



WASHINGTON DEPARTMENT OF
FISH AND WILDLIFE

BIG BEND WILDLIFE AREA – BIG BEND UNIT
FENCING
DS:R188:2021-1

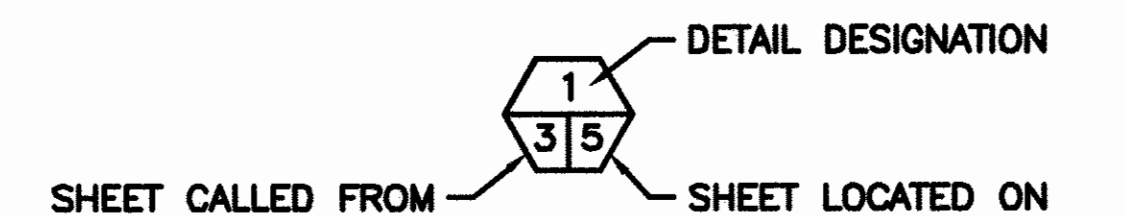
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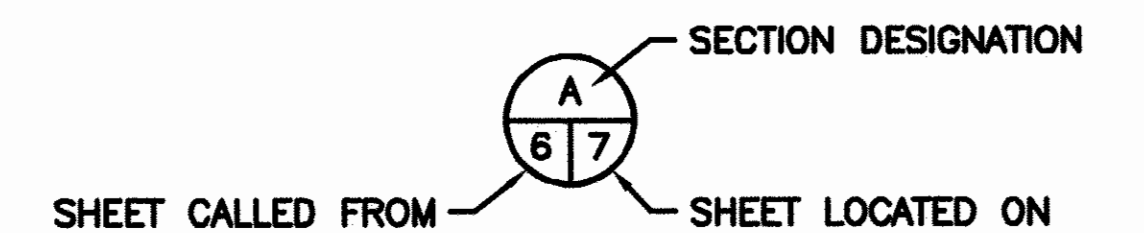
ABBREVIATIONS

- ALUM – ALUMINUM
 L – ANGLE
 APPROX – APPROXIMATELY
 BM – BENCH MARK
 CL – CENTERLINE
 CLR – CLEARANCE
 CONC – CONCRETE
 DIA,Ø – DIAMETER
 ELEV – ELEVATION
 FTG – FOOTING
 GALV – GALVANIZED
 ID – INSIDE DIAMETER
 MFG – MANUFACTURER'S
 MISC – MISCELLANEOUS
 OC – ON CENTER
 OD – OUTSIDE DIAMETER
 PL – PLATE
 REQ'D – REQUIRED
 SEC – SECTION
 SPEC'S – PROJECT SPECIFICATIONS
 SQ – SQUARE
 TYP – TYPICAL

SHEET SYMBOLS



DETAIL



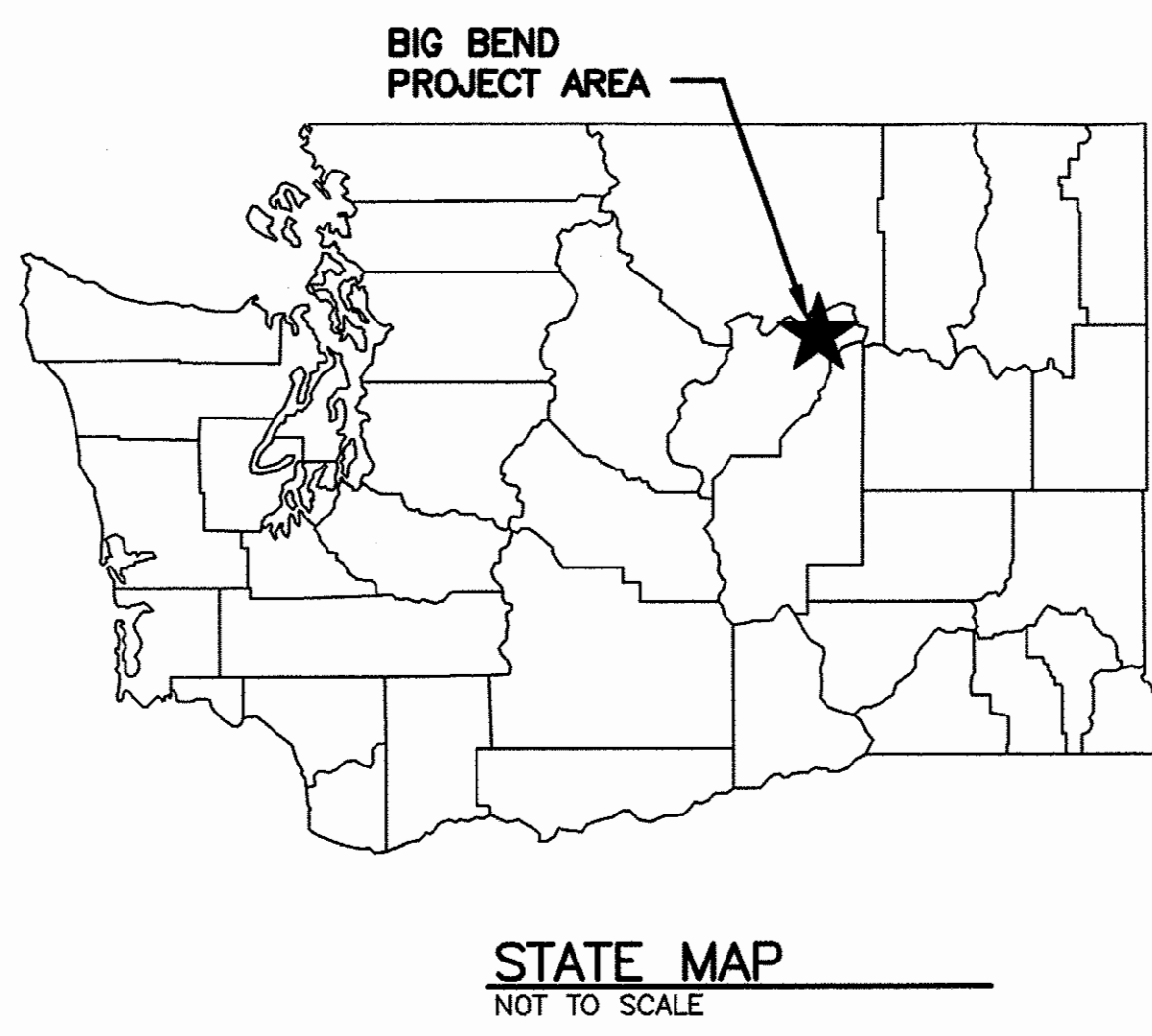
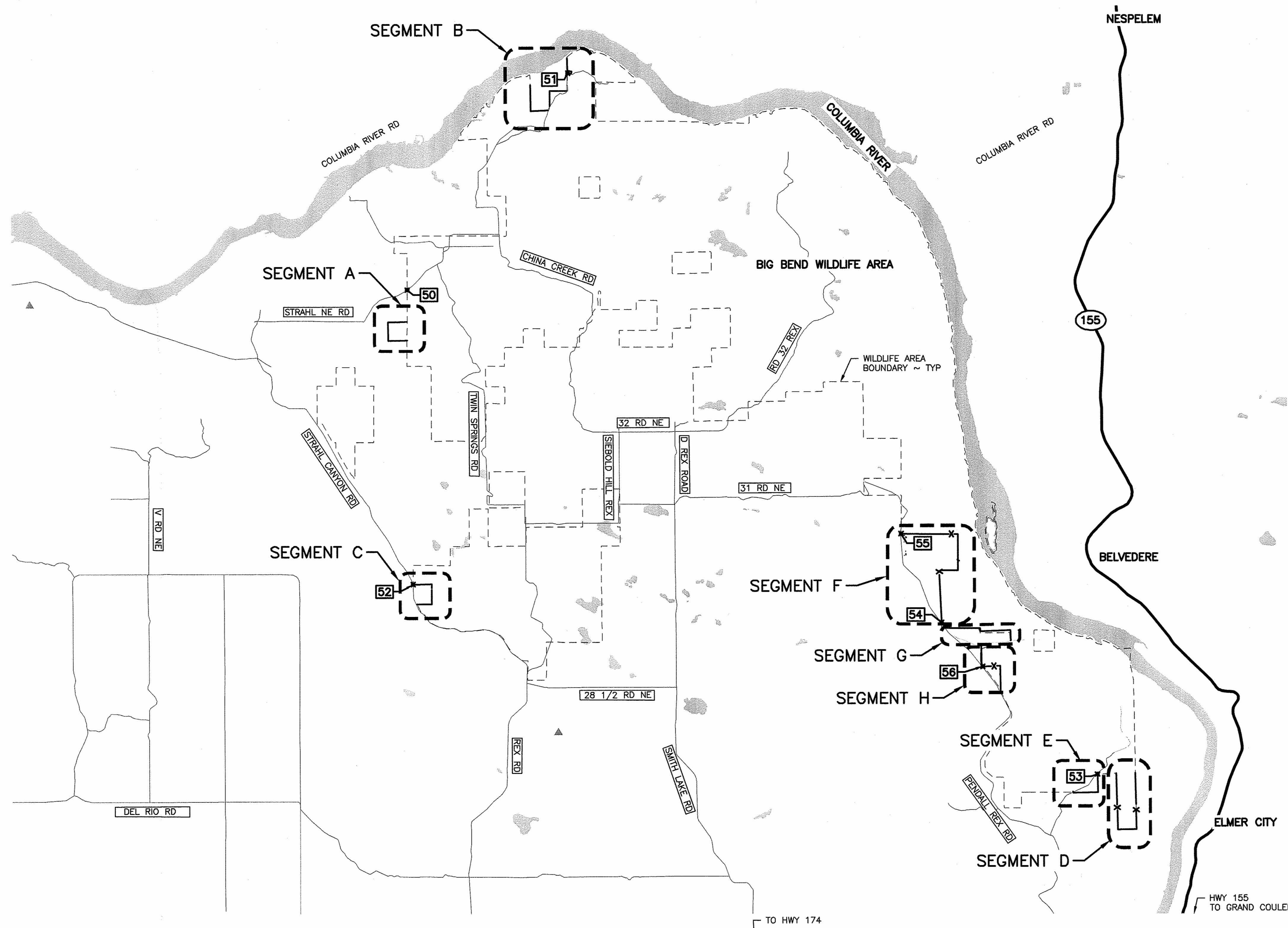
SECTION



NOTE REFERENCE

REFERENCE DESIGNATION TO A
NOTE, A PART, OR MATERIAL IN A
SCHEDULE/TABLE

PROJECT NO. DS:R188:2021-1	
SHEET 1	OF 11



FENCE LENGTHS			
SEGMENT	MILES	FEET	FENCE TO BE REMOVED (FT)
A	0.75	3,955	1,300
B	1.35	7,137	1,173
C	0.69	3,650	0
D	1.70	9,024	0
E	0.59	3,121	713
F	2.17	11,500	12,000
G	1.12	5,940	2,974
H	0.85	4,490	4,337
TOTAL	9.22	48,817	22,497

ACCESS LOCATION POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
50	48.105655	-119.180025	SEGMENT A - ACCESS
51	48.146580	-119.132277	SEGMENT B - ACCESS
52	48.048947	-119.180324	SEGMENT C - ACCESS
53	48.009304	-118.985114	SEGMENT D & E - ACCESS
54	48.039229	-119.028793	SEGMENT F - ACCESS
55	48.056469	-119.039758	SEGMENT F & G - ACCESS
56	48.030548	-119.017236	SEGMENT H - ACCESS

DRIVING DIRECTIONS FROM EAST WENATCHEE:

FOLLOW SUNSET HWY WA-28 NORTH TO US-97

FOLLOW US-97 N TO McNEIL CANYON RD NW (35.7 MI)

CONTINUE ON McNEIL CANYON RD NW TO WA-172 E (11.4 MI)

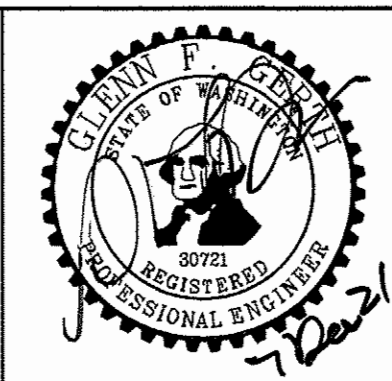
FOLLOW WA-172 E, WA-17 N AND WA-174 E TO E REX RD/SMITH LAKE RD (43.4 MI)

CONTINUE ON SMITH LAKE RD. TAKE CHINA CREEK RD TO CHINA CREEK REX RD (12.2 MI)

- SEGMENT A - T. 30 N., R. 29 E., SECTION 16
- SEGMENT B - T. 31 N., R. 29 E., SECTION 35
- SEGMENT C - T. 30 N., R. 29 E., SECTION 33
- T. 29 N., R. 29 E., SECTION 04
- SEGMENT D - T. 29 N., R. 31 E., SECTION 18
- T. 29 N., R. 30 E., SECTION 13
- T. 29 N., R. 30 E., SECTION 24
- SEGMENT E - T. 29 N., R. 30 E., SECTION 13
- SEGMENT F - T. 30 N., R. 30 E., SECTION 34
- T. 29 N., R. 30 E., SECTION 03

PROJECT AREA VICINITY MAP
SCALE: 1" = 4000'

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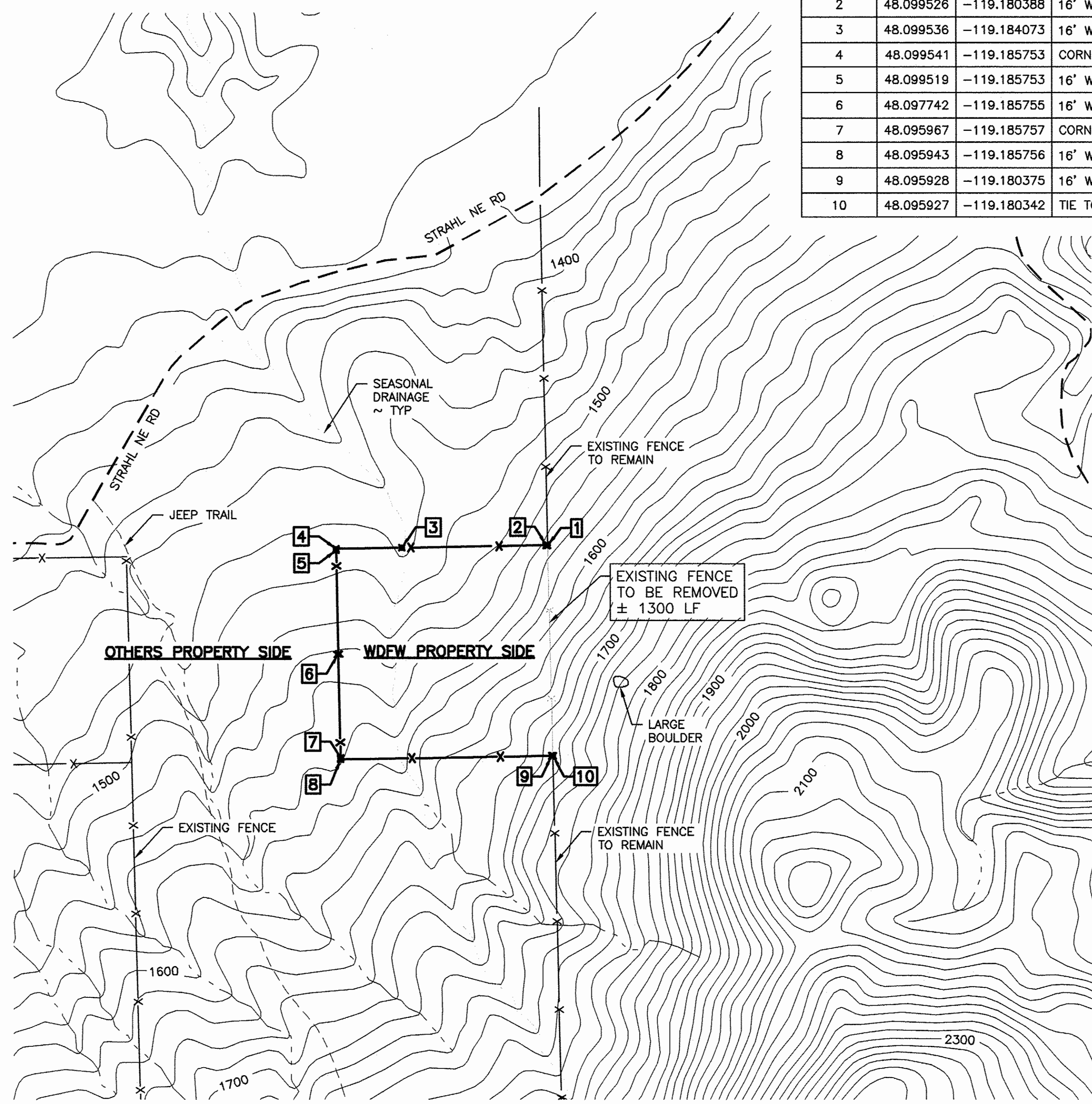


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			DATE: 7/20/21
PROGRAM			DATE: 012/07/2021

