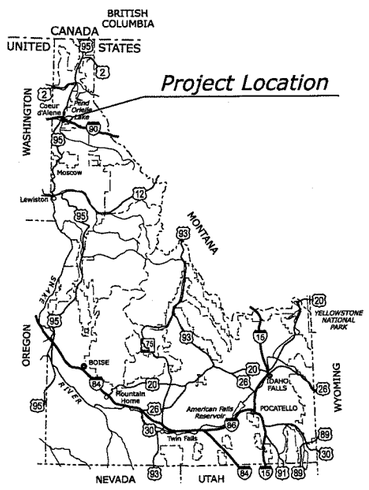
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	A.1

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



IDAHO KEY MAP

PLANS FOR PROPOSED PROJECT

ID PFH 80-1(1)

FERNAN LAKE ROAD

IDAHO PANHANDLE NATIONAL FOREST
KOOTENAI COUNTY
IDAHO

LENGTH 10.354 MILES

FINAL REVIEW
August, 2007

SEE SHEET A.2 FOR SHEET INDEX

PRELIMINARY

TYPE OF CONSTRUCTION:

Grading, drainage, base, paving, bridge

DESIGN DESIGNATION:

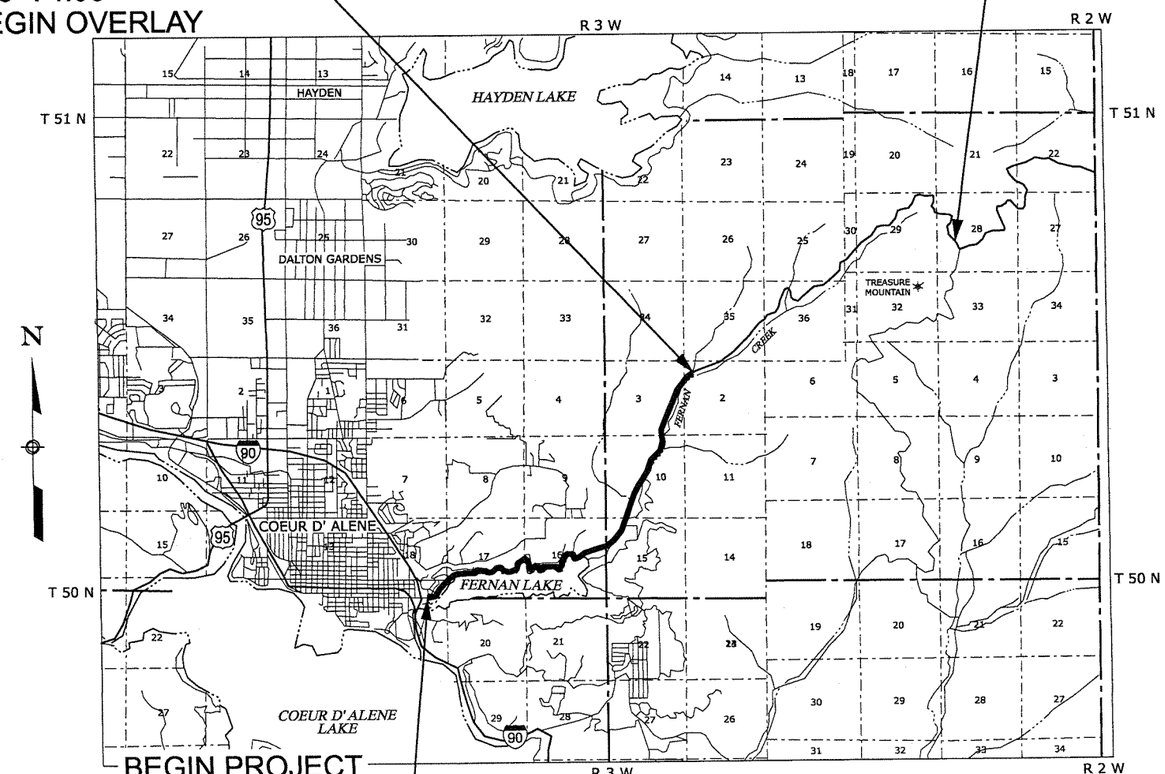
	10+00.00 to 130+00.00	130+00.00 to 556+69.67
ADT	2006 = 810	2006 = 430
ADT	2026 = 1500	2026 = 795
V	25 mph	35 mph
e(max)	4% max.	6% max.

SPECIFICATION:

Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 US Customary Units

END RECONSTRUCTION
283+74.00
BEGIN OVERLAY

END PROJECT
556+69.67
END OVERLAY



BEGIN PROJECT
10+00.00
BEGIN RECONSTRUCTION

FEDERAL LANDS HIGHWAY
COMMITMENT TO EXCELLENCE

PLANS PREPARED BY
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION
VANCOUVER, WASHINGTON

D&A
CONSULTING ENGINEERS & LAND SURVEYORS
3203 Russell Street, Missoula, Montana 59801-8591
Phone 406/721-4320 Fax 406/549-6371

RECOMMENDED:

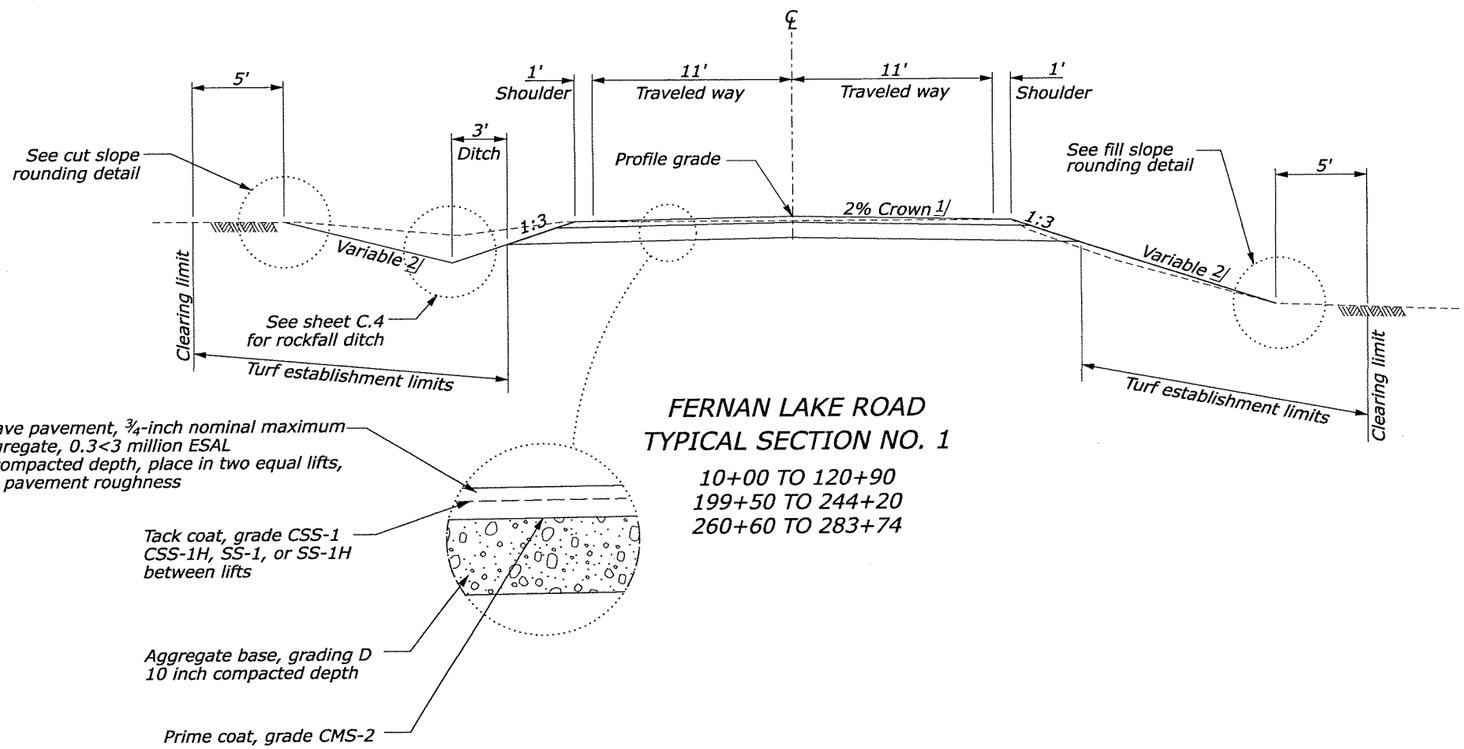
_____ DATE _____
Project Manager,
Western Federal Lands Highway Division

APPROVED:

_____ DATE _____
Director, Project Delivery,
Western Federal Lands Highway Division

2/2006 Vaughn Anderson | 2/2006 Checked by: | Matt Ulberg | 17-Aug-2007 02:08 PM | Designed by: | F:\fha\5019\IDPFH8011AA.dgn

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.2



FERNAN LAKE ROAD
TYPICAL SECTION NO. 1

10+00 TO 120+90
199+50 TO 244+20
260+60 TO 283+74

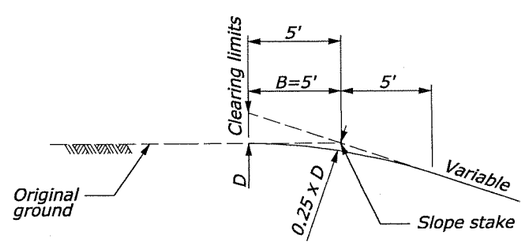
CURVE WIDENING (Information only)				
Location	Side	Width (ft)	Transition In/Out (ft)	
18+23.19 to 20+85.21	Left	2.3	89.10	65.30
28+53.03 to 32+13.55	Right	2.0	122.92	25.00
31+88.55 to 34+22.42	Left	2.3	25.00	81.74
33+40.69 to 36+45.60	Right	3.8	81.74	28.00
36+17.60 to 38+68.92	Left	3.8	28.00	35.00
40+53.72 to 44+42.53	Left	3.8	35.00	277.83
41+64.70 to 48+52.54	Right	3.8	277.83	28.09
48+24.45 to 52+20.84	Left	3.8	28.09	108.26
66+29.12 to 71+27.60	Right	3.8	35.00	35.00
76+23.90 to 78+99.53	Left	5.7	52.70	-
78+99.53 to 82+28.40	Left	5.7	-	117.54
81+10.86 to 88+95.77	Right	3.3	117.54	154.37
87+41.40 to 91+97.46	Left	8.4	154.37	86.29
91+11.18 to 97+82.58	Right	3.5	86.29	311.74
98+96.24 to 102+54.76	Right	3.5	68.39	87.25
101+67.51 to 108+57.89	Left	3.8	87.25	172.87
106+85.02 to 111+07.52	Right	2.2	172.87	114.98
115+24.87 to 123+39.24	Right	3.3	35.00	187.72
121+51.52 to 127+36.73	Left	4.4	187.72	35.00

FOOTNOTE:

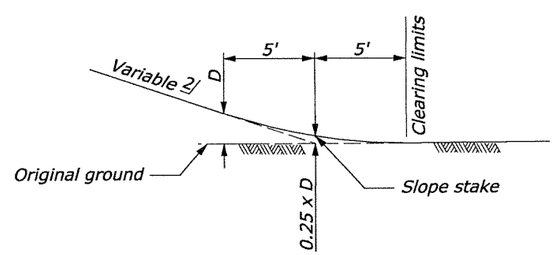
1/ Superelevate roadway on curves at the rate 'e' as indicated on the plan and profile curve data.

2/ Construct slopes as shown in the Staking Report (see FAR 52.236-4).

3/ For cut heights less than "B" reduce "B" to the cut height dimension and reduce the front slope rounding distance proportionally.



CUT SLOPE ROUNDING DETAIL 3/



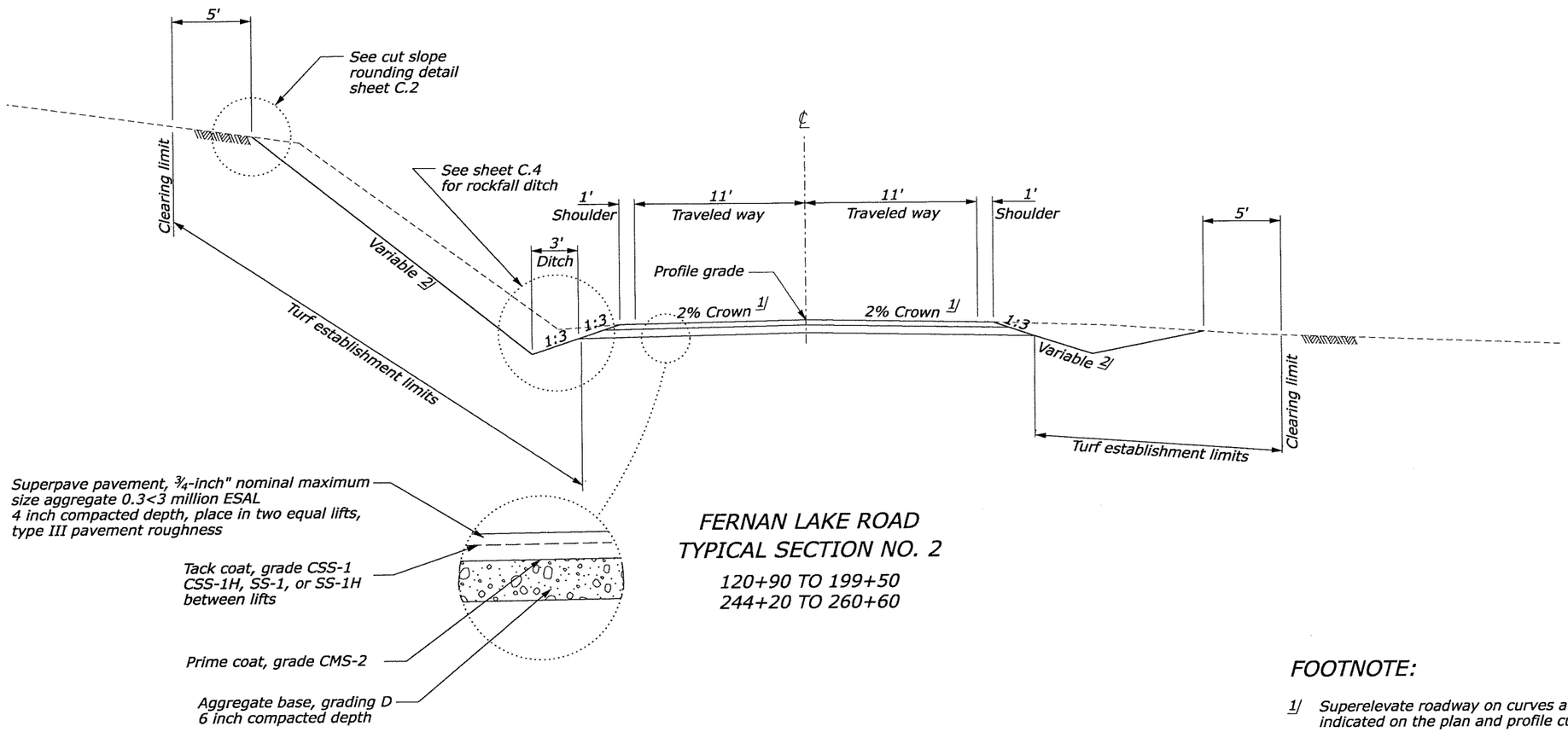
FILL SLOPE ROUNDING DETAIL

PRELIMINARY

TYPICAL SECTION

F:\fha\5019\DPFH8011CA.dgn | 14-Aug-2007 03:01 PM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.3



FERNAN LAKE ROAD
TYPICAL SECTION NO. 2

120+90 TO 199+50
244+20 TO 260+60

FOOTNOTE:

1/ Superelevate roadway on curves at the rate 'e' as indicated on the plan and profile curve data.

2/ Construct slopes as shown in the Staking Report (see FAR 52.236-4).

PRELIMINARY

TYPICAL SECTION

Designed by: Matt Ulberg 2/2006
Checked by: Vaughn Anderson 2/2006
14-Aug-2007 03:05 PM
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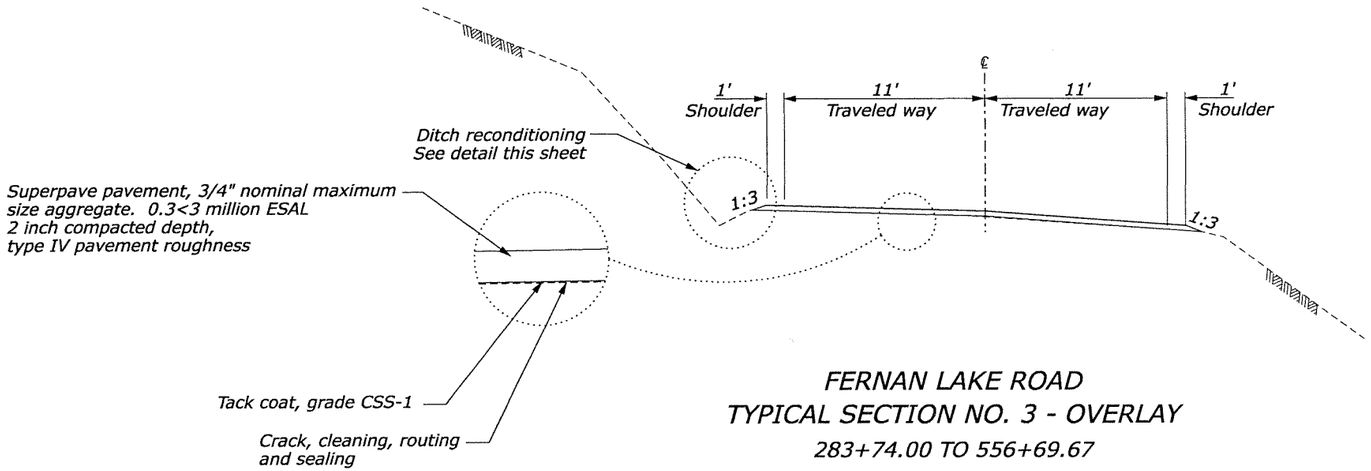
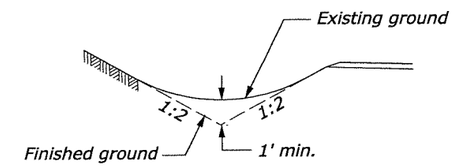
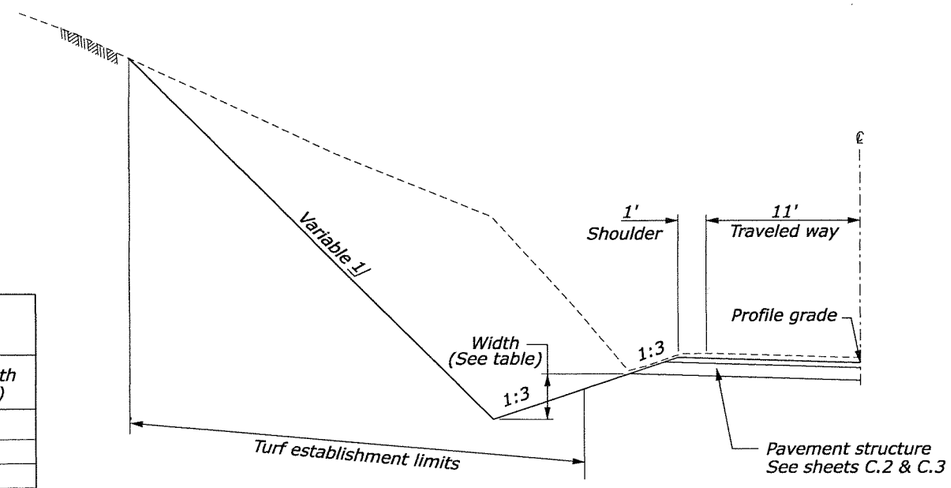
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.4



FERNAN LAKE ROAD
TYPICAL SECTION NO. 3 - OVERLAY
283+74.00 TO 556+69.67



DITCH RECONDITIONING DETAIL



ROCKFALL DITCH DETAIL

ROCKFALL DITCH 1/ (Information only)					
Location		Depth (ft)	Location		Depth (ft)
11+35	to 33+66	5	140+00	to 140+60	5
36+00	to 46+85	10	144+20	to 150+10	5
47+40	to 56+00 2/	5	156+40	to 157+00	5
65+70	to 68+00	5	157+02	to 161+81	10
68+00	to 69+00	10	169+50	to 178+00	10
69+00	to 71+05	5	192+45	to 194+00	5
93+40	to 101+90	5	194+00	to 198+70 3/	1.5
101+90	to 109+10	15	219+00	to 229+80	10
109+10	to 110+80	5	229+81	to 233+80	5
110+80	to 116+30	10	244+00	to 245+60	10
121+60	to 123+55	5	250+50	to 254+50	10
123+55	to 129+80	10	254+50	to 261+50	5
135+00	to 140+00	10	261+50	to 281+50 3/	1.5

PRELIMINARY

FOOTNOTE:

1/ Construct slopes as shown in the Staking Report (see FAR 52.236-4).

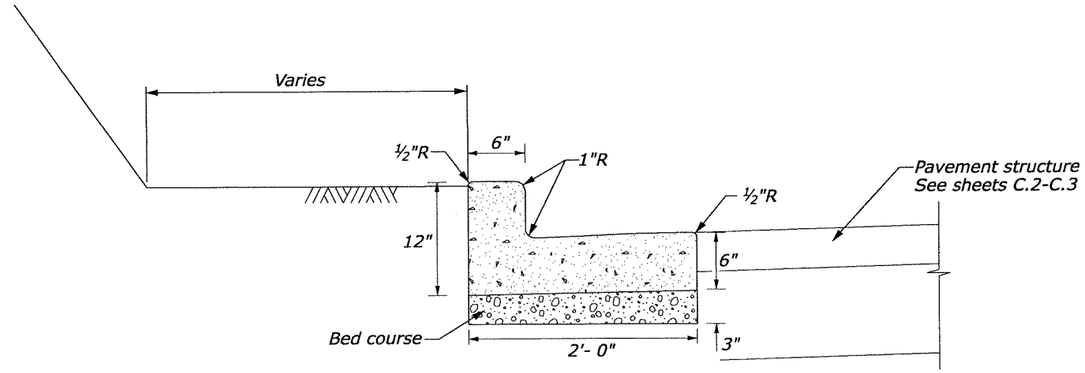
2/ 5' flat bottom width. See cross sections, 48+50 to 55+20.

3/ Reduced ditch depth to prevent cutting into hillside.

