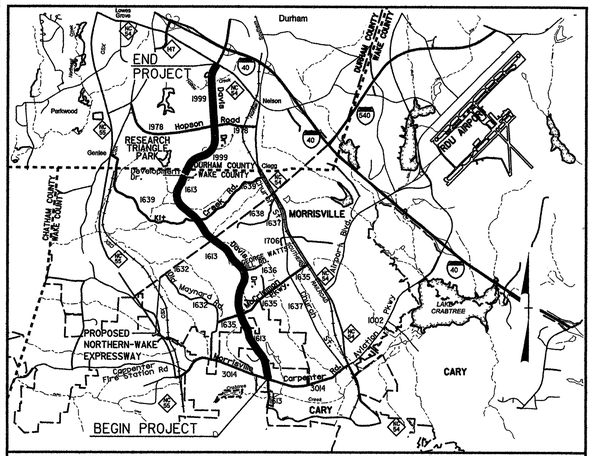
9/09/99

TIP PROJECT: U-4026

CONTRACT: C200840

See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4026	1	

WBS NO.	F.A. PROJ. NO.	DESCRIPTION
35018.1.1		P.E.
35018.2.1		R/W
35018.3.1		CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE–DURHAM COUNTIES

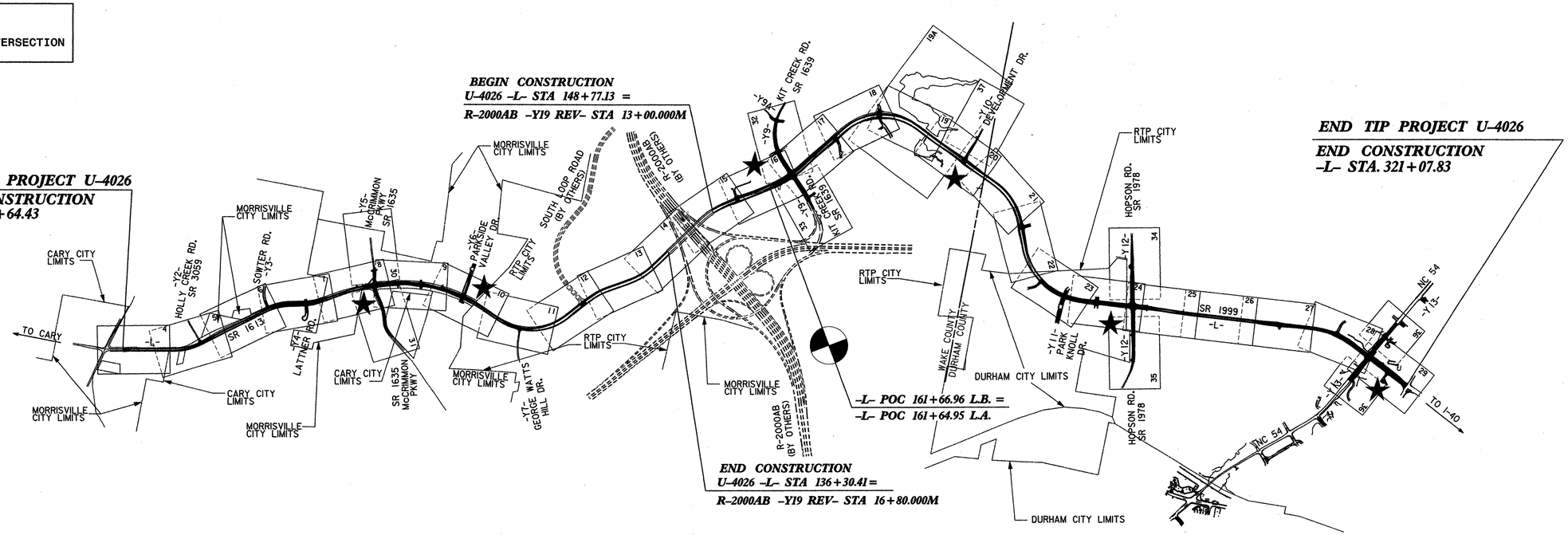
LOCATION: DAVIS DRIVE (SR 1613/1999) FROM 390' NORTH OF MORRISVILLE–CARPENTER ROAD (SR 3014) TO NORTH OF NC 54

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERTS, SIGNALS AND SIGNING

NC GRID NAD 83

LEGEND

★ SIGNALED INTERSECTION



NCDOT CONTACT: DOUG TAYLOR, P.E.
ROADWAY DESIGN - ENGINEERING COORDINATION

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT (2004) = 24155
ADT (2024) = 45055
DHV = 12 %
D = 65 %
T = 4 % *
V = 55 MPH (SHLD)
= 50 MPH (C&G)
* TTST 1 % DUAL 3 %

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4026 = 5.587 MI.
TOTAL LENGTH OF TIP PROJECT U-4026 = 5.587 MI.

Prepared In the Office of:
KO & ASSOCIATES, P.C.
1011 Schaub Dr. Suite 202, Raleigh, NC 27606 919-851-6066
for
North Carolina Department of Transportation

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
U-4026A – APRIL 29, 2003
U-4026B – JUNE 30, 2003

LETTING DATE:

Stephen R. Whitley, P.E.
PROJECT ENGINEER

David C. Waller, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 021162 ENGINEER W. HERBERT TURNER
P.E.
SIGNATURE: 5-4-2006

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY
P.E.
SIGNATURE: 5-4-2006

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

P.E.
STATE HIGHWAY DESIGN ENGINEER

5/24/2006
R:\Roadway\Proj\u4026.tsh
KO & Associates, P.C.

TIP PROJECT: U-4026

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4026	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

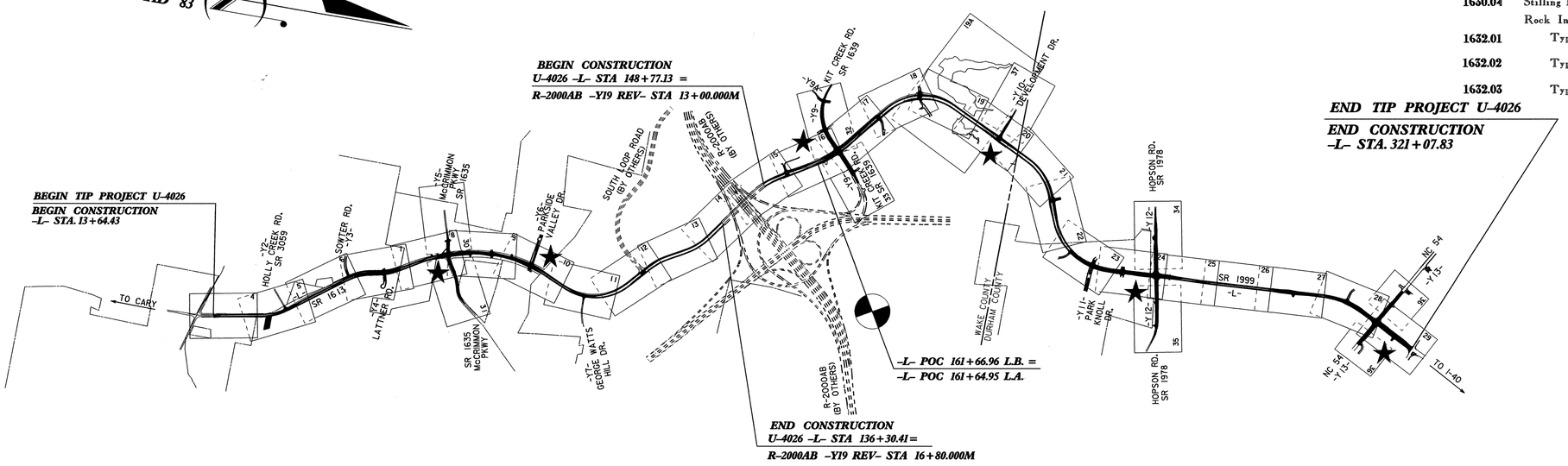
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WAKE–DURHAM COUNTIES

LOCATION: DAVIS DRIVE (SR 1613/1999) FROM 390' NORTH OF MORRISVILLE–CARPENTER ROAD (SR 3014) TO NORTH OF NC 54

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERTS AND SIGNALS.

NC GRID NAD 83



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A OR A
1632.02	Type B	B OR B
1632.03	Type C	C OR 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.

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

2006 STANDARD SPECIFICATIONS

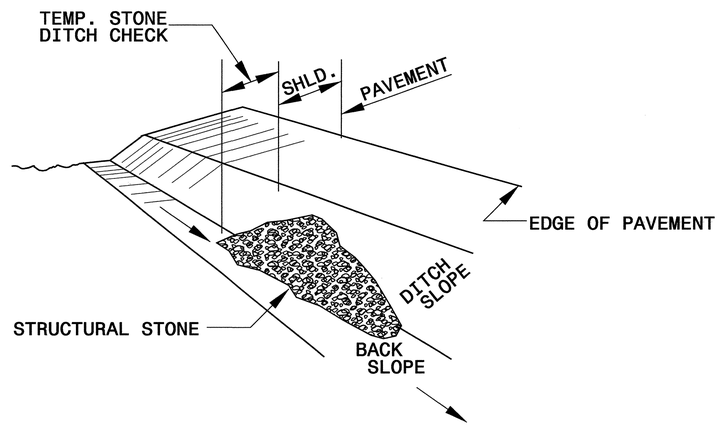
Roadway Standard Drawings

The following roadway <u>english</u> standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

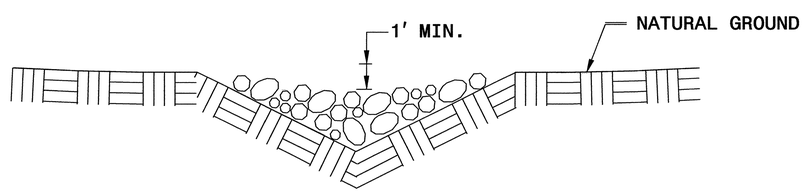
1605.01	Temporary Silt Fence	1630.06	Special Stilling Basin
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.05	Temporary Diversion		

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

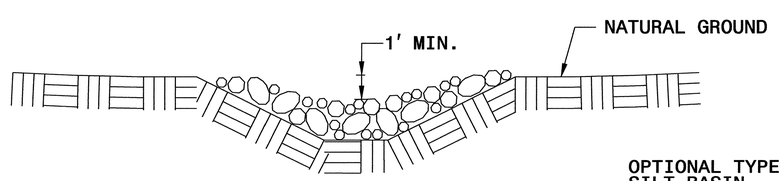
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



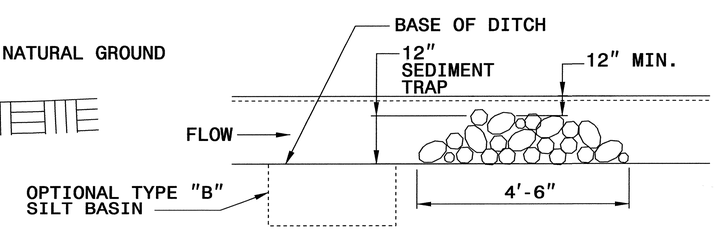
ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

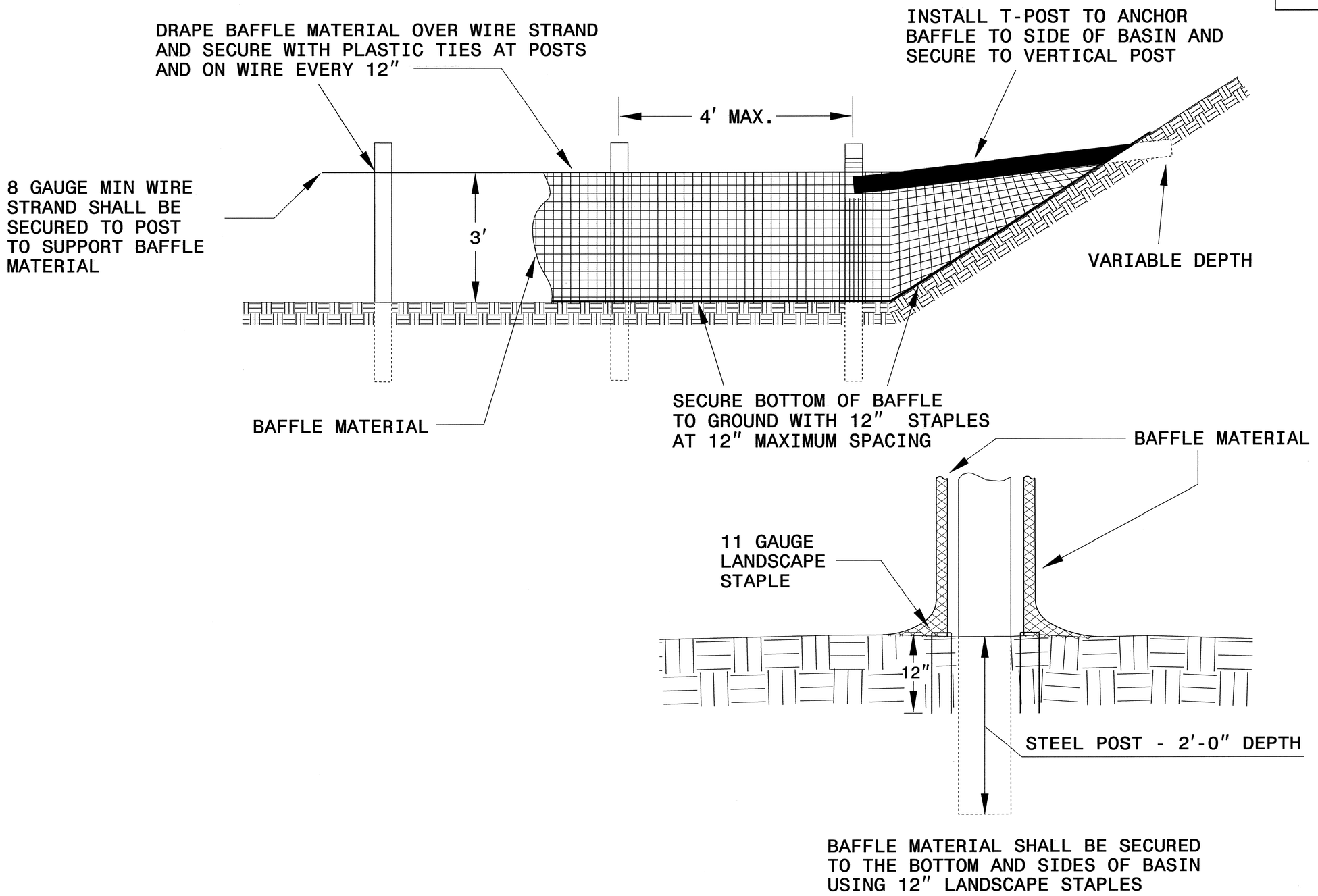
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

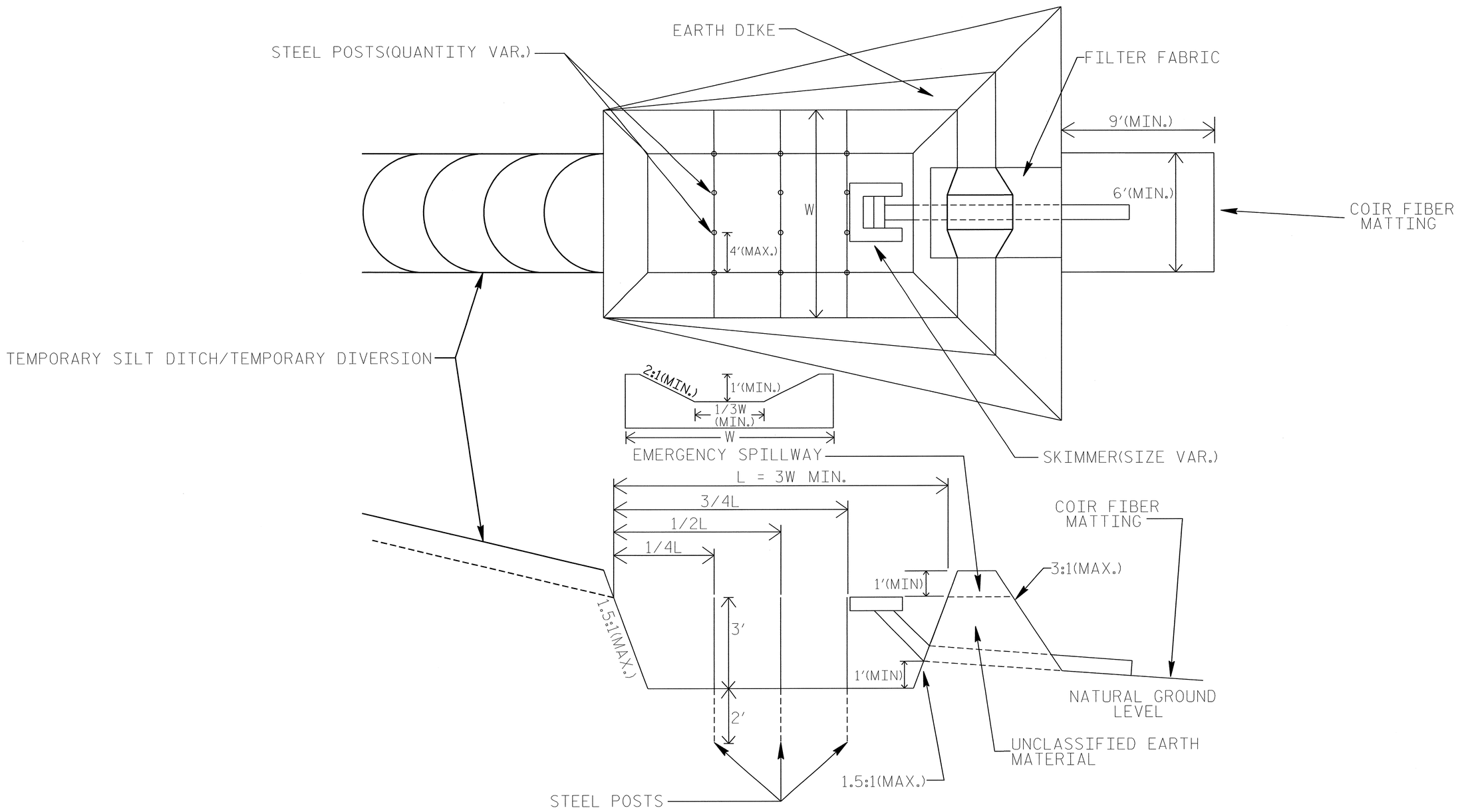
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



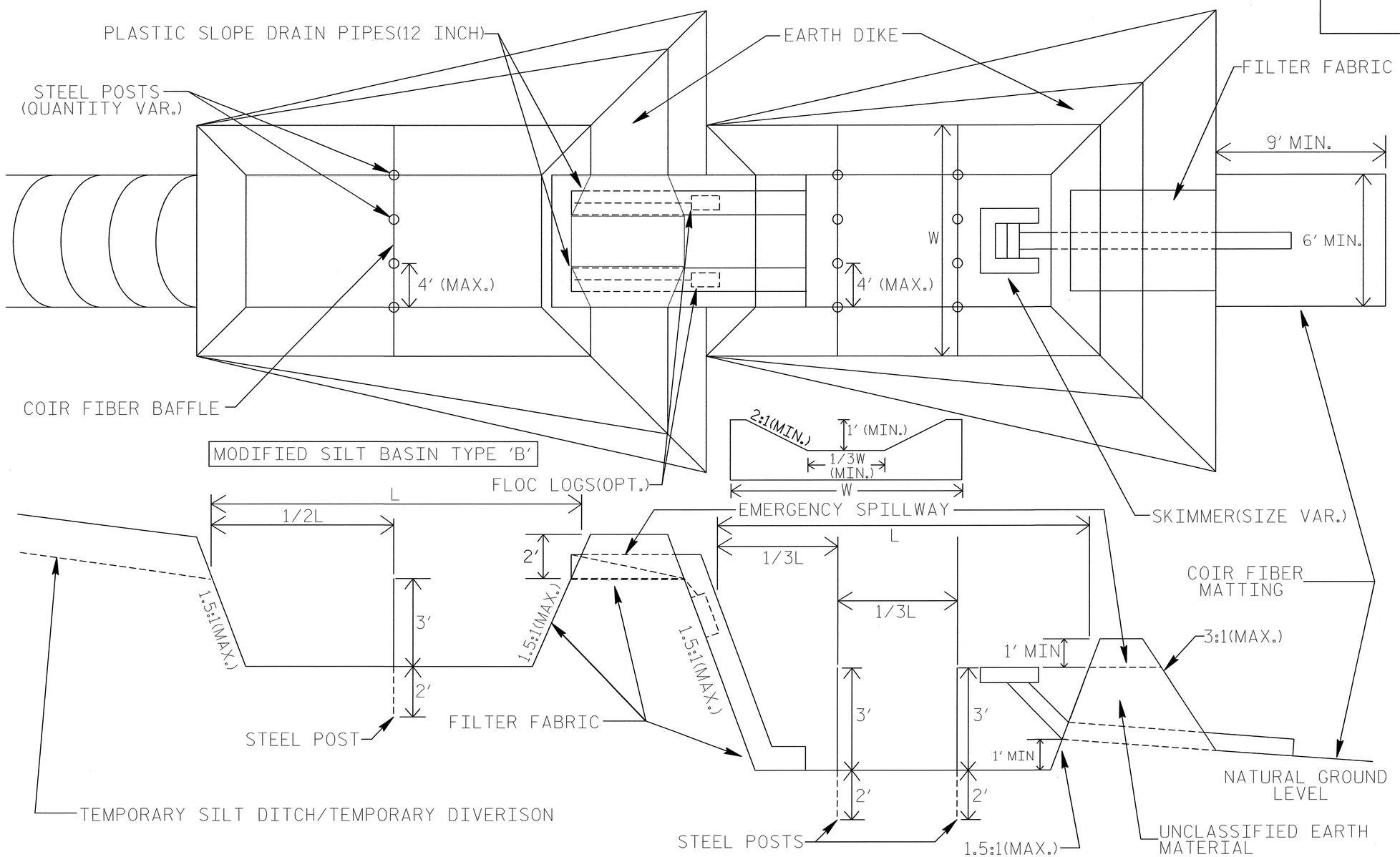
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL



NOTE

ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-4026	EC-3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

SOIL STABILIZATION SUMMARY SHEET

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	14+00	20+50	RT	335
4	L	17+30	18+40	LT	65
4	L	19+00	20+50	LT	80
5	L	29+50	40+00	RT	590
6	L	43+75	51+50	RT	395
6	L	46+50		LT	55
6	L	46+50	53+00	LT	250
7	L	54+00	58+00	LT	225
8	L	58+50	67+00	RT	480
8	L	58+50	64+50	LT	340
8	Y5	22+50	32+57	RT	570
8	Y5	23+50	24+00	LT	30
8	Y5	26+50	30+00	LT	180
9	L	71+00	86+50	RT	790
9	L	75+50	77+50	LT	115
9	L	78+50	78+68	LT	15
9	L	80+00	85+00	LT	865
10	L	91+50	100+00	RT	1495
10	L	88+00	89+50	LT	65
11	L - BERM	96+00	100+00	RT	120
11	L	94+75	95+02	LT	25
11	L	101+00	101+50	RT	25
11	L	103+70		RT	40
11	L	104+00	108+00	RT	280
11	L	102+50	103+50	LT	60
11	L	103+00	114+50	MED	615
13	L	126+50	128+00	LT	145
15	L	149+00	158+00	RT	1485
15	L	149+00	153+50	MED	510
16	L	156+50	161+50	LT	335

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
16	L	155+00	161+50	MED	730
16	L	159+00	165+50	RT	525
17	L	168+00	177+00	LT	725
18	L	180+50	181+00	RT	40
18	L	182+00	186+50	RT	365
18	L - BERM	182+00	184+50	RT	75
18	L - BERM	187+00	189+50	RT	75
18	L	179+00	187+50	MED	1045
19	L - BERM	194+00	196+50	RT	75
19	L	194+50	199+00	RT	365
20	L	211+00	212+00	RT	75
20	L	210+00	214+50	LT	365
20	L	210+00	227+00	MED	1140
21	L	215+50	217+00	RT	70
22	L	232+50	238+00	RT	225
22	L	229+50	230+50	LT	50
22	L	234+50	239+00	LT	915
22	L	228+50	239+50	MED	670
23	L	240+00	240+50	LT	25
25	L	266+50	267+00	RT	20
25	L	262+00	267+00	LT	175
27	L	286+00	290+50	RT	200
27	L	288+50	299+00	LT	290
27	L - BERM	294+00	298+00	LT	190

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-4026	EC-3A	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
28	L - BERM	298+50	299+50	LT	15
29	Y13	22+00	25+00	LT	125
30	Y5	19+50	21+15	LT	75
31	Y5	30+07	30+32	LT	15
31	Y5	34+50	36+50	RT	85
32	Y9	11+00	11+50	RT	25
32	Y9	21+00	25+00	LT	185
35	Y12	36+00	40+50	LT	410
36	Y13	17+00	23+50	RT	785
36	Y13	17+00	18+50	LT	80
37	Y10	8+50	9+50	LT	45
				SUBTOTAL	20655
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					17090
				TOTAL	37745
				SAY	38000

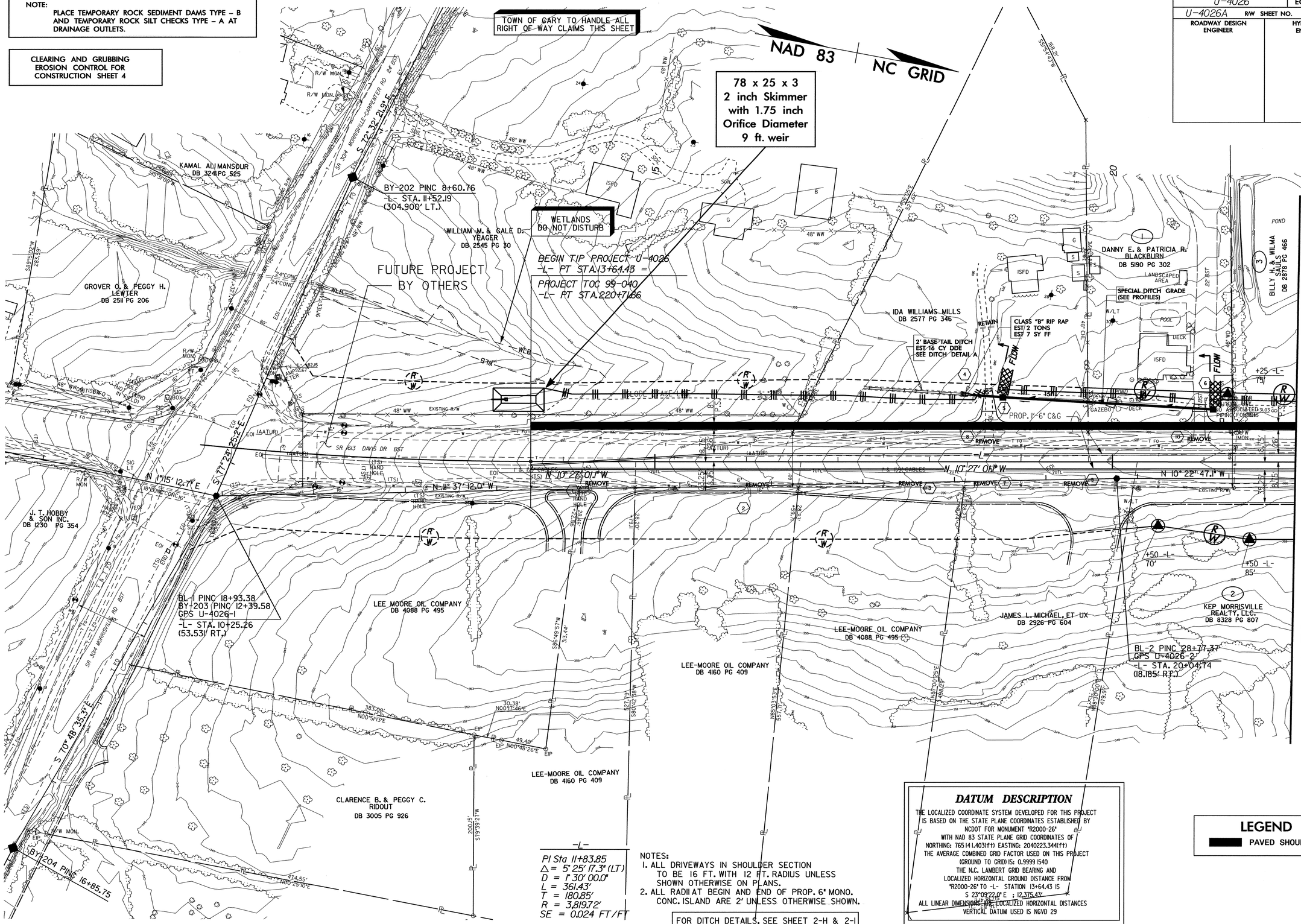
MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-4/CONST.4
U-4026A R/W SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4



NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 38

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2000-26" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 765141.403(ft) EASTING: 2040223.344(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999 1540 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2000-26" TO -L- STATION 13+64.43 IS S 23°09'22.0" E ; 12,375.43' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

LEGEND

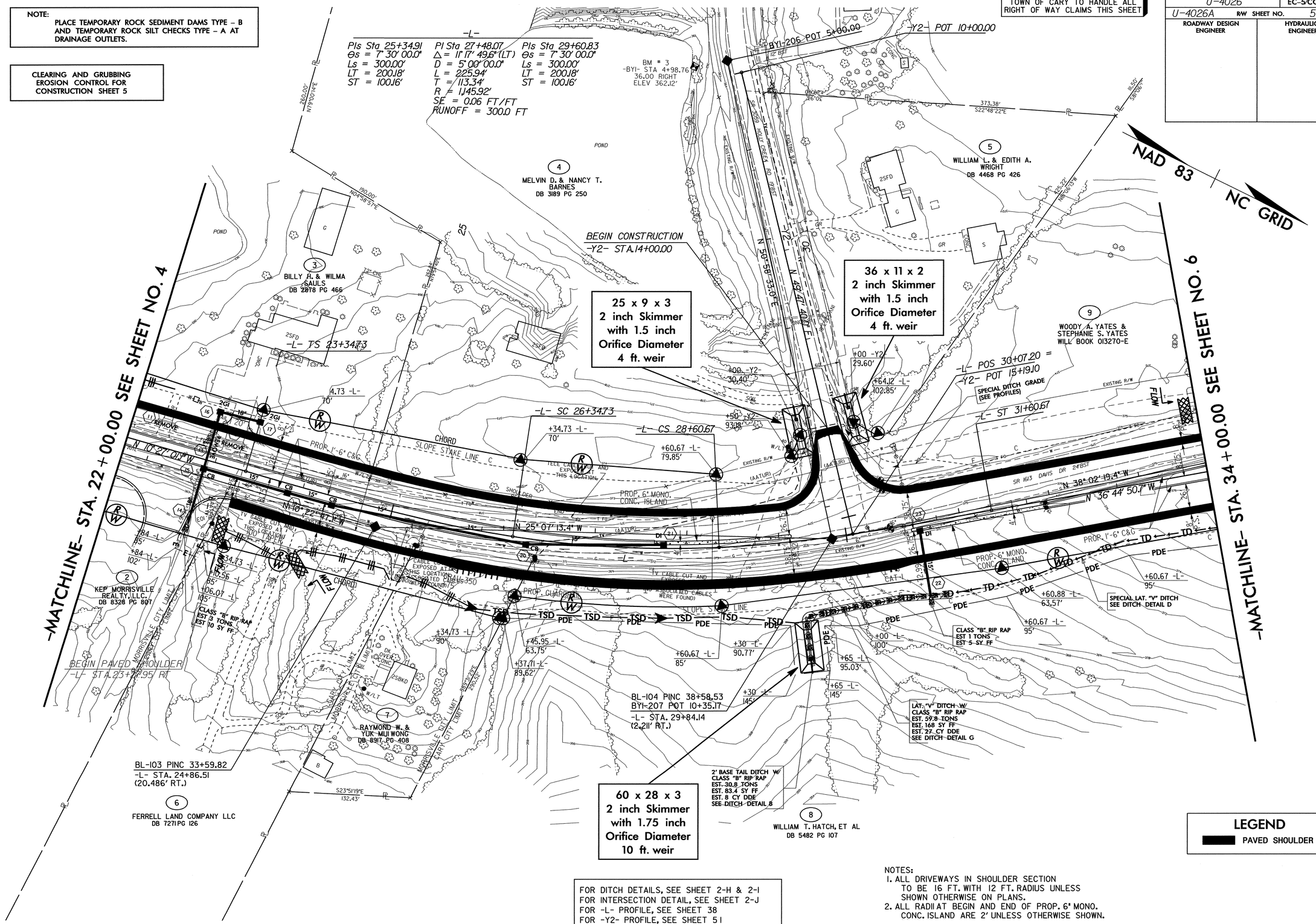
PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-5/CONST.5
U-4026A R/W SHEET NO. 5	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5



FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR -L- PROFILE, SEE SHEET 38
FOR -Y2- PROFILE, SEE SHEET 51

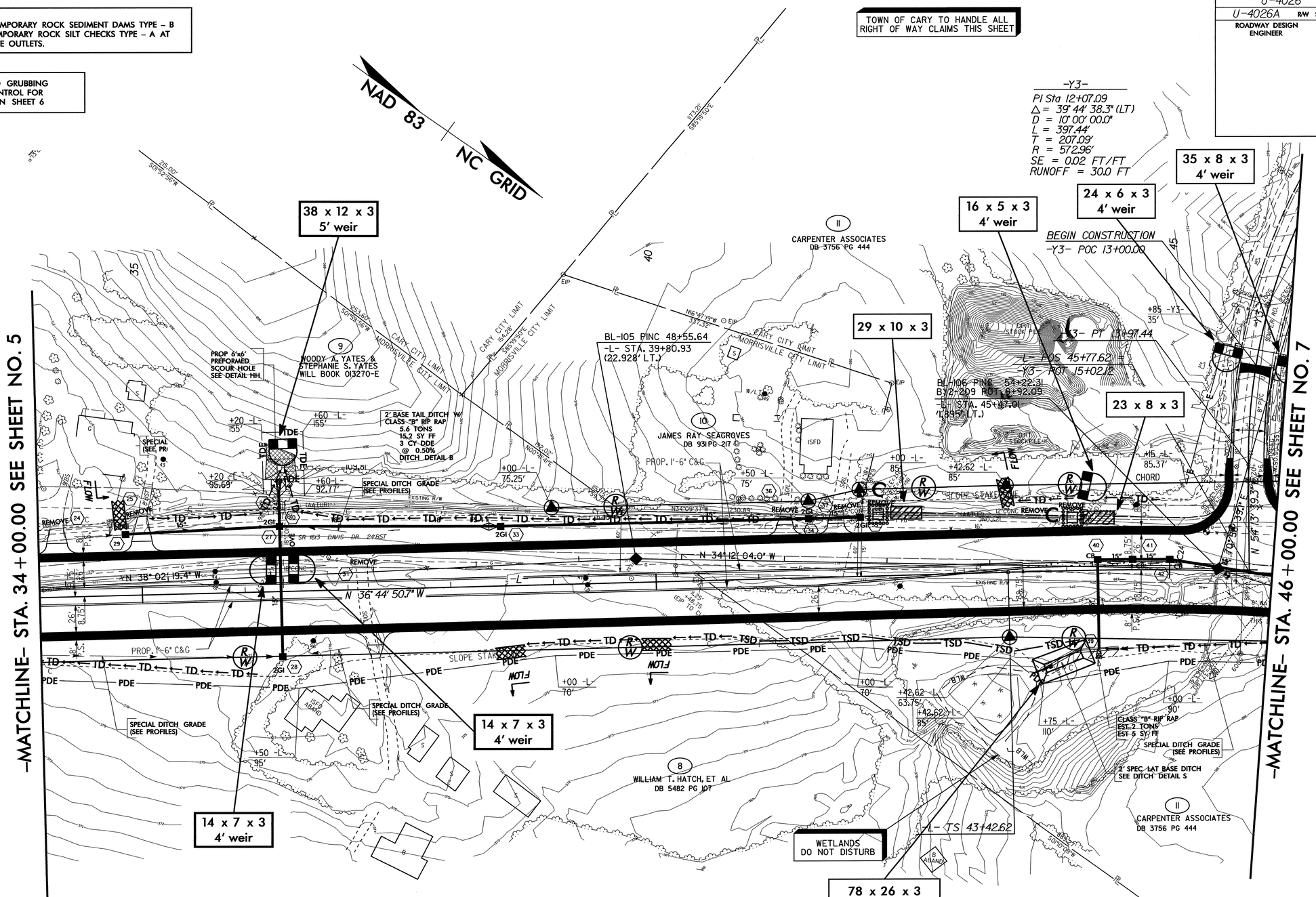
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-6/CONST.6
U-4026A R/W SHEET NO. 6	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



LEGEND
PAVED SHOULDER

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

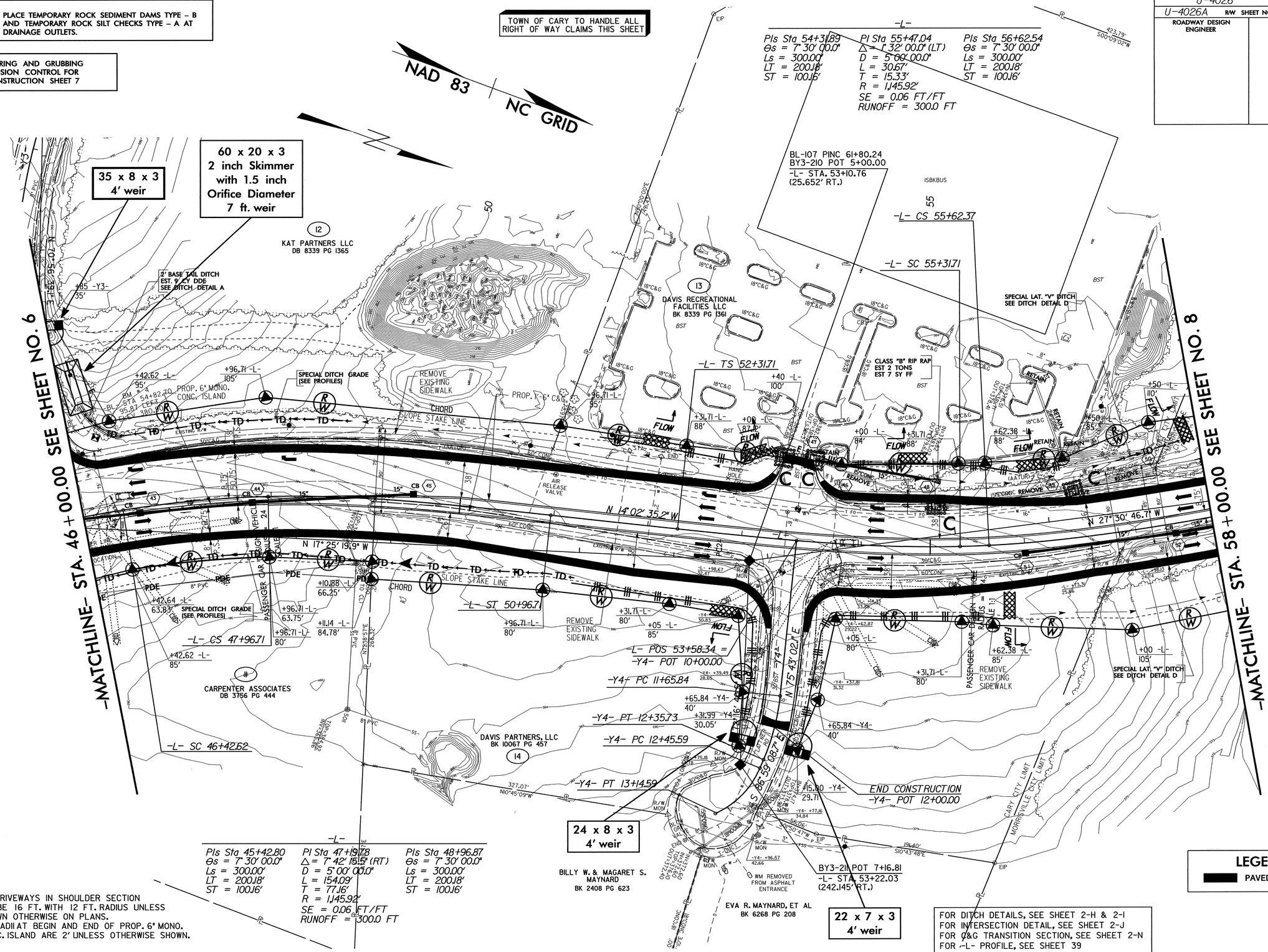
FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 39
FOR -Y3- PROFILE, SEE SHEET 51

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-7/CONST.7
U-4026A R/W SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



-L-		
PIs Sta 45+42.80	PI Sta 47+19.78	PIs Sta 48+96.87
Θs = 7° 30' 00.0"	Δ = 7° 42' 15.5" (RT)	Θs = 7° 30' 00.0"
Ls = 300.00'	D = 5° 00' 00.0"	Ls = 300.00'
LT = 200.18'	L = 154.09'	LT = 200.18'
ST = 100.16'	T = 77.16'	ST = 100.16'
	R = 1,145.92'	
	SE = 0.06 FT/FT	
	RUNOFF = 300.0 FT	

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND
PAVED SHOULDER

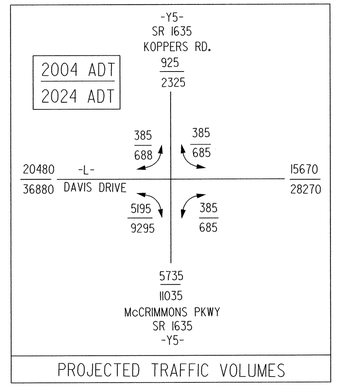
FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 39
FOR -Y4- PROFILE, SEE SHEET 51

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-8/CONST.8
U-4026A R/W SHEET NO.	8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

