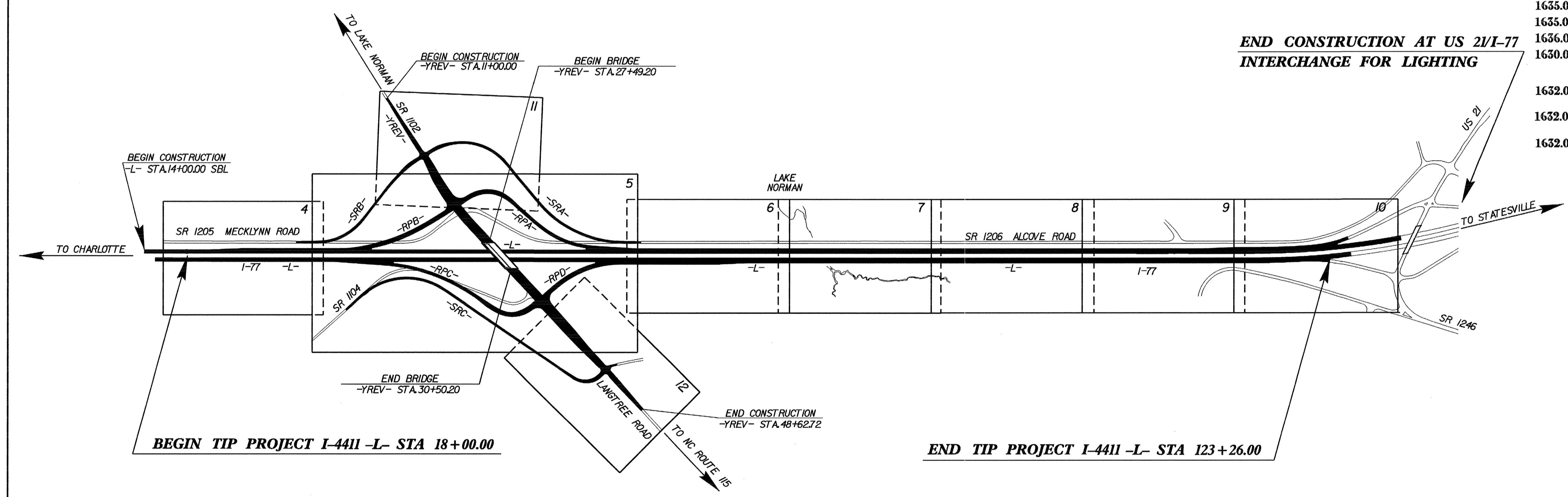
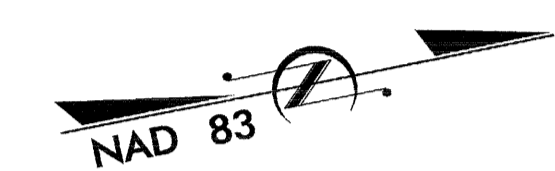


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-4411	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: I-4411

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
IREDELL COUNTY

LOCATION: PROPOSED INTERCHANGE AT EXISTING I-77 AND SR 1102 GRADE SEPARATION
TYPE OF WORK: GRADING, PAVING, DRAINAGE, LIGHTING, SIGNING, STRUCTURE, AND SIGNALS



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1650.03	Temporary Silt Ditch	
1650.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1650.01	Riser Basin	
1650.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1655.01	Rock Pipe Inlet Sediment Trap Type-A	
1655.02	Rock Pipe Inlet Sediment Trap Type-B	
1656.01	Rock Silt Screen	
1650.04	Stilling Basin	
Rock Inlet Sediment Trap:		
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
 Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2002 STANDARD SPECIFICATIONS

Roadway Standard Drawings

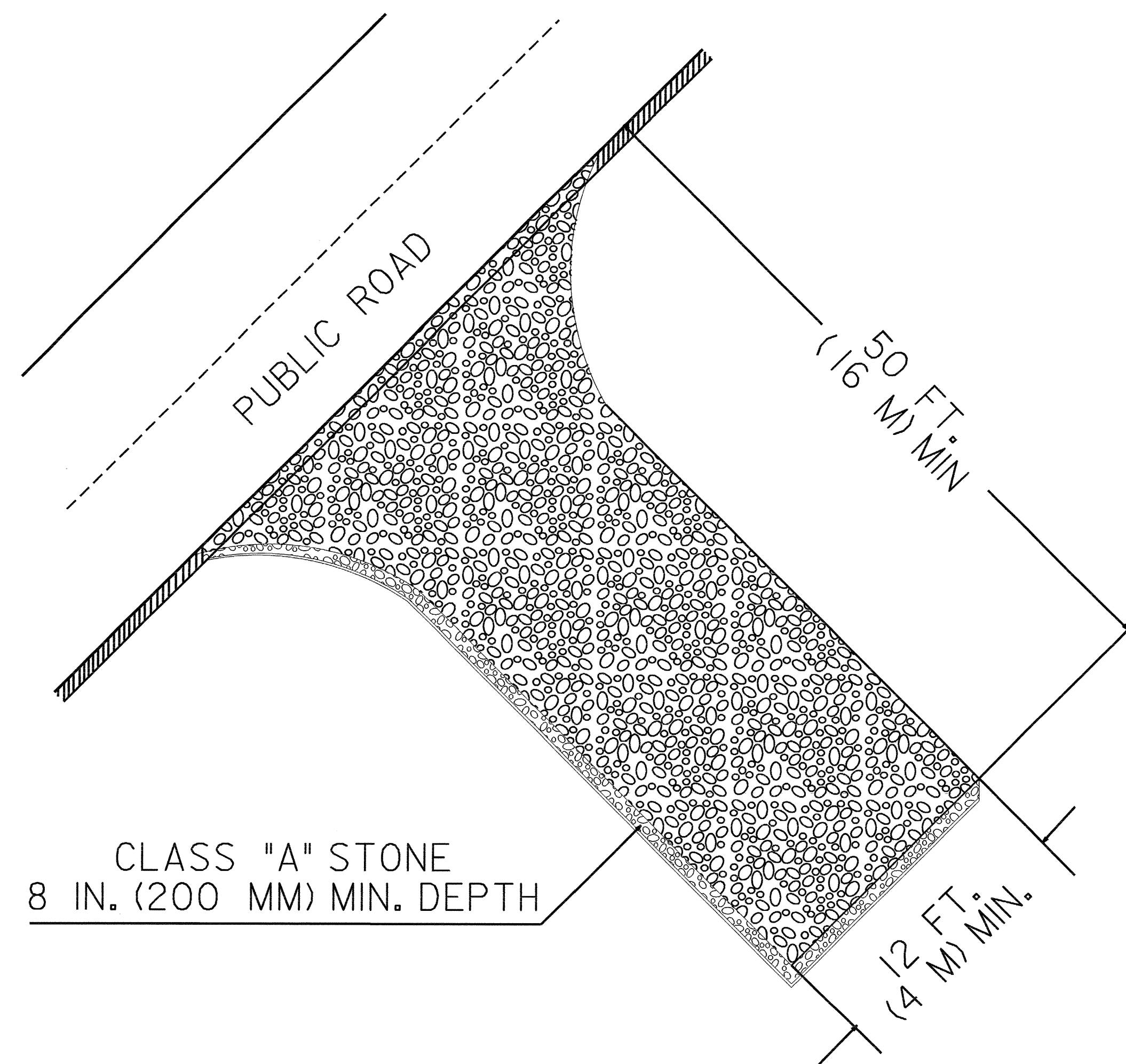
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1622.01 Temporary Berms and Slope Drains	1632.03 Rock Inlet Sediment Trap Type C
1630.02 Silt Basin Type B	1633.01 Temporary Rock Silt Check Type A
1630.03 Temporary Silt Ditch	1633.02 Temporary Rock Silt Check Type B
1630.05 Temporary Diversion	1634.02 Temporary Rock Sediment Dam Type B
	1635.01 Rock Pipe Inlet Sediment Trap Type A

23-APR-2005 11:20 AM C:\PROJECTS\I-4411\I-4411-09.dwg

PROJ. REFERENCE NO. I-411	SHEET NO. EC-2	TOTAL SHEETS
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

PROJECT REFERENCE NO.	SHEET NO.
I-4411	EC-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	28+50	37+00	RT	1390
5	SRC	33+00	34+00	RT	70
5	SRC	35+50	37+00	RT	105
5	SRC	31+00	37+50	LT	455
5	SRC	31+00	32+50	RT	105
5	SRC	30+00	30+50	LT	35
5	SRC	29+00	30+50	RT	105
5	SRC	27+50	29+50	LT	140
5	SRC	17+80	26+50	RT	545
5	RPC	26+00	28+00	RT	140
5	RPC	21+50	22+50	LT	70
5	YREV	39+50	41+50	LT	140
5	YREV	32+50	34+00	LT	75
5	RPA	19+00	21+00	RT	100
5	GRA	24+00	26+50	RT	125
5	GRA	28+00	28+50	LT	35
5	RPD	14+50	18+50	RT	280
5	RPD	15+50	18+50	LT	210
5	SRB	19+25	19+75	LT	35
5	GRA	28+50	29+00	RT	35
5	GRA	28+50	29+00	LT	35
5	L	33+50	34+50	LT	105
5	L	44+00	45+50	LT	60
5	L	37+50	44+50	RT	940
5	RPB	12+50	18+00	LT	620
5	RPC	15+50	16+50	LT	135
5	RPC	21+50	22+50	LT	70
5	RPA	22+50	27+50	RT	460
5	RPA	22+50	27+50	LT	460
5	RPC	26+00	28+00	RT	140

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	GRA	10+50	14+00	RT	285
5	GRA	10+50	14+00	LT	285
5	SRB	10+50	24+00	RT	1085
5	SRB	10+50	17+50	LT	565
5	SRB	20+50	21+50	LT	85
5	GRA	26+50	31+00	RT	365
5	GRA	27+50	29+00	LT	105
5	GRA	33+00	33+50	RT	45
5	SRC	21+50	34+00	RT	875
5	SRC	27+50	37+50	LT	700
5	YREV	11+50	18+50	LT	790
5	YREV	12+00	18+00	RT	805
6	L	72+00	75+00	RT	150
6	L	59+50	63+50	RT	370
6	L	66+00	74+50	RT	780
7	L	83+00	85+00	RT	270
8	L	95+50	105+50	LT	970
9	L	113+50	115+50	RT	270
11	GRA	18+50	19+50	LT	70
12	YREV	39+50	41+00	RT	105
12	SRC	12+00	17+45	RT	385
12	SRC	11+50	12+00	RT	35
12	SRC	10+50	17+50	RT	565
				SUBTOTAL	17180
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				2990
				TOTAL	20170
				SAY	20200

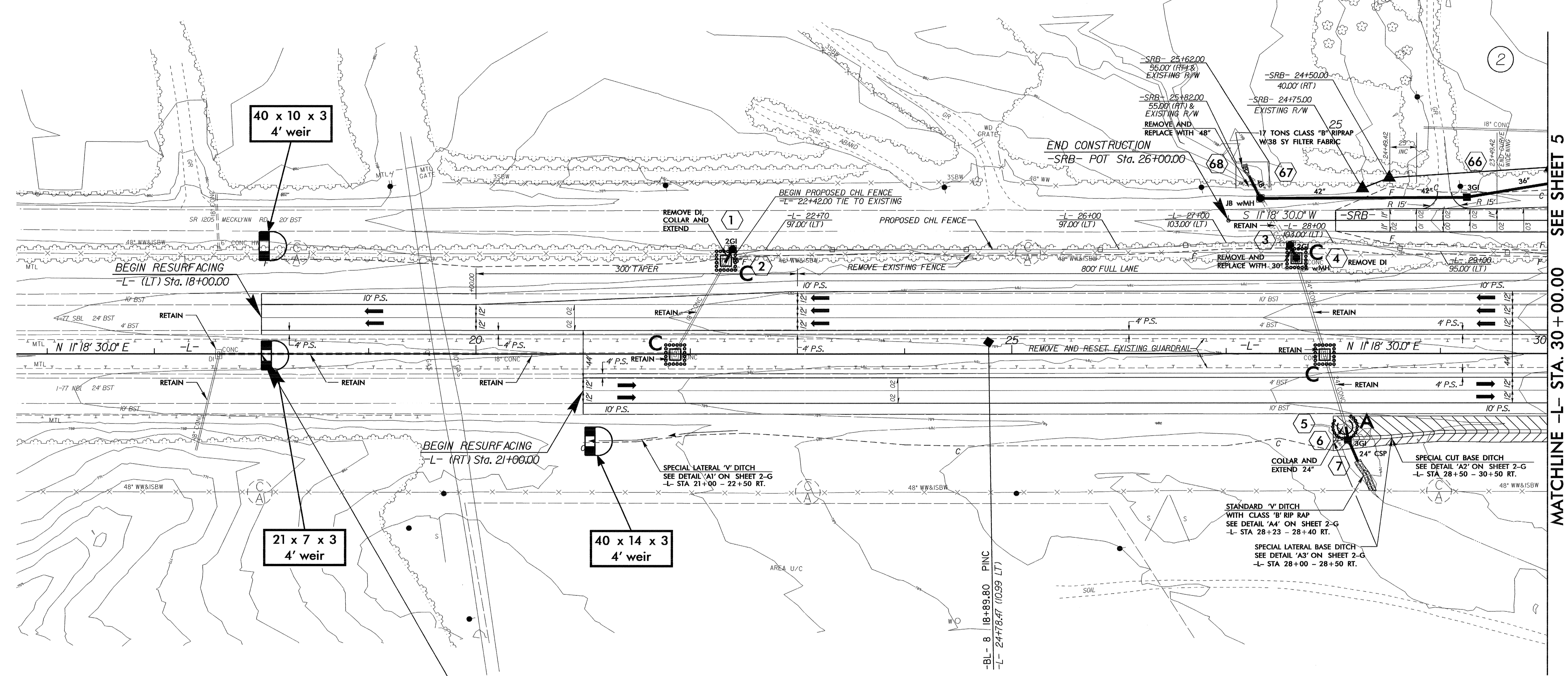
PROJECT REFERENCE NO. I-4411	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



