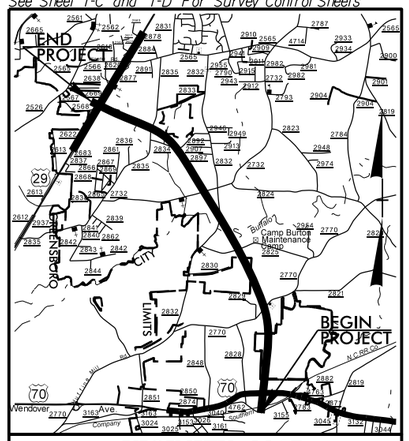
09/08/99

TIP PROJECT: U-2525B

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Plan Sheet Symbols
See Sheet 1-C and 1-D For Survey Control Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PERMIT DRAWINGS
SHEET 1 OF 93

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2525B	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
34821.1.3		PE
34821.2.3		R/W & UTILITIES

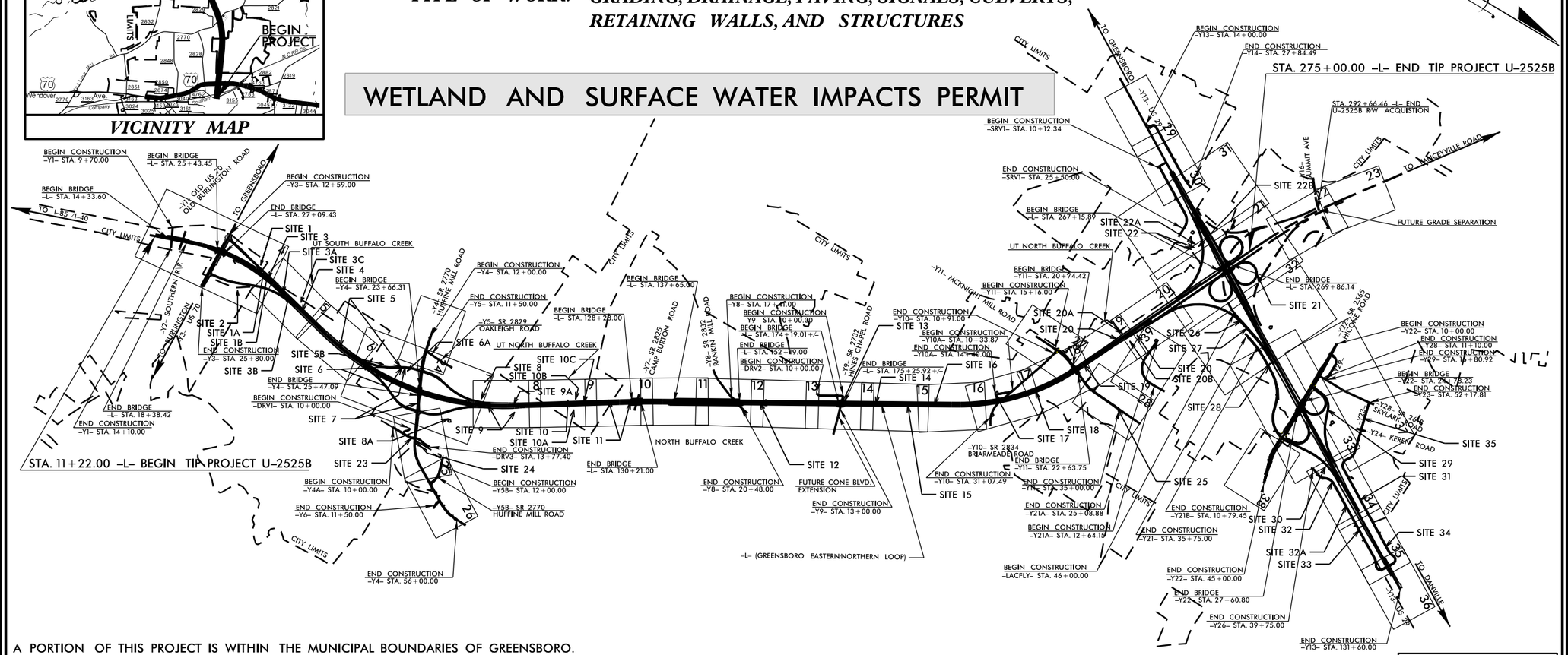
GUILFORD COUNTY

LOCATION: GREENSBORO EASTERN LOOP FROM NORTH OF US 70 RELOCATION TO US 29 NORTH OF GREENSBORO

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, CULVERTS, RETAINING WALLS, AND STRUCTURES

NAD 83/95

WETLAND AND SURFACE WATER IMPACTS PERMIT



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF GREENSBORO.
THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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 2014 = N/A
ADT 2030 = 20000
DHV = 10 %
D = 60 %
T = 16 % *
V = 70 MPH

* TTST 5% DUAL 11%
FUNC CLASS = INTERSTATE
"STATEWIDE TIER"

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-2525B = 4.504 Miles
LENGTH STRUCTURE TIP PROJECT U-2525B = 0.492 Miles
TOTAL LENGTH OF TIP PROJECT U-2525B = 4.996 Miles

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MAY 22, 2012

LETTING DATE:
MAY 20, 2014

JAMES A. SPEER, PE
PROJECT ENGINEER

DANIEL W. GARDNER JR., PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

PERMIT DRAWINGS
SHEET 2 OF 93

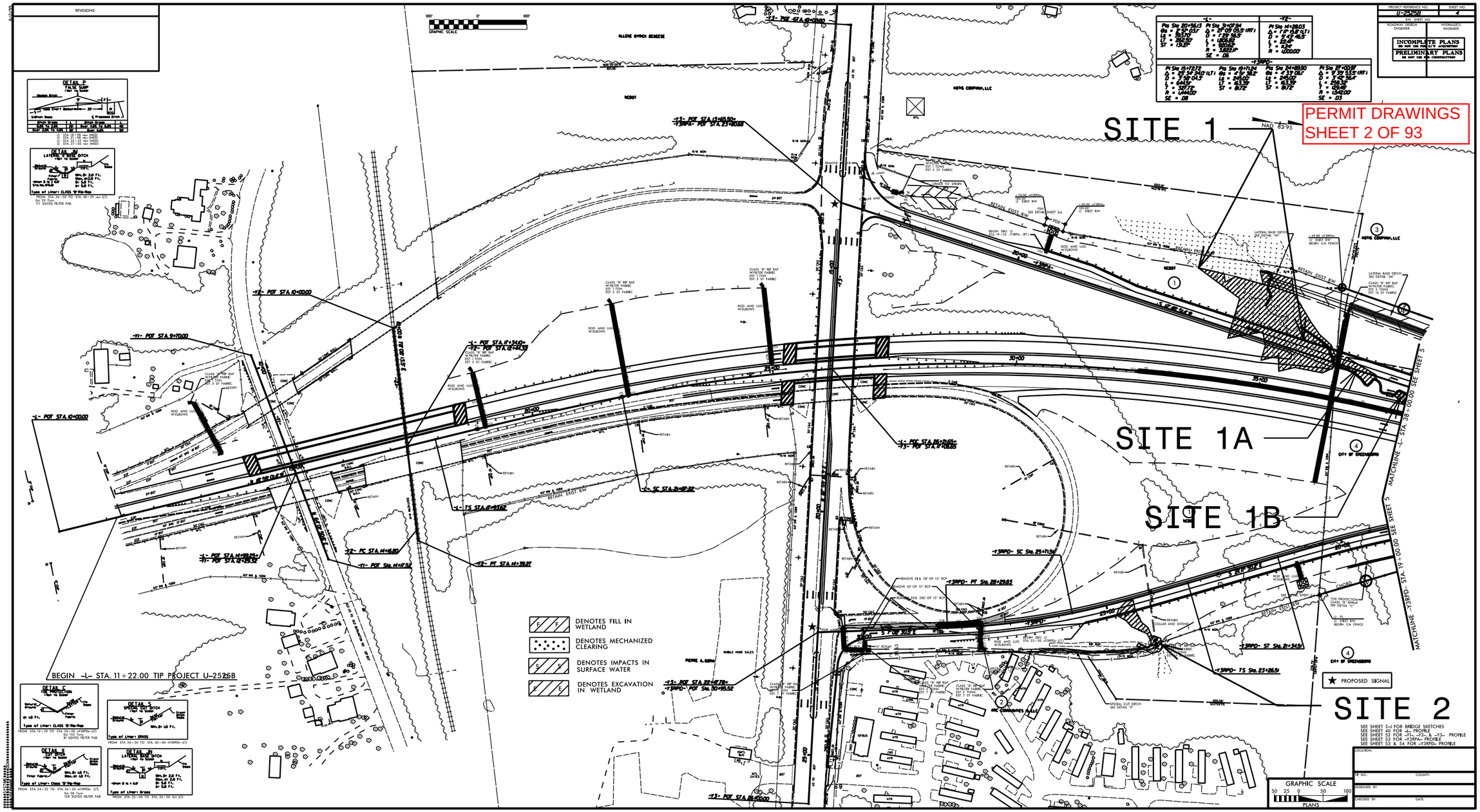
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-2526B	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-L-	-T2-
PI Sta 20+54.15 Δ = 5°57'01" (RT) D = 9°17'00" Lc = 617.10' L = 622.50' T = 311.27' R = 616.94' SE = 0.06	PI Sta 14+28.03 Δ = 11°17'15.2" (LT) D = 5°43'46.5" Lc = 224.41' L = 225.24' R = 1,000.00'
PI Sta 34+04.84 Δ = 37°05'05.5" (RT) D = 7°39'56.5" Lc = 1,003.45' L = 1,050.05' R = 763.94' SE = 0.05	

-Y3RPD-	
PI Sta 15+72.72 Δ = 15°46'34.0" (LT) D = 7°58'04.5" Lc = 644.17' L = 657.17' R = 719.00' SE = 0.08	PI Sta 19+71.84 Δ = 2°37.38.2" Lc = 248.00' L = 63.59' ST = 31.72'
PI Sta 24+85.50 Δ = 4°37'05.1" Lc = 248.00' L = 63.59' ST = 31.72'	PI Sta 27+00.18 Δ = 9°35'53.5" (RT) D = 7°43'56.4" Lc = 248.35' L = 249.25' R = 743.00' SE = 0.03