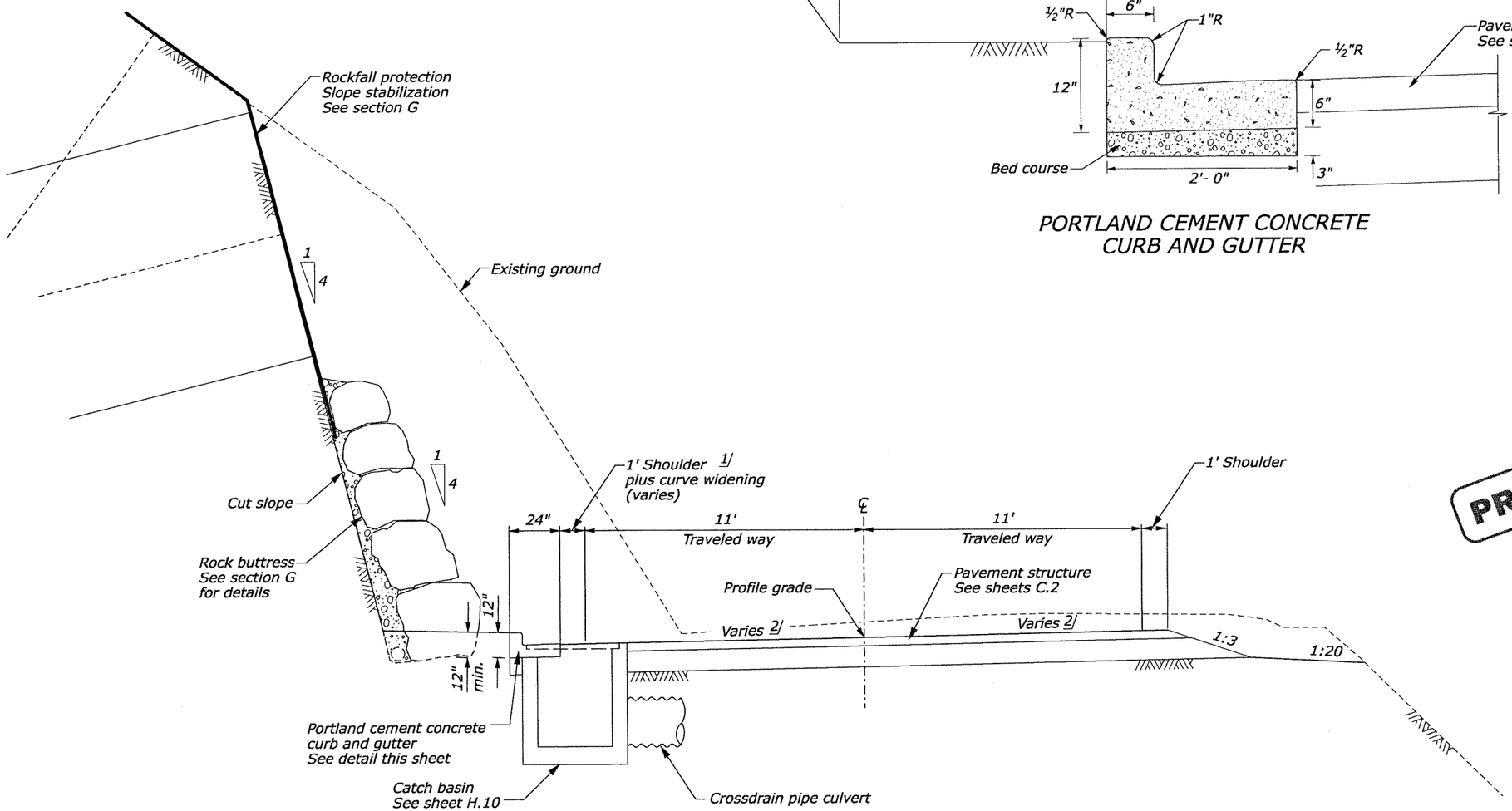
TYPICAL SECTION

F:\fha\5019\DPFH8011CC.dgn | 14-Aug-2007 03:29 PM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.5



PORTLAND CEMENT CONCRETE
CURB AND GUTTER



PRELIMINARY

CUT SLOPE TREATMENT
56+50 TO 61+25 LT

FOOTNOTE:

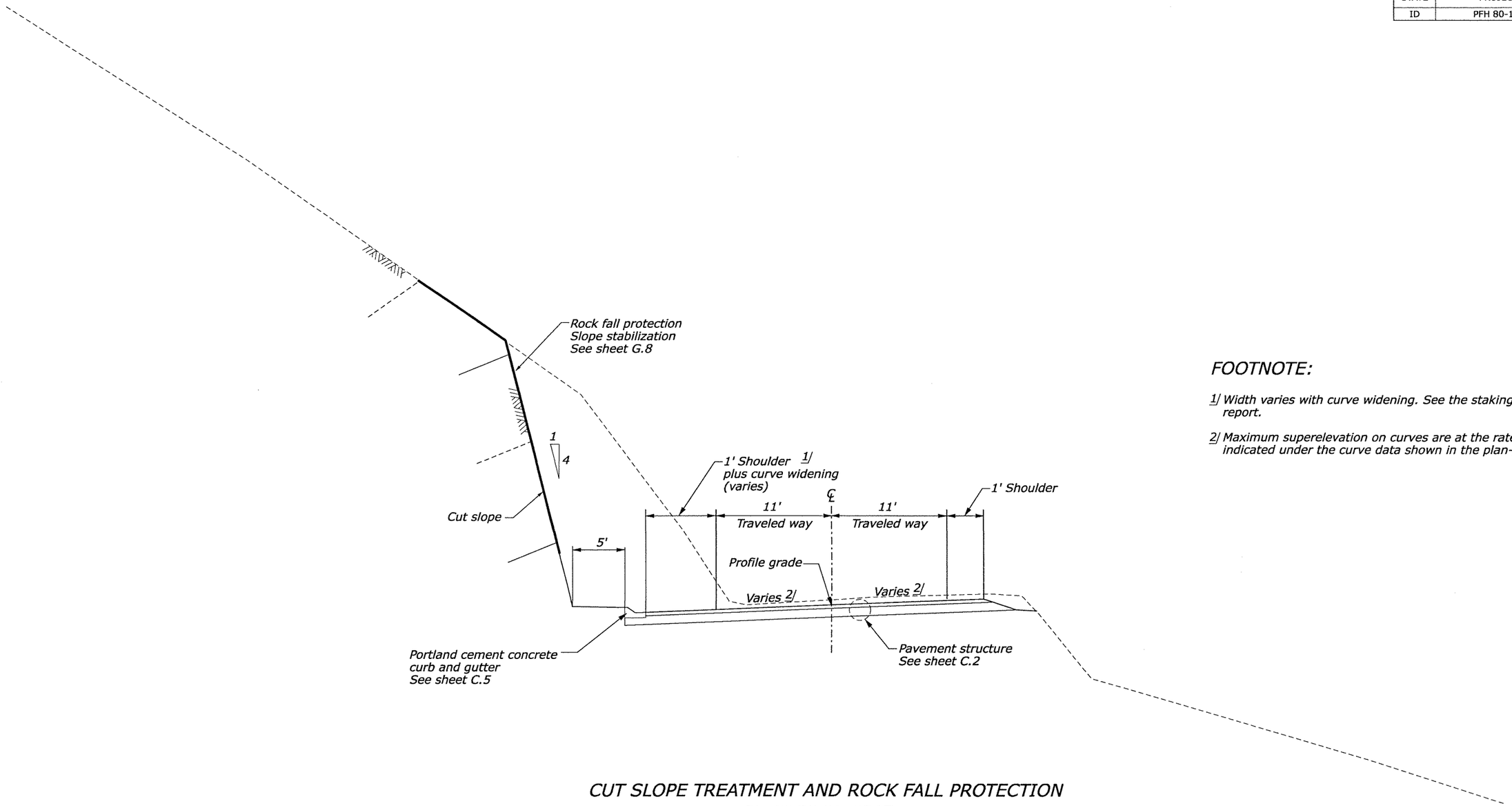
1/ Width varies with curve widening. See the staking detail report.

2/ Maximum superelevation on curves are at the rate 'e' as indicated under the curve data shown in the plan-profile.

CUT SLOPE TREATMENT
56+50 to 61+25 Lt.

F:\fha\5019\DPFH8011CD.dgn | 14-Aug-2007 03:30 PM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.6



CUT SLOPE TREATMENT AND ROCK FALL PROTECTION

76+50 TO 81+95 LT

FOOTNOTE:

1/ Width varies with curve widening. See the staking detail report.

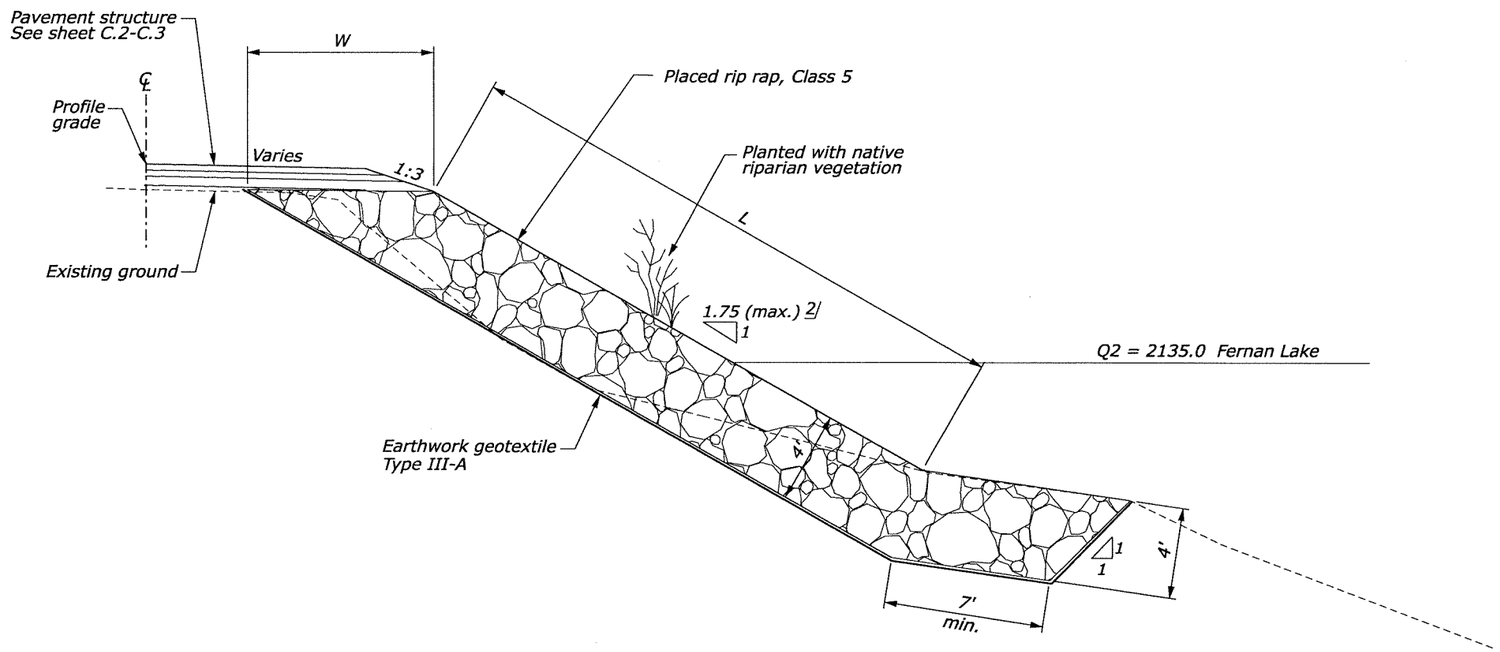
2/ Maximum superelevation on curves are at the rate 'e' as indicated under the curve data shown in the plan-profile.

PRELIMINARY

CUT SLOPE TREATMENT AND ROCK FALL PROTECTION 76+50 to 81+95 Lt.

F:\fha\5019\DPFH8011CI.dgn | 14-Aug-2007 03:31 PM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.7



RIP RAP EMBANKMENT

52+00 to 54+75 RT
72+00 to 77+50 RT
79+25 to 80+90 RT
87+80 to 89+30 RT
103+75 to 104+80 RT
200+00 to 216+00 RT 1/

NOTE:

1. *See sheet D.1 for quantities and dimensions L and W.*

FOOTNOTE:

1/ *Use placed riprap Class 4, 200+00 to 216+00 Rt..*

2/ *Construct slopes as shown in the Staking Report (see FAR 52.236-4).*

PRELIMINARY

RIP RAP EMBANKMENT TYPICAL SECTION

Designed by: Matt Ulberg 2/2006 | Checked by: Vaughn Anderson 2/2006

14-Aug-2007 03:31 PM

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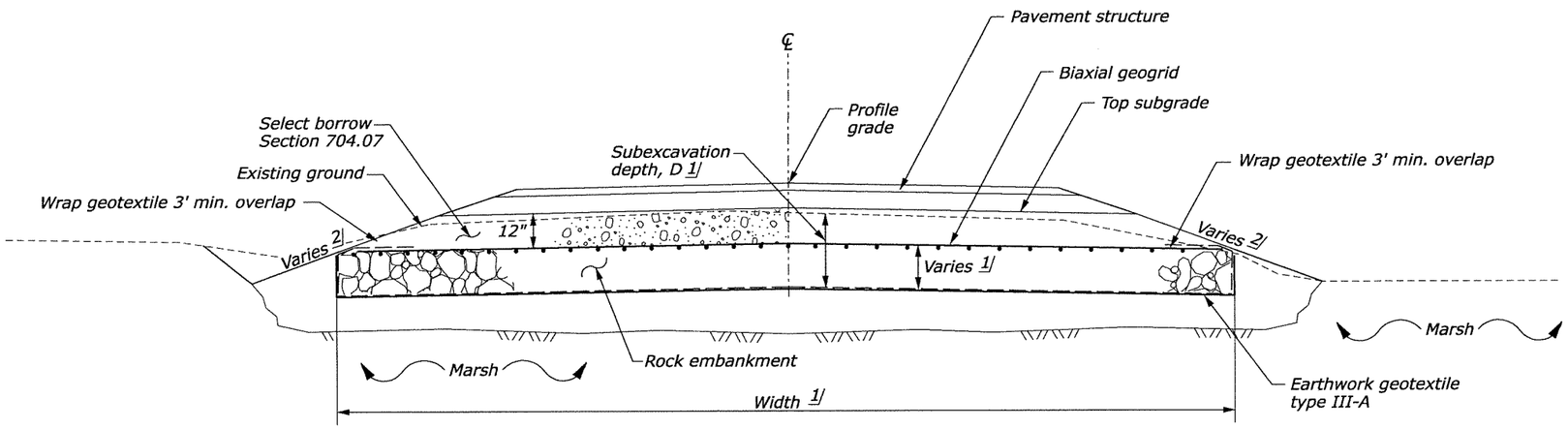
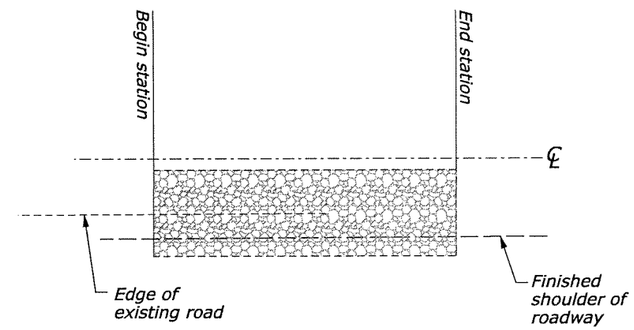
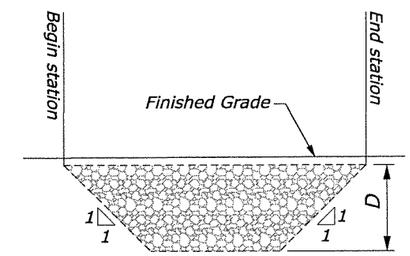
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.8



SUBEXCAVATION STABILIZATION TYPE I
FULL WIDTH

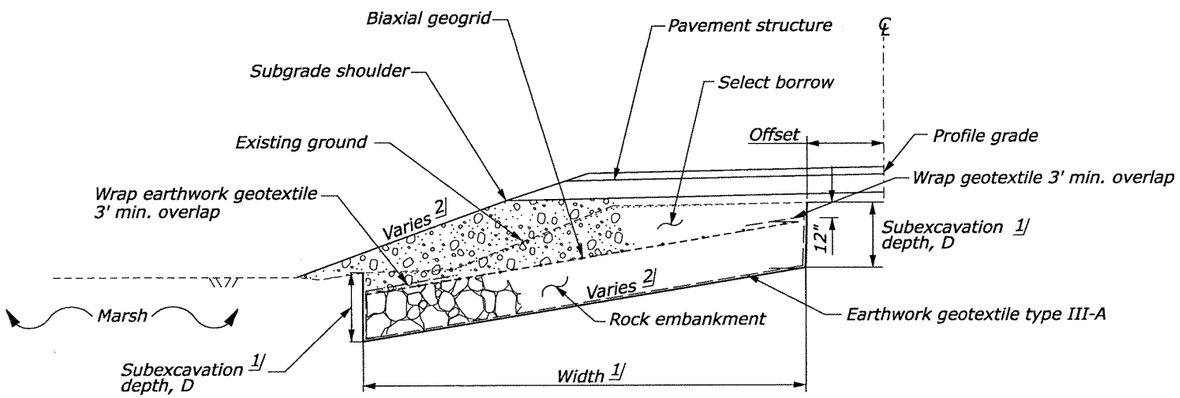


PLAN



ELEVATION

SUBEXCAVATION STABILIZATION TYPE I
PARTIAL WIDTH



SUBEXCAVATION STABILIZATION TYPE I
PARTIAL WIDTH

PRELIMINARY

NOTE:

1. Quantities are shown on sheet D.2
2. See sheets C.2-C.3 for pavement structure details.

FOOTNOTE:

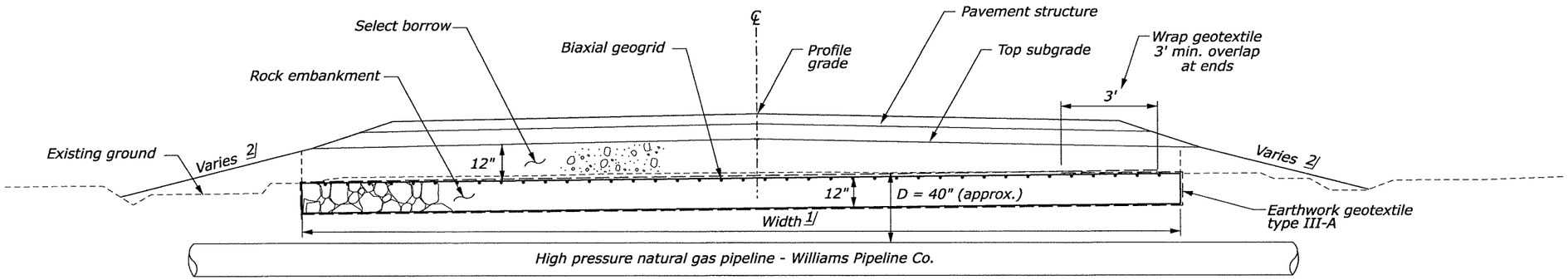
1/ See table sheet D.2

2/ Construct slopes as shown in the staking report. (See FAR 52.236-4)

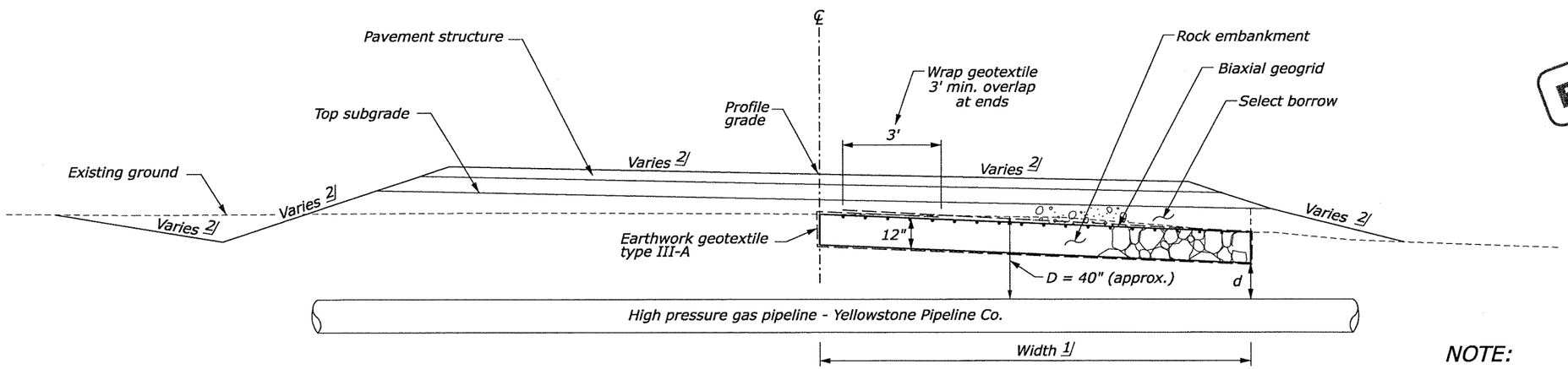
TYPE I SUBEXCAVATION TYPICAL DETAILS

F:\fha\5019\DPFH8011CE.dgn | 14-Aug-2007 03:38 PM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.9



SUBEXCAVATION STABILIZATION TYPE I
HIGH PRESSURE NATURAL GAS PIPELINE CROSSING
184+45 to 184+85 1/



PRELIMINARY

SUBEXCAVATION STABILIZATION TYPE I
HIGH PRESSURE GAS PIPELINE CROSSING
192+00 to 193+00 1/

NOTE:

1. Quantities are shown on sheet D.2
2. See sheets C.2-C.3 for pavement structure details.

FOOTNOTE:

1/ See table sheet D.2

2/ Construct slopes as shown in the staking report. (See FAR 52.236-4)