SEE SHEETS 18 AND 19 FOR PROFILE OF -SRB-



40 x 10 x 3
4' weir

21 x 7 x 3
4' weir

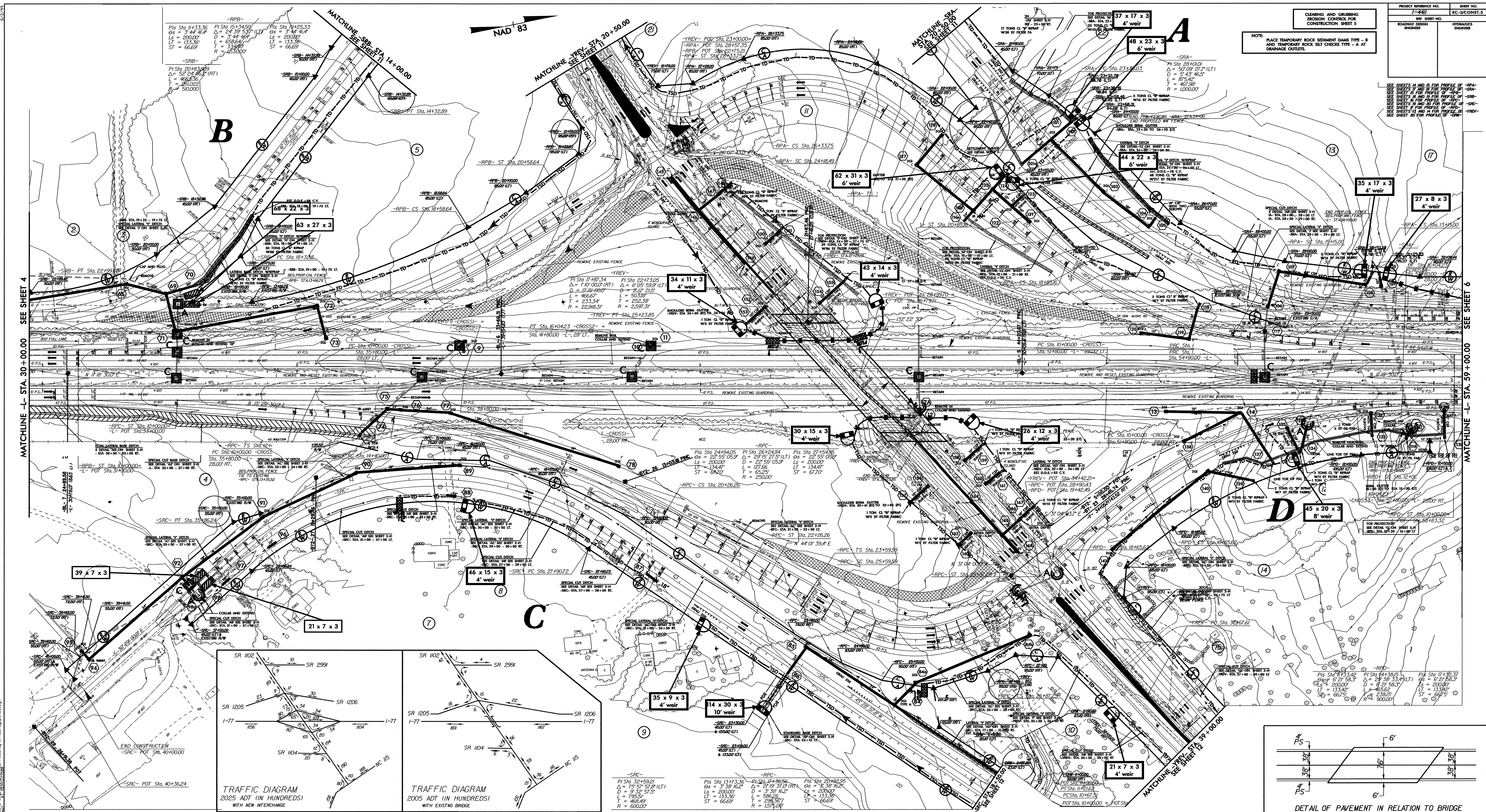
40 x 14 x 3
4' weir

BEGIN STATE PROJECT I-4411
-L- POT STA. 18+00.00

MATCHLINE -L- STA. 30+00.00 SEE SHEET 5

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCSS FOR MONUMENT "SCHOOL".
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 6722527040(f); EASTING: 14421403605(f)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985137
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SCHOOL" TO -L- STATION 18+00.00 IS
S 08° 28' 03.94" E 22,110.5450
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NGVD 88

26-APR-2005 16:02
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10:00:00 AM AT RENE221500

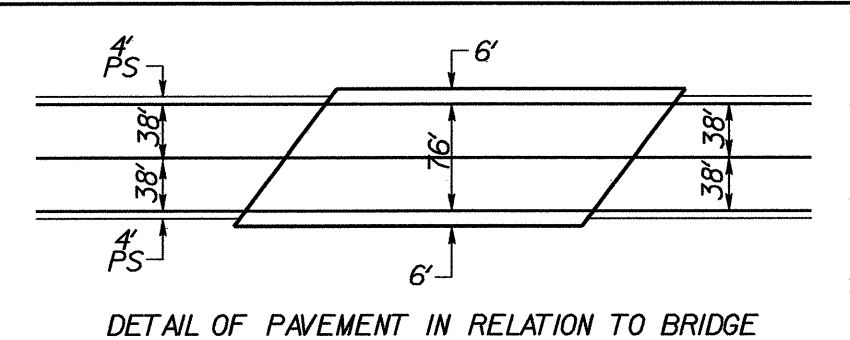
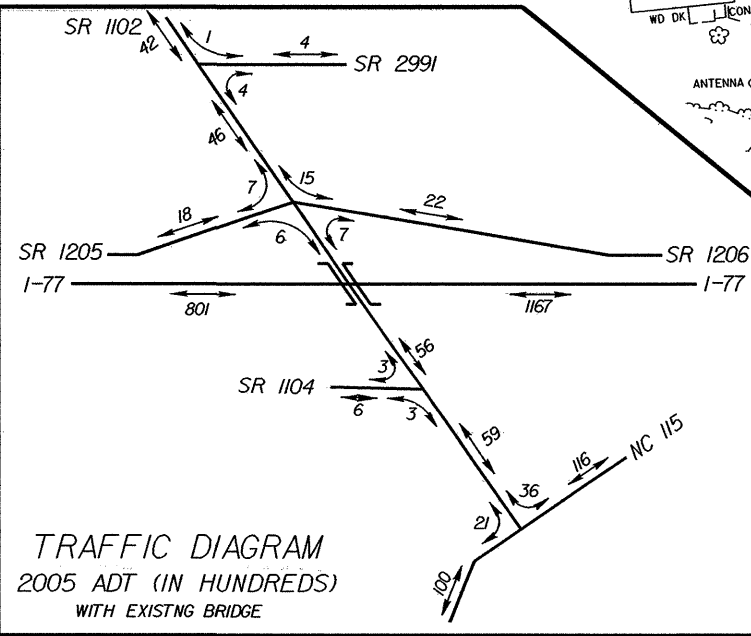
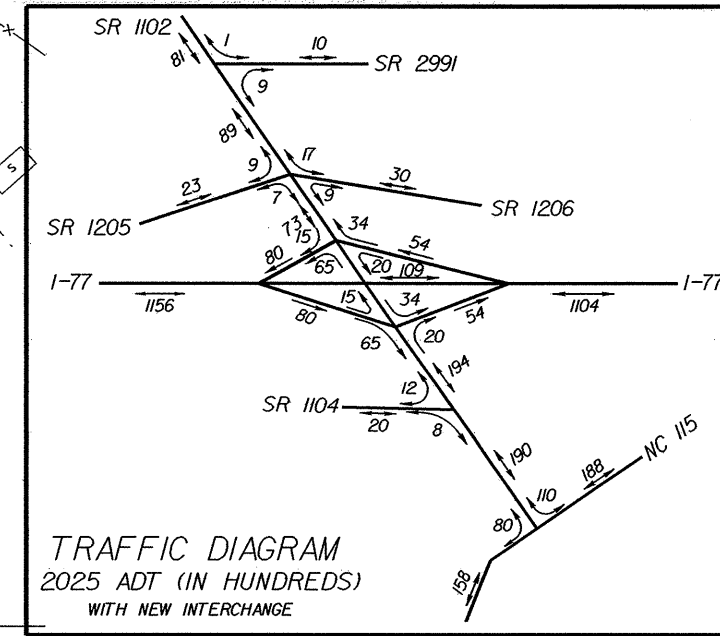


PROJECT REFERENCE NO. I-441
 SHEET NO. EC-S-CONST.5
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

MATCHLINE -L- STA. 30+00.00 SEE SHEET 4

MATCHLINE -L- STA. 59+00.00 SEE SHEET 6



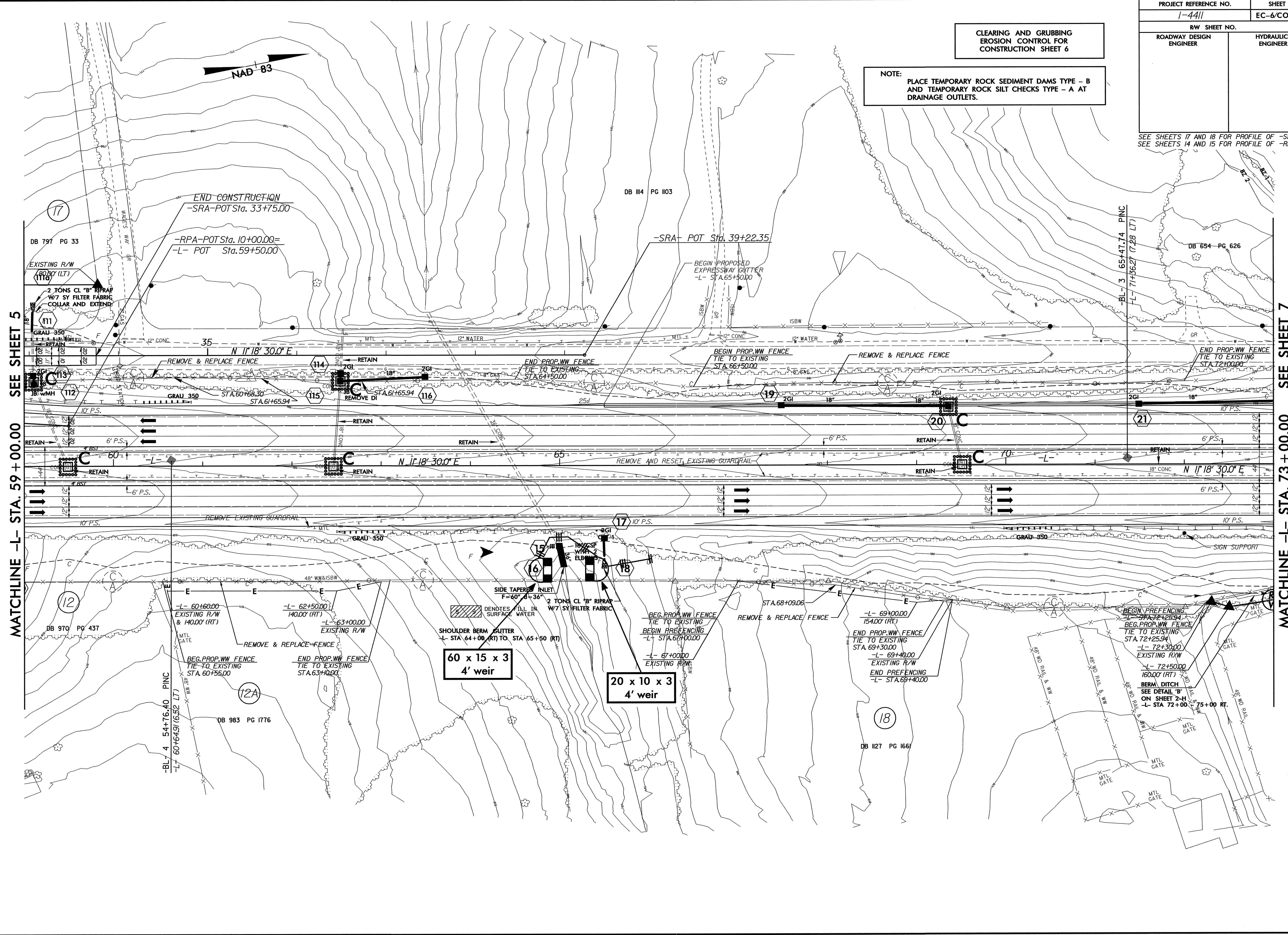
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PROJECT REFERENCE NO.		SHEET NO.	
1-4411		EC-6/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6**