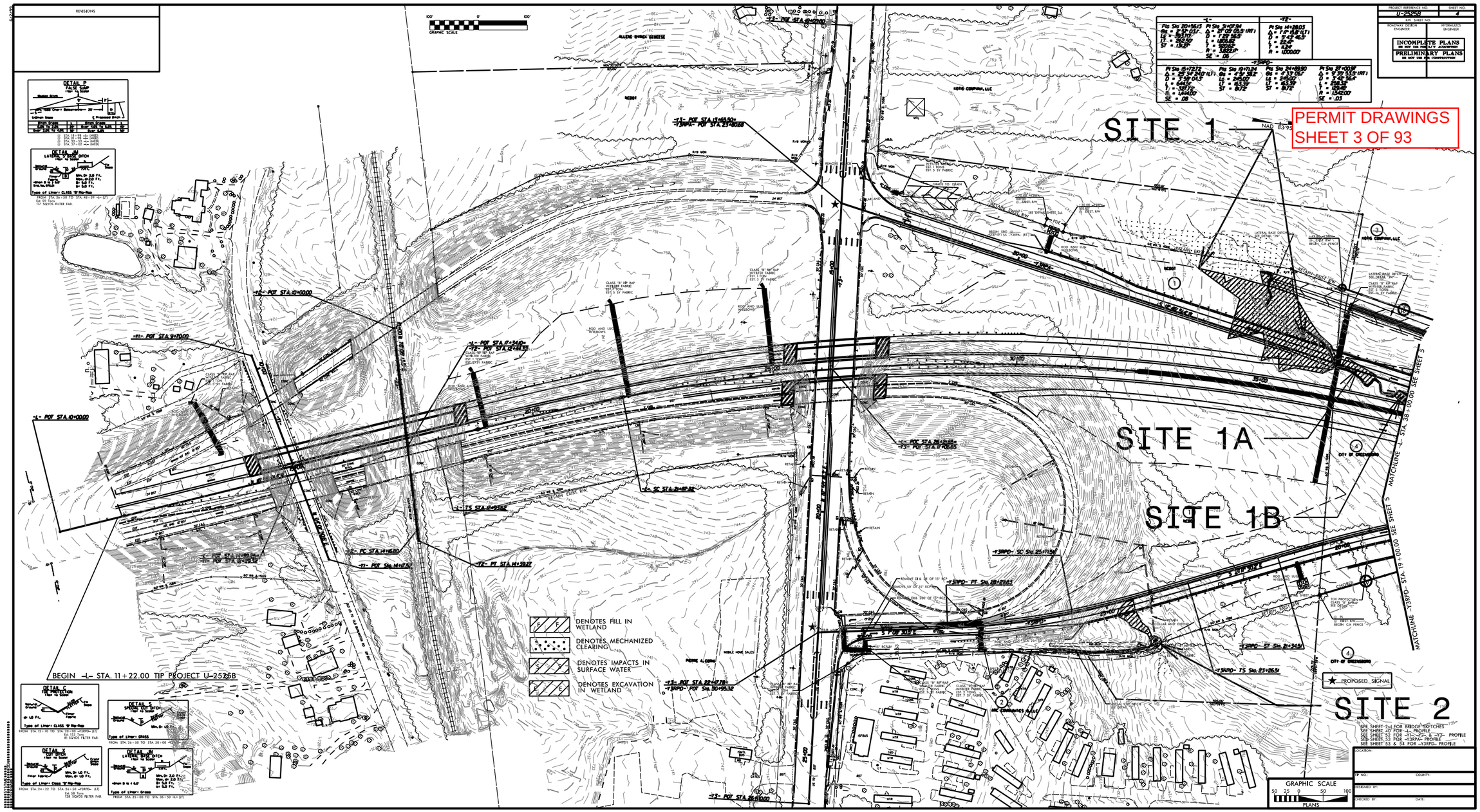


PERMIT DRAWINGS
SHEET 3 OF 93

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-2526B	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

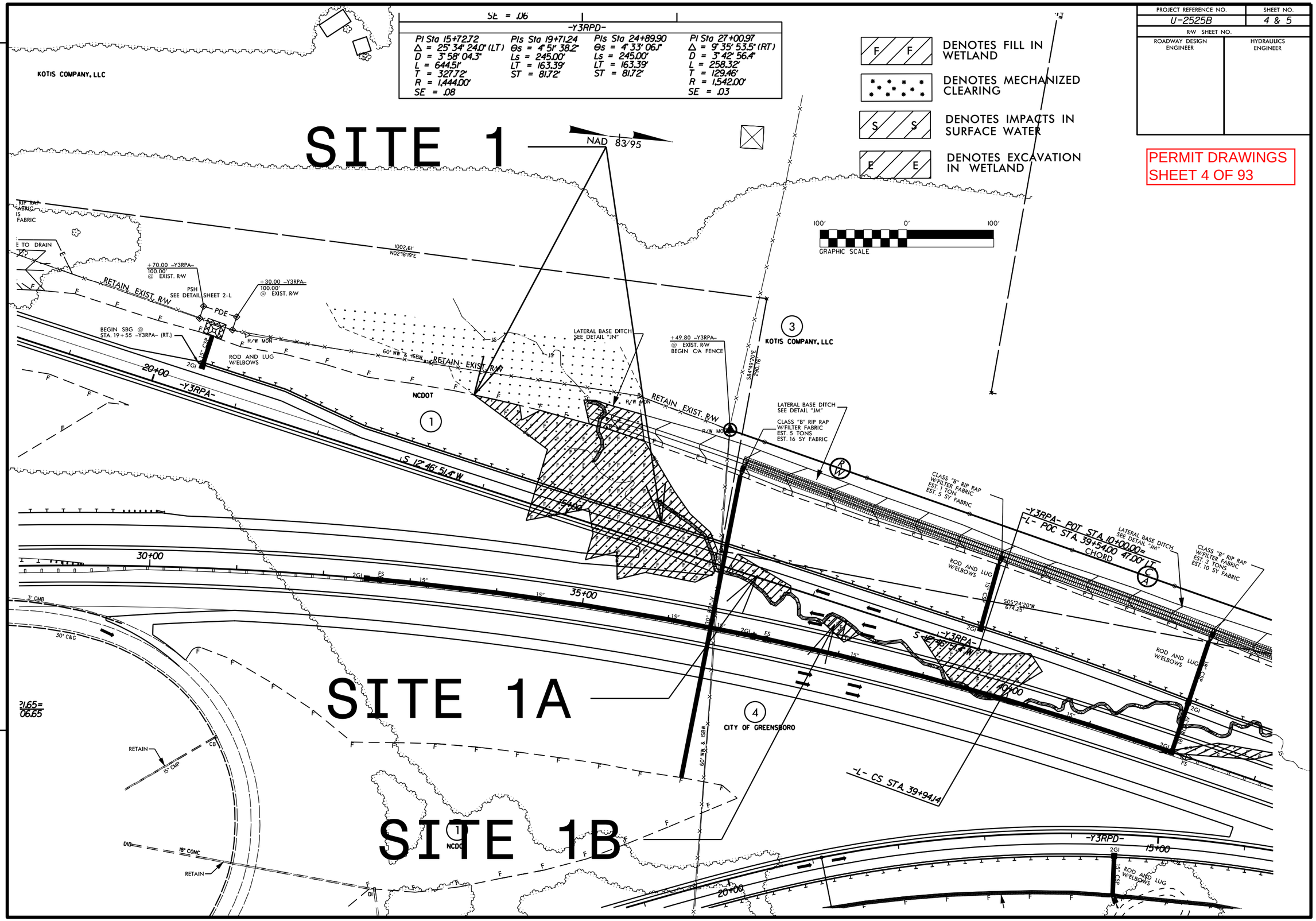
INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
U-2525B	4 & 5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWINGS
SHEET 4 OF 93

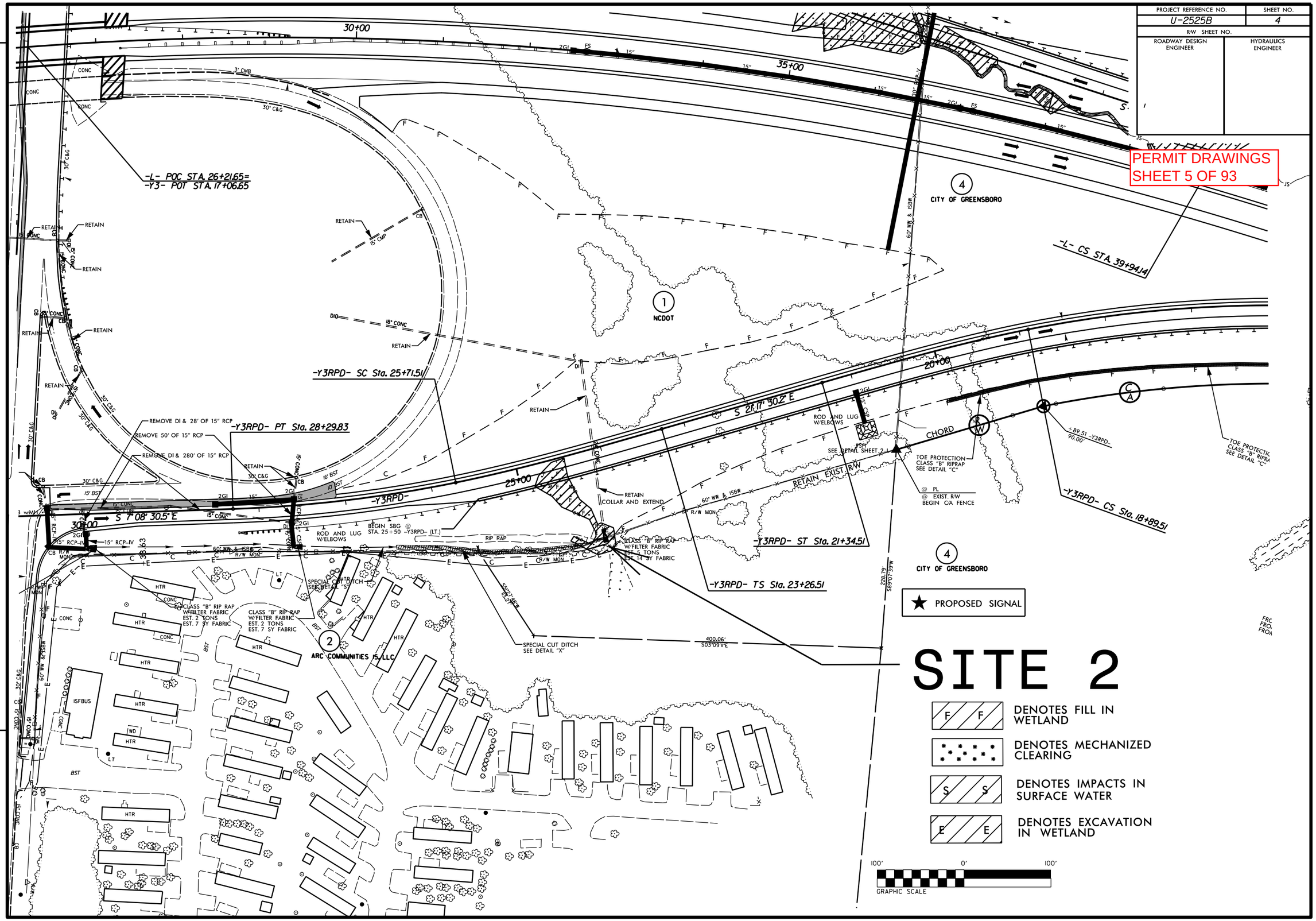
03-19-13 R/W REVISION (DWG) - COMBINED PARCELS 4 AND 79 INTO PARCEL 4 (CITY OF GREENSBORO).



