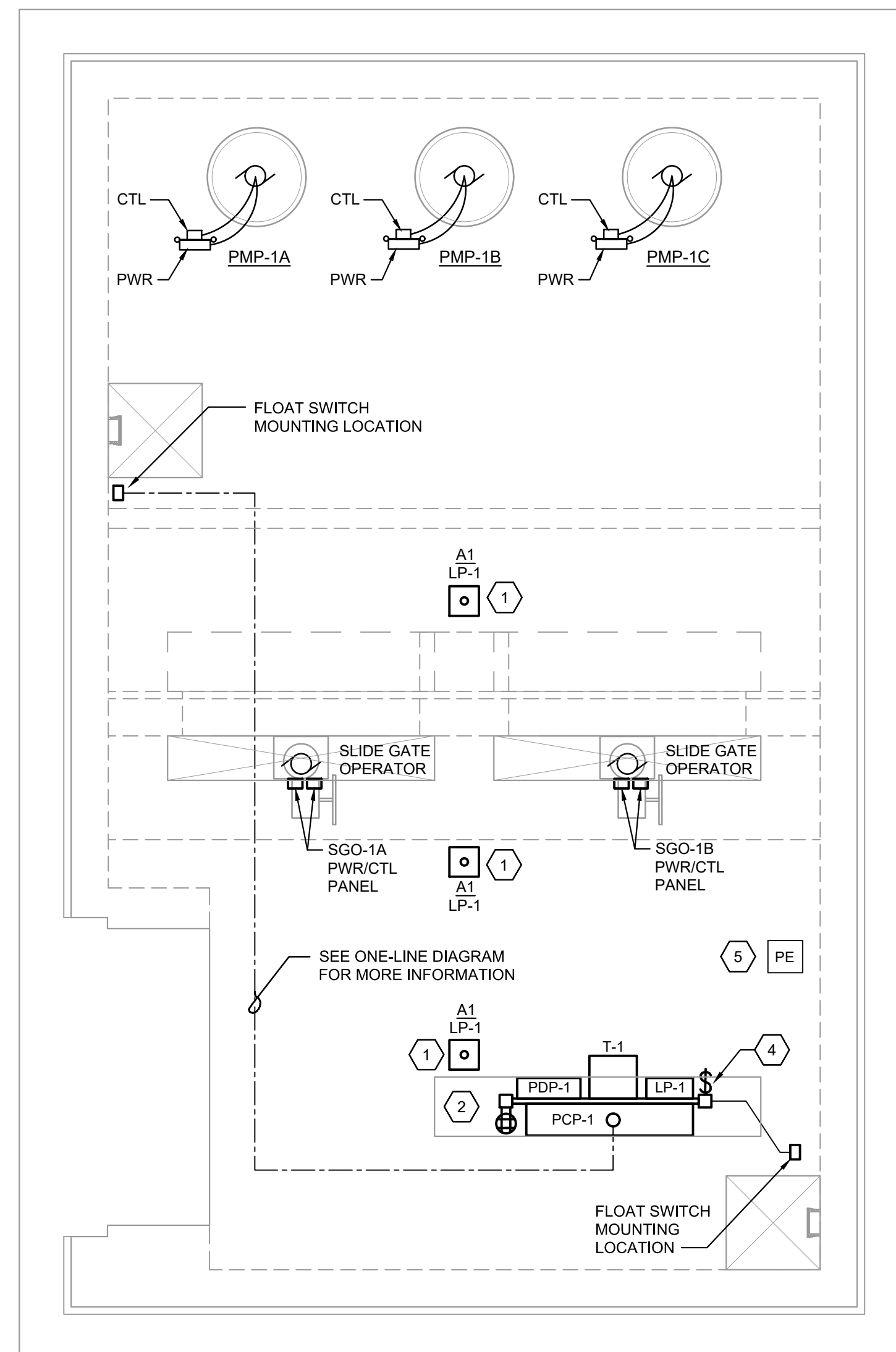
[illegible]

07/24/20	SOLICITATION NO.: W912DQ20R4021	
A. ADAM	DRAWN BY: A. ALOYSIUS	
	CHECKED BY: J. COOAN	
	SUBMITTED BY: W. HOLMAN	
	SIZE:	
	ANSI D	