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

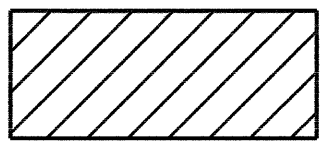
SEE SHEETS 17 AND 18 FOR PROFILE OF -SRA-
SEE SHEETS 14 AND 15 FOR PROFILE OF -RPA-

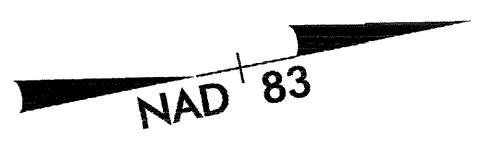


SEE SHEET 5
MATCHLINE -L- STA. 59 + 00.00

SEE SHEET 7
MATCHLINE -L- STA. 73 + 00.00

PROJECT REFERENCE NO.	SHEET NO.
1-4411	EC-7/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

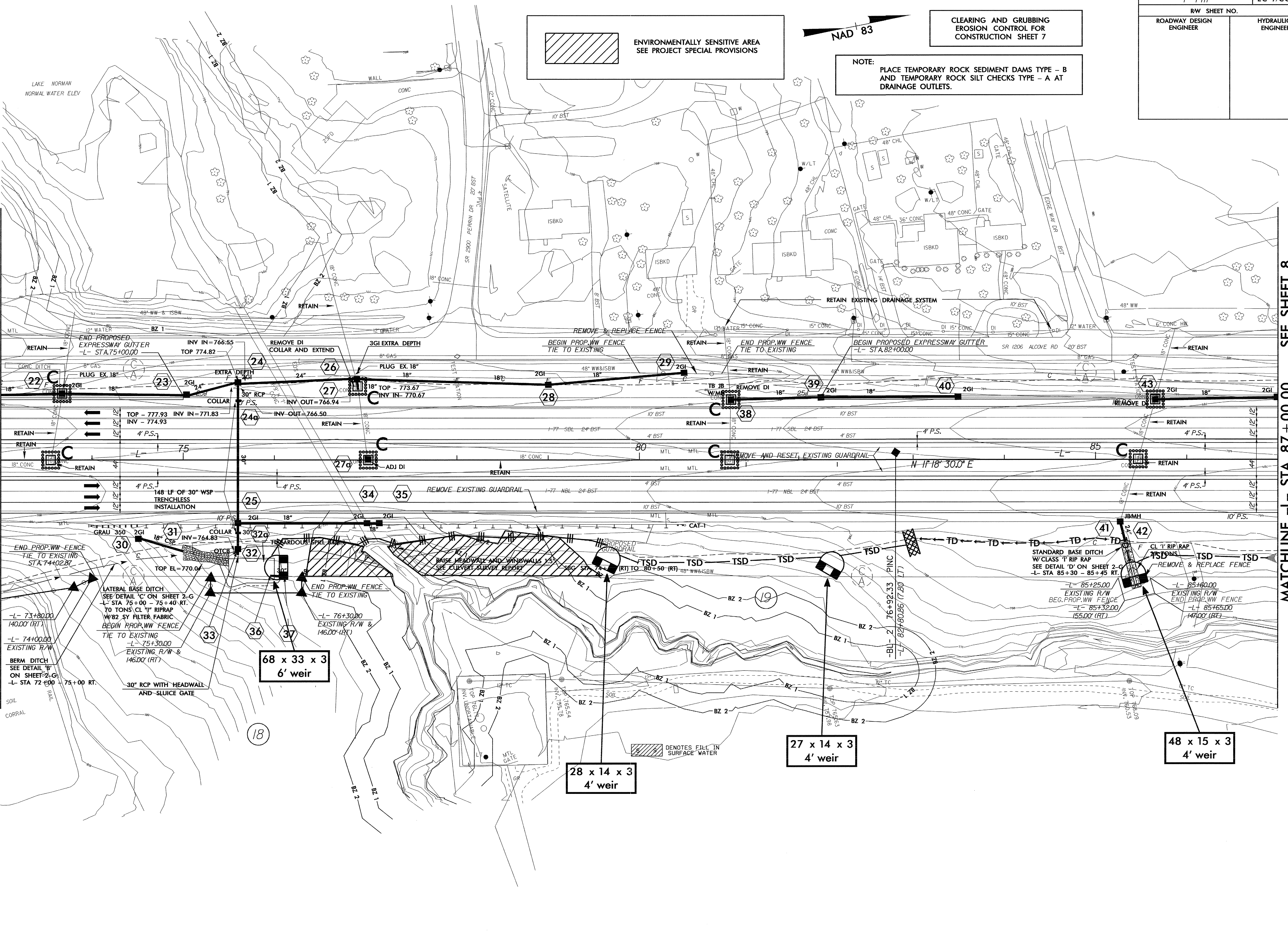


CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

MATCHLINE -L- STA. 73 + 00.00 SEE SHEET 6

SEE SHEET 8 MATCHLINE -L- STA. 87 + 00.00

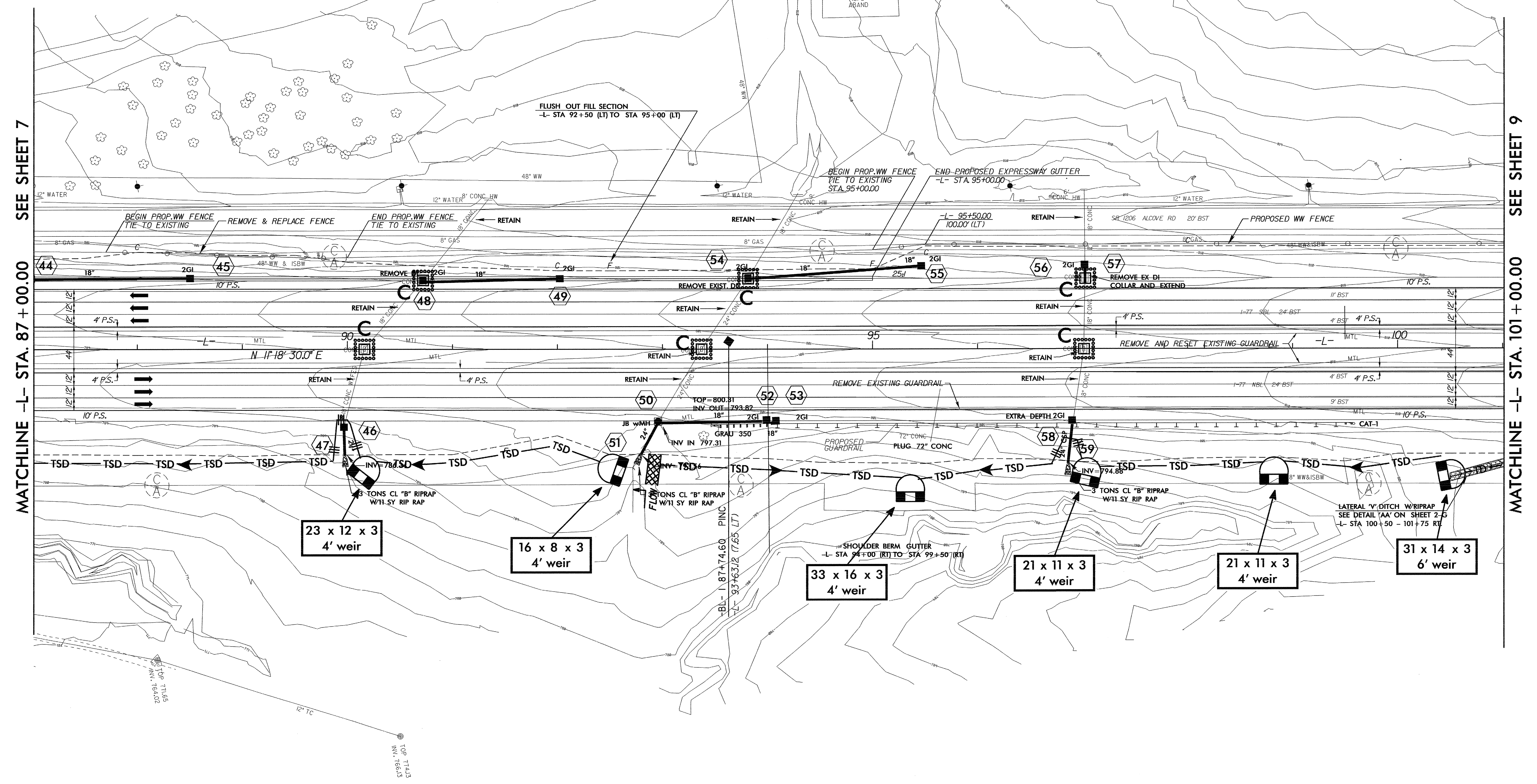


8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
1-4411		EC-8/CONST.8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCHLINE -L- STA. 87+00.00 SEE SHEET 7

SEE SHEET 9
MATCHLINE -L- STA. 101+00.00

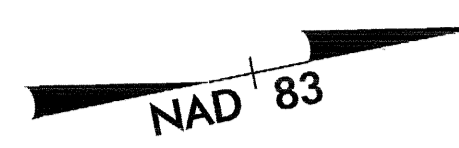
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8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO.		SHEET NO.	
1-4411		EC-9/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