PROJECT REFERENCE NO.	SHEET NO.
U-2525B	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWINGS
SHEET 5 OF 93

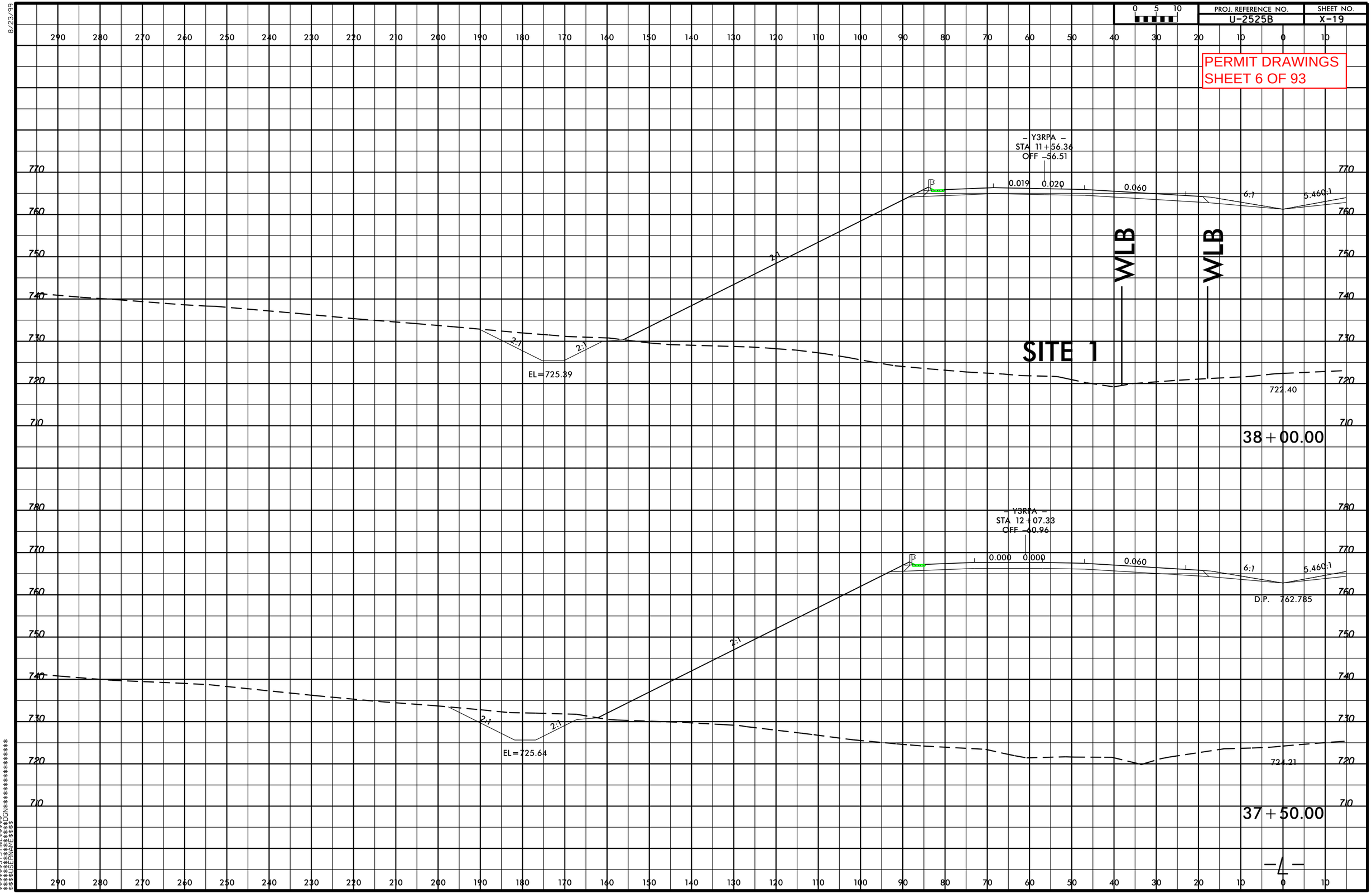
03-19-13 R/W REVISION (DWG) - COMBINED PARCELS 4 AND 79 INTO PARCEL 4 (CITY OF GREENSBORO).



8/23/99

PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-19

PERMIT DRAWINGS
SHEET 6 OF 93



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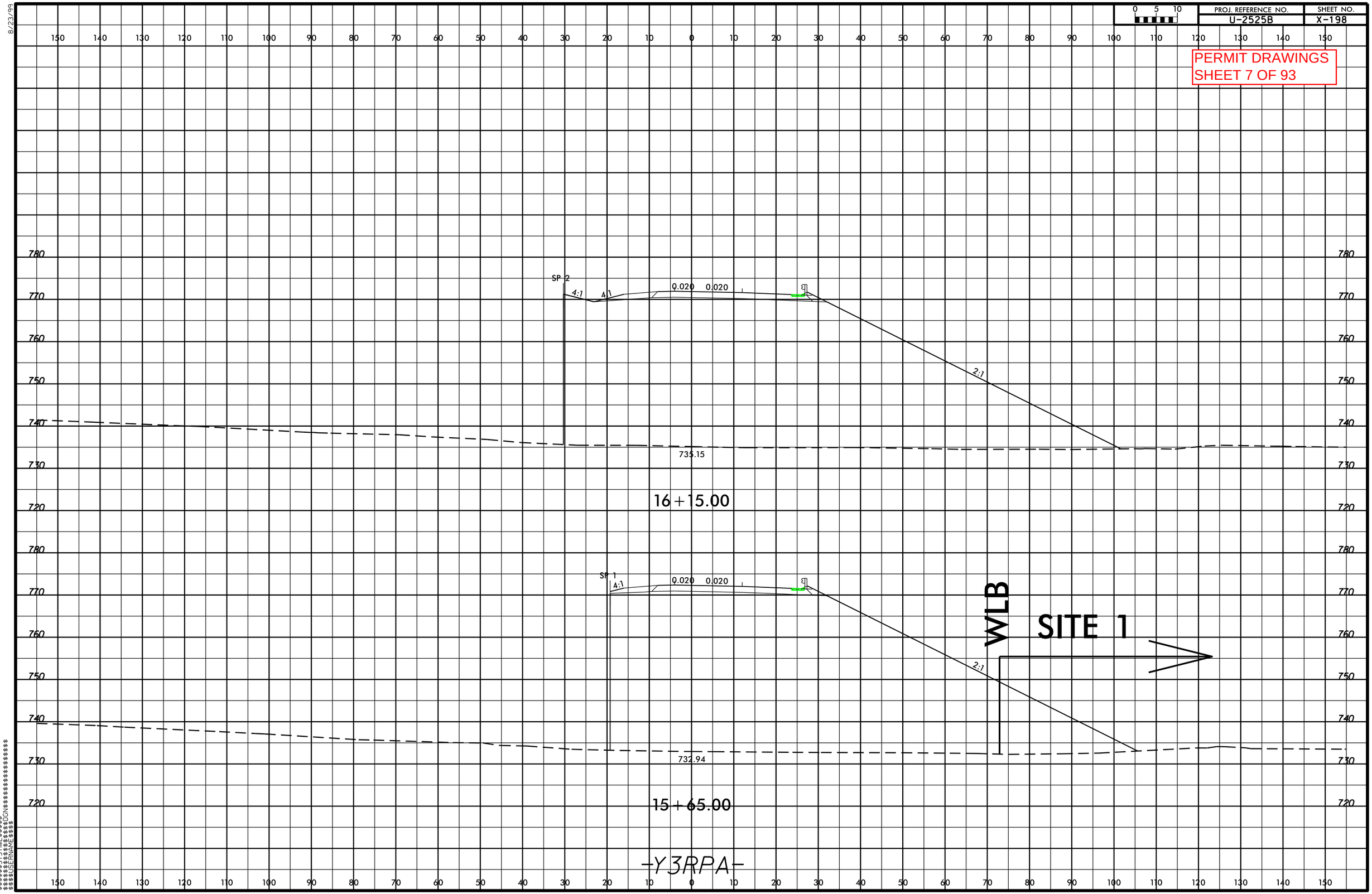
$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$
$$$$$$$USERNAME$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-2525B	X-198

