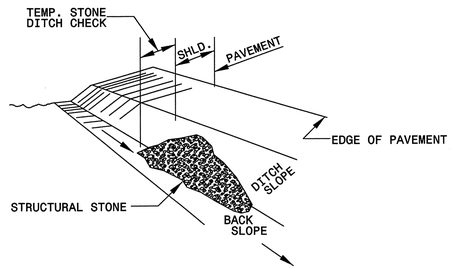
PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-1
R/W SHEET NO.	
	HYDRAULICS ENGINEER

8/17/99

REVISIONS

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

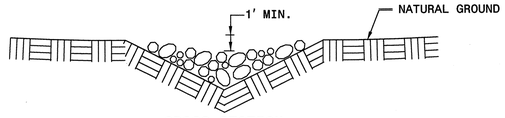


ISOMETRIC VIEW

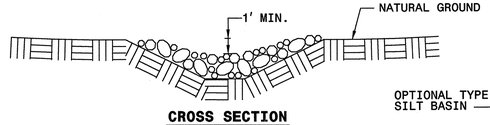
NOTES:

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

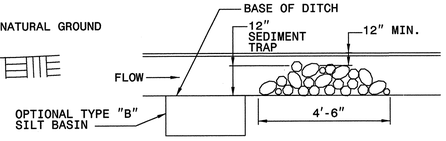
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



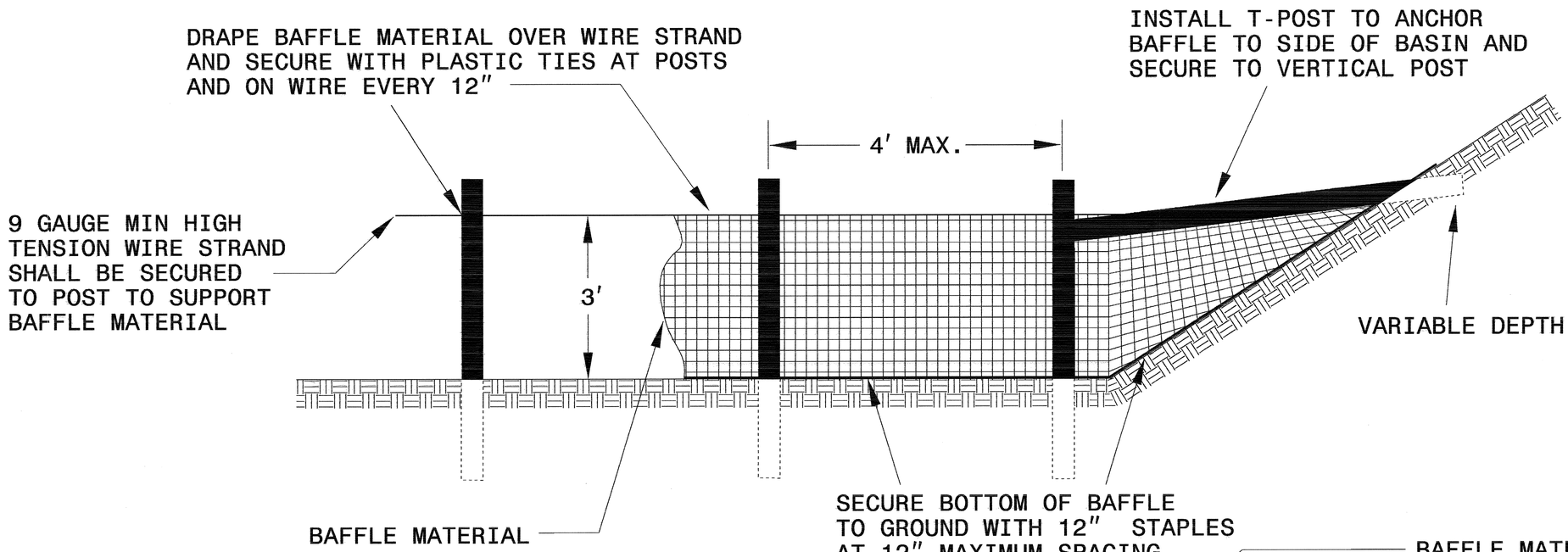
ELEVATION VIEW

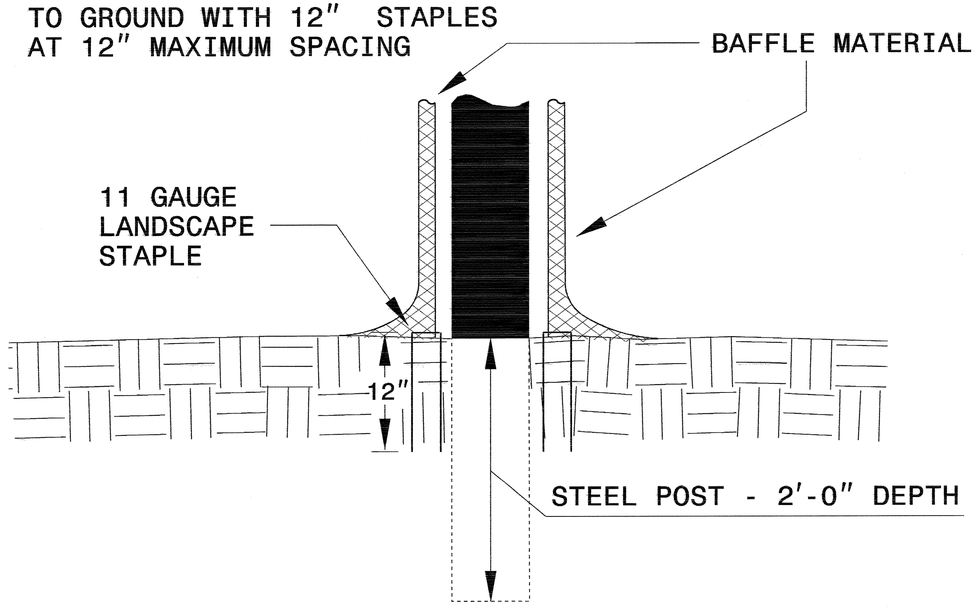
$$$$USERNAME$$$$
$$$$SYSTIME$$$$
$$$$DGN$$$$