DESIGNED BY R. MOSBERGER
CHECKED BY N. WHITE
DRAWN BY J. LONG
DATE 012/07/2021

BIG BEND WILDLIFE AREA - BIG BEND UNIT
FENCING
STATE & PROJECT AREA VICINITY MAPS

PROJECT NO. DS:R188:2021-1	
SHEET 2	OF 11



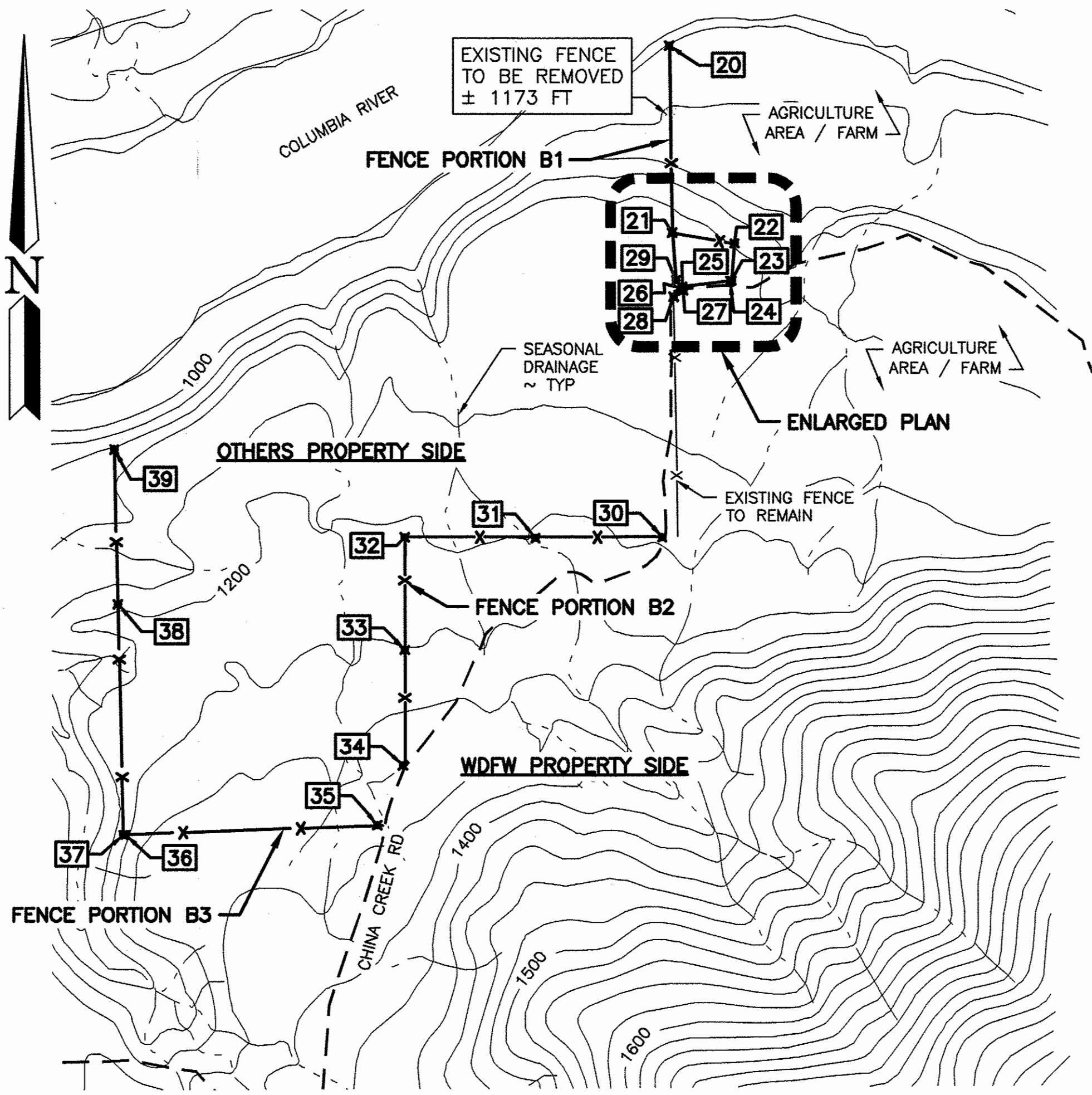
SEGMENT A
 1"=500' 22x34
 0 100 300 500 1000 1"=1000' 11x17
 EXISTING FENCE TO BE REMOVED APPROXIMATE 1300 FT
 APPROXIMATE LENGTH 3955 FT = 0.75 MILES

POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
1	48.099525	-119.180355	TIE TO EXISTING
2	48.099526	-119.180388	16' WIDE DROP GATE
3	48.099536	-119.184073	16' WIDE DROP GATE
4	48.099541	-119.185753	CORNER BRACE
5	48.099519	-119.185753	16' WIDE DROP GATE
6	48.097742	-119.185755	16' WIDE DROP GATE
7	48.095967	-119.185757	CORNER BRACE
8	48.095943	-119.185756	16' WIDE DROP GATE
9	48.095928	-119.180375	16' WIDE DROP GATE
10	48.095927	-119.180342	TIE TO EXISTING

NOTE: LOCATIONS ARE APPROXIMATE AND BASED OF AERIAL IMAGES & GPS. FIELD VERIFY ALL LOCATIONS OF EXISTING REMAINS OF FENCE, GATES, BREAKAWAY, CORNER BRACES & DRAWS

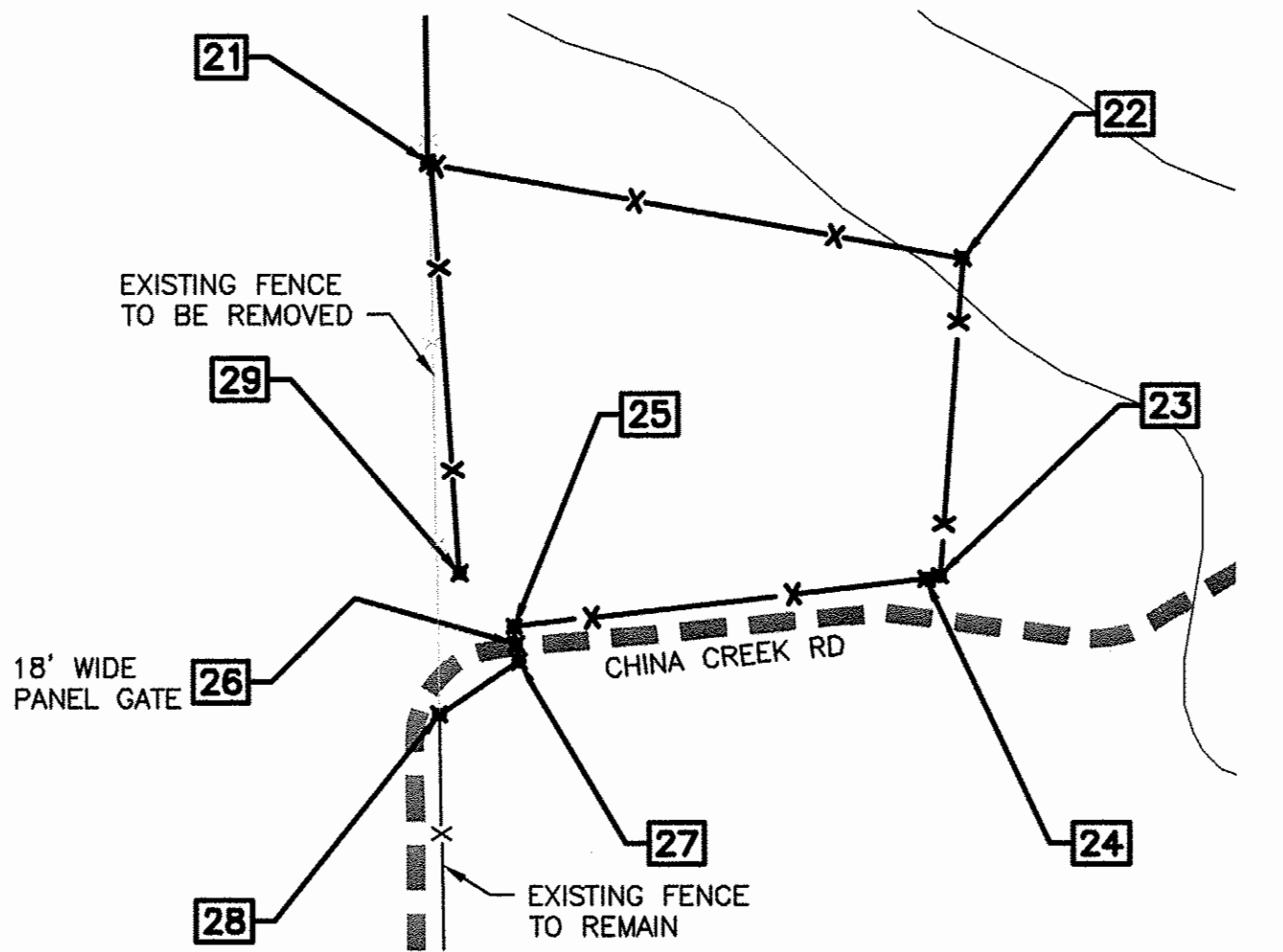
LEGEND

---	GRAVEL ROAD
- - - -	JEEP TRAIL
---	EXISTING MINOR CONTOURS
---	EXISTING MAJOR CONTOURS
-x-	EXISTING FENCE
-x-	EXISTING FENCE TO BE REMOVED
-x-	NEW FENCE



SEGMENT B
 1"=500' 22x34
 0 100 300 500 1000 1"=1000' 11x17
 EXISTING FENCE TO BE REMOVED APPROXIMATE 1173 FT
 FENCE PORTION B1 APPROXIMATE LENGTH = 1870 FT
 FENCE PORTION B2 APPROXIMATE LENGTH = 2252 FT
 FENCE PORTION B3 APPROXIMATE LENGTH = 3015 FT
 APPROXIMATE TOTAL LENGTH 7137 FT = 1.35 MILES

POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
20	48.149450	-119.132394	END BRACE
21	48.147055	-119.132413	CORNER BRACE
22	48.146895	-119.131227	CORNER BRACE
23	48.146422	-119.131295	CORNER BRACE
24	48.146418	-119.131325	4' WIDE PANEL GATE
25	48.146361	-119.132245	CORNER BRACE
26	48.146335	-119.132242	18' WIDE PANEL GATE
27	48.146309	-119.132236	CORNER BRACE
28	48.146233	-119.132416	TIE TO EXISTING
29	48.146442	-119.132364	END BRACE
30	48.143162	-119.132744	END BRACE
31	48.143188	-119.135172	16' WIDE DROP GATE
32	48.143235	-119.137674	CORNER BRACE
33	48.141785	-119.137723	16' WIDE DROP GATE
34	48.140311	-119.137809	CORNER BRACE
35	48.139551	-119.138325	CORNER BRACE
36	48.139502	-119.143156	16' WIDE DROP GATE
37	48.139502	-119.143196	CORNER BRACE
38	48.142457	-119.143198	16' WIDE DROP GATE
39	48.144441	-119.143200	END BRACE



ENLARGED PLAN
 1"=100' 22x34
 0 50 100 200 1"=200' 11x17

- NOTES:**
1. REPLACE EXISTING FENCE BETWEEN POINTS 20-29
 2. REMOVE EXISTING FENCE IN BETWEEN POINTS 21 & 22

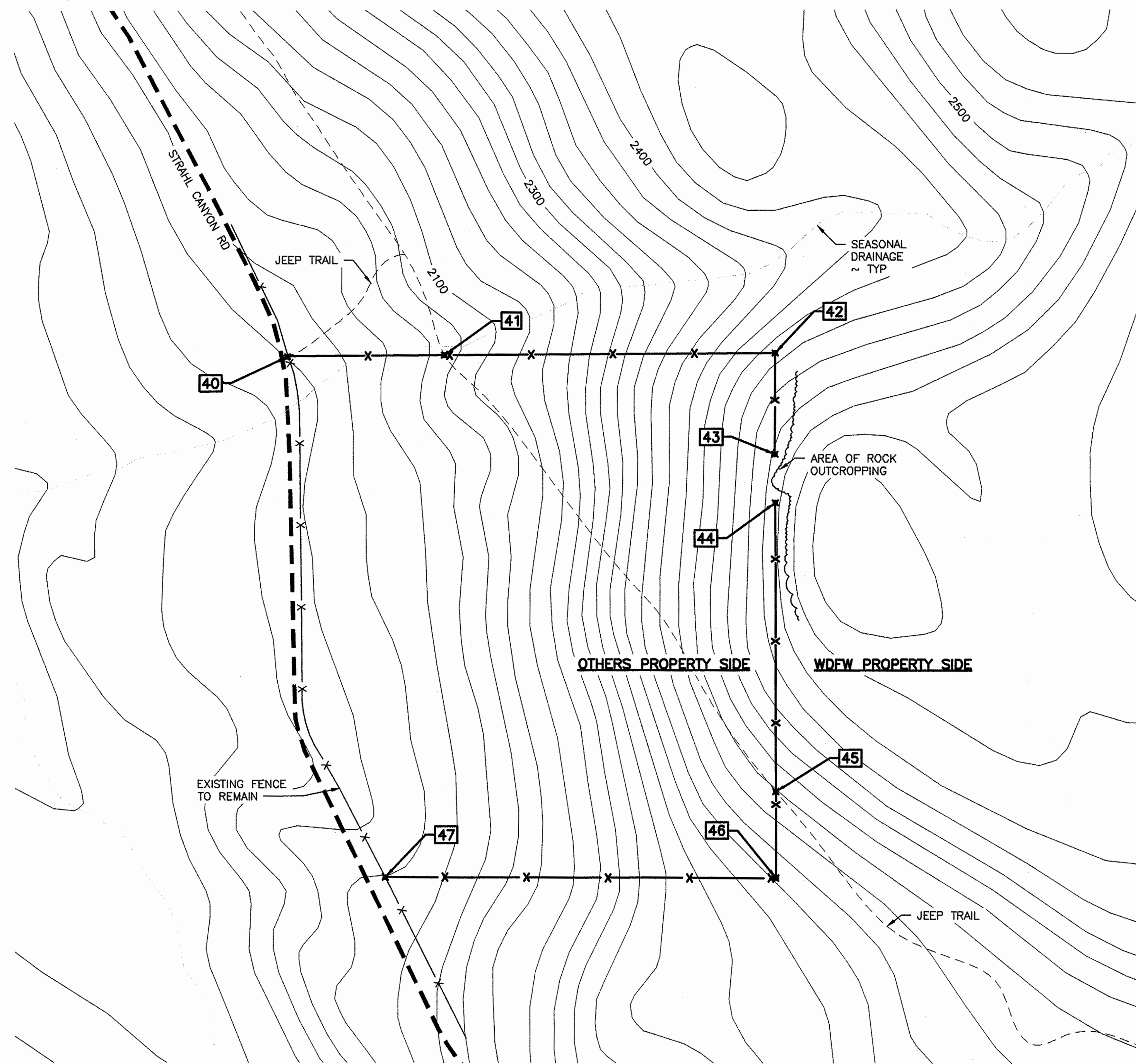
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



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		CHIEF ENGINEER	DATE: 7/20/21
		PROGRAM	DATE: 012/07/2021

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 CHECKED BY N. WHITE
 DRAWN BY J. LONG

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FENCING		SHEET OF	
SEGMENTS A & B - PLAN		3	11



POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
40	48.048944	-119.180325	TIE TO EXISTING
41	48.048930	-119.178592	16' WIDE DROP GATE
42	48.048893	-119.174947	CORNER BRACE
43	48.048147	-119.174978	ROCK FACE
44	48.047789	-119.174984	ROCK FACE
45	48.045665	-119.175044	16' WIDE DROP GATE
46	48.045025	-119.175063	CORNER BRACE
47	48.045092	-119.179372	TIE TO EXISTING

NOTE: LOCATIONS ARE APPROXIMATE AND BASED OF AERIAL IMAGES & GPS. FIELD VERIFY ALL LOCATIONS OF EXISTING REMAINS OF FENCE, GATES, BREAKAWAY, CORNER BRACES & DRAWS

LEGEND

- GRAVEL ROAD
- - - JEEP TRAIL
- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS
- x - EXISTING FENCE
- x - EXISTING FENCE TO BE REMOVED
- x - NEW FENCE

SEGMENT C

0 100 200 400 1"=200' 22x34
 1"=400' 11x17
 APPROXIMATE LENGTH 3650 FT = 0.69 MILES

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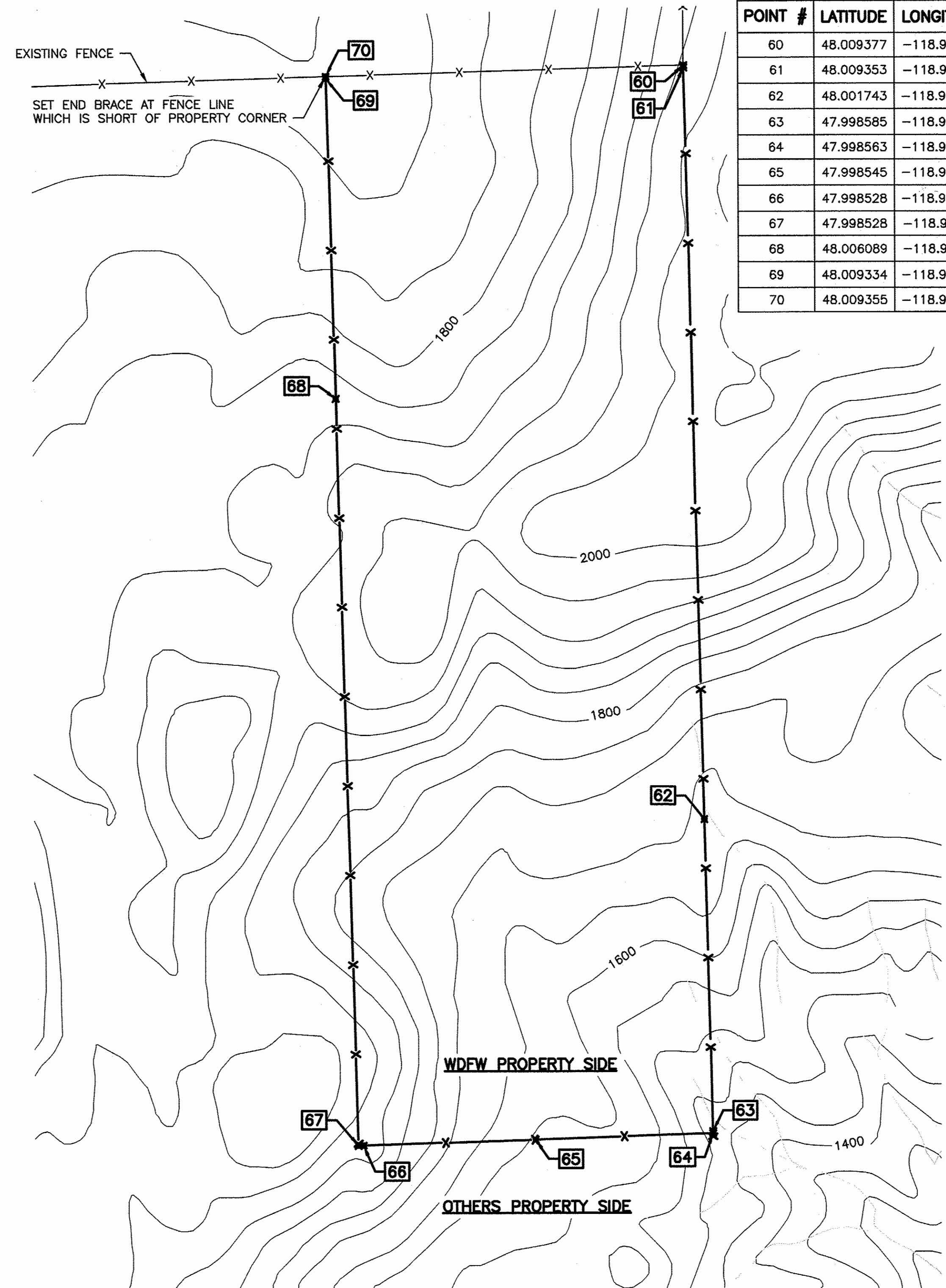
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			DRAWN BY J. LONG
			DATE 012/07/2021