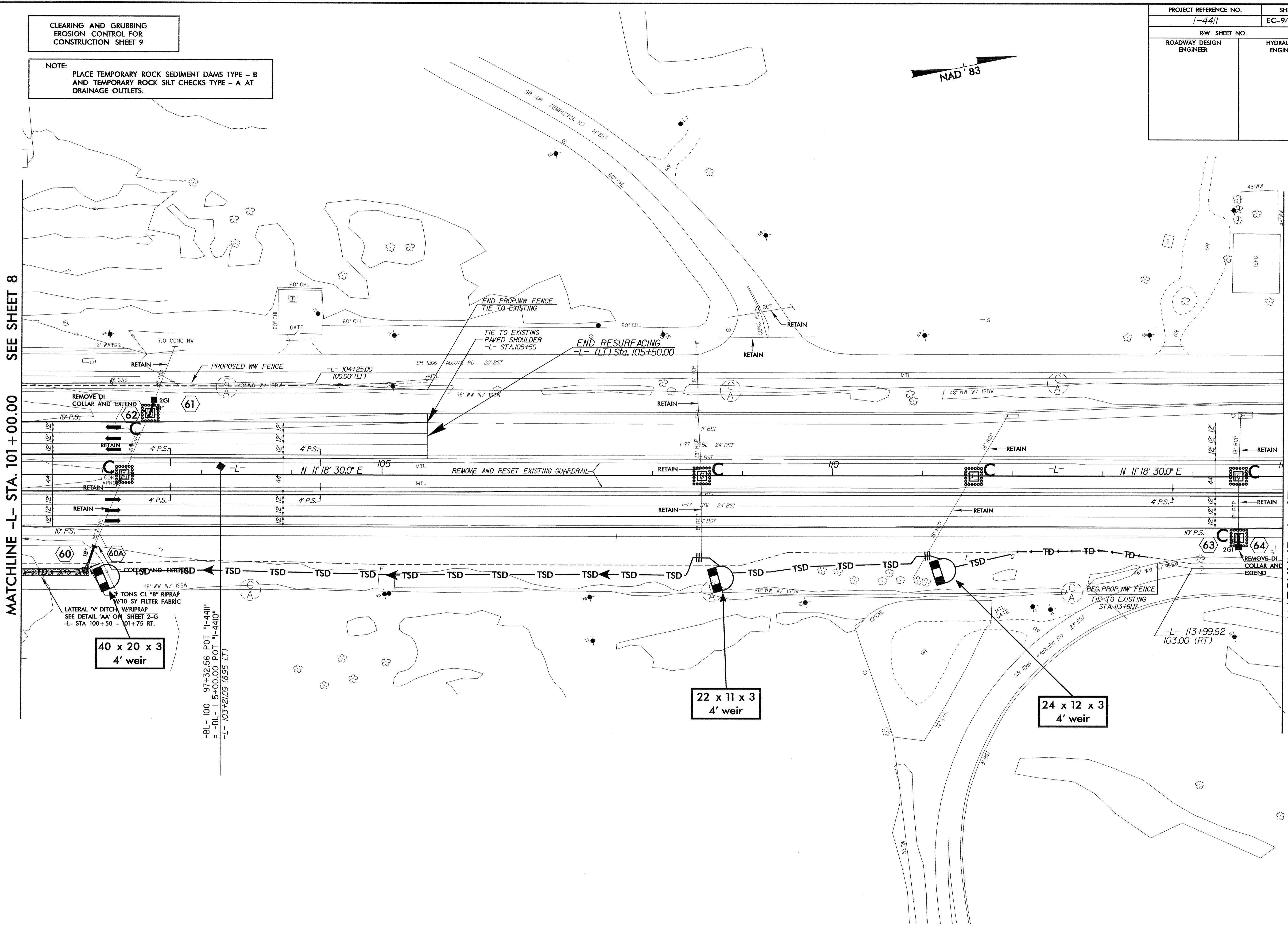


SEE SHEET 8

MATCHLINE -L- STA. 101+00.00

SEE SHEET 10

MATCHLINE -L- STA. 115+00.00



40 x 20 x 3
4' weir

3 TONS CL "B" RIPRAP
W/10 SY FILTER FABRIC
LATERAL 'V' DITCH W/ RIPRAP
SEE DETAIL 'AA' ON SHEET 2-G
-L- STA 100+50 - 101+75 RT.

-BL- 100 97+32.56 POT "1-4411"
-BL- 1 5+00.00 POT "1-4410"
-L- 103+21.09 (8.95 LT)

22 x 11 x 3
4' weir

24 x 12 x 3
4' weir

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11-4411-9-ER-12-1500

8/17/99
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jagocadwin AT RAIN221500

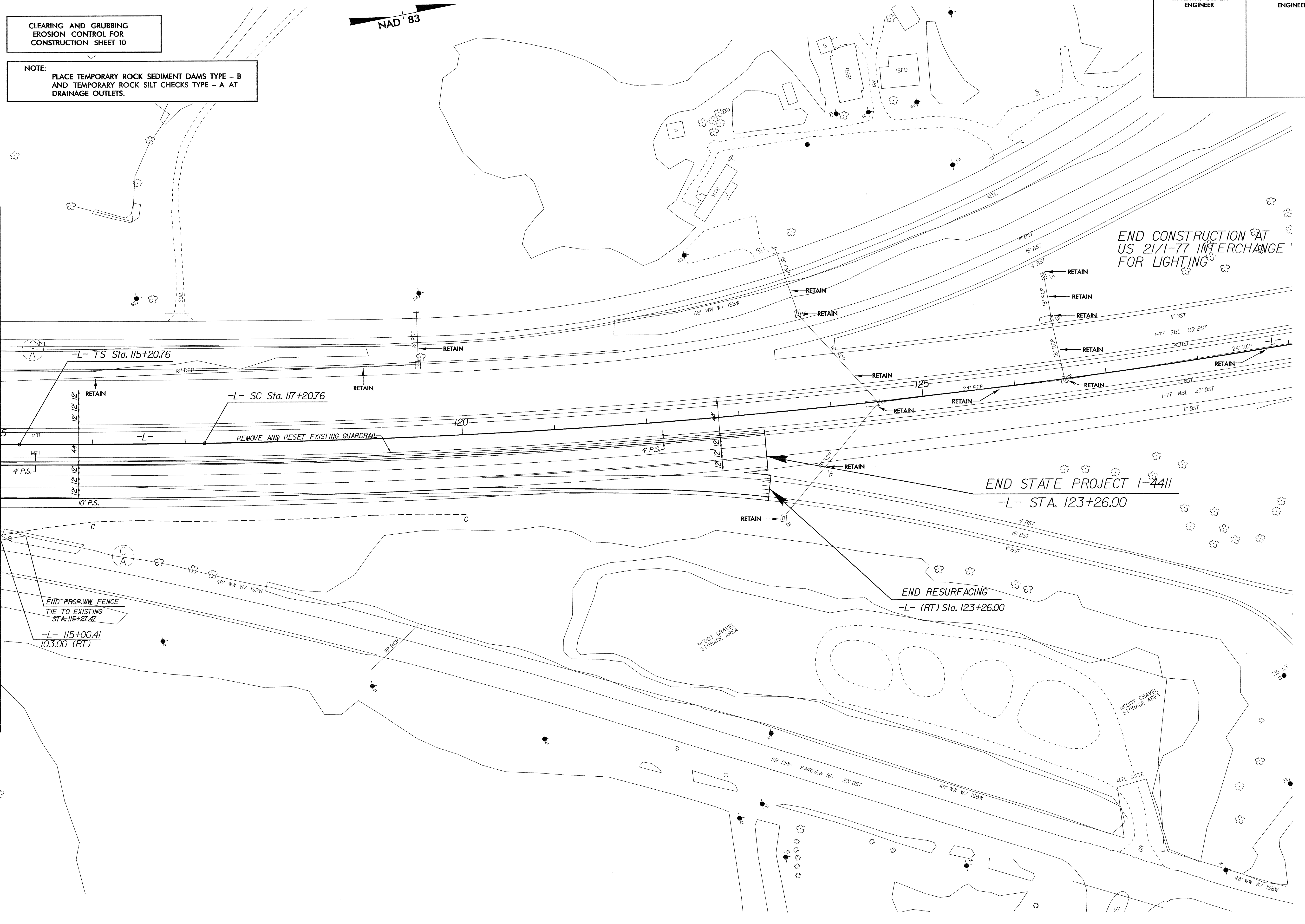
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1-4411	EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCHLINE -L- STA. 115+00.00 SEE SHEET 9



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jagocadwin AT RAIN221500

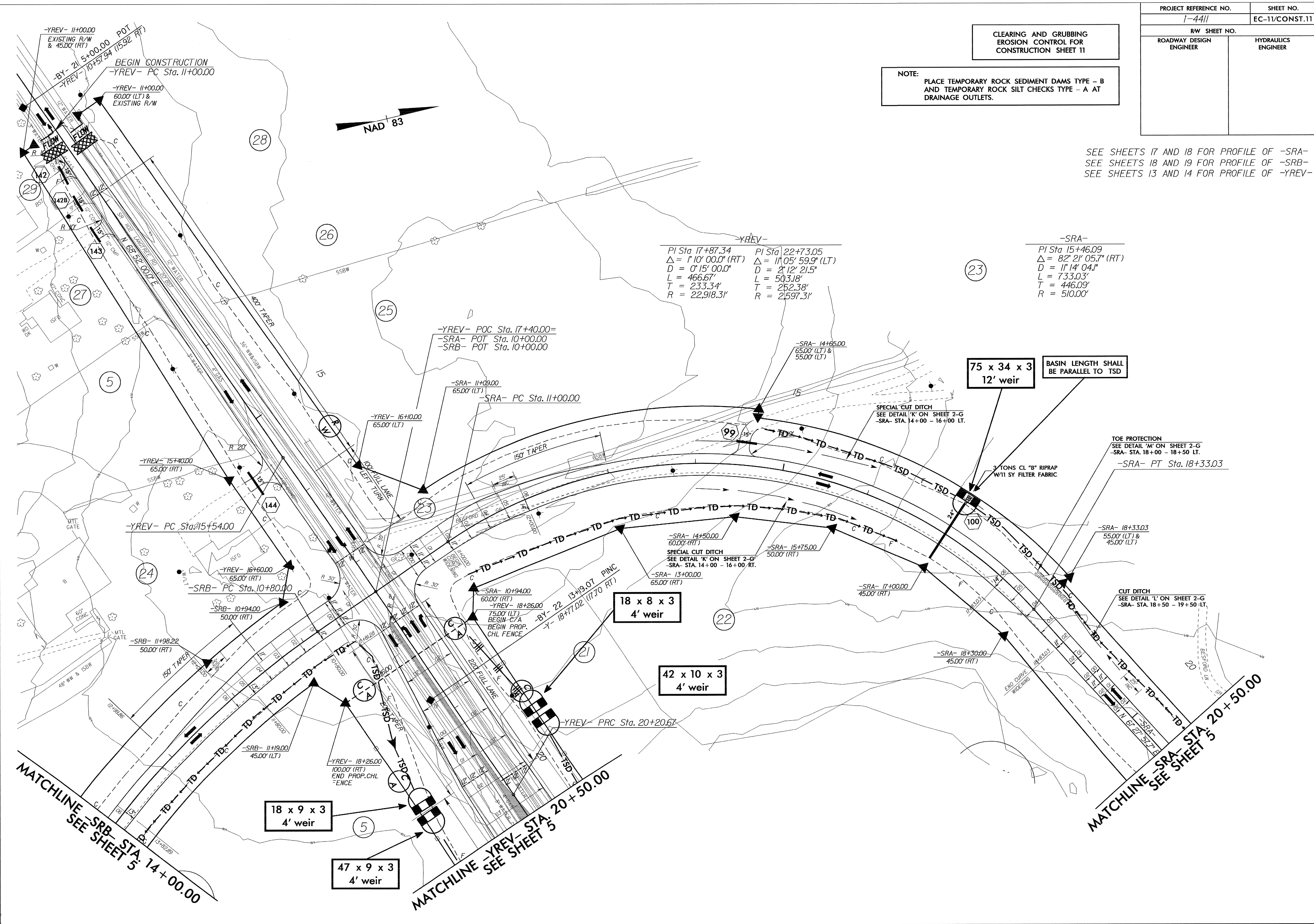
PROJECT REFERENCE NO.		SHEET NO.	
1-4411		EC-11/CONST.11	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

SEE SHEETS 17 AND 18 FOR PROFILE OF -SRA-
SEE SHEETS 18 AND 19 FOR PROFILE OF -SRB-
SEE SHEETS 13 AND 14 FOR PROFILE OF -YREV-

8/17/99
26-APR-2005 10:27
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11/22/2000



-YREV-
PI Sta 17+87.34 PI Sta 22+73.05
Δ = 1' 10' 00.0" (RT) Δ = 1' 05' 59.9" (LT)
D = 0' 15' 00.0" D = 2' 12' 21.5"
L = 466.67' L = 503.18'
T = 233.34' T = 252.38'
R = 22,918.31' R = 2,597.31'

-SRA-
PI Sta 15+46.09
Δ = 8' 2' 05.7" (RT)
D = 1' 14' 04.1"
L = 733.03'
T = 446.09'
R = 510.00'

-YREV- POC Sta. 17+40.00=
-SRA- POT Sta. 10+00.00
-SRB- POT Sta. 10+00.00

75 x 34 x 3
12' weir
BASIN LENGTH SHALL
BE PARALLEL TO TSD

TOE PROTECTION
SEE DETAIL 'M' ON SHEET 2-G
-SRA- STA. 18+00 - 18+50 LT.
-SRA- PT Sta. 18+33.03

18 x 8 x 3
4' weir

42 x 10 x 3
4' weir

18 x 9 x 3
4' weir

47 x 9 x 3
4' weir

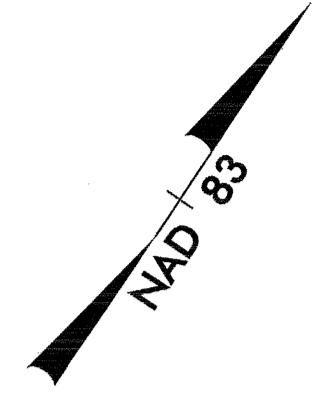
MATCHLINE -SRB- STA. 14+00.00
SEE SHEET 5