\\Prj\15010 EC DETAIL.dgn 5/13/2009 7:41:02 AM

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-1A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL





BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

NOTES:

1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH.

2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-2/CONSTR.4
R/W SHEET NO.	

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY
5.1.09
SEAL NOT VALID UNLESS SIGNED AND DATED

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

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

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check Type 'A' Detail	
DETAIL EC-1	Temporary Rock Silt Check Type 'B' Detail	

REVISIONS

8/17/99

BEGIN STATE PROJECT I-5010
-L- POT STA 10+00

BLEECKER, LLC, ROBERT F.

-L-
PI Sta 22+39.62
Δ = 91° 43' 57.4" (LT)
D = 6° 32' 53.1"
L = 1,400.91'
T = 901.87'
R = 875.00'
SE = .04
DS = 50 MPH

MATCH LINE STA. 22+00.00 -L-
SEE SHEET EC-2

+00.20
EXIST R/W

PC Sta. 13+37.75

1
TILGHMAN, GRANVILLE, JOHNSON & ELAINE

2
GENERATION III, LLC.

TWO, LLC, TIL

1
TILGHMAN, GRANVILLE, JOHNSON & ELAINE

EXISTING EASEMENT

DITCH TURNOUT
EST. 7 SY PSRM

TEMPORARY
SILT FENCE

CLASS 'B'
RIP RAP
EST. 5 TONS
EST. 16 SY FF

EXISTING R/W

N 89° 24' 52.1" E

SEE SHEET 9 FOR PROFILES

$$$$SYSTIME$$$$
$$$$SIGN$$$$
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-3/CONSTR.5
R/W SHEET NO.	

HYDRAULICS ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
20774
ENGINEER
STEPHEN R. WHITLEY
5.11.04
SEAL NOT VALID UNLESS SIGNED AND DATED

8/17/99

REVISIONS

-L-
PI Sta. 22+39.62
△ = 91° 43' 57.4" (LT)
D = 6° 32' 53.1"
L = 1,400.91'
T = 901.87'
R = 875.00'
SE = .04
DS = 50 MPH

-L-
△ = 81° 10' 31.5" (RT)
D = 6° 09' 39.0"
L = 1,317.60'
T = 796.76'
R = 930.00'
SE = .04
DS = 50 MPH

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

25

30

MATCH LINE STA. 22+00.00 -L-
SEE SHEET EC-1

MATCH LINE STA. 35+00.00 -L-
SEE SHEET EC-3

PI Sta. 27+38.65

(1) TILGHMAN, GRANVILLE, JOHNSON & ELAINE

(2) GENERATION III, LLC.

(5) DRIVER, DOTTIE TURNER

SPECIAL LATERAL 'V' DITCH
SEE DETAIL B
EST. 730 SY TECM

2CI TYPE 'D'

DITCH TURNOUT
EST. 7 SY PSRM

TEMPORARY SILT FENCE

PC Sta. 32+47.22

N 21° 05.3" W

SEE SHEET 9 FOR PROFILES

$$$$SYSTIME$$$$
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-4/CONSTR.6
R/W SHEET NO.	