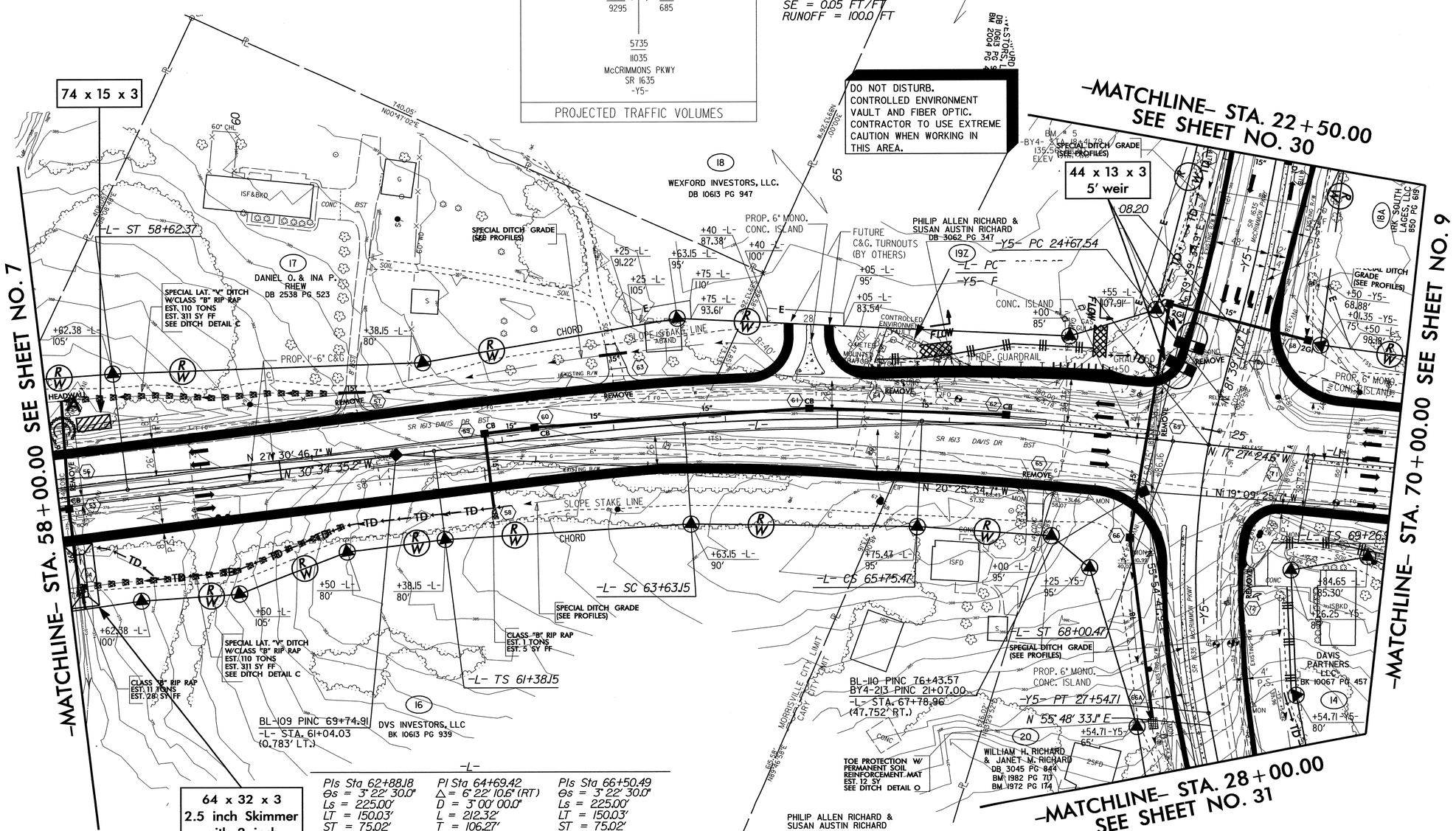
TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



PROJECTED TRAFFIC VOLUMES

NAD 83 / NC GRID

-Y5-
PI Sta 22+49.68
Δ = 9° 31' 59.3" (RT)
D = 3° 00' 00.0"
L = 317.77'
T = 159.25'
R = 1,909.86'
SE = 0.05 FT/FT
RUNOFF = 100.0 FT



-L-
PIs Sta 62+88.18
Θs = 3° 22' 30.0"
Ls = 225.00'
LT = 150.03'
ST = 75.02'

PI Sta 64+69.42
Δ = 6° 22' 10.6" (RT)
D = 3° 00' 00.0"
L = 212.32'
T = 106.27'
R = 1,909.86'
SE = 0.05 FT/FT
RUNOFF = 225.0 FT

PIs Sta 66+50.49
Θs = 3° 22' 30.0"
Ls = 225.00'
LT = 150.03'
ST = 75.02'

64 x 32 x 3
2.5 inch Skimmer with 2 inch Orifice Diameter
11 ft. weir

-L-
PIs Sta 70+60.27
Θs = 2° 00' 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

-Y5-
PI Sta 26+13.61
Δ = 25° 50' 43.9" (LT)
D = 9° 00' 00.0"
L = 287.17'
T = 146.07'
R = 636.62'
SE = 0.02 FT/FT
RUNOFF = 68.0 FT

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR -L- PROFILE, SEE SHEET 40
FOR -Y5- PROFILE, SEE SHEET 52

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-9/CONST.9
U-4026A R/W SHEET NO.	9
U-4026B R/W SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

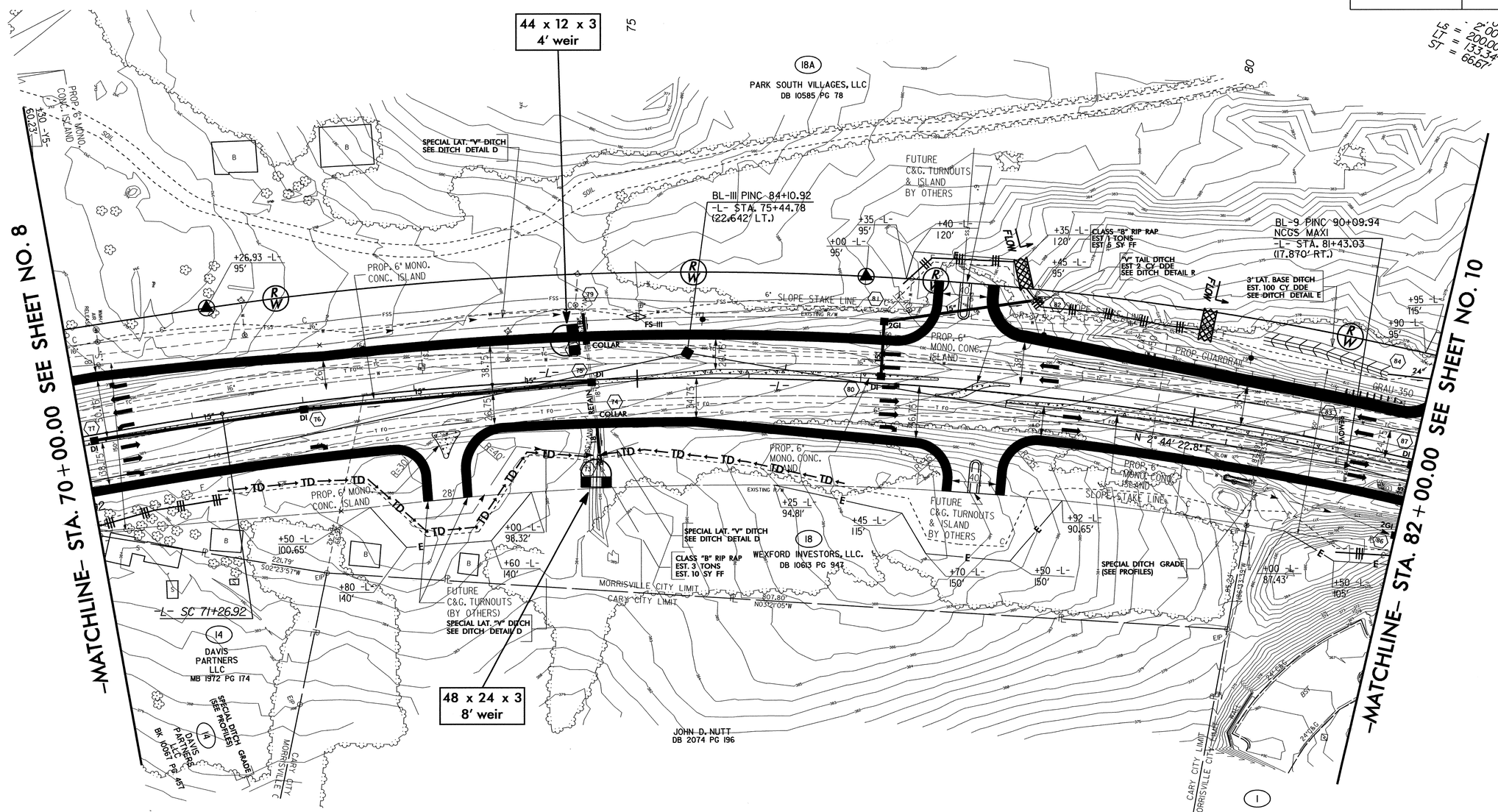
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

TOWN OF CARY TO HANDLE CLAIMS ON PARCEL NO. 14 & 18 THIS SHEET

-L-

PIs Sta 70+60.27	PI Sta 80+83.70	PIs Sta 90+40.41
Θs = 2° 00' 00.0"	Δ = 36° 56' 10.4" (RT)	Θs = 2° 00' 00.0"
Ls = 200.00'	D = 2° 00' 00.0"	Ls = 200.00'
LT = 133.34'	L = 1,846.81'	LT = 133.34'
ST = 66.67'	T = 956.77'	ST = 66.67'
	R = 2,864.79'	
	SE = 0.04 FT/FT	
	RUNOFF = 200.0 FT	

NAD 83 | NC GRID



LEGEND
PAVED SHOULDER

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 40

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-10/CONST.10
U-4026A R/W SHEET NO.	10
U-4026B R/W SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

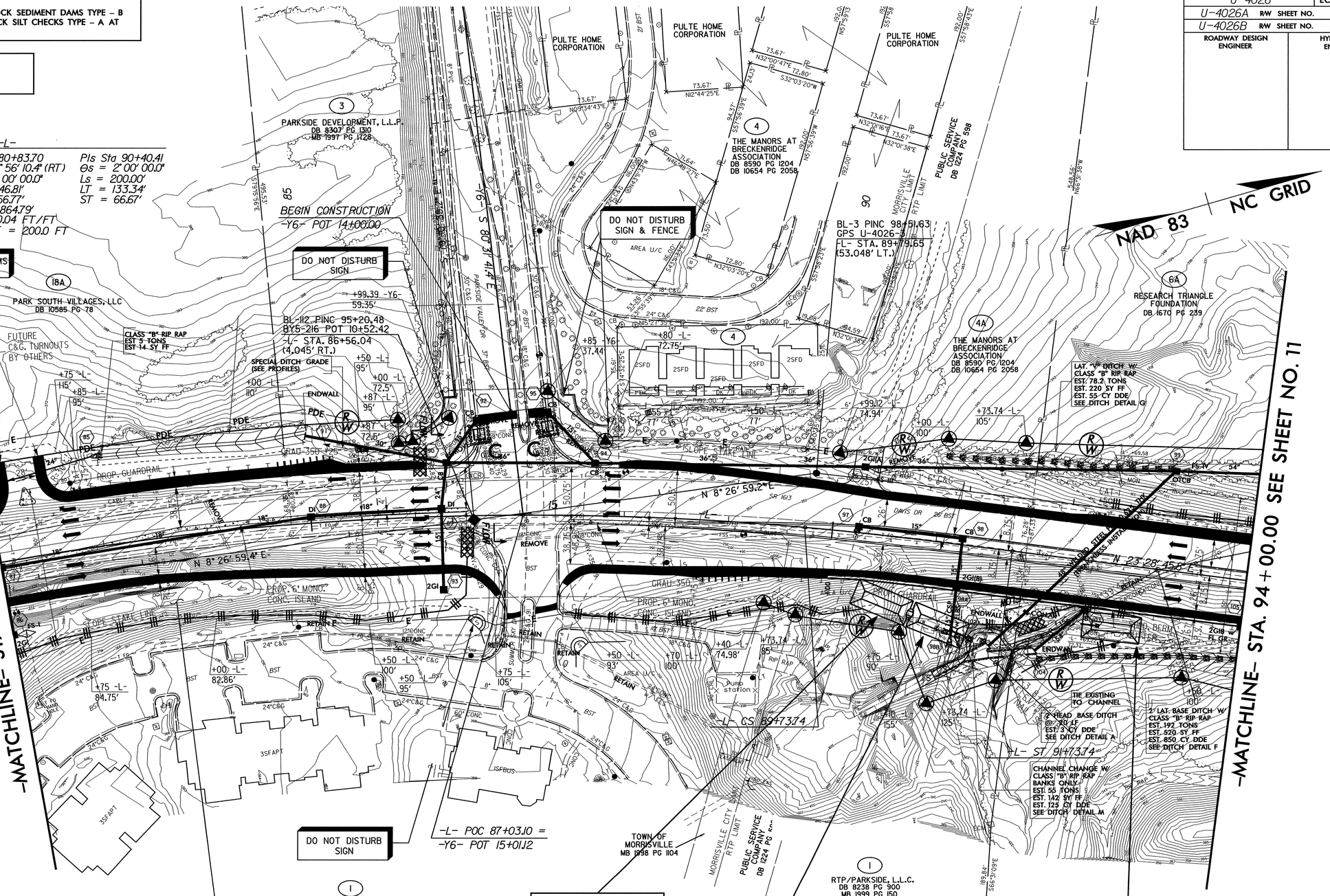
-L-

PIs Sta 70+60.27
Θs = 2° 00' 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

PI Sta 80+83.70
Δ = 36° 56' 10.4" (RT)
D = 2° 00' 00.0"
L = 1,846.81'
T = 956.77'
R = 2,864.79'
SE = 0.04 FT/FT
RUNOFF = 200.0 FT

PIs Sta 90+40.41
Θs = 2° 00' 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

TOWN OF CARY TO HANDLE CLAIMS ON PARCEL NO. 18 THIS SHEET



LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-K
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 41
FOR -Y6- PROFILE, SEE SHEET 53

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-11/CONST.11
U-4026B R/W SHEET NO.	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

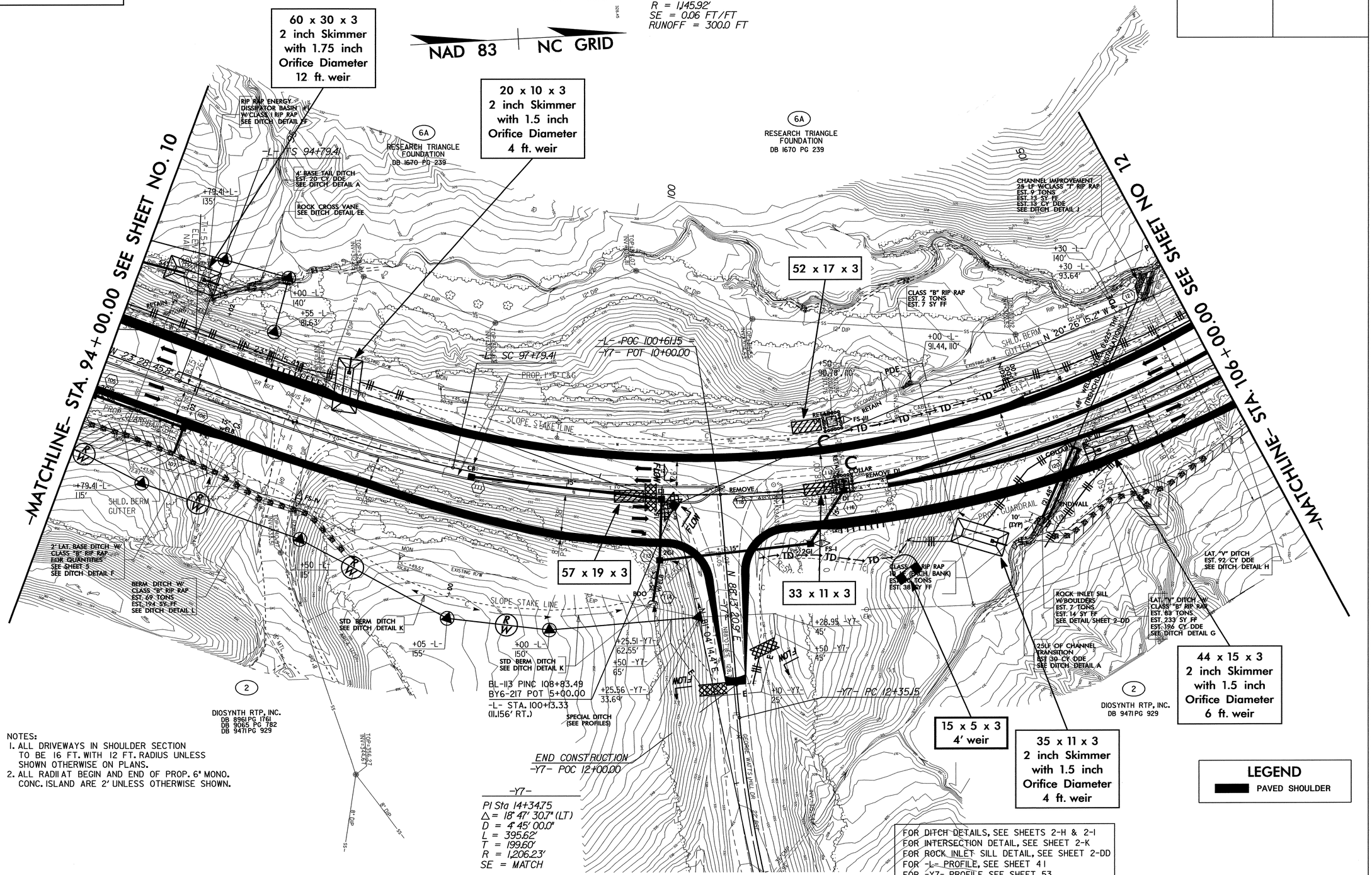
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

-L-
PIs Sta 96+79.59
Θs = 7° 30' 00.0"
Ls = 300.00'
LT = 200.18'
ST = 100.16'

PI Sta 103+87.90
Δ = 55° 56' 12.8" (LT)
D = 5° 00' 00.0"
L = 1,118.74'
T = 608.48'
R = 1,145.92'
SE = 0.06 FT/FT
RUNOFF = 300.0 FT

NAD 83 | NC GRID



NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-K
FOR ROCK INLET SILL DETAIL, SEE SHEET 2-DD
FOR -L- PROFILE, SEE SHEET 4 I
FOR -Y7- PROFILE, SEE SHEET 53

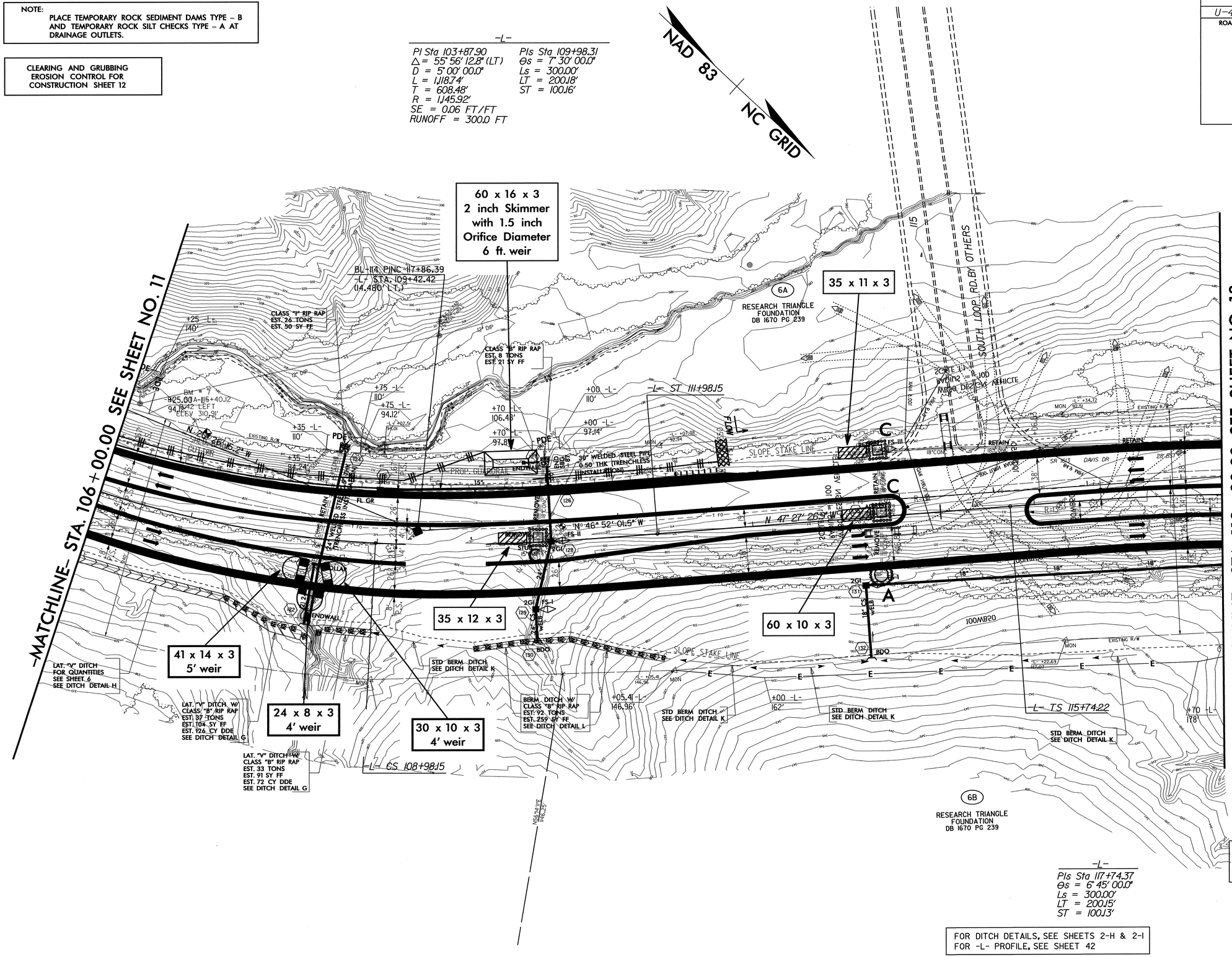
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-12/CONST.12
U-4026B R/W SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

-L-
PI Sta 103+87.90
Δ = 55° 56' 12.8" (LT)
D = 5° 00' 00.0"
L = 1,118.74'
T = 608.48'
R = 1,145.92'
SE = 0.06 FT/FT
RUNOFF = 300.0 FT

PIs Sta 109+98.31
Θs = 7° 30' 00.0"
Ls = 300.00'
LT = 200.18'
ST = 100.16'



-L-
PIs Sta 117+74.37
Θs = 6° 45' 00.0"
Ls = 300.00'
LT = 200.15'
ST = 100.13'

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 42

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-13/CONST.13
U-4026B R/W SHEET NO. 8	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

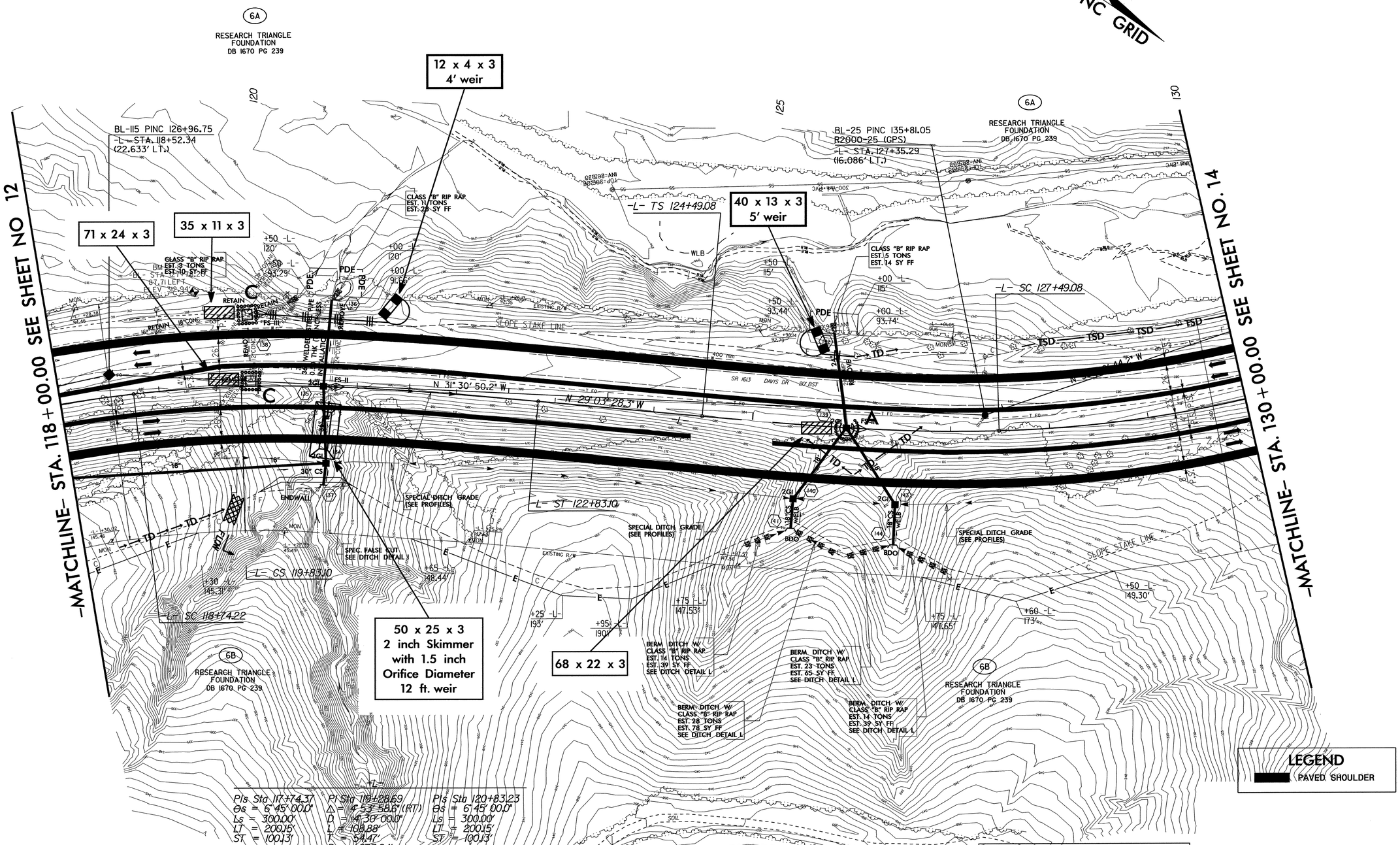
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

-L-

PIs Sta 126+49.22	PI Sta 128+78.04
Θs = 6° 45' 00.0"	Δ = 11° 34' 03.7" (LT)
Ls = 300.00'	D = 4° 30' 00.0"
LT = 200.15'	L = 257.06'
ST = 100.13'	T = 128.97'
	R = 1,273.24'
	SE = 0.08 FT/FT
	RUNOFF = 300.0 FT

NAD 83 / NC GRID



-L-

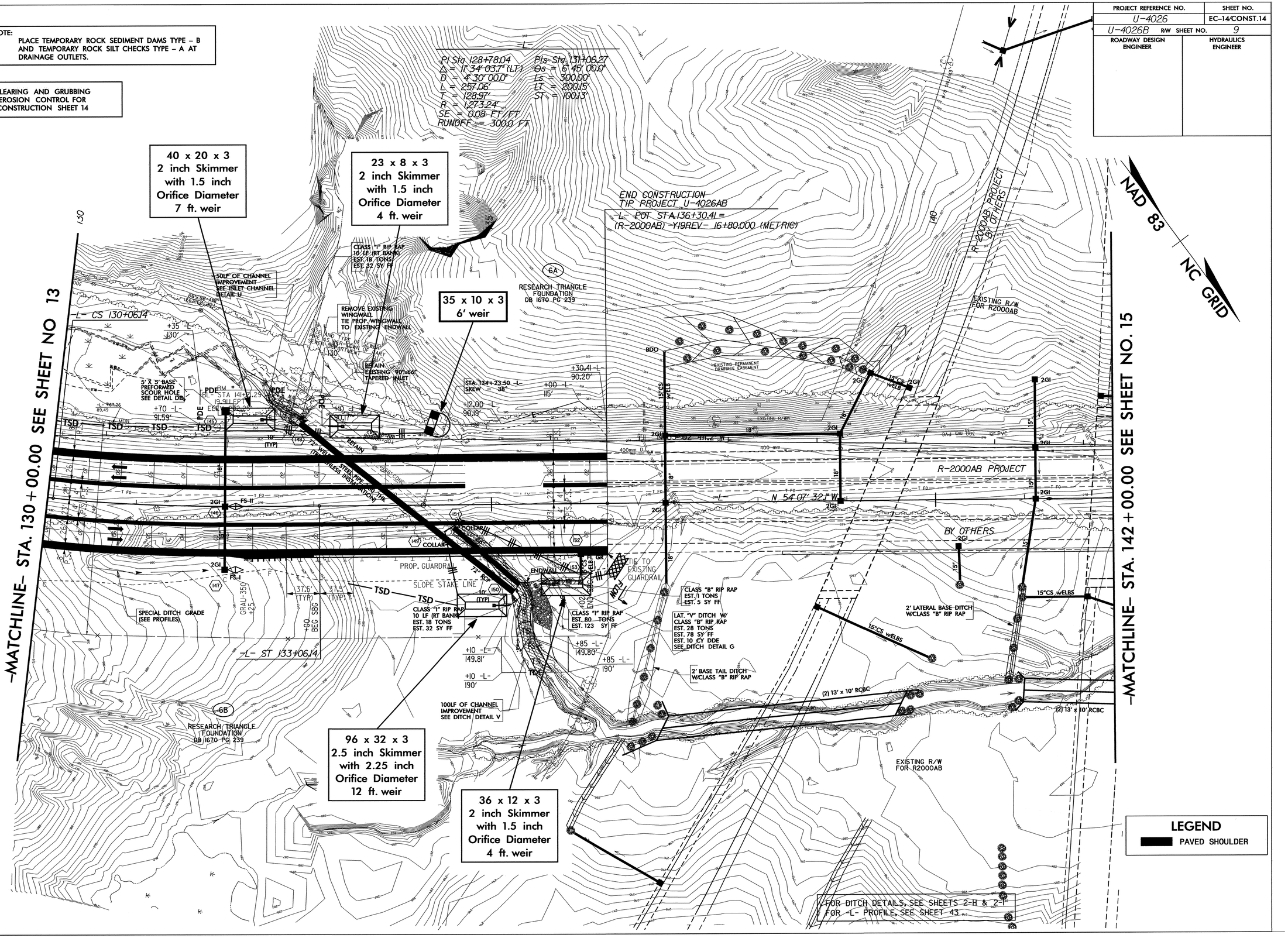
PIs Sta 117+74.37	PI Sta 119+28.69	PIs Sta 120+83.23
Θs = 6° 45' 00.0"	Δ = 4° 53' 58.8" (RT)	Θs = 6° 45' 00.0"
Ls = 300.00'	D = 4° 30' 00.0"	Ls = 300.00'
LT = 200.15'	L = 108.88'	LT = 200.15'
ST = 100.13'	T = 54.47'	ST = 100.13'
	R = 1,273.24'	
	SE = 0.08 FT/FT	

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 42

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-14/CONST.14
U-4026B R/W SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

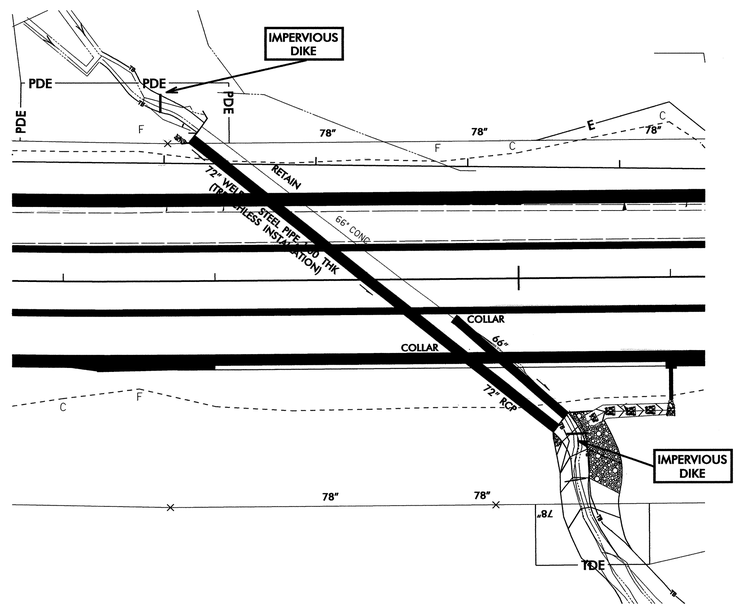
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

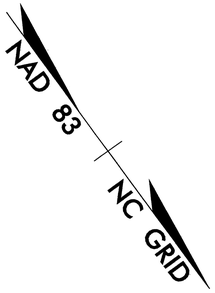


PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-15/CONST J4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 134+00 -L-

1.) Maintain flow through existing 66" pipe and channel while proposed 72" spiral welded steel pipe is installed using trenchless construction.
2.) Install Special Stilling Basin.
3.) Extend steel pipe with 72" RCP.
4.) Construct half of headwall and endwall.
5.) Partially excavate the inlet and outlet channels.
6.) Install Impervious dikes and divert flow through 72" structure.
7.) Extend 66" pipe and complete headwall and endwall.
8.) Complete channel improvements and finish roadway construction.

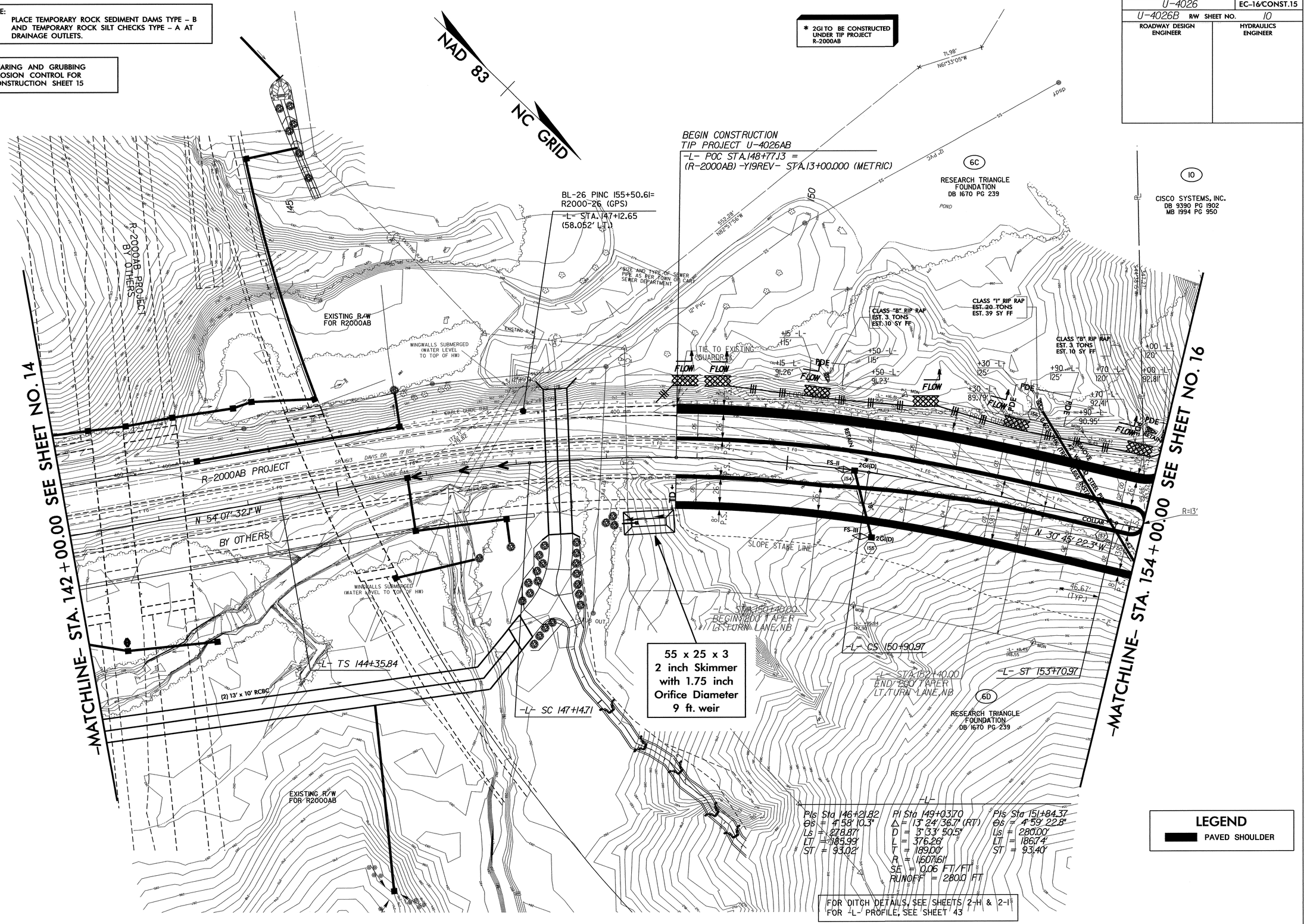




PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-16/CONST.15
U-4026B R/W SHEET NO. 10	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15



PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-17/CONST.16
U-4026B R/W SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

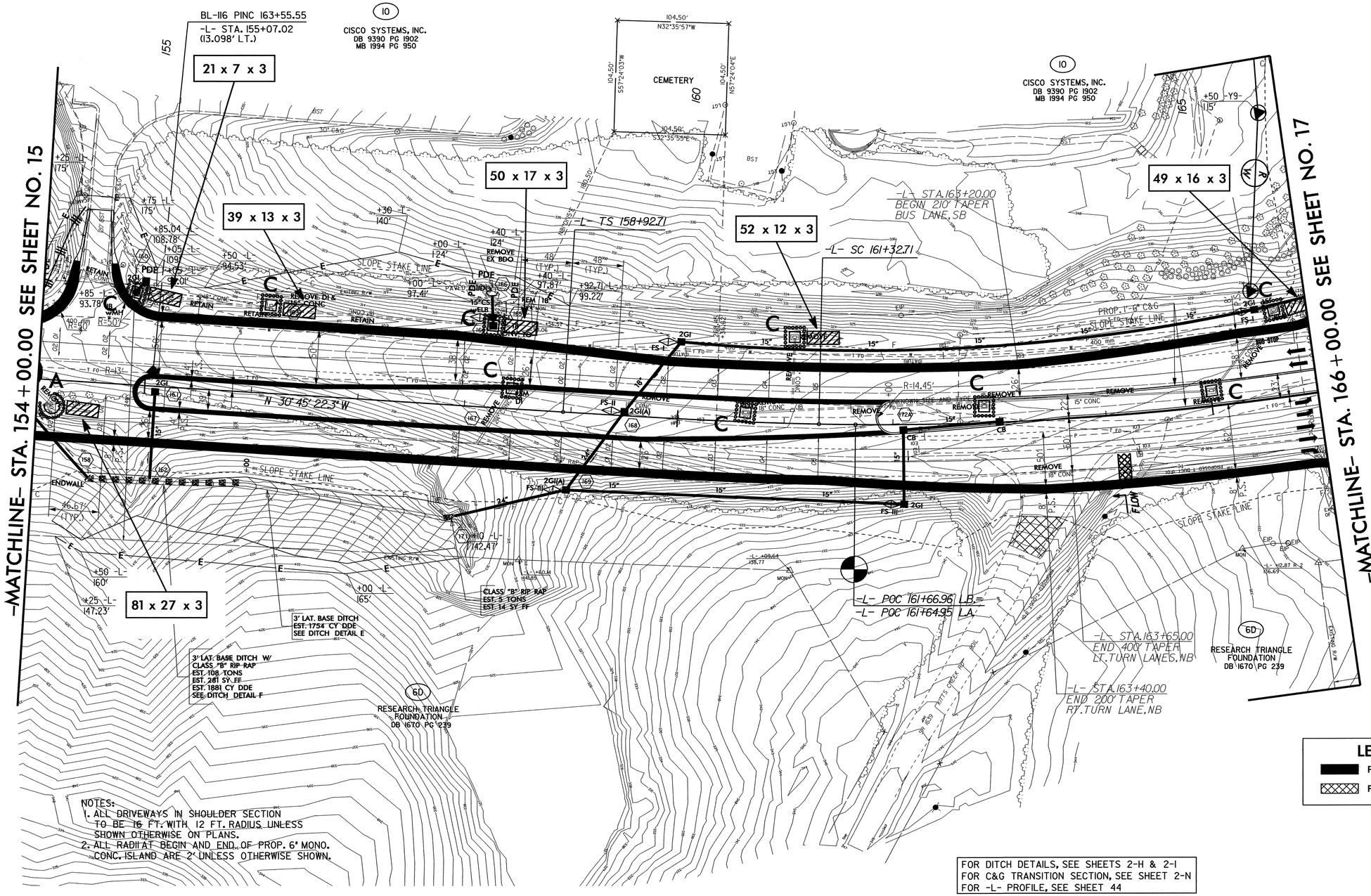
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

NAD 83 / NC GRID

-L-

PIs Sta 160+52.73	PI Sta 161+49.84	PI Sta 165+33.95
Θs = 2° 24' 00.0"	Δ = 0° 41' 05.9" (LT)	Δ = 14° 40' 45.7" (LT)
Ls = 240.00'	D = 2° 00' 00.0"	D = 2° 00' 00.0"
LT = 160.01'	L = 34.25'	L = 733.97'
ST = 80.01'	T = 17.12'	T = 369.00'
	R = 2,864.79'	R = 2,864.79'