MATCHLINE -YREV- STA. 20+50.00
SEE SHEET 5

MATCHLINE -SRA- STA. 20+50.00
SEE SHEET 5

8/17/99

26-APR-2005 16:59
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jagocdm AT BENV21500

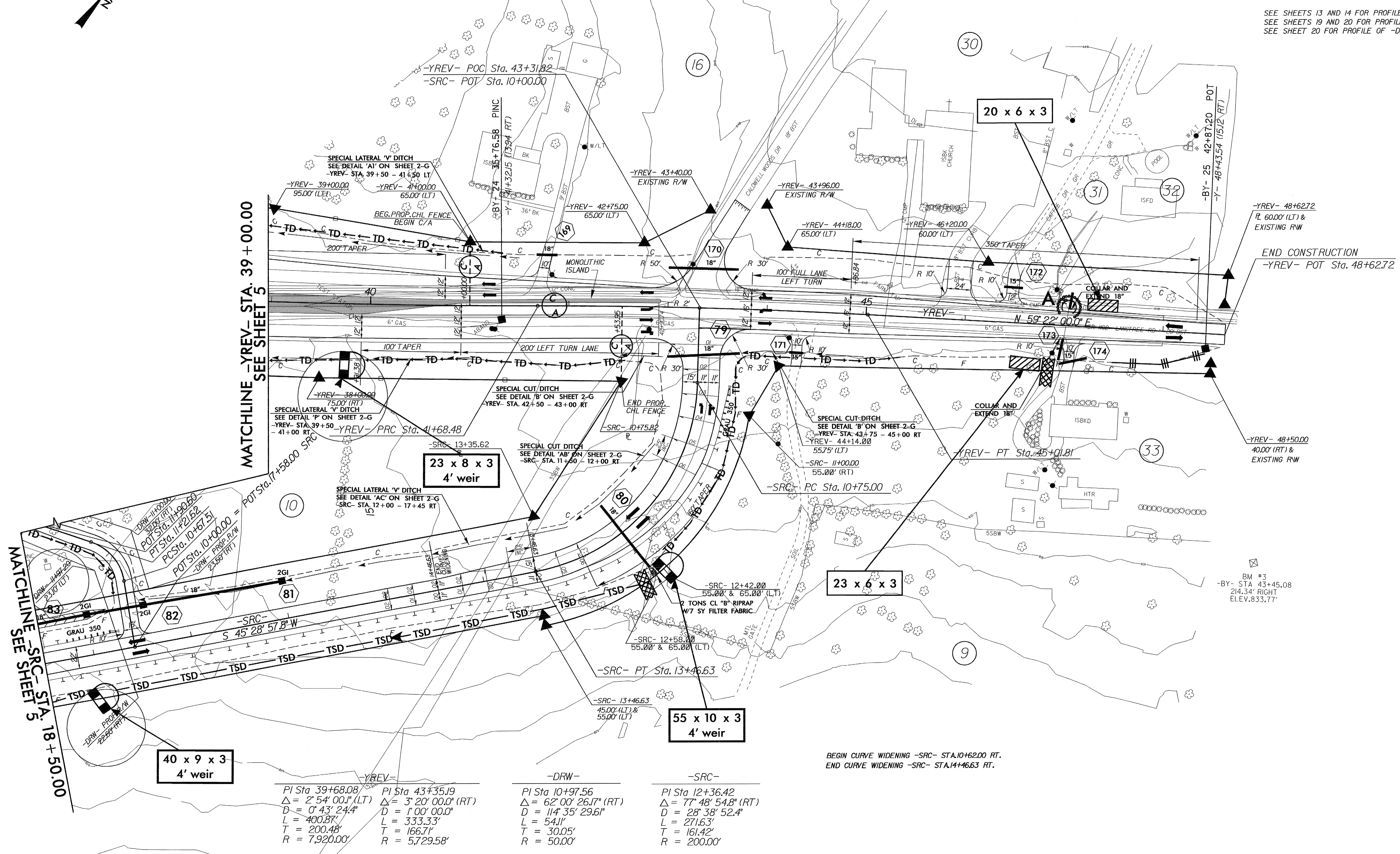


CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
1-4411	EC-12/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEETS 13 AND 14 FOR PROFILE OF -YREV-
SEE SHEETS 19 AND 20 FOR PROFILE OF -SRC-
SEE SHEET 20 FOR PROFILE OF -DRW-



MATCHLINE -YREV- STA. 39+00.00
SEE SHEET 5

MATCHLINE -SRC- STA. 18+50.00
SEE SHEET 5

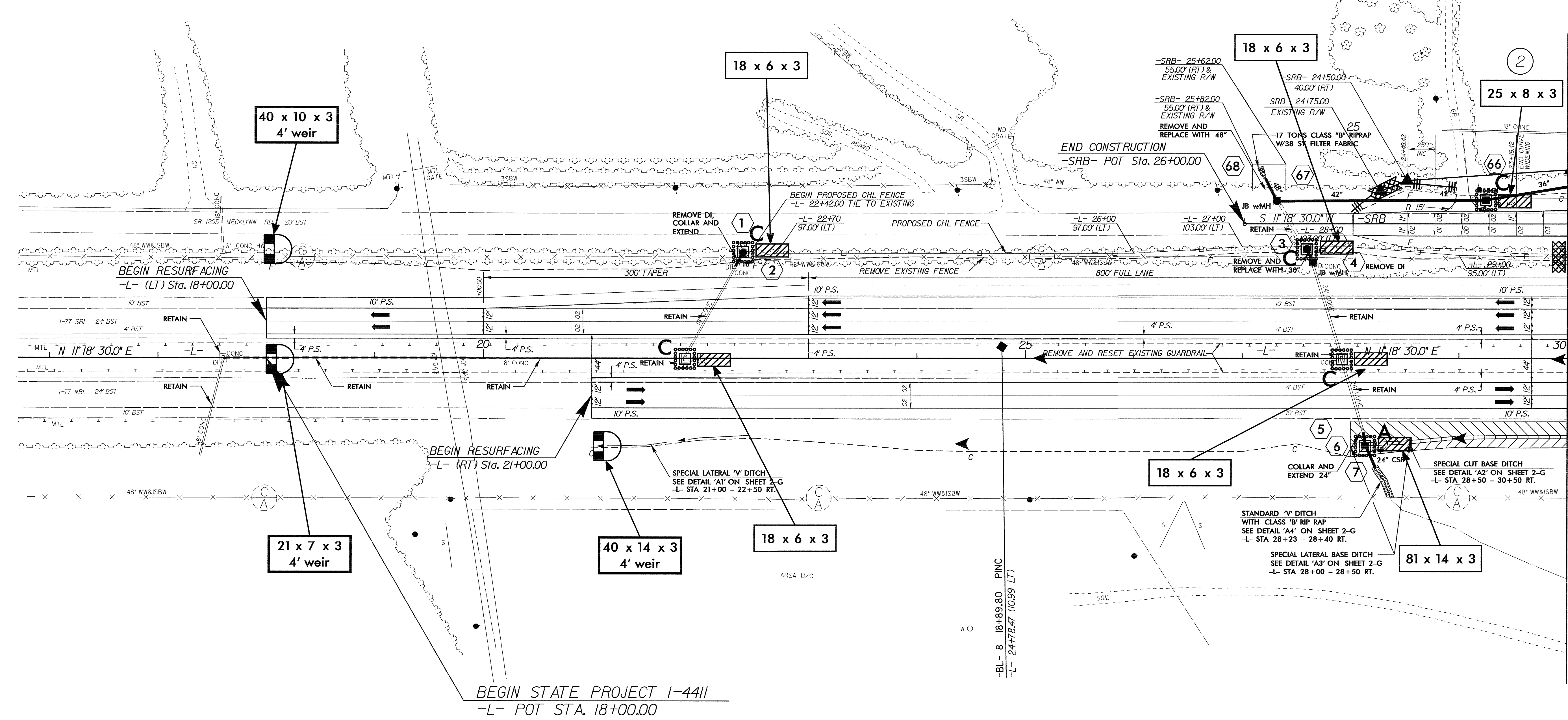
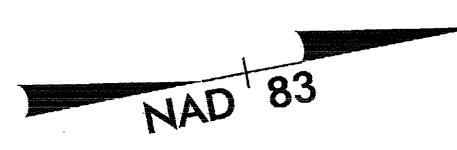
-YREV-	-SRC-	-DRW-	-SRC-
PI Sta. 39+68.08	PI Sta. 43+35.19	PI Sta. 10+97.56	PI Sta. 12+36.42
$\Delta = 2^\circ 54' 00.1''$ (LT)	$\Delta = 3^\circ 20' 00.0''$ (RT)	$\Delta = 62^\circ 00' 26.7''$ (RT)	$\Delta = 77^\circ 48' 54.8''$ (RT)
$D = 0^\circ 43' 24.4''$	$D = 1^\circ 00' 00.0''$	$D = 114^\circ 35' 29.6''$	$D = 28^\circ 38' 52.4''$
$L = 400.87'$	$L = 333.33'$	$L = 54.11'$	$L = 271.63'$
$T = 200.48'$	$T = 166.71'$	$T = 30.05'$	$T = 161.42'$
$R = 7,920.00'$	$R = 5,729.58'$	$R = 50.00'$	$R = 200.00'$

BEGIN CURVE WIDENING -SRC- STA. 10+62.00 RT.
END CURVE WIDENING -SRC- STA. 14+46.63 RT.

BM #3
-BY- STA. 43+45.08
214.34' RIGHT
ELEV. 833.77'

PROJECT REFERENCE NO.	SHEET NO.
1-4411	EC-13/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEETS 18 AND 19 FOR PROFILE OF -SRB-