HYDRAULICS ENGINEER

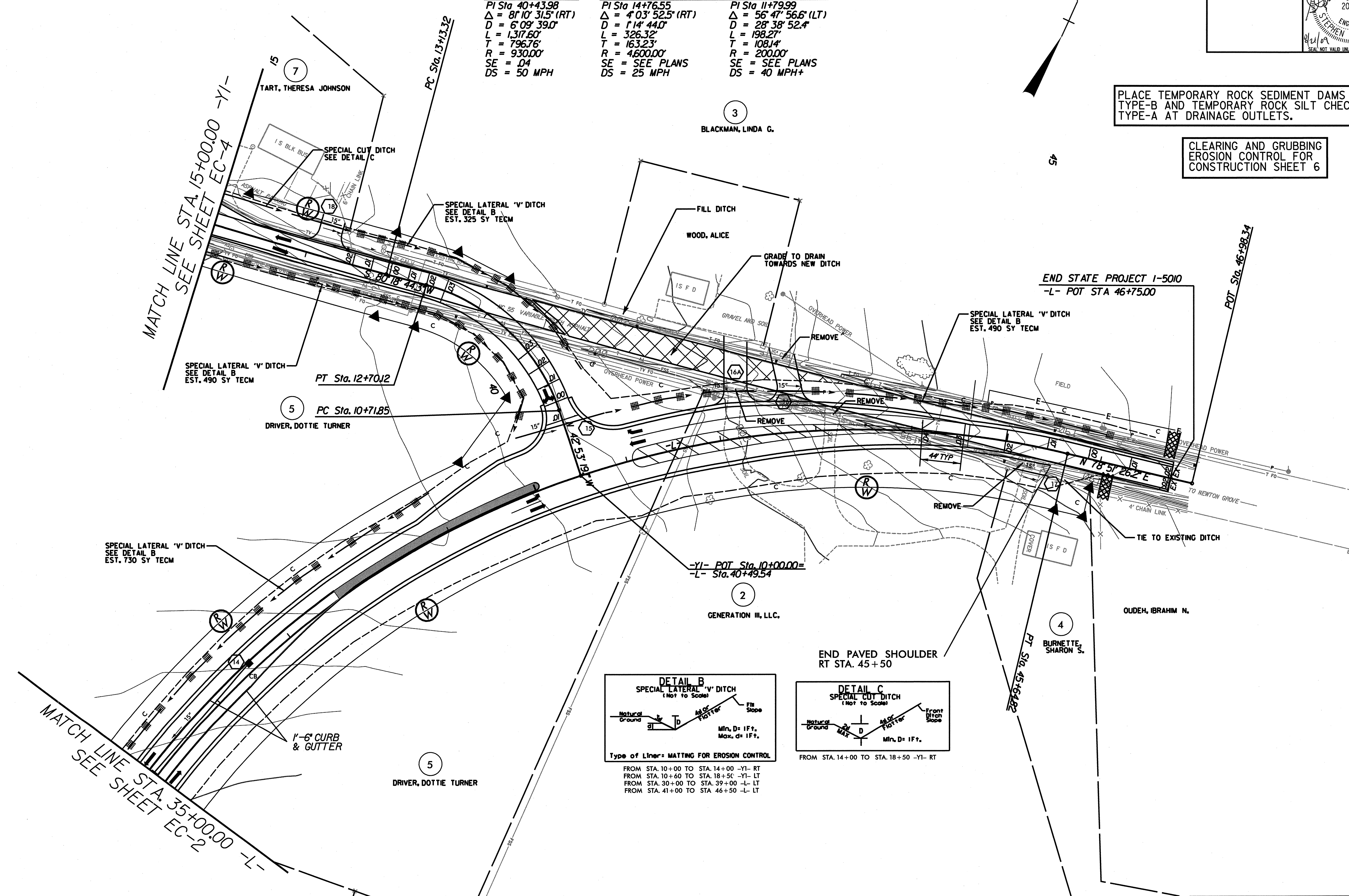
NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY

SEAL NOT VALID UNLESS SIGNED AND DATED

-L-	-Y1-	
PI Sta 40+43.98	PI Sta 14+76.55	PI Sta 11+79.99
Δ = 81° 10' 31.5" (RT)	Δ = 4° 03' 52.5" (RT)	Δ = 56° 47' 56.6" (LT)
D = 6° 09' 39.0"	D = 1° 14' 44.0"	D = 28° 38' 52.4"
L = 1,317.60'	L = 326.32'	L = 198.27'
T = 796.76'	T = 163.23'	T = 108.14'
R = 930.00'	R = 4,600.00'	R = 200.00'
SE = .04	SE = SEE PLANS	SE = SEE PLANS
DS = 50 MPH	DS = 25 MPH	DS = 40 MPH+

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



SEE SHEETS 9,10 & 11 FOR PROFILES

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-5/CONSTR.7
R/W SHEET NO.	

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20114 ENGINEER STEPHEN R. WHITLEY
SEAL NOT VALID UNLESS SIGNED AND DATED

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

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

-Y2-		
PI Sta 10+82.97	PI Sta 12+43.10	PI Sta 17+09.47
Δ = 63° 19' 16.2" (LT)	Δ = 13° 43' 12.9" (RT)	Δ = 26° 25' 15.1" (RT)
D = 57° 17' 44.8"	D = 6° 11' 38.9"	D = 57° 17' 44.8"
L = 110.52'	L = 221.50'	L = 46.11'
T = 61.67'	T = 111.28'	T = 23.47'
R = 100.00'	R = 925.00'	R = 100.00'
SE = 0.02	SE = SEE PLAN	SE = SEE PLAN
DS = 20 MPH	DS = 40 MPH+	DS = 20 MPH

END CONSTRUCTION & PAVEMENT REMOVAL

TIE TO EXIST FENCE

PT Sta. 17+32.11

PC Sta. 16+86.00
BEGIN PAVEMENT REMOVAL

TIE TO EXIST FENCE

RETAIN

N 55° 13' 26" W

PT Sta. 13+53.32

END CONSTRUCTION
-Y2- Sta. 12+75.00

PRC Sta. 11+37.82

PT Sta. 16+39.64

S 84° 27' 36" W

PC Sta. 18+72.31

-Y2- POT STA 10+00.00=
-Y1- POT STA 17+57.42

PC Sta. 10+21.30

DO NOT DISTURB COLUMN

MATCH LINE STA. 22+00.00 -Y1-
SEE SHEET EC-5

MATCH LINE STA. 15+00.00 -Y1-
SEE SHEET EC-3

BERETICH, GUY R. & FLORENCE W.

CARPENTER, JIM T.

GALAXY ENTERPRISES, INC.,

CARPENTER, JIM T.