PERMIT DRAWINGS
SHEET 7 OF 93



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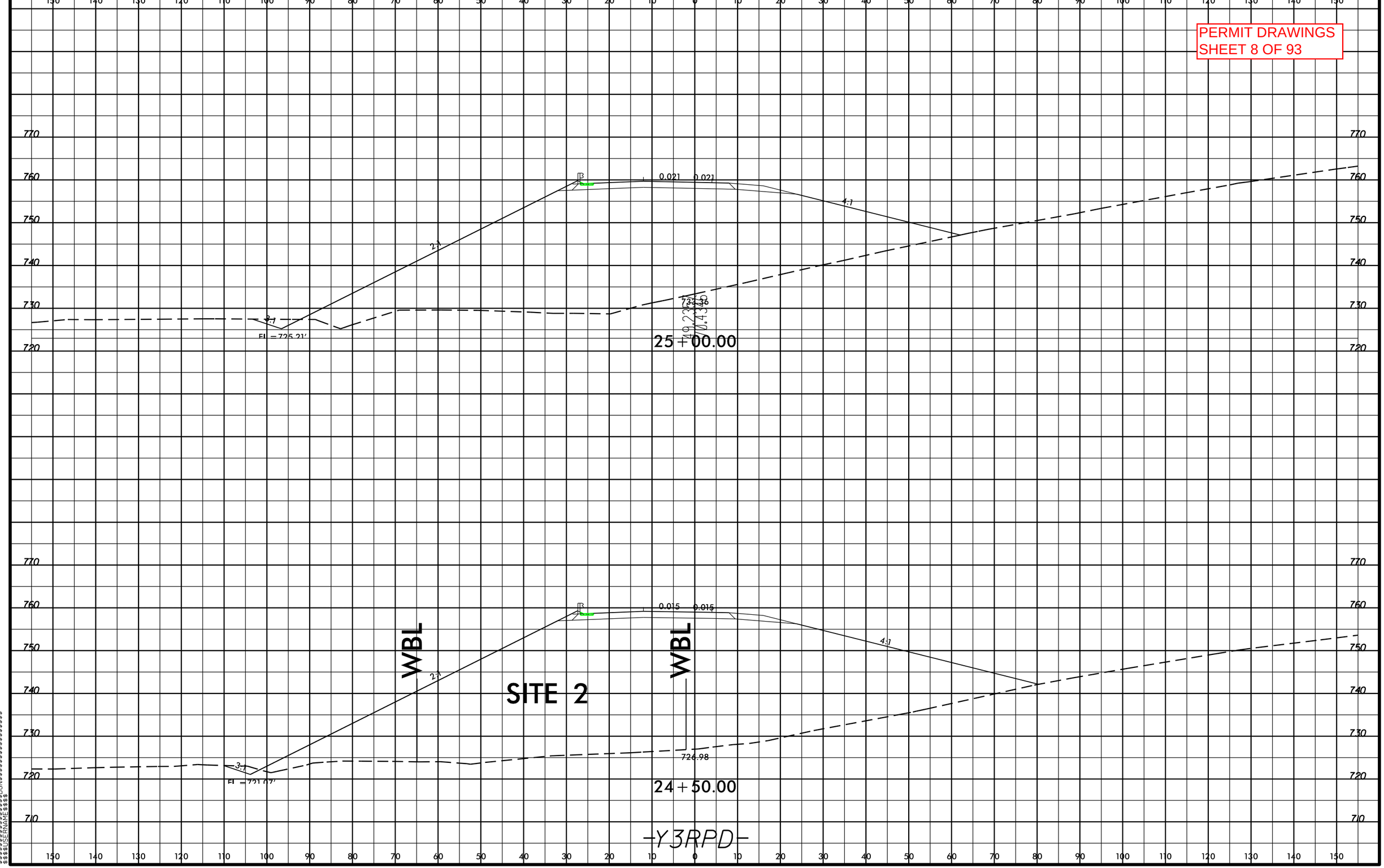
$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

8/23/99

PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-214

0 5 10

PERMIT DRAWINGS
SHEET 8 OF 93



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

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 9 OF 93

-L-	-Y3RPD-
PI Sta 31+07.94	PIs Sta 11+63.39 PI Sta 15+72.72
Δ = 27° 05' 05.5" (RT)	Θs = 4° 51' 38.2" Δ = 25° 34' 24.0" (LT)
D = 1° 29' 56.5"	Ls = 245.00' D = 3° 58' 04.3"
L = 1,806.82	LT = 163.39' L = 644.51'
T = 920.62'	ST = 81.72' T = 327.72'
R = 3,822.17'	R = 1,444.00'
SE = .06	SE = .08
PIs Sta 41+25.41	
Θs = 2° 57' 03.1"	
Ls = 393.70'	
LT = 262.50'	
ST = 131.27'	

DETAIL A
LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, 3:1, d1, B, b, 1'/Ft., Fill Slope
*When B is < 6.0'
Min. D= 1.0 Ft.
Max. d= 1.5 Ft.
B= 5.0 Ft.
b= 5.0 Ft.
Type of Liner= PSRM
FROM STA. 48+56 TO STA. 52+00 -L- (LT)
PSRM = 544 SY

DETAIL C
TOE PROTECTION
(Not to Scale)
Natural Ground, d, 24.00 FLATTER, Fill Slope, Filter Fabric
d= 1.0 Ft.
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 12+72 TO STA. 20+00 -Y3RPD- (LT)
Est. 153 Tons
81 SQYDS FILTER

F/F DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

S/S DENOTES IMPACTS IN SURFACE WATER

E/E DENOTES EXCAVATION IN WETLAND

TS/TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER

GRAPHIC SCALE 100' 0' 100'

NAD 83/95

SITE 3

SITE 3A

SITE 3C

SITE 4

SITE 1

SITE 1B

SITE 3B

(3) KOTIS COMPANY, LLC

(5) FRED M. CLARK & BETTIE B. CLARK

(6) ROCCO G. CHICKILLO, RICHARD CHICKILLO & CATHERINE M. CHICKILLO

(4) CITY OF GREENSBORO

CITY OF GREENSBORO (4)

-Y3RPA- POT STA. 10+00.00=
-L- POC STA. 39+54.00 47.00' LT.
CHORD

-L- ST STA. 43+87.84

-L- CS STA. 39+94.14

-Y3RPD- SC Sta. 12+15.00

-Y3RPD- ST Sta. 10+00.00 =
-L- POT Sta. 47+13.14 47.00' RT.

-Y3RPD- CS Sta. 18+89.51

MATCHLINE -L- STA. 38+00.00 SEE SHEET 4

MATCHLINE -L- STA. 52+00.00 SEE SHEET 6

MATCHLINE -Y3RPD- STA. 19+00.00 SEE SHEET 4

CLASS "B" RIP RAP W/FILTER FABRIC EST. 1 TON EST. 5 SY FABRIC

CLASS "B" RIP RAP W/FILTER FABRIC EST. 3 TONS EST. 10 SY FABRIC

CLASS "B" RIP RAP W/FILTER FABRIC EST. 5 TONS EST. 14 SY FABRIC

CLASS "B" RIP RAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

CLASS "B" RIP RAP W/FILTER FABRIC EST. 1 TON EST. 5 SY FABRIC

TOE PROTECTION CLASS "B" RIPRAP SEE DETAIL "C"

ROD AND LUG W/ELBOWS

EIP LATERAL BASE DITCH SEE DETAIL "A"

CLASS "B" SEE DETAIL "D"

LATERAL BASE DITCH SEE DETAIL "A"

CLASS "I" RIPRAP

END SBG @ STA. 51+05 -L- (LT.)

END SBG @ STA. 50+25 -L- (RT.)

15" RCP-IV

LATERAL "V" DITCH SEE DETAIL "B"

CLASS "B" RIP RAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

DETAIL D
RIP RAP AT EMBANKMENT
(Not to Scale)
Ditch Grade, 5', 1.5', 2'
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 48+55 TO STA. 48+75 -L- (LT) (Est. Qty 22 tons)
FROM STA. 48+36 TO STA. 48+56 -L- (RT) (Est. Qty 23 tons)
FROM STA. 48+95 TO STA. 49+15 -L- (RT) (Est. Qty 23 tons)

DETAIL B
LATERAL 'V' DITCH
(Not to Scale)
Natural Ground, 3:1, D, 3:1, b, 1'/Ft., Fill Slope
Min. D= 1.0 Ft.
b= 5.0 Ft.
FROM STA. 44+00 TO STA. 48+56 -L- (RT)
FROM STA. 48+95 TO STA. 52+00 -L- (RT)

DETAIL JM
LATERAL 5' BASE DITCH
(Not to Scale)
Natural Ground, 3:1, d1, D, 3:1, b, 1'/Ft., Fill Slope, Filter Fabric, B
*When B is > 6.0'
Std. No. 876.01
Min. D= 2.0 Ft.
Max. d= 2.0 Ft.
B= 5.0 Ft.
b= 5.0 Ft.
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 36+50 TO STA. 48+39 -L- (LT)
Est. 59 Tons
117 SQYDS FILTER FAB.

DETAIL P
FALSE SUMP
(Not to Scale)
Median Ditch, 9", 2', L (See Chart Below), 20', 5, CI etc.
S=Ditch Slope
℄ Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

@ STA. 42+02 -L- (MED)
@ STA. 47+52 -L- (MED)
@ STA. 50+02 -L- (MED)

SEE SHEET 41 FOR -L- PROFILE
SEE SHEET 53 FOR -Y3RPA- PROFILE
SEE SHEET 53 & 54 FOR -Y3RPD- PROFILE

5/14/99

$$$$$$SYSTIME$$$$$$
$$$$$$FILENAME$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 10 OF 93

-L-	-Y3RPD-
PI Sta 31+07.94	PIs Sta 41+25.41 / PI Sta 11+63.39 / PI Sta 15+72.72
Δ = 27° 05' 05.5" (RT)	Δs = 2° 57' 03.1" / Δs = 4° 51' 38.2" / Δ = 25° 34' 24.0" (LT)
D = 1° 29' 56.5"	Ls = 393.70' / Ls = 245.00' / D = 3° 58' 04.3"
L = 1,806.82	LT = 262.50' / LT = 163.39' / L = 644.51'
T = 920.62'	ST = 131.27' / ST = 81.72' / T = 327.72'
R = 3,822.17'	R = 1,444.00'
SE = .06	SE = .08

DETAIL A
LATERAL BASE DITCH
(Not to Scale)
Natural Ground; 3/1; D; 3:1; B; d; Fill Slope; r/Ft.
Min. D= 1.0 Ft.
Max. d= 1.5 Ft.
B= 5.0 Ft.
b= 5.0 Ft.
*When B is ≤ 6.0'
Type of Liner= PSRM
FROM STA. 48+56 TO STA. 52+00 -L- (LT)
PSRM = 544 SY

DETAIL C
TOE PROTECTION
(Not to Scale)
Natural Ground; d; 2:1 OR FLATTER; Fill Slope; Filter Fabric
d= 1.0 Ft.
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 13+72 TO STA. 20+00 -Y3RPD- (LT)
Est. 153 Tons
81 SQYDS FILTER

F F — DENOTES FILL IN WETLAND
DENOTES MECHANIZED CLEARING
S S — DENOTES IMPACTS IN SURFACE WATER (3)
E E — DENOTES EXCAVATION IN WETLAND
TS TS — DENOTES TEMPORARY IMPACTS IN SURFACE WATER

GRAPHIC SCALE 100' 0' 100'
NAD 83/95

SITE 3
SITE 3A
SITE 3C
SITE 4
SITE 1
SITE 1B
SITE 3B

(3) KOTIS COMPANY, LLC
(5) FRED M. CLARK & BETTIE B. CLARK
(6) ROCCO G. CHICKILLO, RICHARD CHICKILLO & CATHERINE M. CHICKILLO
(4) CITY OF GREENSBORO