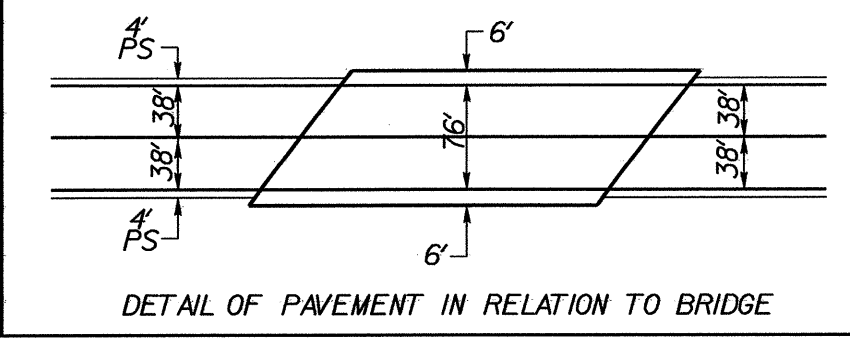
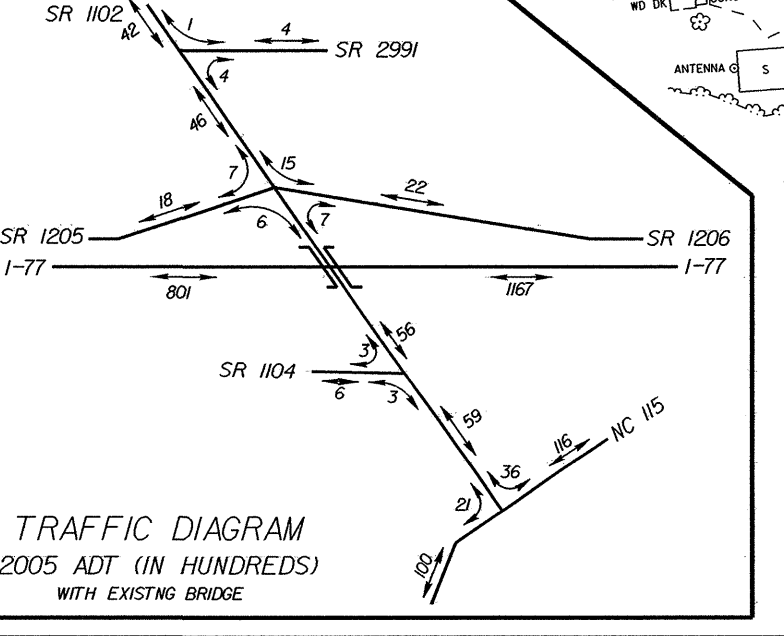
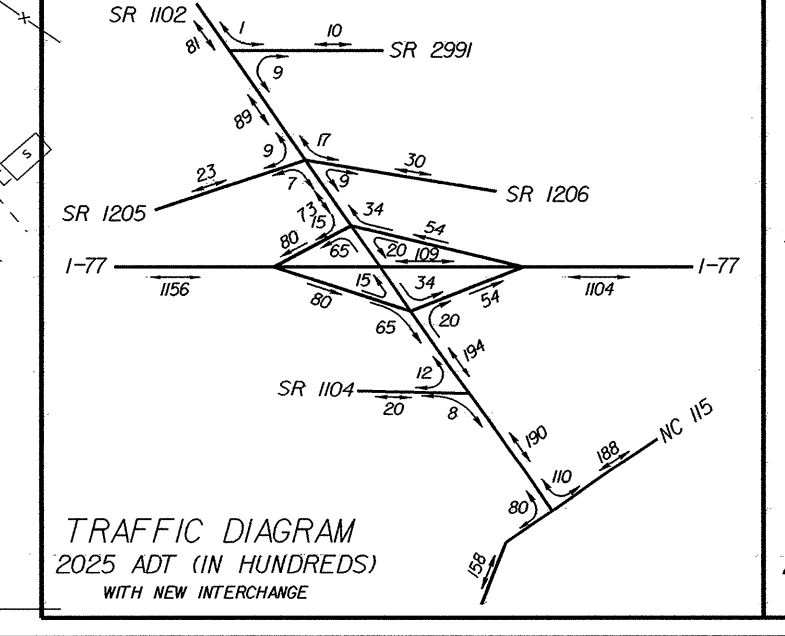
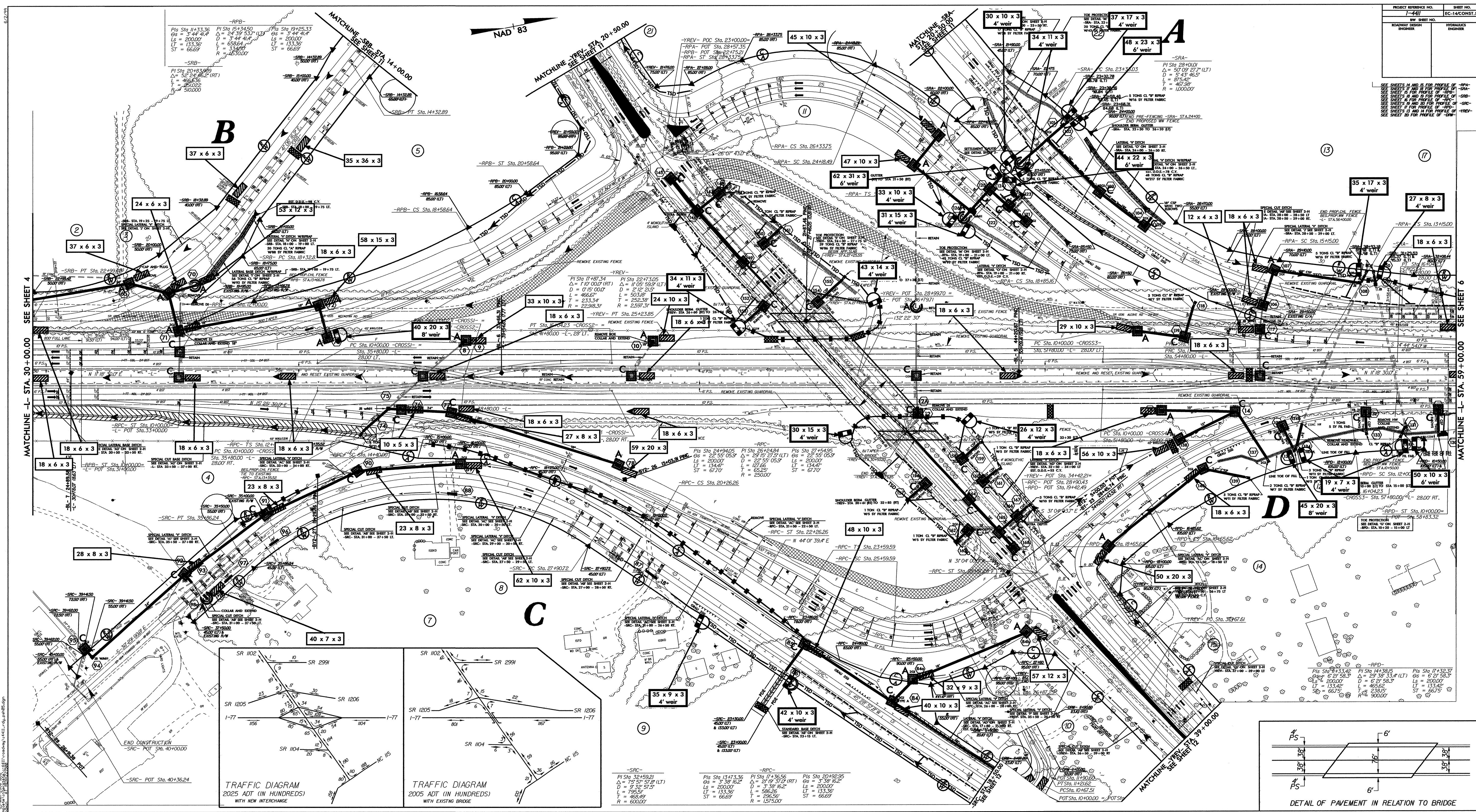


MATCHLINE -L- STA. 30+00.00 SEE SHEET 5

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCOS FOR MONUMENT "SCHOOL"
 WITH NAD 83 STATE PLANE GRID COORDINATES OF
 NORTHING: 67225270.40(f) EASTING: 1442140.3605(f)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985137
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SCHOOL" TO -L- STATION 18+00.00 IS
 S 08° 28' 03.94" E 22,110.5450
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NGVD 88

8/17/99
 26-APP-2005 (6/14)
 dt-v-reu\top\interstate\1-4411\c-oadway\1-4411_rdy_psh04.dgn
 logoodwin AT RENY21500

PROJECT REFERENCE NO.	SHEET NO.
1-441	EC-14-CONST.3
ROADWAY DESIGN ENGINEER	HORIZONTAL ENGINEER



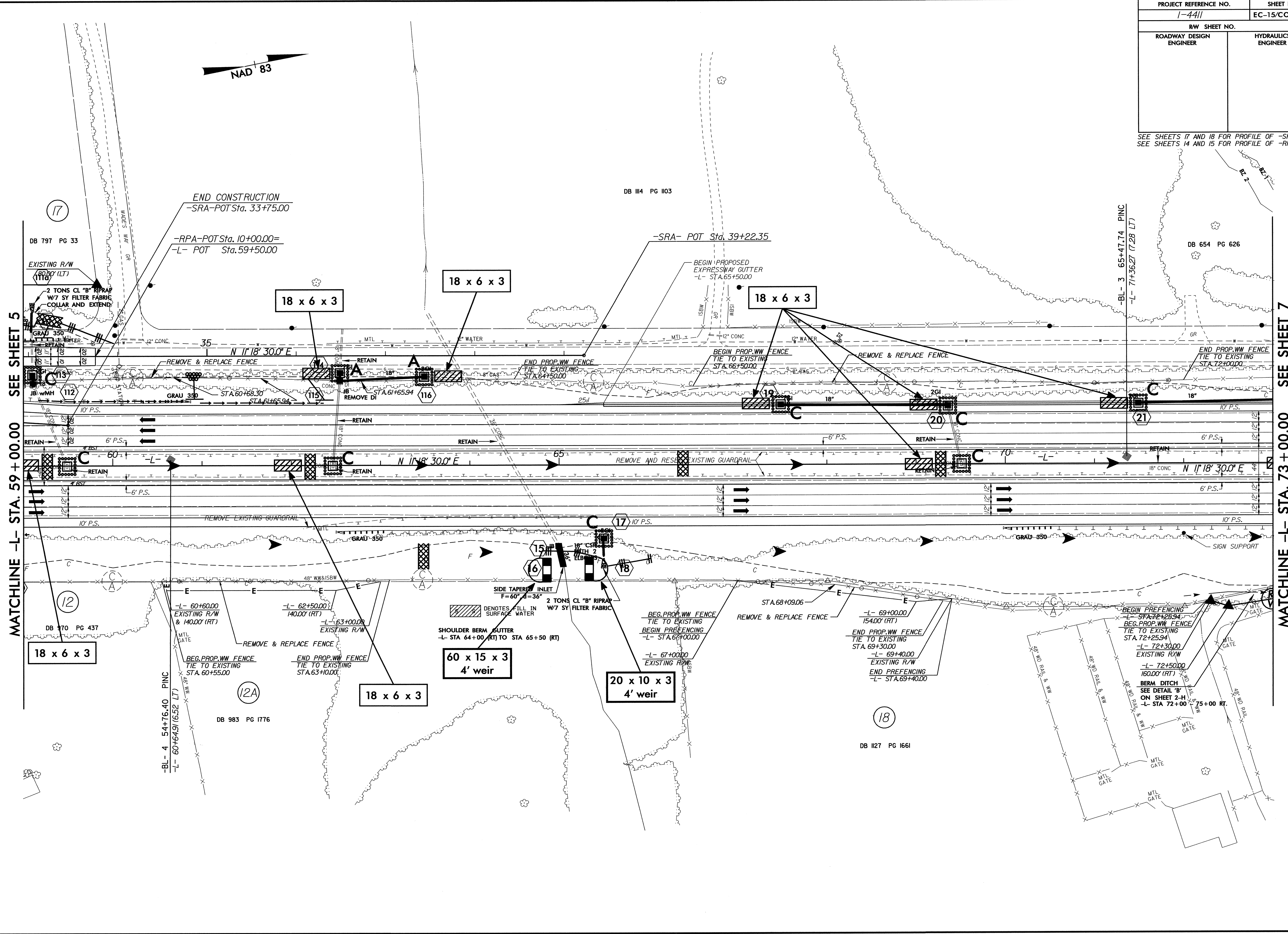
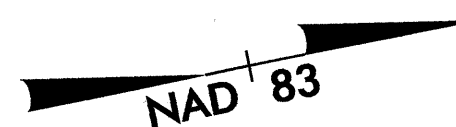
MATCHLINE -L- STA. 30+00.00 SEE SHEET 4

MATCHLINE -L- STA. 59+00.00 SEE SHEET 6

8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
1-4411		EC-15/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SEE SHEETS 17 AND 18 FOR PROFILE OF -SRA-
SEE SHEETS 14 AND 15 FOR PROFILE OF -RPA-



MATCHLINE -L- STA. 59 + 00.00 SEE SHEET 5

MATCHLINE -L- STA. 73 + 00.00 SEE SHEET 7

06-MAR-2006 09:33
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1500dwg_01_RFN21500

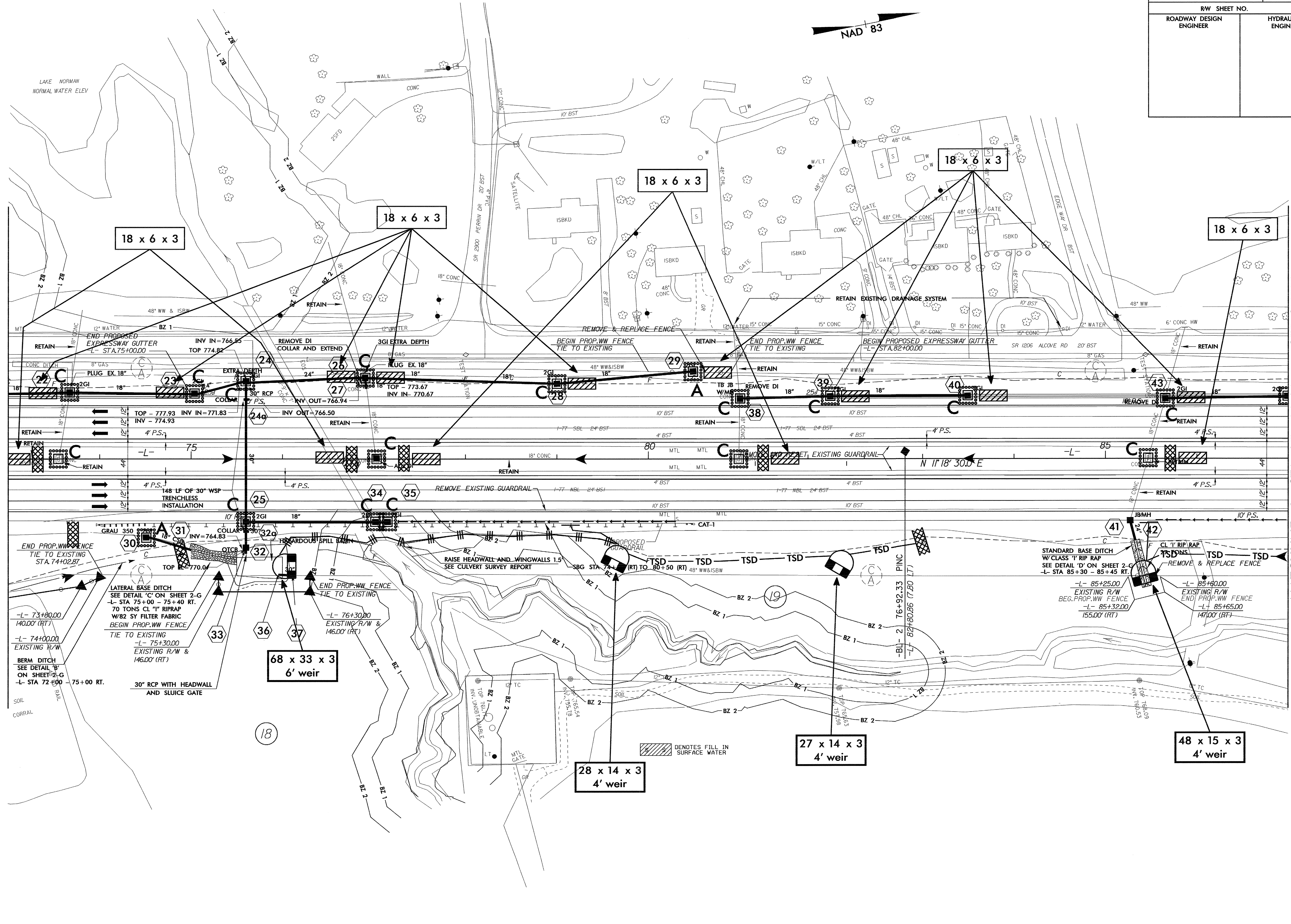
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
1-4411	EC-16/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -L- STA. 73+00.00 SEE SHEET 6