BARROW, JR., ZEBULON V. & PATSY

TART, TERESA JOHNSON

PARKER, JAMES

TART, THERESA JOHNSON

TART, INC., SUSAN E.

DRIVER, DOTTIE TURNER

REMOVE

FILL DITCH

GRADE TO FLOW TO DITCH

SPECIAL CUT DITCH SEE DETAIL C

SEE SHEET 11 FOR PROFILES

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-6/CONSTR.8
R/W SHEET NO.	

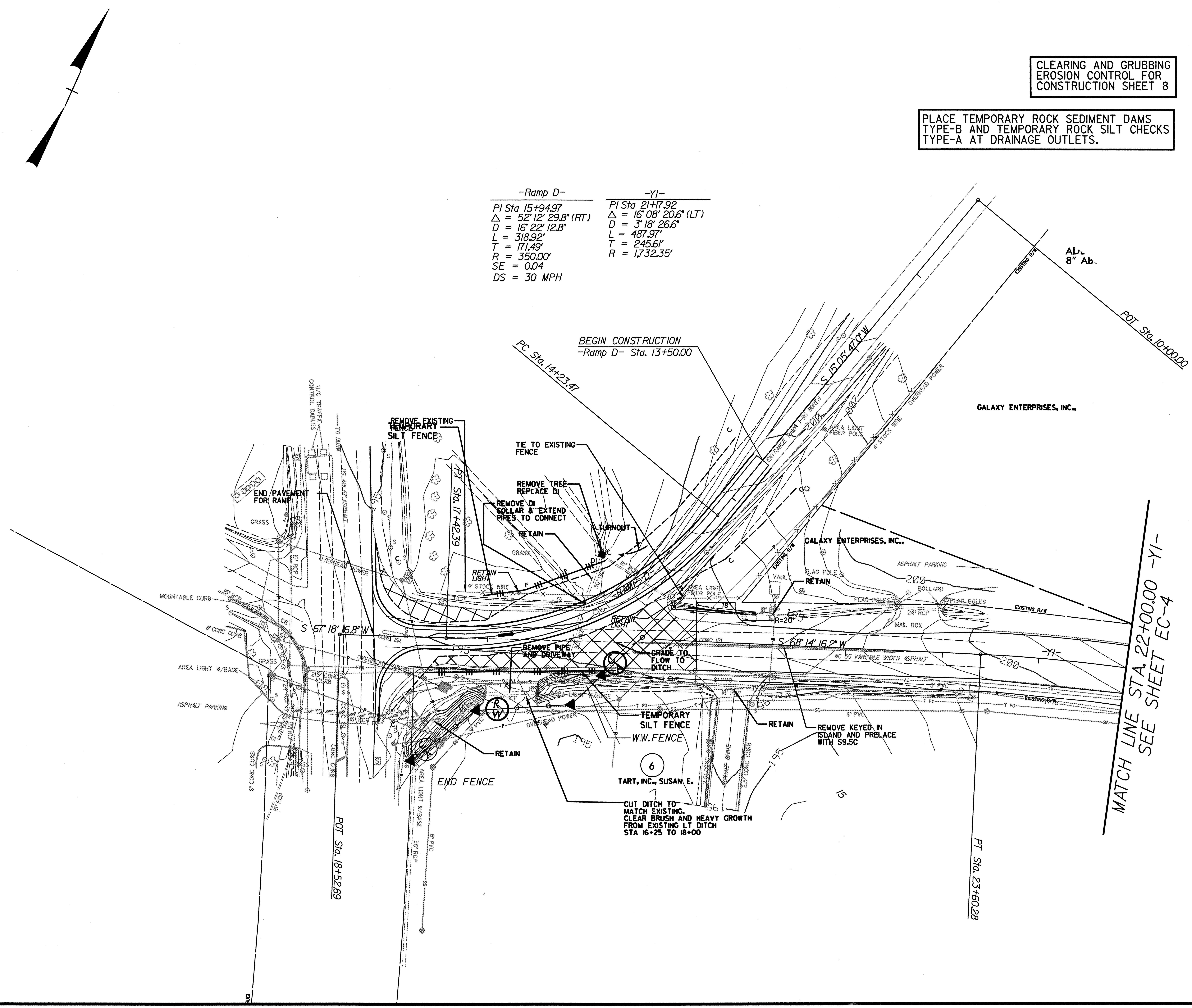
HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY

SEAL NOT VALID UNLESS SIGNED AND DATED

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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