TYPE I SUBEXCAVATION TYPICAL DETAILS

Designed by: Matt Ulberg 2/2006
Checked by: Vaughn Anderson 2/2006
14-Aug-2007 03:39 PM
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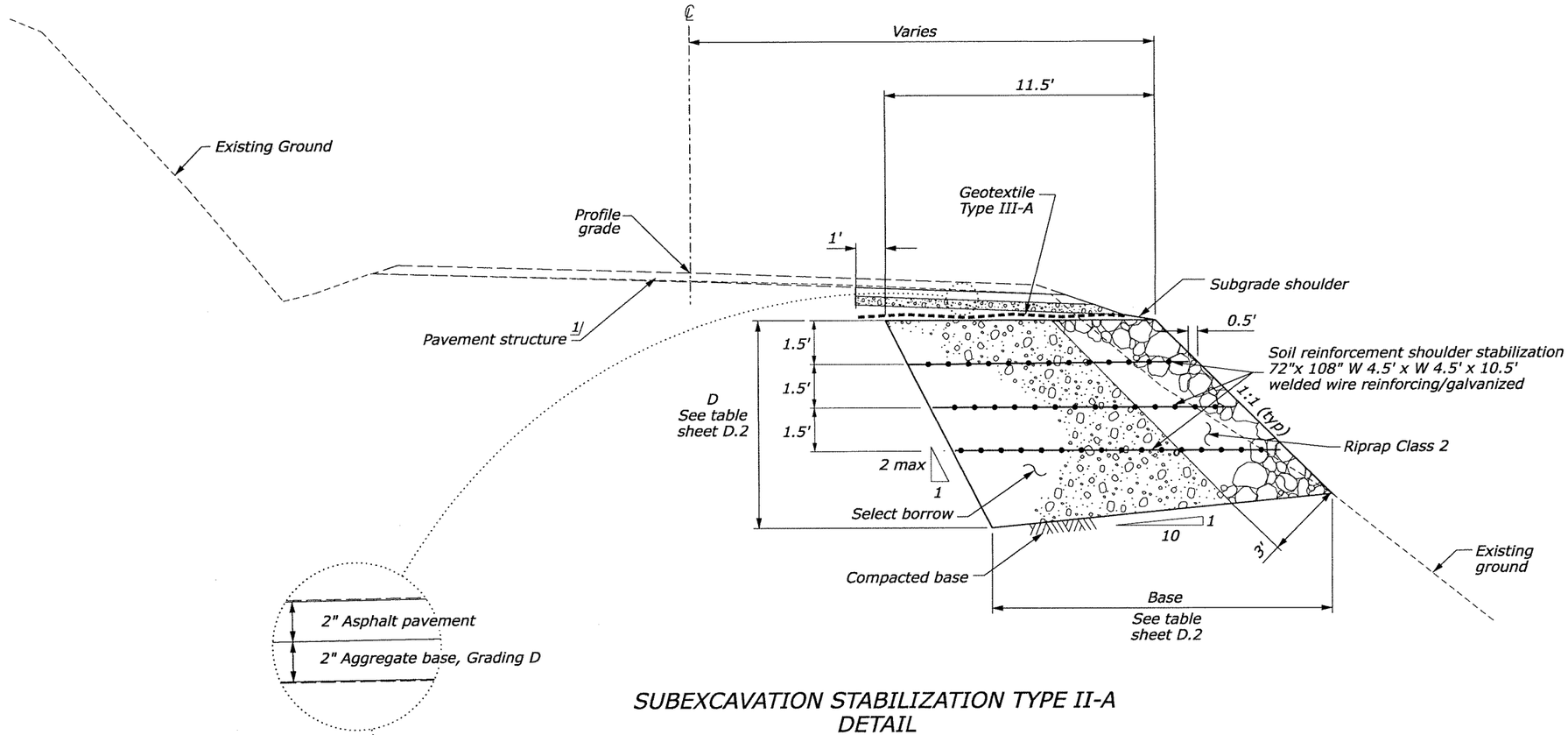
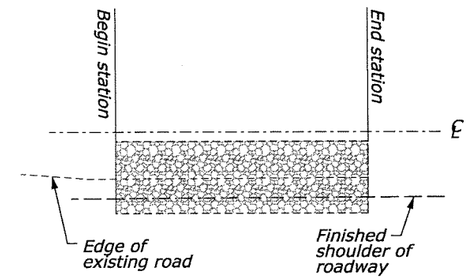
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.10

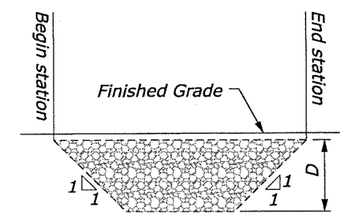


SUBEXCAVATION STABILIZATION TYPE II-A DETAIL

INTERMEDIATE PAVEMENT STRUCTURE 2/



PLAN

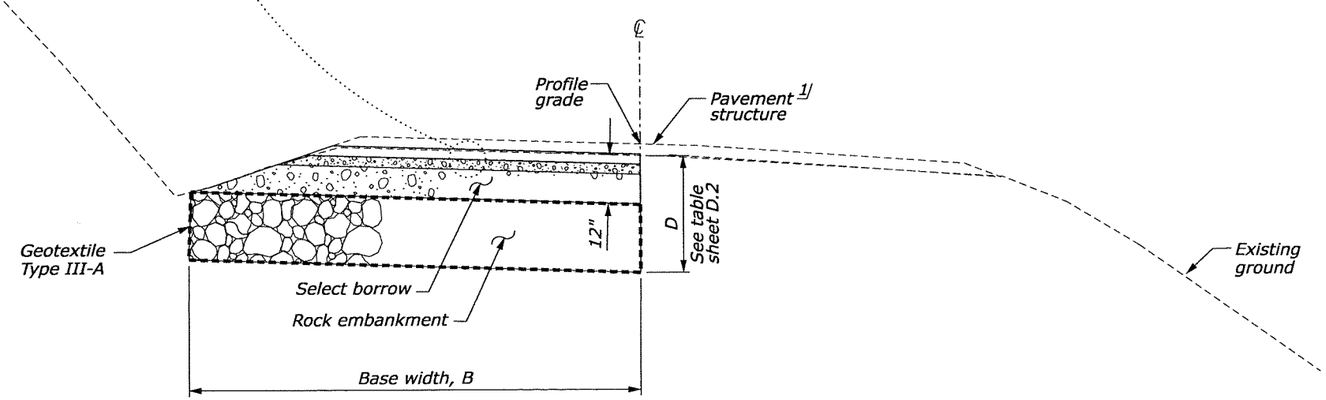


ELEVATION

FOOTNOTE:

1/ See sheets C.2-C.4 for pavement structure details.

2/ Intermediate pavement structure incidental. See Section 204.



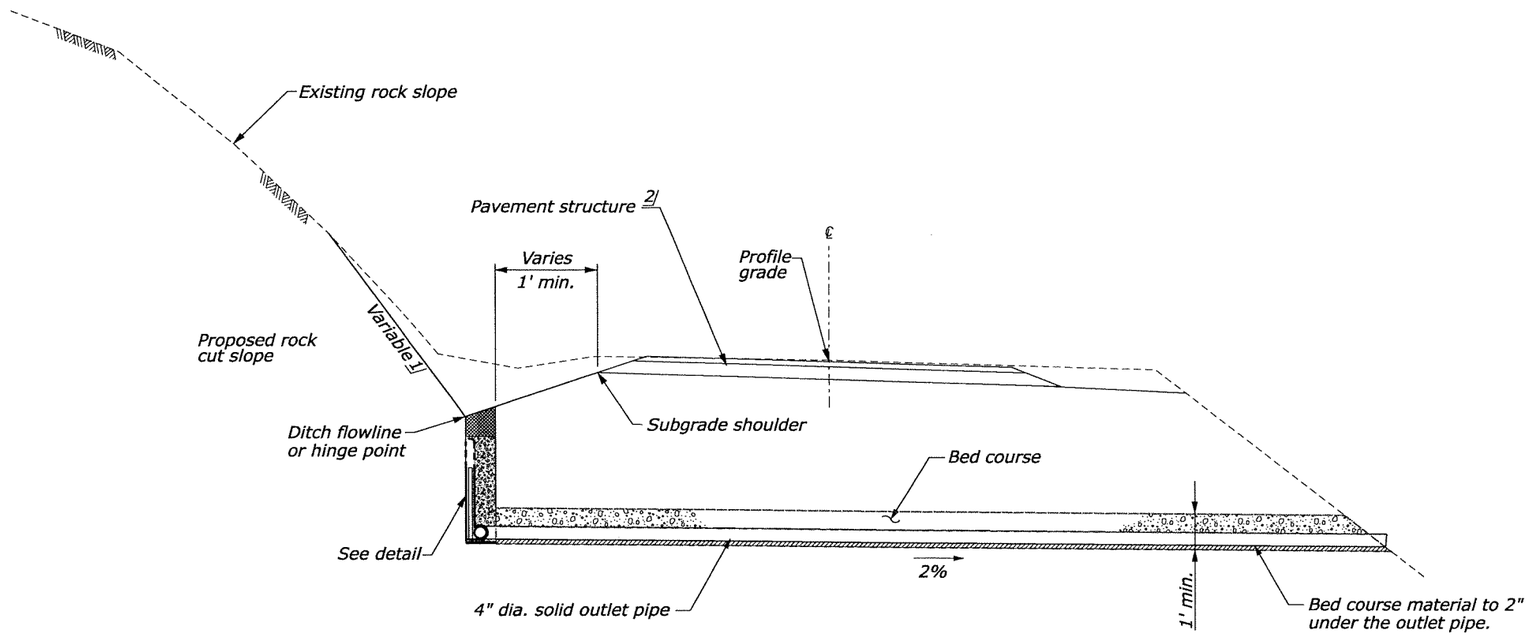
SUBEXCAVATION STABILIZATION TYPE II-B TYPICAL

PRELIMINARY

TYPE II SUBEXCAVATION TYPICAL DETAILS

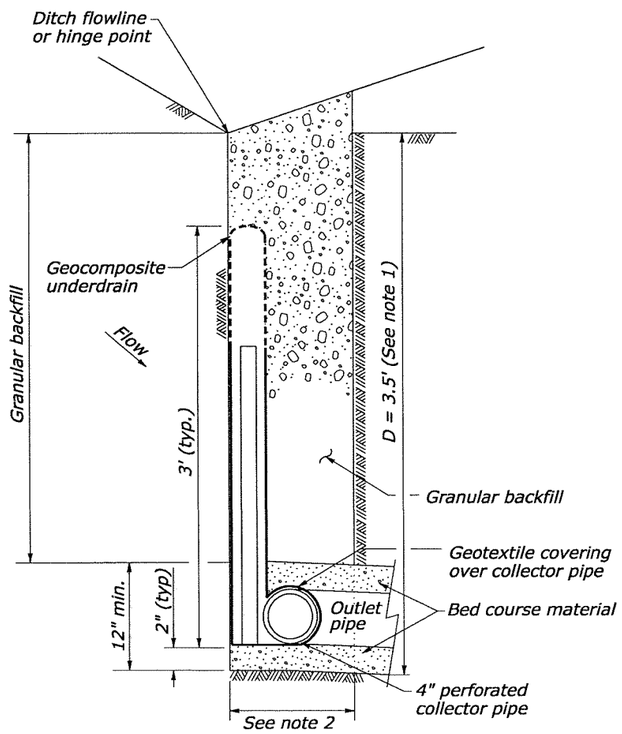
2/2006 Vaughn Anderson Checked by: 2/2006 Matt Ulberg Designed by: 17-Aug-2007 09:15 AM F:\fha\5019\DPFH8011CH.dgn

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.11

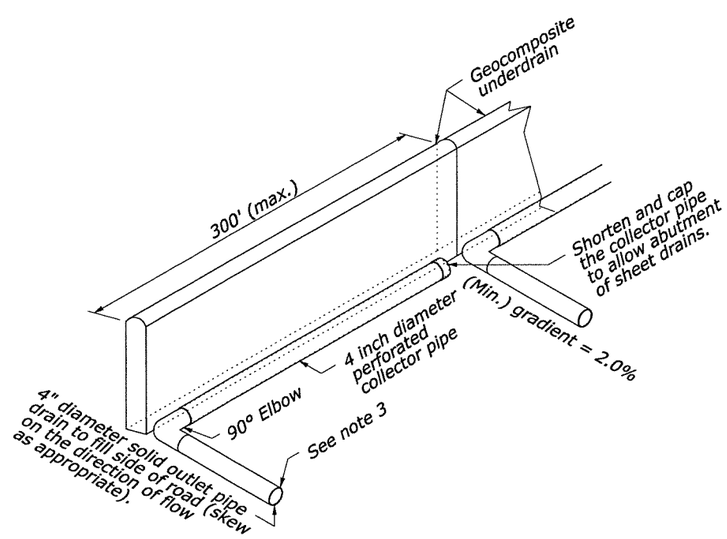


GEOCOMPSITE UNDERDRAIN SYSTEM

20+00 to 25+00
28+00 to 31+00



GEOCOMPOSITE UNDERDRAIN SYSTEM DETAIL



OUTLET PIPE DETAIL

NOTE:

1. Install underdrain at a 3.5 ft depth from ditch flow line unless otherwise shown. Construct the flowline gradient parallel to the roadway unless solid rock is encoutered or gradient is required at the outlet.
2. Use the minimum width required for installation in accordance with manufacturers recommendations.
3. Cover the end of the outlet pipe with galvanized No. 17 gage hardware cloth screen having approximately 1/2 " x 1/2 " mesh openings. Hold the screen securely in place with standard coupling bands or by other approved means.

FOOTNOTE:

1/ Construct slope as shown in the staking report (See FAR52.236-4)

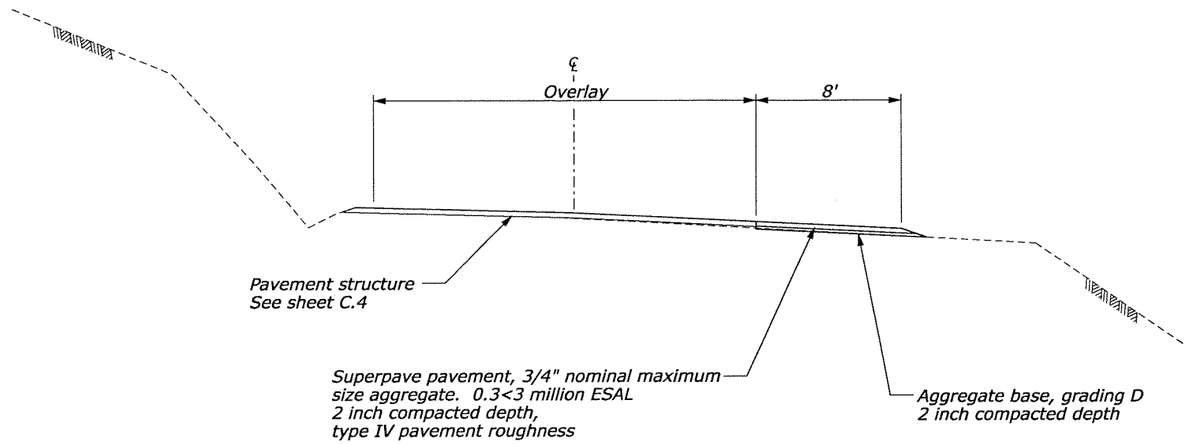
2/ See sheet C.2 for pavement structure details.

PRELIMINARY

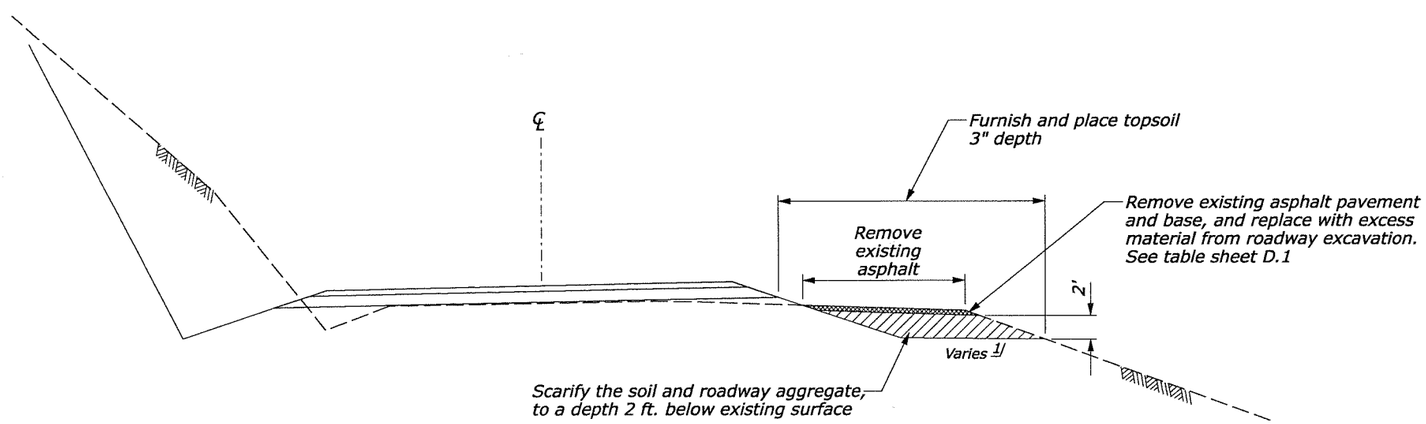
GEOCOMPOSITE UNDERDRAIN SYSTEM DETAILS

F:\fha\5019\IDPFH8011CG.dgn 14-Aug-2007 03:40 PM Designed by: Matt Ulberg 2/2006 Checked by: Vaughn Anderson 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	C.12



FERNAN LAKE ROAD
TYPICAL TURNOUT SECTION
FOR TURNOUTS 283+74 to 556+59.67
SEE SECTION E FOR OTHER DETAILS



PRELIMINARY

OBLITERATION DETAIL

FOOTNOTE:

1/ Construct slope as shown in the staking report (See FAR52.236-4)

OVERLAY TYPICAL TURNOUT SECTION & OBLITERATION DETAILS

F:\fha\5019\IDPFH8011CK.dgn | 14-Aug-2007 03:41 PM | Designed by: Matt Ulberg 2/2006 | Checked by: Vaughn Anderson 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.6

UTILITY CONTACTS:

Natural Gas Williams Gas Pipeline - West
1022 East Hawthorne Road
Spokane, WA 99218
Contact: Mike Moore, Operations (509)466-6650
or Paulette Warren (509)466-6650
(509)990-5916

Gasoline/Diesel Yellowstone Pipeline Co.
6317 East Sharp Ave.
Spokane, WA 99212
Contact: Kim Barre Office (509)536-8414
Cell (509)220-1885

Electric Kootenai Electric Cooperative
2451 West Dakota Avenue
Hayden Lake, ID 83835
Contact: Oral Hamilton, (208)765-1200, cell (208)660-3431
(208)292-3290

Avista Utilities (10+00 to 13+50 only)
1735 North
Coeur d Alene, ID 83814
Contact: Tom Burke (208)769-1341

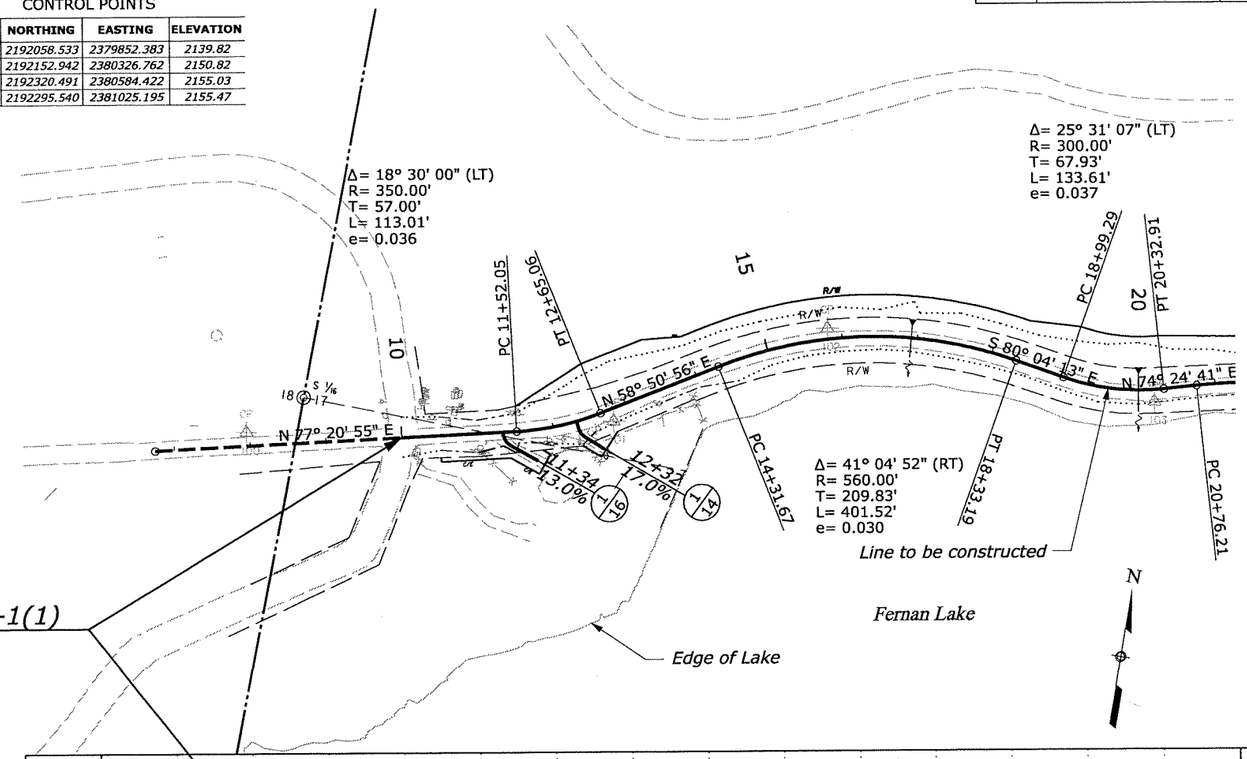
Telephone Verizon
Mike Busse, Network Engineering
2115 Government Way
PO Box 600
Coeur d Alene, ID 83814
Contact: (208)765-7955

Cable TV Time Warner Cable
Tom Howe
2305 West Kathleen Ave.
Coeur d Alene, ID 83815
208-667-1785

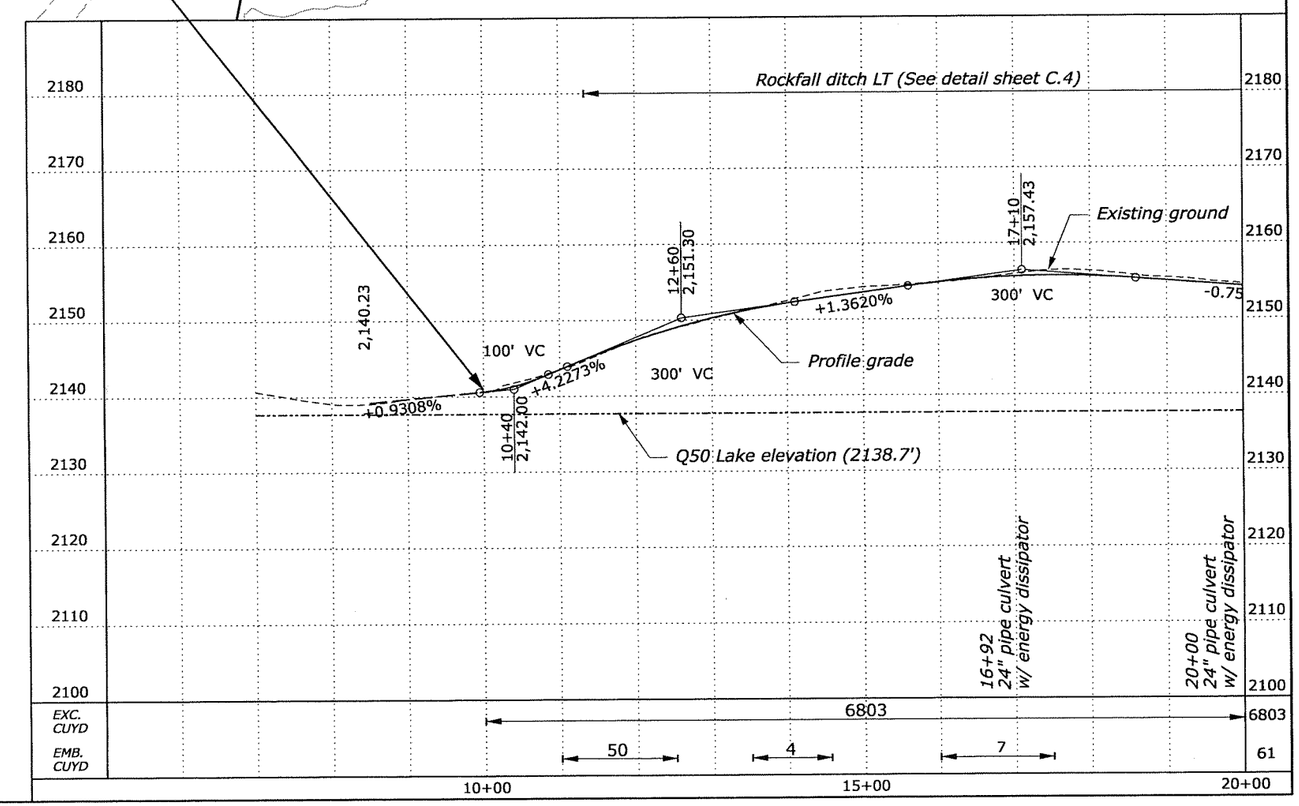
CONTROL POINTS

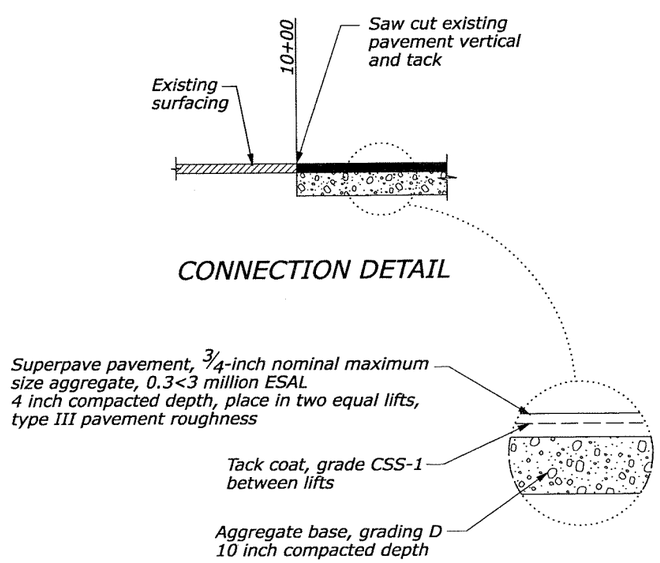
NAME	NORTHING	EASTING	ELEVATION
CP100	2192058.533	2379852.383	2139.82
CP101	2192152.942	2380326.762	2150.82
CP102	2192320.491	2380584.422	2155.03
CP103	2192295.540	2381025.195	2155.47