MATCHLINE -L- STA. 38+00.00 SEE SHEET 4
MATCHLINE -L- STA. 52+00.00 SEE SHEET 6
MATCHLINE -Y3RPD- STA. 19+00.00 SEE SHEET 4

-Y3RPA- POT STA. 10+00.00 = -L- POC STA. 39+54.00 47.00' LT. CHORD
-L- ST STA. 43+87.84
-L- CS STA. 39+94.14
-Y3RPD- SC Sta. 12+15.00
-Y3RPD- ST Sta. 10+00.00 = -L- POT Sta. 47+13.14 47.00' RT.
-Y3RPD- CS Sta. 18+89.51

CLASS "B" RIP RAP W/FILTER FABRIC EST. 1 TON EST. 5 SY FABRIC
CLASS "B" RIP RAP W/FILTER FABRIC EST. 3 TONS EST. 10 SY FABRIC
CLASS "B" RIP RAP W/FILTER FABRIC EST. 5 TONS EST. 14 SY FABRIC
CLASS "B" RIP RAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
CLASS "B" RIP RAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
CLASS "B" RIP RAP W/FILTER FABRIC EST. 1 TON EST. 5 SY FABRIC
TOE PROTECTION CLASS "B" RIPRAP SEE DETAIL "C"
CLASS "I" RIPRAP
ROD AND LUG W/ELBOWS
END SBG @ STA. 51+05 -L- (LT.)
END SBG @ STA. 50+25 -L- (RT.)
15" RCP-IV
9' X 9' RCBC
LATERAL BASE DITCH SEE DETAIL "A"
LATERAL "V" DITCH SEE DETAIL "B"
CLASS "B" SEE DETAIL "D"
EIP LATERAL BASE DITCH SEE DETAIL "A"
S05°24'20"W 400.00'
S05°24'20"W 614.25'
N05°59'57"W 263.58'
N05°30'44"E 308.86'
N 14°00'10"E
SOIL
TDE

DETAIL D
RIP RAP AT EMBANKMENT
(Not to Scale)
Ditch Grade; 5'; 1.5'; 2'
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 48+55 TO STA. 48+75 -L- (LT) (Est. Qty 22 tons)
FROM STA. 48+36 TO STA. 48+56 -L- (RT) (Est. Qty 23 tons)
FROM STA. 48+95 TO STA. 49+15 -L- (RT) (Est. Qty 23 tons)

DETAIL B
LATERAL "V" DITCH
(Not to Scale)
Natural Ground; 3/1; D; 3:1; b; r/Ft.; Fill Slope
Min. D= 1.0 Ft.
b= 5.0 Ft.
FROM STA. 44+00 TO STA. 48+56 -L- (RT)
FROM STA. 48+95 TO STA. 52+00 -L- (RT)

DETAIL JM
LATERAL 5' BASE DITCH
(Not to Scale)
Natural Ground; 2/1; d; D; 2:1; b; r/Ft.; Fill Slope; Filter Fabric; B
Min. D= 2.0 Ft.
Max. d=2.0 Ft.
B= 5.0 Ft.
b= 5.0 Ft.
*When B is ≥ 6.0'
Std. No. 816.01
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 36+50 TO STA. 48+39 -L- (LT)
Est. 59 Tons
117 SQYDS FILTER FAB.

DETAIL P
FALSE SUMP
(Not to Scale)
Median Ditch; 9"; 2"; L (See Chart Below); 20'; d etc.; 5; Ditch Slope; ℄ Proposed Ditch

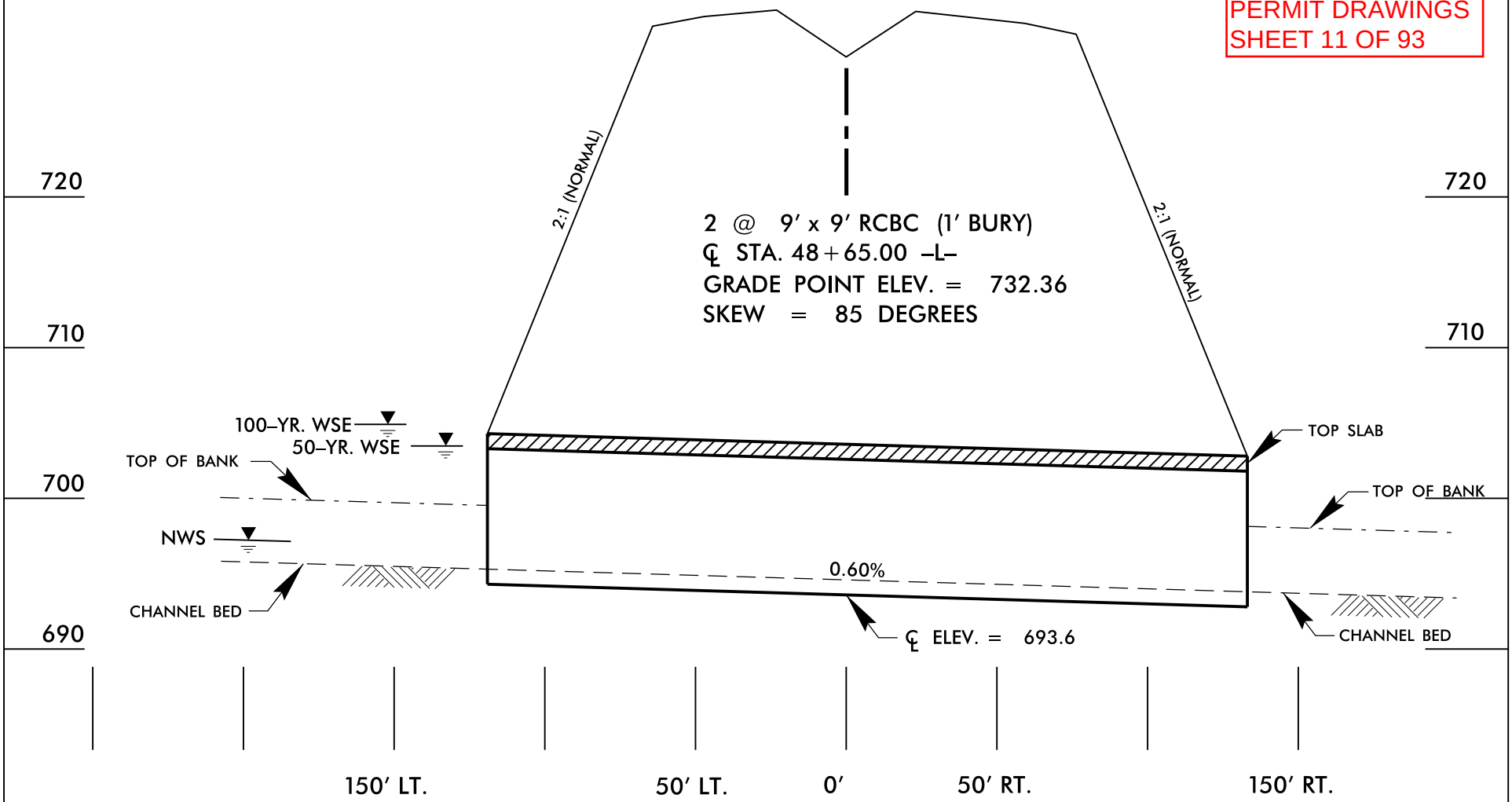
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 5.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

@ STA. 42+02 -L- (MED)
@ STA. 47+52 -L- (MED)
@ STA. 50+02 -L- (MED)

SEE SHEET 41 FOR -L- PROFILE
SEE SHEET 53 FOR -Y3RPA- PROFILE
SEE SHEETS 53 & 54 FOR -Y3RPD- PROFILE
SEE SHEETS C-1 THRU C-?? FOR CULVERT PLANS

REVISIONS
03-19-13 R/W REVISION (DWG) - COMBINED PARCELS 4 AND 79 INTO PARCEL 4 (CITY OF GREENSBORO).
5/14/99

PERMIT DRAWINGS
SHEET 11 OF 93



PROFILE

NCDOT

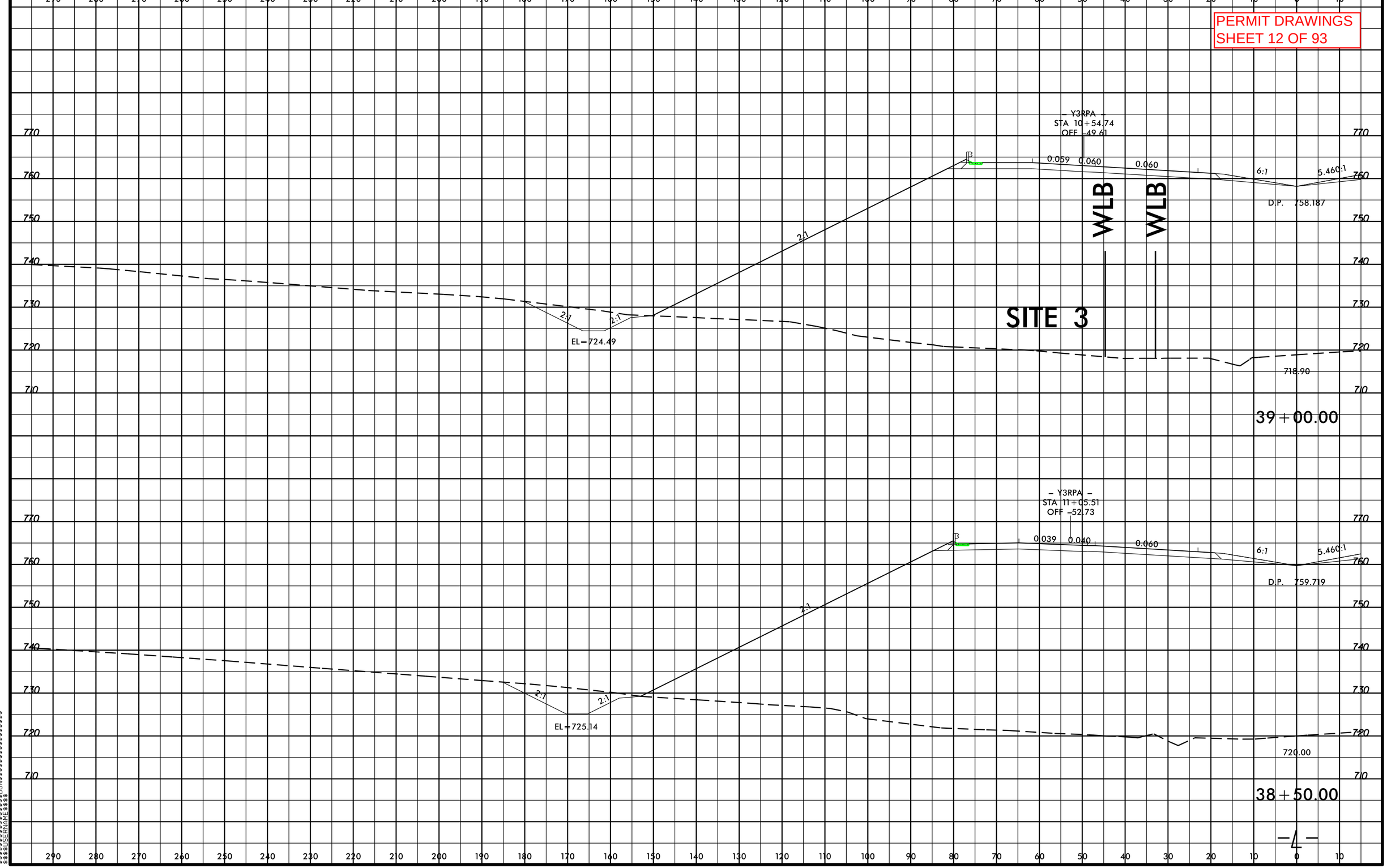
DIVISION OF HIGHWAYS
GUILFORD COUNTY
PROJECT: 34821.1.1 (U-2525B)
GREENSBORO EASTERN LOOP
FROM NORTH OF US 70
RELOCATION TO US 29 NORTH
OF GREENSBORO