-Ramp D-
PI Sta 15+94.97
Δ = 52° 12' 29.8" (RT)
D = 16° 22' 12.8"
L = 318.92'
T = 171.49'
R = 350.00'
SE = 0.04
DS = 30 MPH
-Y1-
PI Sta 21+17.92
Δ = 16° 08' 20.6" (LT)
D = 3° 18' 26.6"
L = 487.97'
T = 245.61'
R = 1,732.35'
BEGIN CONSTRUCTION
-Ramp D- Sta. 13+50.00
PC Sta. 14+23.47
POT Sta. 10+00.00
GALAXY ENTERPRISES, INC.
S 15° 05' 47.0" W
REMOVE EXISTING FENCE
TEMPORARY SILT FENCE
TIE TO EXISTING FENCE
REMOVE TREE REPLACE DI
REMOVE DI COLLAR & EXTEND PIPES TO CONNECT
RETAIN
TURNOUT
END PAVEMENT FOR RAMP
PT Sta. 17+42.39
RETAIN LIGHT
S 67° 18' 16.8" W
S 68° 14' 16.2" W
REMOVE PIPE AND DRIVEWAY
GRADE TO FLOW TO DITCH
RETAIN LIGHT
MOUNTABLE CURB
AREA LIGHT W/BASE
ASPHALT PARKING
TEMPORARY SILT FENCE
W.W. FENCE
RETAIN
END FENCE
CUT DITCH TO MATCH EXISTING. CLEAR BRUSH AND HEAVY GROWTH FROM EXISTING LT DITCH STA 16+25 TO 18+00
REMOVE KEYED IN ISLAND AND PRELACE WITH S9.5C
TART, INC., SUSAN E.
POT Sta. 18+52.69
PT Sta. 23+60.28
MATCH LINE STA. 22+00.00 -Y1-
SEE SHEET EC-4

REVISIONS

8/17/99

SEE SHEET 10 FOR PROFILES

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-7/CONSTR.4
R/W SHEET NO.	

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL 20774 ENGINEER STEPHEN R. WHITLEY

5.11.09

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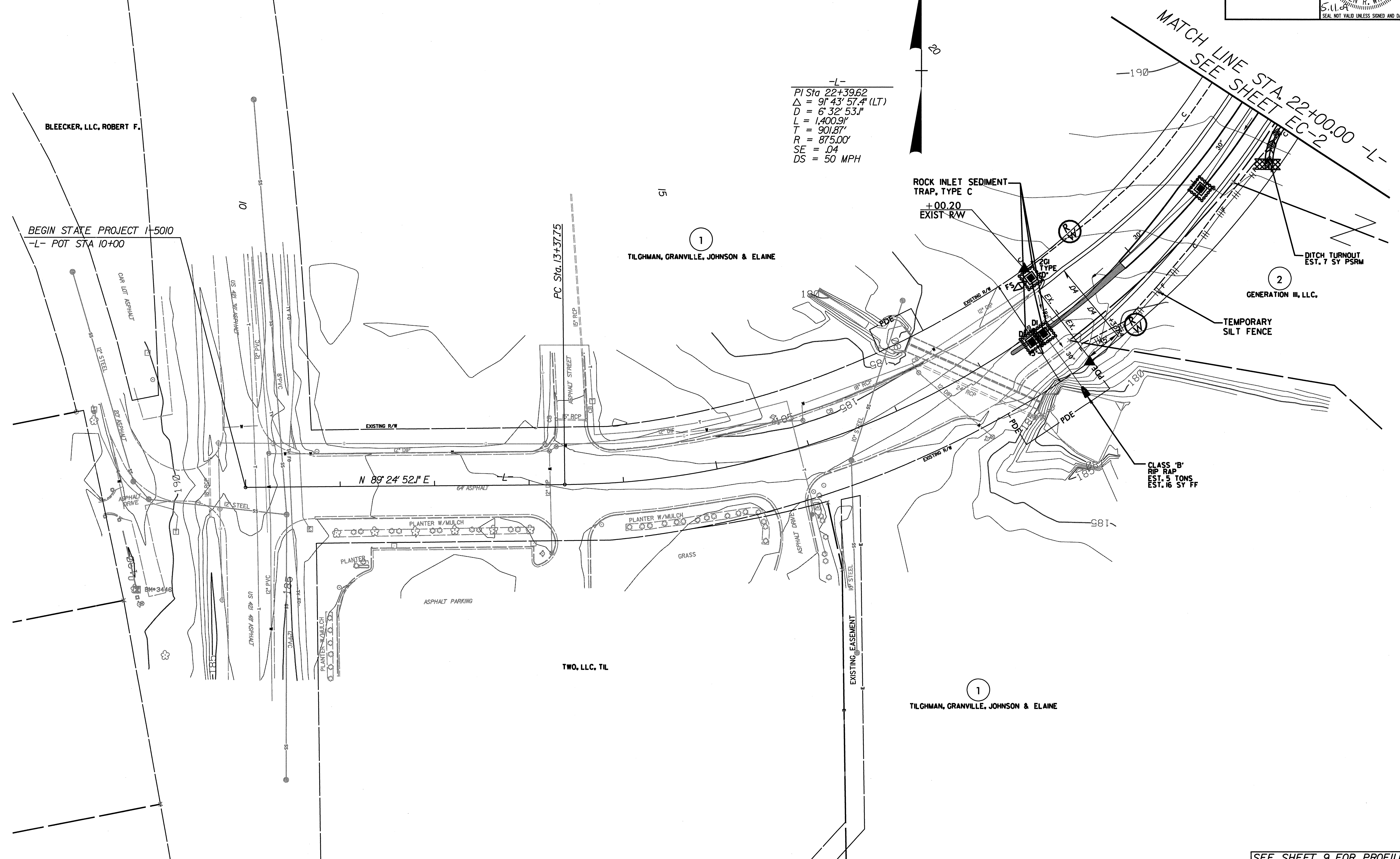
REVISIONS



SEE SHEET 9 FOR PROFILES

$$$$$$SYSTIME$$$$$$
$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-8/CONSTR.5
RW SHEET NO.	