SE = 0.05 FT/FT
RUNOFF = 240.0 FT



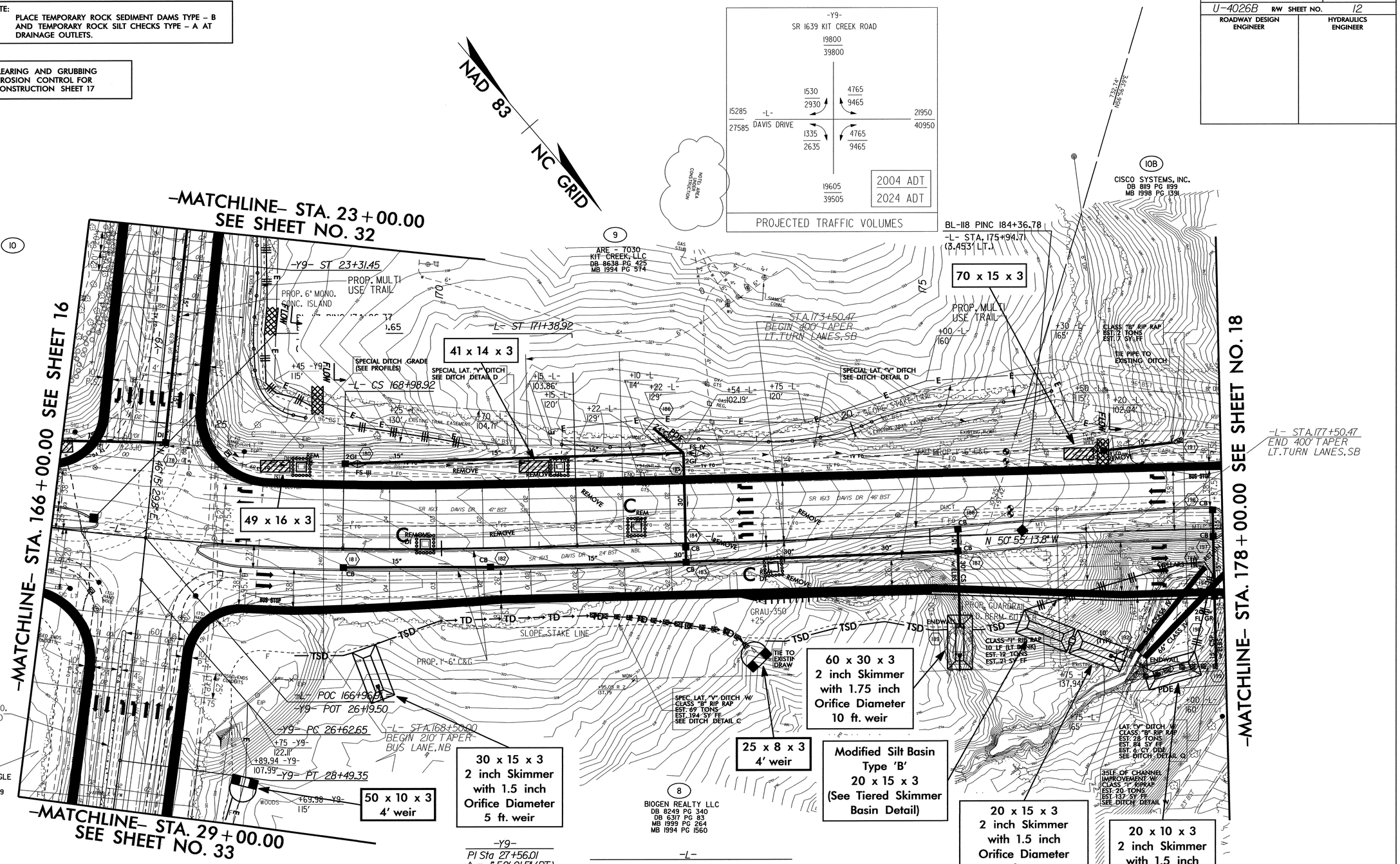
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 44

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-18/CONST.17
U-4026B R/W SHEET NO. 12	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17



-Y9-
PI Sta 27+56.01
△ = 1° 52' 01.5" (RT)
D = 1° 00' 00.0"
L = 186.71'
T = 93.36'
R = 5,729.58'
SE = 0.02 FT/FT

-L-
PI Sta 165+33.95
△ = 14° 40' 45.6" (LT)
D = 2° 00' 00.0"
L = 733.97'
T = 369.00'
R = 2,864.79'
SE = 0.05 FT/FT
RUNOFF = 240.0 FT

PIs Sta 169+78.93
Θs = 2° 24' 00.0"
Ls = 240.00'
LT = 160.01'
ST = 80.01'

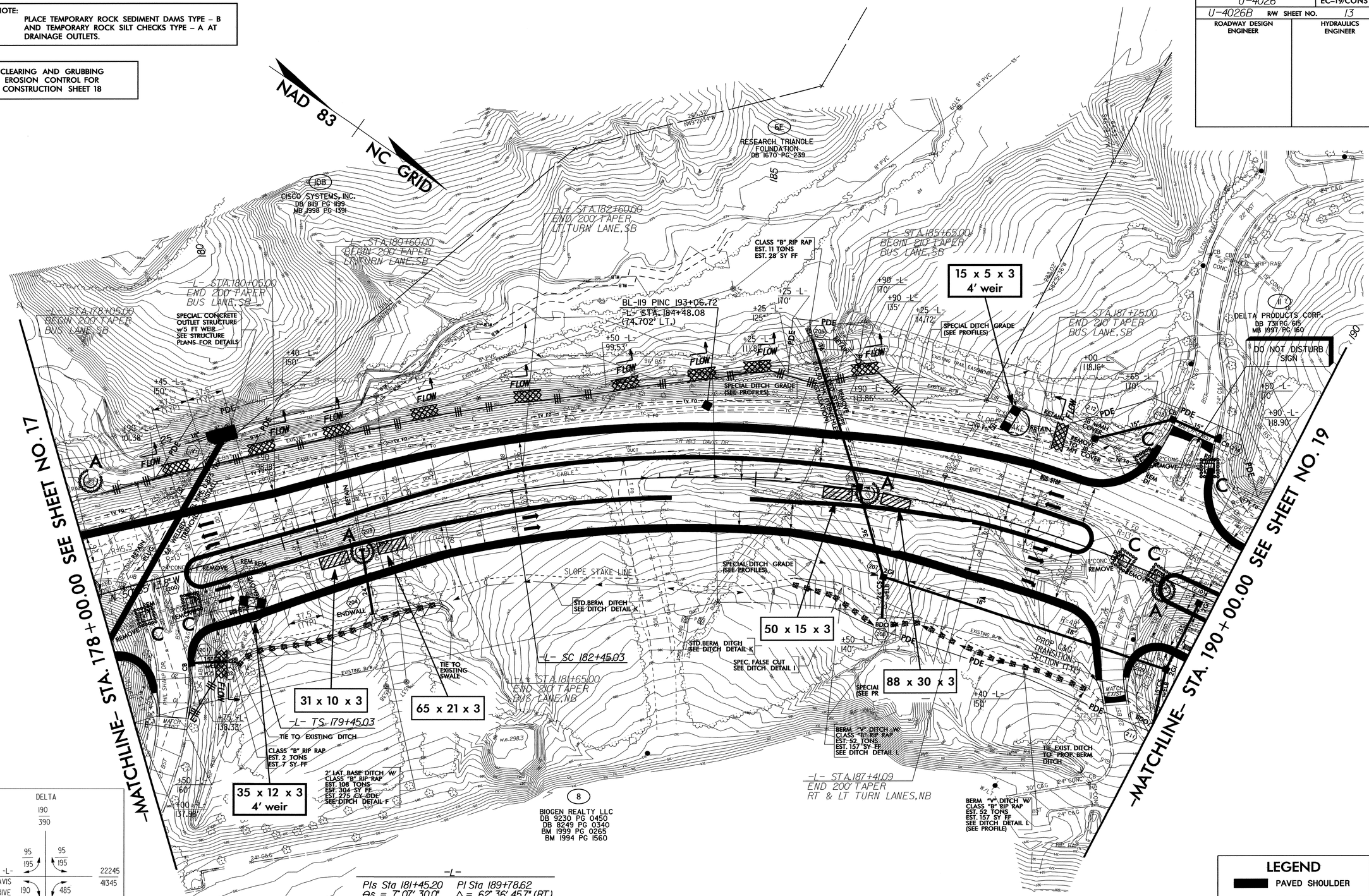
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H& 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-K
FOR TRAIL PLANS, SEE SHEETS 2-O THRU 2-P
FOR ROCK INLET SILL DETAIL, SEE SHEET 2-DD
FOR -L- PROFILE, SEE SHEET 44
FOR -Y9- PROFILE, SEE SHEET 54

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-19/CONST.18
U-4026B R/W SHEET NO. 13	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18



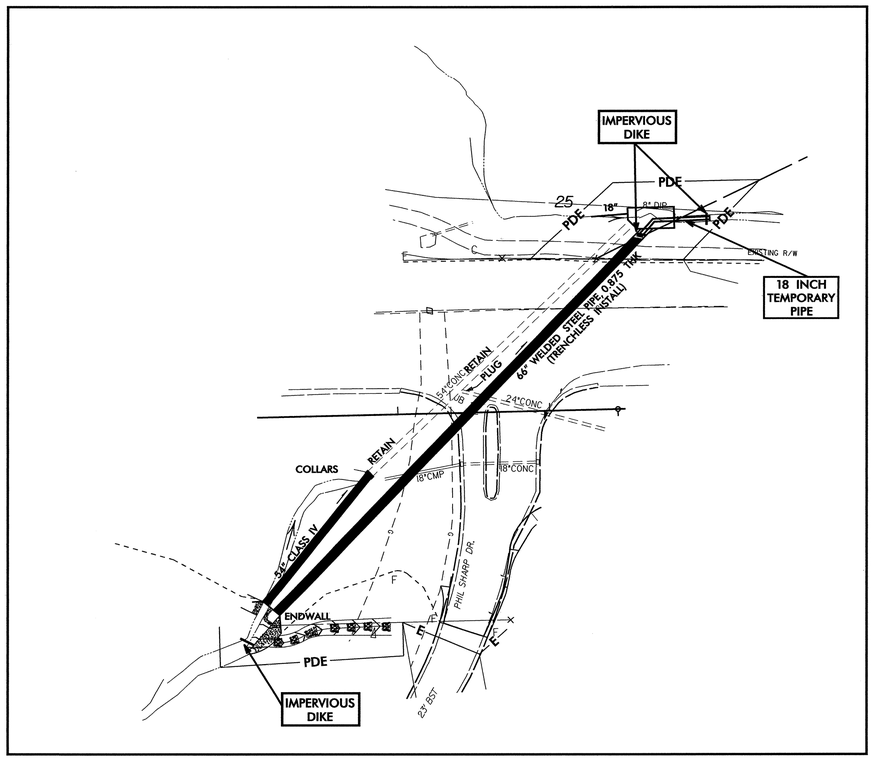
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

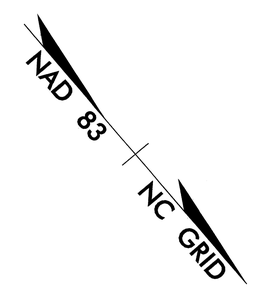
FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 45

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-20/CONST J8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 178+50 -L-

1.) Maintain flow through existing 54" pipe and channel while proposed 66" spiral welded steel pipe is installed using trenchless construction.
2.) Install Special Stilling Basin.
3.) Extend steel pipe with 66" RCP.
4.) Construct half of headwall .
5.) Partially excavate the inlet and outlet channels.
6.) Install Impervious dikes and 18" temporary pipe.
7.) Divert flow into 66" structure.
8.) Extend 54" pipe and complete headwall and outlet structure.
9.) Complete channel improvements and finish roadway construction.

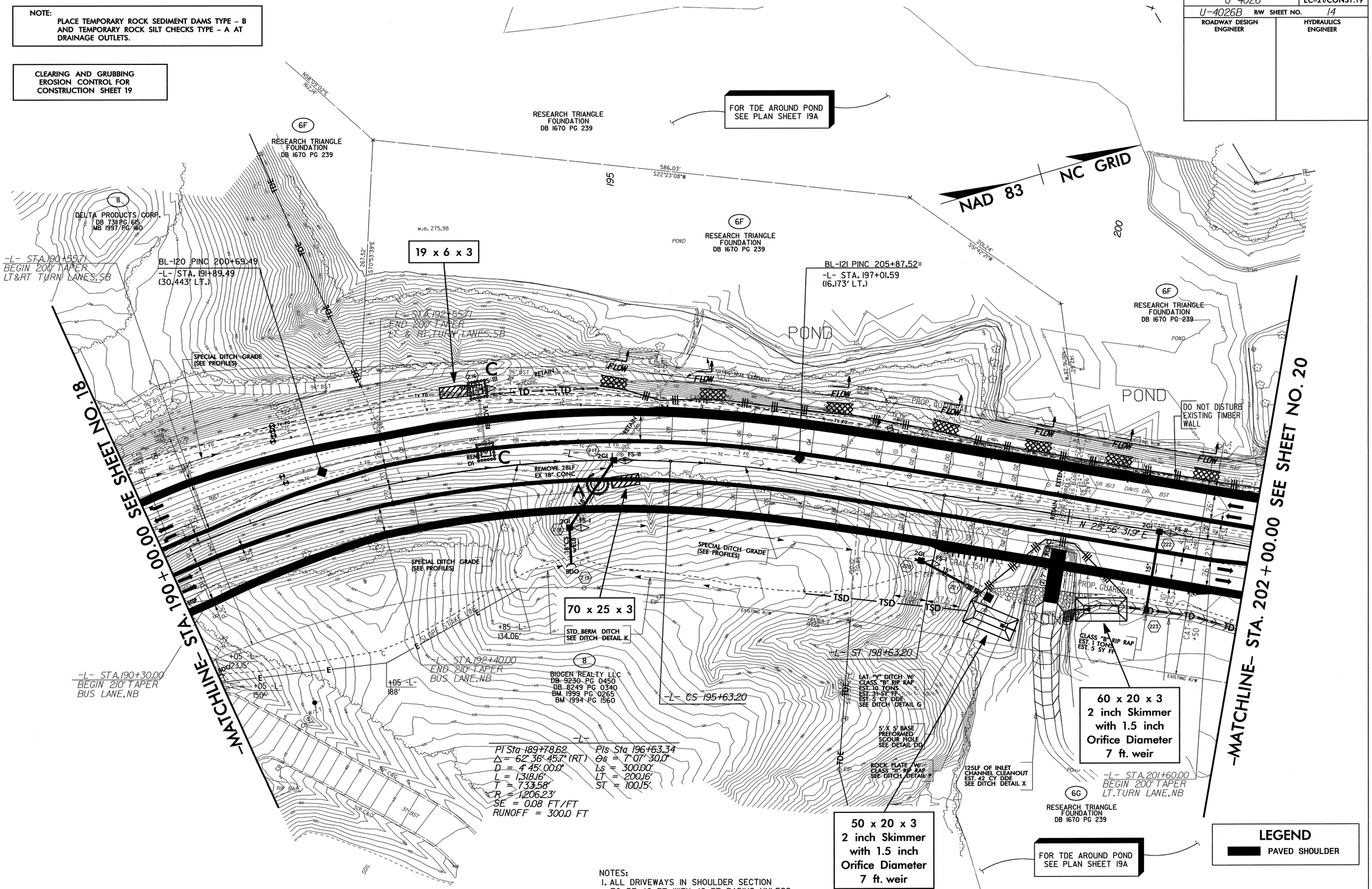




PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-21/CONST.19
U-4026B R/W SHEET NO. 14	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 19



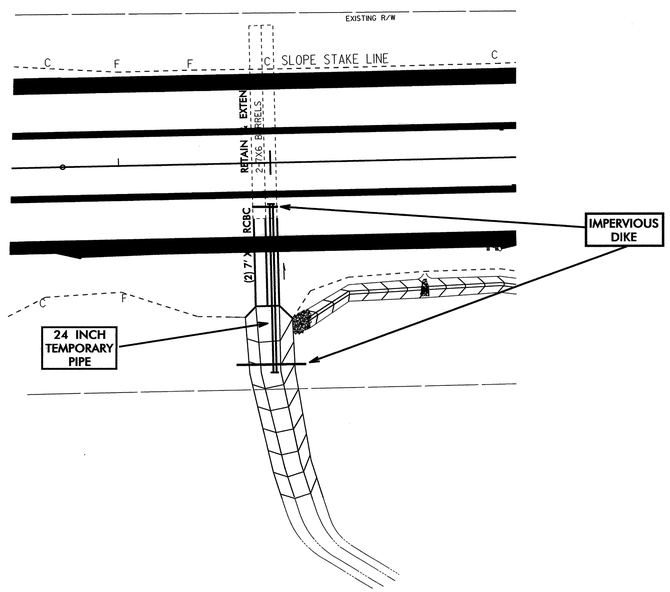
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6' MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 45
FOR CULVERT PLANS, SEE CULVERT SHEETS C- __ - C-__

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-22/CONST19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 200+00 –L–

1.) Utilize Special Stilling Basin to pump effluent.
2.) Install Impervious Dikes and 24" temporay pipe.
3.) Construct Culvert Extension.
4.) Complete channel improvements.
5.) Complete roadway.

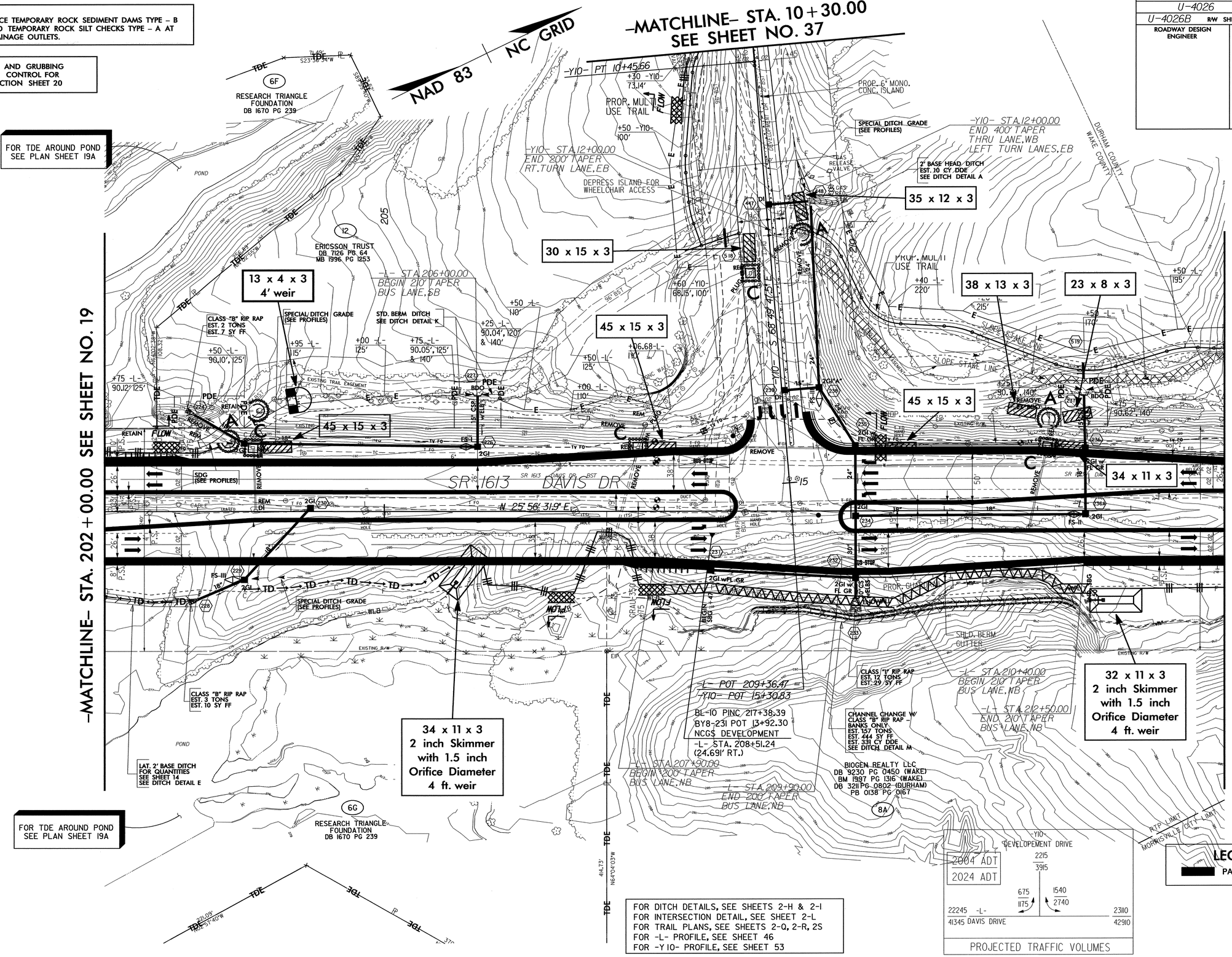


NAD 83 | NC GRID

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-23/CONST.20
U-4026B R/W SHEET NO. 15	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20

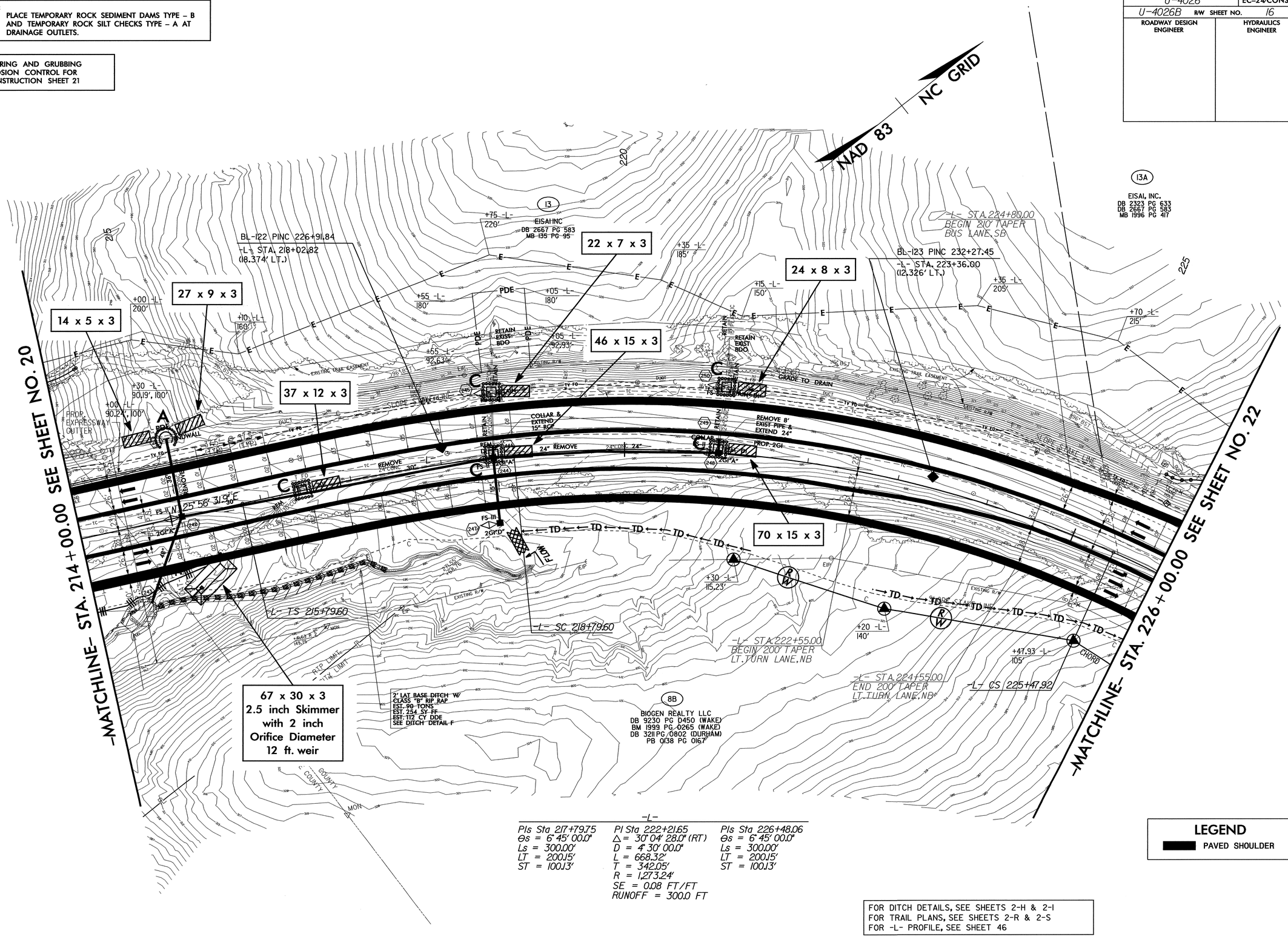


FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR TRAIL PLANS, SEE SHEETS 2-Q, 2-R, 2S
FOR -L- PROFILE, SEE SHEET 46
FOR -Y10- PROFILE, SEE SHEET 53

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-24/CONST.21
U-4026B R/W SHEET NO. 16	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 21



-L-

PIs Sta 217+79.75	PI Sta 222+21.65	PIs Sta 226+48.06
Θs = 6° 45' 00.0"	Δ = 30° 04' 28.0" (RT)	Θs = 6° 45' 00.0"
Ls = 300.00'	D = 4° 30' 00.0"	Ls = 300.00'
LT = 200.15'	L = 668.32'	LT = 200.15'
ST = 100.13'	T = 342.05'	ST = 100.13'
	R = 1,273.24'	
	SE = 0.08 FT/FT	
	RUNOFF = 300.0 FT	

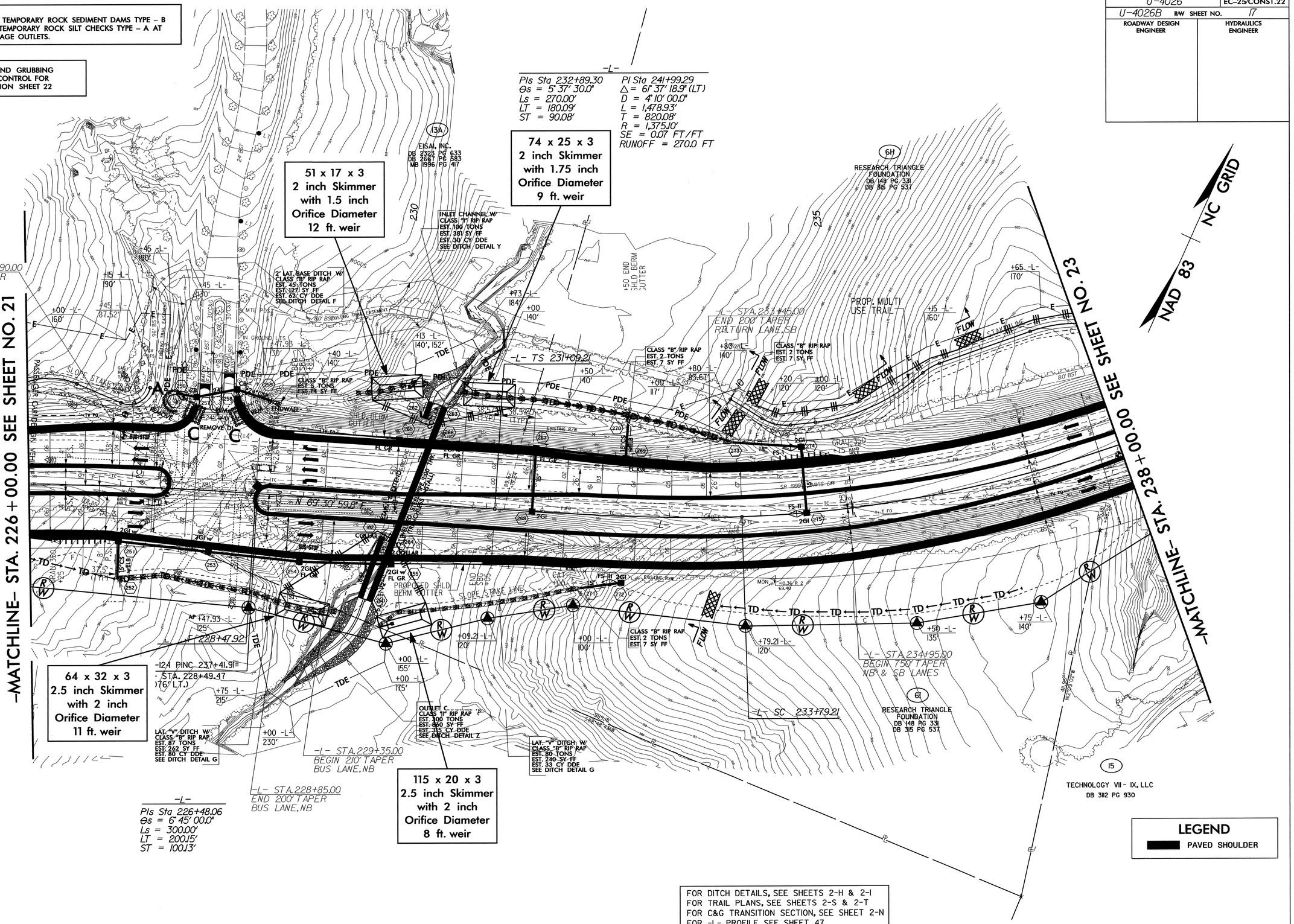
LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEETS 2-R & 2-S
FOR -L- PROFILE, SEE SHEET 46

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-25/CONST.22
U-4026B R/W SHEET NO. 17	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 22

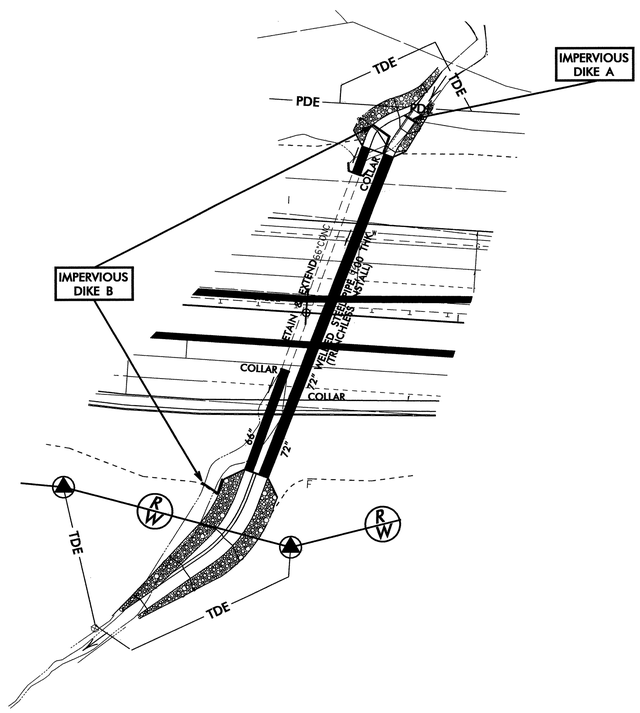


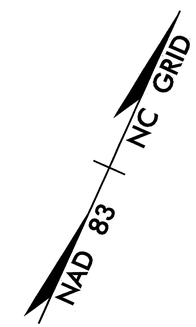
FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEETS 2-S & 2-T
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 47

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-26/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 230+00 -L-

1.) Install Special Stilling Basin.
2.) Partially excavate inlet channel to ensure flow through existing 66" pipe.
3.) Install Impervious Dike "A".
4.) Install 72" Spiral Welded steel pipe with trenchless construction.
5.) Complete 72" structure with installation of 72" RCP.
6.) Construct half of the headwall and endwall.
7.) Partially excavate outlet channel and complete inlet channel excavation.
8.) Install Impervious Dike B and divert flow into 72" pipe.
9.) Extend existing 66" pipe at inlet and outlet.
10.) Complete headwall and endwall construction, remaining channel improvements and finish roadway.

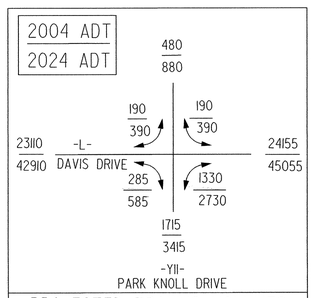




PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-27/CONST.23
U-4026B R/W SHEET NO. 18	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

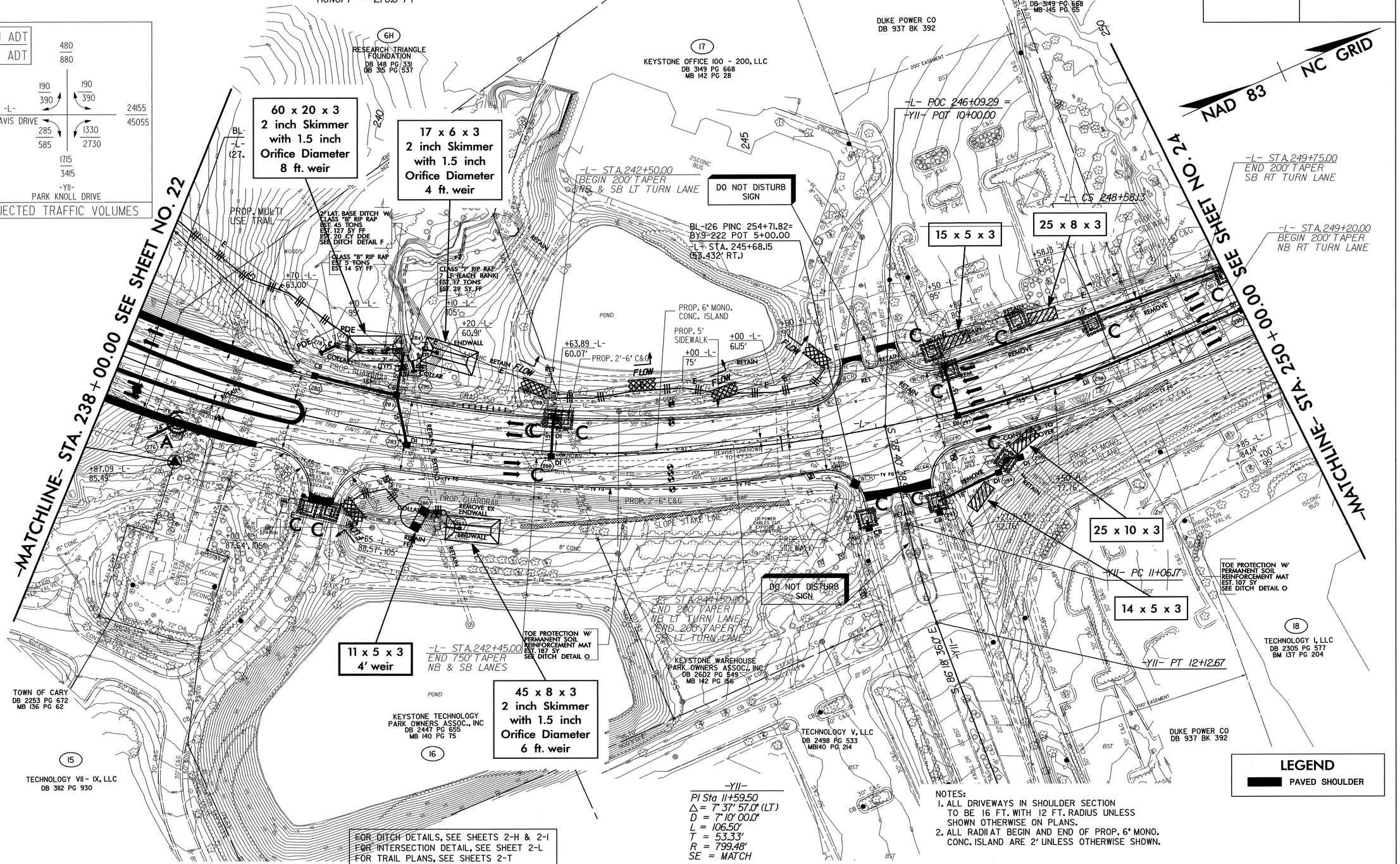
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23



PROJECTED TRAFFIC VOLUMES

-L-
PI Sta 241+99.29
Δ = 61° 37' 18.9" (LT)
D = 4° 10' 00.0"
L = 1,478.93'
T = 820.08'
R = 1,375.10'
SE = 0.07 FT/FT
RUNOFF = 270.0 FT

PIs Sta 249+48.21
Θs = 5° 37' 30.0"
Ls = 270.00'
LT = 180.09'
ST = 90.08'



-Y11-
PI Sta 11+59.50
Δ = 7° 37' 57.0" (LT)
D = 7° 10' 00.0"
L = 106.50'
T = 53.33'
R = 799.48'
SE = MATCH

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

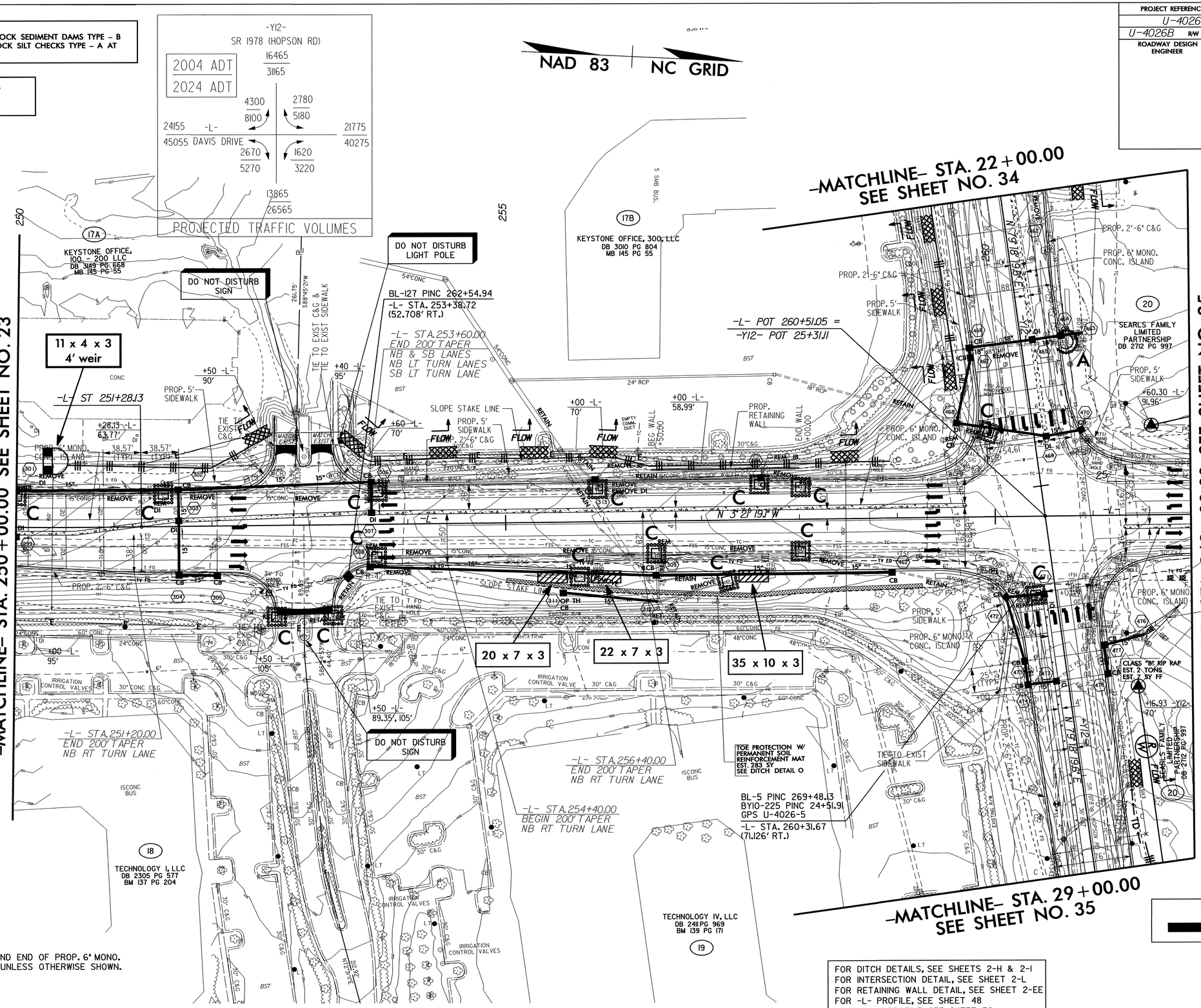
LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR TRAIL PLANS, SEE SHEETS 2-T
FOR -L- PROFILE, SEE SHEET 47

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-28/CONST.24
U-4026B R/W SHEET NO. 19	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 24



NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

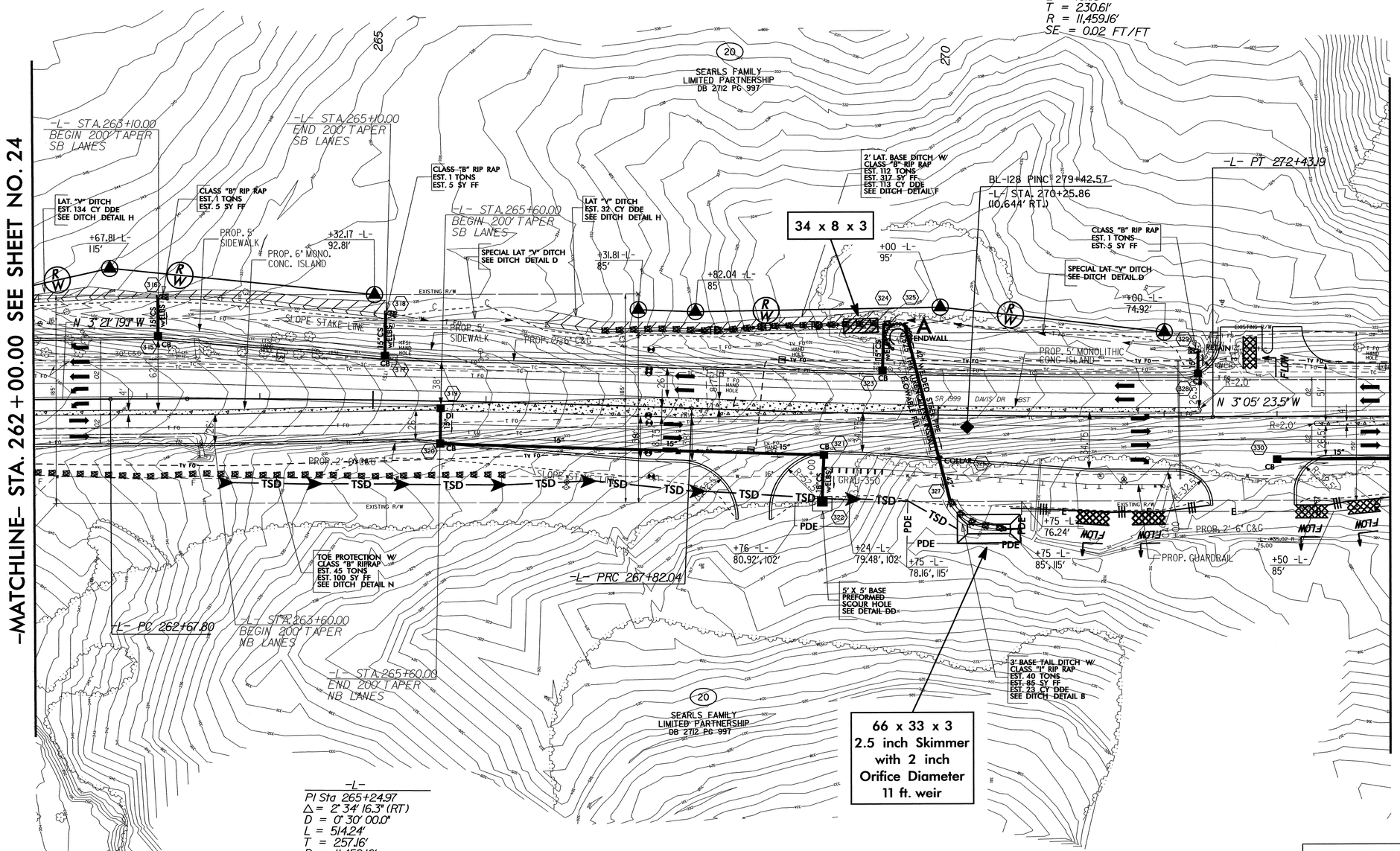
FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR RETAINING WALL DETAIL, SEE SHEET 2-EE
FOR -L- PROFILE, SEE SHEET 48
FOR -Y12- PROFILE, SEE SHEET 56