PRELIMINARY



BEGIN PROJECT ID PFH 80-1(1)
FERNAN LAKE ROAD
10+00.00
N 2192085.255
E 2380055.389
Elev. 2141.945





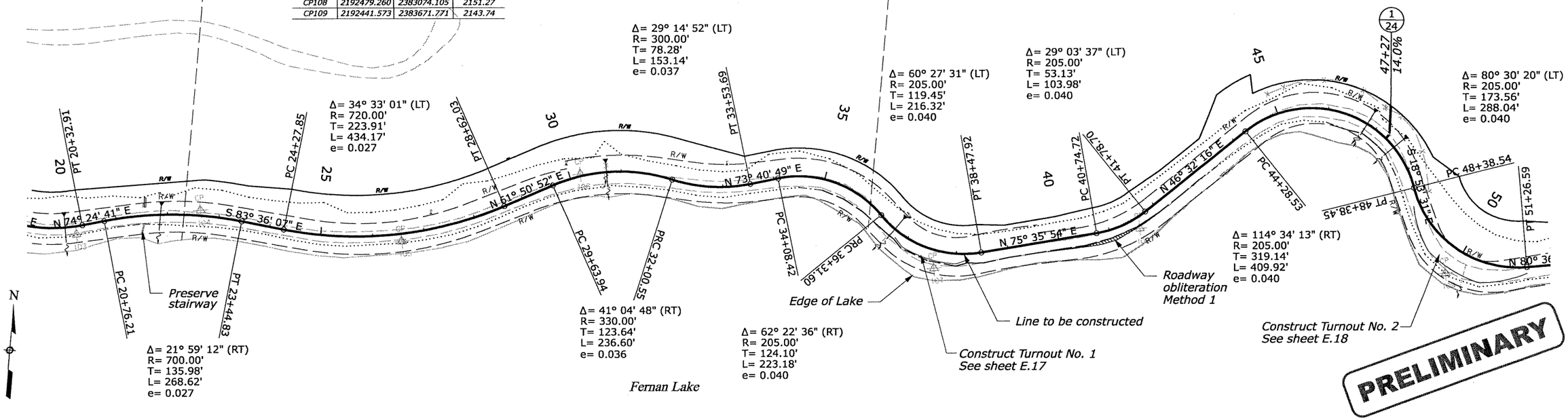
CONNECTION DETAIL

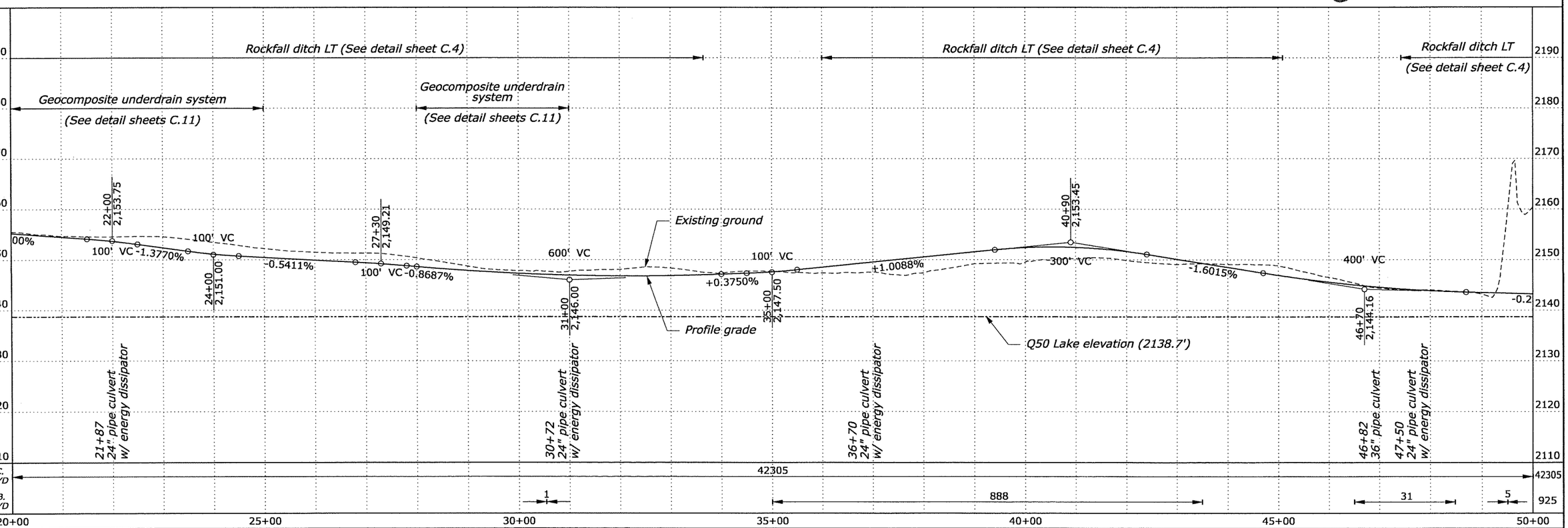
2/2006 | Vaughn Anderson | Checked by: | 2/2006 | Matt Ulberg | Designed by: | 14-Aug-2007 03:46 PM | F:\fha\5019\DPFH8011FA.dgn

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.7

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP103	2192295.540	2381025.195	2155.47
CP104	2192362.052	2381261.291	2154.56
CP105	2192334.080	2381653.386	2150.78
CP106	2192492.872	2381985.685	2147.08
CP107	2192368.394	2382683.328	2149.66
CP108	2192479.260	2383074.105	2151.27
CP109	2192441.573	2383671.771	2143.74



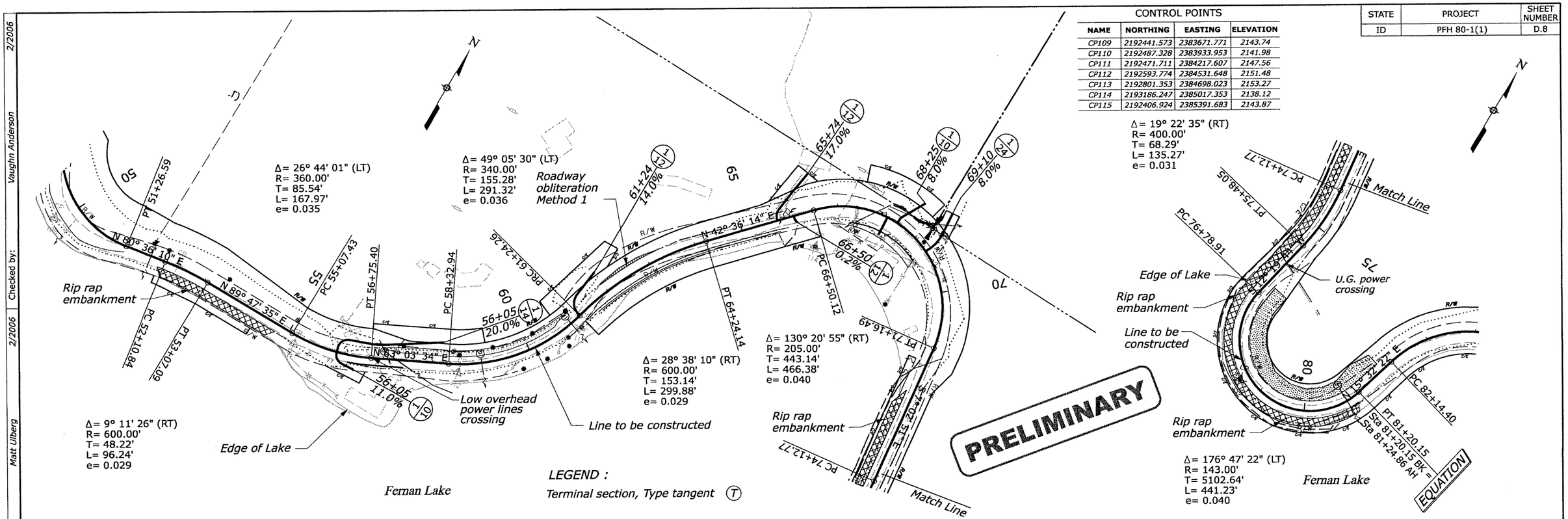


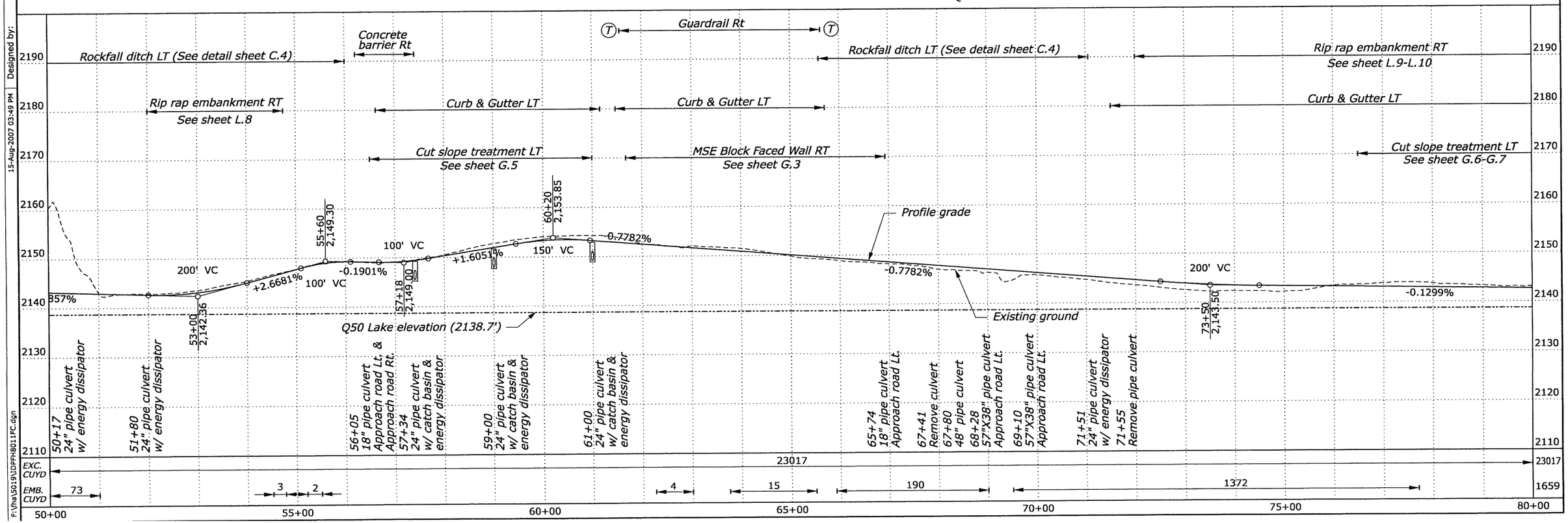
Designed by: Matt Ulberg 2/2006 | Checked by: Vaughn Anderson 2/2006 | 14-Aug-2007 03:47 PM | F:\fha\5019\DPFH8011FB.dgn

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.8

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP109	2192441.573	2383671.771	2143.74
CP110	2192487.328	2383933.953	2141.98
CP111	2192471.711	2384217.607	2147.56
CP112	2192593.774	2384531.648	2151.48
CP113	2192801.353	2384698.023	2153.27
CP114	2193186.247	2385017.353	2138.12
CP115	2192406.924	2385391.683	2143.87

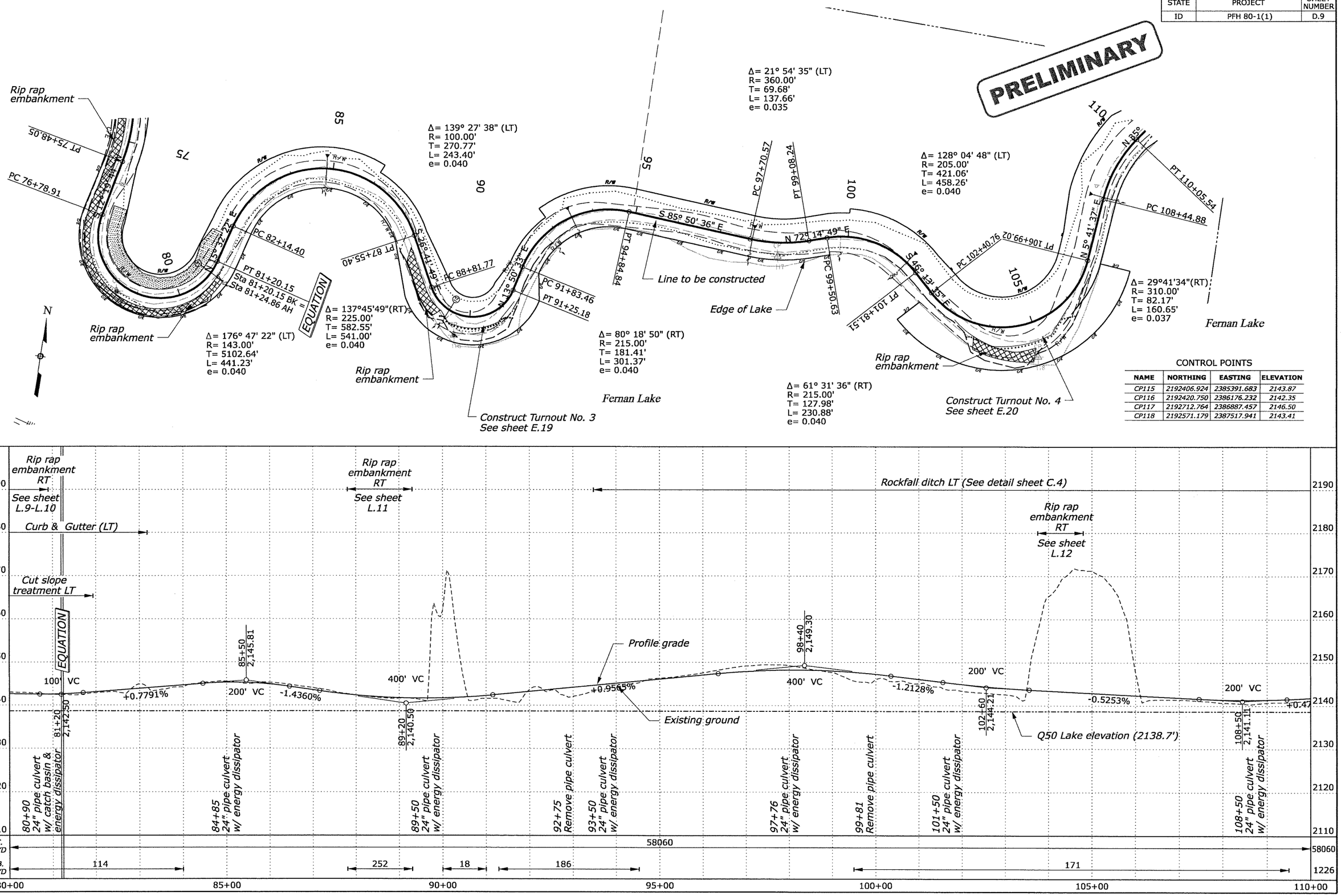




Designed by: Matt Ulberg | Checked by: Vaughn Anderson | 2/2006 | 2/2006 | 15-Aug-2007 03:49 PM | F:\fha\5019\DPFH8011FC.dgn

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.9

PRELIMINARY



CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP115	2192406.924	2385391.683	2143.87
CP116	2192420.750	2386176.232	2142.35
CP117	2192712.764	2386887.457	2146.50
CP118	2192571.179	2387517.941	2143.41

Designed by: Matt Ulberg 2/2006
Checked by: Vaughn Anderson 2/2006
15-Aug-2007 06:35 AM
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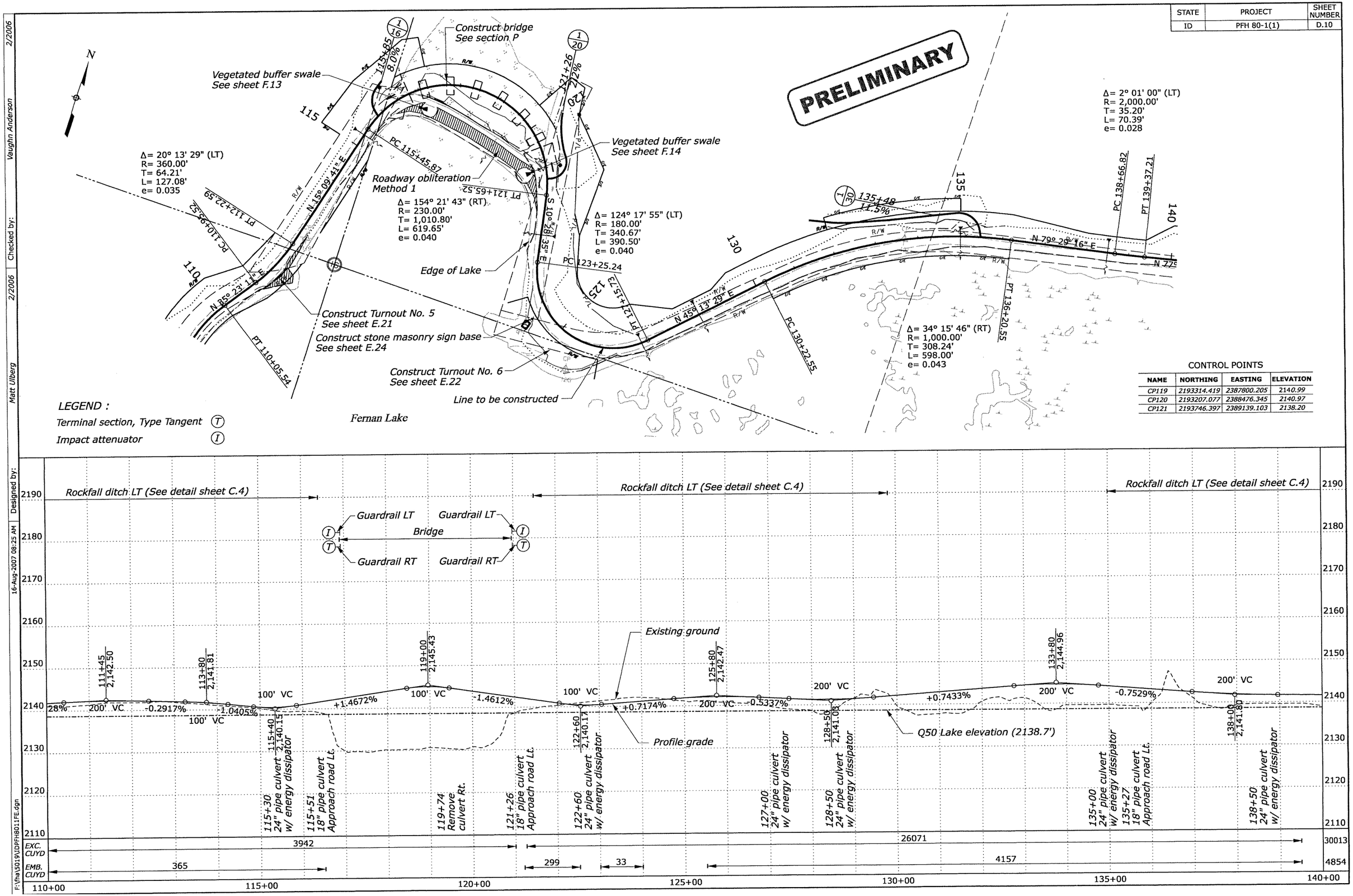
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.10



CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP119	2193314.419	2387800.205	2140.99
CP120	2193207.077	2388476.345	2140.97
CP121	2193746.397	2389139.103	2138.20