U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT
601 E. 12TH STREET
KANSAS CITY, MO. 64106

FORT LEAVENWORTH FLOOD REPAIRS
 FORT LEAVENWORTH
 FORT LEAVENWORTH, KS

SHEET ID
E-101



C1 VARIOUS TAP/REBAR CONNECTIONS DETAIL
SCALE: NTS

C3 STEEL COLUMN GROUNDING DETAIL
SCALE: NTS

C4 PULLBOX/ENCLOSURE SIDE VIEW DETAIL
SCALE: NTS

A1 DOWNLOAD CONNECTION TO GROUND LOOP DETAIL
SCALE: NTS

A3 GUARD RAIL GROUND DETAIL
SCALE: NTS

A4 CONDUIT STUB-UP TO PULLBOX/ENCLOSURE DETAIL
SCALE: NTS



**US Army Corps
of Engineers®**

[illegible]

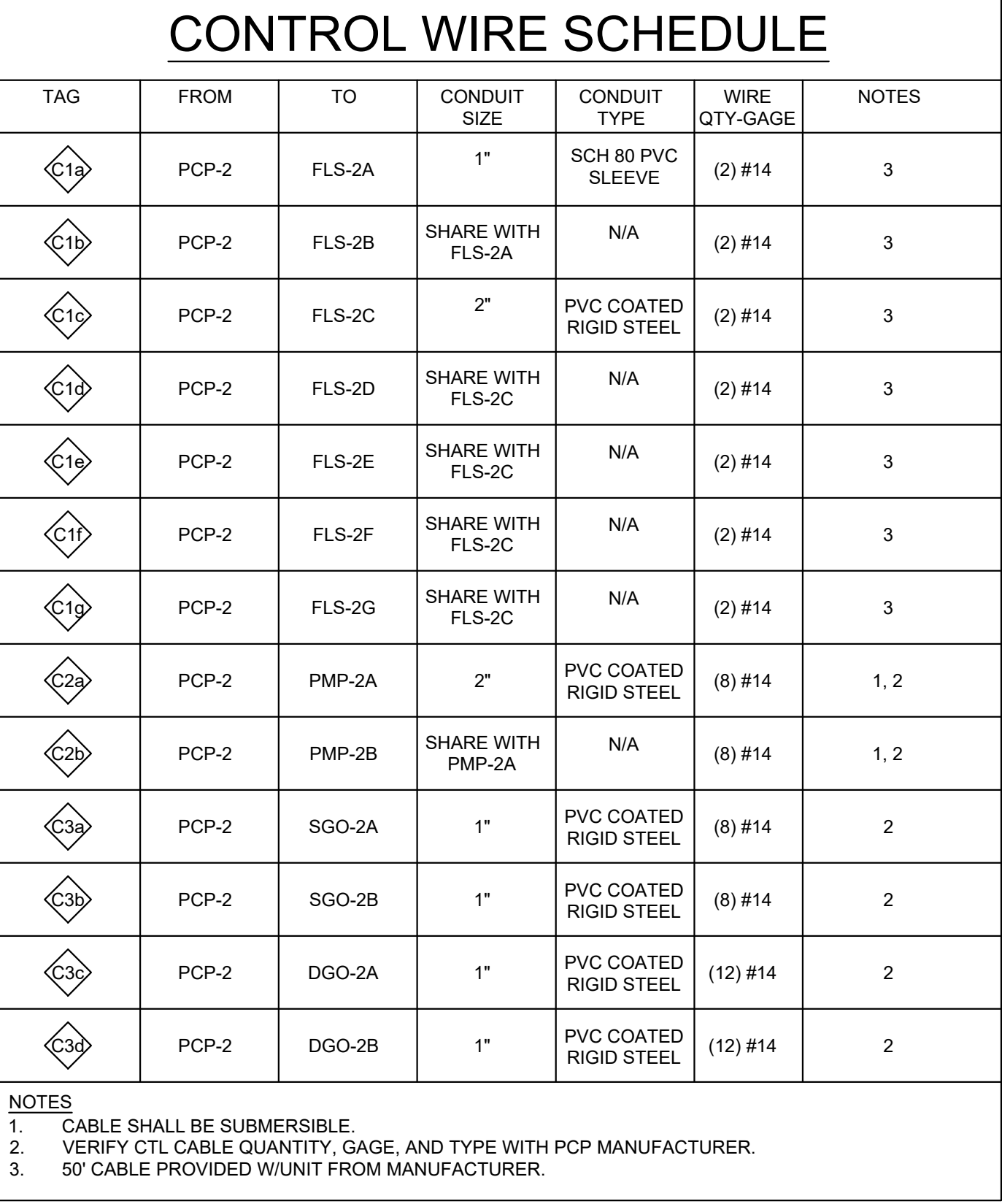
 Stanley Consultants INC.	U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT 1115 WEST 27TH STREET KANSAS CITY, MO 64108	DESIGNED BY: A. ADAM	ISSUE DATE: 07/24/02
		DRAWN BY: A. ALOYSIUS	SOLICITATION NO.: W012DQ20R4021
		CHECKED BY: S. GOODMAN	CONTRACT NO.: TBD
		APPROVED BY: W. HOLMAN	
		SIZE:	