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-29/CONST.25
U-4026B R/W SHEET NO.	20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 25

NAD 83 | NC GRID



NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 48

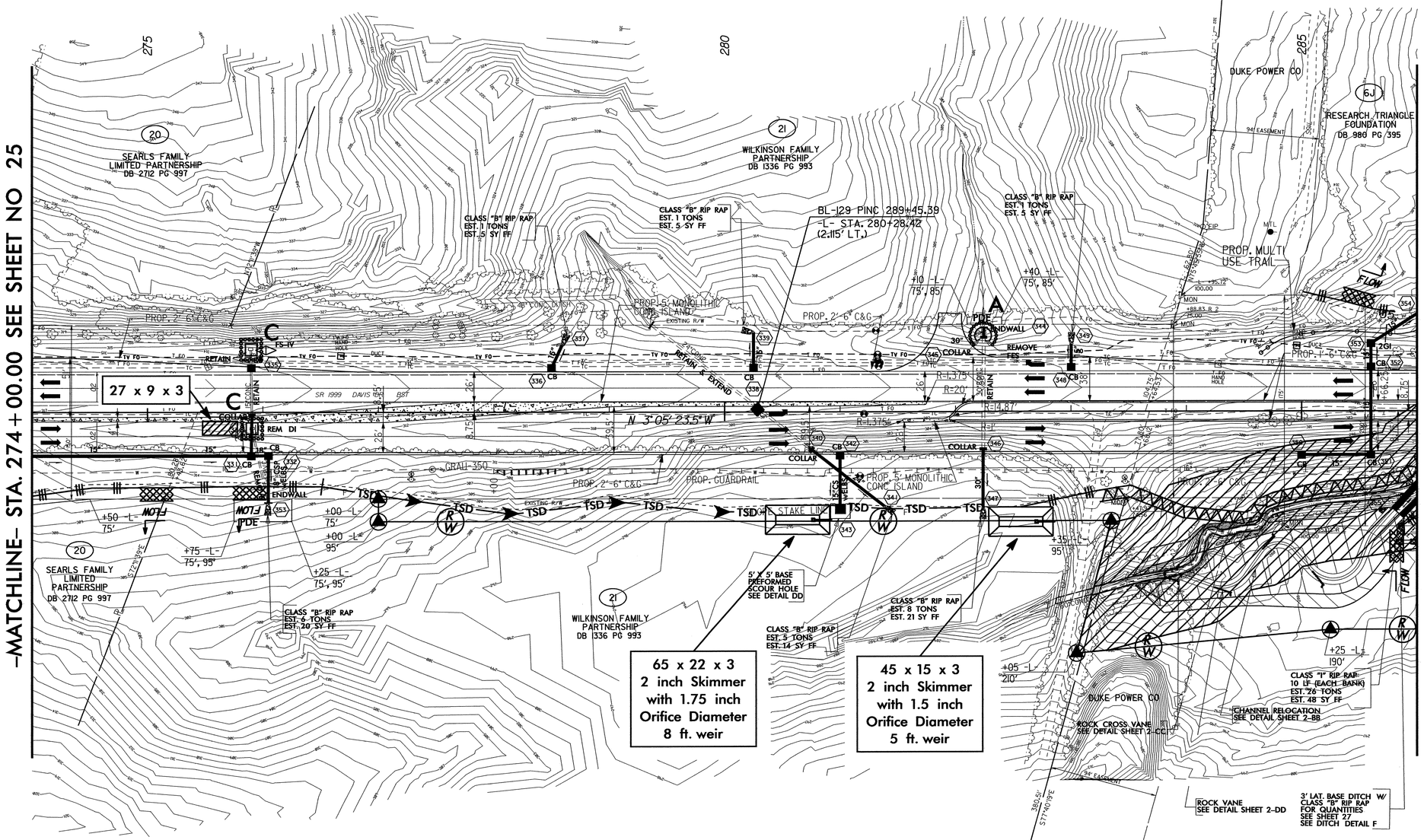
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-30/CONST.26
U-4026B R/W SHEET NO.	21
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 26

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NAD 83 | NC GRID



NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEET 2-U
FOR CHANNEL RELOCATION, SEE SHEET 2-BB
FOR ROCK CROSS VANE DETAIL, SEE SHEET 2-CC
FOR ROCK VANE DETAIL, SEE SHEET 2-DD
FOR -L- PROFILE, SEE SHEET 49

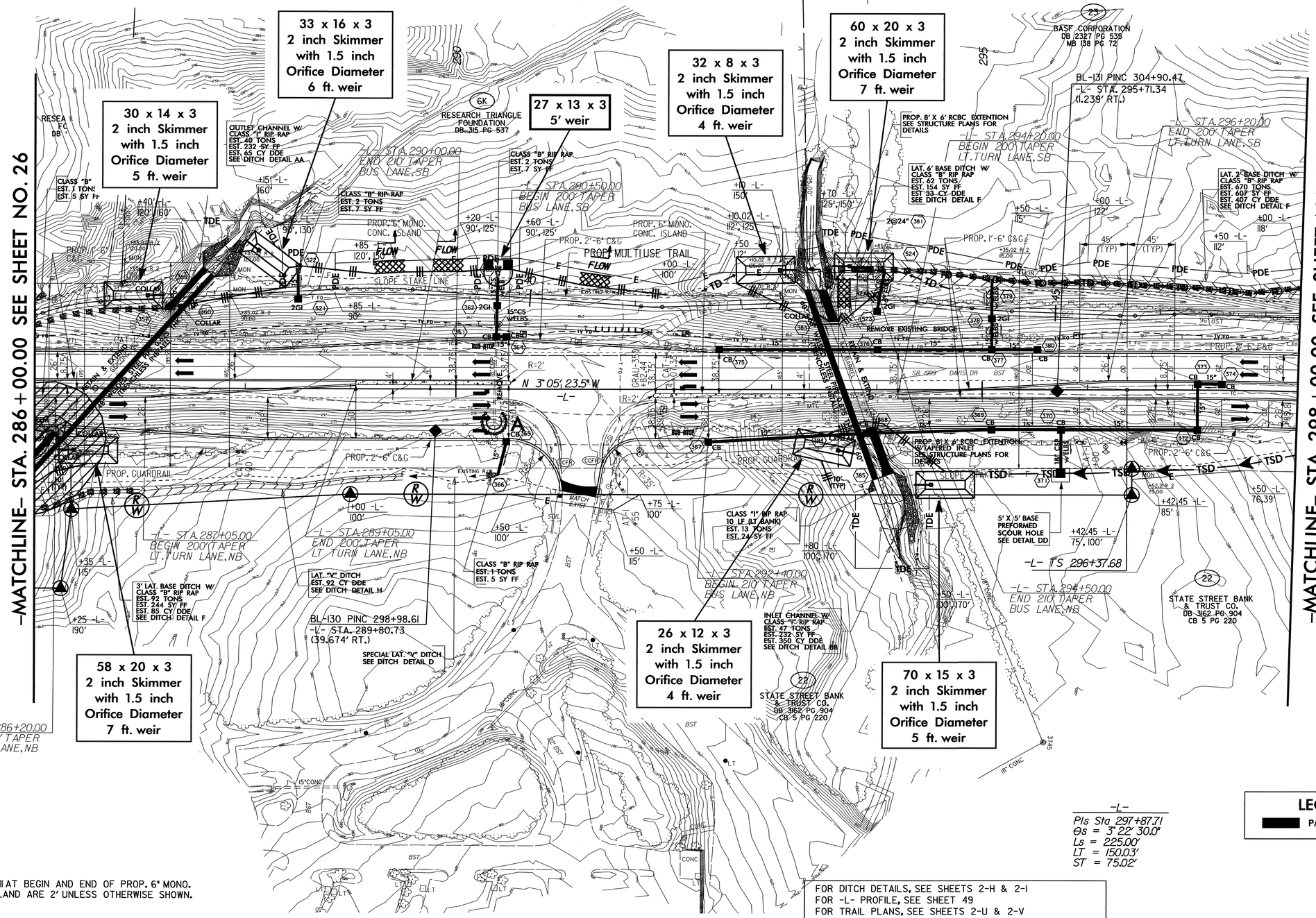
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-31/CONST.27
U-4026B R/W SHEET NO.	22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 27

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NAD 83 | NC GRID



-L-
Pls Sta 297+87.71
θs = 3° 22' 30.0"
Ls = 225.00'
LT = 150.03'
ST = 75.02'

LEGEND
PAVED SHOULDER

NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 49
FOR TRAIL PLANS, SEE SHEETS 2-U & 2-V
FOR CULVERT PLANS, SEE CULVERT SHEETS C- __ - C-__

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-32/CONST.27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

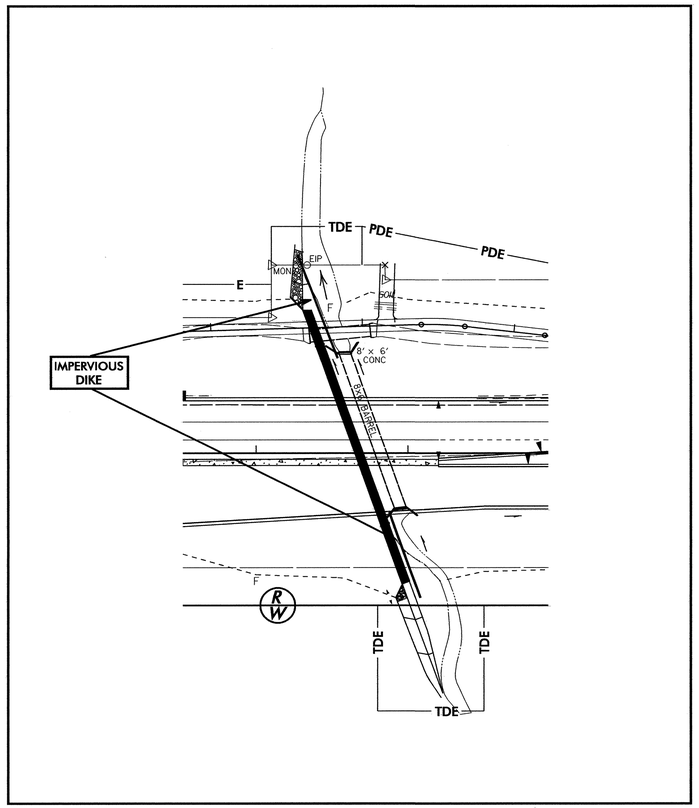
CULVERT CONSTRUCTION SEQUENCE STA. 294+00 -L-

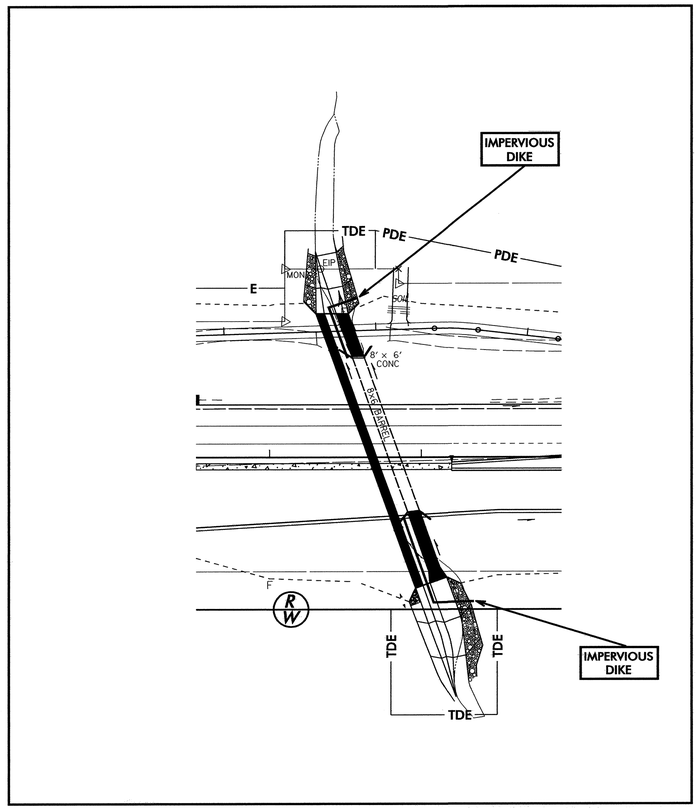
PHASE I

1.) Install Special Stilling Basin.
2.) Remove existing Greenway Bridge.
3.) Utilize channel adjustments and install impervious dikes to ensure flow remains in existing culvert.
4.) Install 60" spiral welded steel pipe using trenchless construction.
5.) Complete installation of 60" structure with construction of 60" RCP.
6.) Construct half of headwall and endwall.

PHASE II

1.) Partially excavate inlet and outlet channel.
2.) Shift Impervious Dikes to divert flow into 60" structure.
3.) Extend 8'x6' RCBC with tapered inlet.
4.) Extend outlet end of culvert.
5.) Complete headwall, endwall and finish channel improvements.
6.) Complete roadway.



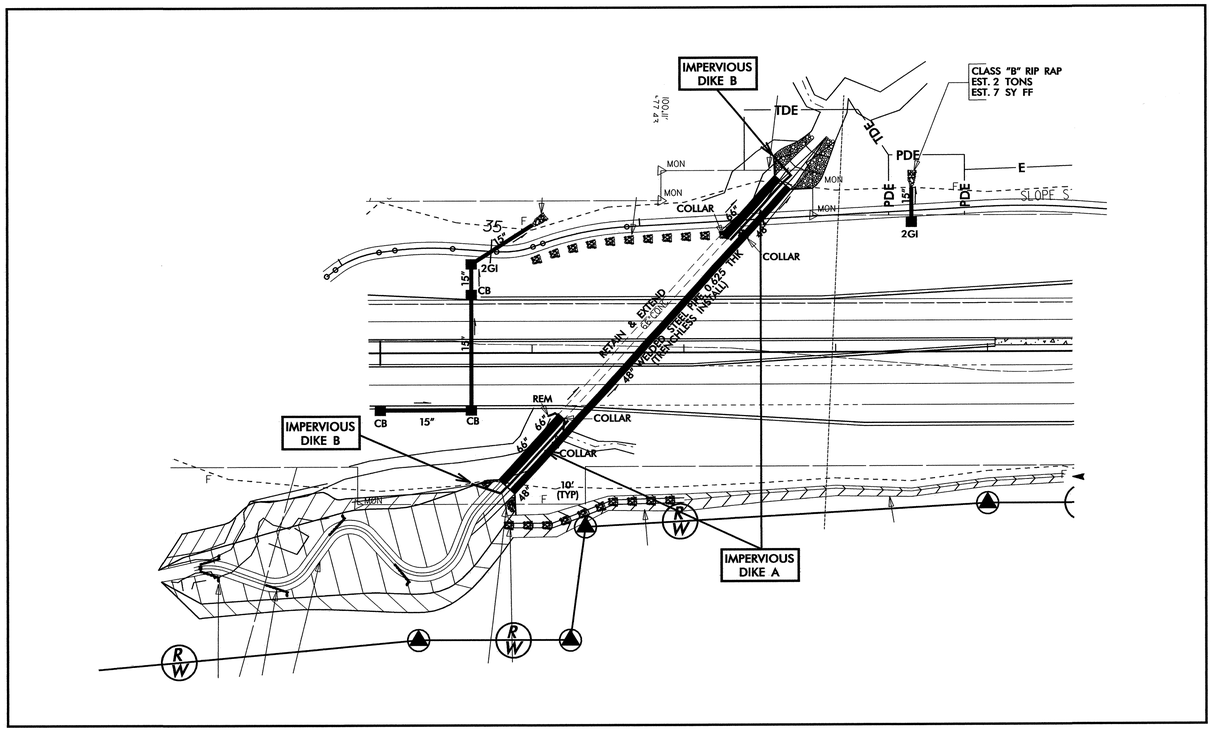


NAD 83 | NC GRID

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-33/CONST.27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 287+00 –L–

1.) Install Special Stilling Basin.
2.) Modify inlet channel to insure flow through existing 66" pipe and relocate existing lateral ditch.
3.) Install Impervious Dike A.
4.) Install 48" spiral welded steel pipe with trenchless construction and complete structure with installation of 48" RCP at inlet and outlet.
5.) Construct half of headwall and endwall.
6.) Partially excavate inlet and outlet channel and install Impervious Dike B.
7.) Divert flow through 48 " structure.
8.) Extend existing 66" pipe at inlet and outlet.
9.) Complete headwall and endwall construction and inlet and outlet channel improvements.
10.) Complete Roadway.

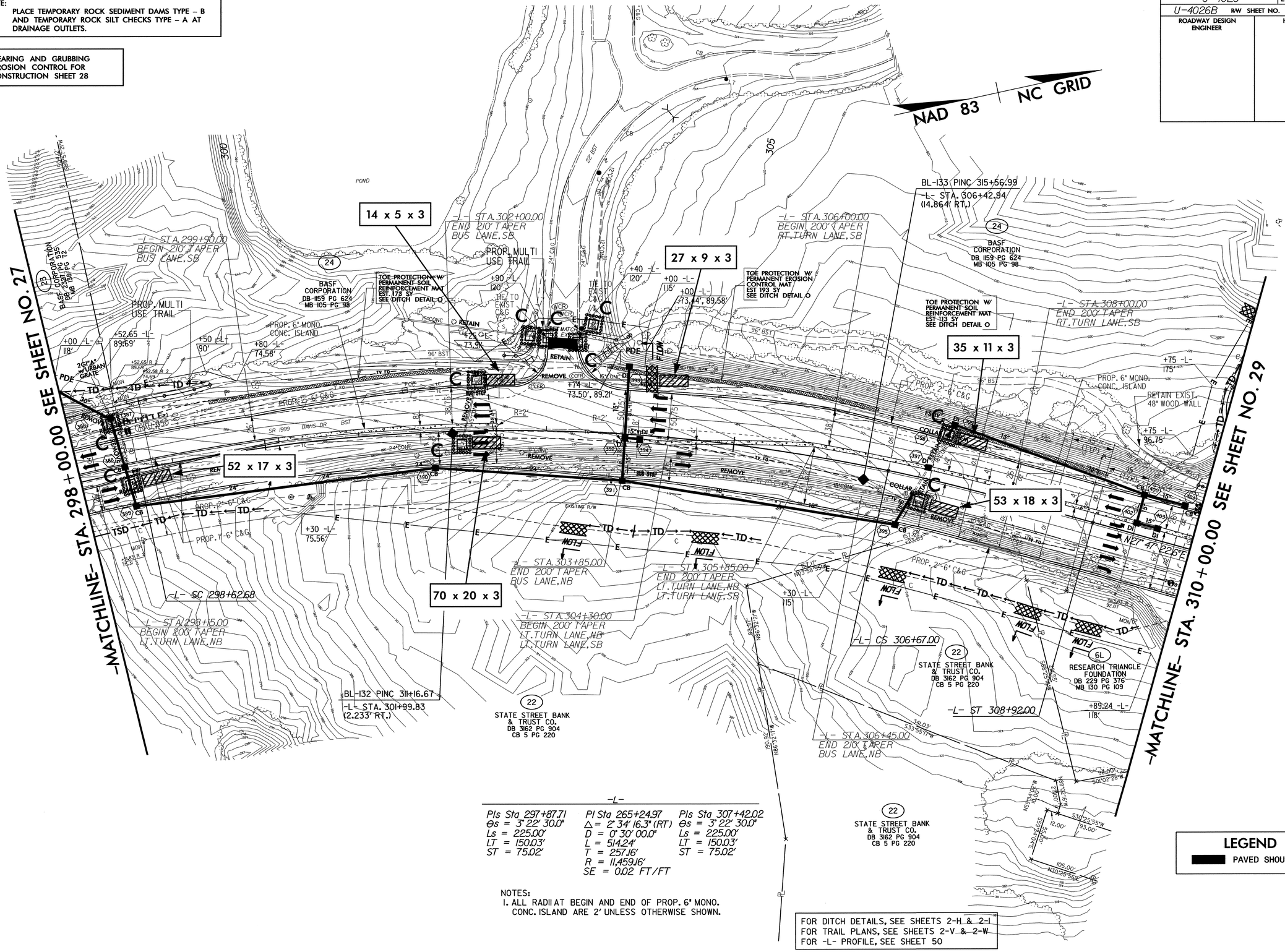


NAD 83 | NC GRID

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-34/CONST.28
U-4026B R/W SHEET NO.	23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 28



-L-

PIs Sta 297+87.71	PI Sta 265+24.97	PIs Sta 307+42.02
Θs = 3° 22' 30.0"	Δ = 2° 34' 16.3" (RT)	Θs = 3° 22' 30.0"
Ls = 225.00'	D = 0° 30' 00.0"	Ls = 225.00'
LT = 150.03'	L = 514.24'	LT = 150.03'
ST = 75.02'	T = 257.16'	ST = 75.02'
	R = 11,459.16'	
	SE = 0.02 FT/FT	

NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

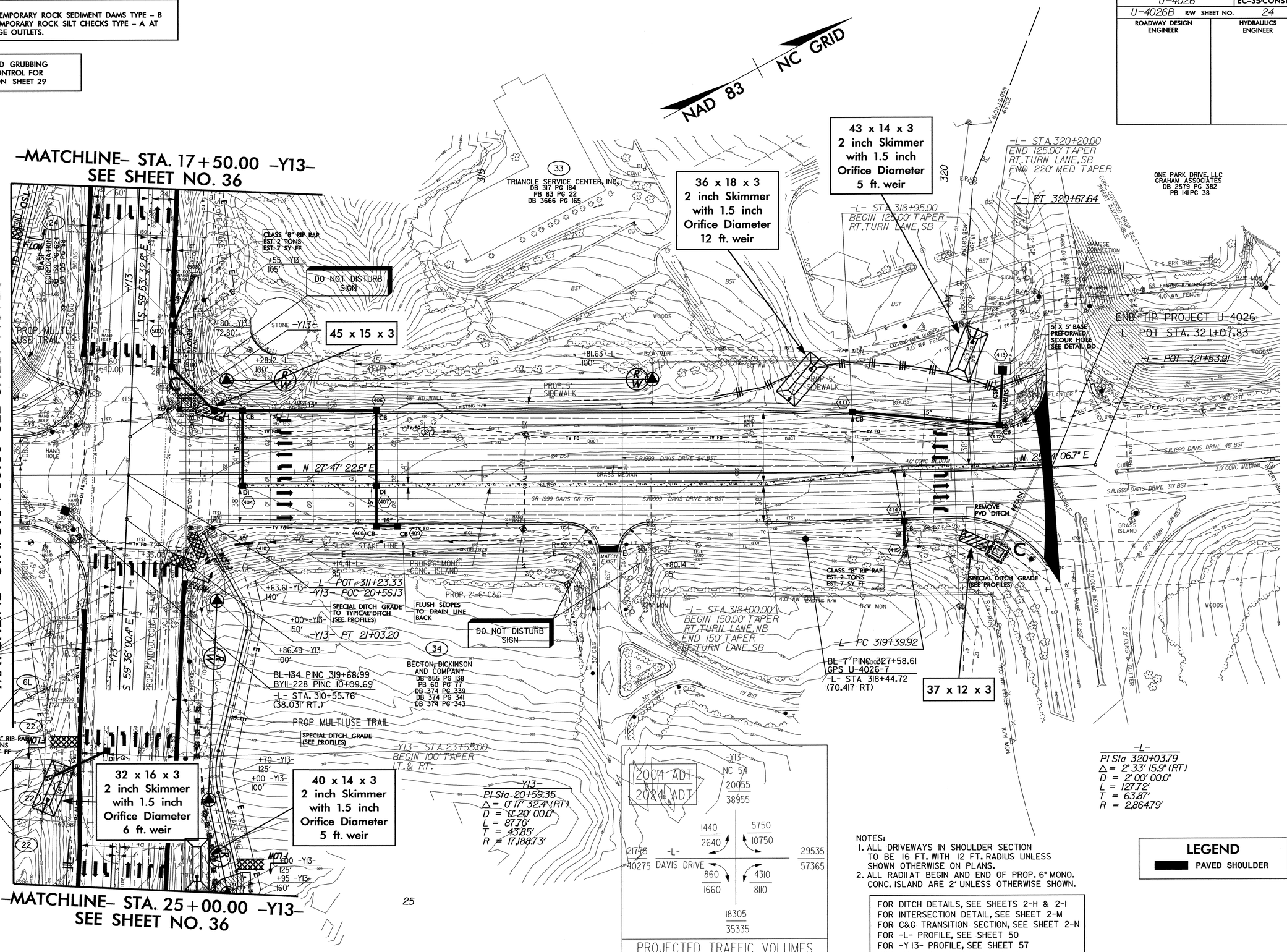
FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEETS 2-V & 2-W
FOR -L- PROFILE, SEE SHEET 50

LEGEND
PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-35/CONST.29
U-4026B R/W SHEET NO.	24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 29



NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

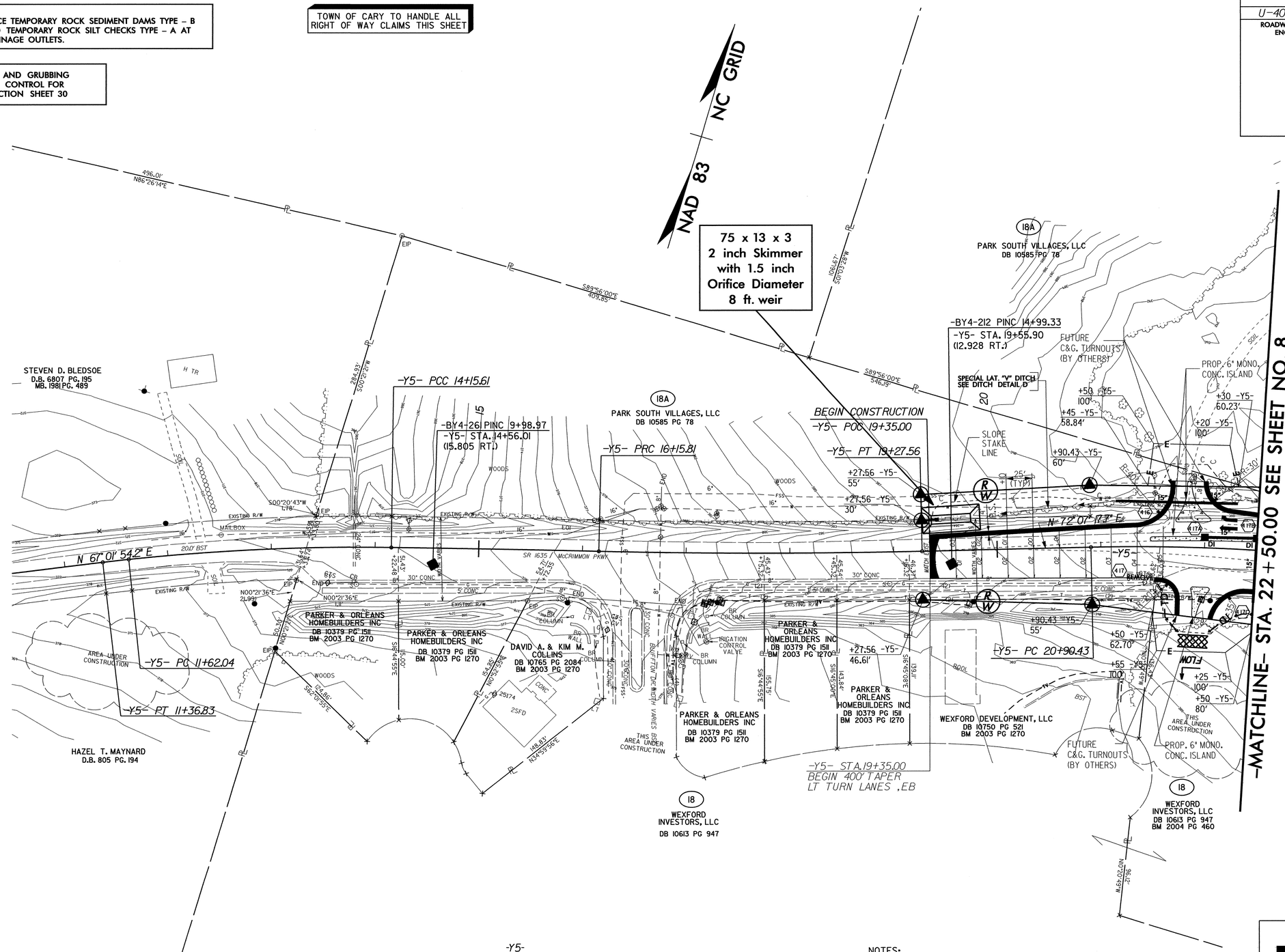
FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-M
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 50
FOR -Y13- PROFILE, SEE SHEET 57
FOR TRAIL PLANS SEE 2-W & 2-X

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-36/CONST.30
U-4026A R/W SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 30

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



-Y5-

PI Sta 10+68.42	PI Sta 12+88.98	PI Sta 15+15.71	PI Sta 17+71.71	PI Sta 22+49.68
Δ = 0° 45' 05.2" (RT)	Δ = 6° 47' 36.3" (RT)	Δ = 0° 33' 57.3" (RT)	Δ = 2° 36' 25.6" (LT)	Δ = 9° 31' 59.3" (RT)
D = 0° 32' 57.0"	D = 2° 40' 44.6"	D = 0° 16' 57.7"	D = 0° 50' 10.6"	D = 3° 00' 00.0"
L = 136.83'	L = 253.57'	L = 200.19'	L = 311.75'	L = 317.77'
T = 68.42'	T = 126.94'	T = 100.10'	T = 155.90'	T = 159.25'
R = 10,433.18'	R = 2,138.65'	R = 20,268.54'	R = 6,851.31'	R = 1,909.86'
				SE = 0.05 FT/FT
				RUNOFF = 100.0 FT

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEET 2-H
FOR -Y5- PROFILE, SEE SHEET 52

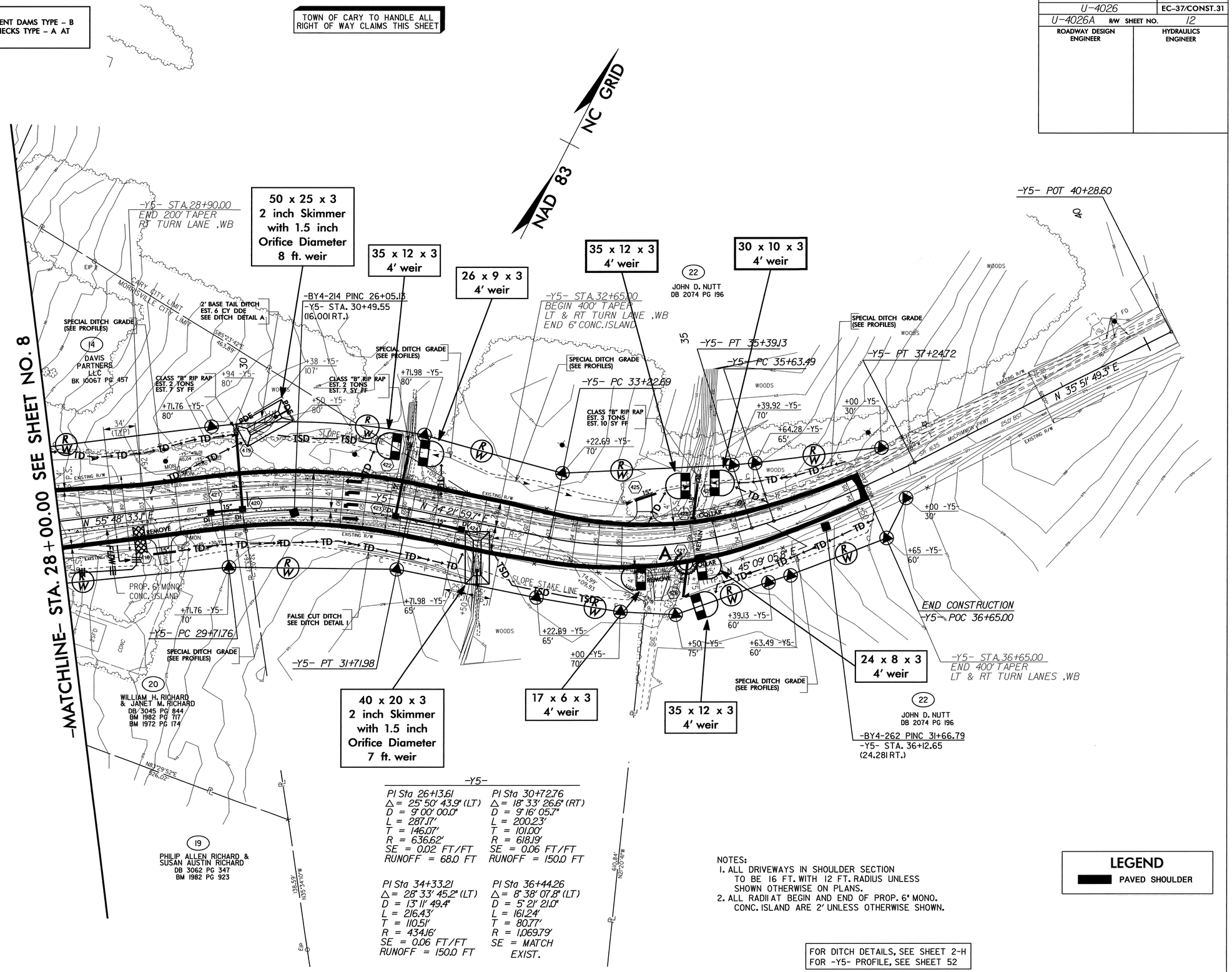
LEGEND
PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-37/CONST.31
U-4026A R/W SHEET NO. 12	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 31

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



-Y5-

PI Sta 26+13.61	PI Sta 30+72.76
Δ = 25° 50' 43.9" (LT)	Δ = 18° 33' 26.6" (RT)
D = 9° 00' 00.0"	D = 9° 16' 05.7"
L = 287.17'	L = 200.23'
T = 146.07'	T = 101.00'
R = 636.62'	R = 618.19'
SE = 0.02 FT/FT	SE = 0.06 FT/FT
RUNOFF = 68.0 FT	RUNOFF = 150.0 FT
PI Sta 34+33.21	PI Sta 36+44.26
Δ = 28° 33' 45.2" (LT)	Δ = 8° 38' 07.8" (LT)
D = 13° 11' 49.4"	D = 5° 21' 21.0"
L = 216.43'	L = 161.24'
T = 110.51'	T = 80.77'
R = 434.16'	R = 1,069.79'
SE = 0.06 FT/FT	SE = MATCH EXIST.
RUNOFF = 150.0 FT	

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEET 2-H
FOR -Y5- PROFILE, SEE SHEET 52

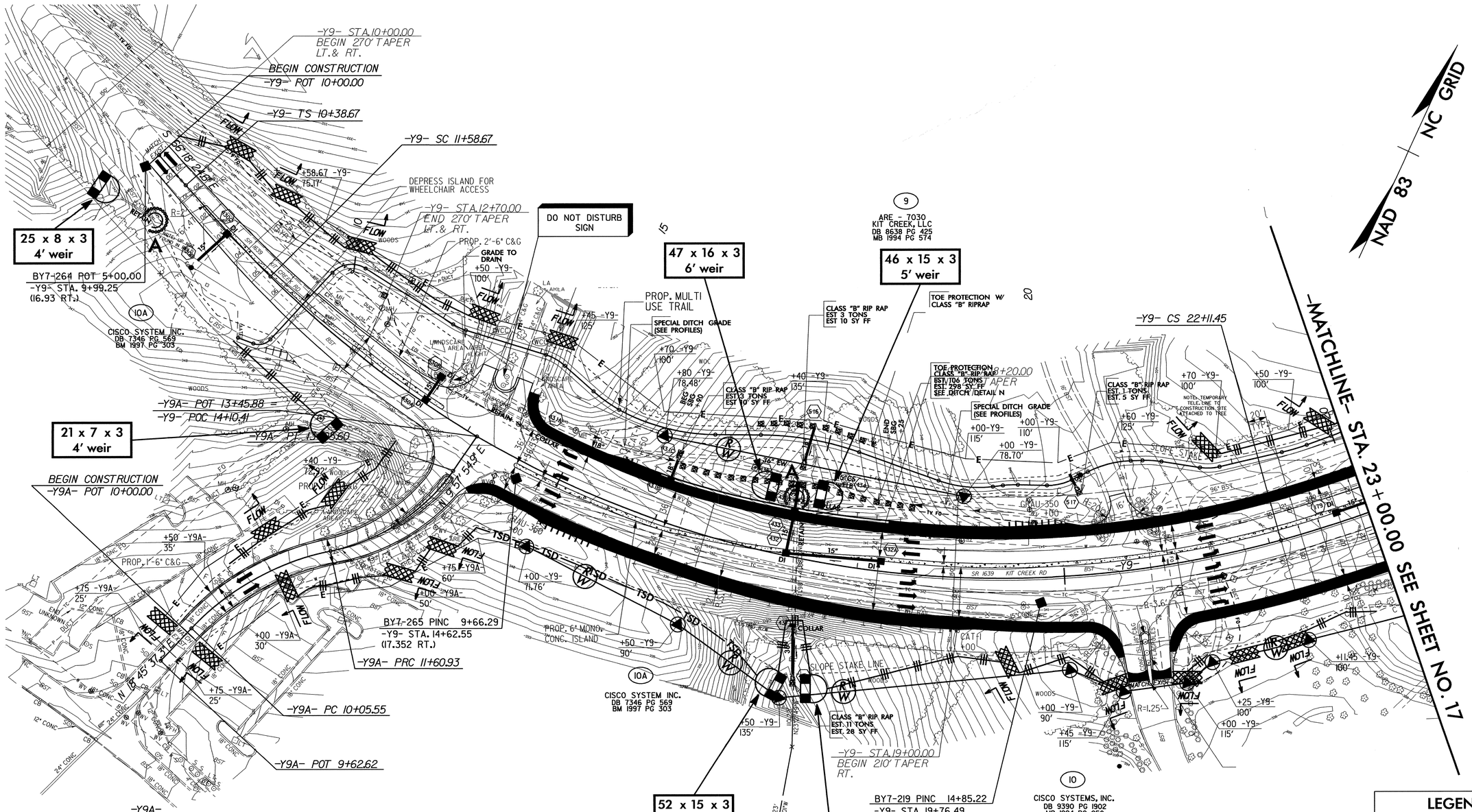
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-38/CONST.32
U-4026B R/W SHEET NO.	25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 32

-Y9-

PIs Sta 11+18.69	PI Sta 17+40.19	PIs Sta 22+51.46
Θs = 3° 27' 00.0"	Δ = 60° 32' 05.6" (LT)	Θs = 3° 27' 00.0"
Ls = 120.00'	D = 5° 45' 00.0"	Ls = 120.00'
LT = 80.02'	L = 1,052.78'	LT = 80.02'
ST = 40.01'	T = 581.52'	ST = 40.01'
	R = 996.45'	
	SE = 0.06 FT/FT	
	RUNOFF = 120.0 FT	



-Y9A-

PI Sta 10+85.73	PI Sta 12+36.97
Δ = 34° 49' 50.0" (RT)	Δ = 43° 37' 32.4" (LT)
D = 22° 25' 00.0"	D = 30° 09' 20.2"
L = 155.38'	L = 144.67'
T = 80.17'	T = 76.04'
R = 255.59'	R = 190.00'

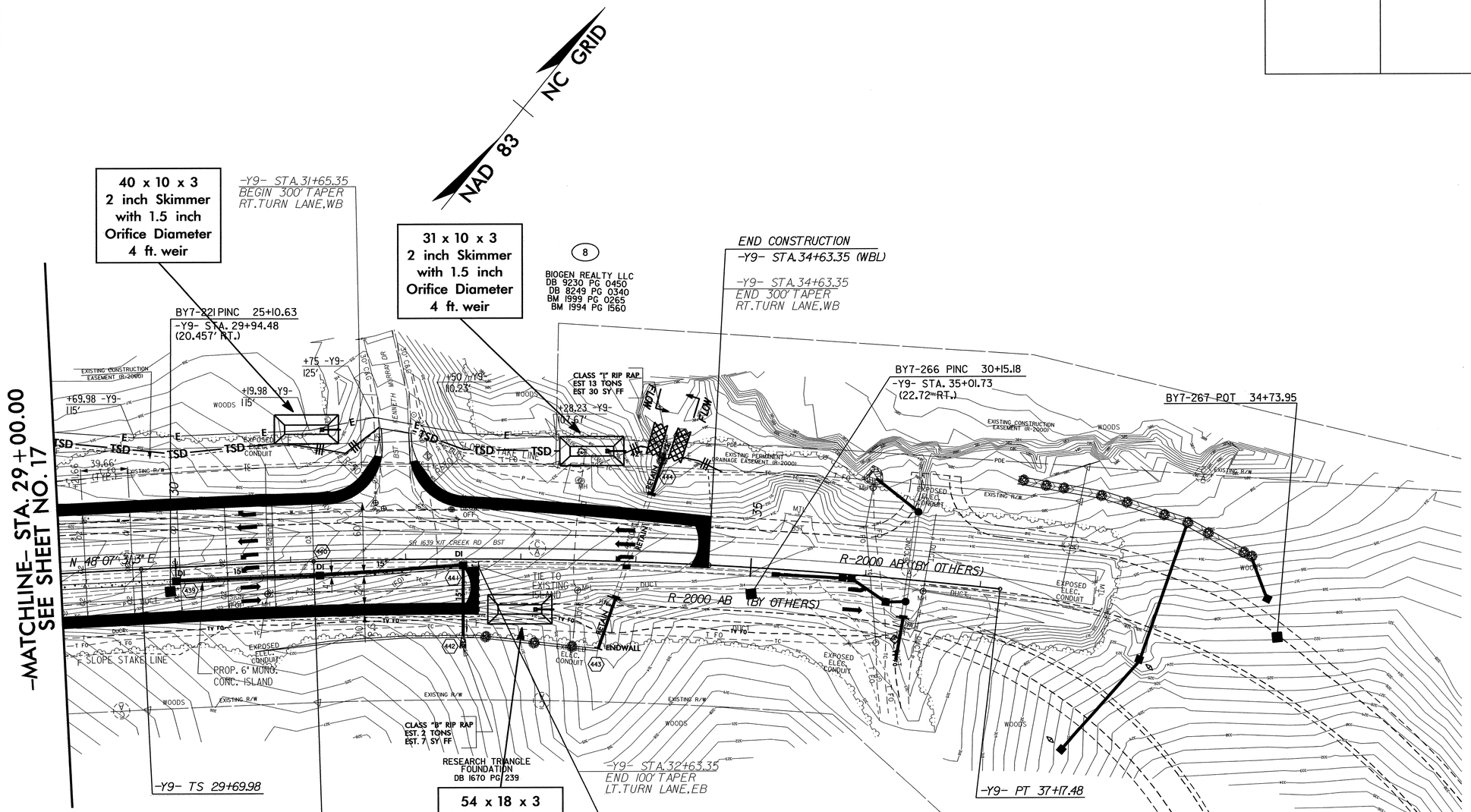
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR TRAIL PLAN, SEE SHEET 2-O
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y9- PROFILE, SEE SHEET 54
FOR -Y9A- PROFILE, SEE SHEET 55