Designed by: Matt Ulberg
Checked by: Vaughn Anderson
2/2006
2/2006
16-Aug-2007 08:25 AM
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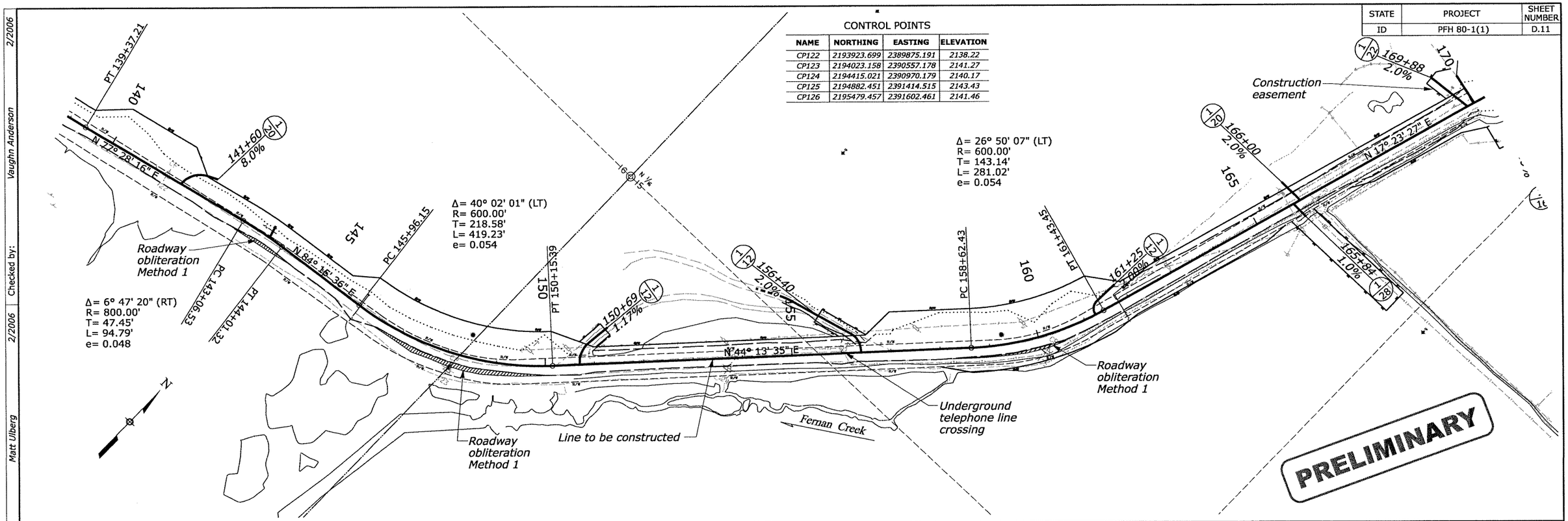
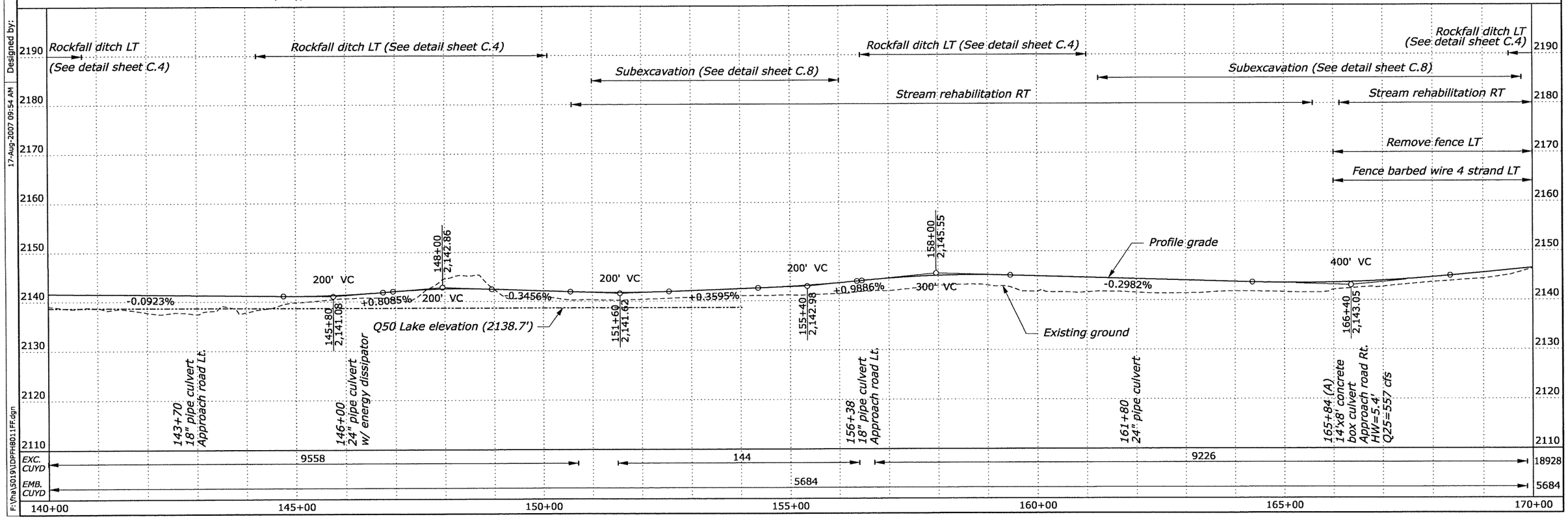
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.11

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP122	2193923.699	2389875.191	2138.22
CP123	2194023.158	2390557.178	2141.27
CP124	2194415.021	2390970.179	2140.17
CP125	2194882.451	2391414.515	2143.43
CP126	2195479.457	2391602.461	2141.46





Designed by: Vaughn Anderson 2/2006
Checked by: Matt Ulberg 2/2006
17-Aug-2007 09:54 AM
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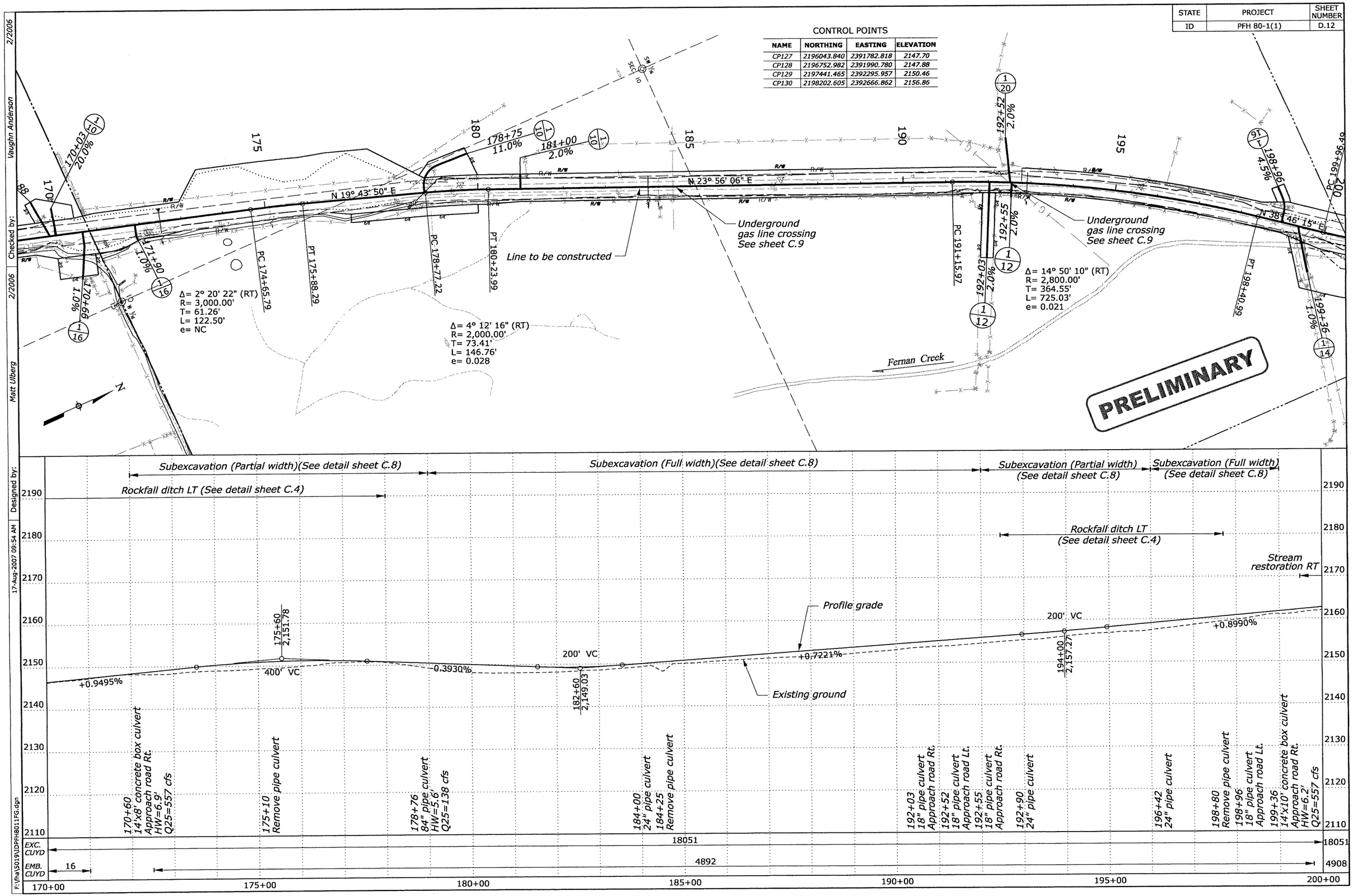
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.12

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP127	2196043.840	2391782.818	2147.70
CP128	2196752.982	2391990.780	2147.88
CP129	2197441.465	2392295.957	2150.46
CP130	2198202.605	2392666.862	2156.86



Designed by: Matt Ulberg 2/2006
Checked by: Vaughn Anderson 2/2006
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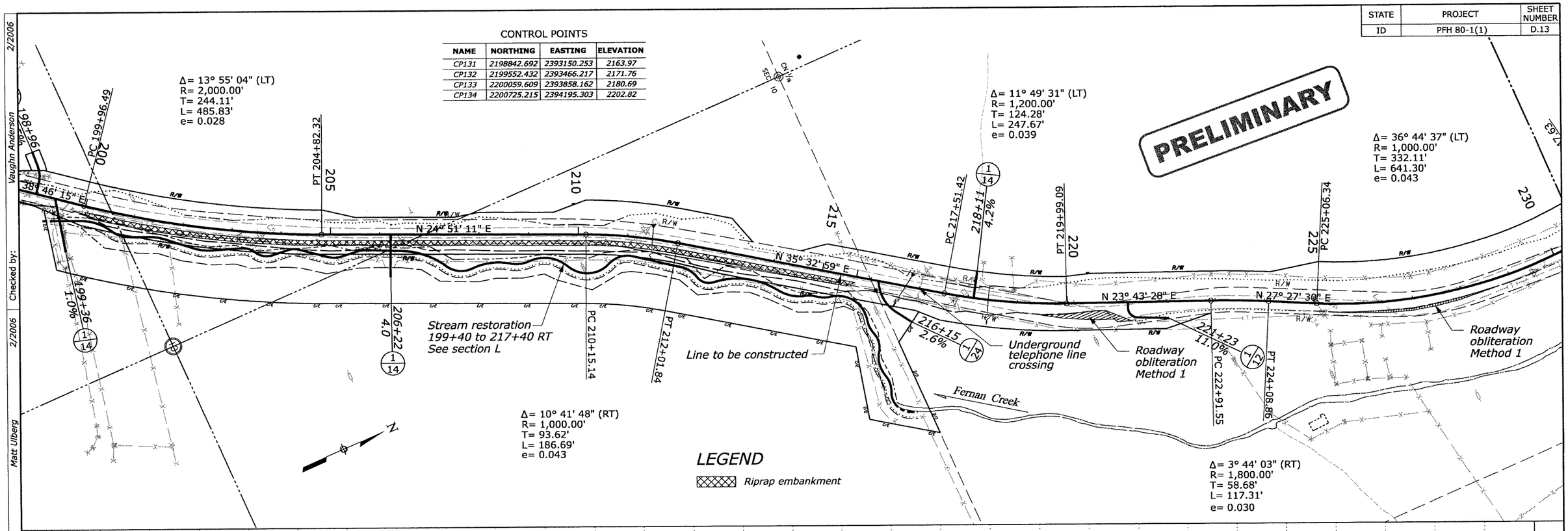
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.13

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP131	2198842.692	2393150.253	2163.97
CP132	2199552.432	2393466.217	2171.76
CP133	2200059.609	2393858.162	2180.69
CP134	2200725.215	2394195.303	2202.82



Designed by: Vaughn Anderson
Checked by: Matt Ulberg
2/2006
15-Aug-2007 06:38 AM
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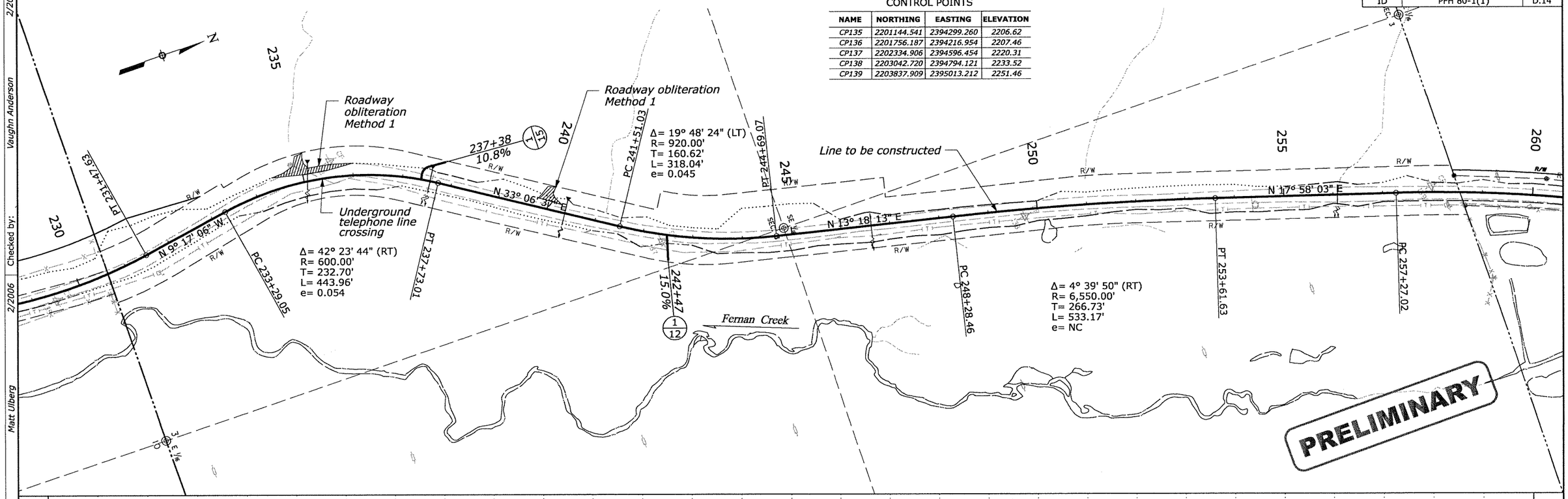
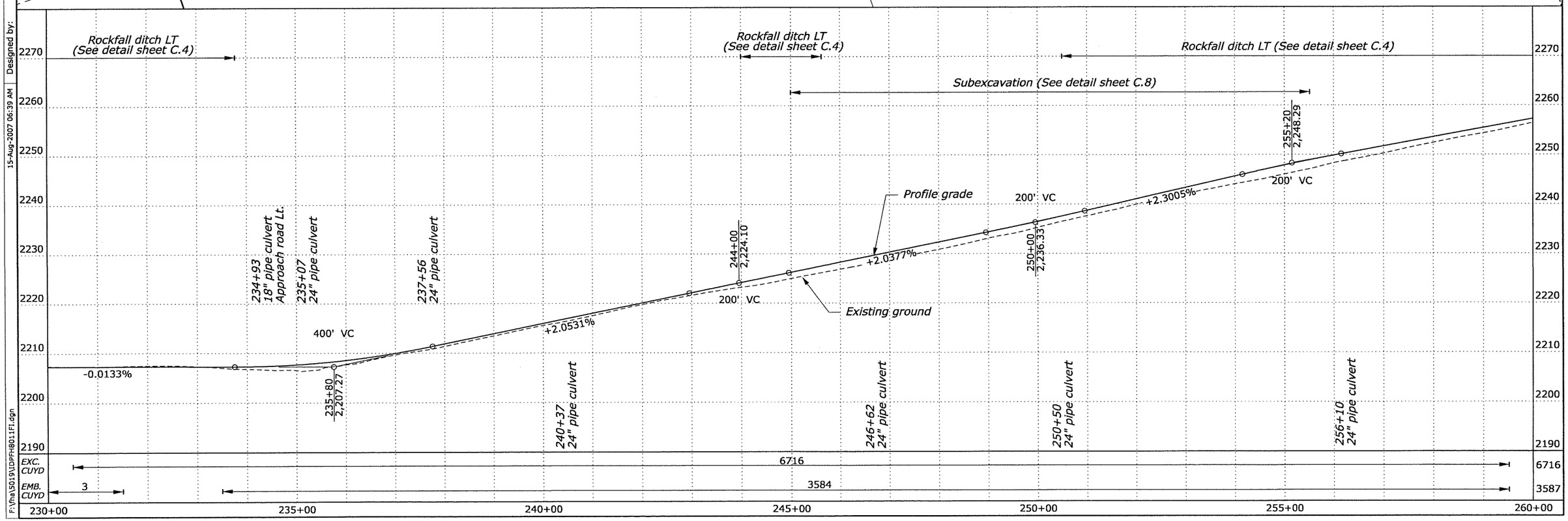
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.14

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP135	2201144.541	2394299.260	2206.62
CP136	2201756.187	2394216.954	2207.46
CP137	2202334.906	2394596.454	2220.31
CP138	2203042.720	2394794.121	2233.52
CP139	2203837.909	2395013.212	2251.46





Designed by: Matt Ulberg
Checked by: Vaughn Anderson
2/2006
2/2006
15-Aug-2007 06:39 AM
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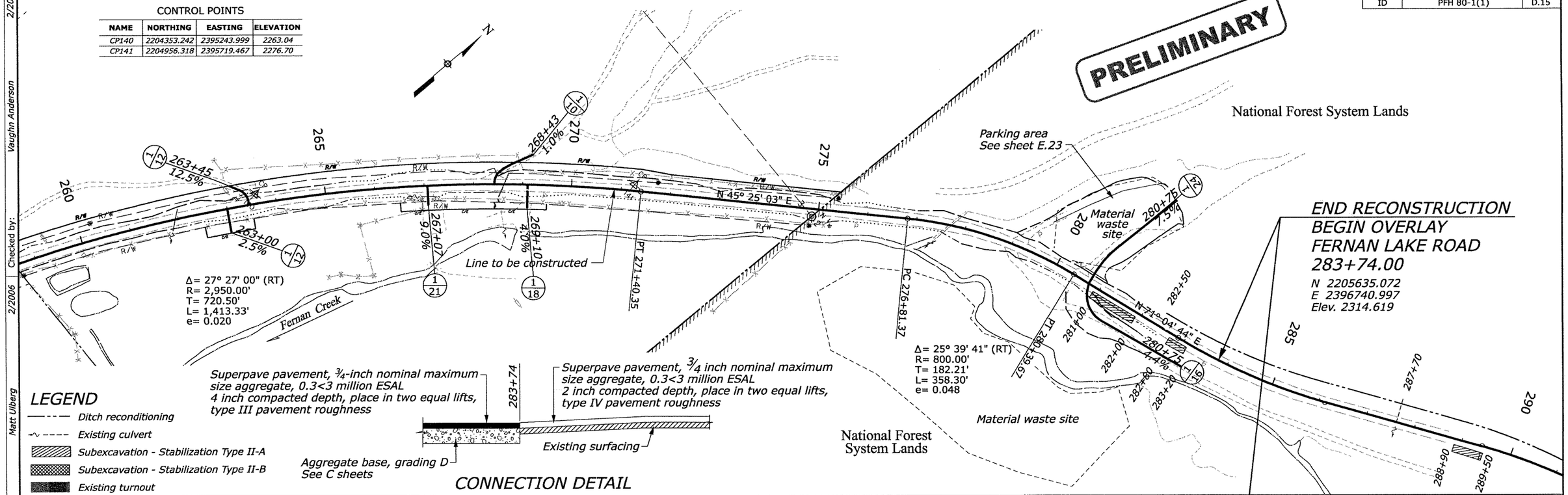
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.15

CONTROL POINTS

NAME	NORTHING	EASTING	ELEVATION
CP140	2204353.242	2395243.999	2263.04
CP141	2204956.318	2395719.467	2276.70

PRELIMINARY



2/2006 Vaughn Anderson Checked by: 2/2006 Matt Ulberg Designed by: 15-Aug-2007 06:40 AM F:\fha\5019\DPFH8011FJ.dgn

STATE	PROJECT	SHEET NUMBER
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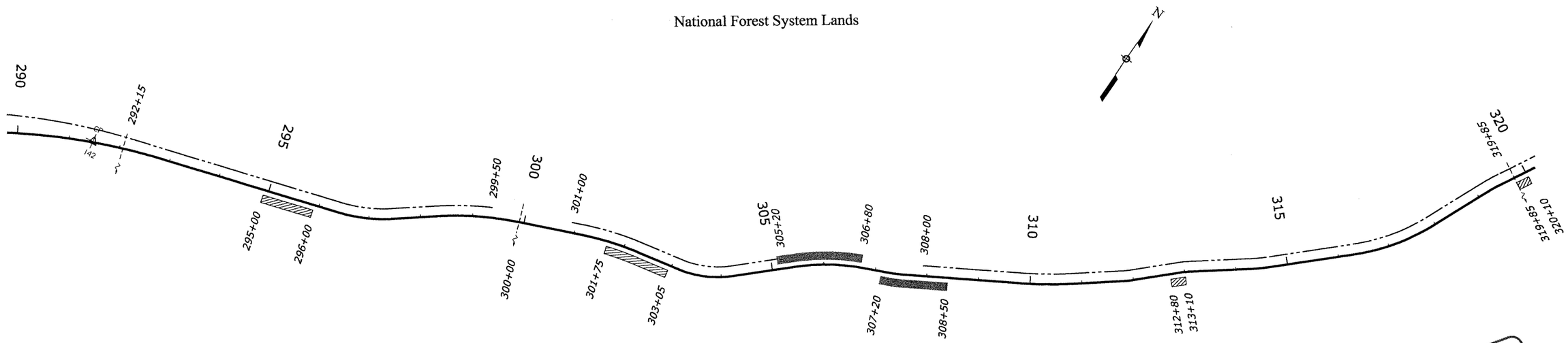


LEGEND

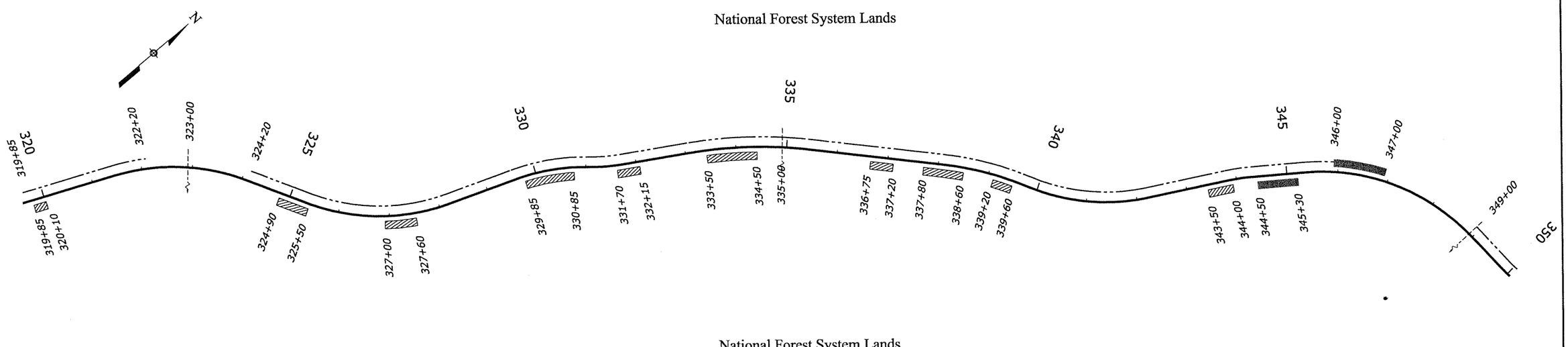
- Ditch reconditioning
- Existing culvert
- Subexcavation - Stabilization Type II-A
- Subexcavation - Stabilization Type II-B
- Existing turnout