BIG BEND WILDLIFE AREA – BIG BEND UNIT

FENCING
 SEGMENT C – PLAN

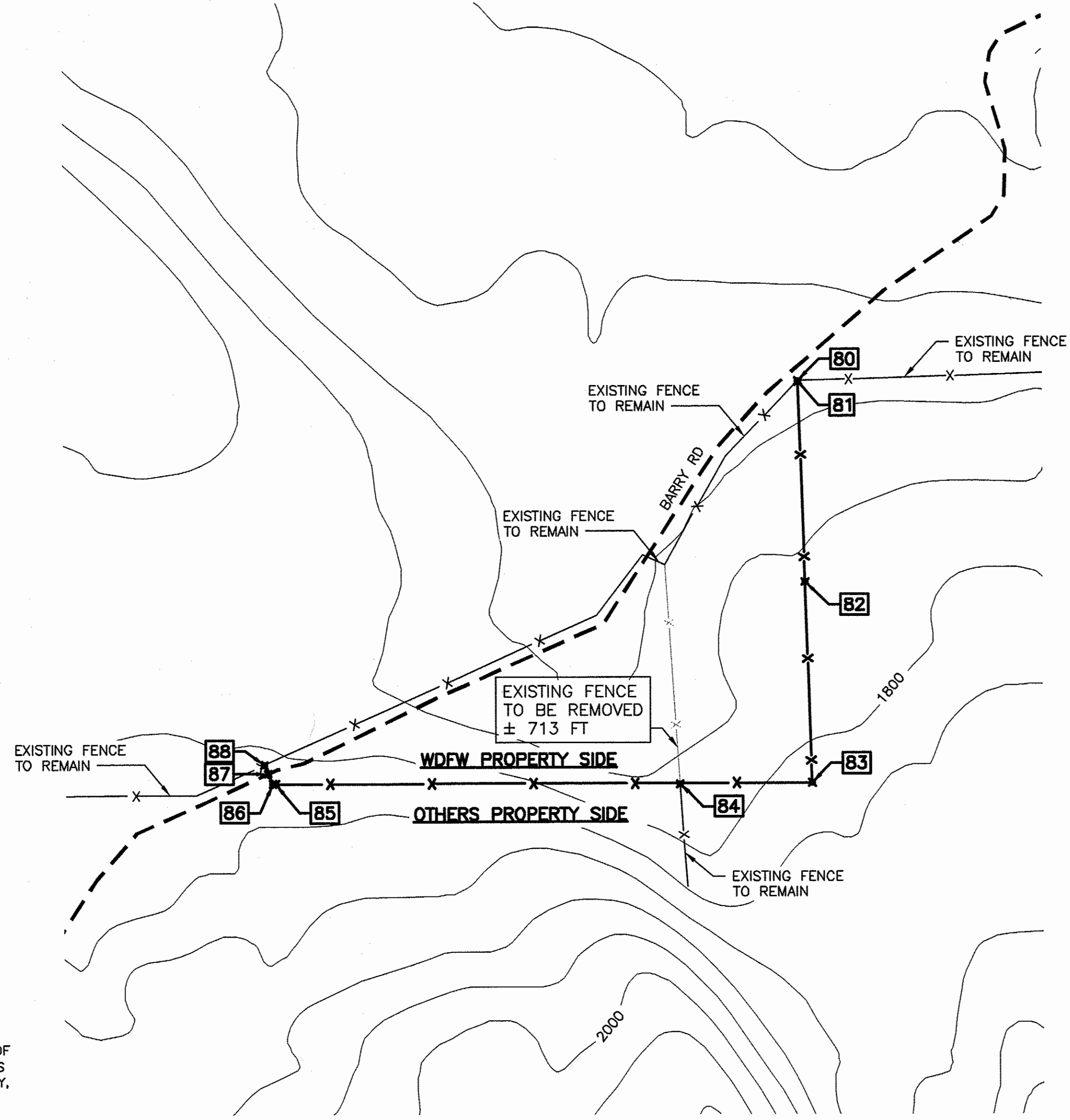
PROJECT NO.
 DS:R188:2021-1

SHEET OF
 4 11



POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
60	48.009377	-118.974321	TIE TO EXISTING
61	48.009353	-118.974321	16' WIDE DROP GATE
62	48.001743	-118.974313	16' WIDE DROP GATE
63	47.998585	-118.974309	16' WIDE DROP GATE
64	47.998563	-118.974309	CORNER BRACE
65	47.998545	-118.976985	16' WIDE DROP GATE
66	47.998528	-118.979584	16' WIDE DROP GATE
67	47.998528	-118.979661	CORNER BRACE
68	48.006089	-118.979701	16' WIDE DROP GATE
69	48.009334	-118.979717	16' WIDE DROP GATE
70	48.009355	-118.979718	TIE TO EXISTING

SEGMENT D
 1"=300' 22x34
 1"=600' 11x17
 APPROXIMATE LENGTH 9024 FT = 1.70 MILES



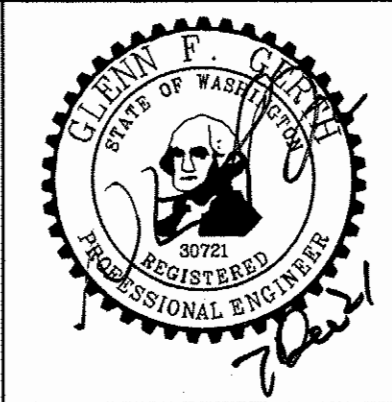
POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
80	48.009332	-118.985115	TIE TO EXISTING
81	48.009326	-118.985114	16' WIDE DROP GATE
82	48.007547	-118.985088	16' WIDE DROP GATE
83	48.005761	-118.985062	CORNER BRACE
84	48.005781	-118.986811	TIE TO EXISTING
85	48.005870	-118.992177	16' WIDE DROP GATE
86	48.005871	-118.992213	CORNER BRACE
87	48.005963	-118.992272	CATTLE GUARD
88	48.006042	-118.992320	TIE TO EXISTING

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- LEGEND**
- GRAVEL ROAD
 - JEEP TRAIL
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS
 - x- EXISTING FENCE
 - x- EXISTING FENCE TO BE REMOVED
 - x- NEW FENCE

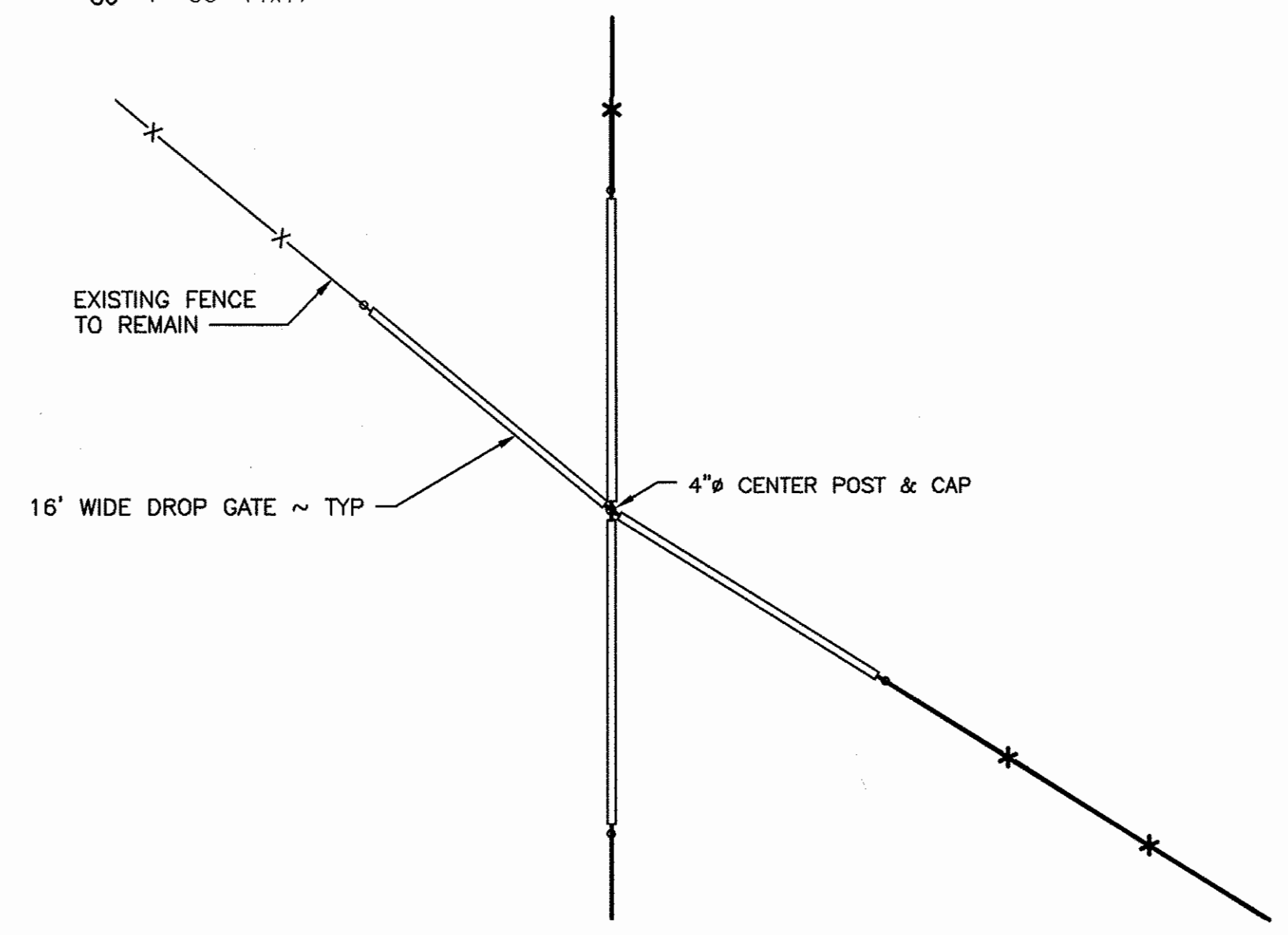
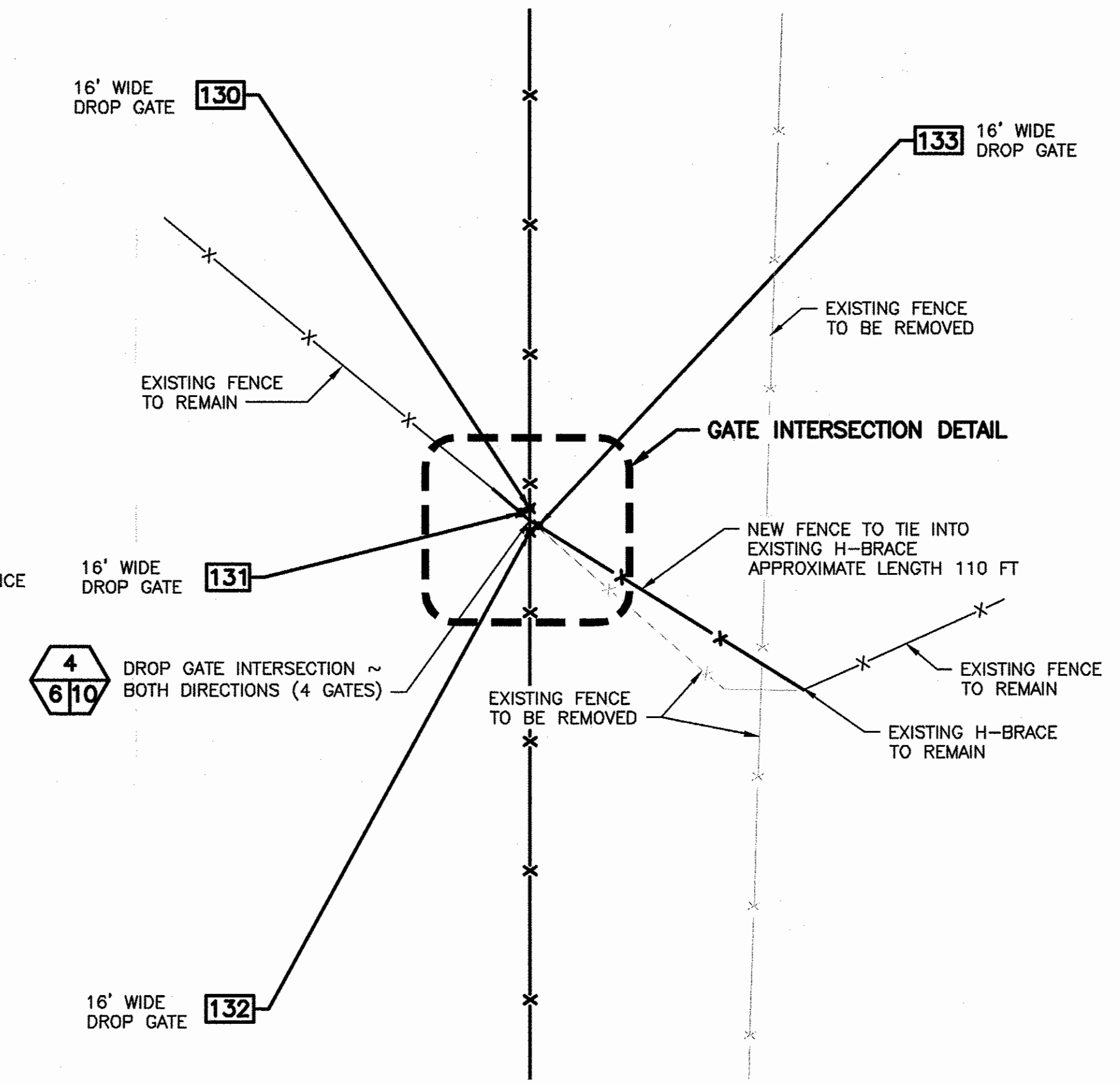
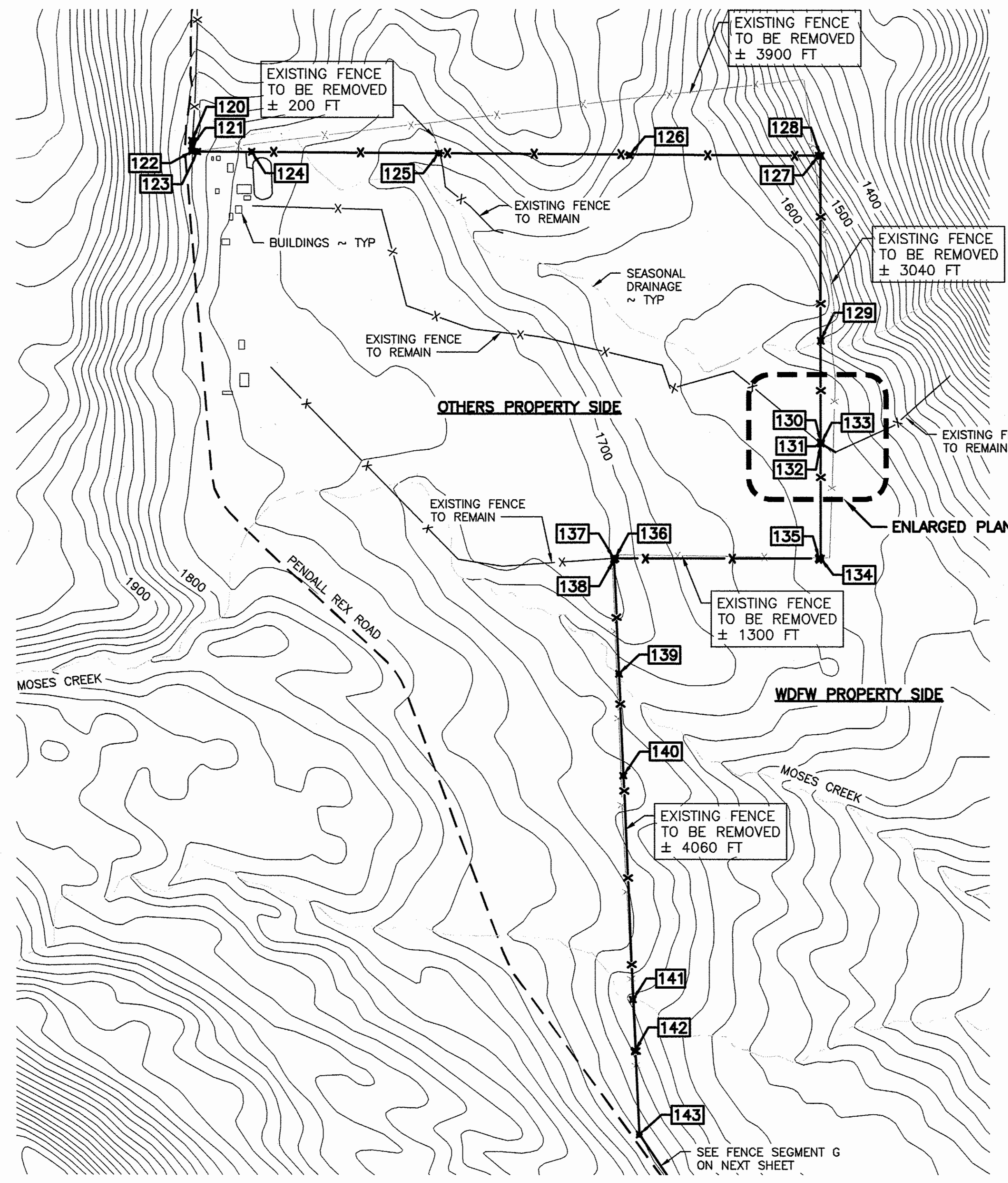
SEGMENT E
 1"=300' 22x34
 1"=600' 11x17
 EXISTING FENCE TO BE REMOVED APPROXIMATE 713 FT
 APPROXIMATE LENGTH 3121 FT = 0.59 MILES