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-39/CONST.33
U-4026B R/W SHEET NO. 26	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 33



-Y9-

PIs Sta 30+69.98	PI Sta 34+19.26
Θs = 1° 03' 01.7"	Δ = 8° 22' 07.0" (RT)
Ls = 150.00'	D = 1° 24' 02.2"
LT = 100.00'	L = 597.49'
ST = 50.00'	T = 299.28'
	R = 4,090.75'
	SE = 0.03 FT/FT
	RUNOFF = 150.0 FT

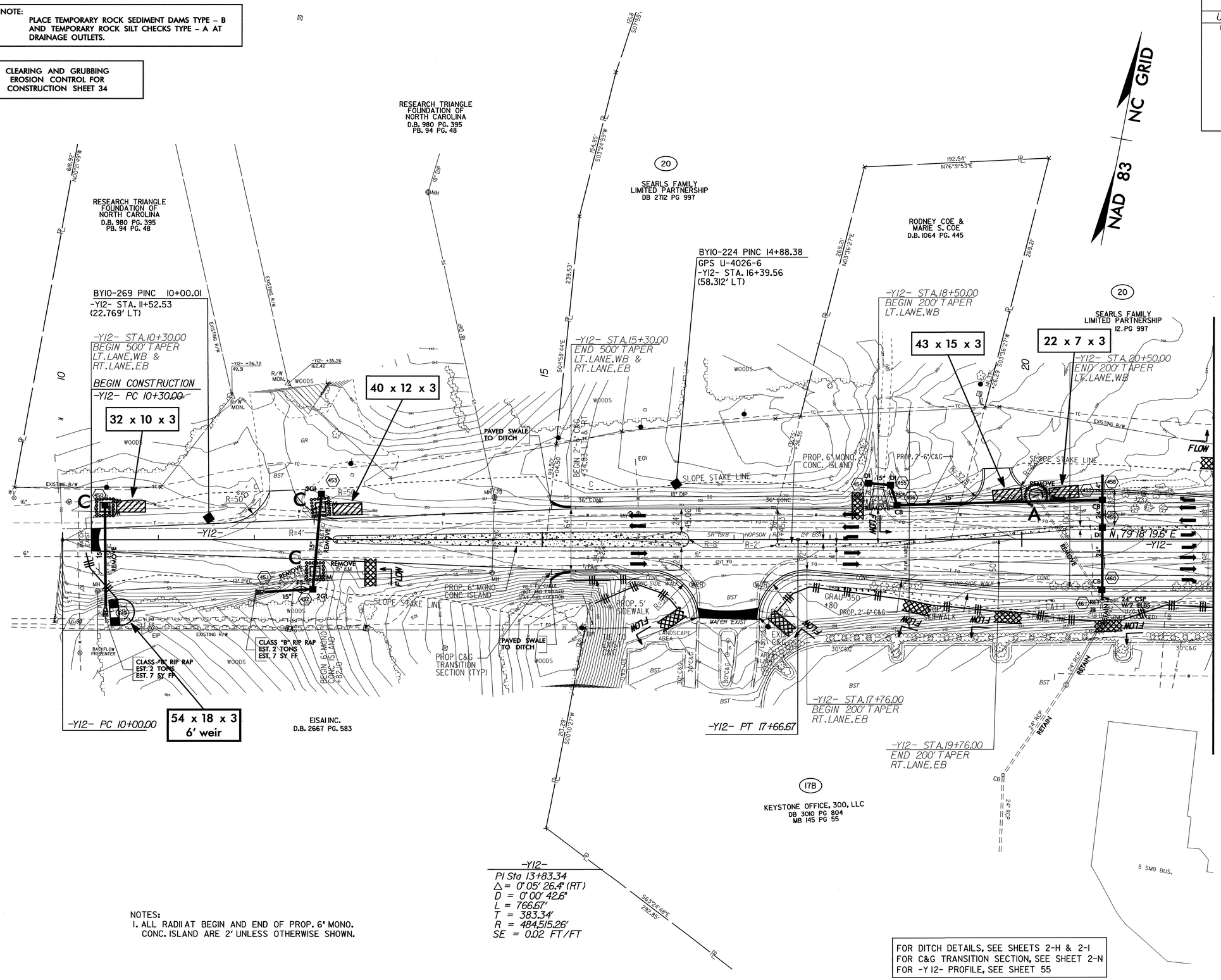
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y9- PROFILE, SEE SHEET 54

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-40/CONST.34
U-4026B R/W SHEET NO. 27	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 34



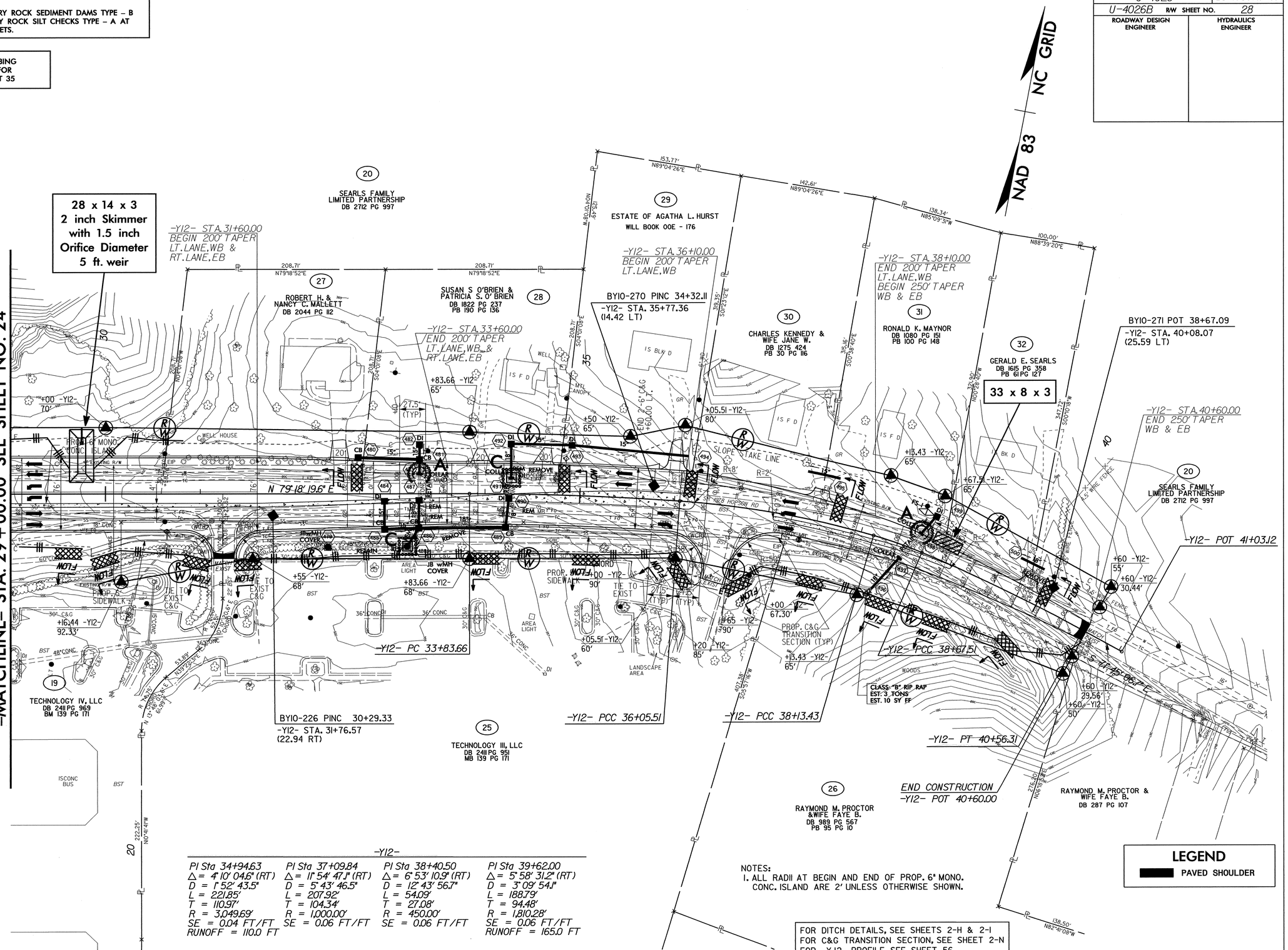
NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y12- PROFILE, SEE SHEET 55

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-41/CONST.35
U-4026B R/W SHEET NO.	28
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 35



-Y12-

PI Sta 34+94.63	PI Sta 37+09.84	PI Sta 38+40.50	PI Sta 39+62.00
Δ = 4° 10' 04.6" (RT)	Δ = 11° 54' 47.1" (RT)	Δ = 6° 53' 10.9" (RT)	Δ = 5° 58' 31.2" (RT)
D = 1° 52' 43.5"	D = 5° 43' 46.5"	D = 12° 43' 56.7"	D = 3° 09' 54.1"
L = 221.85'	L = 207.92'	L = 54.09'	L = 188.79'
T = 110.97'	T = 104.34'	T = 27.08'	T = 94.48'
R = 3,049.69'	R = 1,000.00'	R = 450.00'	R = 1,810.28'
SE = 0.04 FT/FT	SE = 0.06 FT/FT	SE = 0.06 FT/FT	SE = 0.06 FT/FT
RUNOFF = 110.0 FT			RUNOFF = 165.0 FT

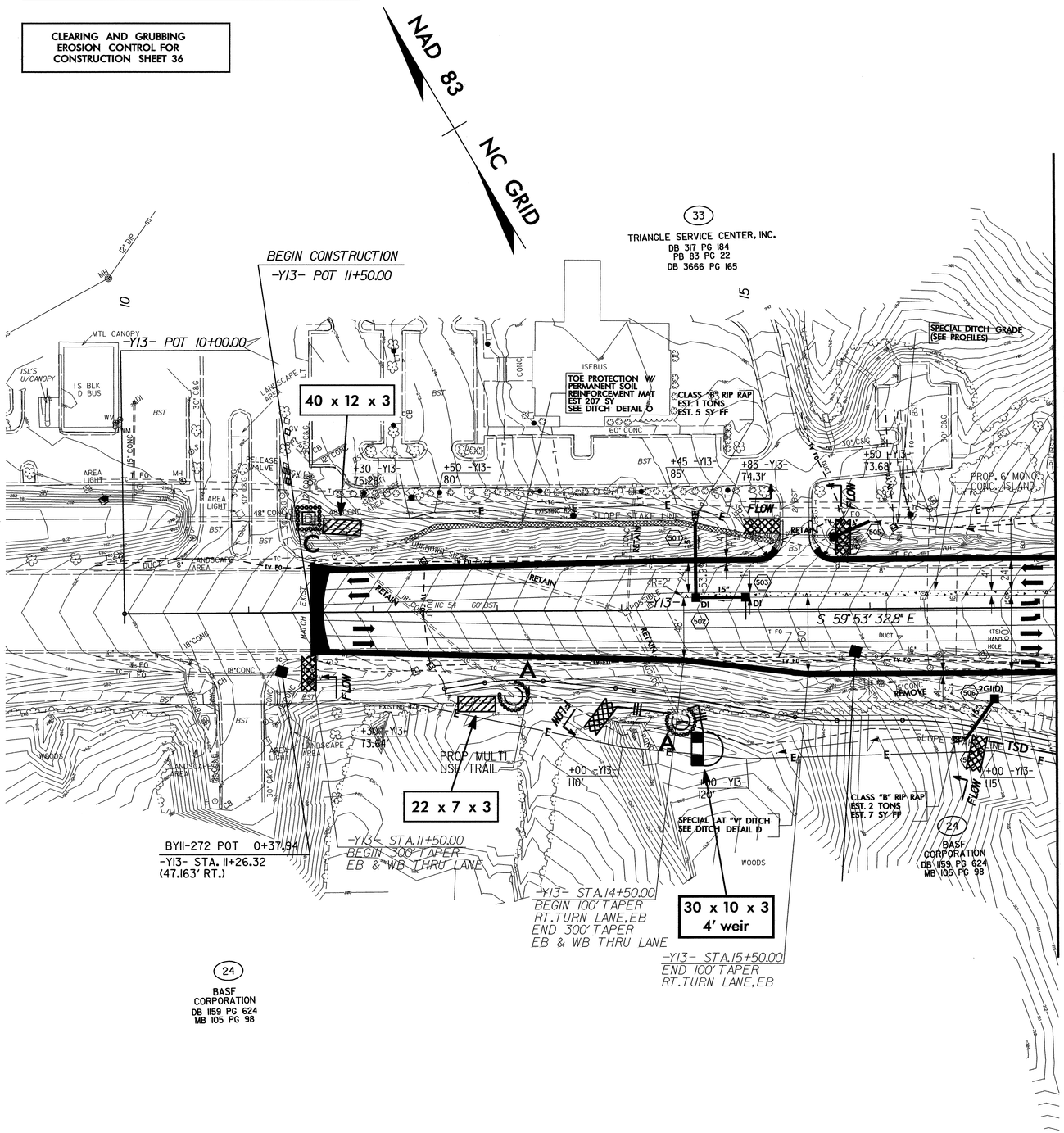
NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

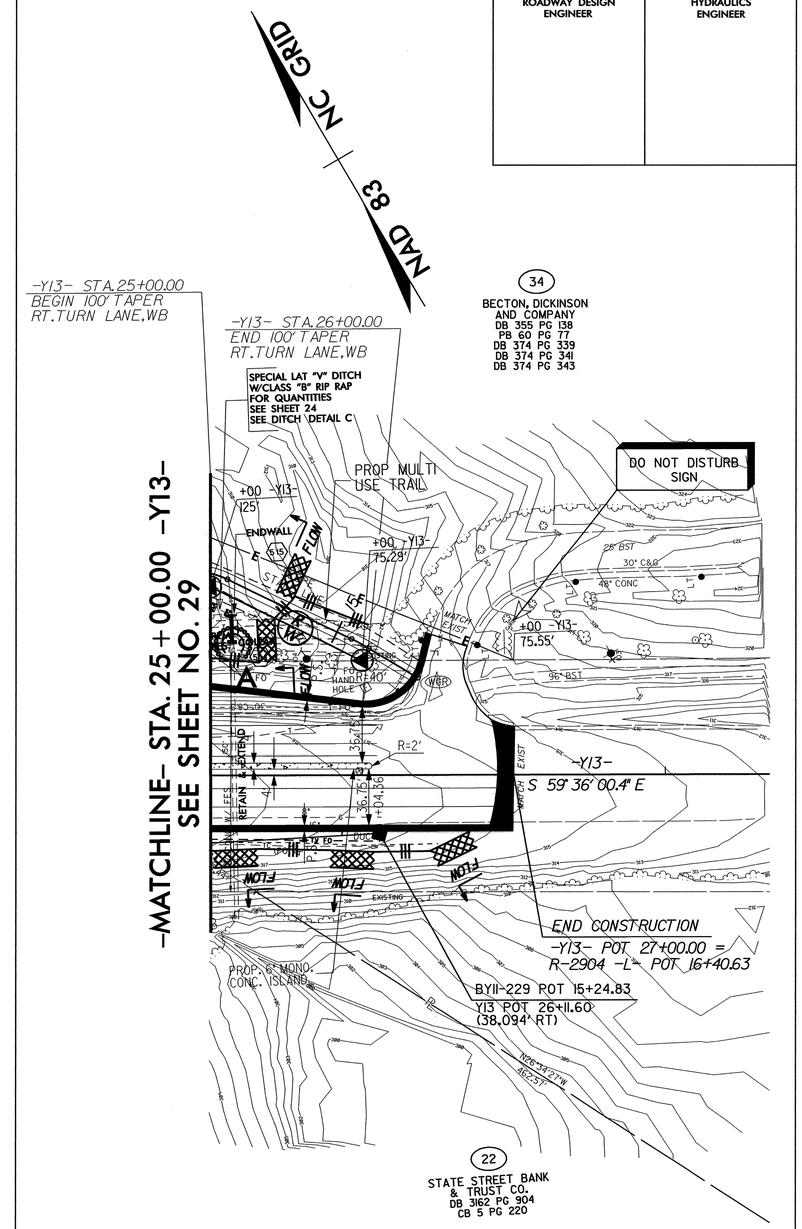
FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y12- PROFILE, SEE SHEET 56

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-42/CONST.36
U-4026B R/W SHEET NO.	29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 36





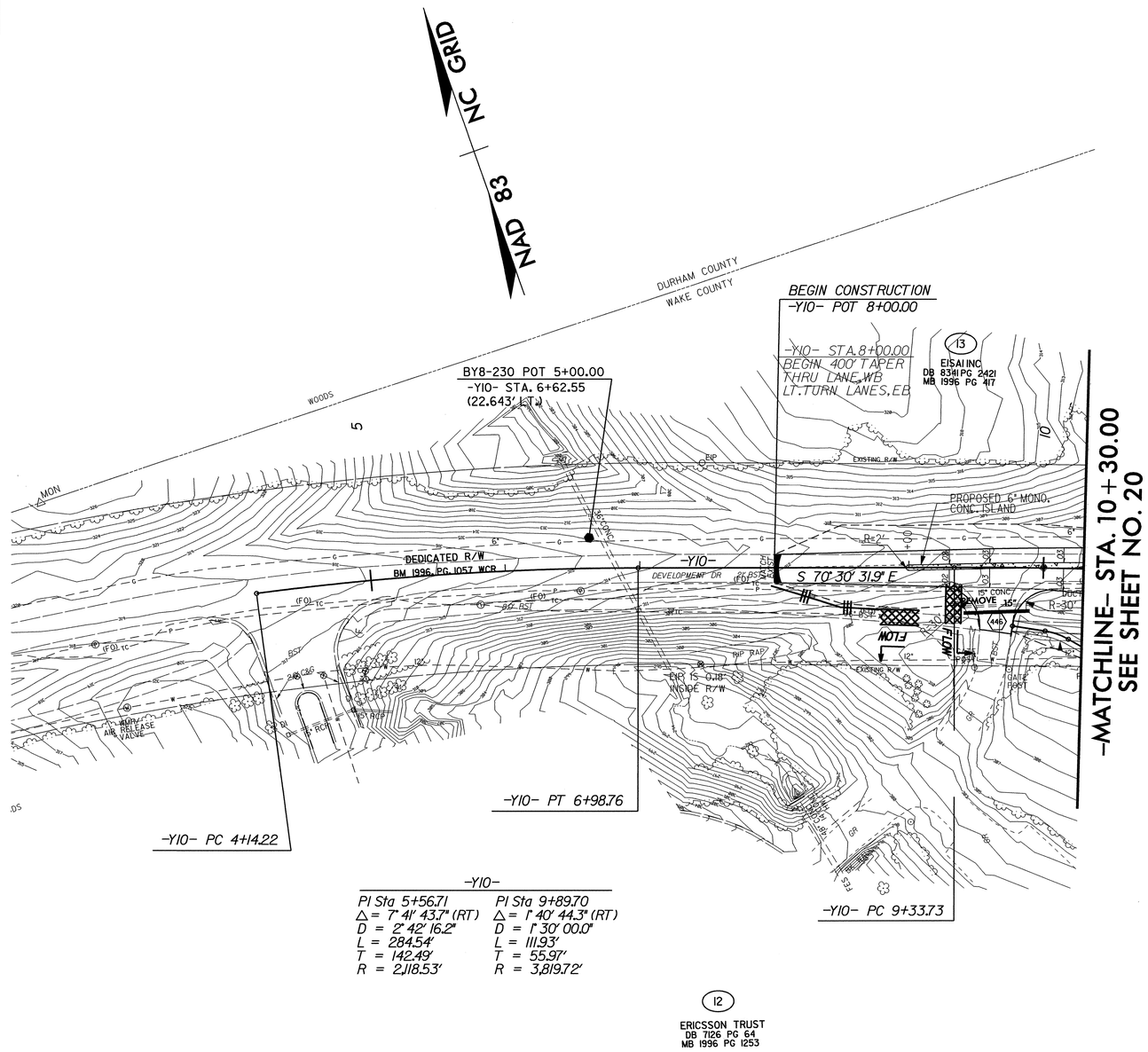
LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION, SEE SHEET 2-N
FOR TRAIL PLANS, SEE SHEETS 2-W & 2-X
FOR -Y13- PROFILE, SEE SHEET 57

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-43/CONST.37
U-4026B R/W SHEET NO.	30
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 37



-Y10-

PI Sta 5+56.71	PI Sta 9+89.70
Δ = 7° 41' 43.7" (RT)	Δ = 1° 40' 44.3" (RT)
D = 2° 42' 16.2"	D = 1° 30' 00.0"
L = 284.54'	L = 111.93'
T = 142.49'	T = 55.97'
R = 2,118.53'	R = 3,819.72'

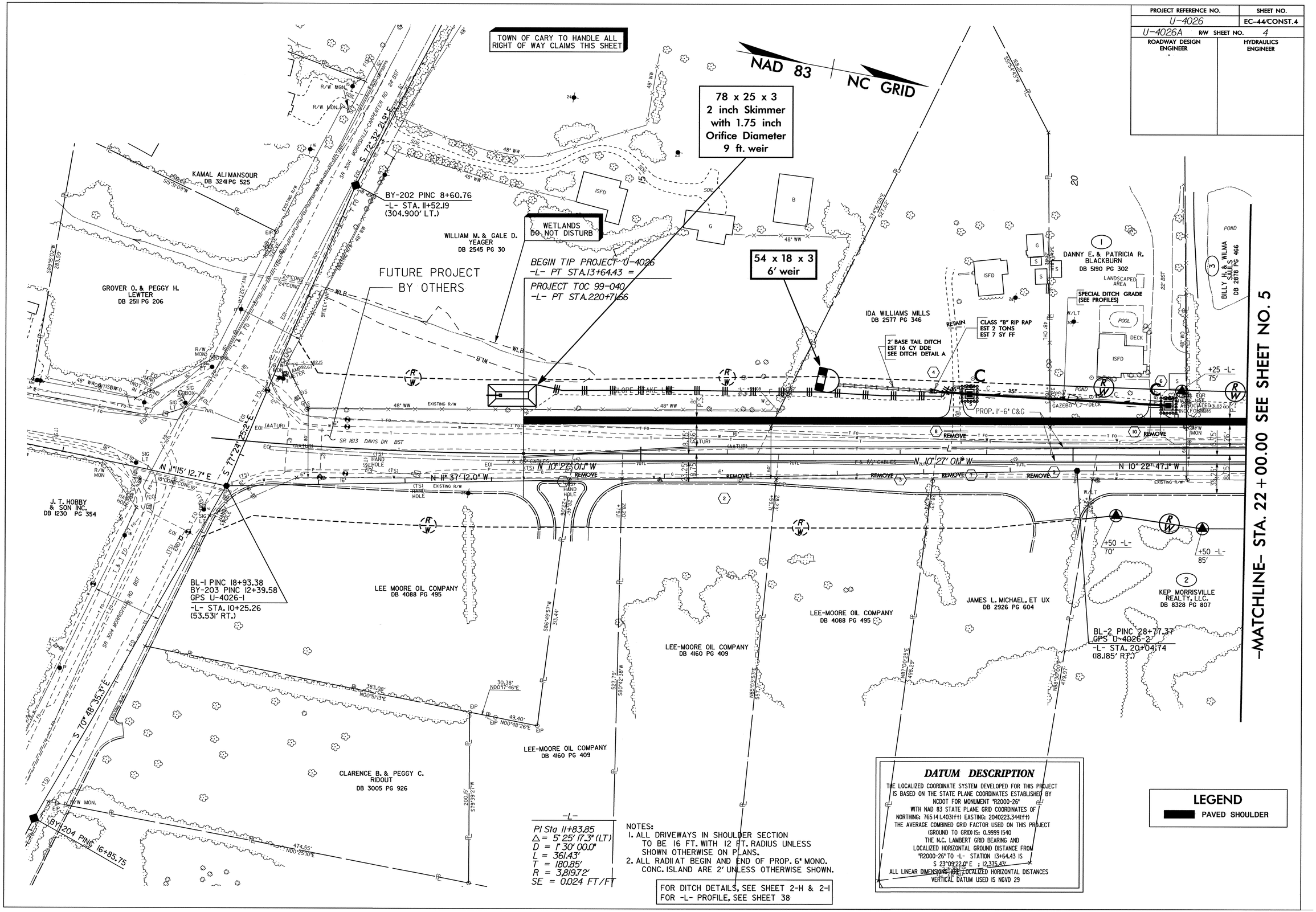
12
ERICSSON TRUST
DB 7126 PG 64
MB 1996 PG 1253

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND
PAVED SHOULDER

FOR TRAIL PLANS SEE SHEET 2-Q
FOR DITCH DETAILS SEE SHEET 2-H & 2-I
FOR -Y10- PROFILE, SEE SHEET 53

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-44/CONST.4
U-4026A R/W SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-

PI Sta 11+83.85
Δ = 5° 25' 17.3" (LT)
D = 1° 30' 00.0"
L = 361.43'
T = 180.85'
R = 3,819.72'
SE = 0.024 FT/FT

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 38

DATUM DESCRIPTION

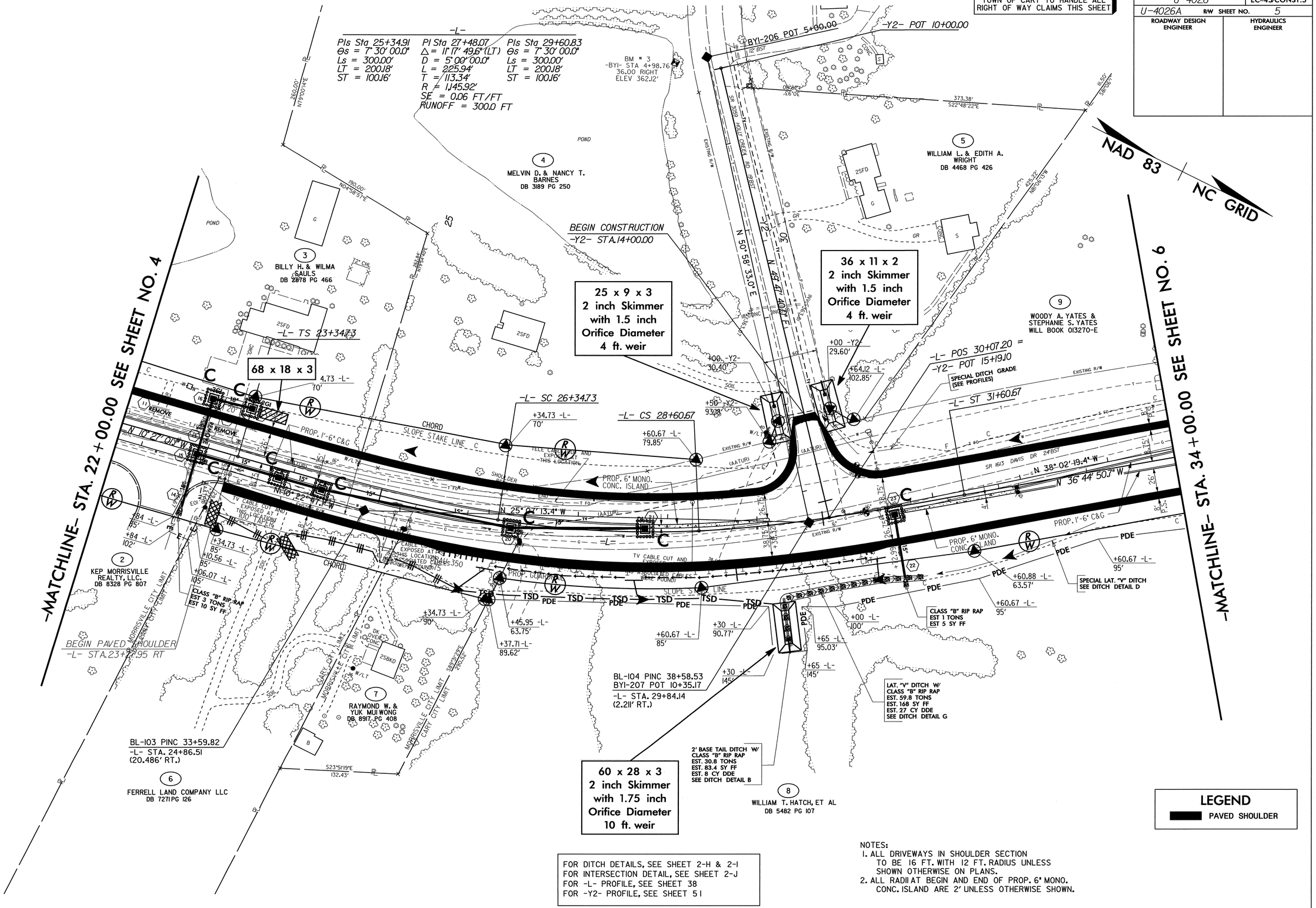
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2000-26" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 765141.403(FT) EASTING: 2040223.344(FT) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999154O THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2000-26" TO -L- STATION 13+64.43 IS S 23°09'22.0" E : 12,375.43' ALL LINEAR DIMENSIONS ARE IN FEET LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

LEGEND

PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-45/CONST.5
U-4026A R/W SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET

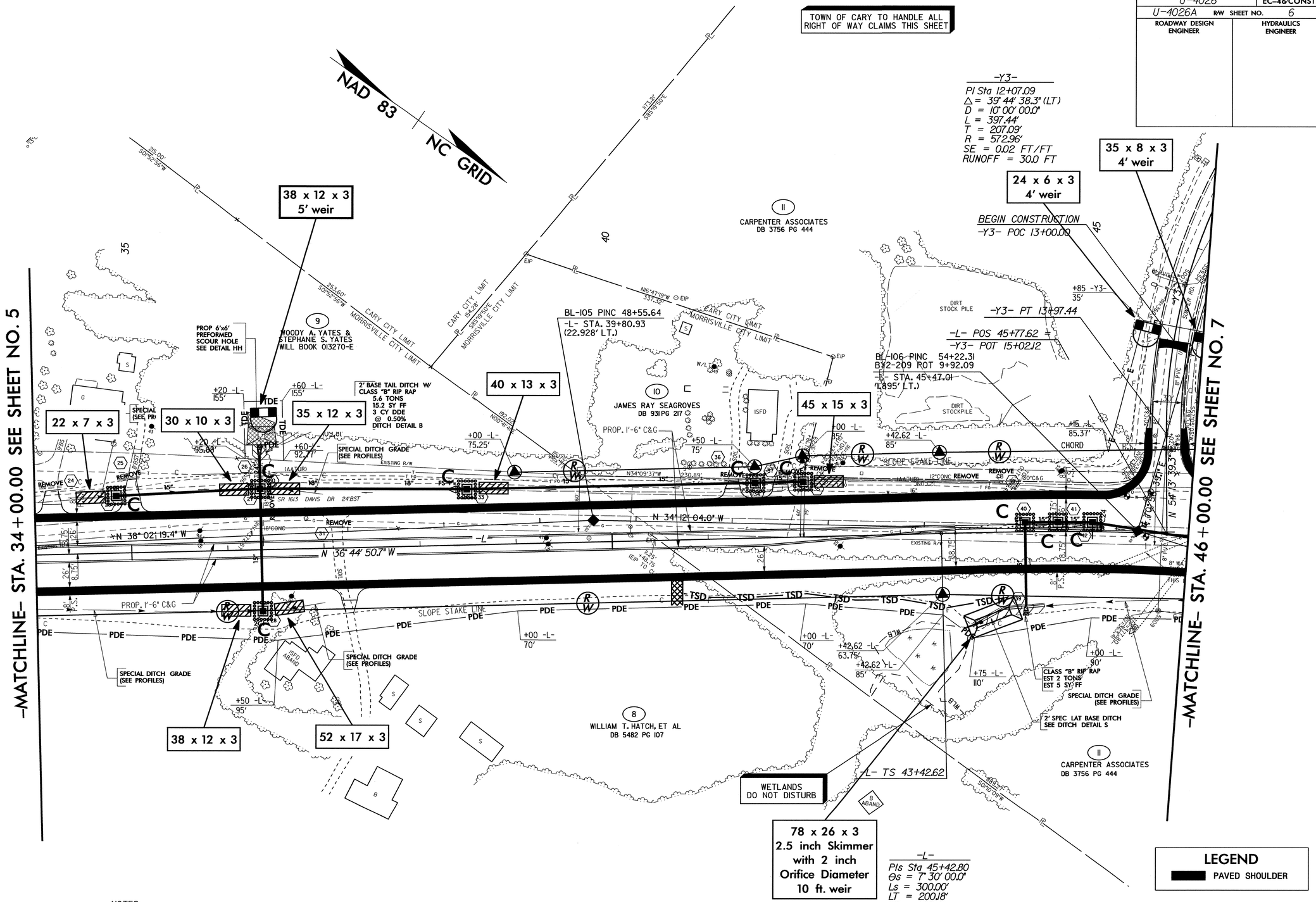


FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR -L- PROFILE, SEE SHEET 38
FOR -Y2- PROFILE, SEE SHEET 51

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-46/CONST.6
U-4026A R/W SHEET NO. 6	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

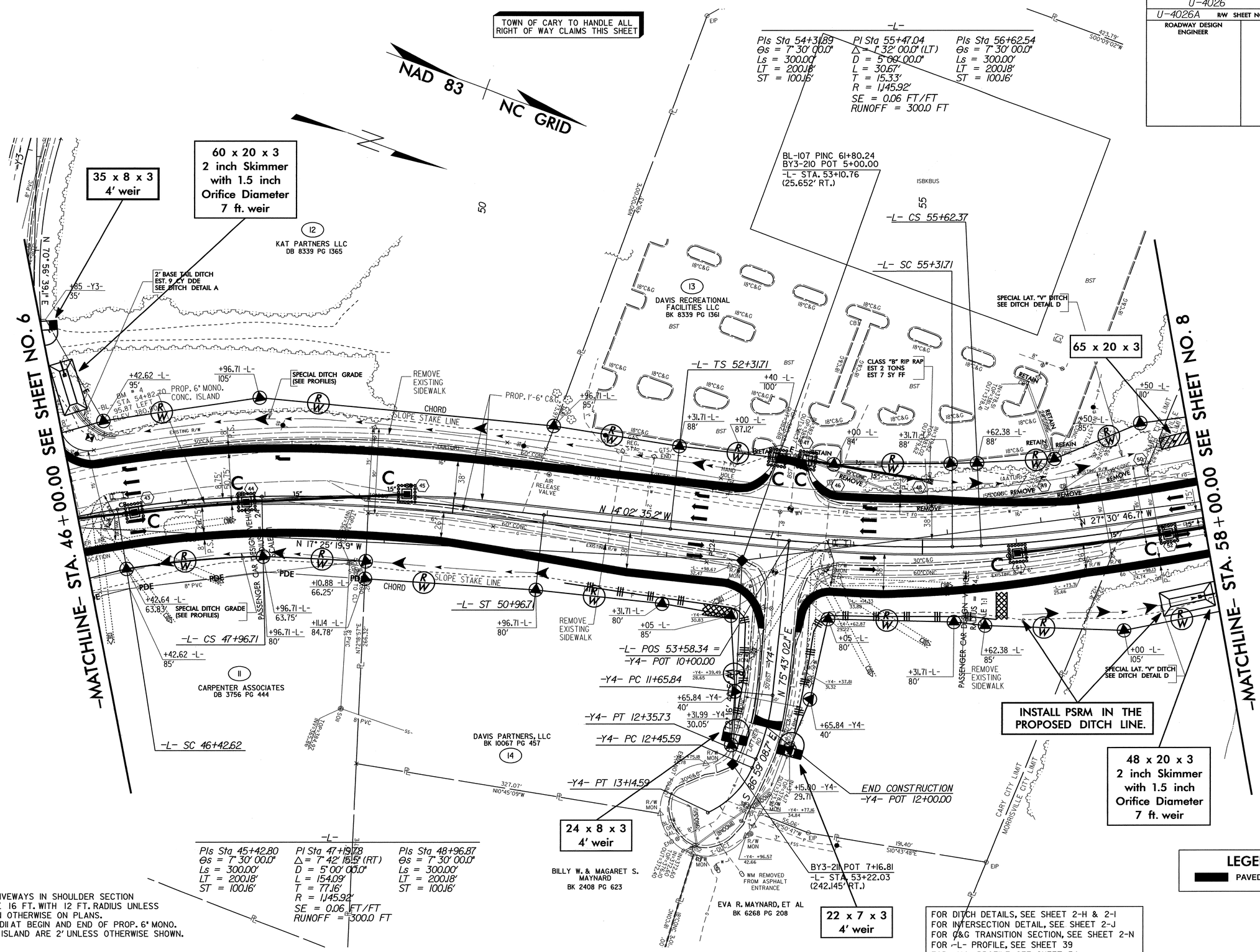
TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 39
FOR -Y3- PROFILE, SEE SHEET 51

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-47/CONST.7
U-4026A RW SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 39
FOR -Y4- PROFILE, SEE SHEET 51

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-48/CONST.8
U-4026A RW SHEET NO. 8	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET

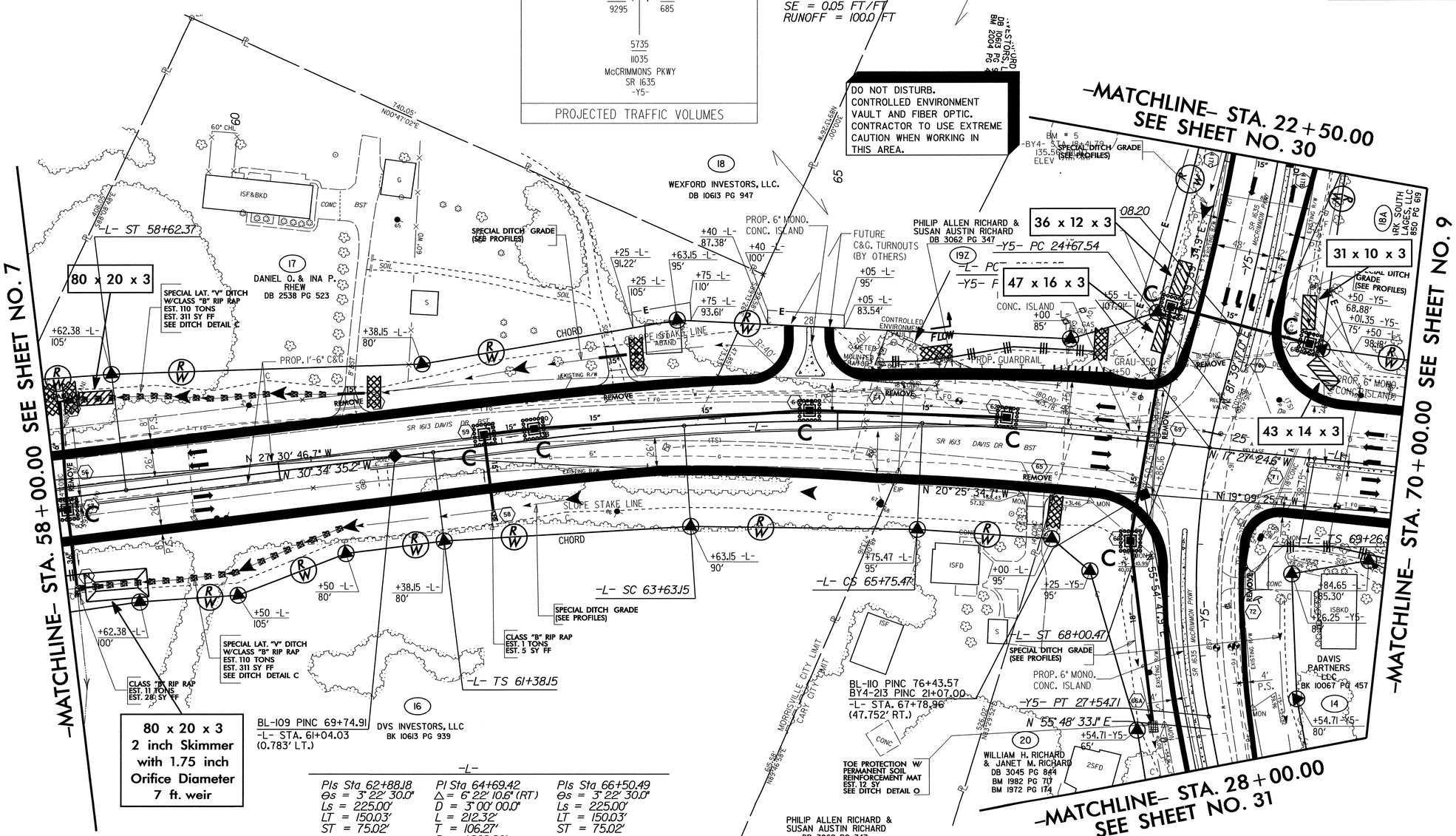
2004 ADT / 2024 ADT	
-Y5- SR 1635 KOPPERS RD.	925 / 2325
-L- DAVIS DRIVE	20480 / 36880
-L- DAVIS DRIVE	15670 / 28270
-L- DAVIS DRIVE	385 / 688
-L- DAVIS DRIVE	385 / 685
-L- DAVIS DRIVE	5195 / 9295
-L- DAVIS DRIVE	385 / 685
-L- DAVIS DRIVE	5735 / 11035
McCRIMMONS PKWY SR 1635 -Y5-	

PROJECTED TRAFFIC VOLUMES

NAD 83 / NC GRID

-Y5-
PI Sta 22+49.68
△ = 9° 31' 59.3" (RT)
D = 3° 00' 00.0"
L = 317.77'
T = 159.25'
R = 1,909.86'
SE = 0.05 FT/FT
RUNOFF = 100.0 FT

DO NOT DISTURB. CONTROLLED ENVIRONMENT VAULT AND FIBER OPTIC. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING IN THIS AREA.