NOTE:

See details sheet C.10 for subexcavation stabilization Type II-A and Type II-B

National Forest System Lands

PRELIMINARY



National Forest System Lands

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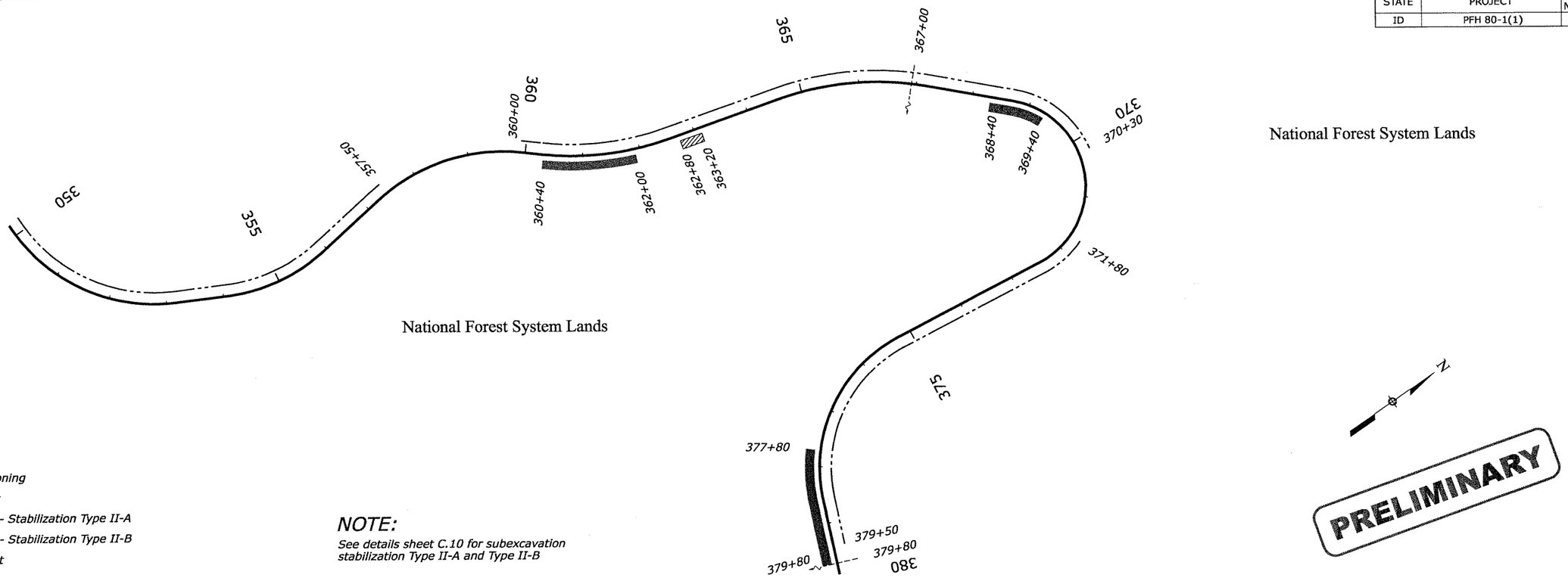
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.17

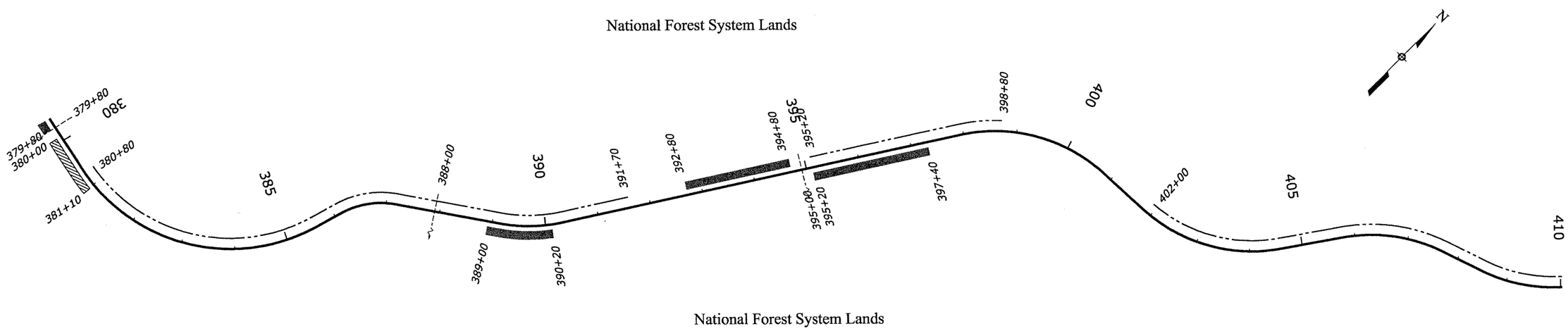


LEGEND

- Ditch reconditioning
- Existing culvert
- Subexcavation - Stabilization Type II-A
- Subexcavation - Stabilization Type II-B
- Existing turnout

NOTE:

See details sheet C.10 for subexcavation stabilization Type II-A and Type II-B



Designed by: 15-Aug-2007 06:42 AM
Checked by: 2/2006 Matt Ulberg
2/2006 Vaughn Anderson

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STATE	PROJECT	SHEET NUMBER
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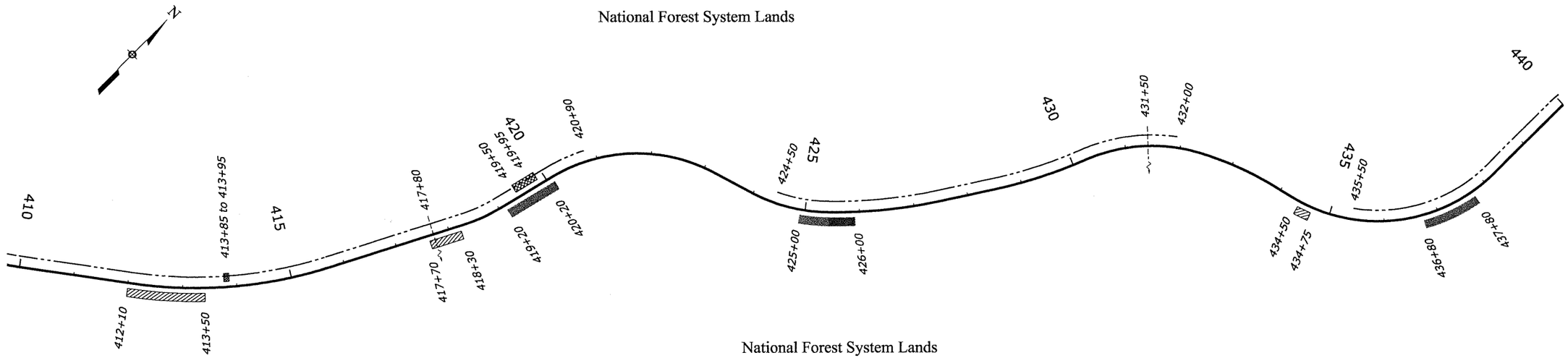


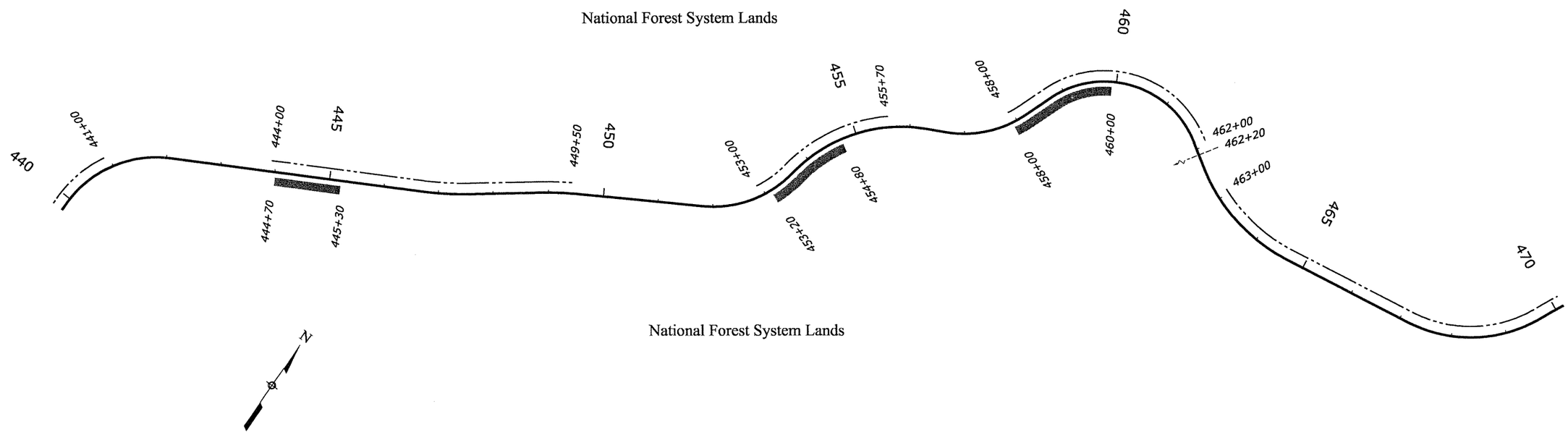
LEGEND

- Ditch reconditioning
- Existing culvert
- Subexcavation - Stabilization Type II-A
- Subexcavation - Stabilization Type II-B
- Existing turnout

NOTE:

See details sheet C.10 for subexcavation stabilization Type II-A and Type II-B

PRELIMINARY



Designed by: 15-Aug-2007 06:42 AM
Checked by: 2/2006 Matt Ulberg
2/2006 Vaughn Anderson
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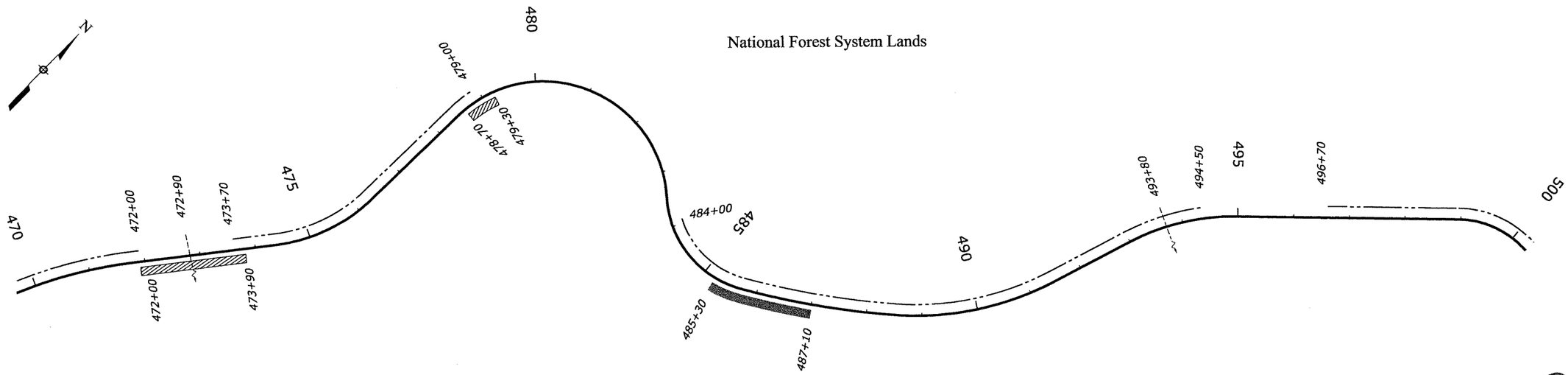
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.19



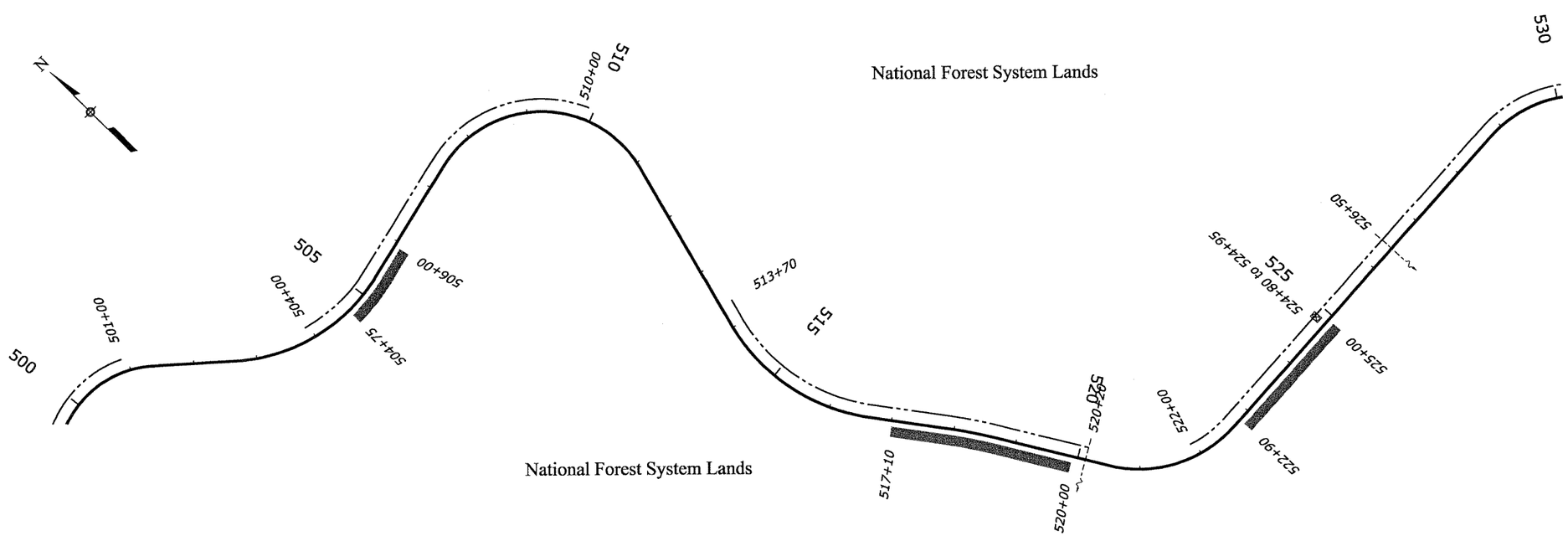
PRELIMINARY

LEGEND

- Ditch reconditioning
- Existing culvert
- Subexcavation - Stabilization Type II-A
- Subexcavation - Stabilization Type II-B
- Existing turnout

NOTE:

See details sheet C.10 for subexcavation stabilization Type II-A and Type II-B



Designed by: 15-Aug-2007 06:43 AM
Checked by: 2/2006 Matt Ulberg
Vaughn Anderson 2/2006

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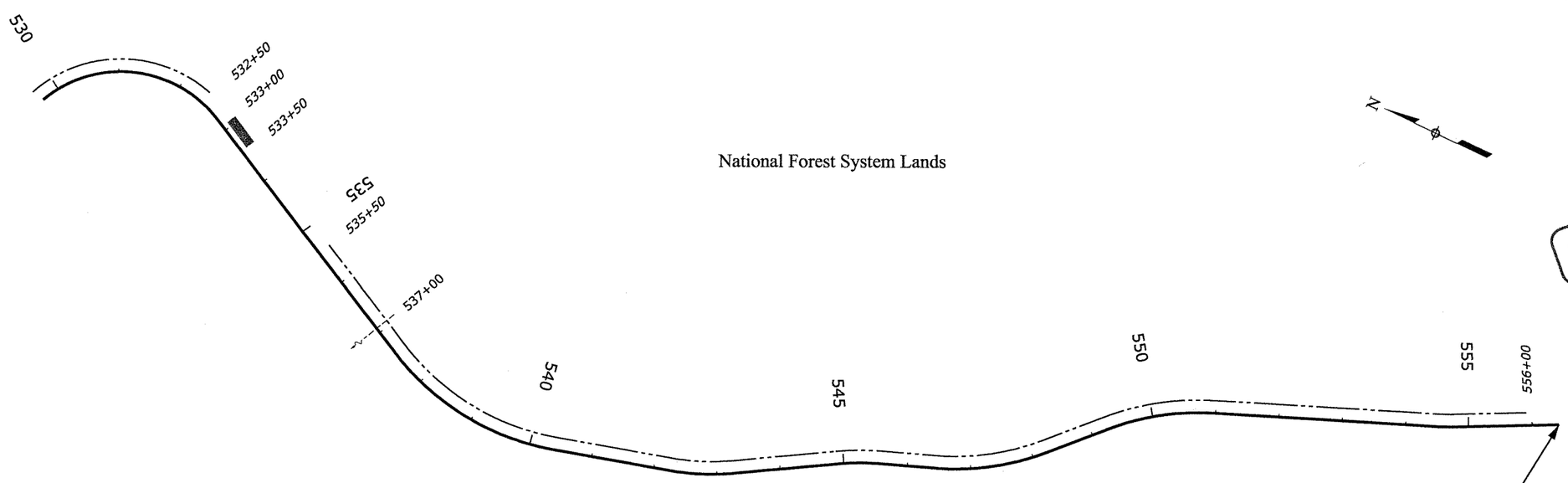
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	D.20



PRELIMINARY

LEGEND

- Ditch reconditioning
- Existing culvert
- Subexcavation - Stabilization Type II-A
- Subexcavation - Stabilization Type II-B
- Existing turnout

NOTE:
See details sheet C.10 for subexcavation stabilization Type II-A and Type II-B

END OVERLAY
END PROJECT ID PFH 80-1(1)
FERNAN LAKE ROAD
556+69.67

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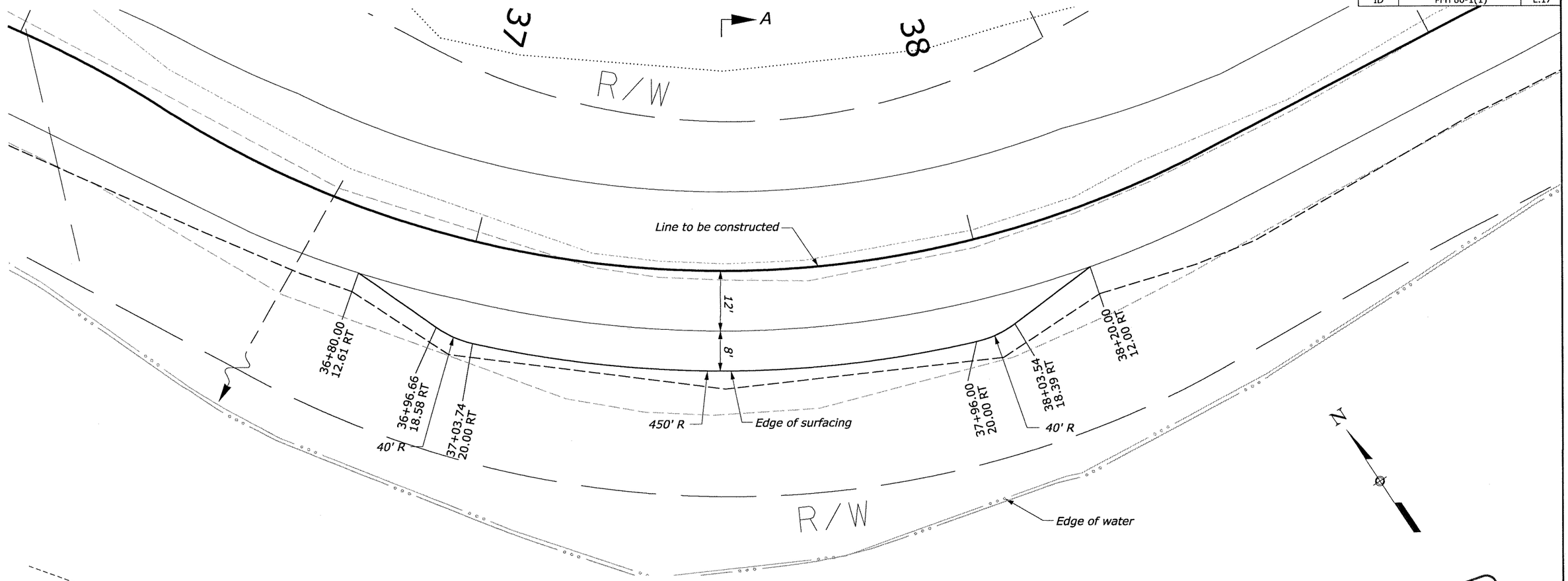
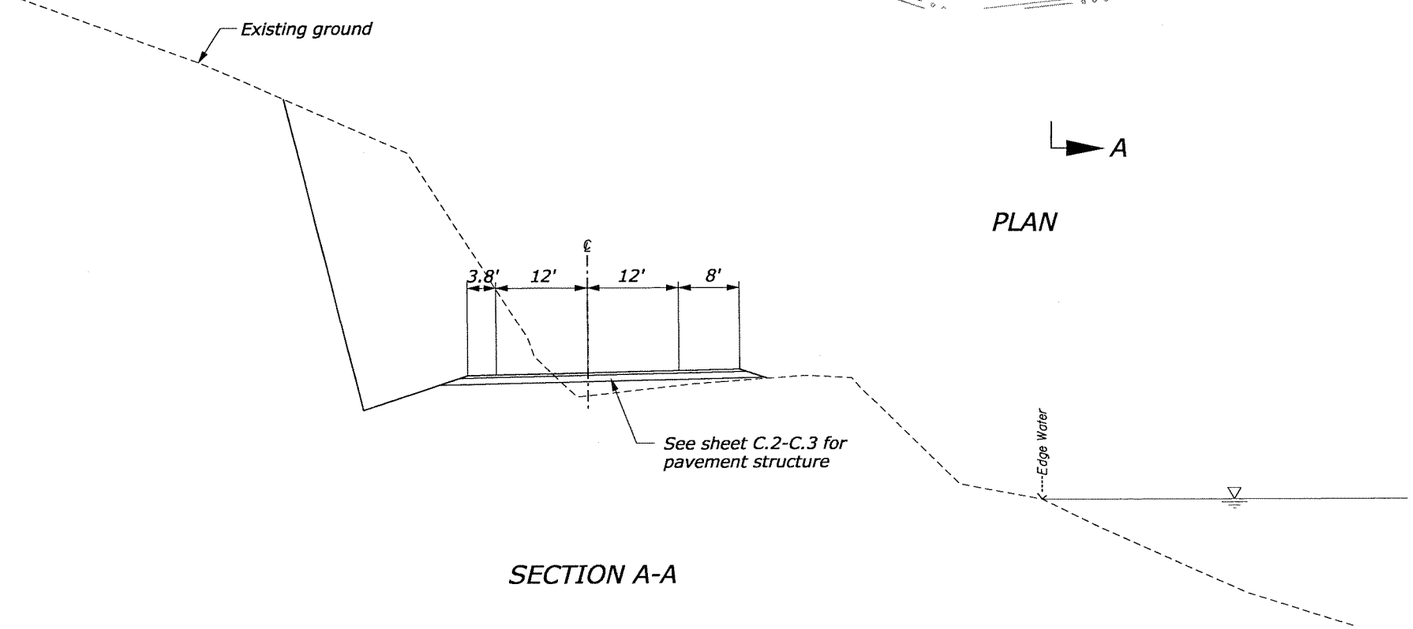
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.17