SHEET OF 03/08/13

8/23/99

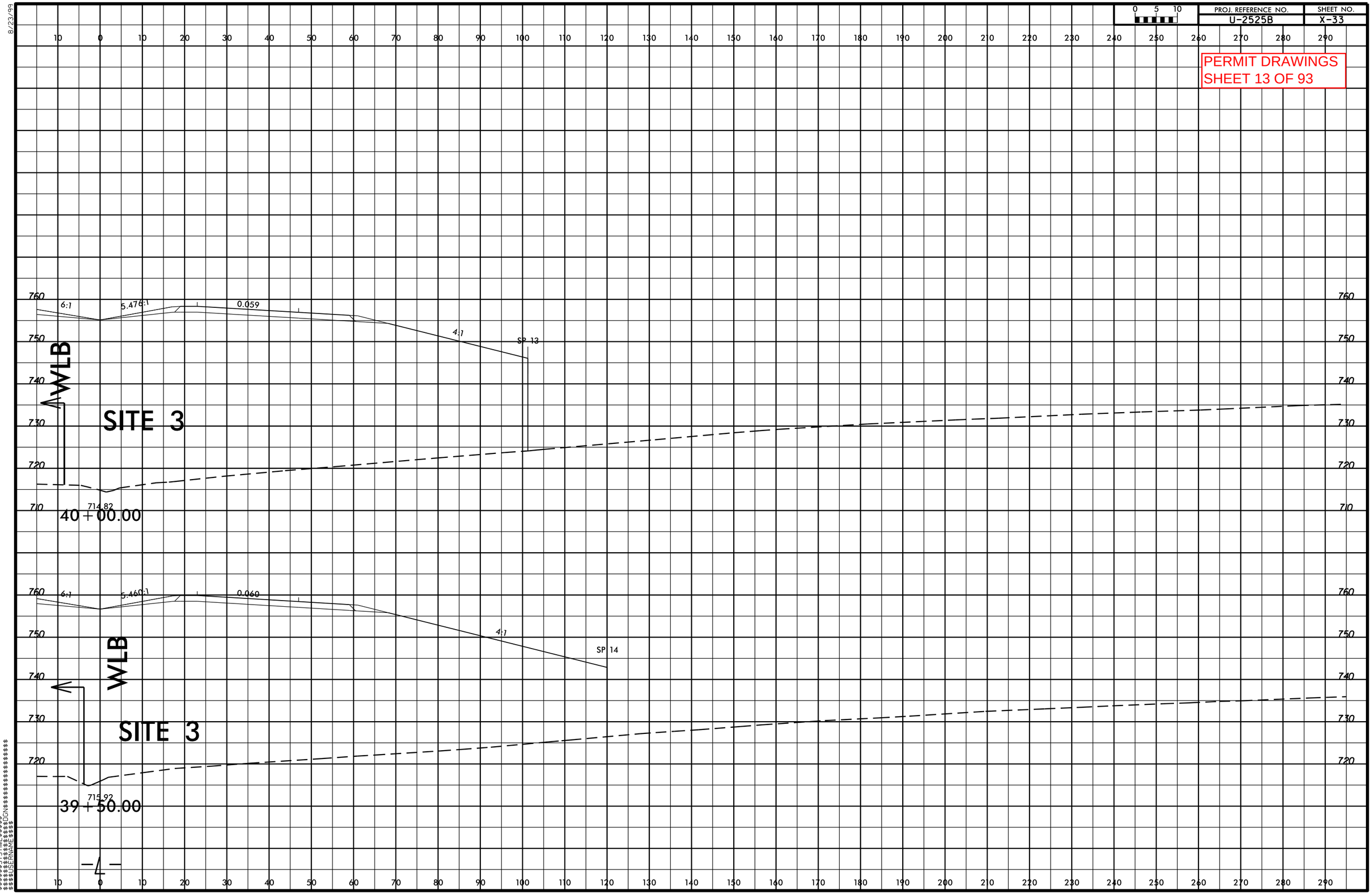
PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-20

PERMIT DRAWINGS
SHEET 12 OF 93



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

PERMIT DRAWINGS
SHEET 13 OF 93



8/23/99
$$$$$$SYSTIME$$$$$
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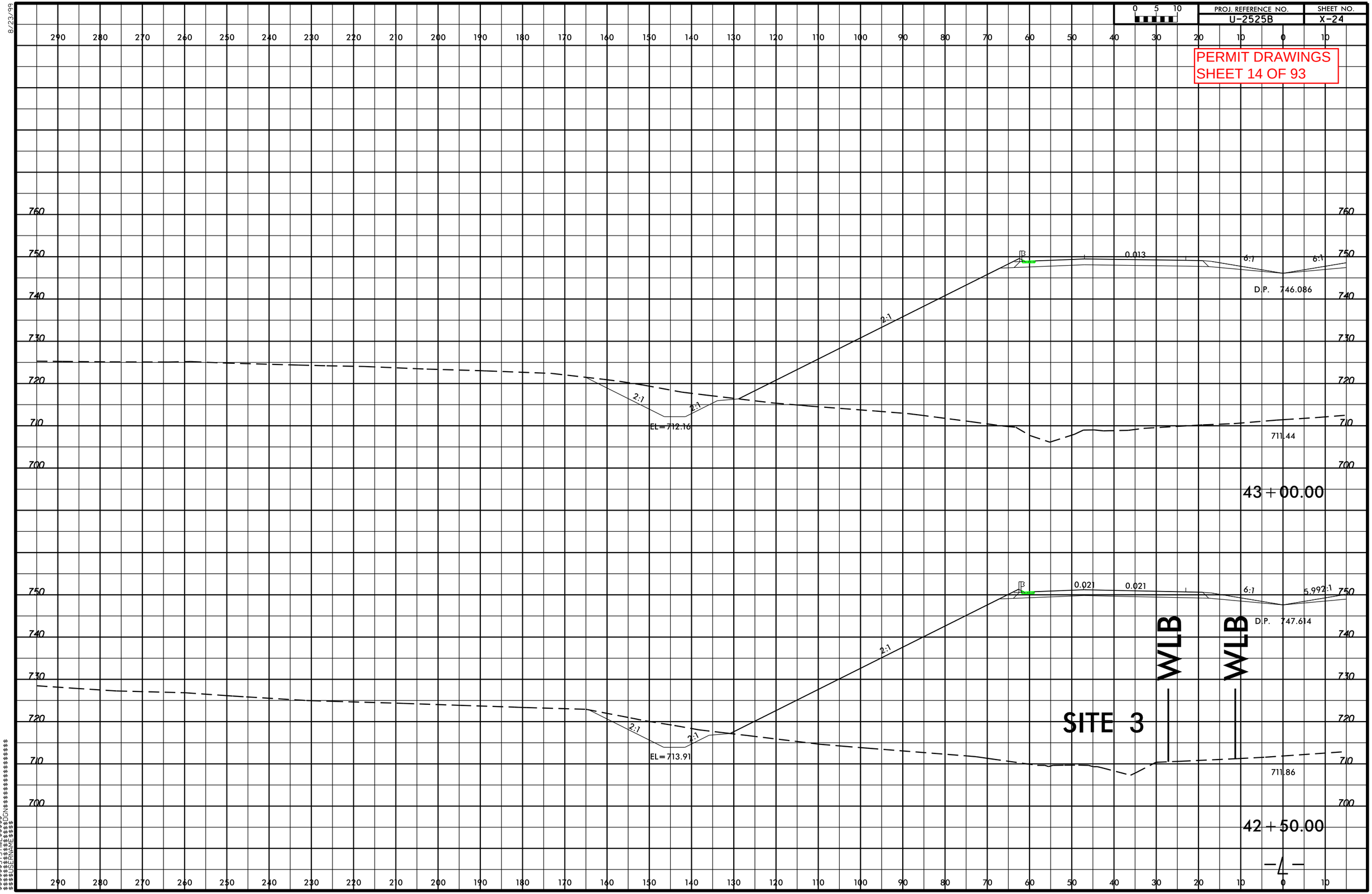
PERMIT DRAWINGS
SHEET 14 OF 93