-L-

PIs Sta 62+88.18	PI Sta 64+69.42	PIs Sta 66+50.49
θs = 3° 22' 30.0"	△ = 6° 22' 10.6" (RT)	θs = 3° 22' 30.0"
Ls = 225.00'	D = 3° 00' 00.0"	Ls = 225.00'
LT = 150.03'	L = 212.32'	LT = 150.03'
ST = 75.02'	T = 106.27'	ST = 75.02'
	R = 1,909.86'	
	SE = 0.05 FT/FT	
	RUNOFF = 225.0 FT	

-L-
PIs Sta 70+60.27
θs = 2° 00' 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

-Y5-
PI Sta 26+13.61
△ = 25° 50' 43.9" (LT)
D = 9° 00' 00.0"
L = 287.17'
T = 146.07'
R = 636.62'
SE = 0.02 FT/FT
RUNOFF = 68.0 FT

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEET 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-J
FOR -L- PROFILE, SEE SHEET 40
FOR -Y5- PROFILE, SEE SHEET 52

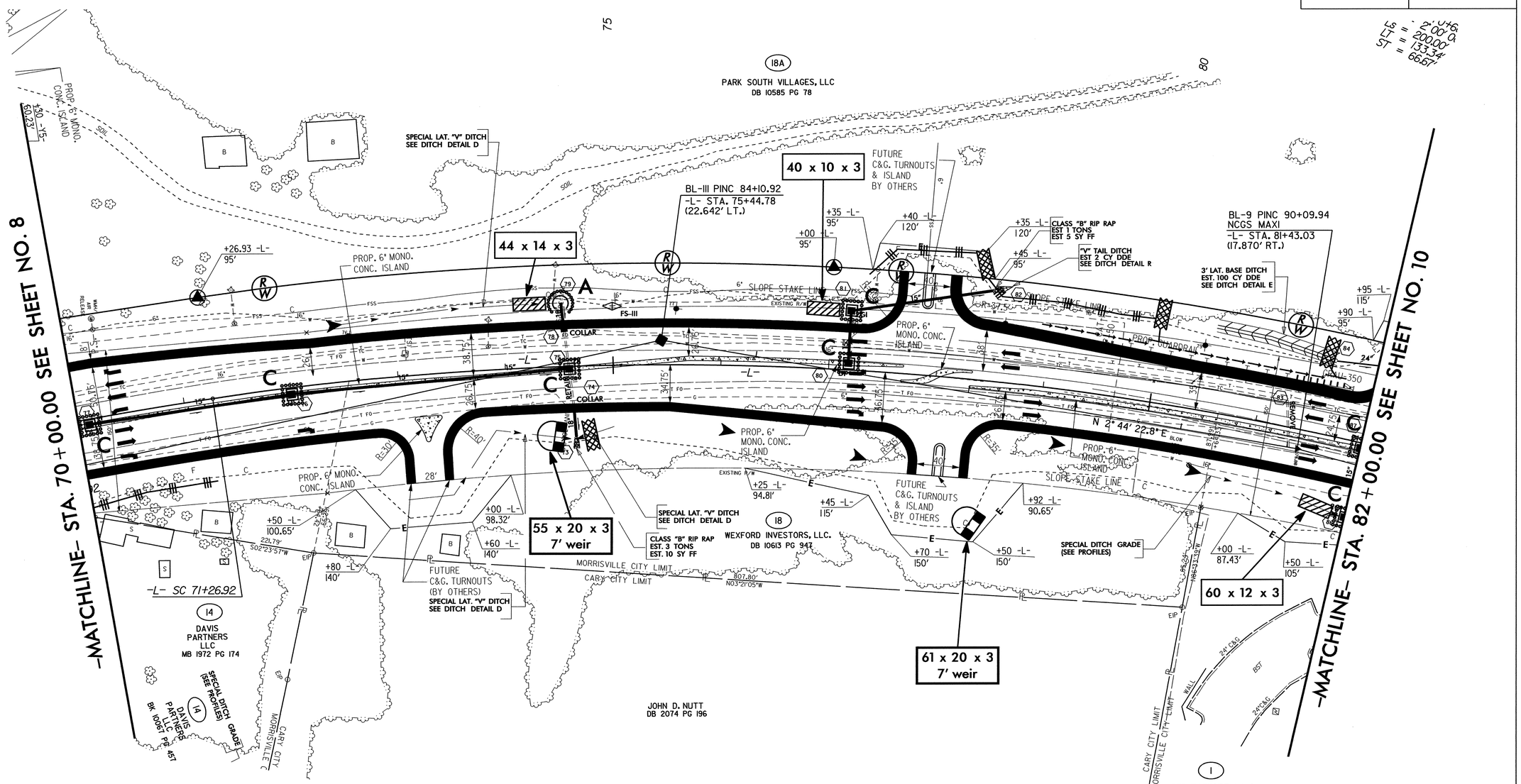
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-49/CONST.9
U-4026A R/W SHEET NO.	9
U-4026B R/W SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TOWN OF CARY TO HANDLE CLAIMS ON PARCEL NO. 14 & 18 THIS SHEET

-L-

PIs Sta 70+60.27	PI Sta 80+83.70	PIs Sta 90+40.41
Θs = 2° 00' 00.0"	Δ = 36° 56' 10.4" (RT)	Θs = 2° 00' 00.0"
Ls = 200.00'	D = 2° 00' 00.0"	Ls = 200.00'
LT = 133.34'	L = 1,846.81'	LT = 133.34'
ST = 66.67'	T = 956.77'	ST = 66.67'
	R = 2,864.79'	
	SE = 0.04 FT/FT	
	RUNOFF = 200.0 FT	

NAD 83 | NC GRID

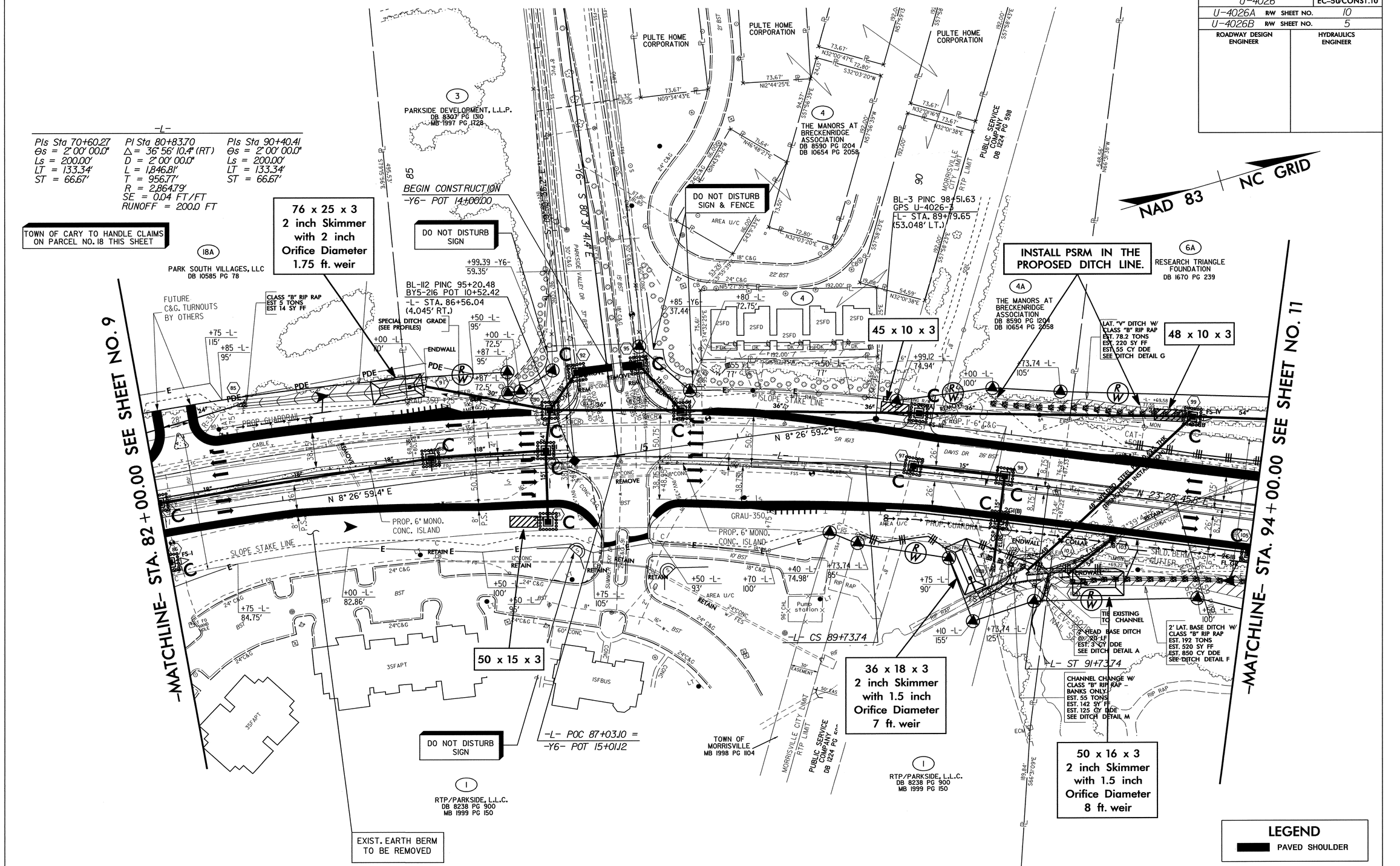


NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 40

LEGEND
PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-50/CONST.10
U-4026A R/W SHEET NO.	10
U-4026B R/W SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-K
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 41
FOR -Y6- PROFILE, SEE SHEET 53

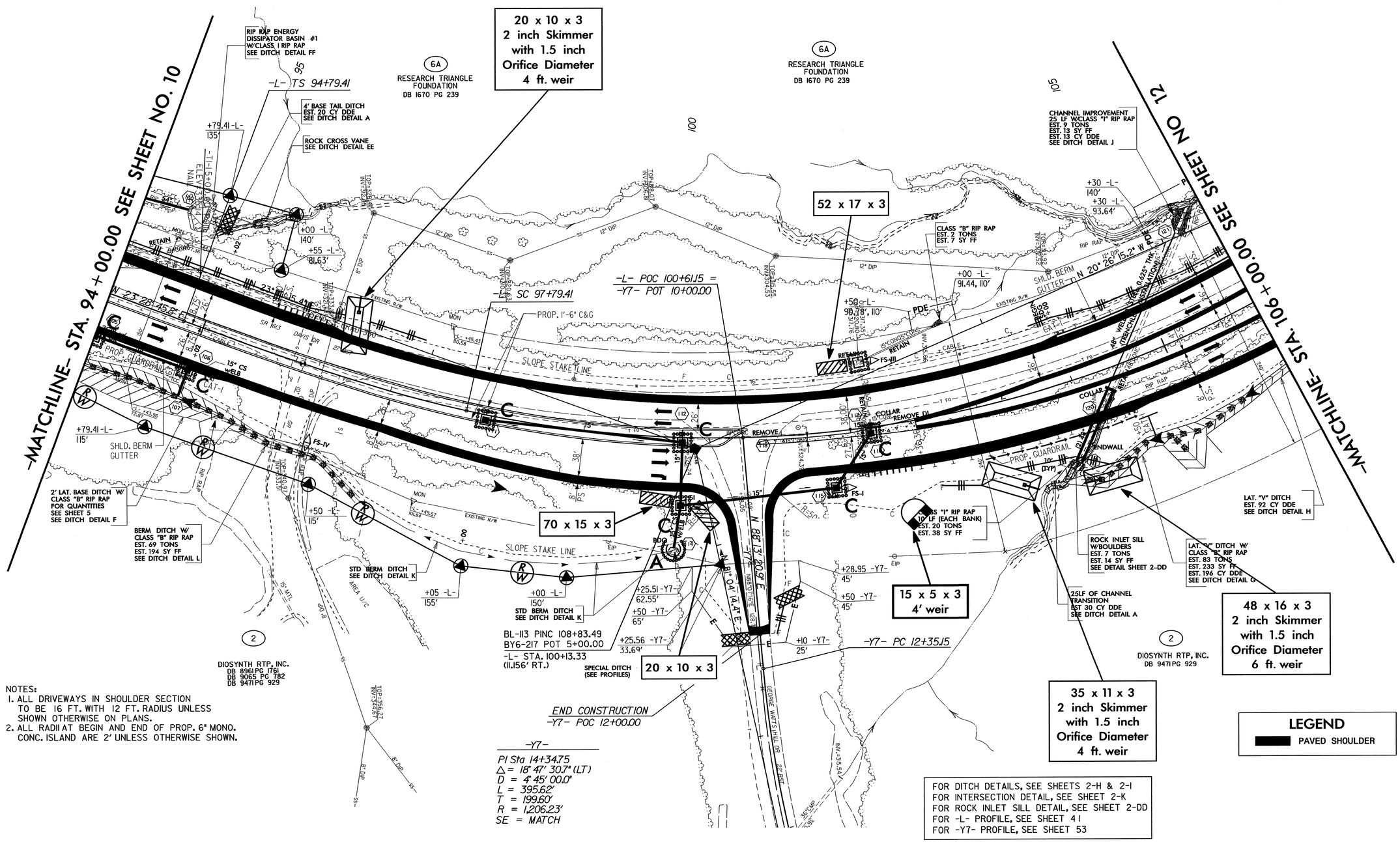
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-51/CONST.11
U-4026B R/W SHEET NO.	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PIs Sta 96+79.59
Θs = 7° 30' 00.0"
Ls = 300.00'
LT = 200.18'
ST = 100.16'

PI Sta 103+87.90
Δ = 55° 56' 12.8" (LT)
D = 5° 00' 00.0"
L = 1,118.74'
T = 608.48'
R = 1,145.92'
SE = 0.06 FT/FT
RUNOFF = 300.0 FT

NAD 83 | NC GRID



-Y7-

PI Sta 14+34.75
Δ = 18° 47' 30.7" (LT)
D = 4° 45' 00.0"
L = 395.62'
T = 199.60'
R = 1,206.23'
SE = MATCH

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-K
FOR ROCK INLET SILL DETAIL, SEE SHEET 2-DD
FOR -L- PROFILE, SEE SHEET 41
FOR -Y7- PROFILE, SEE SHEET 53

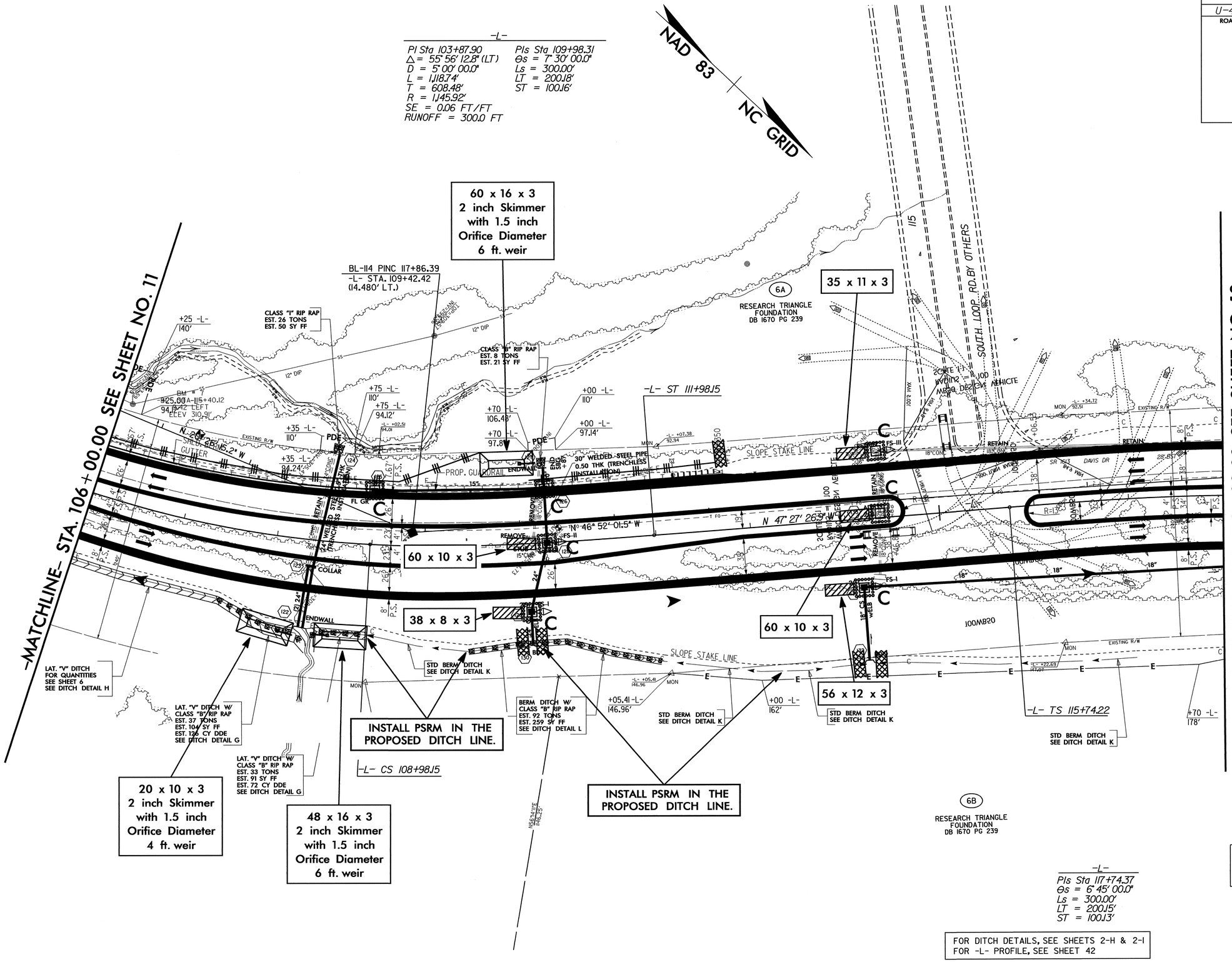
LEGEND
PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-52/CONST.12
U-4026B R/W SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PI Sta 103+87.90
Δ = 55° 56' 12.8" (LT)
D = 5° 00' 00.0"
L = 1,118.74'
T = 608.48'
R = 1,145.92'
SE = 0.06 FT/FT
RUNOFF = 300.0 FT

PIs Sta 109+98.31
Θs = 7° 30' 00.0"
Ls = 300.00'
LT = 200.18'
ST = 100.16'



-L-

PIs Sta 117+74.37
Θs = 6° 45' 00.0"
Ls = 300.00'
LT = 200.15'
ST = 100.13'

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 42

LEGEND

PAVED SHOULDER

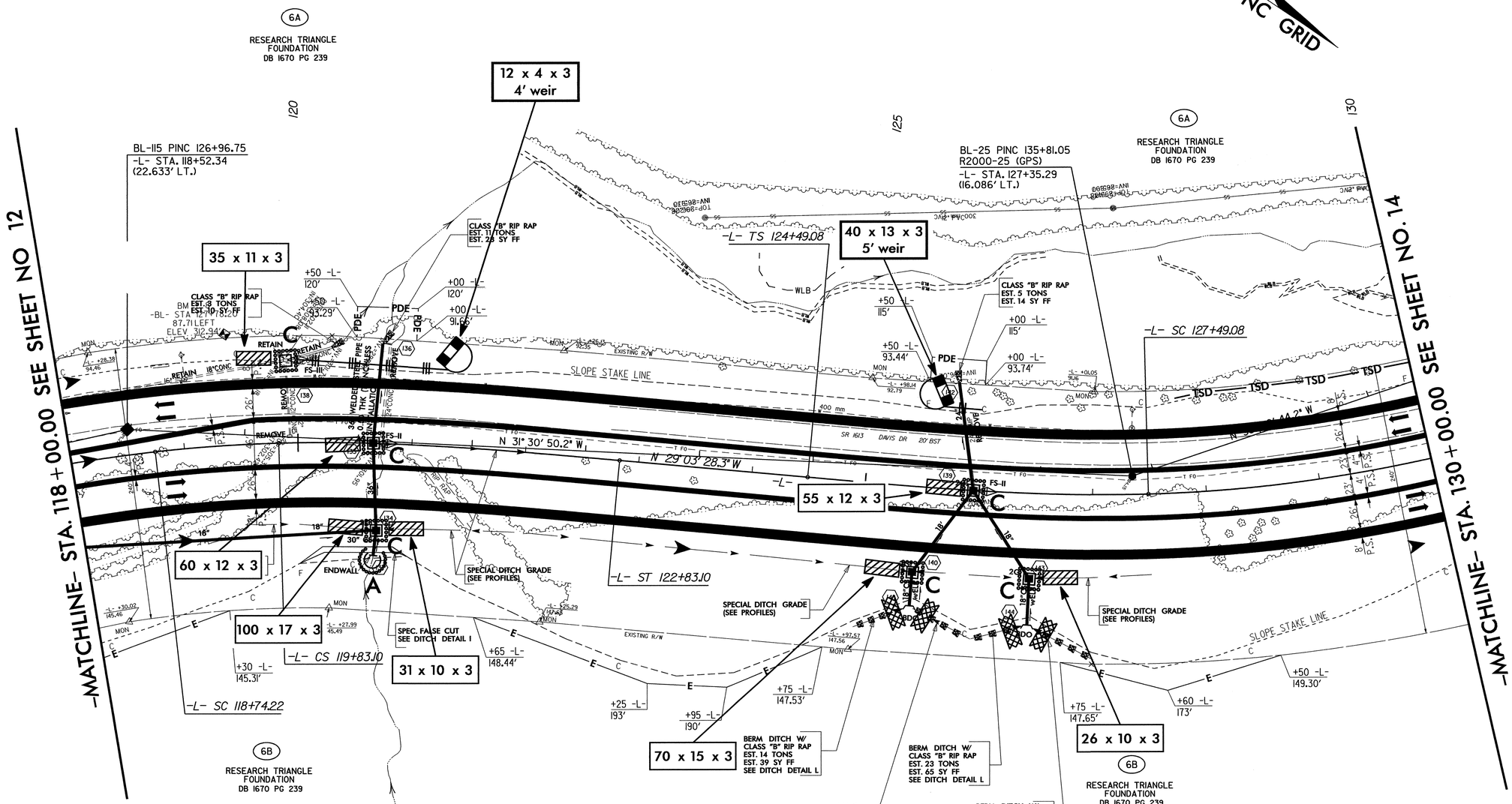
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-53/CONST.13
U-4026B R/W SHEET NO.	8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PIs Sta 126+49.22
Θs = 6° 45' 00.0"
Ls = 300.00'
LT = 200.15'
ST = 100.13'

PI Sta 128+78.04
Δ = 11° 34' 03.7" (LT)
D = 4° 30' 00.0"
L = 257.06'
T = 128.97'
R = 1,273.24'
SE = 0.08 FT/FT
RUNOFF = 300.0 FT

NAD 83 / NC GRID



-L-

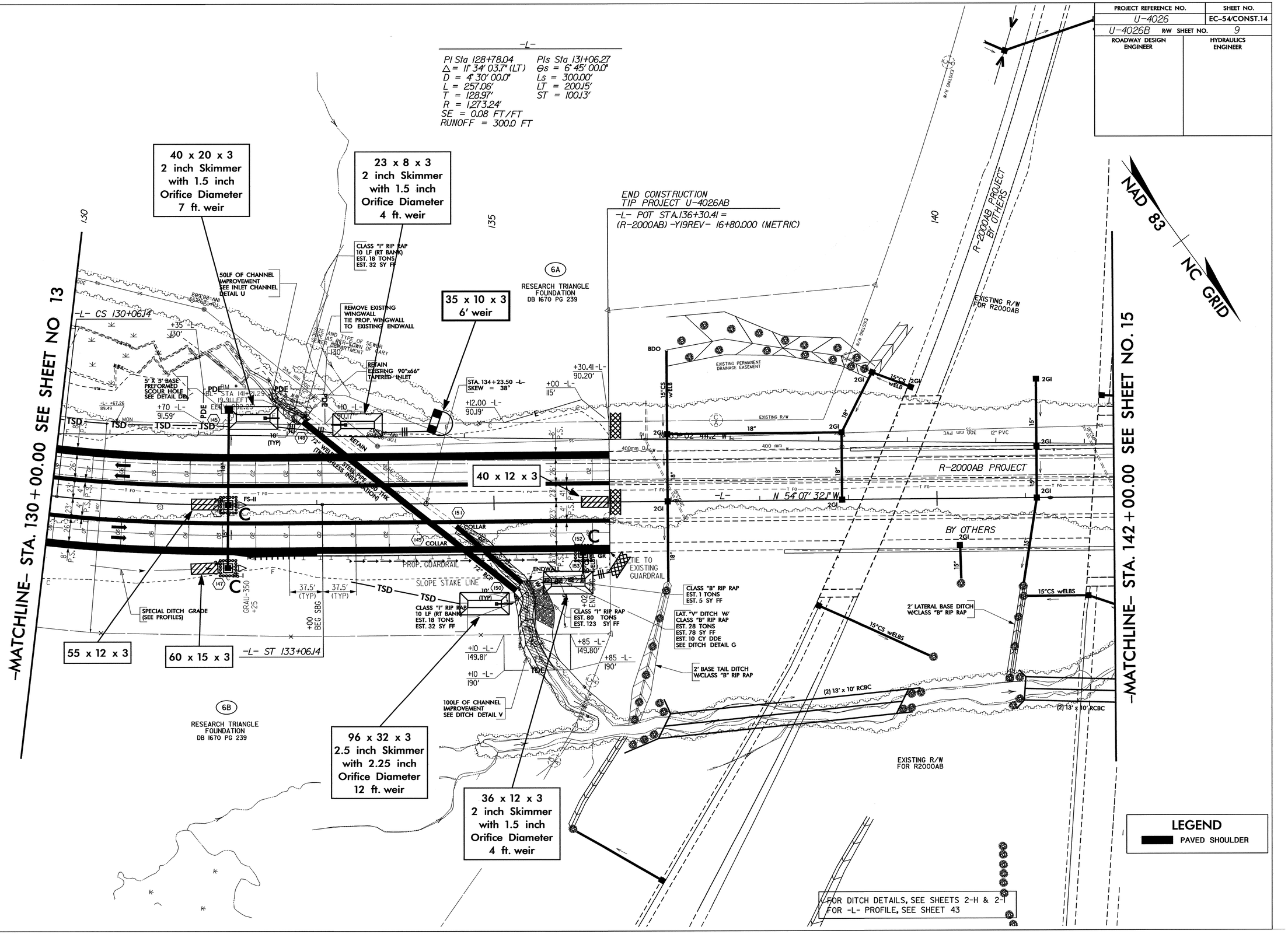
PIs Sta 117+74.37
Θs = 6° 45' 00.0"
Ls = 300.00'
LT = 200.15'
ST = 100.13'

PI Sta 119+28.69
Δ = 4° 53' 58.6" (RT)
D = 4° 30' 00.0"
L = 108.88'
T = 54.47'
R = 1,273.24'
SE = 0.08 FT/FT

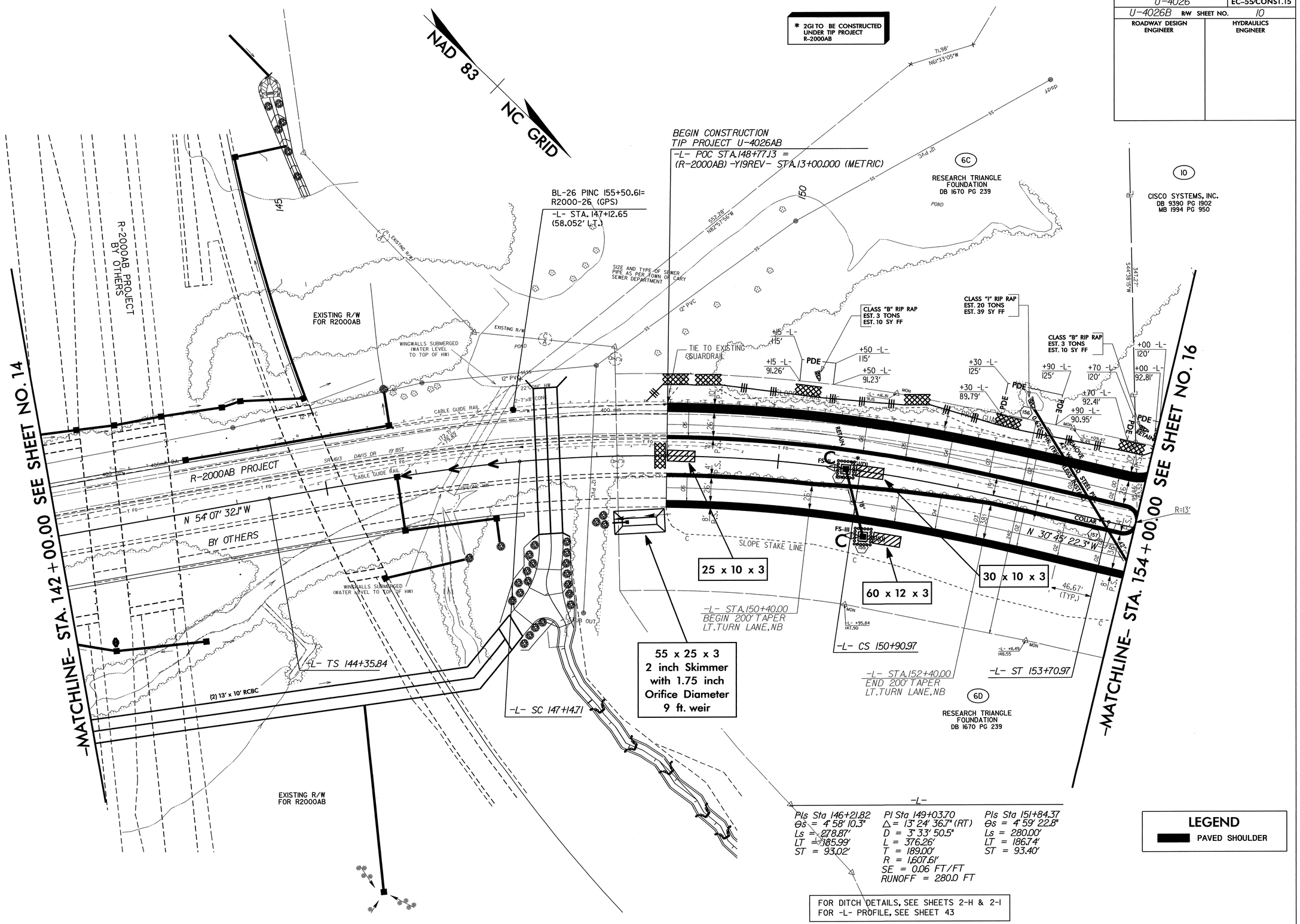
PIs Sta 120+83.23
Θs = 6° 45' 00.0"
Ls = 300.00'
LT = 200.15'
ST = 100.13'

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 42

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-54/CONST.14
U-4026B R/W SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-55/CONST.15
U-4026B R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



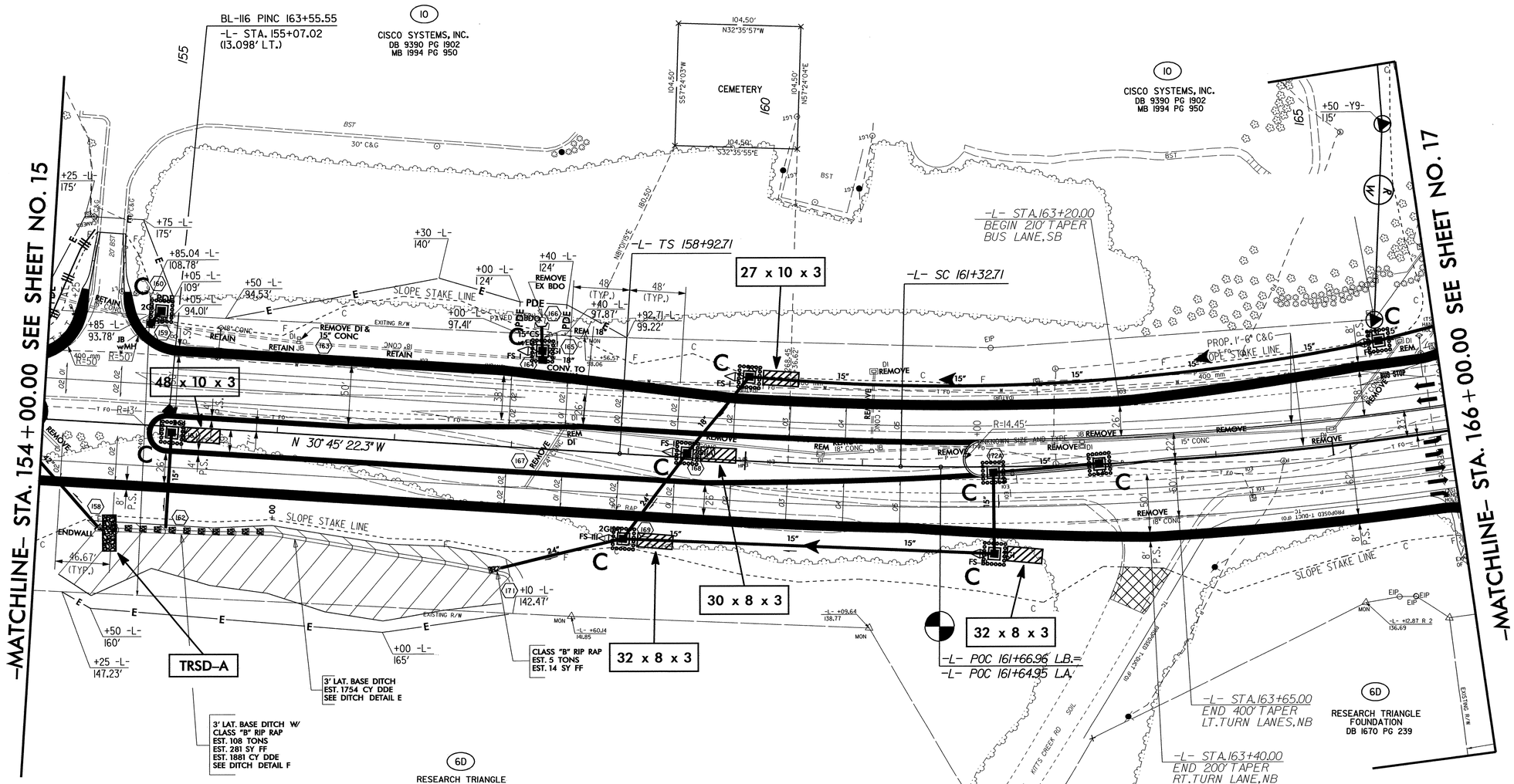
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-56/CONST.16
U-4026B R/W SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83 / NC GRID

-L-

PIs Sta 160+52.73	PI Sta 161+49.84	PI Sta 165+33.95
Θs = 2° 24' 00.0"	Δ = 0° 41' 05.9" (LT)	Δ = 14° 40' 45.7" (LT)
Ls = 240.00'	D = 2° 00' 00.0"	D = 2° 00' 00.0"
LT = 160.01'	L = 34.25'	L = 733.97'
ST = 80.01'	T = 17.12'	T = 369.00'
	R = 2,864.79'	R = 2,864.79'

SE = 0.05 FT/FT
RUNOFF = 240.0 FT



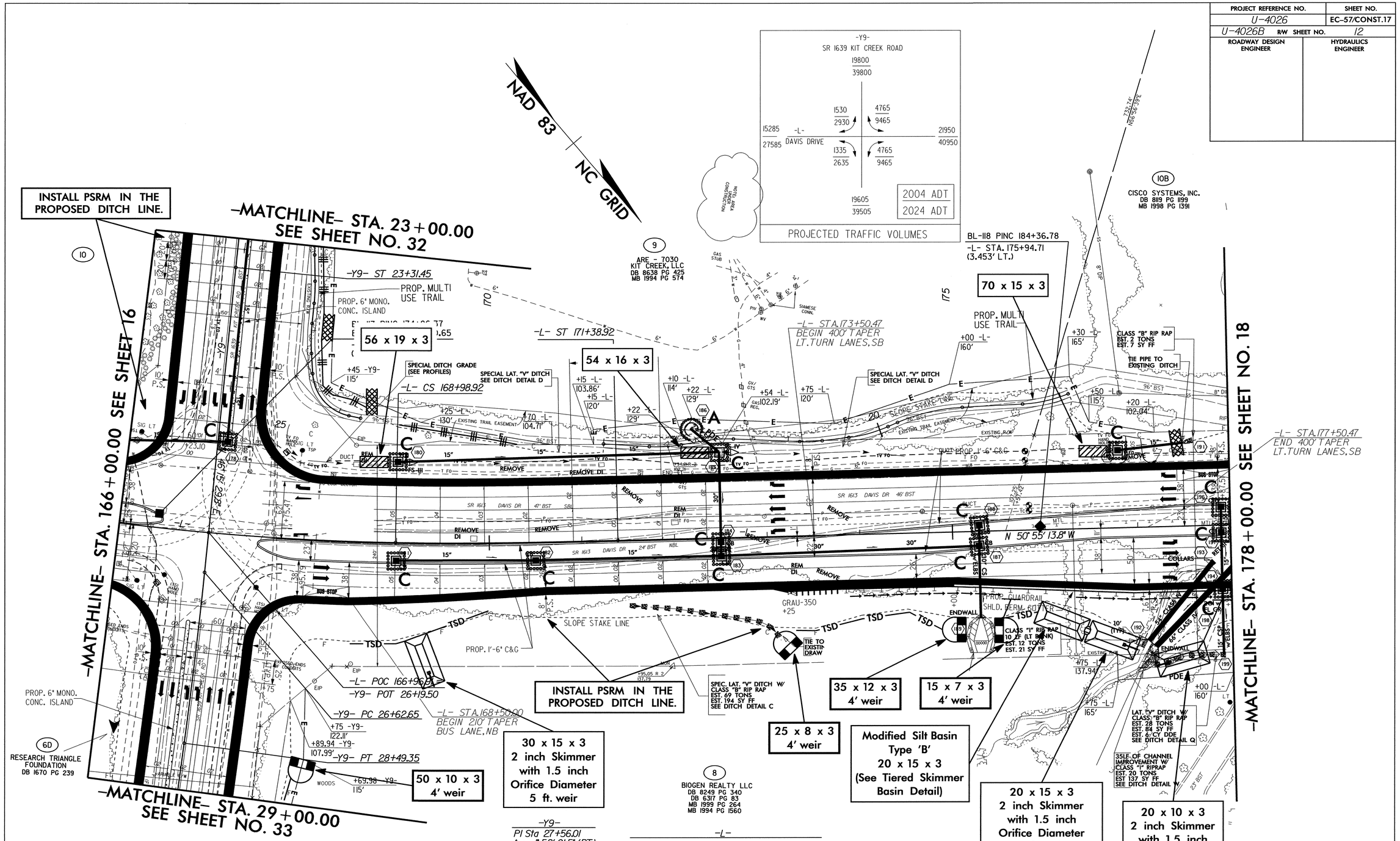
LEGEND

- PAVED SHOULDER
- PAVEMENT REMOVAL

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 44

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-57/CONST.17
U-4026B R/W SHEET NO.	12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y9-

PI Sta 27+56.01
△ = 1° 52' 01.5" (RT)
D = 1° 00' 00.0"
L = 186.71'
T = 93.36'
R = 5,729.58'
SE = 0.02 FT/FT

-L-

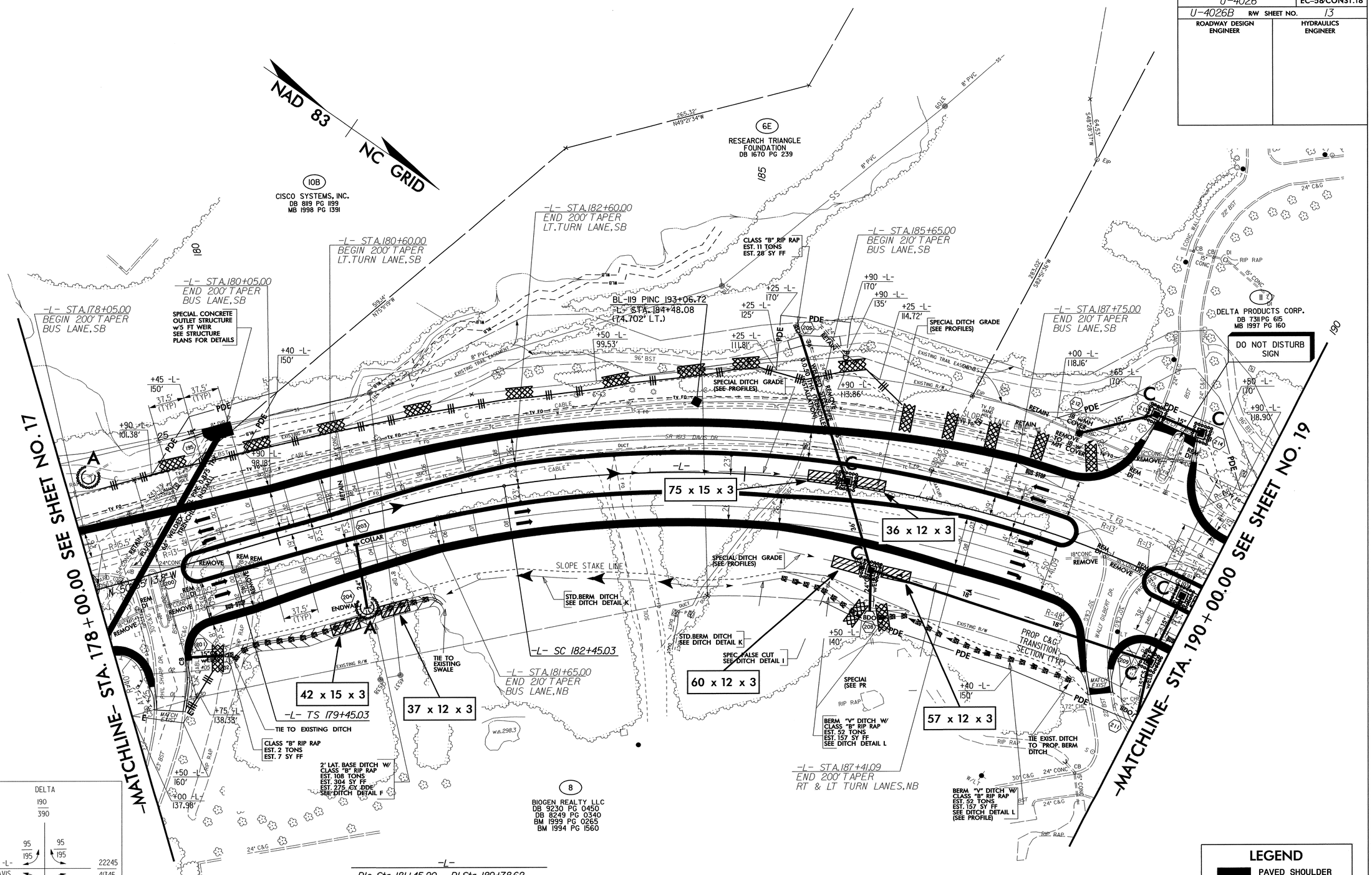
PI Sta 165+33.95
△ = 14° 40' 45.6" (LT)
D = 2° 00' 00.0"
L = 733.97'
T = 369.00'
R = 2,864.79'
SE = 0.05 FT/FT
RUNOFF = 240.0 FT