WASHINGTON DEPARTMENT OF
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SEGMENTS D & E – PLAN		5 11



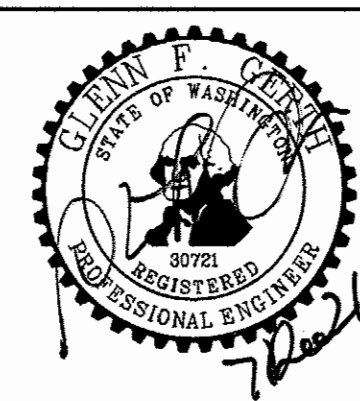
POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
120	48.056658	-119.039723	TIE TO EXISTING
121	48.056654	-119.039730	16' WIDE DROP GATE
122	48.056470	-119.039743	CORNER BRACE
123	48.056466	-119.039595	16' WIDE DROP GATE
124	48.056438	-119.038189	16' WIDE DROP GATE
125	48.056342	-119.033343	16' WIDE DROP GATE
126	48.056232	-119.028400	16' WIDE DROP GATE
127	48.056145	-119.023504	16' WIDE DROP GATE
128	48.056144	-119.023453	CORNER BRACE
129	48.052939	-119.023565	STREAM CROSSING
130	48.051175	-119.023627	16' WIDE DROP GATE
131	48.051171	-119.023640	16' WIDE DROP GATE
132	48.051153	-119.023628	16' WIDE DROP GATE
133	48.051159	-119.023615	16' WIDE DROP GATE
134	48.049157	-119.023698	CORNER BRACE
135	48.049158	-119.023749	16' WIDE DROP GATE
136	48.049243	-119.029025	16' WIDE DROP GATE
137	48.049243	-119.029058	CORNER BRACE
138	48.049221	-119.029057	16' WIDE DROP GATE
139	48.047239	-119.029001	STREAM CROSSING
140	48.045470	-119.028951	16' WIDE DROP GATE
141	48.041584	-119.028840	STREAM CROSSING
142	48.040694	-119.028815	16' WIDE DROP GATE
143	48.039239	-119.028755	CORNER BRACE

- NOTES:**
- LOCATIONS ARE APPROXIMATE AND BASED OF AERIAL IMAGES & GPS. FIELD VERIFY ALL LOCATIONS OF EXISTING REMAINS OF FENCE, GATES, BREAKAWAY, CORNER BRACES & DRAWS.
 - SEGMENT F FENCING TYPE TO BE 4 POINT BARBED WIRE 12.5 GAUGE AND BOTTOM WIRE TO BE SMOOTH.
 - GATE POINTS ARE LABELED TO APPROXIMATE CENTER LINE OF GATE.

- LEGEND**
- GRAVEL ROAD
 - JEEP TRAIL
 - EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS
 - x- EXISTING FENCE
 - x- EXISTING FENCE TO BE REMOVED
 - x- NEW FENCE

SEGMENT F
 0 100 300 500 1000
 1"=500' 22x34
 1"=1000' 11x17
 EXISTING FENCE TO BE REMOVED APPROXIMATE 12,000 FT = 2.27 MILES
 APPROXIMATE LENGTH 11500 FT = 2.17 MILES

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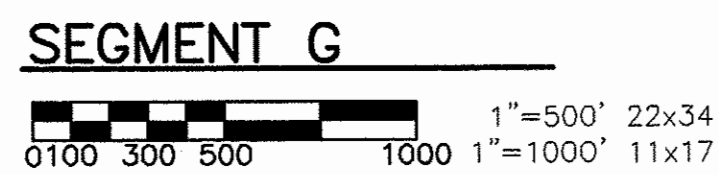
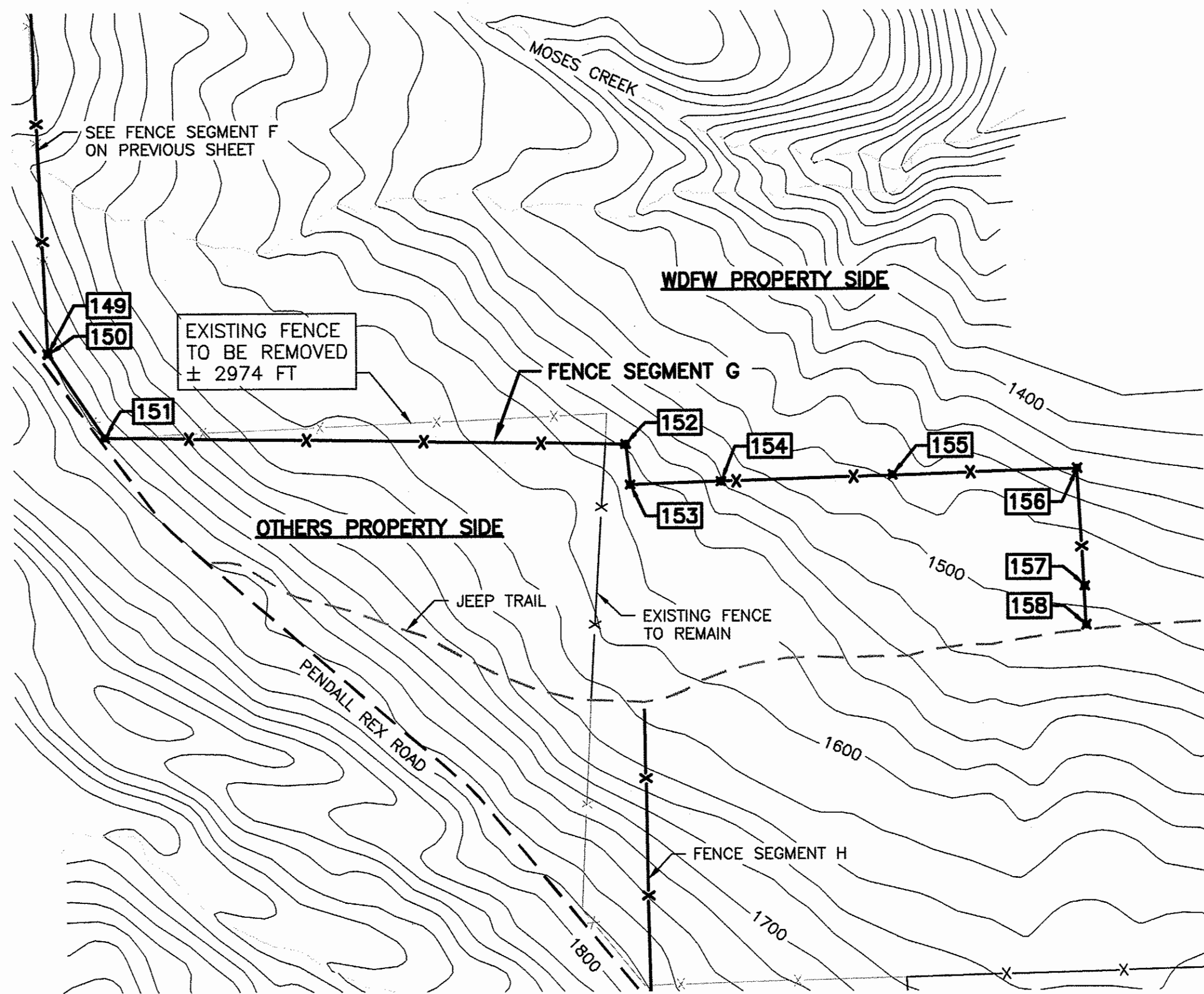


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CHIEF ENGINEER	<i>[Signature]</i>	DATE: 12/21	DESIGNED BY R. MOSBERGER
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			DRAWN BY J. LONG
			DATE 012/07/2021

BIG BEND WILDLIFE AREA – BIG BEND UNIT		PROJECT NO. DS:R188:2021-1	
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SEGMENT F – PLAN		6	11



POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
149	48.039239	-119.028755	TIE TO EXISTING
150	48.039231	-119.028747	WALK THRU GATE
151	48.038137	-119.027703	CORNER BRACE
152	48.037876	-119.017726	CORNER BRACE
153	48.037353	-119.017662	CORNER BRACE
154	48.037363	-119.015919	16' WIDE DROP GATE
155	48.037390	-119.012632	16' WIDE DROP GATE
156	48.037403	-119.009095	CORNER BRACE
157	48.035892	-119.009008	16' WIDE DROP GATE
158	48.035393	-119.009004	END BRACE

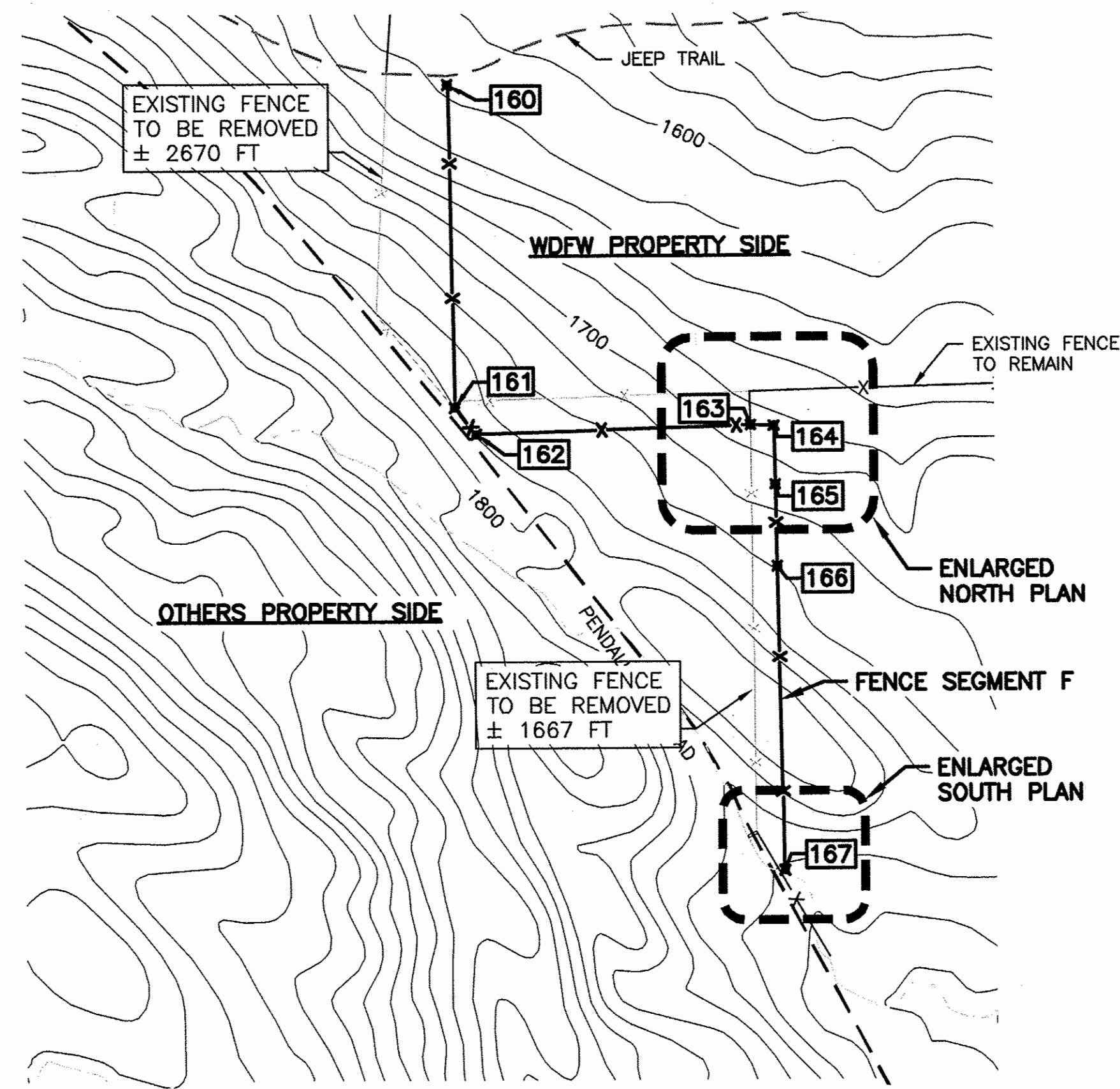


NOTE: SEGMENT G FENCING TYPE TO BE 4 POINT BARBED WIRE 12.5 GAUGE AND BOTTOM WIRE TO BE SMOOTH.
EXISTING FENCE TO BE REMOVED APPROXIMATE LENGTH = 2974 FT
APPROXIMATE TOTAL LENGTH 5940 FT = 1.12 MILES

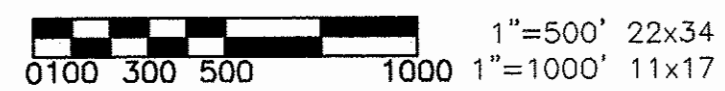
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LEGEND

- GRAVEL ROAD
- JEEP TRAIL
- EXISTING MINOR CONTOURS
- EXISTING MAJOR CONTOURS
- x- EXISTING FENCE
- x- EXISTING FENCE TO BE REMOVED
- x— NEW FENCE