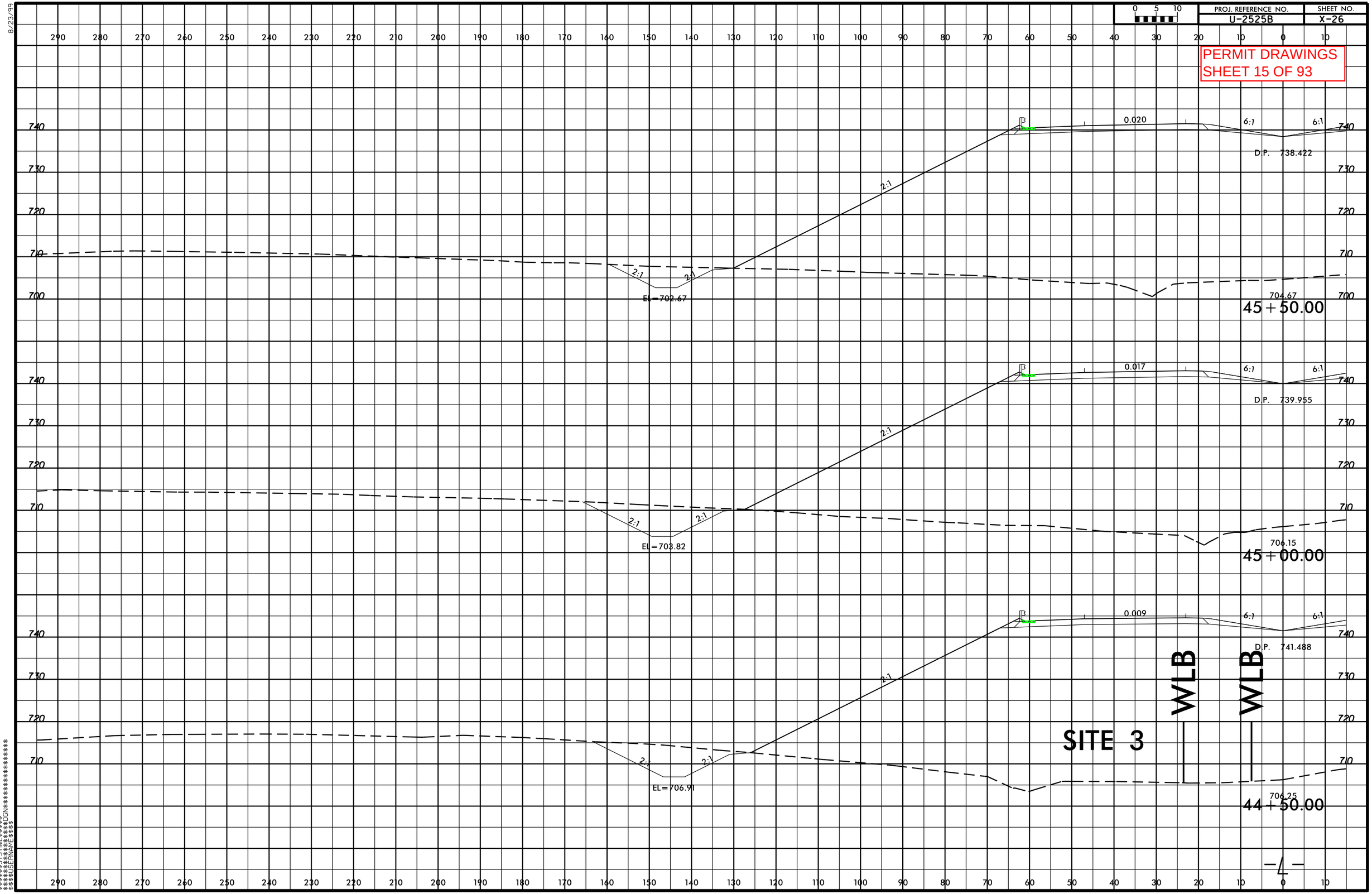


8/23/99
$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$

8/23/99

PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-26

PERMIT DRAWINGS
SHEET 15 OF 93



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$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
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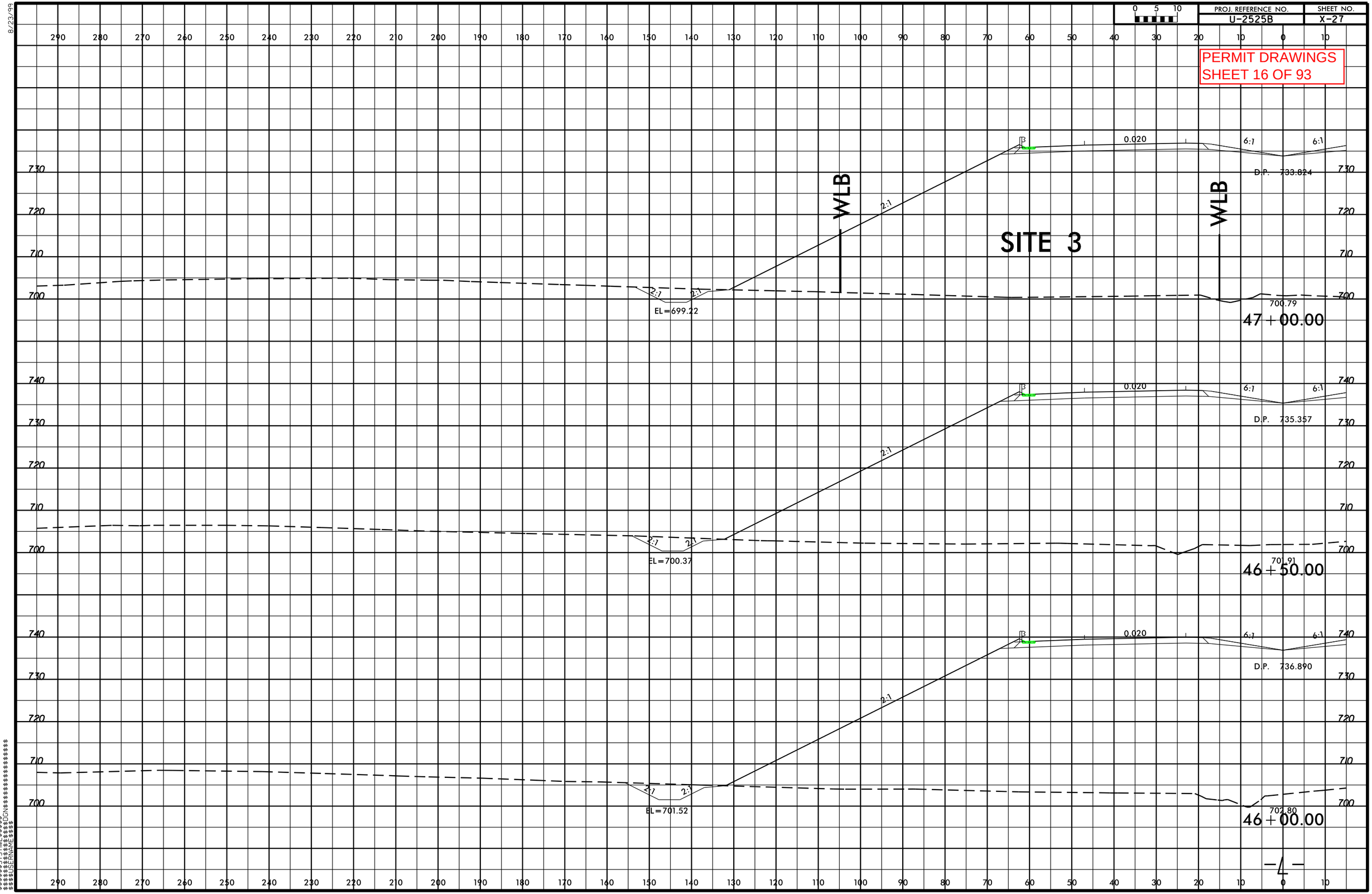
8/23/99

PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-27

PERMIT DRAWINGS
SHEET 16 OF 93



-4-

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$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
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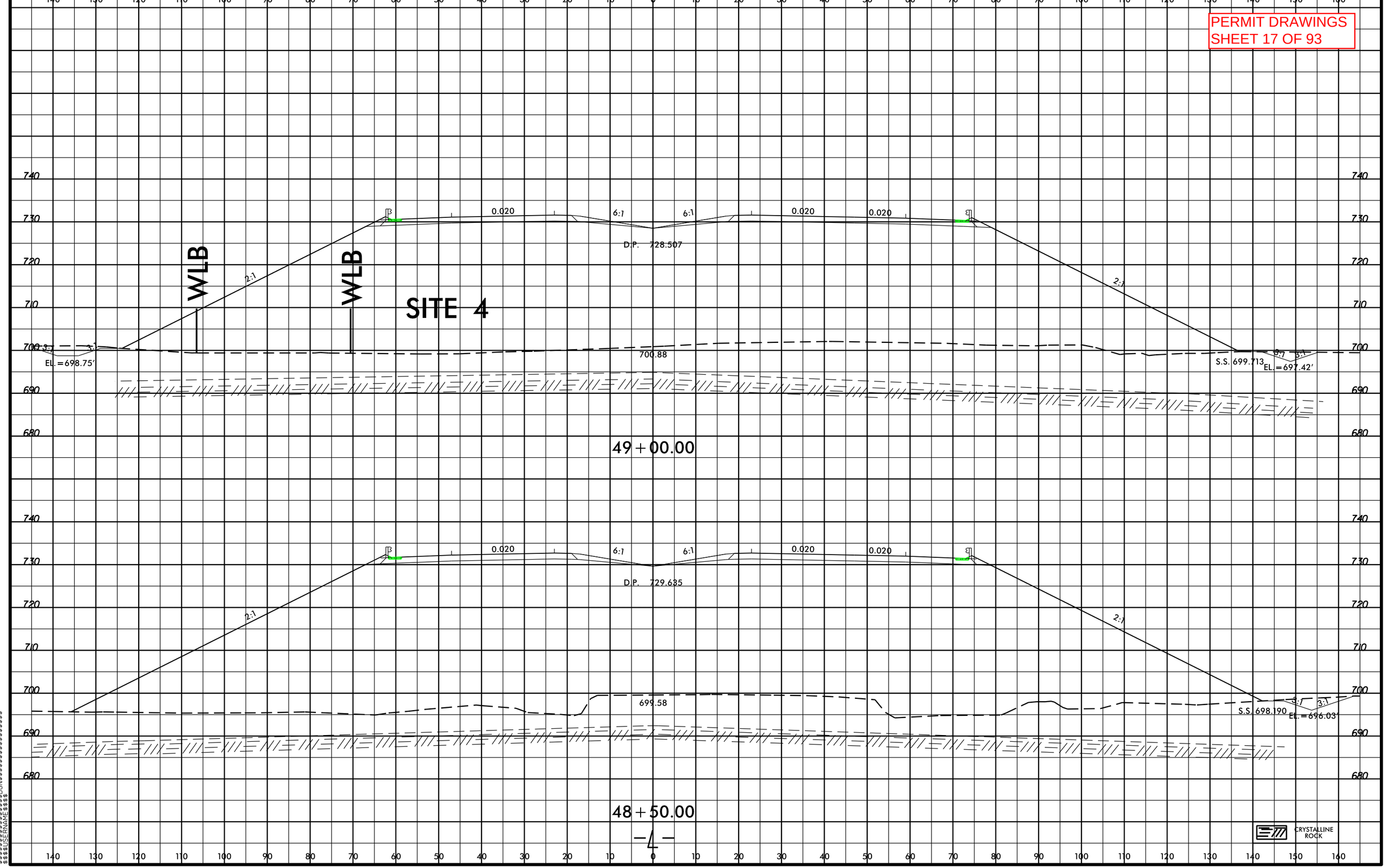
PERMIT DRAWINGS
SHEET 17 OF 93