**FORT LEAVENWORTH FLOOD REPAIRS
FORT LEAVENWORTH
FORT LEAVENWORTH, KS**

ELECTRICAL DETAILS

SHEET ID

E-500



- A. SECURE CONDUIT LOCATED BELOW TOP SLAB IN INTAKE WELL AND PUMP WELL TO CEILING OF STRUCTURE USING APPROVED METHODS.
- B. ANY POWER OR CONTROL CABLE EXPOSED TO SUNLIGHT SHALL BE UV RATED FOR OUTDOOR INSTALLATION.
- C. REFER TO UTILITY (FREESTATE) SPECIFICATIONS FOR UTILITY TRANSFORMER, METER AND UNDERGROUND CABLES.

1. ELECTRICAL CONTRACTOR TO PROVIDE PAD, GROUNDING, AND SECONDARY CONDUIT/WIRE PER UTILITY REQUIREMENTS AND ONE-LINE DIAGRAM. SEE DETAIL C4 ES102.
2. INSTALL METER AND METER SOCKET ON TRANSFORMER PER FREESTATE ELECTRIC COOPERATIVE REQUIREMENTS. SEE ES102.
3. MINICAS PUMP ALARM/MONITOR MODULE; VERIFY WIRING REQUIREMENTS. PROVIDE A CELL DIALER FOR ALARM REPORTING.
4. PUMP CONTROL PANEL (PCP) SHALL BE MCC CONSTRUCTION TYPE AND NEMA 3R STAINLESS STEEL, POWDER-WHITE PAINTED (INSIDE AND OUT) COMPARTMENTAL CONSTRUCTION PUMP CONTROL PANEL. PCP SHALL HAVE CONTROLS FOR PUMPS AND SLIDE GATE ACTUATORS. FLOAT SWITCHES SHALL CONTROL OPERATION OF PUMPS AND PUMP STATION GATES. PCP SHALL HAVE SPACE FOR FUTURE TELEMETRY ADDITION. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SEQUENCE OF OPERATIONS AND MORE INFORMATION.
5. FLOOR MOUNTED, FREE-STANDING ENCLOSURE.
6. MOUNTED TO EQUIPMENT STAND FRAME.
7. SEE SPECIFICATION FOR REQUIREMENTS OF SURGE PROTECTIVE DEVICE (SPD).
8. MOTOR STARTER SIZED PER MANUFACTURER'S RECOMMENDATIONS.
9. FINAL CIRCUIT BREAKER SIZES WILL BE SIZED BY THE PUMP CONTROL PANEL MANUFACTURER.
10. PROVIDE METERING CAPABLE OF REPORTING EVERY 15 MINUTES WITH REQUIRED DATA AND MEETS EPCAT 2005 LAW. METER SHALL BE CAPABLE OF REPORTING DATA REMOTELY THROUGH DDC OR SCADA SYSTEM FOR FUTURE REPORTING.
11. PROVIDE GFI RECEPTACLE IN WEATHERPROOF ENCLOSURE AND MOUNT ON EQUIPMENT STAND NEXT TO LP PANEL.

Jul 29, 2020 - 1:48pm LEAVENWORTH_E-602.dwg