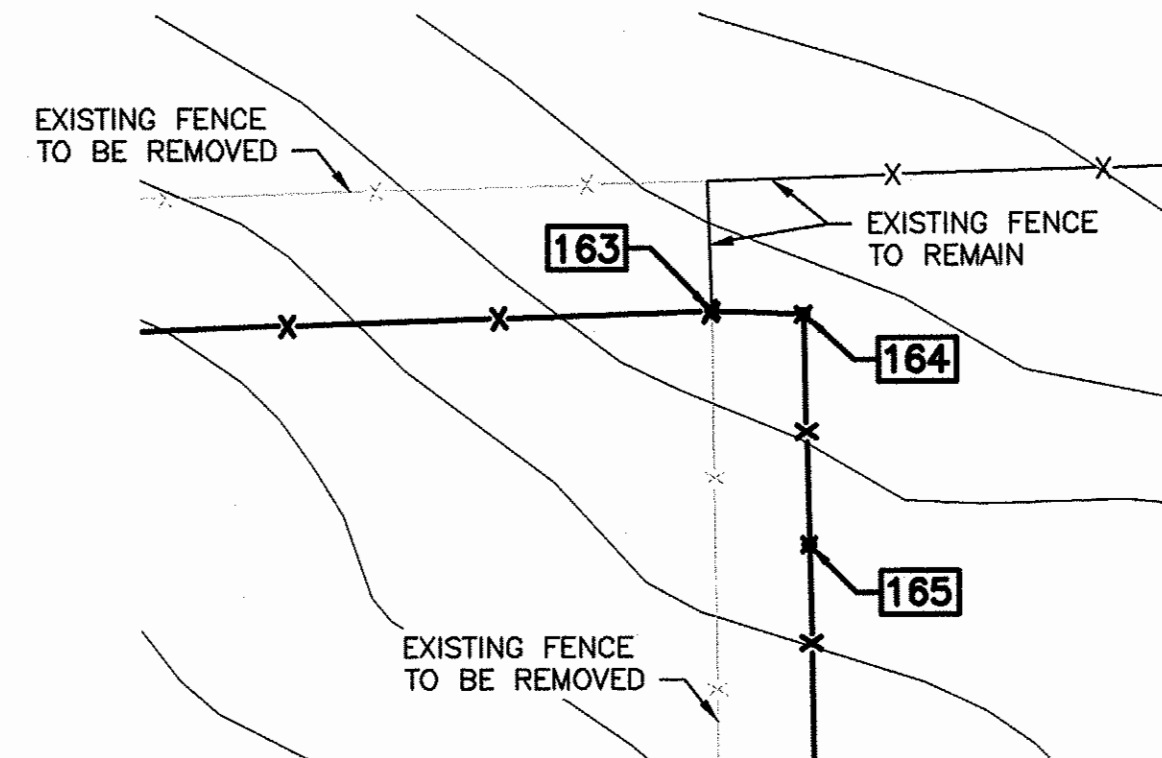
SEGMENT H



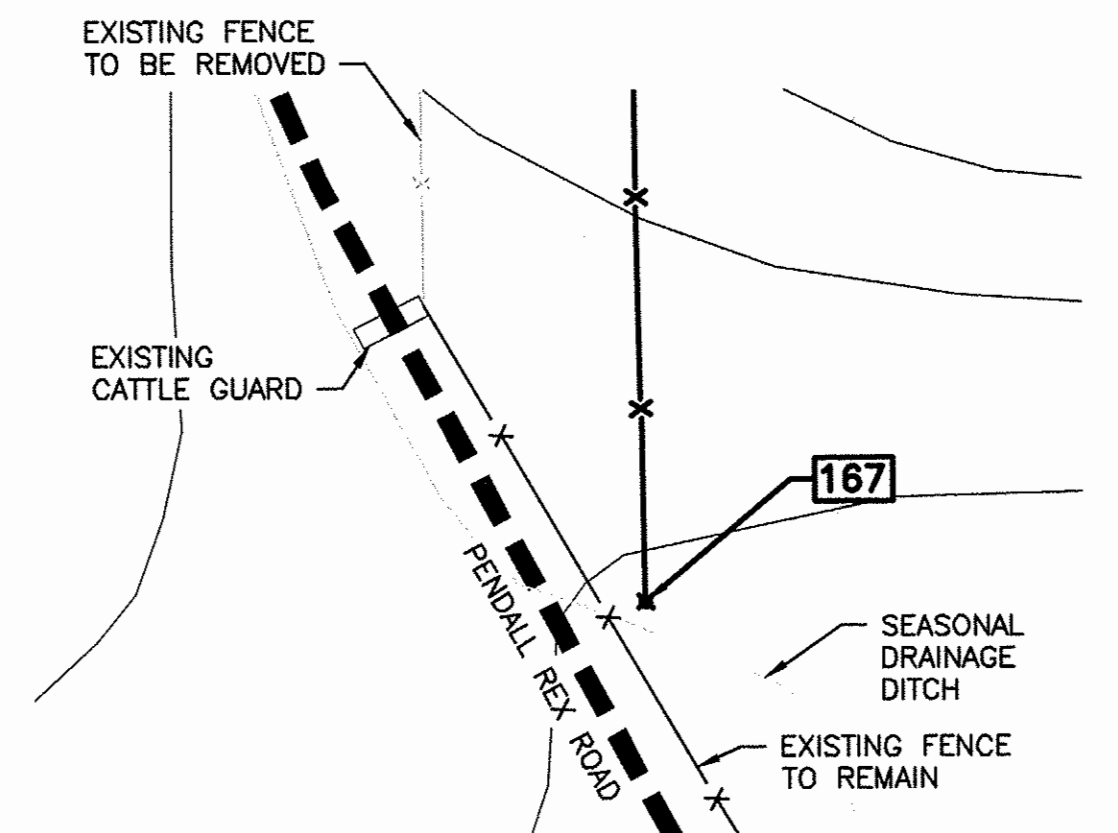
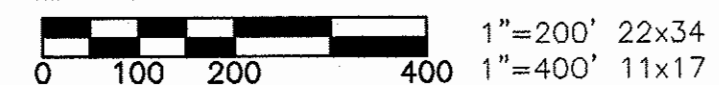
NOTE: SEGMENT H FENCING TYPE TO BE 4 POINT BARBED WIRE 12.5 GAUGE AND BOTTOM WIRE TO BE SMOOTH.

EXISTING FENCE TO BE REMOVED
NORTHERN PORTION 2670 FT
SOUTHERN PORTION 1667 FT
TOTAL APPROXIMATE LENGTH = 4337 FT

APPROXIMATE TOTAL LENGTH 4490 FT = 0.85 MILES



ENLARGED NORTH PLAN

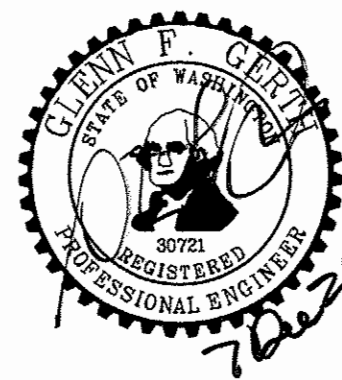


ENLARGED SOUTH PLAN



POINT DATA			
POINT #	LATITUDE	LONGITUDE	DESCRIPTION
160	48.034458	-119.017530	END BRACE
161	48.030843	-119.017554	CORNER BRACE
162	48.030536	-119.017211	CORNER BRACE
163	48.030560	-119.012631	TIE TO EXISTING
164	48.030544	-119.012242	CORNER BRACE
165	48.029886	-119.012246	16' WIDE DROP GATE
166	48.028967	-119.012251	16' WIDE DROP GATE
167	48.025560	-119.012272	TIE TO EXISTING

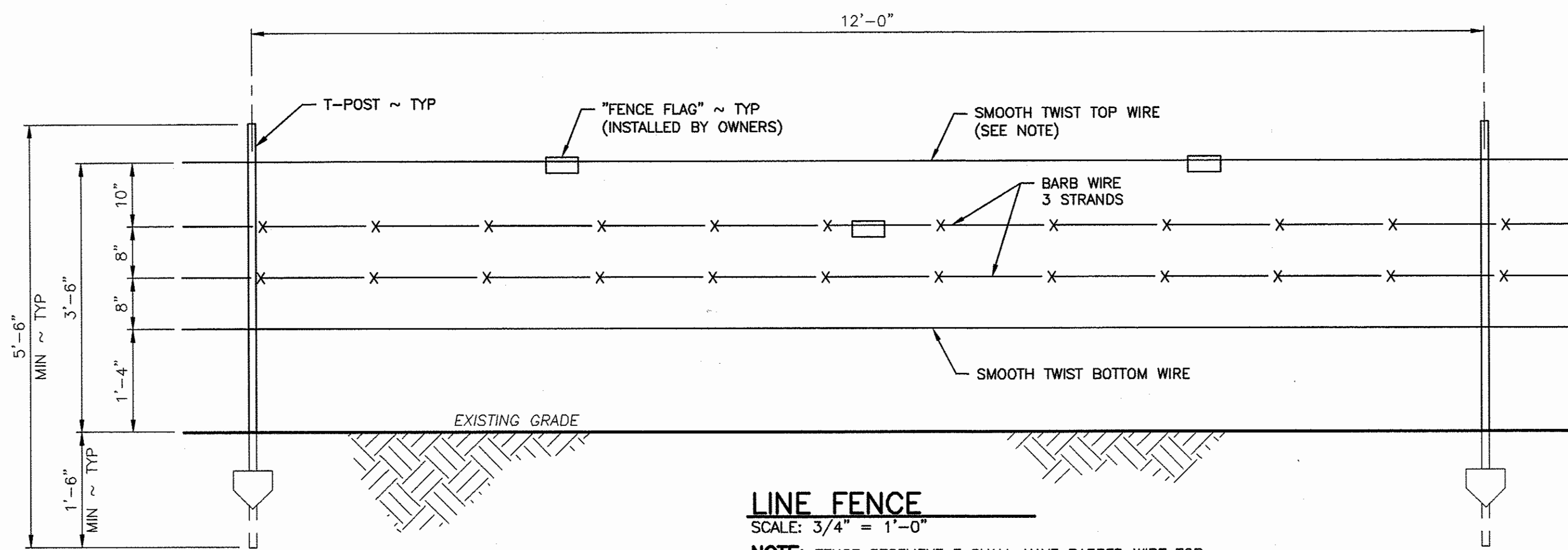
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BIG BEND WILDLIFE AREA – BIG BEND UNIT
FENCING
SEGMENT G & H – PLAN

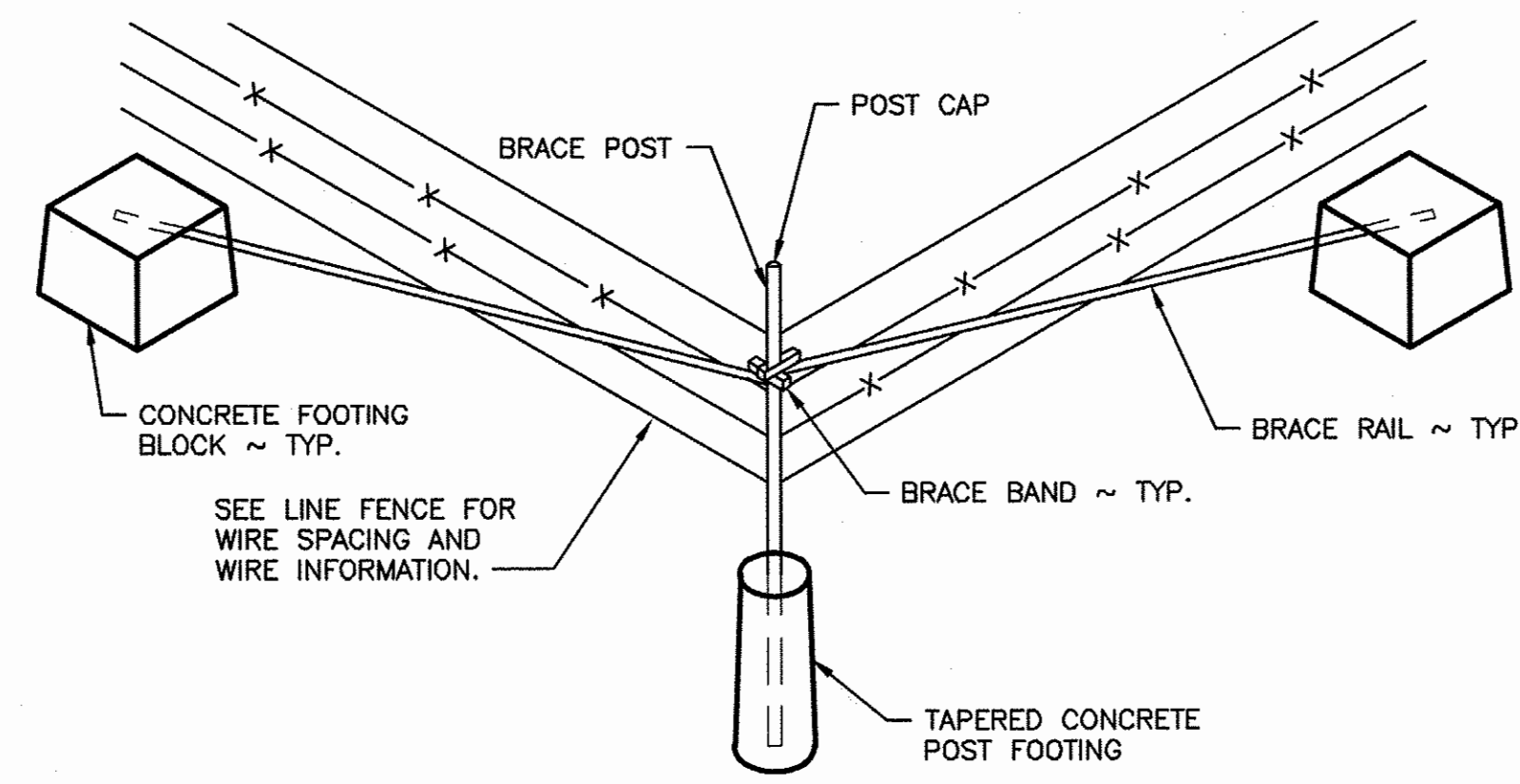
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LINE FENCE

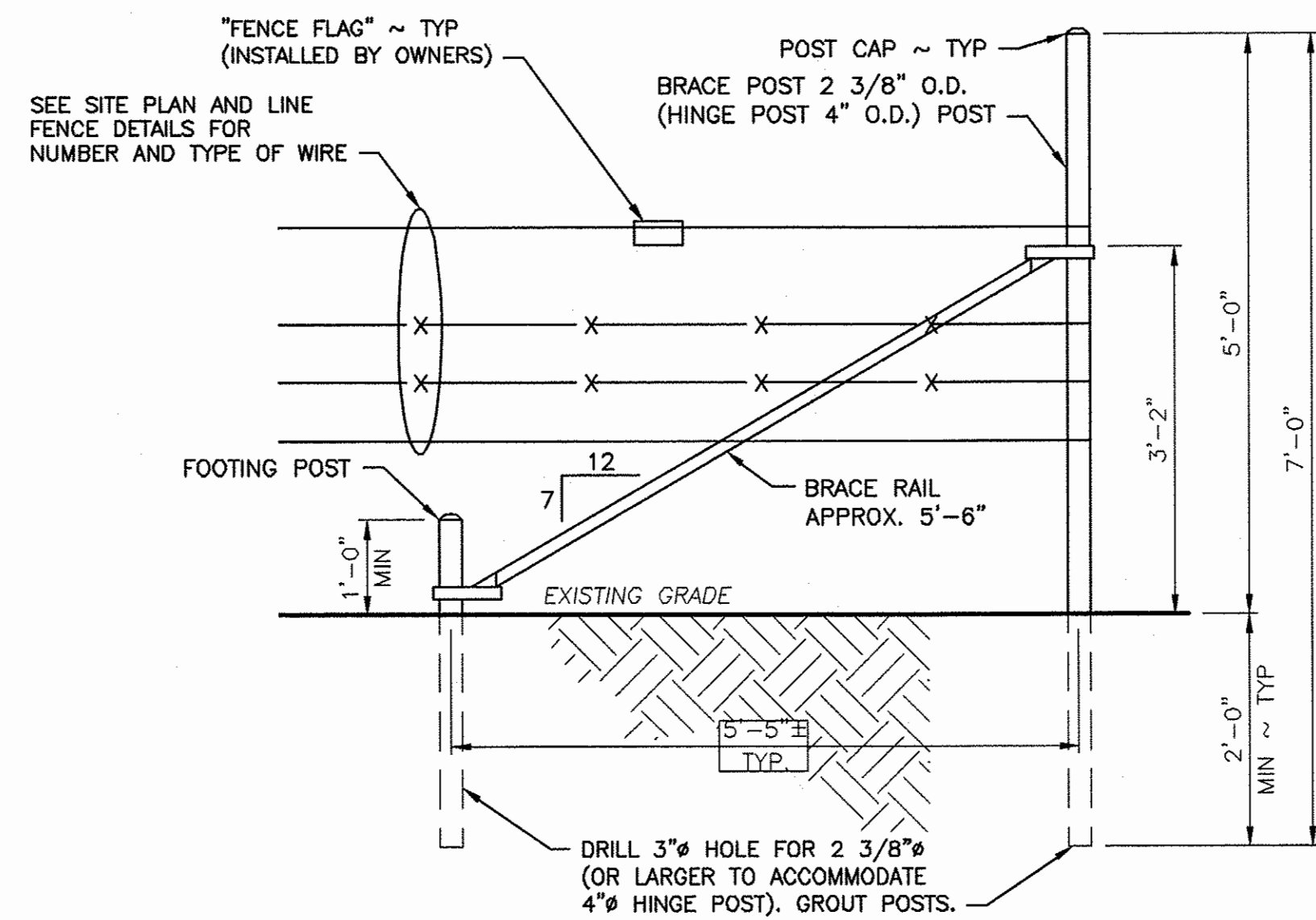
SCALE: 3/4" = 1'-0"

NOTE: FENCE SEGMENT F SHALL HAVE BARBED WIRE TOP STRAND AND SMOOTH TWIST WIRE ON BOTTOM STRAND.