8/23/99
$$$$$$SYSTIME$$$$$$
$$$$$$

PERMIT DRAWINGS
SHEET 18 OF 93

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

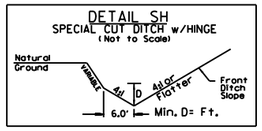
SITE 5

-L-

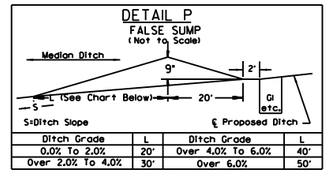
PIs Sta 55+78.47	PI Sta 79+71.67
Θs = 0° 59' 59.7"	Δ = 44° 11' 48.7" (LT)
Ls = 200.00'	D = 0° 59' 59.7"
LT = 133.34'	L = 4,420.01'
ST = 66.67'	T = 2,326.53'
	R = 5,730.00'
	SE = .04

-Y4RPB-

PIs Sta 11+26.24	PI Sta 15+64.37
Θs = 1° 03' 28.8"	Δ = 28° 24' 32.1" (LT)
Θs = 4° 17' 52.0"	D = 4° 05' 33.2"
Ls = 210.00'	L = 694.16'
LT = 126.24'	T = 354.37'
ST = 83.90'	R = 1,400.00'
	SE = .08

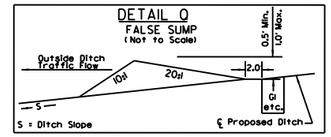


FROM STA. 53+00 TO STA. 56+00 -L- (LT)

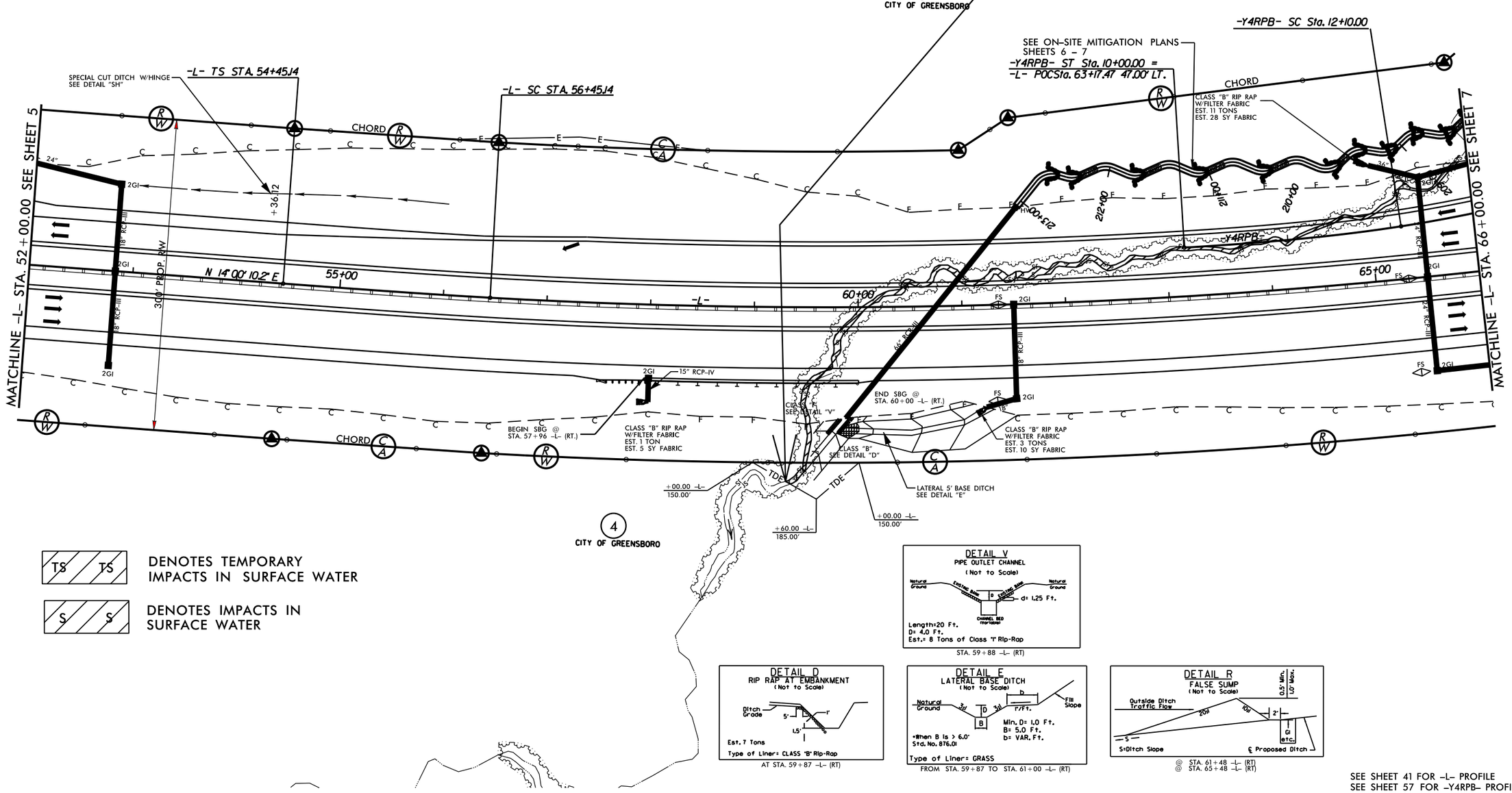


Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

@ STA. 61+48 -L- (MED)
@ STA. 65+48 -L- (MED)



@ STA. 65+48 -L- (LT)



STA. 59+88 -L- (RT)

AT STA. 59+87 -L- (RT)

FROM STA. 59+87 TO STA. 61+00 -L- (RT)

@ STA. 61+48 -L- (RT)
@ STA. 65+48 -L- (RT)

SEE SHEET 41 FOR -L- PROFILE
SEE SHEET 57 FOR -Y4RPB- PROFILE

5/14/99
$$$$$$SYSTIME$$$$$$
$$$$$$

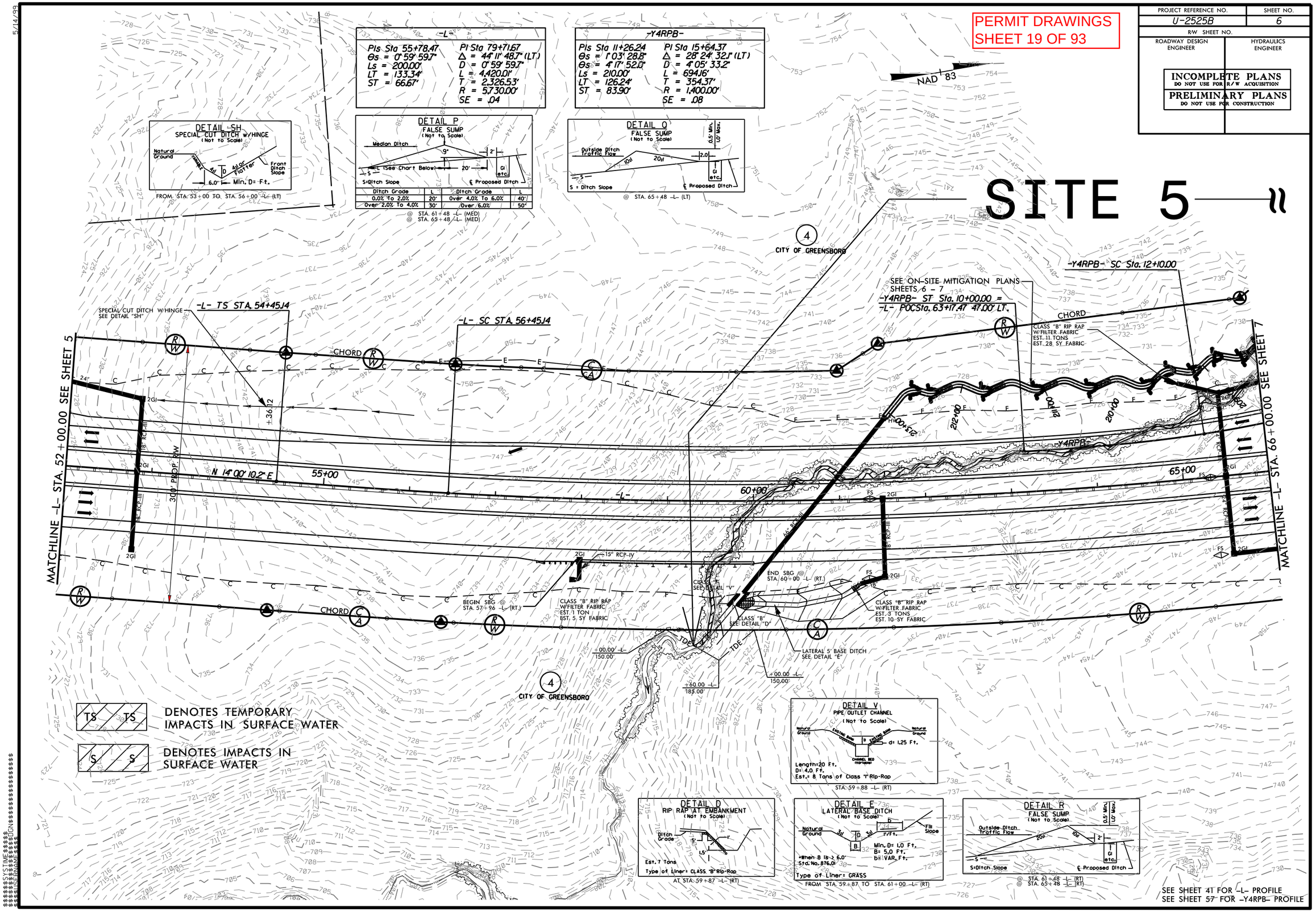
5/14/99

PERMIT DRAWINGS
SHEET 19 OF 93

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



$$$$$$SYSTIME$$$$$$
$$$$$$FILENAME$$$$$$