PRELIMINARY



PLAN

SECTION A-A

NOTE:

1. See sheet C.4 for ditch details.

TURNOUT NO. 1 DETAIL

Designed by: Matt Ulberg 2/2006
Checked by: Vaughn Anderson 2/2006
15-Aug-2007 07:32 AM
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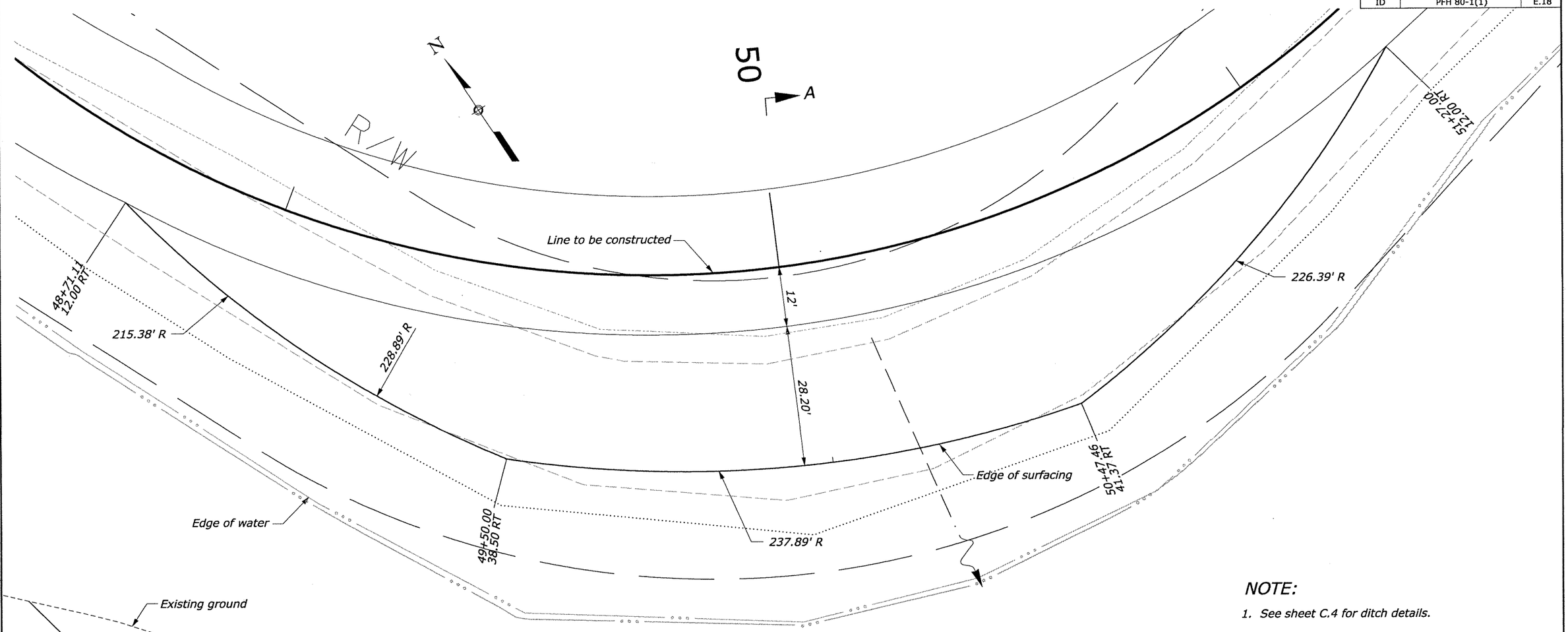
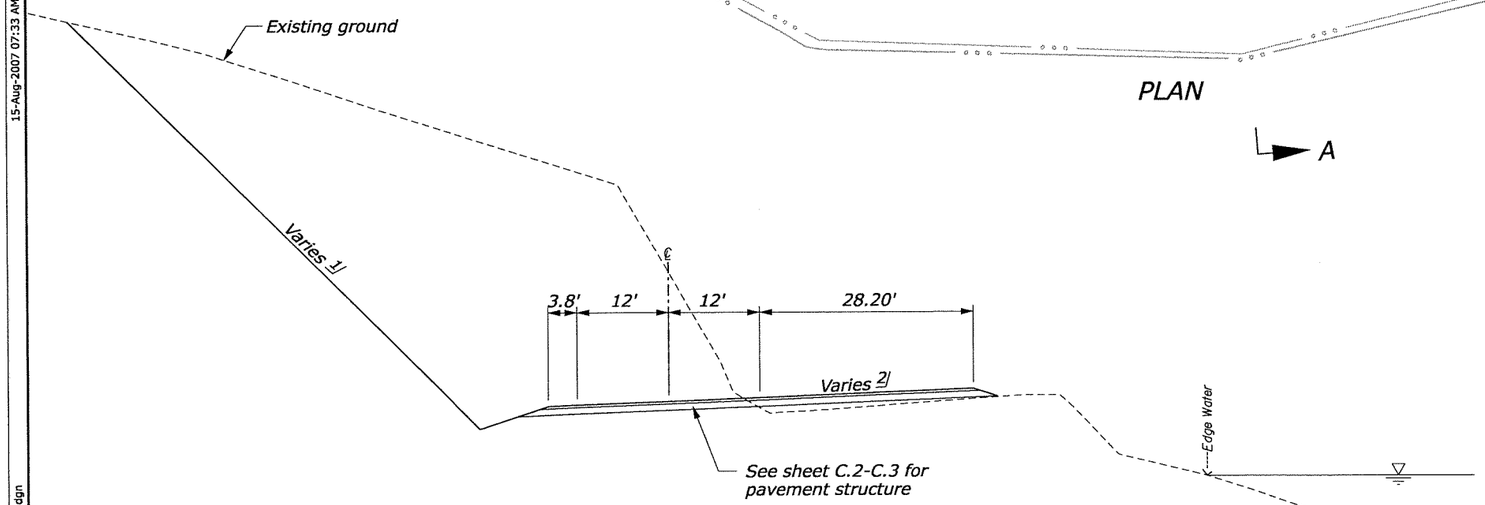
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.18



PLAN



SECTION A-A

NOTE:

1. See sheet C.4 for ditch details.

FOOTNOTE:

1/ Construct slope as shown in the staking report. (See FAR 52.236-4)

2/ See sheet C.12 for pavement structure.

PRELIMINARY

TURNOUT NO. 2 DETAIL

Designed by:	Checked by:	
Matt Ulberg	Vaughn Anderson	15-Aug-2007 07:33 AM
2/2006	2/2006	

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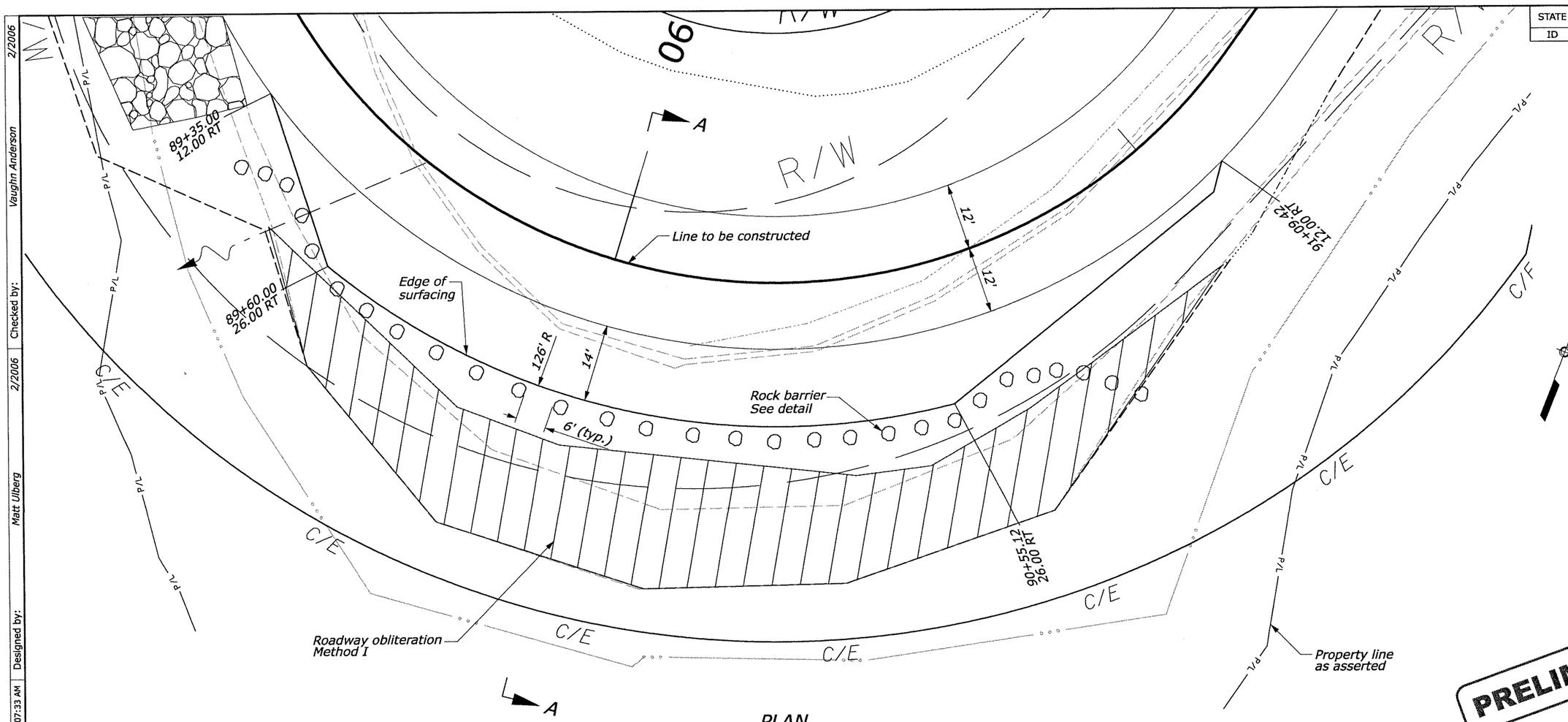
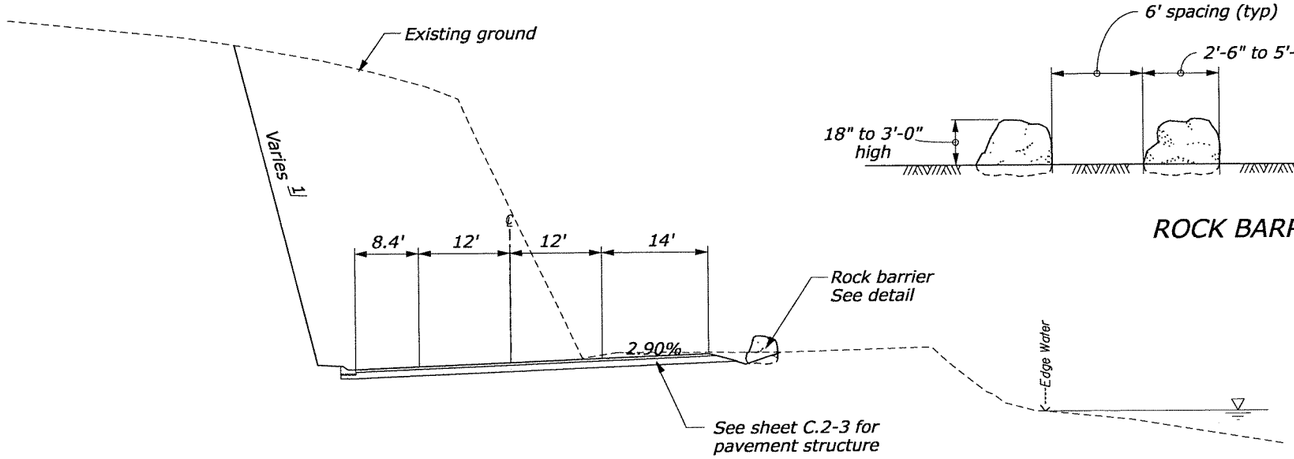
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.19

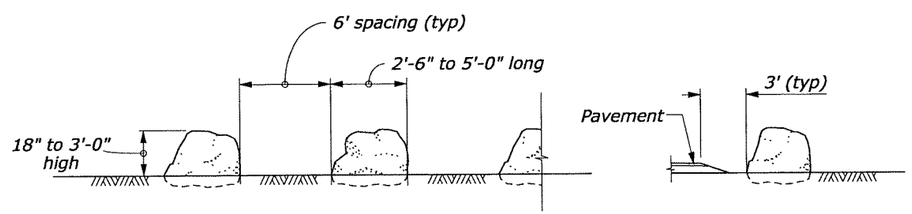


PLAN

PRELIMINARY



SECTION A-A



ROCK BARRIER DETAIL

NOTE:

1. See sheet C.4 for ditch details.

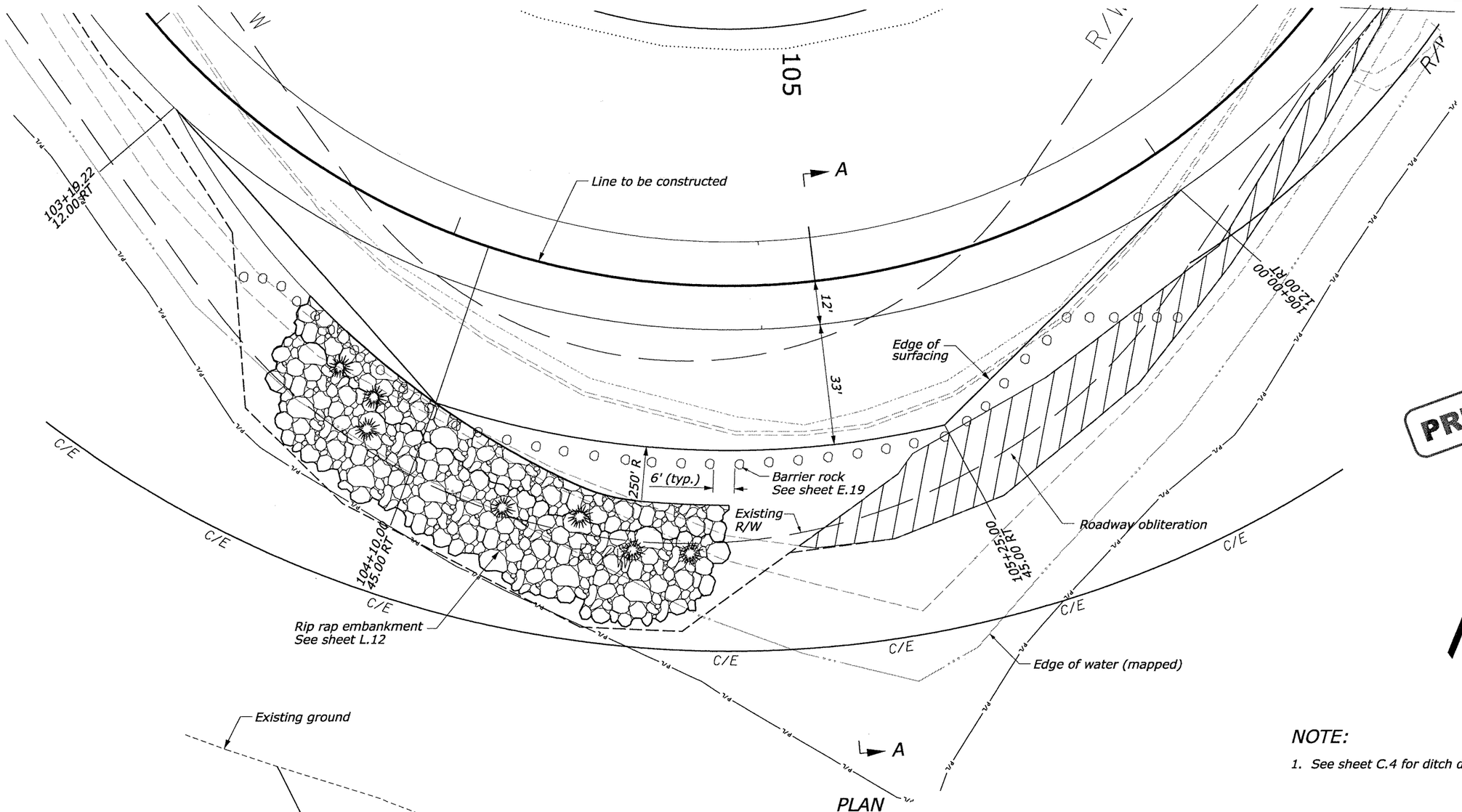
FOOTNOTE:

1/ Construct slope as shown in the staking report. (See FAR 52.236-4)

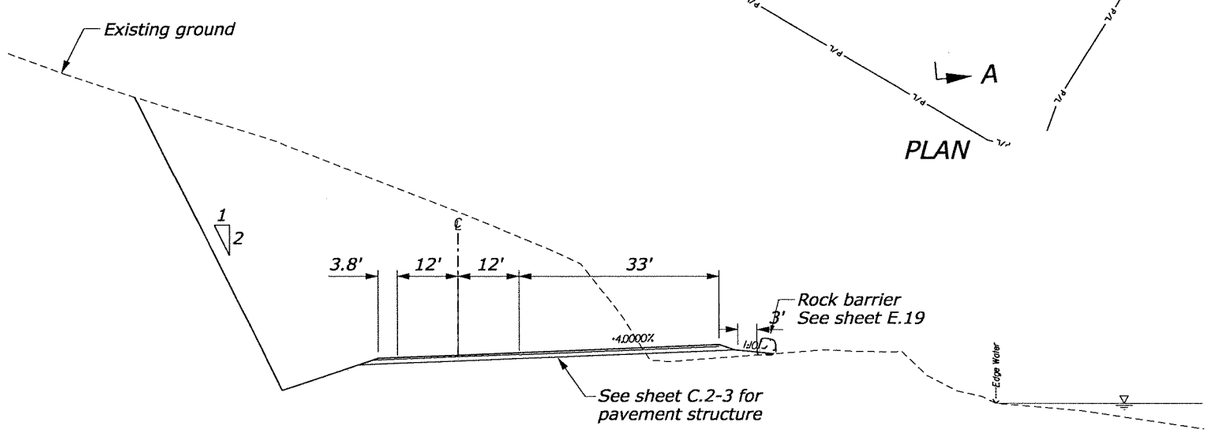
TURNOUT NO. 3 DETAIL

Designed by: Matt Ulberg 2/2006 | Checked by: Vaughn Anderson 2/2006 | 15-Aug-2007 07:33 AM | F:\Pha\5019\IDPFH8011RI.dgn

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.20



PRELIMINARY



SECTION A-A

NOTE:

1. See sheet C.4 for ditch details.

FOOTNOTE:

1/ Construct slope as shown in the staking report. (See FAR 52.236-4)

TURNOUT NO. 4 DETAIL

15-Aug-2007 07:34 AM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

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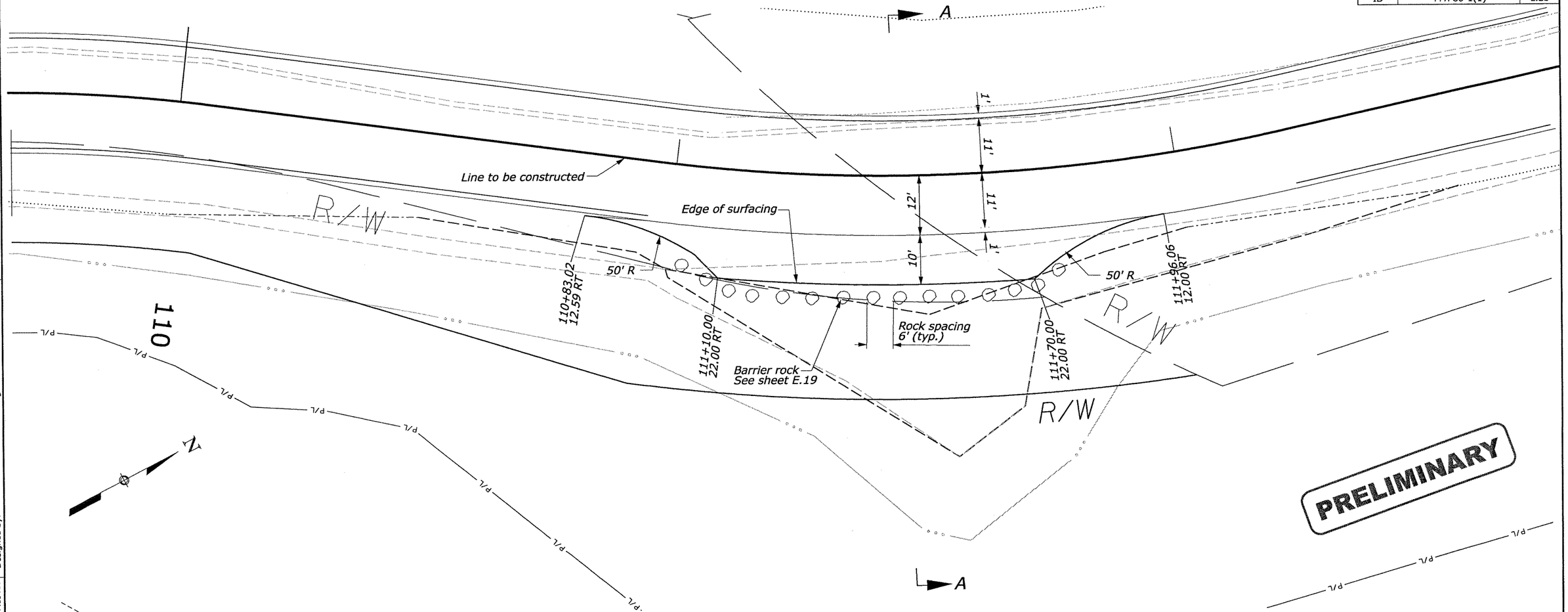
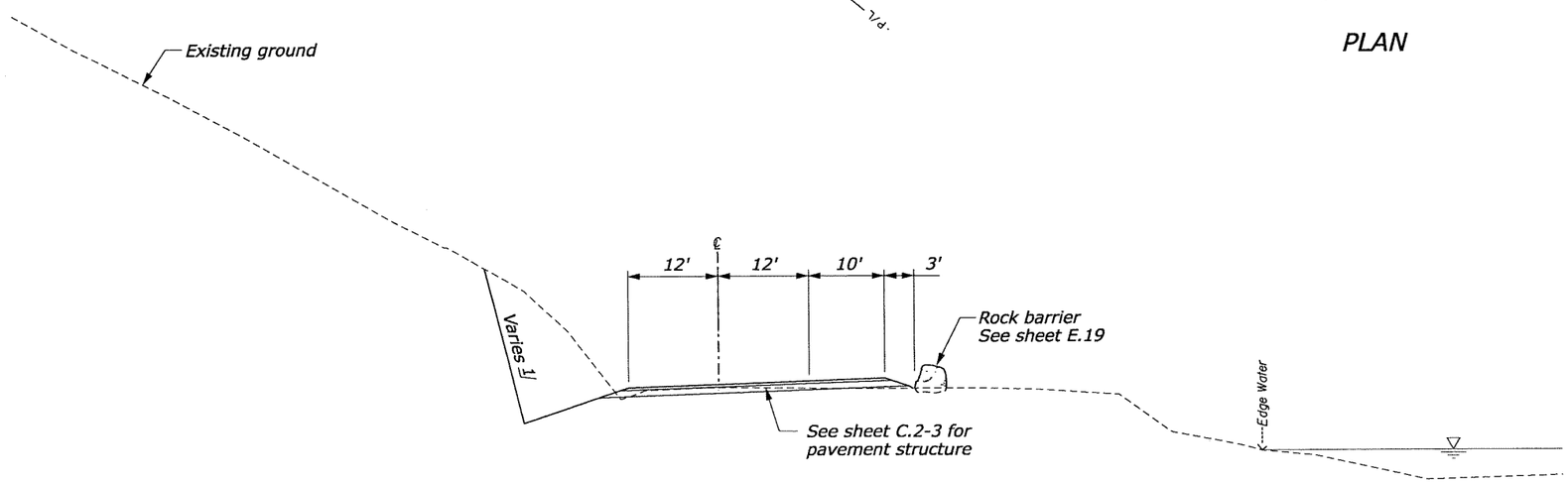
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.21