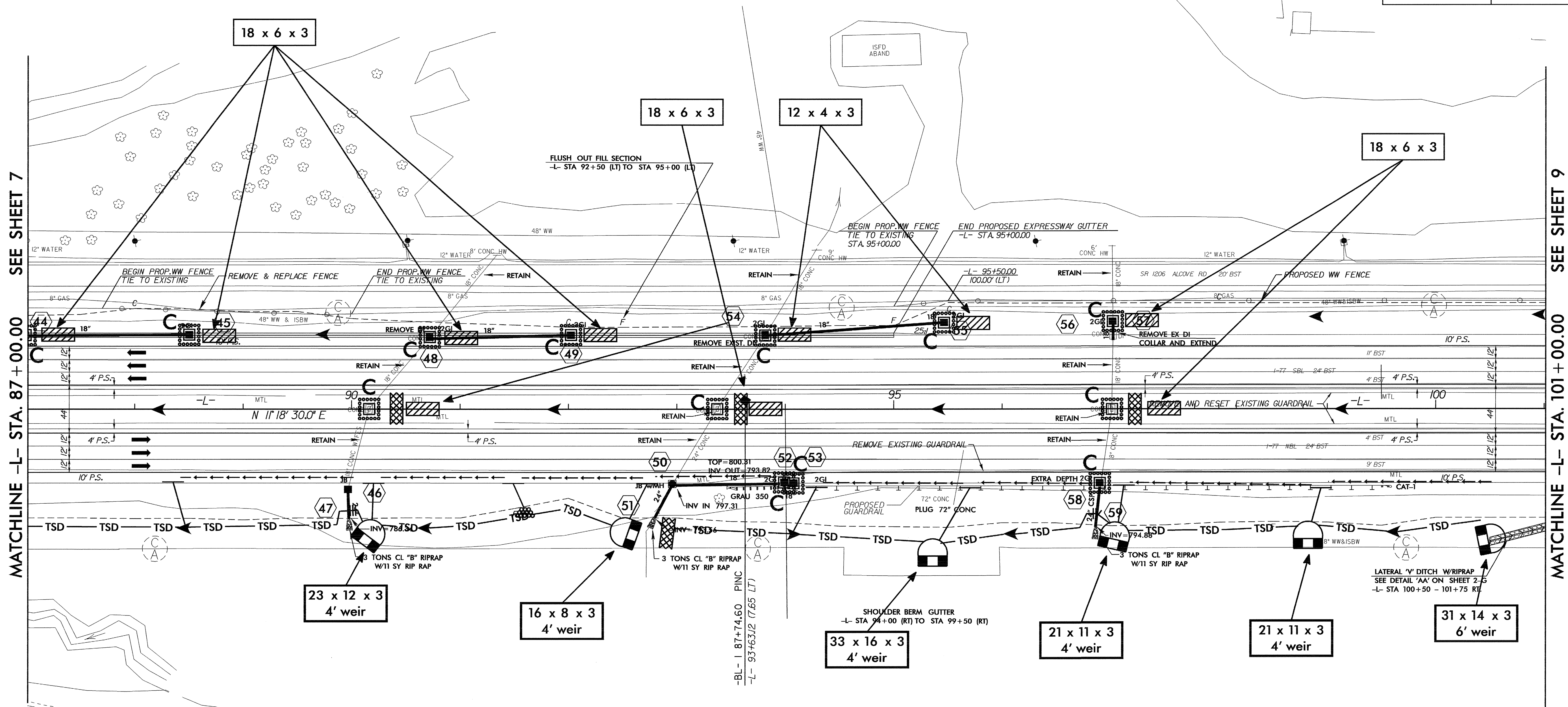
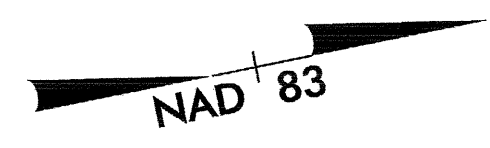
MATCHLINE -L- STA. 87+00.00 SEE SHEET 8

NAD 83



26-APR-2005 17:22
C:\p\14411\roadway\14411_rdu.pst\07.dgn
J:\p\14411\roadway\14411_rdu.pst\07.dgn

PROJECT REFERENCE NO. I-4411	SHEET NO. EC-17/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 87 + 00.00 SEE SHEET 7

MATCHLINE -L- STA. 101 + 00.00 SEE SHEET 9

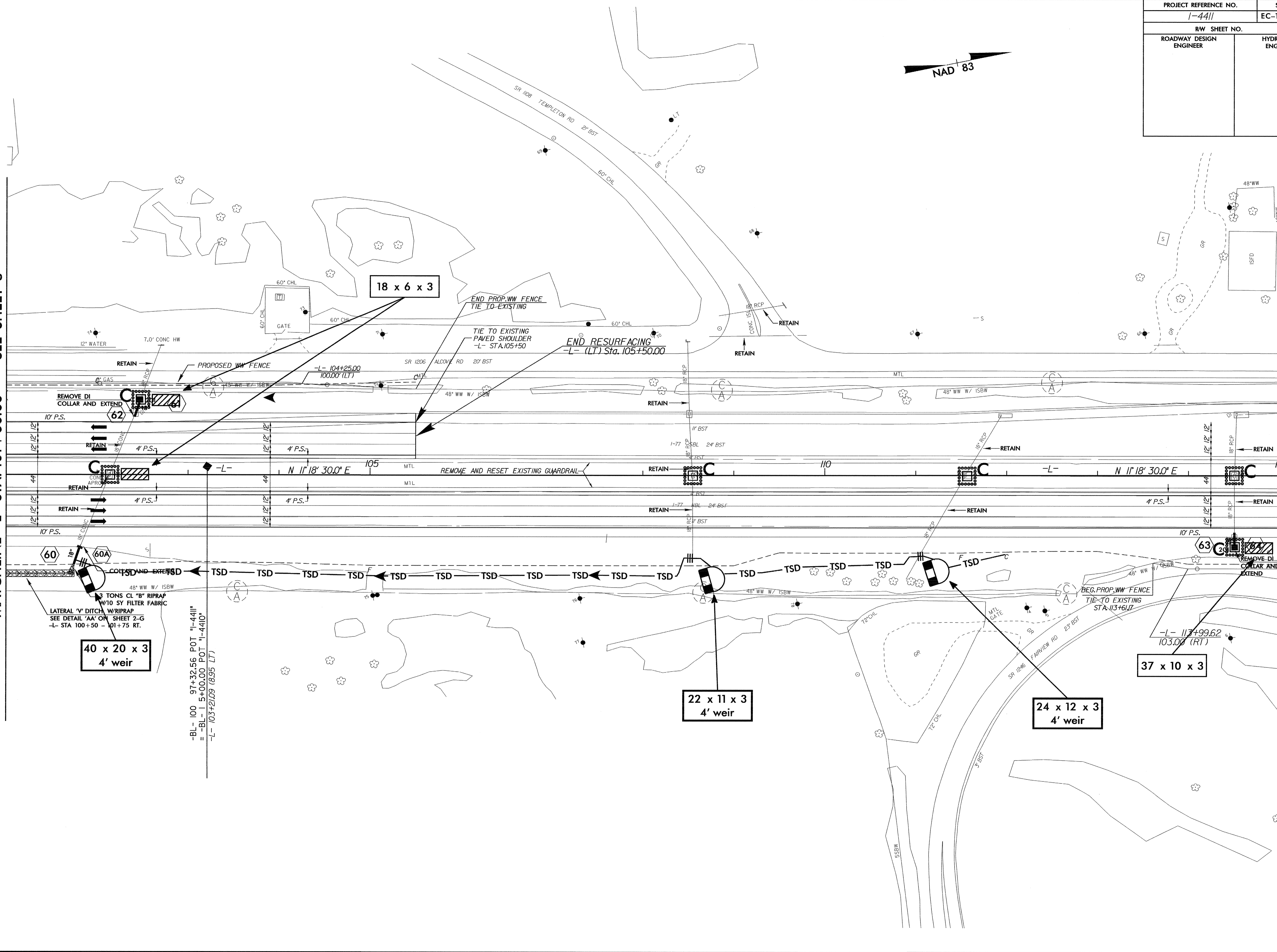
8/17/99
26-APR-2005 16:23
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PROJECT REFERENCE NO.		SHEET NO.
I-4411		EC-18/CONST.9
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER



MATCHLINE -L- STA. 101 + 00.00 SEE SHEET 8

MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 10



10 TONS CL "B" RIPRAP
W/10 SY FILTER FABRIC

40 x 20 x 3
4' weir

-BL- 100 97+32.56 POT "I-4411"
-BL- 101 5+00.00 POT "I-4410"
-L- 103+21.09 (6.95 LT)