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY

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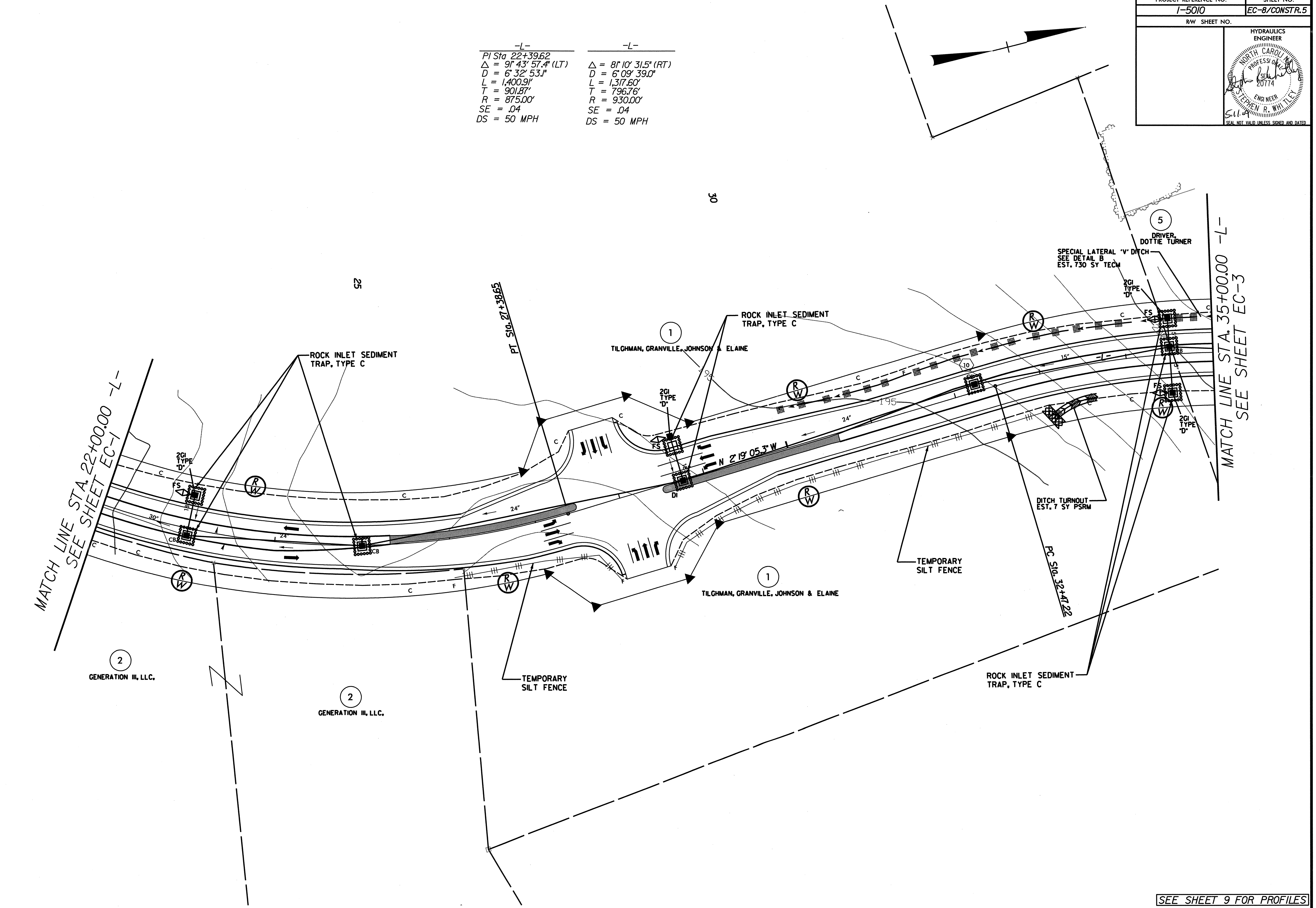
REVISIONS