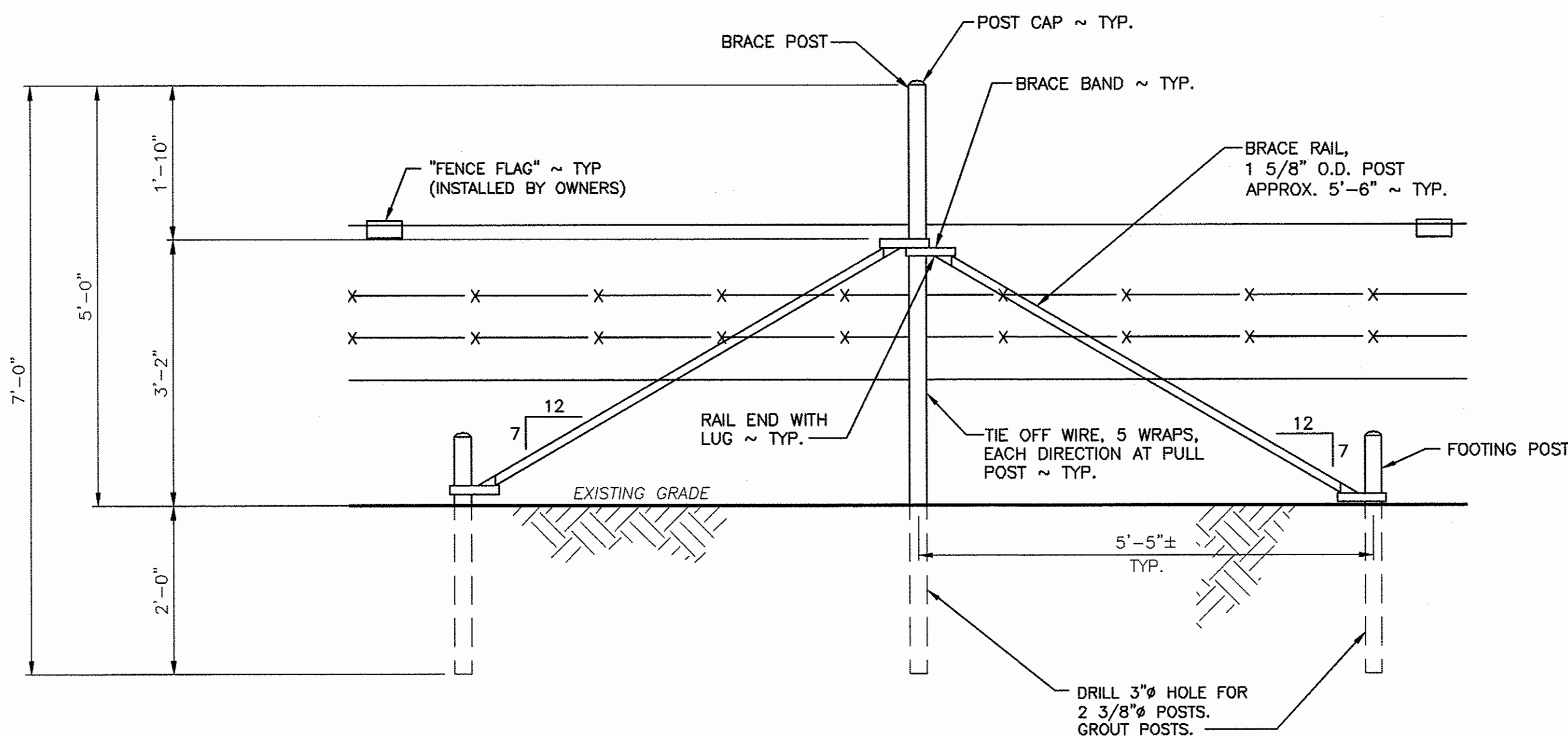
CORNER BRACE

NOT TO SCALE



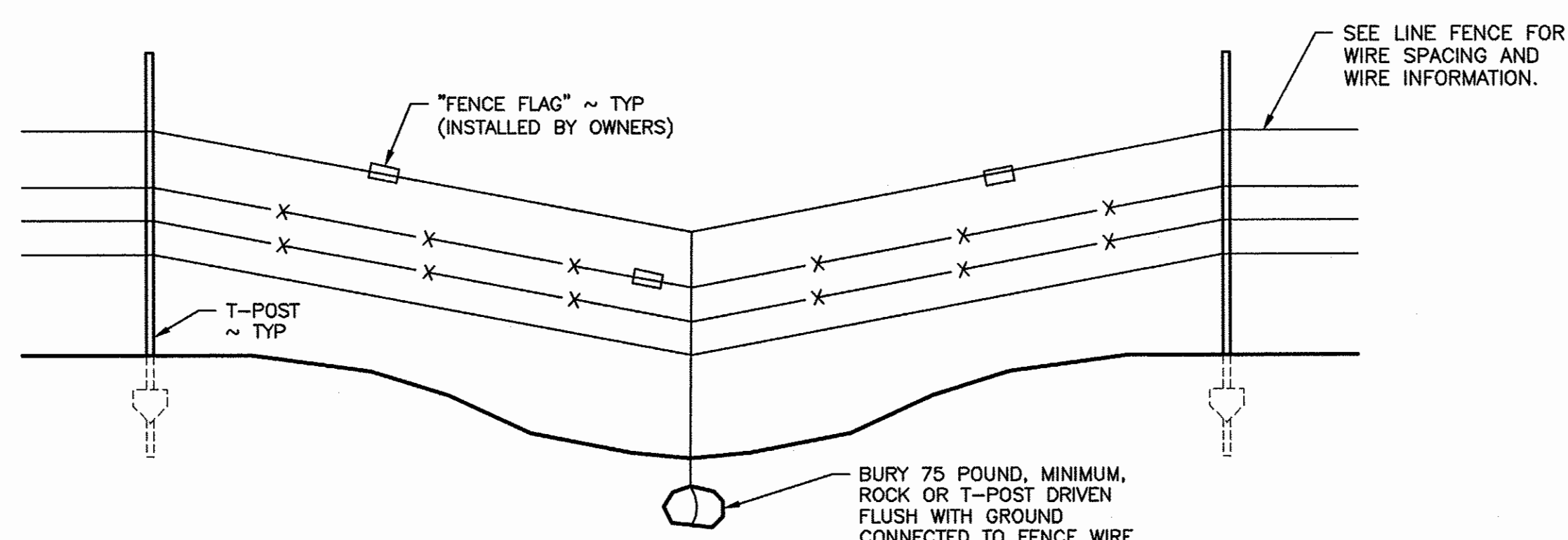
ALTERNATE END OR GATE BRACE

NOT TO SCALE



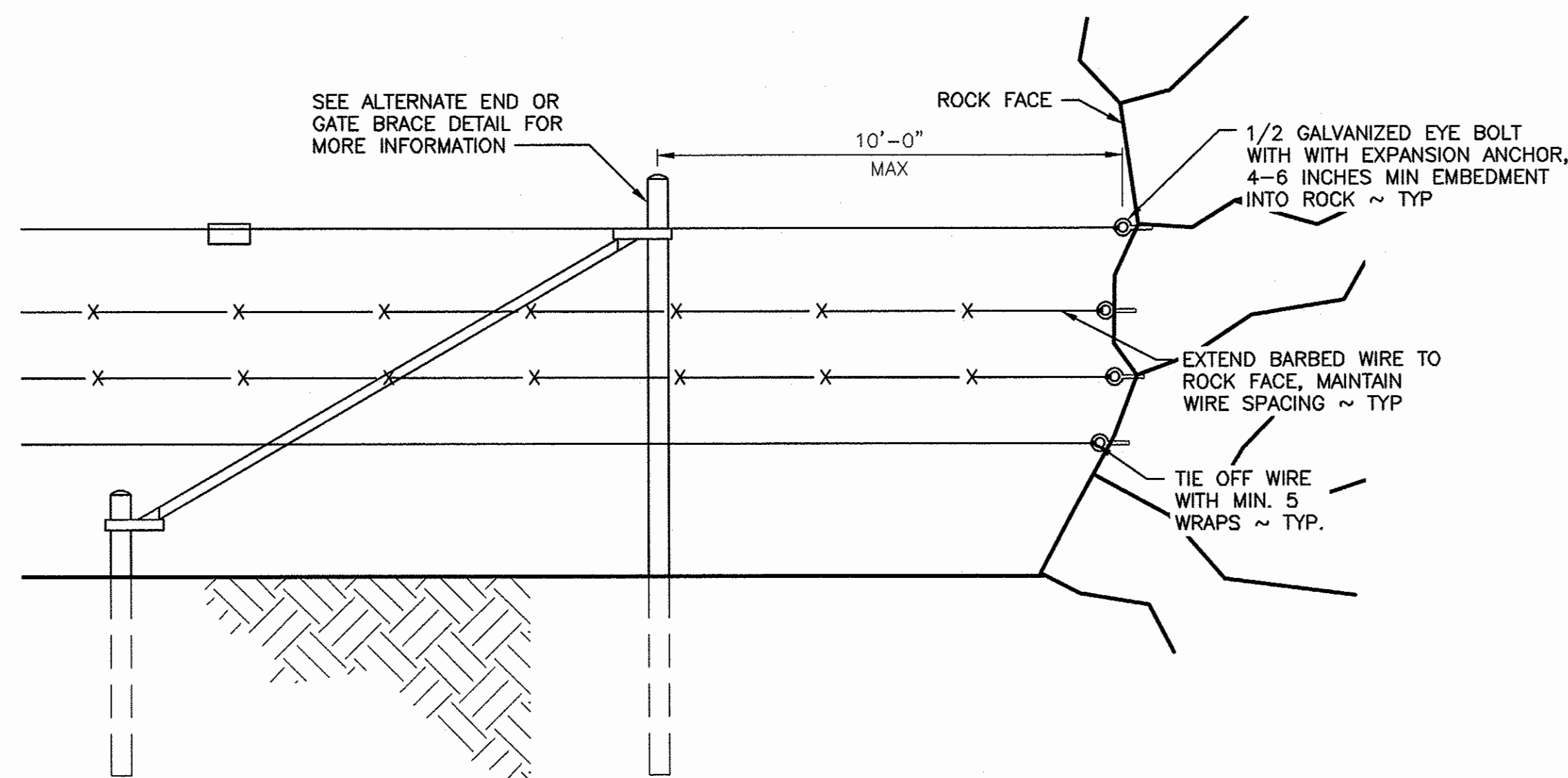
ALTERNATE CORNER OR STRETCH BRACE

NOT TO SCALE



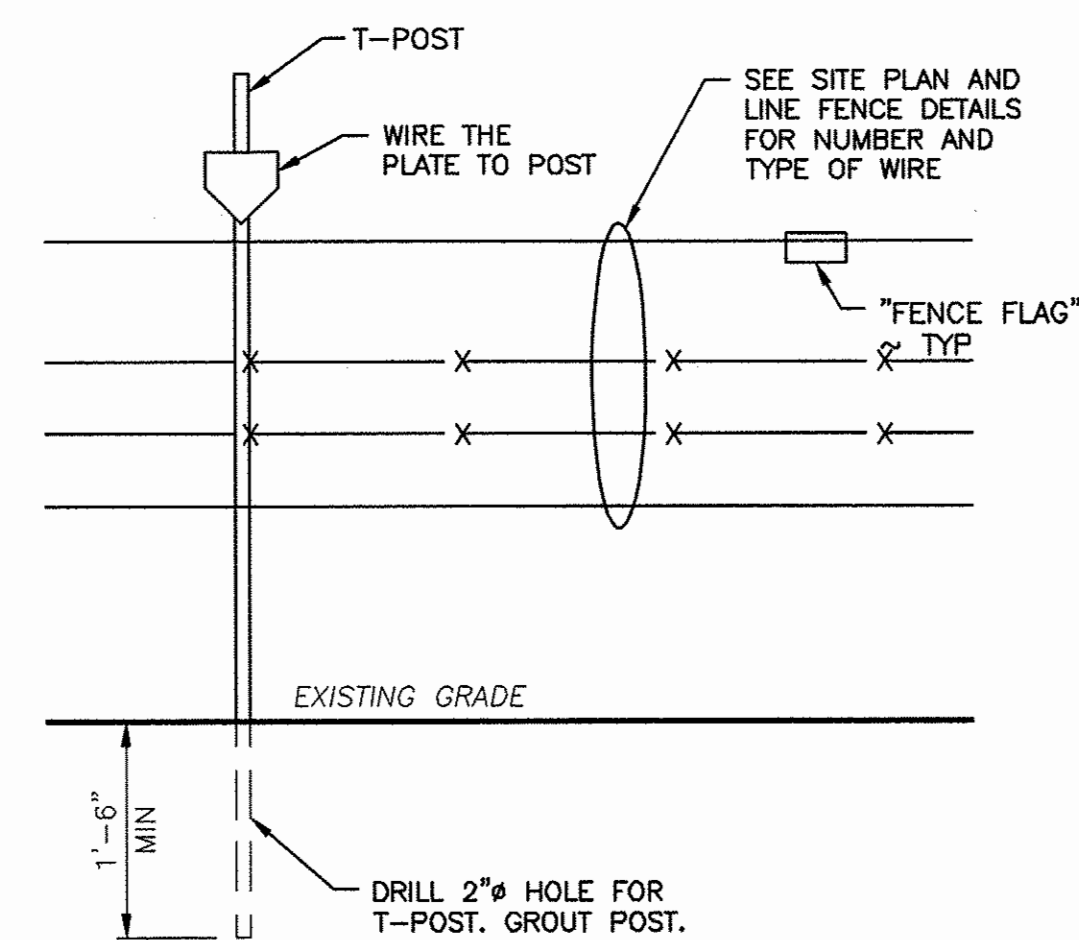
HOLD DOWN FOR DRAW

NOT TO SCALE



ROCK FACE END

NOT TO SCALE



ALTERNATE T-POST INSTALLATION

NOT TO SCALE

GENERAL NOTES:

- ALL VERTICAL STEEL BRACE AND HINGE POSTS SHALL HAVE A POST CAP.
- IF DEPTH CANNOT BE REACHED DUE TO GROUND CONDITION USE ALTERNATE METHOD SHOWN ON SHEET 6.

HOLD DOWN:

- INSTALL HOLD DOWNS AS NECESSARY TO MAINTAIN WIRE TO GROUND SPACING PER LINE FENCE DETAIL.

CORNER OR STRETCH BRACE:

- BRACE POSTS SHALL BE AT LEAST 5 FEET 6 INCHES LONG X 2 3/8 INCHES IN DIAMETER
- HEAVY DUTY BRACE BAND SHALL BE FIXED IN PLACE WITH ONE ACTUATED NAIL OR SELF-TAPPING SCREW.

END OR GATE BRACE:

- POSITION OF WIRE ON END POST SHALL BE FIXED IN PLACE WITH ONE ACTUATED NAIL OR SELF-TAPPING SCREW.
- SEE CORNER OR STRETCH BRACE NOTES AND PANEL GATE DETAIL FOR MORE INFORMATION.

NOTES FOR ALTERNATE METHODS:

T-POST INSTALLATION:

- IF THE LINE POST DESIGN DEPTH CANNOT BE OBTAINED BY CONVENTIONAL DRIVING DUE TO EXISTING SOIL/ROCK CONDITIONS, THE POST HOLE SHALL BE DRILLED. SEE T-POST INSTALLATION.

END OR GATE BRACE POSTS:

- IF THE POST HOLE CANNOT BE DUG CONVENTIONALLY DUE TO BEDROCK, A 3" DIA. HOLE FOR THE BRACE POST SHALL BE DRILLED TO A DEPTH OF AT LEAST 24" INTO THE ROCK AND THE POST BE GROUTED WITH A THIN FLOWABLE GROUT (OR LARGER TO ACCOMMODATE HINGE POST). AN IDENTICAL HOLE FOR A FOOTING POST TO RECEIVE THE LOWER END OF THE BRACE RAIL SHALL ALSO BE DRILLED, AND 2 3/8" DIA. POST GROUTED IN. ALL VERTICAL METAL POSTS (BRACE AND FOOTING) SHALL HAVE A GALVANIZED METAL POST CAP. SEE ALTERNATE END OR GATE BRACE POST.

- HEAVY DUTY BRACE BAND SHALL BE FIXED IN PLACE WITH ONE ACTUATED NAIL OR SELF-TAPPING SCREW.

- POSITION OF WIRE ON END POST SHALL BE FIXED IN PLACE WITH ONE ACTUATED NAIL OR SELF-TAPPING SCREW.

CORNER OR STRETCH BRACE:

- SEE ALTERNATE END OR GATE BRACE FOR MORE INFORMATION.

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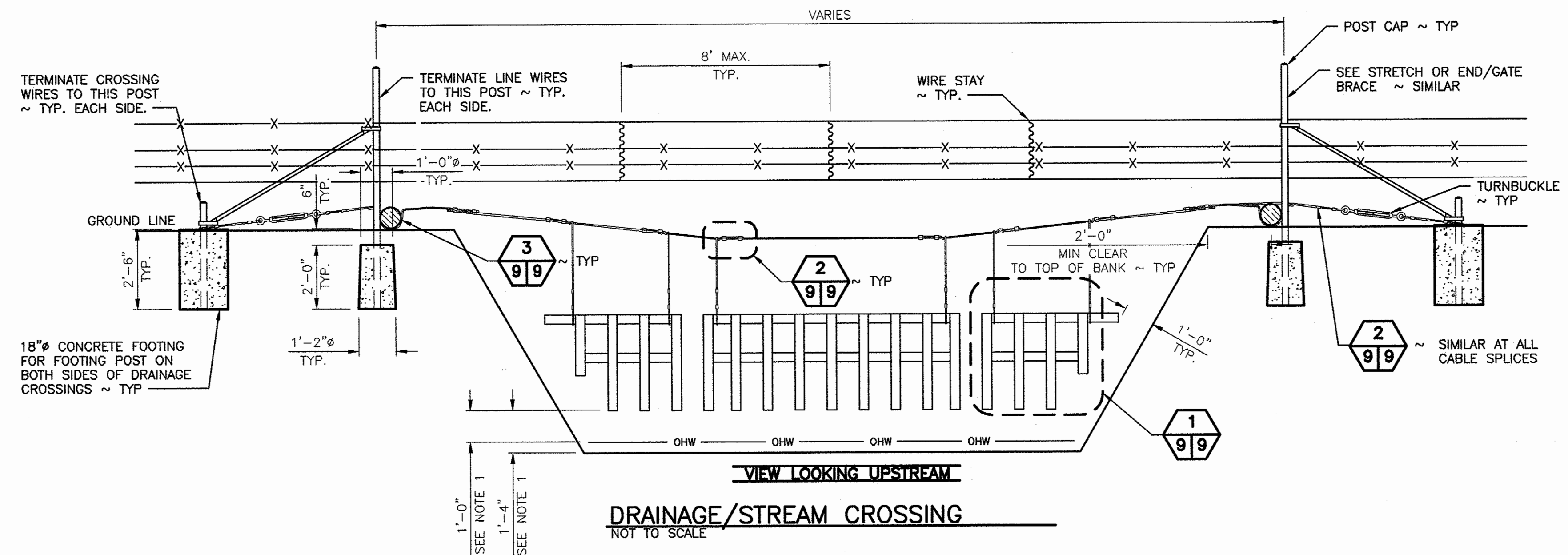
SYM	DATE	REVISION DESCRIPTION	BY
		DESIGNED BY R. MOSBERGER	
		CHECKED BY N. WHITE	
		DRAWN BY J. LONG	
		DATE 012/07/2021	
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	<i>[Signature]</i>	DATE: 7/20/21	
PROGRAM		DATE:	

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NOTES:

DRAINAGE/STREAM CROSSING:

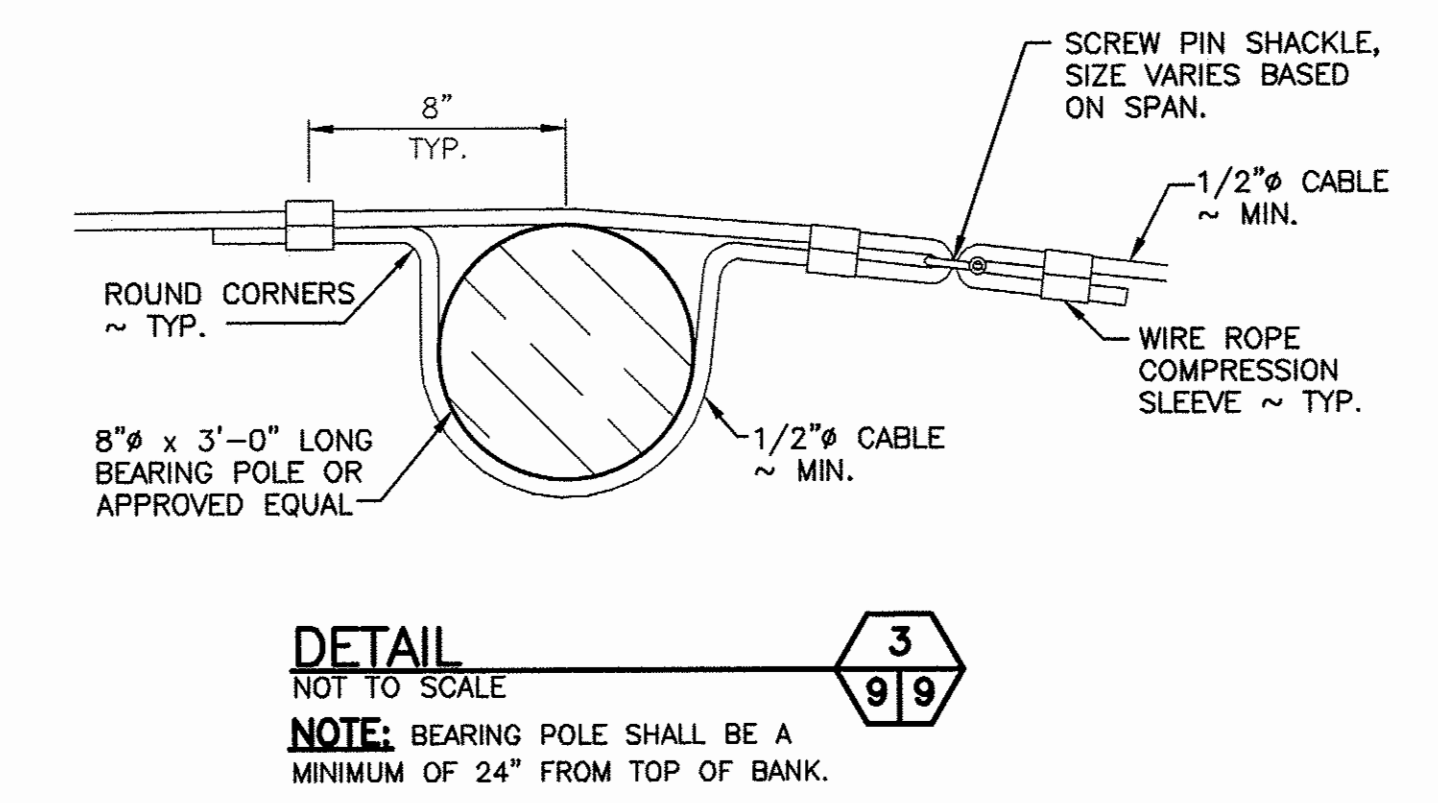
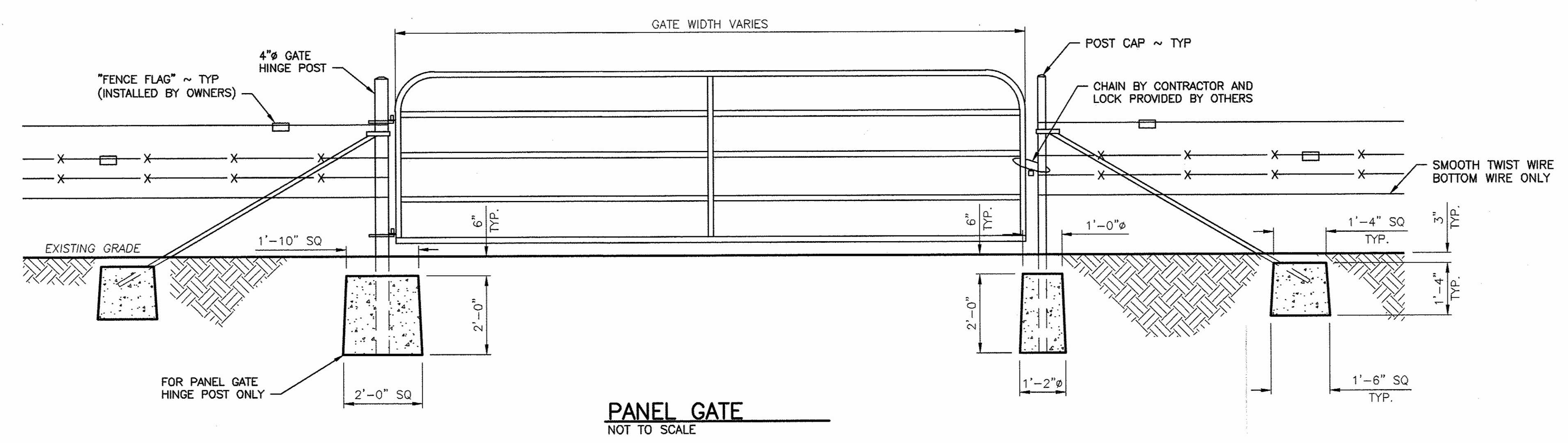
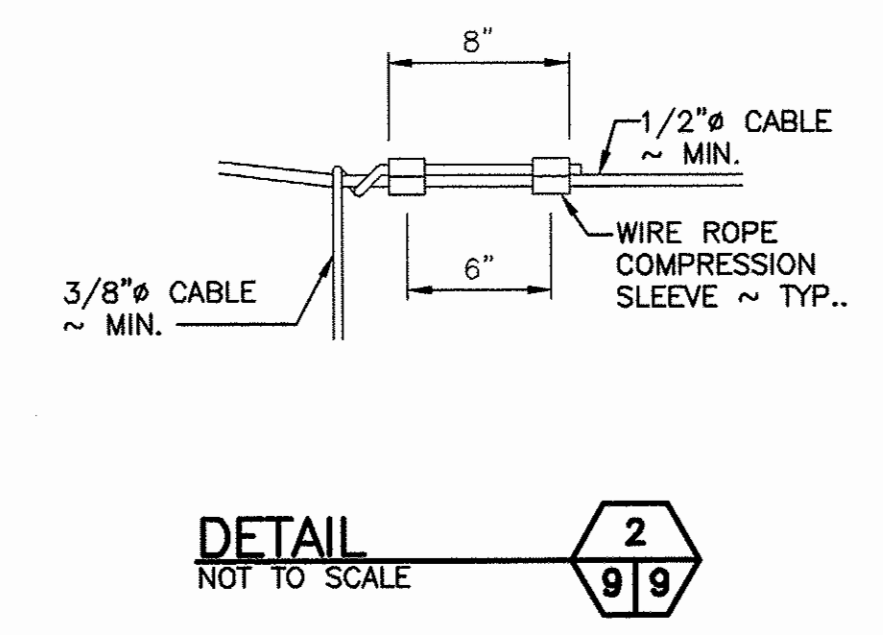
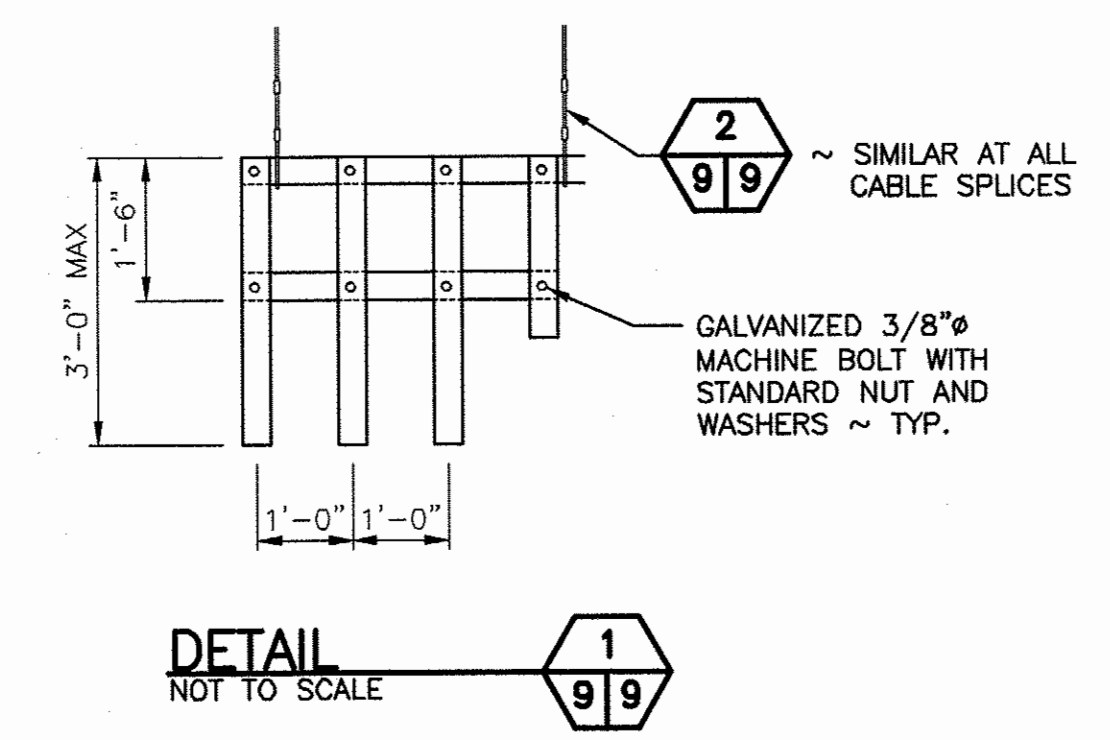
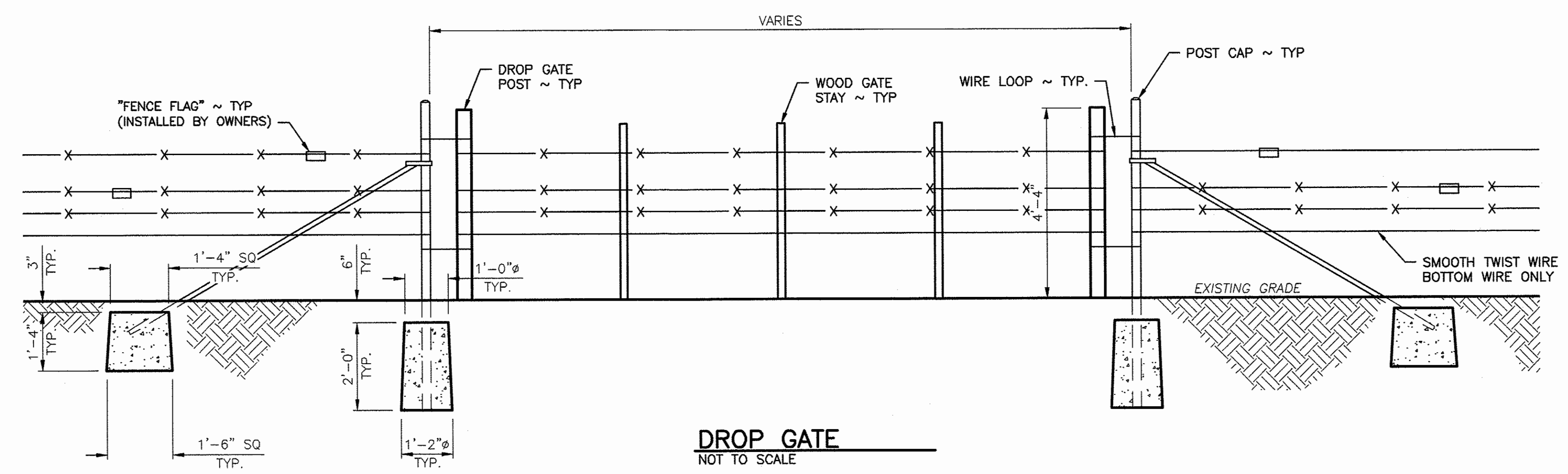
- PICKETS SHALL BE CONSTRUCTED AS SHOWN IN THE DRAWINGS. PICKETS SHALL BE INSTALLED 1'-4" ABOVE GRADE OR 1'-0" ABOVE ORDINARY HIGH WATER, WHICHEVER IS GREATER.
- CROSSING CABLE SHALL BE PLACED ON THE UPSTREAM SIDE OF POSTS.
- CABLE COMPRESSION SLEEVE SHALL BE FOR GALVANIZED CABLE OR APPROVED EQUAL.
- SCREW PIN SHACKLES SHALL HAVE A 600 POUND CAPACITY FOR CROSSING SPANS UP TO 10'-0" IN LENGTH. FOR CROSSING SPANS GREATER THEN 10'-0" IN LENGTH, THE SHACKLES SHALL HAVE A 1,100 POUND CAPACITY.

DROP GATE:

- GATE SHALL HAVE THREE VERTICAL WOOD 48" X 2" X 2" UNTREATED STAYS AT 1/4 POINTS ALONG GATE. THE DROP POSTS LOCATED AT EACH END SHALL BE 3"-4" DIA. WOOD POSTS CUT TO A LENGTH OF 4'-4". LOOP HINGES AND LOOP CLOSURES CONSTRUCTED OF BRACE WIRE AND LOOPED AROUND END BRACE POSTS TO FACILITATE CLOSURE OF THE GATE.
- SPACING OF THE LONGTUDINAL WIRES SHALL BE THE SAME AS THE LINE FENCE.

PANEL GATE:

- PANEL GATE MANUFACTURER, TYPE, AND SIZE AS SPECIFIED IN SPECIFICATION. INSTALLED PER MANUFACTURER SPECIFICATION.

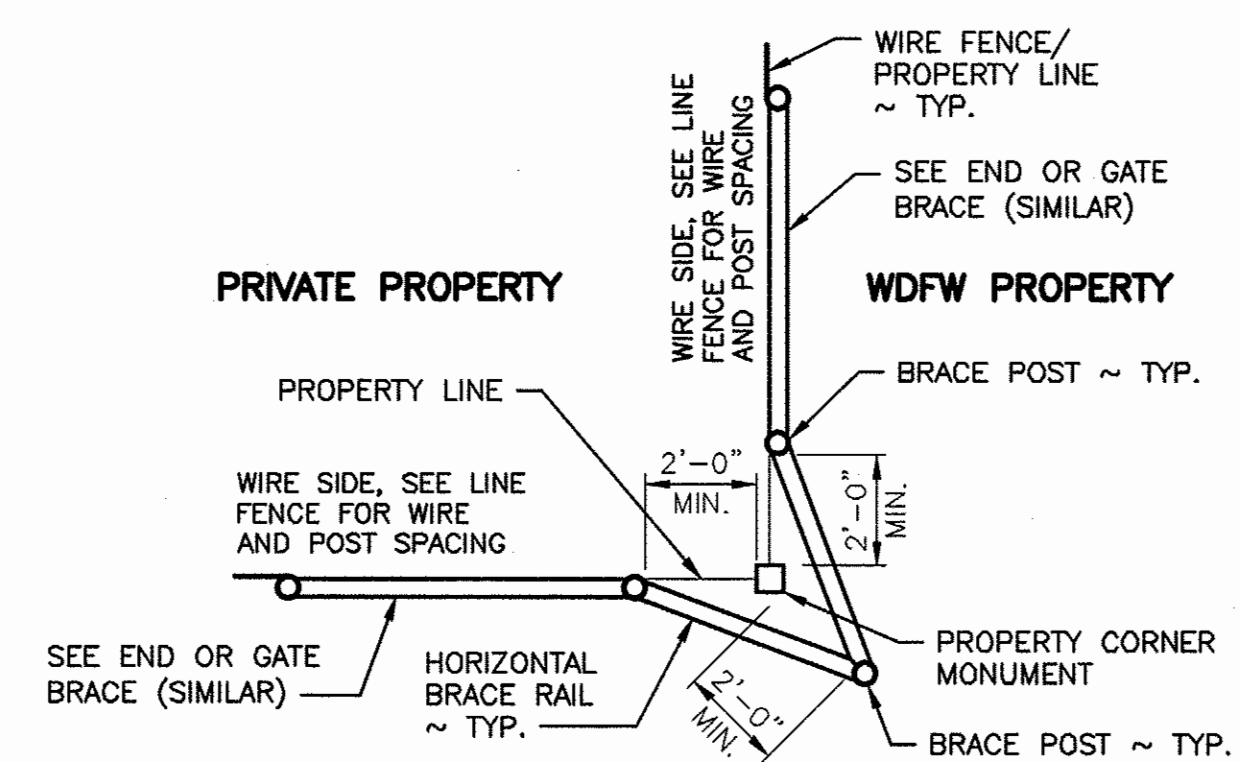
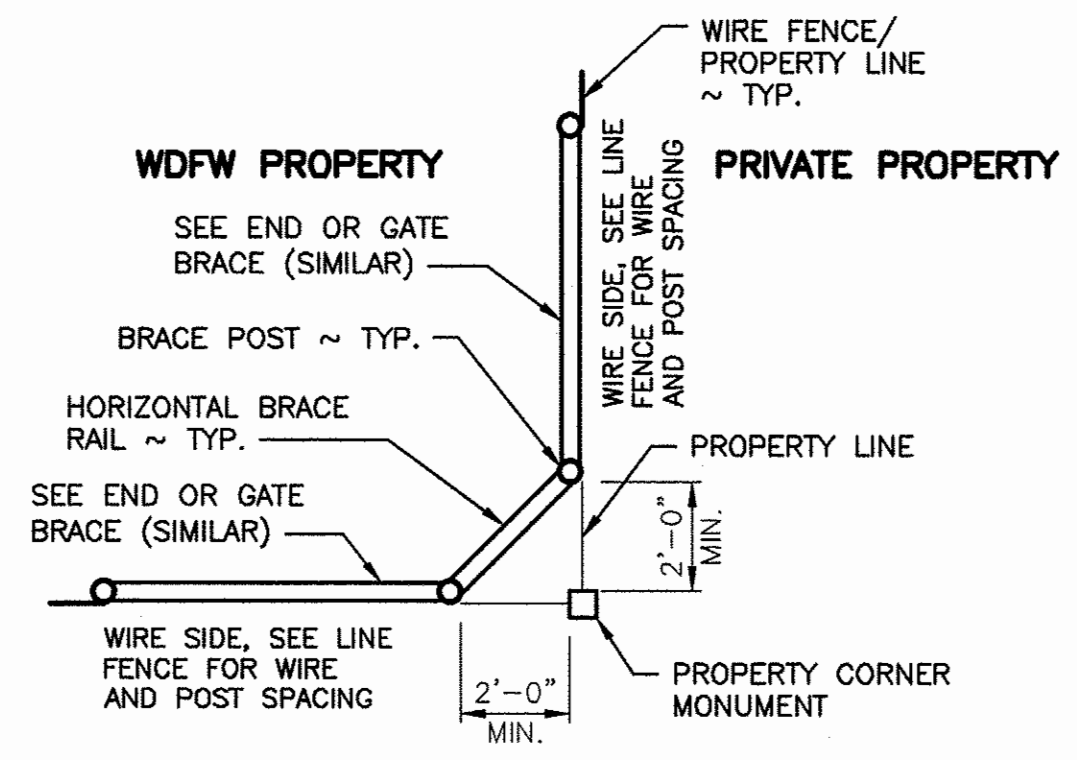