22 x 11 x 3
4' weir

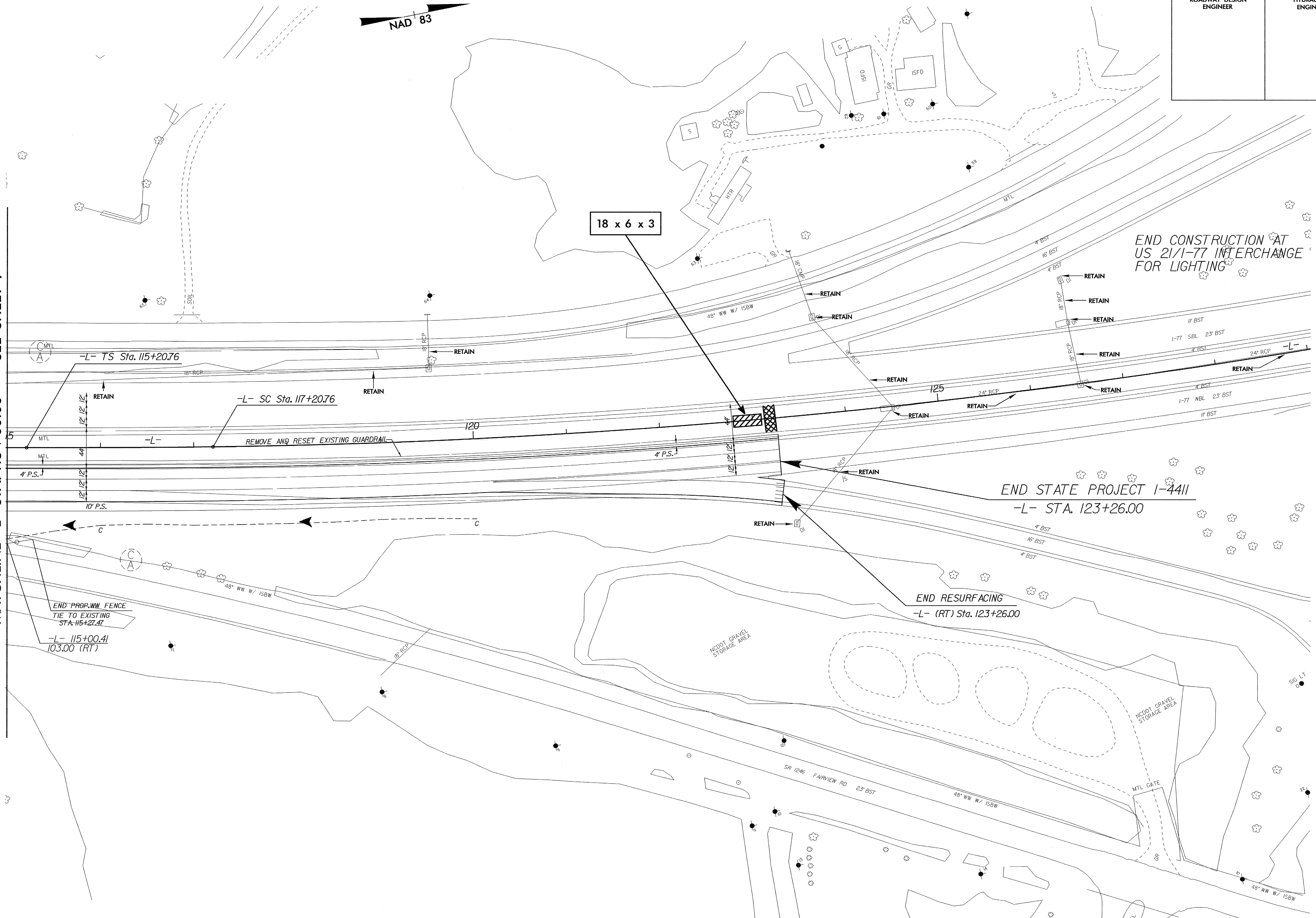
24 x 12 x 3
4' weir

37 x 10 x 3

PROJECT REFERENCE NO. 1-4411	SHEET NO. EC-19/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

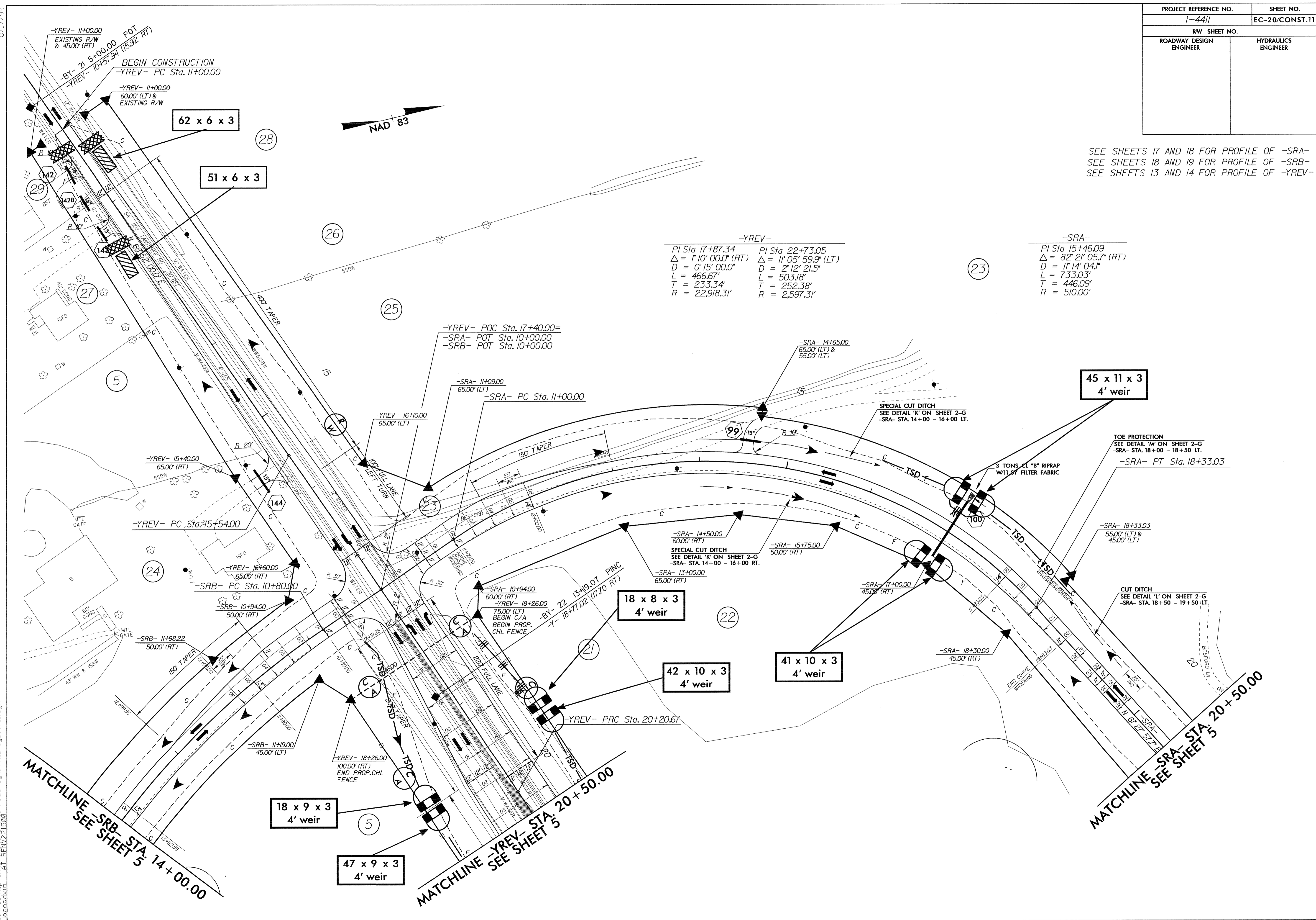
MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 9



8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
1-4411		EC-20/CONST.11	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SEE SHEETS 17 AND 18 FOR PROFILE OF -SRA-
 SEE SHEETS 18 AND 19 FOR PROFILE OF -SRB-
 SEE SHEETS 13 AND 14 FOR PROFILE OF -YREV-



-YREV-

PI Sta 17+87.34 Δ = 1° 10' 00.0" (RT) D = 0° 15' 00.0" L = 466.67' T = 233.34' R = 22,918.31'	PI Sta 22+73.05 Δ = 1° 05' 59.9" (LT) D = 2° 12' 21.5" L = 503.18' T = 252.38' R = 2,597.31'
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-SRA-

PI Sta 15+46.09 Δ = 82° 21' 05.7" (RT) D = 1° 14' 04.1" L = 733.03' T = 446.09' R = 510.00'
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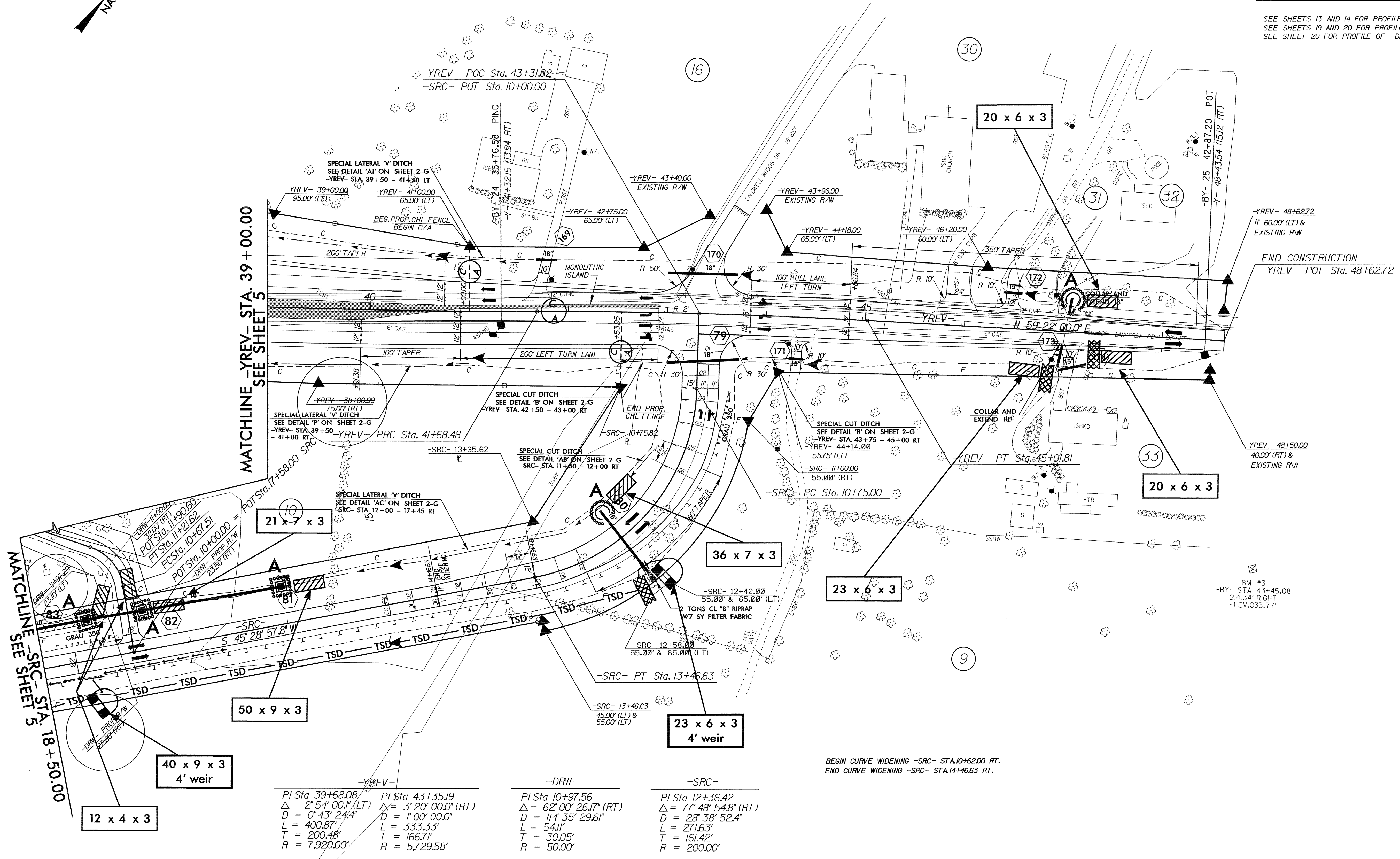
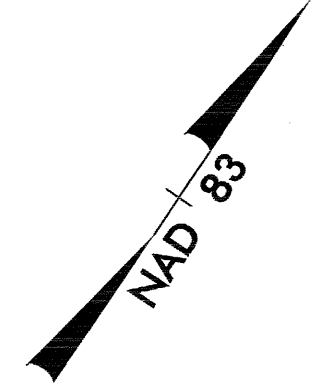
26-APR-2005 10:27
 de:\paul\p1\m\p1\14411\roadway\14411_rdy_psh11.dgn
 REVISION 1500

8/17/99

26-APR-2005 16:59
d:\reut\p\ink\stete\1441\roadwey\1441-r-dj-r-psh12.dgn
Jagoodwin AT BENV221500

PROJECT REFERENCE NO.		SHEET NO.	
1-441		EC-21/CONST.12	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SEE SHEETS 13 AND 14 FOR PROFILE OF -YREV-
SEE SHEETS 19 AND 20 FOR PROFILE OF -SRC-
SEE SHEET 20 FOR PROFILE OF -DRW-



MATCHLINE -YREV- STA. 39+00.00
SEE SHEET 5

MATCHLINE -SRC- STA. 18+50.00
SEE SHEET 5

-YREV- PI Sta. 39+68.08 Δ = 2° 54' 00.1" (LT) D = 0° 43' 24.4" L = 400.87' T = 200.48' R = 7,920.00'	-YREV- PI Sta. 43+35.19 Δ = 3° 20' 00.0" (RT) D = 1° 00' 00.0" L = 333.33' T = 166.71' R = 5,729.58'	-DRW- PI Sta. 10+97.56 Δ = 62° 00' 26.7" (RT) D = 11° 35' 29.6" L = 54.11' T = 30.05' R = 50.00'	-SRC- PI Sta. 12+36.42 Δ = 77° 48' 54.8" (RT) D = 28° 38' 52.4" L = 271.63' T = 161.42' R = 200.00'
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BEGIN CURVE WIDENING -SRC- STA. 10+62.00 RT.
END CURVE WIDENING -SRC- STA. 14+46.63 RT.

BM #3
-BY- STA. 43+45.08
214.34' RIGHT
ELEV. 833.77'