PIs Sta 169+78.93
Θs = 2° 24' 00.0"
Ls = 240.00'
LT = 160.01'
ST = 80.01'

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H& 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-K
FOR TRAIL PLANS, SEE SHEETS 2-O THRU 2-P
FOR ROCK INLET SILL DETAIL, SEE SHEET 2-DD
FOR -L- PROFILE, SEE SHEET 44
FOR -Y9- PROFILE, SEE SHEET 54

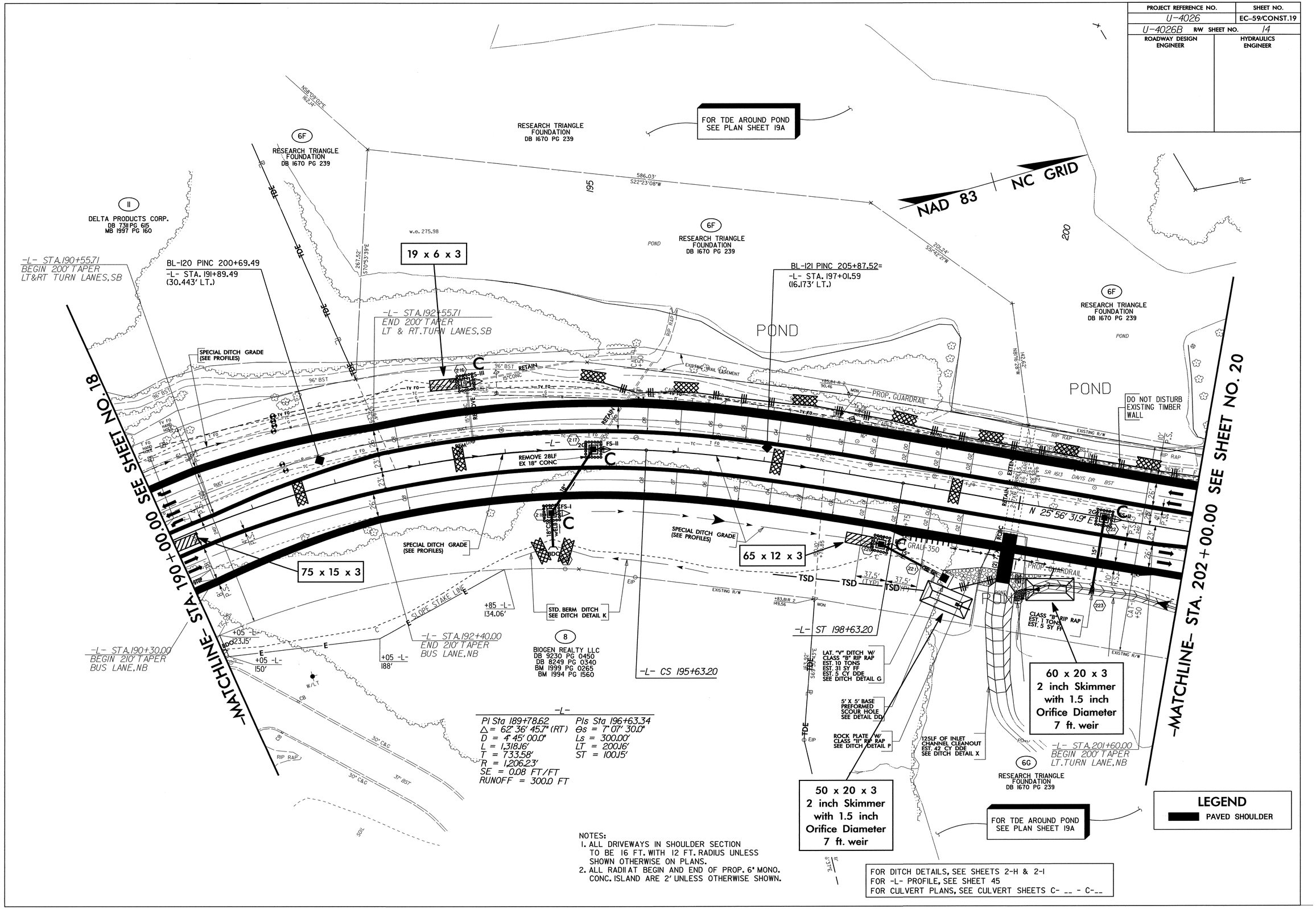
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-58/CONST.18
U-4026B R/W SHEET NO. 13	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



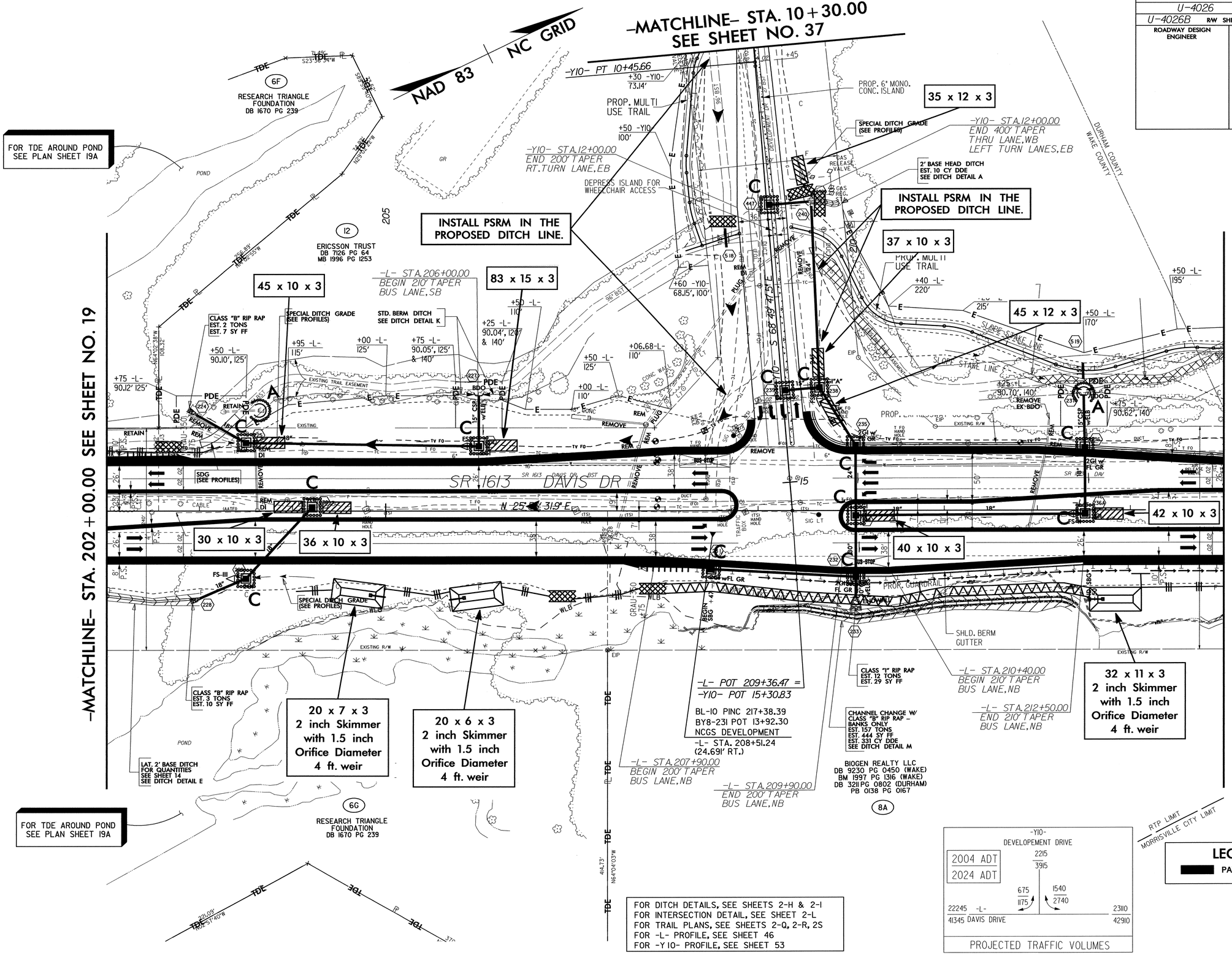
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 45

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-59/CONST.19
U-4026B R/W SHEET NO. 14	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

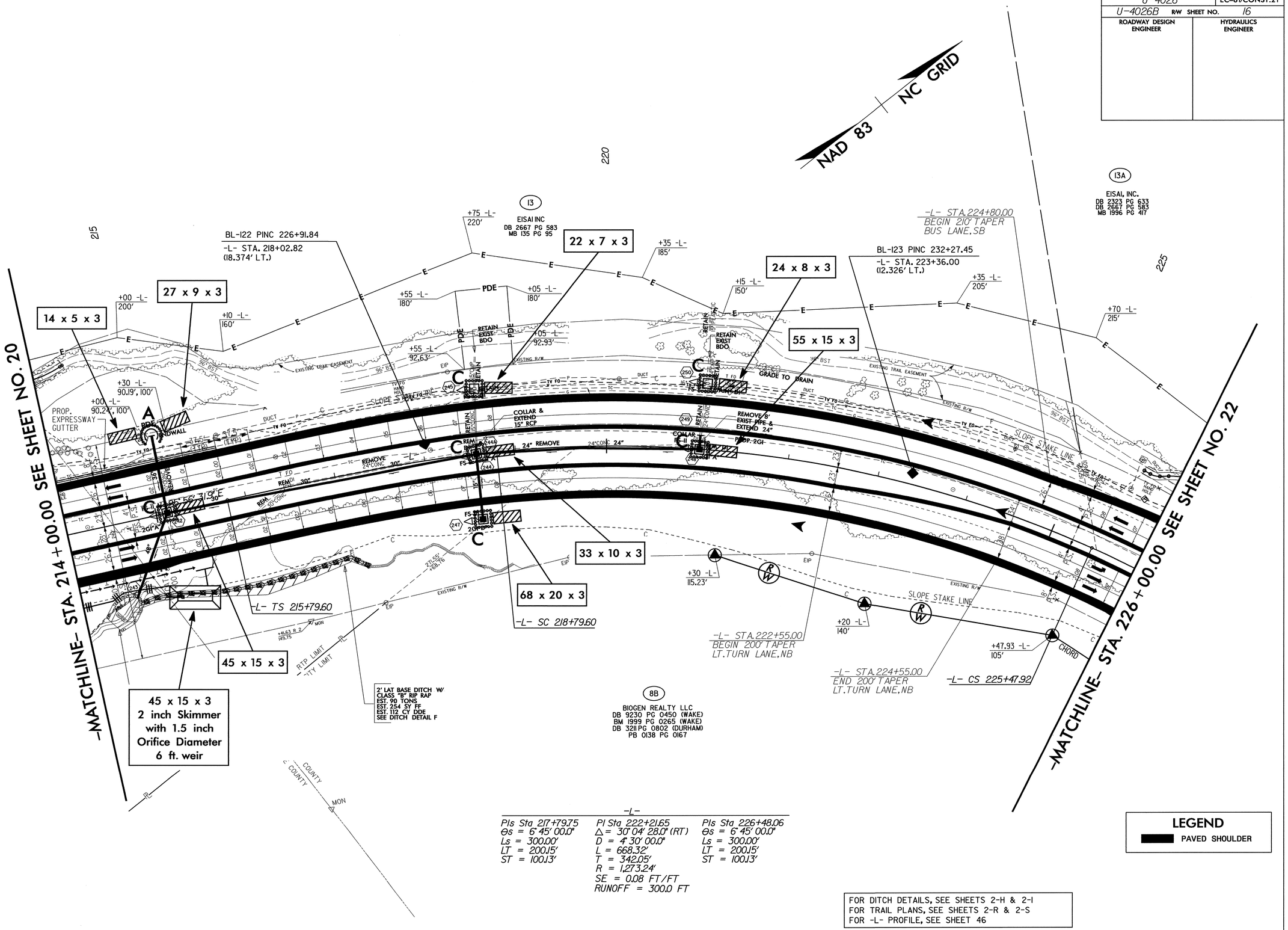


PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-60/CONST.20
U-4026B R/W SHEET NO.	15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR TRAIL PLANS, SEE SHEETS 2-Q, 2-R, 2S
FOR -L- PROFILE, SEE SHEET 46
FOR -Y10- PROFILE, SEE SHEET 53

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-61/CONST.21
U-4026B R/W SHEET NO. 16	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-

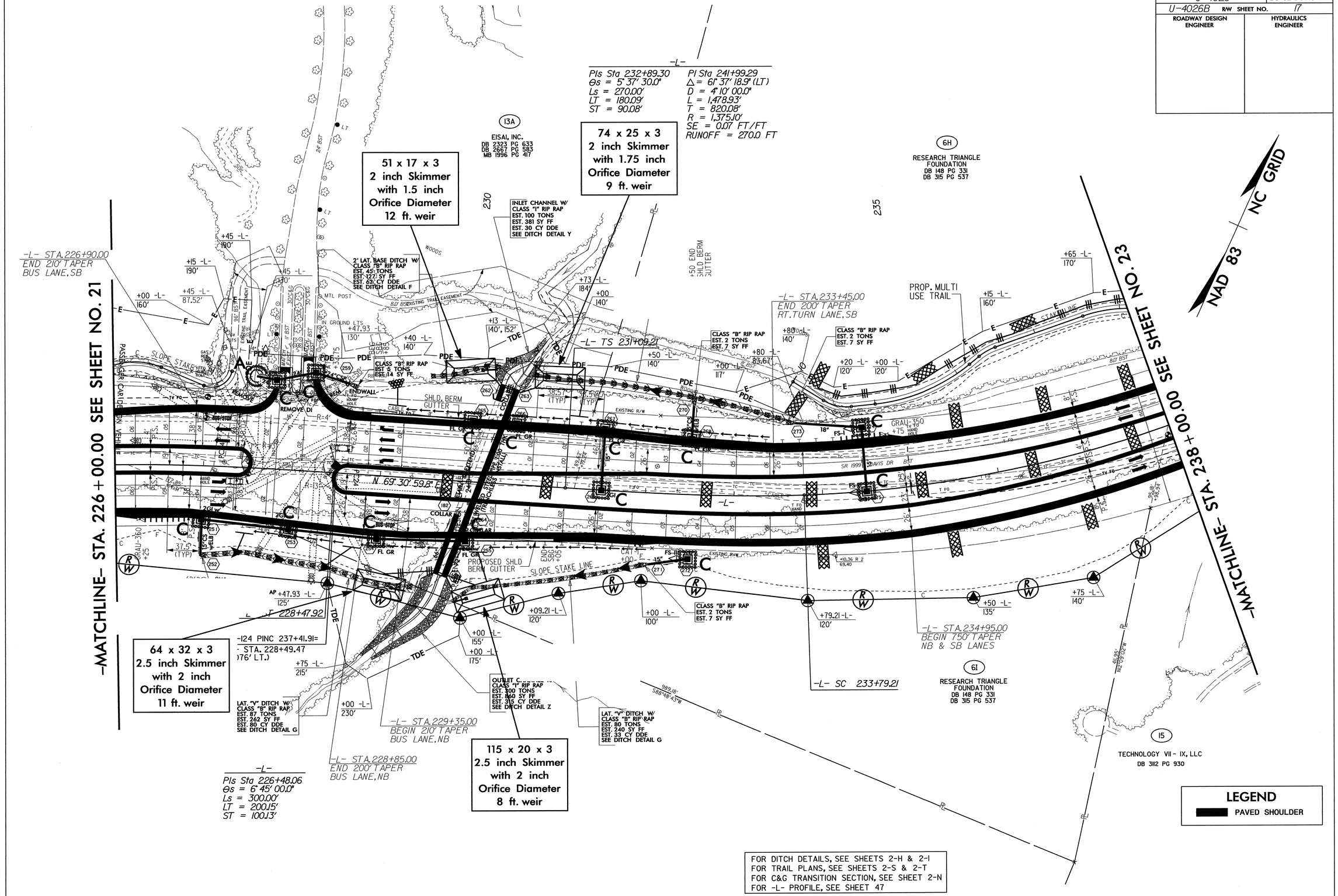
PIs Sta 217+79.75	PI Sta 222+21.65	PIs Sta 226+48.06
Θs = 6° 45' 00.0"	Δ = 30° 04' 28.0" (RT)	Θs = 6° 45' 00.0"
Ls = 300.00'	D = 4° 30' 00.0"	Ls = 300.00'
LT = 200.15'	L = 668.32'	LT = 200.15'
ST = 100.13'	T = 342.05'	ST = 100.13'
	R = 1,273.24'	
	SE = 0.08 FT/FT	
	RUNOFF = 300.0 FT	

LEGEND

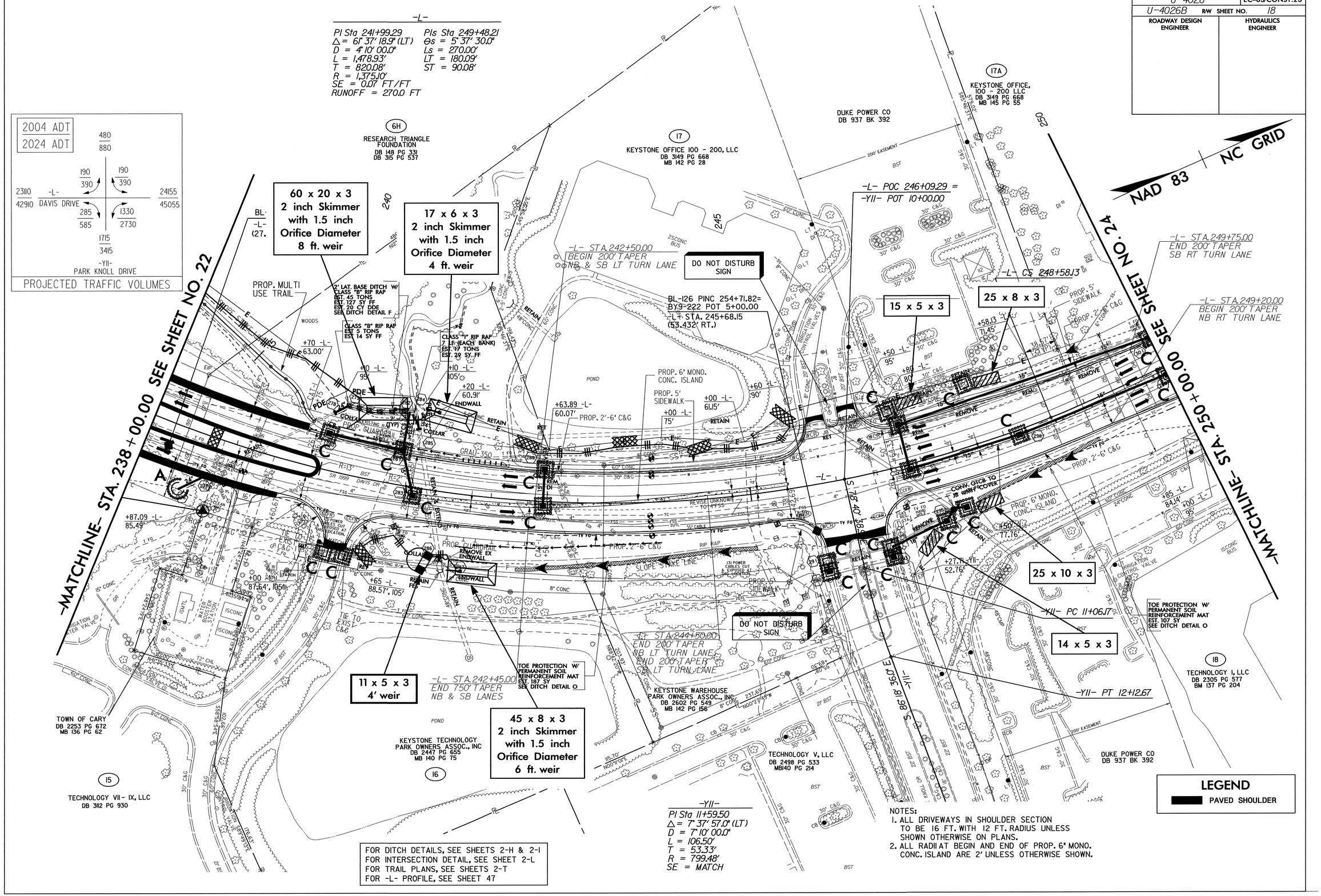
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEETS 2-R & 2-S
FOR -L- PROFILE, SEE SHEET 46

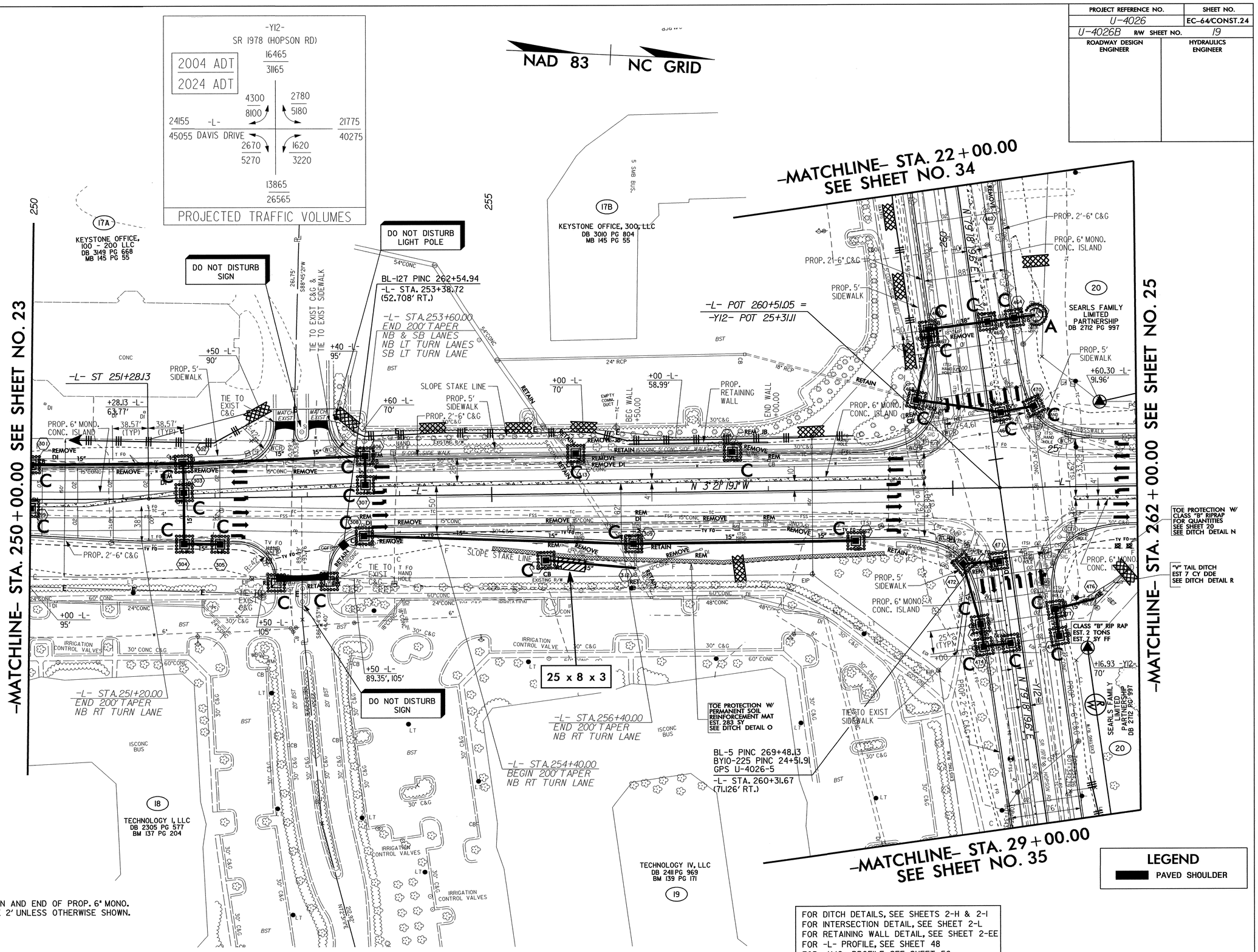
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-62/CONST.22
U-4026B R/W SHEET NO.	17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-63/CONST.23
U-4026B R/W SHEET NO. 18	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-64/CONST.24
U-4026B R/W SHEET NO.	19
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



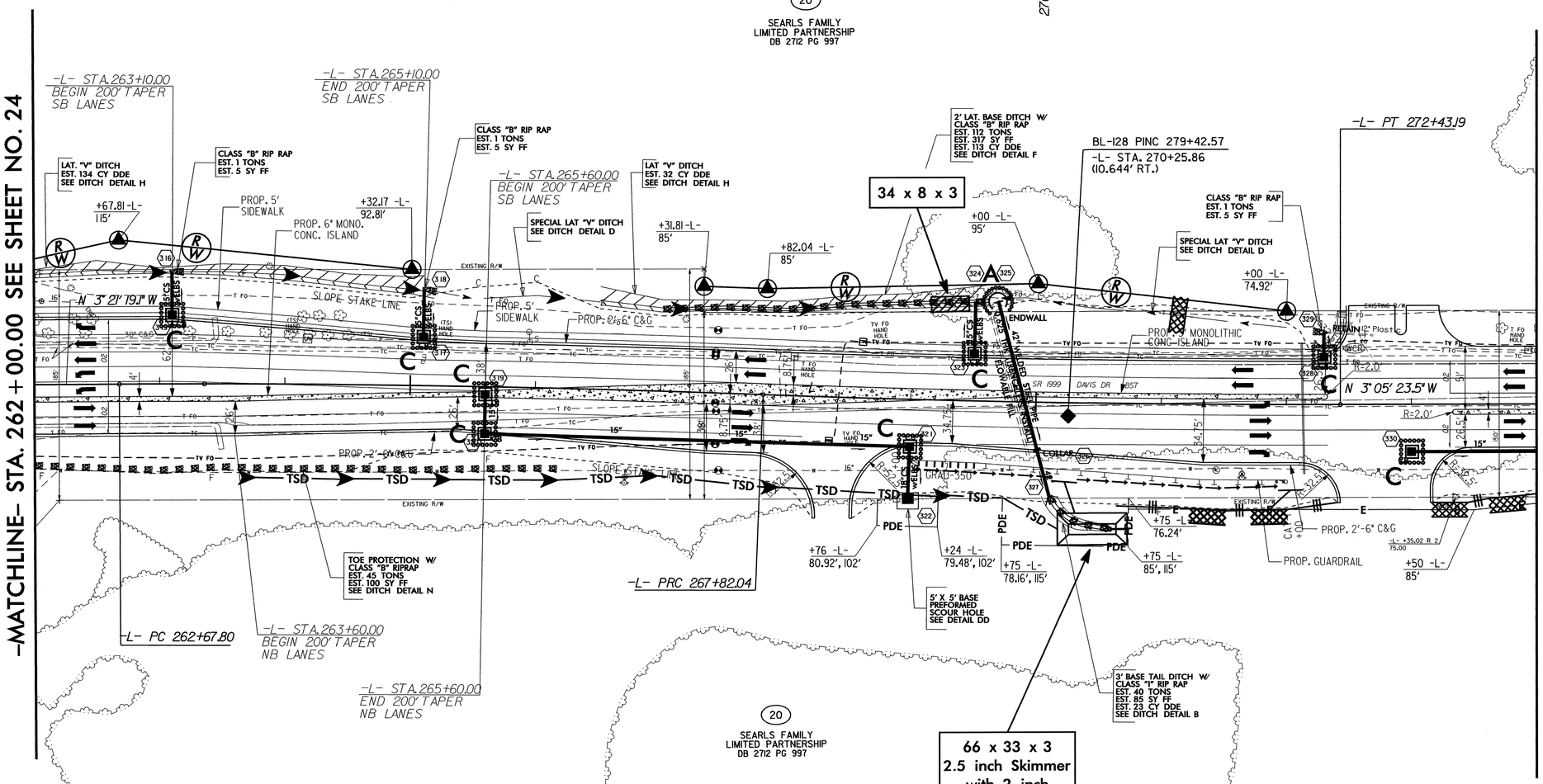
NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR RETAINING WALL DETAIL, SEE SHEET 2-EE
FOR -L- PROFILE, SEE SHEET 48
FOR -Y12- PROFILE, SEE SHEET 56

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-65/CONST.25
U-4026B R/W SHEET NO.	20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83 | NC GRID

-L-
PI Sta 270+12.65
Δ = 2° 18' 20.7" (LT)
D = 0° 30' 00.0"
L = 461.15'
T = 230.61'
R = 11,459.16'
SE = 0.02 FT/FT



-L-
PI Sta 265+24.97
Δ = 2° 34' 16.3" (RT)
D = 0° 30' 00.0"
L = 514.24'
T = 257.16'
R = 11,459.16'
SE = 0.02 FT/FT

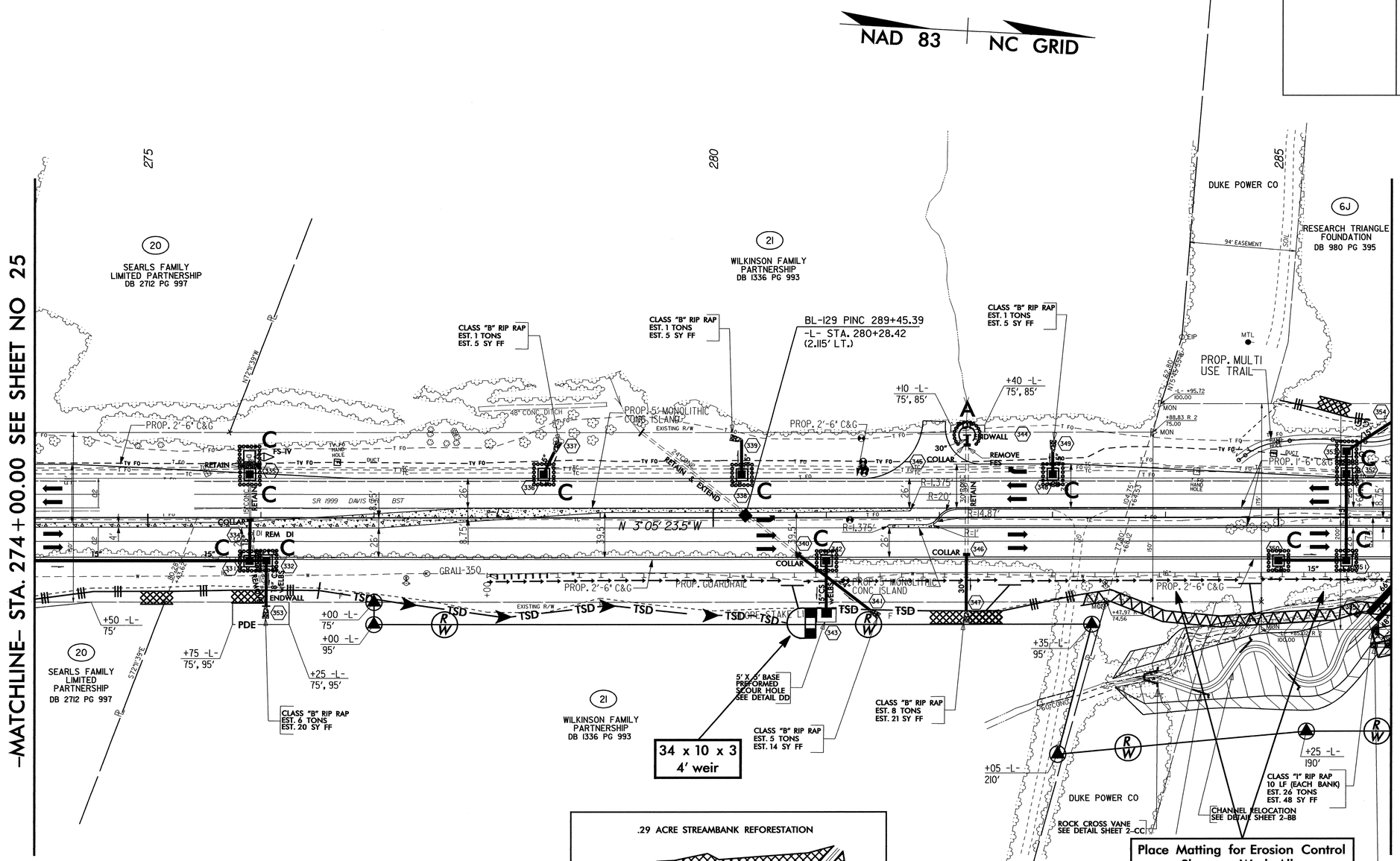
LEGEND

PAVED SHOULDER

NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 48

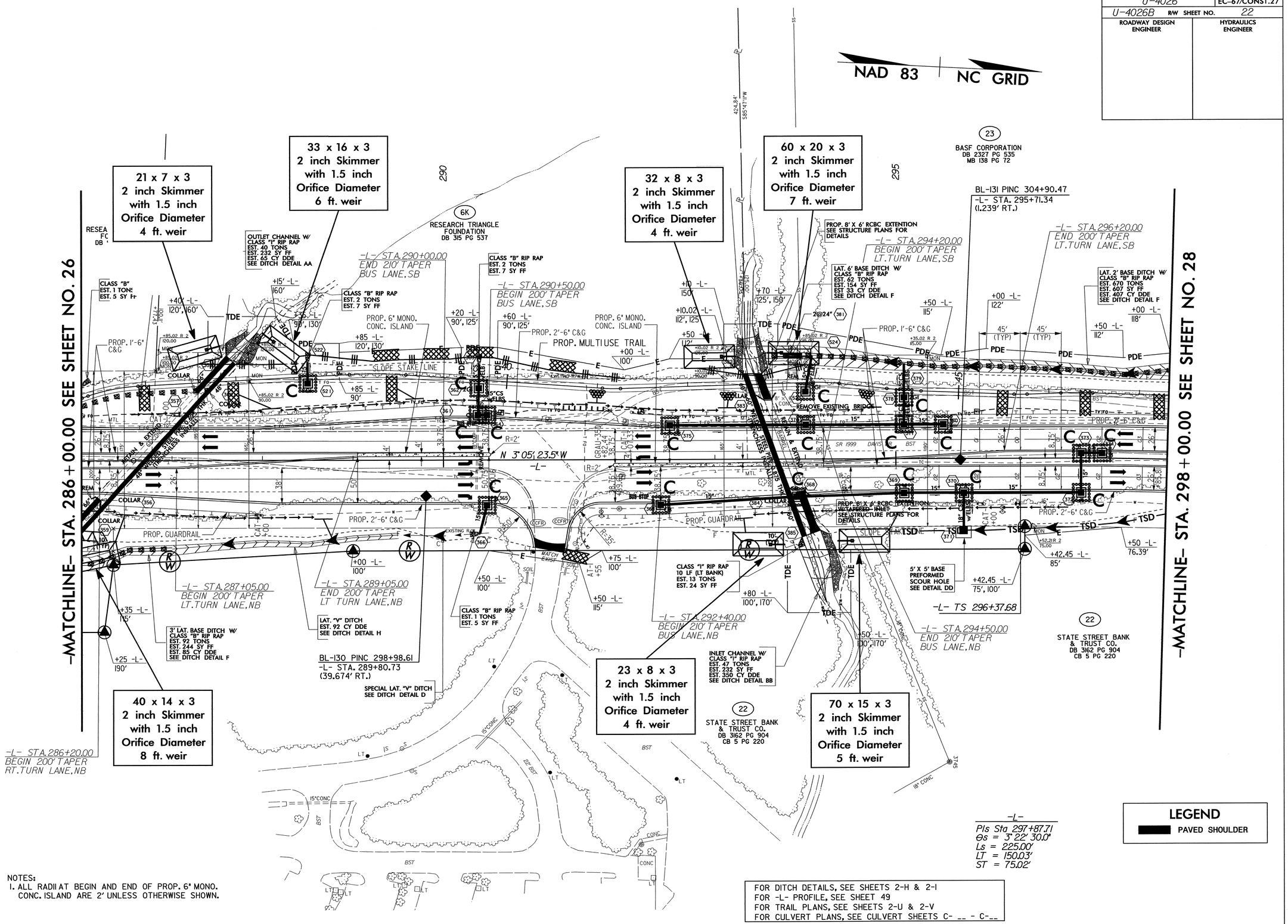
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-66/CONST.26
U-4026B R/W SHEET NO. 21	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEET 2-U
FOR CHANNEL RELOCATION, SEE SHEET 2-BB
FOR ROCK CROSS VANE DETAIL, SEE SHEET 2-CC
FOR ROCK VANE DETAIL, SEE SHEET 2-DD
FOR -L- PROFILE, SEE SHEET 49

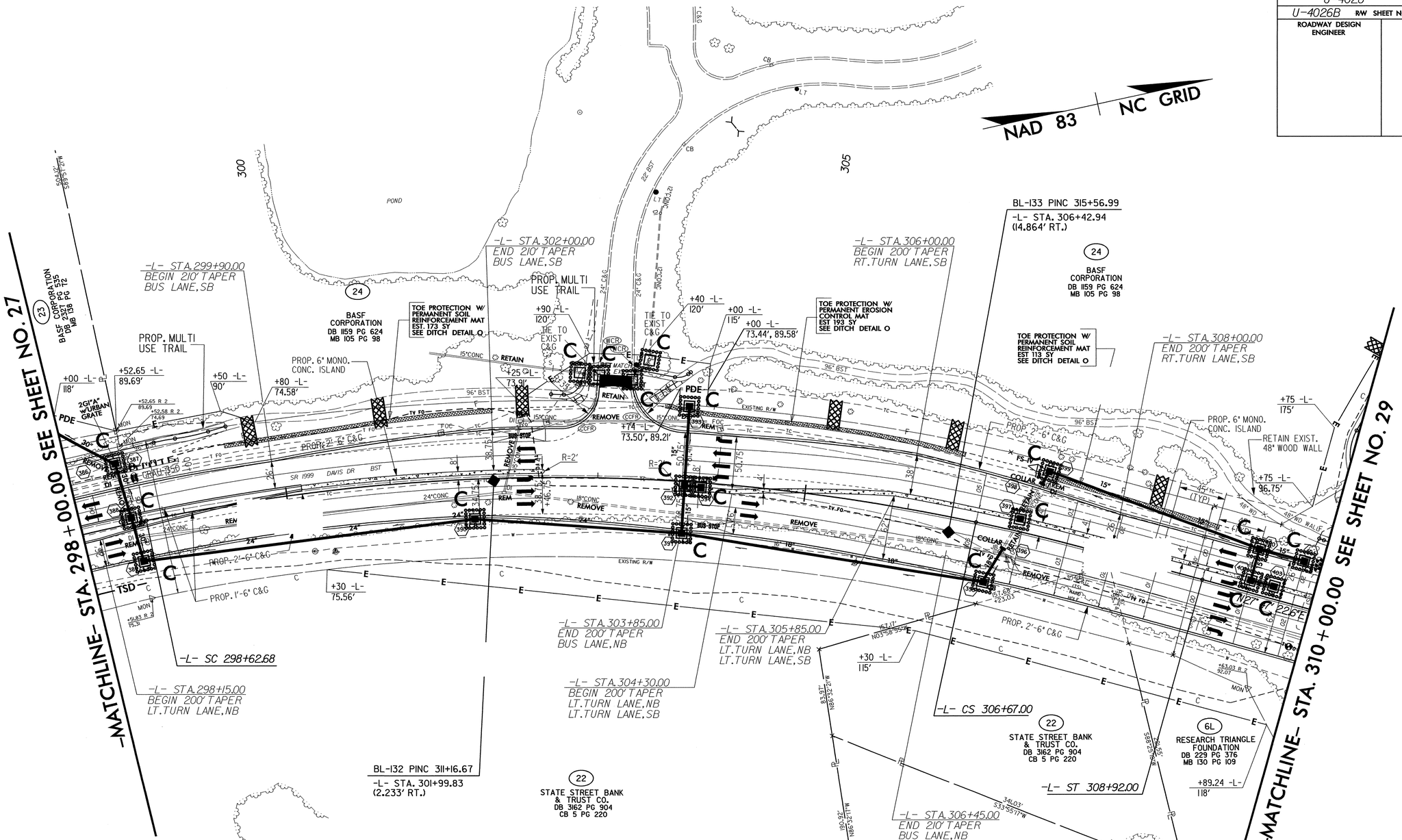
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-67/CONST.27
U-4026B R/W SHEET NO.	22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR -L- PROFILE, SEE SHEET 49
FOR TRAIL PLANS, SEE SHEETS 2-U & 2-V
FOR CULVERT PLANS, SEE CULVERT SHEETS C- __ - C-__

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-68/CONST.28
U-4026B R/W SHEET NO. 23	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