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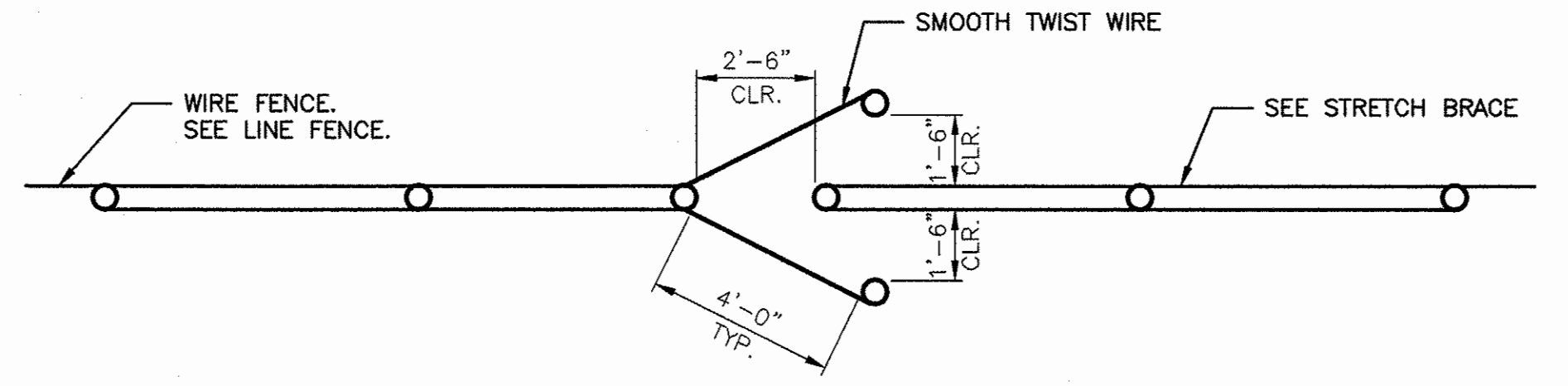


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		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER		DATE: 7/20/21	
PROGRAM		DATE: 012/07/2021	

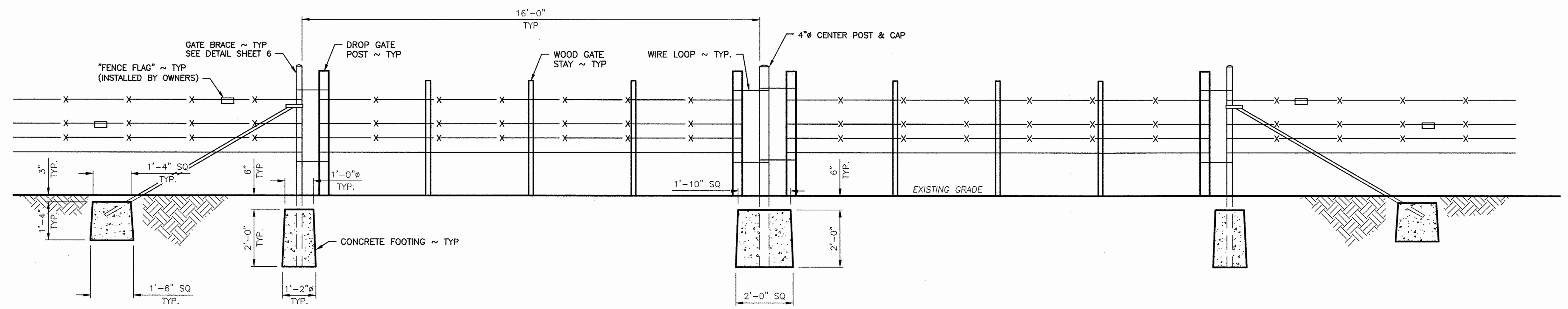
BIG BEND WILDLIFE AREA - BIG BEND UNIT		PROJECT NO. DS:R188:2021-1	
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FENCE DETAILS 2		9	11



PROPERTY CORNER
NOT TO SCALE



WALK THROUGH GATE
NOT TO SCALE



DROP GATE INTERSECTION 4
SCALE: 1/2" = 1'-0" 6/10

NOTE: SEGMENT F FENCING TYPE TO BE 4 POINT BARBED WIRE 12.5 GAUGE AND BOTTOM WIRE TO BE SMOOTH.

- NOTES:**
- PROPERTY CORNER:**
- PROPERTY CORNER STRUCTURE CONSTRUCTION METHODS SIMILAR TO CORNER OR STRETCH BRACE.
 - DURING INSTALLATION OF POSTS, INSURE THAT THE PROPERTY CORNER MONUMENT IS NOT DAMAGED, MOVED, OR DISTURBED IN ANY WAY.
- DROP GATE:**
- GATE SHALL HAVE THREE VERTICAL WOOD 48" X 2" X 2" UNTREATED STAYS AT 1/4 POINTS ALONG GATE. THE DROP POSTS LOCATED AT EACH END SHALL BE 3"-4" DIA. WOOD POSTS CUT TO A LENGTH OF 4'-4". LOOP HINGES AND LOOP CLOSURES CONSTRUCTED OF BRACE WIRE AND LOOPED AROUND END BRACE POSTS TO FACILITATE CLOSURE OF THE GATE.
 - SPACING OF THE LONGITUDINAL WIRES SHALL BE THE SAME AS THE LINE FENCE.
- WALK THROUGH GATE:**
- SEE LINE FENCE FOR WIRE SPACING.
 - ALL WIRE IN WALK THROUGH SHALL BE SMOOTH TWIST WIRE.
 - SMOOTH TWIST WIRE SHALL BE 12 1/2 GAUGE, BARBLESS, SMOOTH TWIST WIRE, CLASS 3 GALVANIZED.

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CHIEF ENGINEER			DATE: 7/20/21
PROGRAM			DATE: 012/07/2021

DESIGNED BY R. MOSBERGER
CHECKED BY N. WHITE
DRAWN BY J. LONG

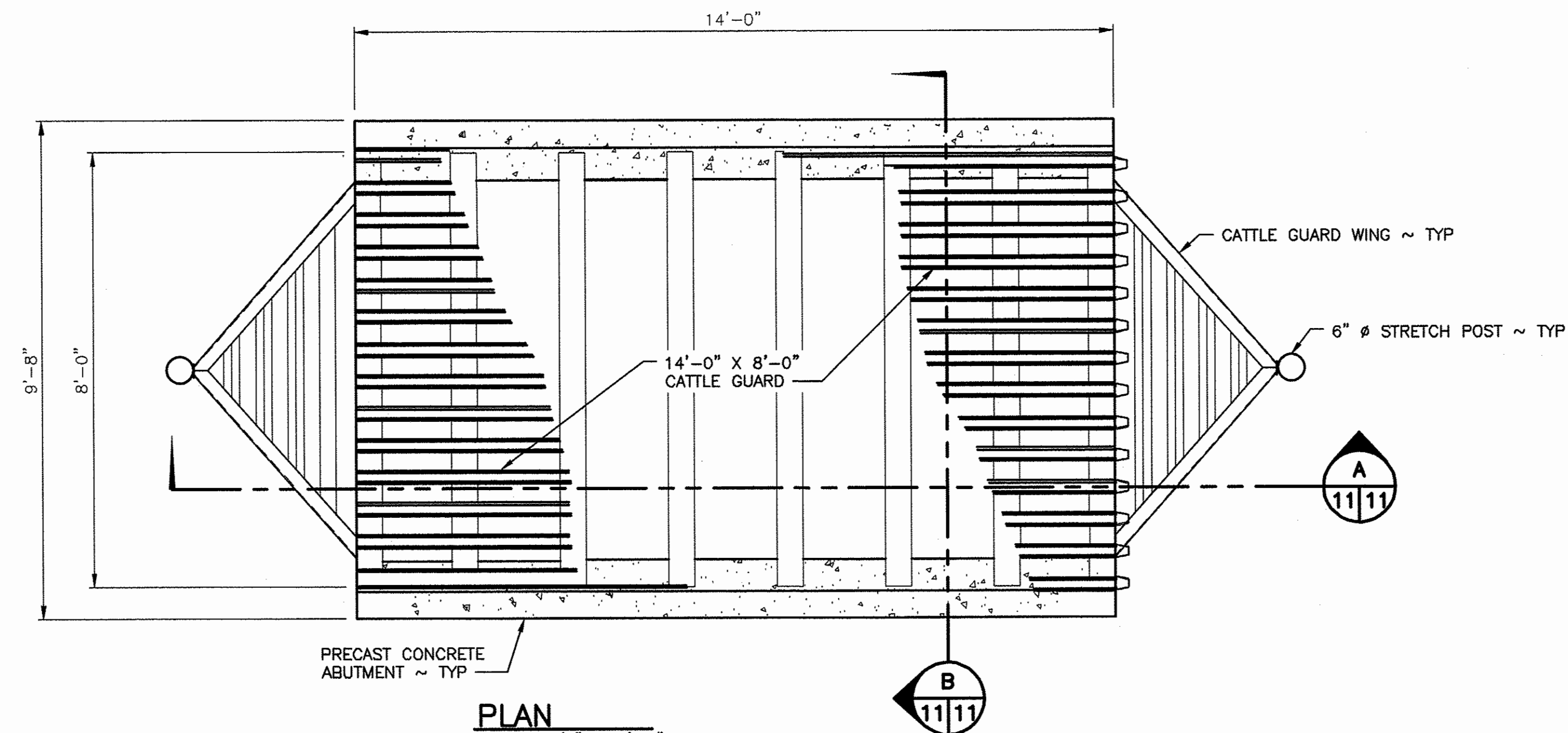
BIG BEND WILDLIFE AREA – BIG BEND UNIT

FENCING

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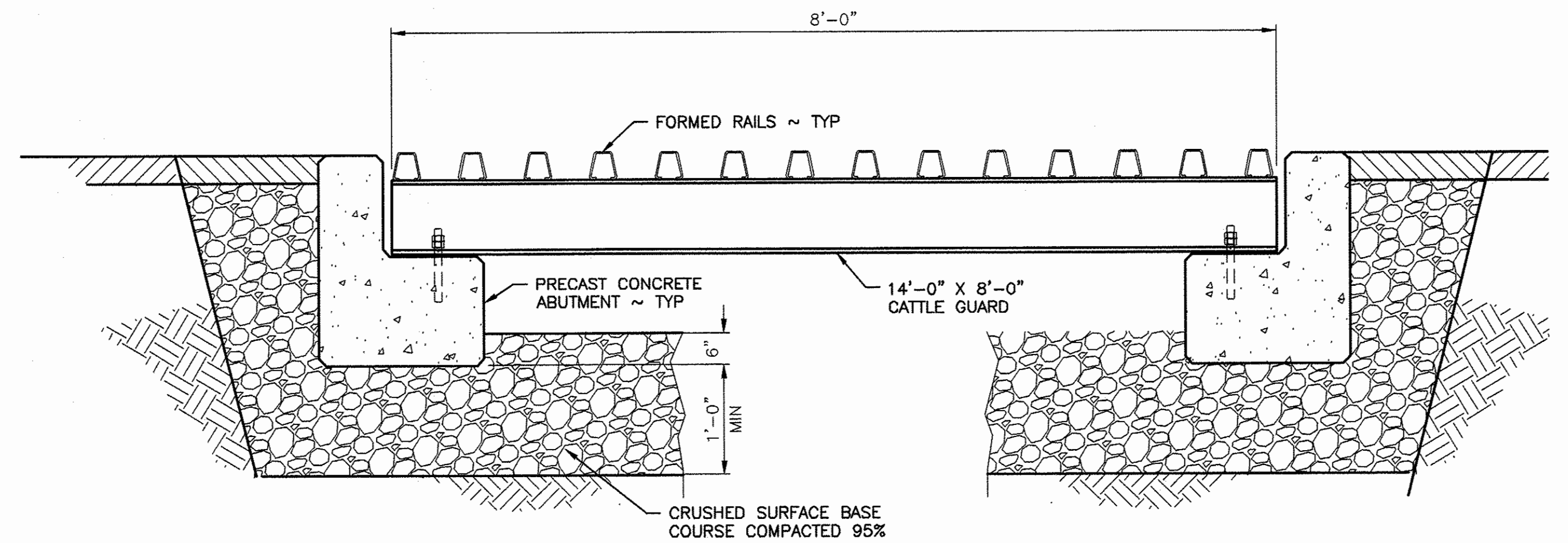
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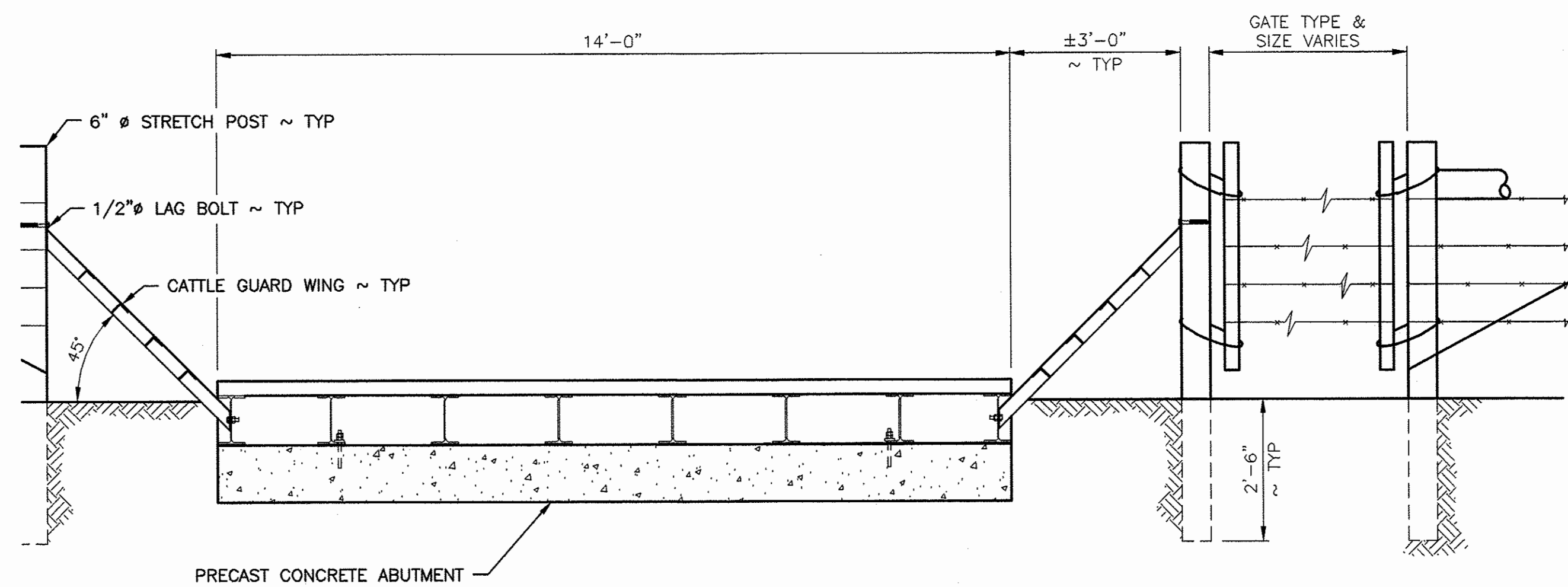
PLAN
SCALE: 1/2" = 1'-0"

NOTES:

1. CATTLE GUARD AND PRECAST ABUTMENTS SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS.
2. PROVIDE DRAINAGE AWAY FROM STRUCTURE.



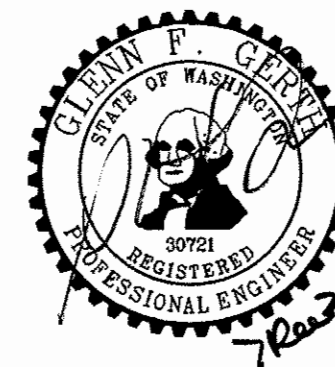
SECTION
SCALE: 1/2" = 1'-0"



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

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		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER		<i>[Signature]</i>	DATE: 12/21/21
PROGRAM			DATE: 012/07/2021

BIG BEND WILDLIFE AREA – BIG BEND UNIT

FENCING
CATTLE GUARD DETAILS

PROJECT NO.
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