SEE SHEET 9 FOR PROFILES

$$$$$$SYSTIME$$$$$$ $$$$$$DGN$$$$$$ $$$$$$USERNAME$$$$$$


PROJECT REFERENCE NO.
I-5010
SHEET NO.
EC-9/CONSTR.6
R/W SHEET NO.
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY
SEAL NOT VALID UNLESS SIGNED AND DATED
8/17/99
REVISIONS
-L-
PI Sta 40+43.98
Δ = 81° 10' 31.5" (RT)
D = 6° 09' 39.0"
L = 1,317.60'
T = 796.76'
R = 930.00'
SE = .04
DS = 50 MPH
-Y1-
PI Sta 14+76.55
Δ = 4° 03' 52.5" (RT)
D = 1° 14' 44.0"
L = 326.32'
T = 163.23'
R = 4,600.00'
SE = SEE PLANS
DS = 25 MPH
PI Sta 11+79.99
Δ = 56° 47' 56.6" (LT)
D = 28° 38' 52.4"
L = 198.27'
T = 108.14'
R = 200.00'
SE = SEE PLANS
DS = 40 MPH+
MATCH LINE STA. 15+00.00 -Y1- SEE SHEET EC-4
TART, THERESA JOHNSON
PC Sta. 13+13.32
SPECIAL CUT DITCH SEE DETAIL C
SPECIAL LATERAL 'V' DITCH SEE DETAIL B EST. 325 SY TECM
BLACKMAN, LINDA G.
FILL DITCH
WOOD, ALICE
GRADE TO DRAIN TOWARDS NEW DITCH
S 80° 18' 44.3" W
SPECIAL LATERAL 'V' DITCH SEE DETAIL B EST. 490 SY TECM
PT Sta. 12+70.12
PC Sta. 10+71.85
DRIVER, DOTTIE TURNER
REMOVE
END STATE PROJECT I-5010
-L- POT STA 46+75.00
POT Sta. 46+98.34
SPECIAL LATERAL 'V' DITCH SEE DETAIL B EST. 490 SY TECM
FIELD
OVERHEAD POWER
N 42° 53' 19" W
N 78° 51' 26.2" E
44' TYP
TO NEWTON GROVE
4' CHAIN LINK
TIE TO EXISTING DITCH
SPECIAL LATERAL 'V' DITCH SEE DETAIL B EST. 730 SY TECM
-Y1- POT Sta. 10+00.00= -L- Sta. 40+49.54
GENERATION III, LLC.
OUDEH, IBRAHIM N.
BURNETTE, SHARON S.
END PAVED SHOULDER RT STA. 45+50
PT Sta. 45+64.82
ROCK INLET SEDIMENT TRAP, TYPE C
1'-6" CURB & GUTTER
MATCH LINE STA. 35+00.00 -L- SEE SHEET EC-2
DETAIL B
SPECIAL LATERAL 'V' DITCH (Not to Scale)
Natural Ground
Fill Slope
Min. D= 1 Ft. Max. d= 1 Ft.
Type of Liner= MATTING FOR EROSION CONTROL
FROM STA. 10+00 TO STA. 14+00 -Y1- RT
FROM STA. 10+60 TO STA. 18+50 -Y1- LT
FROM STA. 30+00 TO STA. 39+00 -L- LT
FROM STA. 41+00 TO STA. 46+50 -L- LT
DETAIL C
SPECIAL CUT DITCH (Not to Scale)
Natural Ground
Front Ditch Slope
Min. D= 1 Ft.
FROM STA. 14+00 TO STA. 18+50 -Y1- RT
SEE SHEETS 9,10 & 11 FOR PROFILES

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-10/CONSTR.7
R/W SHEET NO.	

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY

5.11.09

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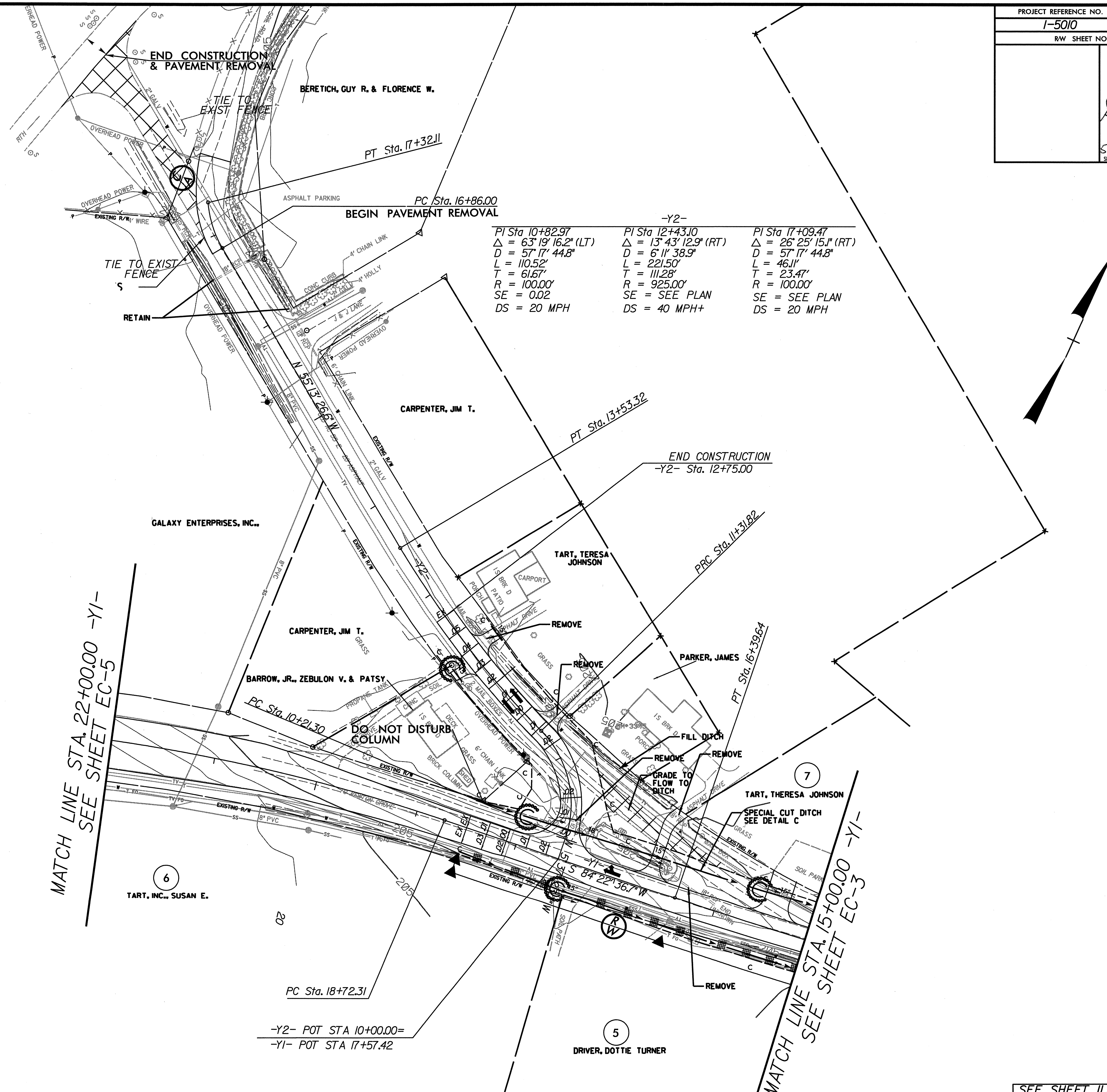
REVISIONS