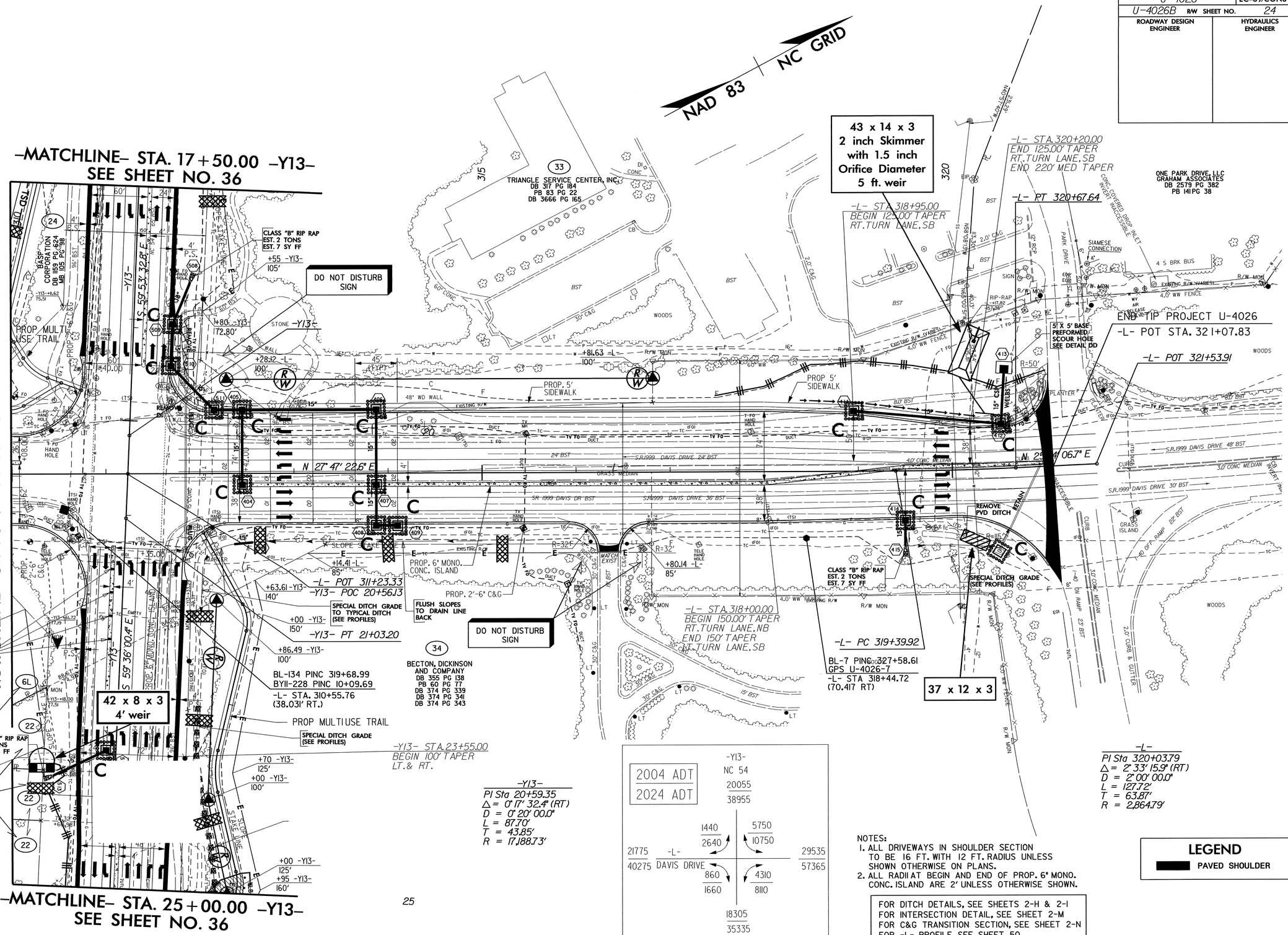
-L-

PIs Sta 297+87.71	PI Sta 265+24.97	PIs Sta 307+42.02
Θs = 3° 22' 30.0"	Δ = 2° 34' 16.3" (RT)	Θs = 3° 22' 30.0"
Ls = 225.00'	D = 0° 30' 00.0"	Ls = 225.00'
LT = 150.03'	L = 514.24'	LT = 150.03'
ST = 75.02'	T = 257.16'	ST = 75.02'
	R = 11,459.16'	
	SE = 0.02 FT/FT	

NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR TRAIL PLANS, SEE SHEETS 2-V & 2-W
FOR -L- PROFILE, SEE SHEET 50

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-69/CONST.29
U-4026B R/W SHEET NO.	24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

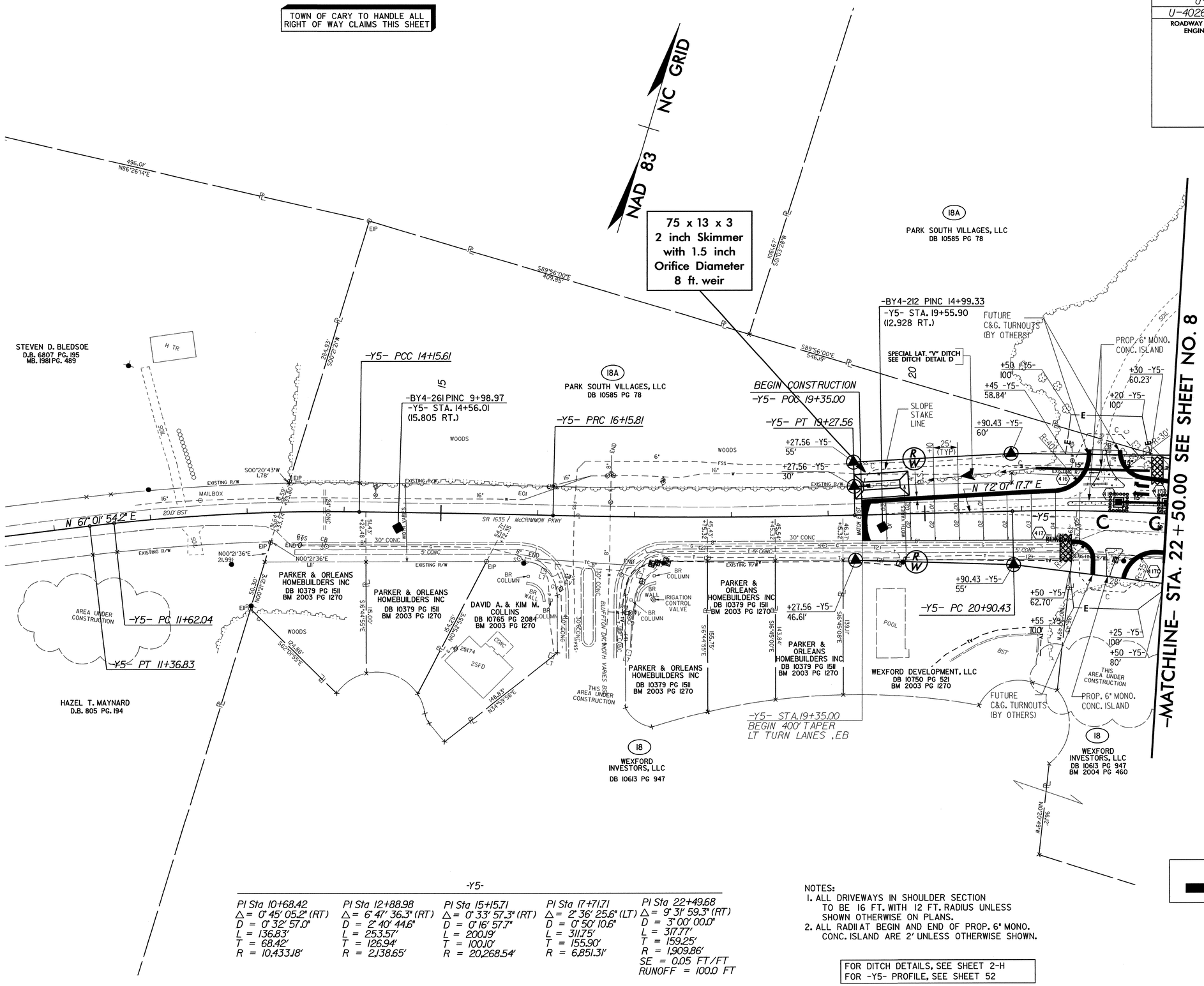


NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-M
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -L- PROFILE, SEE SHEET 50
FOR -Y13- PROFILE, SEE SHEET 57
FOR TRAIL PLANS SEE 2-W & 2-X

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-70/CONST.30
U-4026A R/W SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



-Y5-

PI Sta 10+68.42	PI Sta 12+88.98	PI Sta 15+15.71	PI Sta 17+71.71	PI Sta 22+49.68
Δ = 0° 45' 05.2" (RT)	Δ = 6° 47' 36.3" (RT)	Δ = 0° 33' 57.3" (RT)	Δ = 2° 36' 25.6" (LT)	Δ = 9° 31' 59.3" (RT)
D = 0° 32' 57.0"	D = 2° 40' 44.6"	D = 0° 16' 57.7"	D = 0° 50' 10.6"	D = 3° 00' 00.0"
L = 136.83'	L = 253.57'	L = 200.19'	L = 311.75'	L = 317.77'
T = 68.42'	T = 126.94'	T = 100.10'	T = 155.90'	T = 159.25'
R = 10,433.18'	R = 2,138.65'	R = 20,268.54'	R = 6,851.31'	R = 1,909.86'
				SE = 0.05 FT/FT
				RUNOFF = 100.0 FT

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

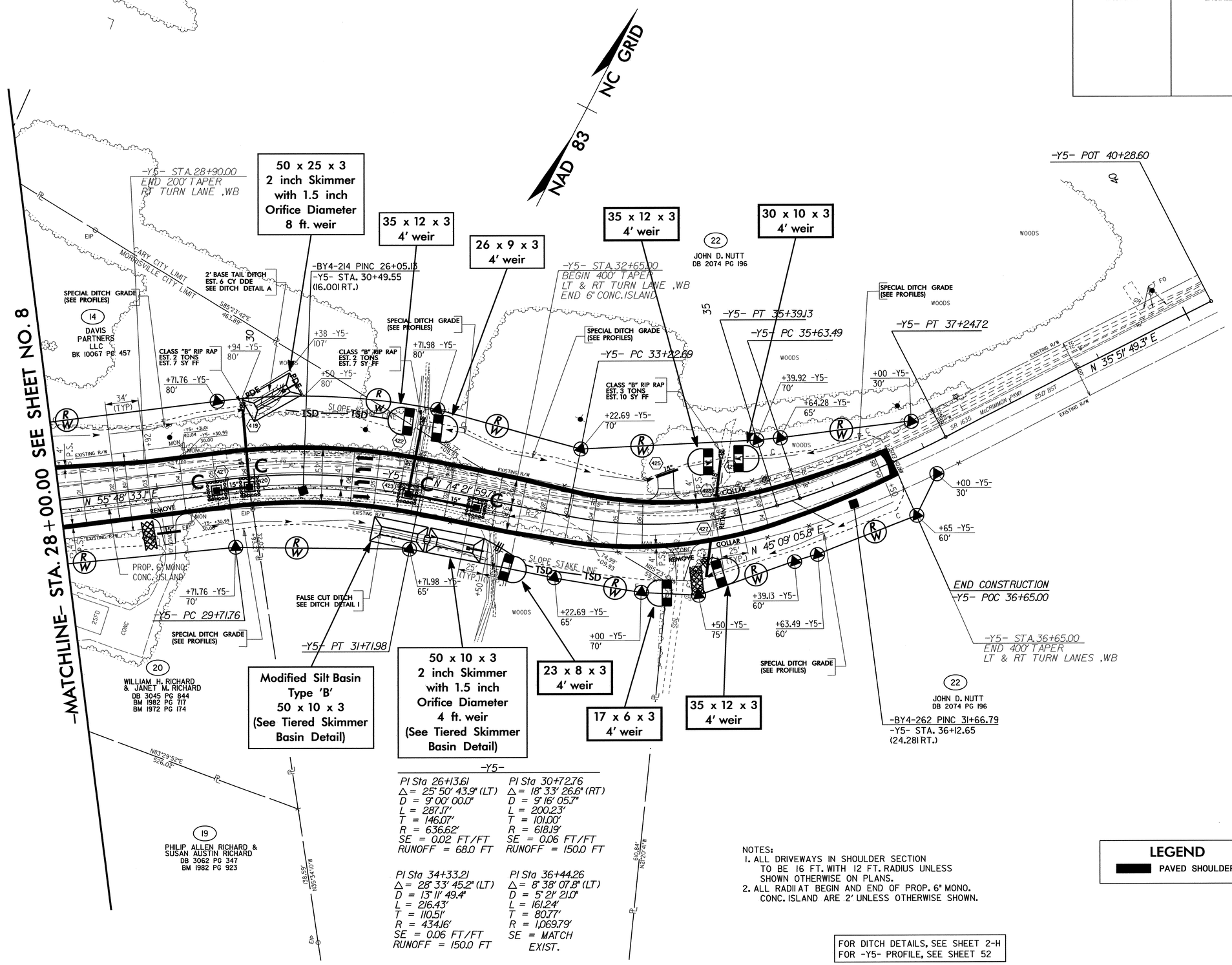
FOR DITCH DETAILS, SEE SHEET 2-H
FOR -Y5- PROFILE, SEE SHEET 52

LEGEND

PAVED SHOULDER

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-71/CONST.31
U-4026A R/W SHEET NO.	12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TOWN OF CARY TO HANDLE ALL RIGHT OF WAY CLAIMS THIS SHEET



-Y5-

PI Sta 26+13.61	PI Sta 30+72.76
Δ = 25° 50' 43.9" (LT)	Δ = 18° 33' 26.6" (RT)
D = 9° 00' 00.0"	D = 9° 16' 05.7"
L = 287.17'	L = 200.23'
T = 146.07'	T = 101.00'
R = 636.62'	R = 618.19'
SE = 0.02 FT/FT	SE = 0.06 FT/FT
RUNOFF = 68.0 FT	RUNOFF = 150.0 FT
PI Sta 34+33.21	PI Sta 36+44.26
Δ = 28° 33' 45.2" (LT)	Δ = 8° 38' 07.8" (LT)
D = 13° 11' 49.4"	D = 5° 21' 21.0"
L = 216.43'	L = 161.24'
T = 110.51'	T = 80.77'
R = 434.16'	R = 1,069.79'
SE = 0.06 FT/FT	SE = MATCH EXIST.
RUNOFF = 150.0 FT	

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

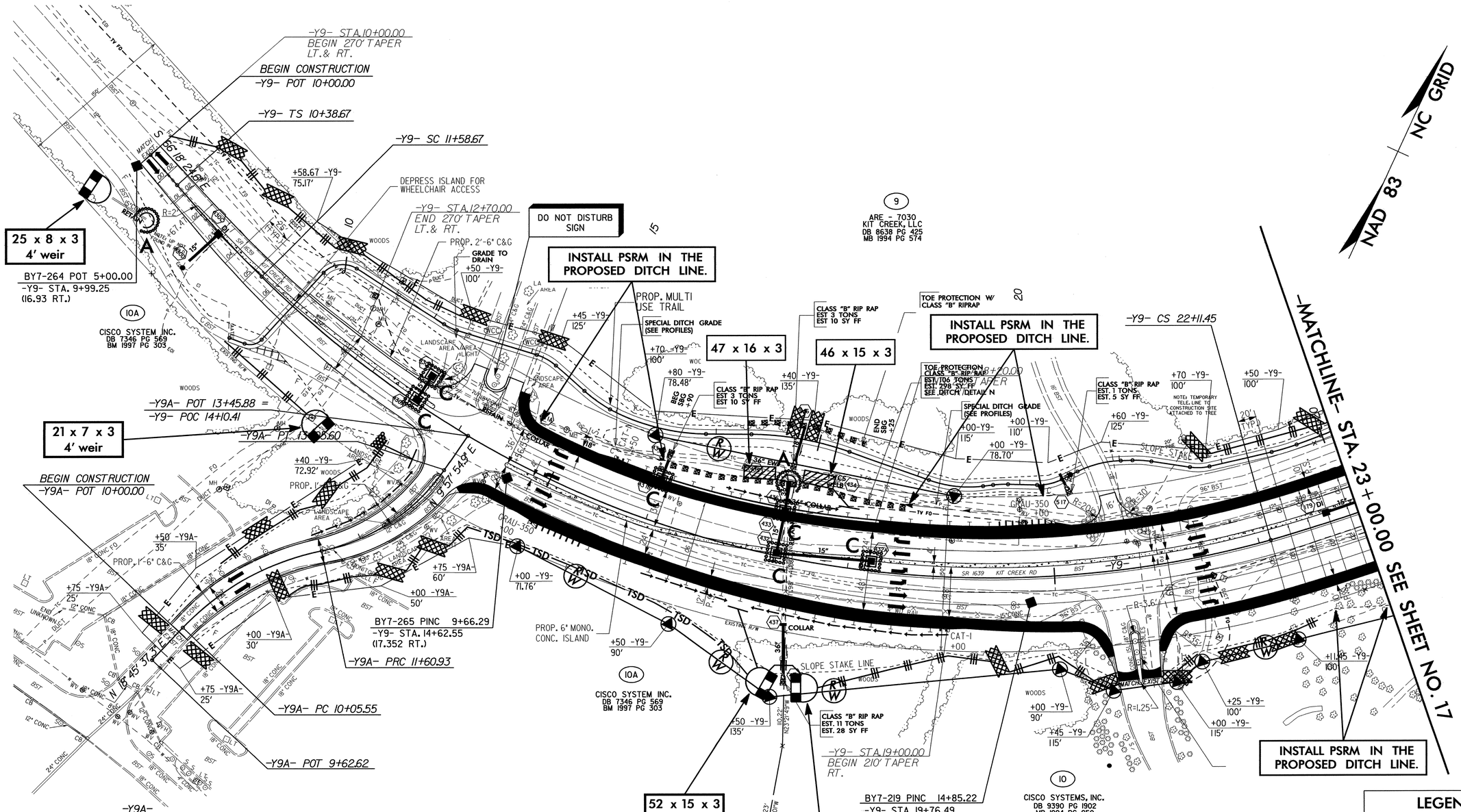
LEGEND
PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEET 2-H
FOR -Y5- PROFILE, SEE SHEET 52

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-72/CONST.32
U-4026B R/W SHEET NO.	25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y9-

PIs Sta 11+18.69	PI Sta 17+40.19	PIs Sta 22+51.46
Θs = 3° 27' 00.0"	Δ = 60° 32' 05.6" (LT)	Θs = 3° 27' 00.0"
Ls = 120.00'	D = 5° 45' 00.0"	Ls = 120.00'
LT = 80.02'	L = 1,052.78'	LT = 80.02'
ST = 40.01'	T = 581.52'	ST = 40.01'
	R = 996.45'	
	SE = 0.06 FT/FT	
	RUNOFF = 120.0 FT	



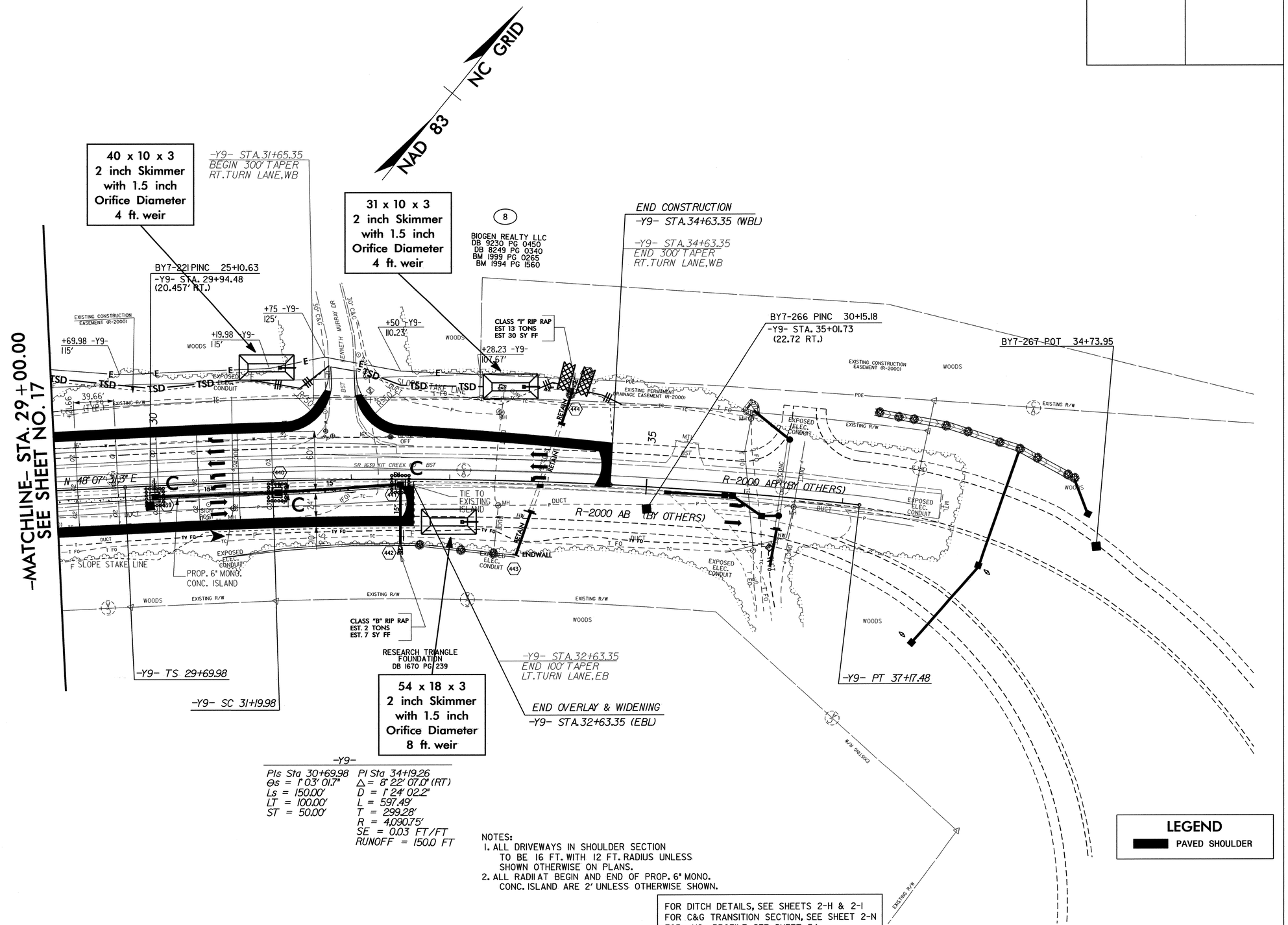
NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND

PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR INTERSECTION DETAIL, SEE SHEET 2-L
FOR TRAIL PLAN, SEE SHEET 2-O
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y9- PROFILE, SEE SHEET 54
FOR -Y9A- PROFILE, SEE SHEET 55

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-73/CONST.33
U-4026B R/W SHEET NO. 26	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



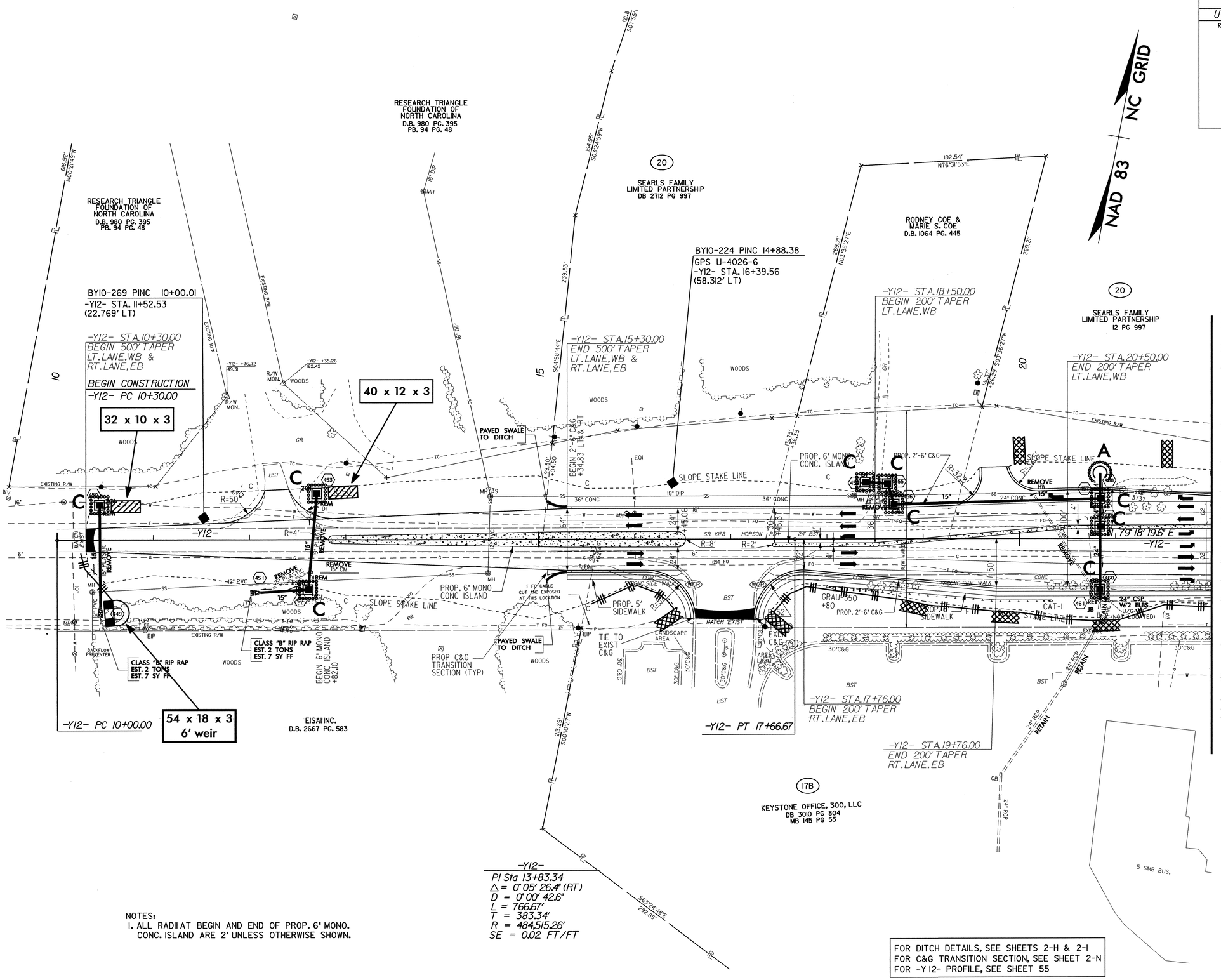
-Y9-

PIs Sta 30+69.98	PI Sta 34+19.26
Θs = 1° 03' 01.7"	Δ = 8° 22' 07.0" (RT)
Ls = 150.00'	D = 1° 24' 02.2"
LT = 100.00'	L = 597.49'
ST = 50.00'	T = 299.28'
	R = 4,090.75'
	SE = 0.03 FT/FT
	RUNOFF = 150.0 FT

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y9- PROFILE, SEE SHEET 54

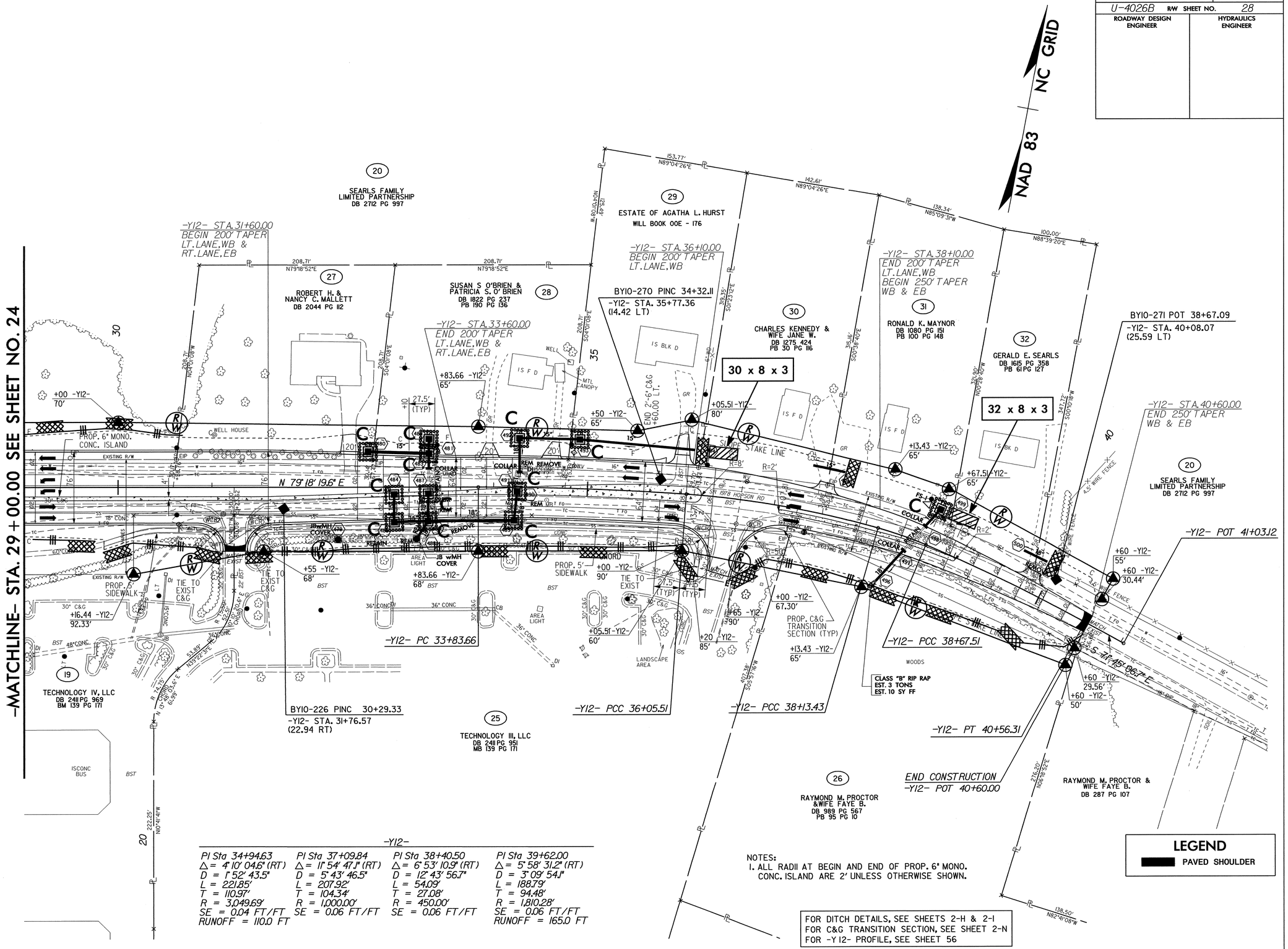
PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-74/CONST.34
U-4026B R/W SHEET NO. 27	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y12- PROFILE, SEE SHEET 55

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-75/CONST.35
U-4026B R/W SHEET NO. 28	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



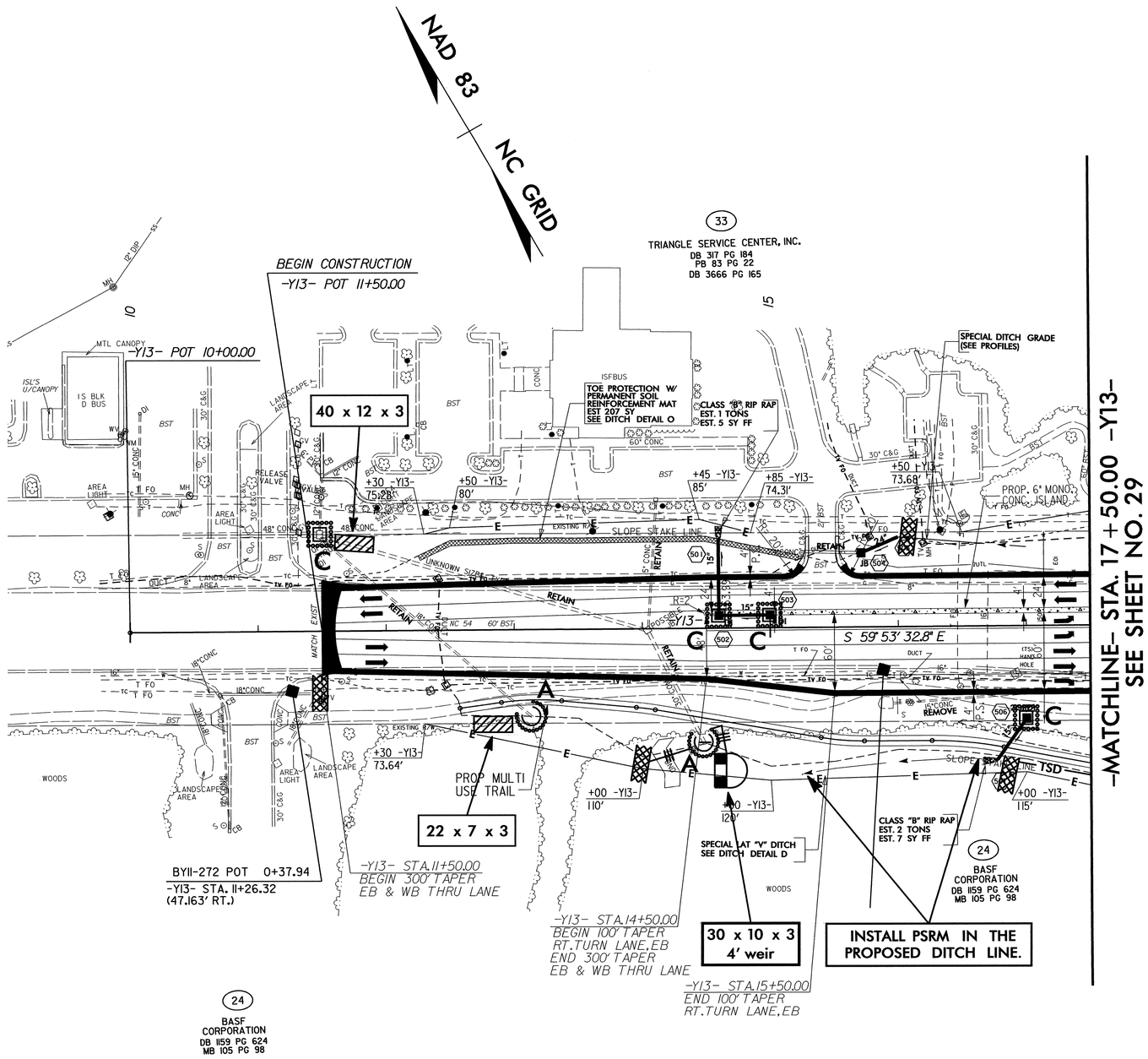
-Y12-

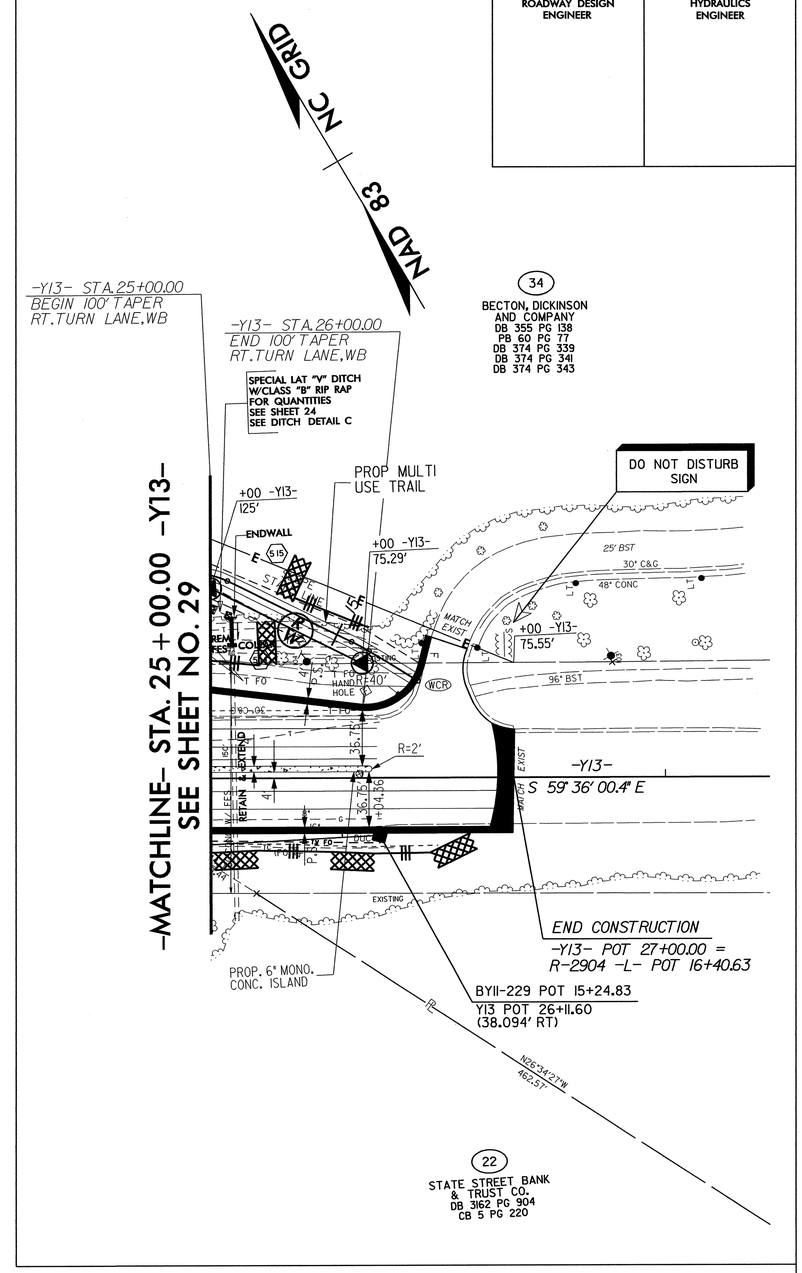
PI Sta 34+94.63	PI Sta 37+09.84	PI Sta 38+40.50	PI Sta 39+62.00
Δ = 4° 10' 04.6" (RT)	Δ = 11° 54' 47.1" (RT)	Δ = 6° 53' 10.9" (RT)	Δ = 5° 58' 31.2" (RT)
D = 1° 52' 43.5"	D = 5° 43' 46.5"	D = 12° 43' 56.7"	D = 3° 09' 54.1"
L = 221.85'	L = 207.92'	L = 54.09'	L = 188.79'
T = 110.97'	T = 104.34'	T = 27.08'	T = 94.48'
R = 3,049.69'	R = 1,000.00'	R = 450.00'	R = 1,810.28'
SE = 0.04 FT/FT	SE = 0.06 FT/FT	SE = 0.06 FT/FT	SE = 0.06 FT/FT
RUNOFF = 110.0 FT			RUNOFF = 165.0 FT

NOTES:
1. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION SECTION, SEE SHEET 2-N
FOR -Y12- PROFILE, SEE SHEET 56

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-76/CONST.36
U-4026B R/W SHEET NO.	29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



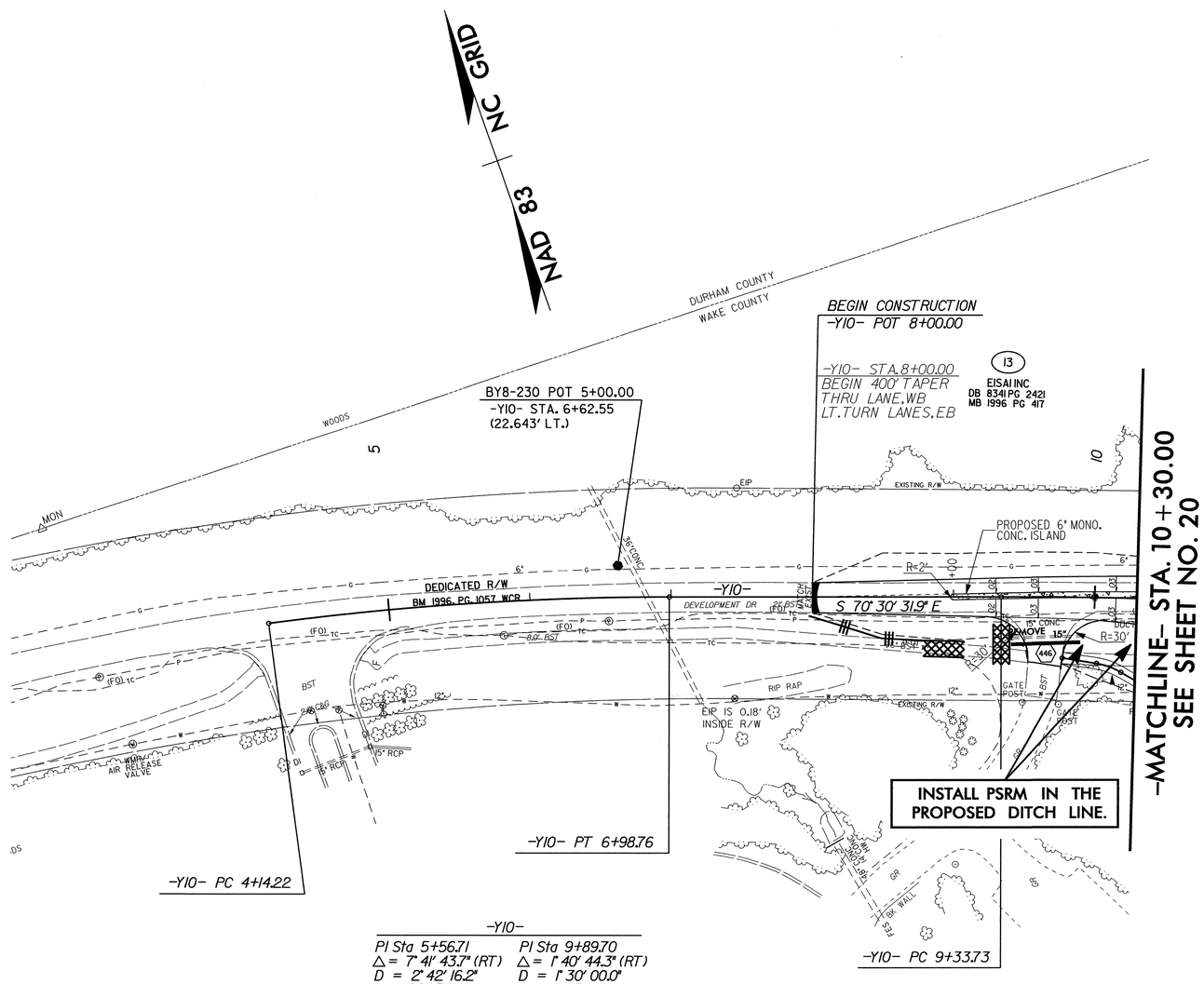


LEGEND

PAVED SHOULDER

FOR DITCH DETAILS, SEE SHEETS 2-H & 2-I
FOR C&G TRANSITION, SEE SHEET 2-N
FOR TRAIL PLANS, SEE SHEETS 2-W & 2-X
FOR -Y13- PROFILE, SEE SHEET 57

PROJECT REFERENCE NO.	SHEET NO.
U-4026	EC-77/CONST.37
U-4026B R/W SHEET NO.	30
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y10-

PI Sta 5+56.71	PI Sta 9+89.70
△ = 7° 41' 43.7" (RT)	△ = 1° 40' 44.3" (RT)
D = 2° 42' 16.2"	D = 1° 30' 00.0"
L = 284.54'	L = 111.93'
T = 142.49'	T = 55.97'
R = 2,118.53'	R = 3,819.72'

NOTES:
1. ALL DRIVEWAYS IN SHOULDER SECTION TO BE 16 FT. WITH 12 FT. RADIUS UNLESS SHOWN OTHERWISE ON PLANS.
2. ALL RADII AT BEGIN AND END OF PROP. 6" MONO. CONC. ISLAND ARE 2' UNLESS OTHERWISE SHOWN.

LEGEND

PAVED SHOULDER

FOR TRAIL PLANS SEE SHEET 2-Q
FOR DITCH DETAILS SEE SHEET 2-H & 2-I
FOR -Y10- PROFILE, SEE SHEET 53