PLAN

PRELIMINARY



SECTION A-A

NOTE:

1. See sheet C.4 for ditch details.

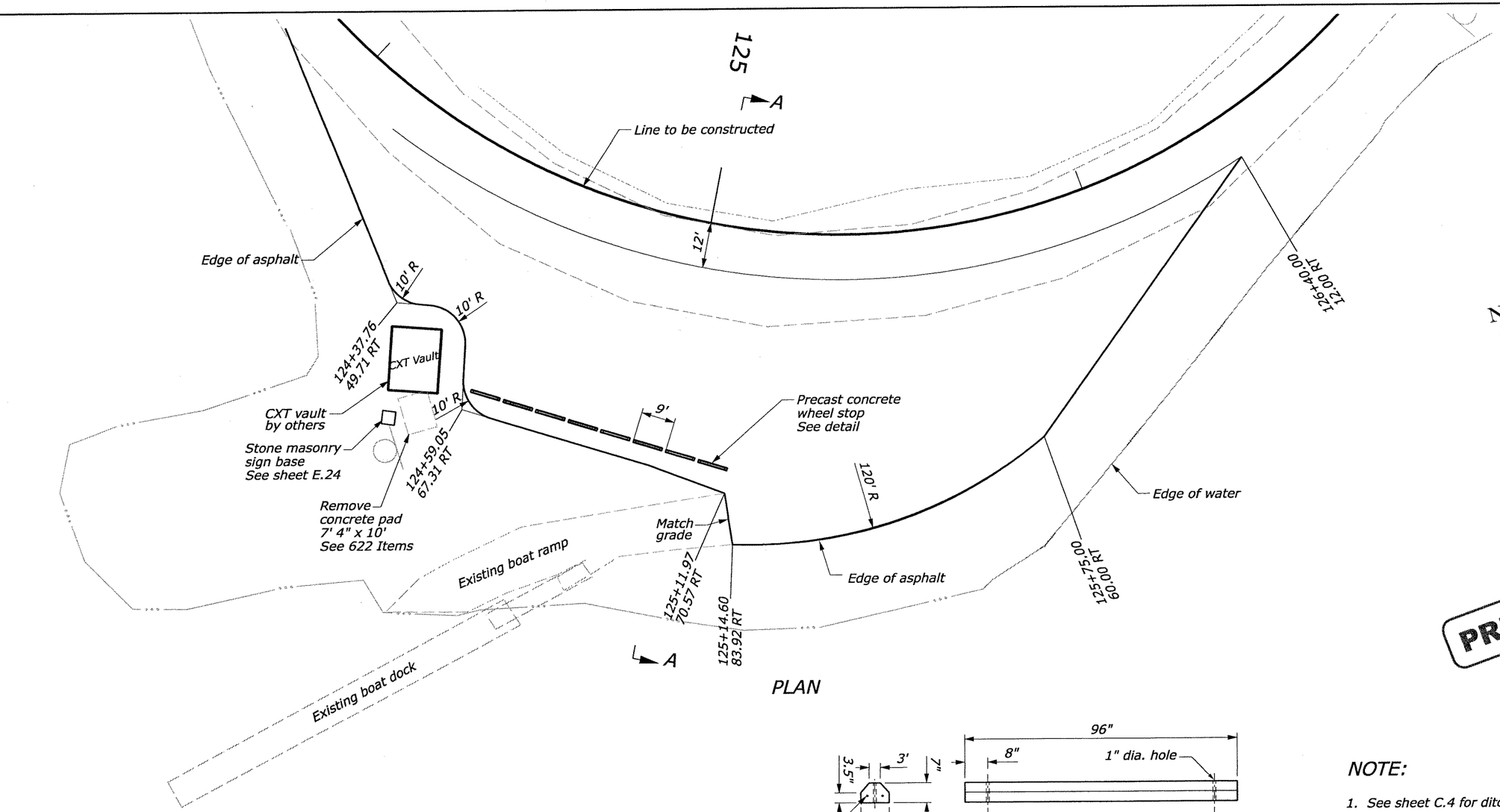
FOOTNOTE:

1/ Construct slope as shown in the staking report. (See FAR 52.236-4)

TURNOUT NO. 5 DETAIL

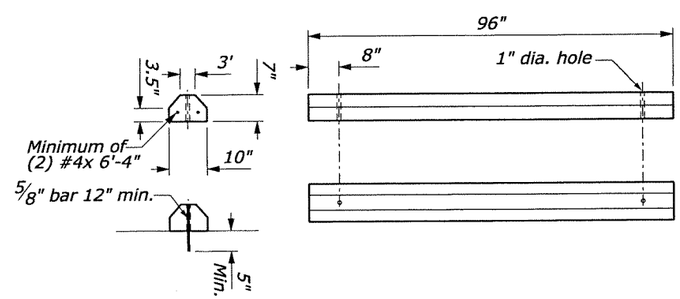
F:\Pha\5019\DPFH8011RL.dgn | 15-Aug-2007 07:35 AM | Designed by: Matt Ulberg 2/2006 | Checked by: Vaughn Anderson 2/2006

STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.22

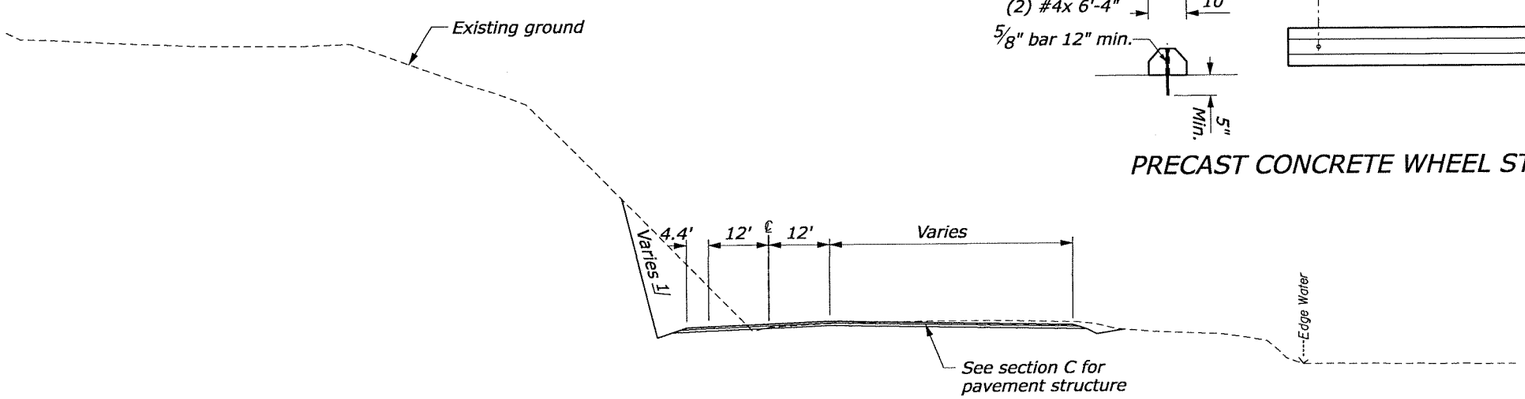


PLAN

PRELIMINARY



PRECAST CONCRETE WHEEL STOP DETAIL



SECTION A-A

NOTE:

1. See sheet C.4 for ditch details.

FOOTNOTE:

1/ Construct slope as shown in the staking report. (See FAR 52.236-4)

TURNOUT NO. 6 DETAIL

F:\fha\5019\DPFH8011RM.dgn | 15-Aug-2007 07:35 AM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

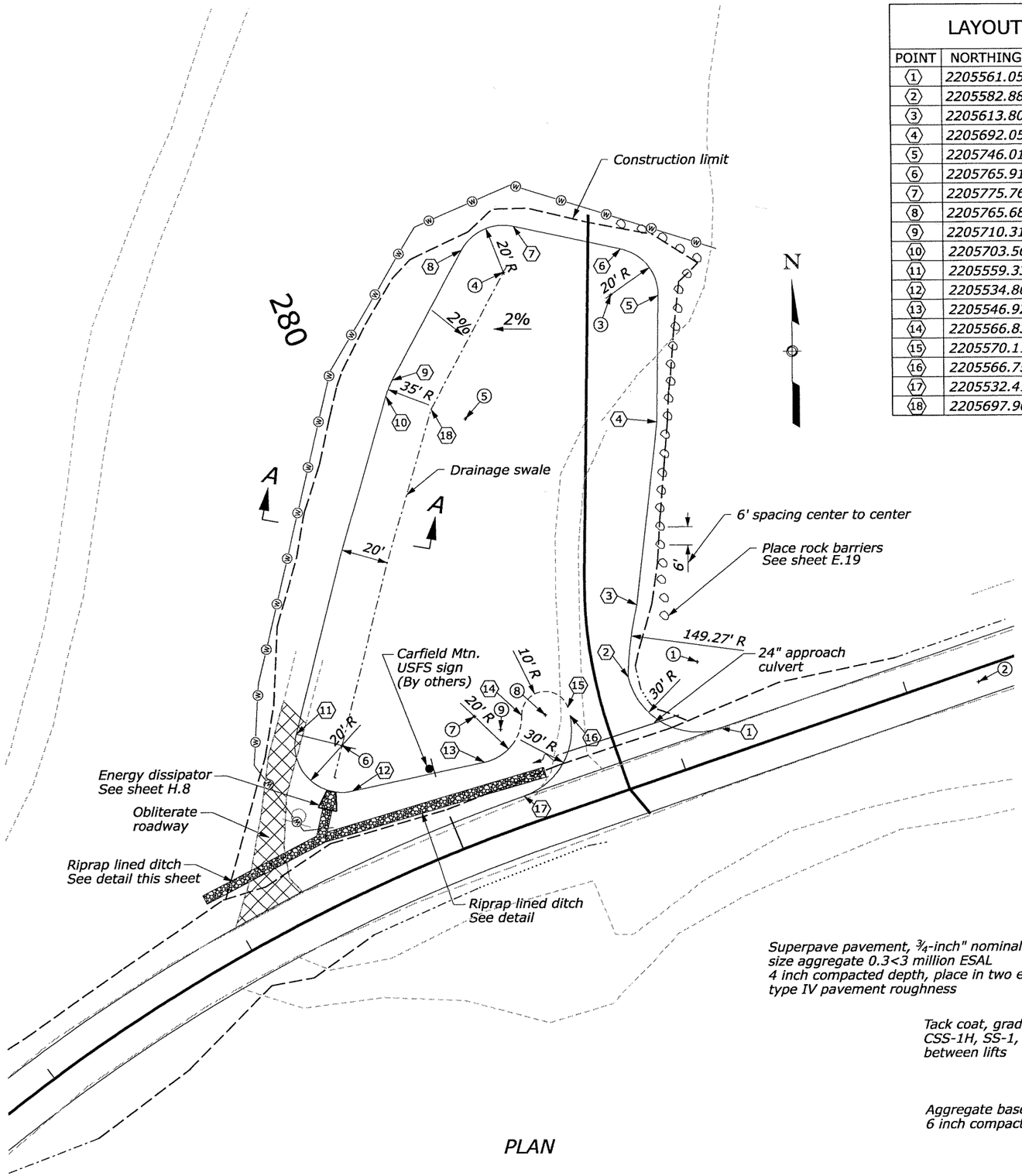
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	E.23

LAYOUT POINT TABLE

POINT	NORTHING	EASTING	ELEVATION
1	2205561.05	2396497.88	2300.39
2	2205582.88	2396458.88	2304.11
3	2205613.80	2396462.65	2304.50
4	2205692.05	2396471.57	2306.00
5	2205746.01	2396472.53	2305.63
6	2205765.91	2396456.78	2304.85
7	2205775.76	2396411.44	2301.56
8	2205765.68	2396389.57	2301.55
9	2205710.31	2396359.86	2300.31
10	2205703.56	2396357.10	2300.15
11	2205559.33	2396317.95	2297.15
12	2205534.86	2396341.52	2297.00
13	2205546.92	2396397.79	2298.20
14	2205566.83	2396413.60	2299.00
15	2205570.11	2396433.10	2298.50
16	2205566.75	2396433.99	2298.22
17	2205532.41	2396414.31	2296.93
18	2205697.96	2396376.30	2301.22

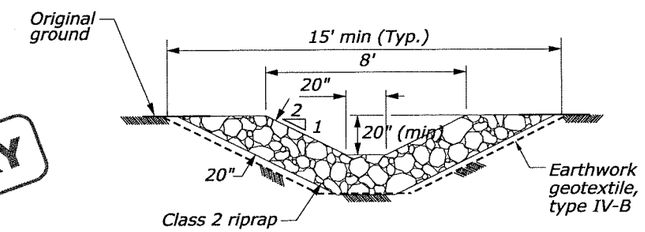
RADIUS CENTER POINT TABLE

POINT	NORTHING	EASTING	ELEVATION
1	2205589.43	2396488.15	
2	2205580.35	2396608.12	
3	2205746.36	2396452.53	
4	2205756.22	2396407.19	2301.15
5	2205693.76	2396390.70	
6	2205554.41	2396337.33	2296.75
7	2205566.48	2396393.60	
8	2205567.00	2396423.60	
9	2205560.79	2396404.59	

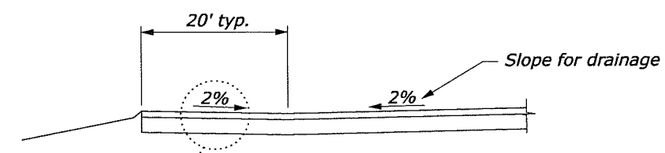


PLAN

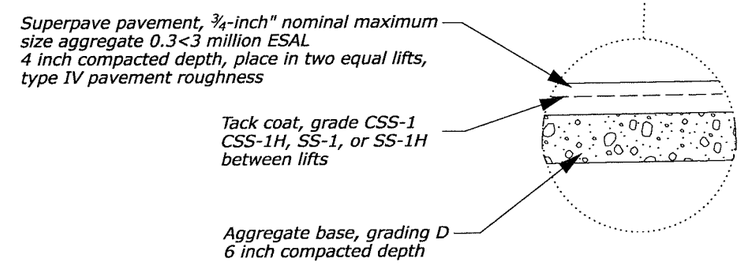
PRELIMINARY



RIPRAP LINED DITCH



SECTION A-A



NOTE:

1. See sheet C.3 for ditch details.
2. Place boulders as directed by CO to prohibit unauthorized motor vehicle use.

FOOTNOTE:

1/ Construct slope as shown in the staking report. (See FAR 52.236-4)

PARKING AREA DETAIL

15-Aug-2007 07:36 AM | Designed by: Matt Ulberg | 2/2006 | Checked by: Vaughn Anderson | 2/2006

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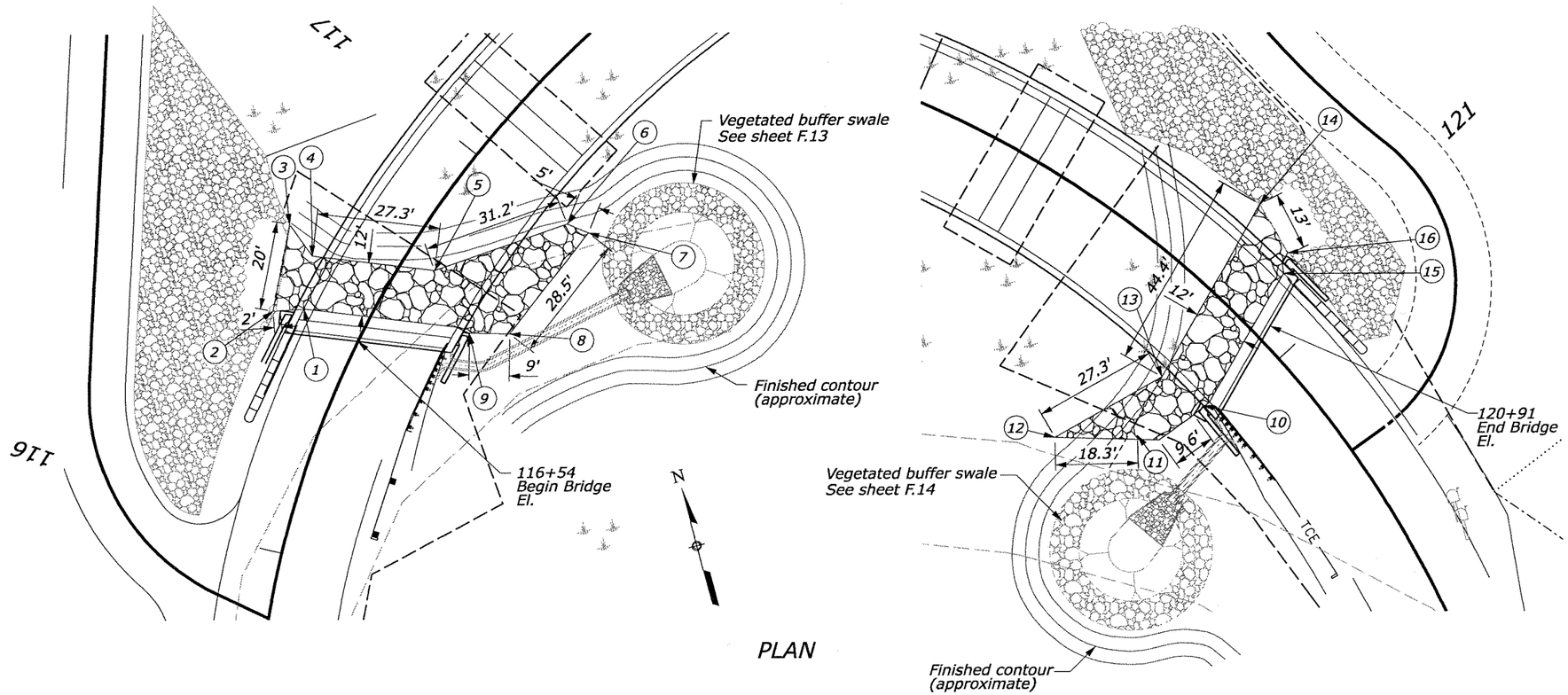
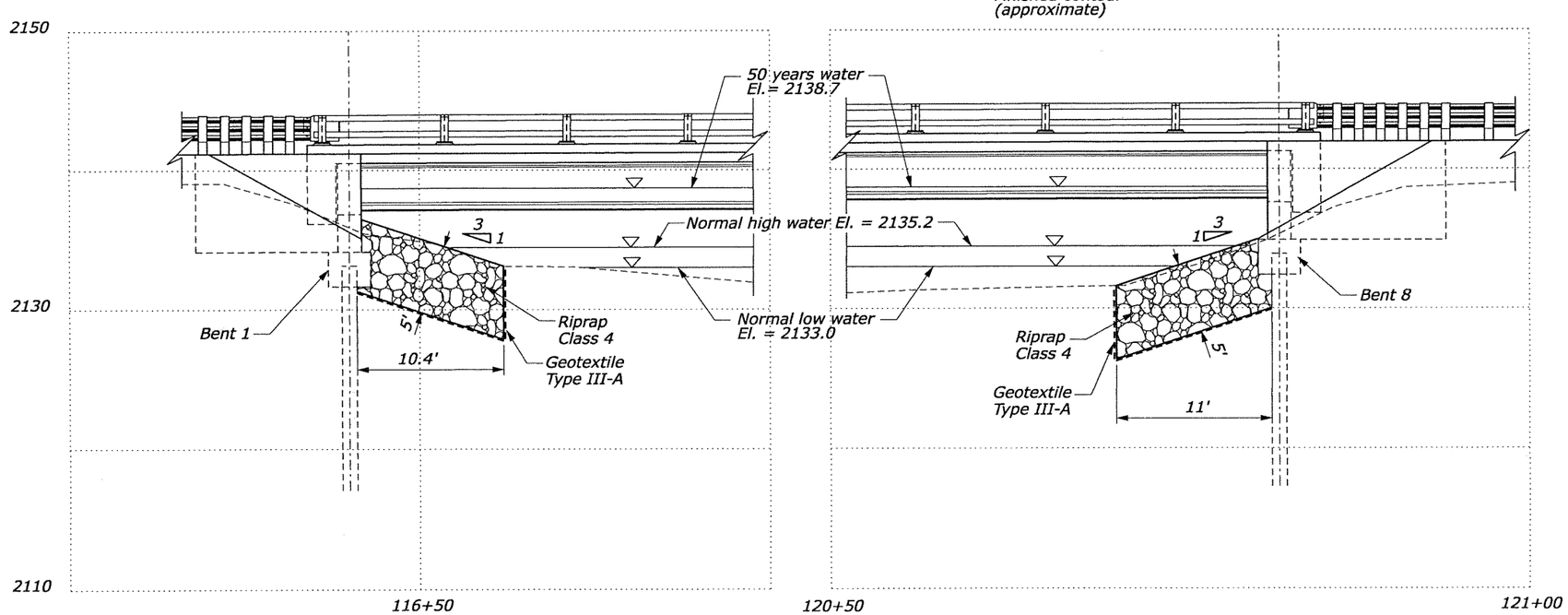
STATE	PROJECT	SHEET NUMBER
ID	PFH 80-1(1)	F.16



PLAN

Point	Northing	Easting
1	2193704.4219	2387898.3182
2	2193705.8883	2387891.1854
3	2193723.6987	2387899.8251
4	2193715.5404	2387902.8324
5	2193705.2546	2387928.1322
6	2193707.6678	2387959.2540
7	2193704.4937	2387963.3034
8	2193687.1993	2387940.4827
9	2193689.7120	2387931.8900
10	2193641.2593	2388268.3561
11	2193635.9632	2388255.3071
12	2193642.5607	2388233.1110
13	2193649.4361	2388259.6329
14	2193681.0416	2388290.9131
15	2193664.6751	2388291.9899
16	2193668.9082	2388294.0161

PRELIMINARY



ELEVATION

NOTE:

1. See sheet D.1 for quantities.

FERNAN LAKE ROAD BRIDGE RIPRAP DETAIL

2/2006 | Vaughn Anderson | Checked by: | 2/2006 | Matt Ulberg | Designed by: | 17-Aug-2007 11:07 AM | F:\fha\5019\DPFH8011QQX.dgn