SEE SHEET 11 FOR PROFILES

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
I-5010	EC-11/CONSTR.8
R/W SHEET NO.	

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20774 ENGINEER STEPHEN R. WHITLEY

5.11.09

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8/17/99

REVISIONS

-Ramp D-	-Y1-
PI Sta 15+94.97	PI Sta 21+17.92
Δ = 52° 12' 29.8" (RT)	Δ = 16° 03' 20.6" (LT)
D = 16° 22' 12.8"	D = 3° 18' 26.6"
L = 318.92'	L = 487.97'
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R = 350.00'	R = 1,732.35'
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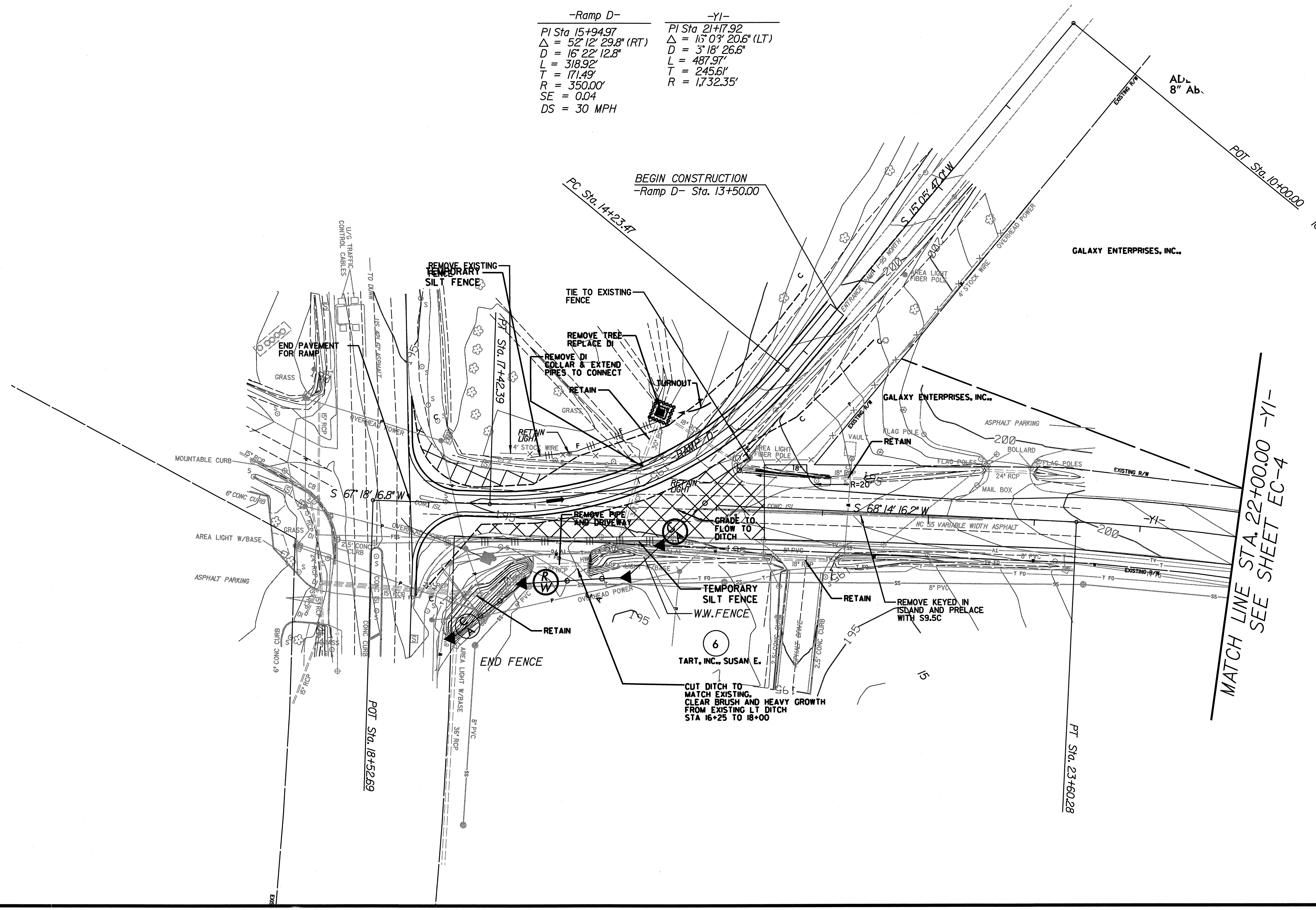

SEE SHEET 10 FOR PROFILES

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGN$$$$