09/08/99

TIP PROJECT: R-5751

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5751	1	24

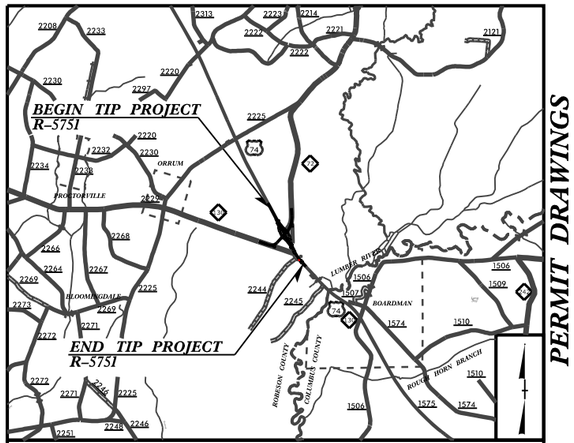
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
53087.1.1	NHP-0074(203)	PE

PERMIT DRAWING
SHEET 1 OF 24

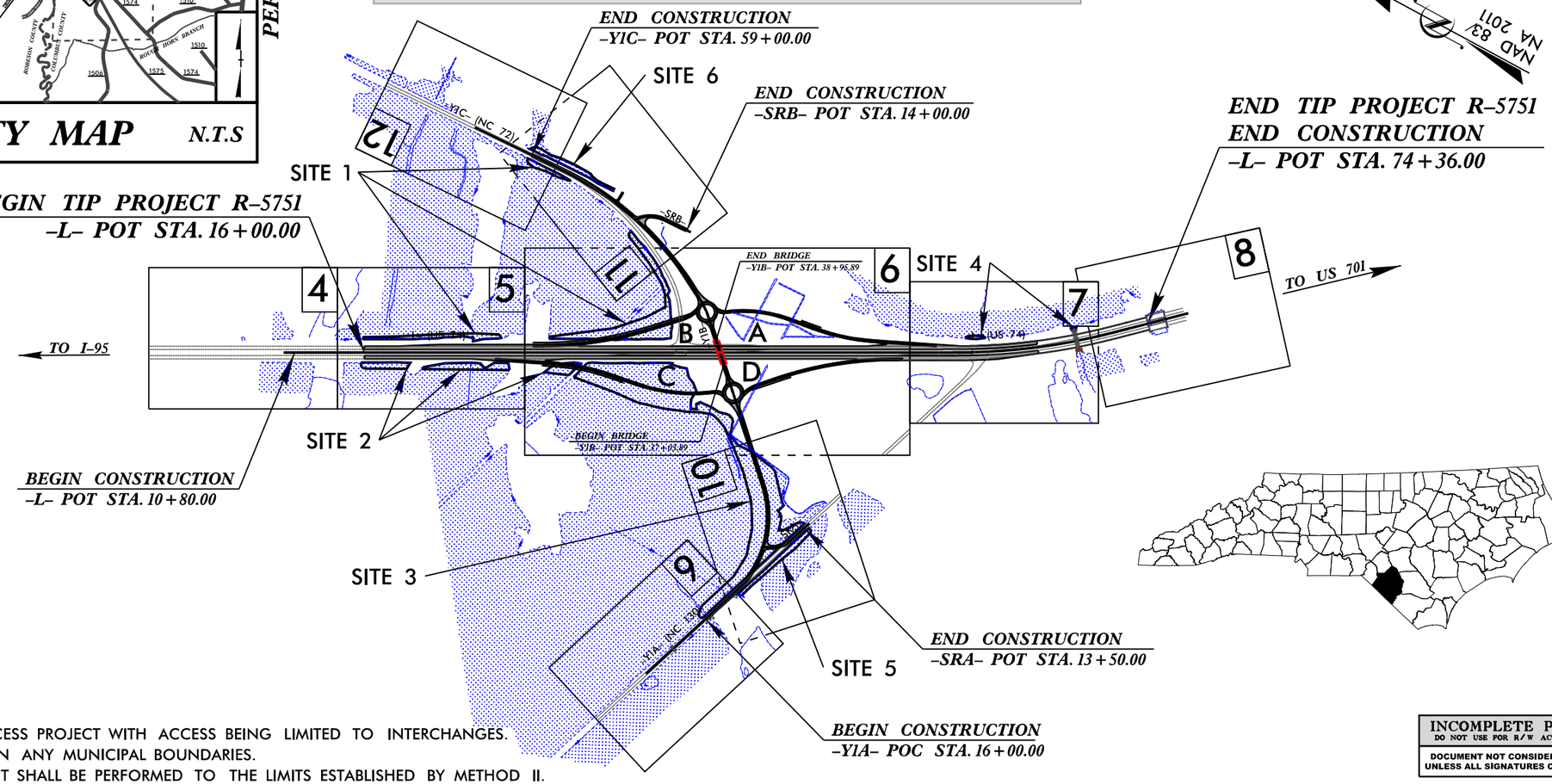
LOCATION: US 74 AT NC 72 /NC 130
CONVERT INTERSECTION TO INTERCHANGE
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

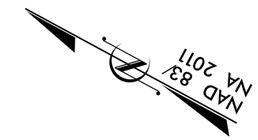
WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWINGS



VICINITY MAP N.T.S





THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT:

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 2022 = 20,300
ADT 2042 = 30,000
K = 8 %
D = 55 %
T = 19 % *
V = 75 MPH
*(TTST=12% + DUAL=7%)
FUNC CLASS =
FUTURE INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5751 = 1.105 MILES
TOTAL LENGTH TIP PROJECT R-5751 = 1.105 MILES

PREPARED IN THE OFFICE OF:
RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

PREPARED FOR:
DIVISION OF HIGHWAYS
DIVISION 6
558 Gillespie St.
Fayetteville, NC 28301
910-364-0603

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 30, 2021

LETTING DATE:
JANUARY 17, 2023

JARED BOND, PE
PROJECT ENGINEER

SEAN KANE, EI
PROJECT DESIGN ENGINEER

ALEX HENDERSON
NCDOT CONTACT

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

19-MAY-2021 15:35
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PROJECT REFERENCE NO.	SHEET NO.
R-5751	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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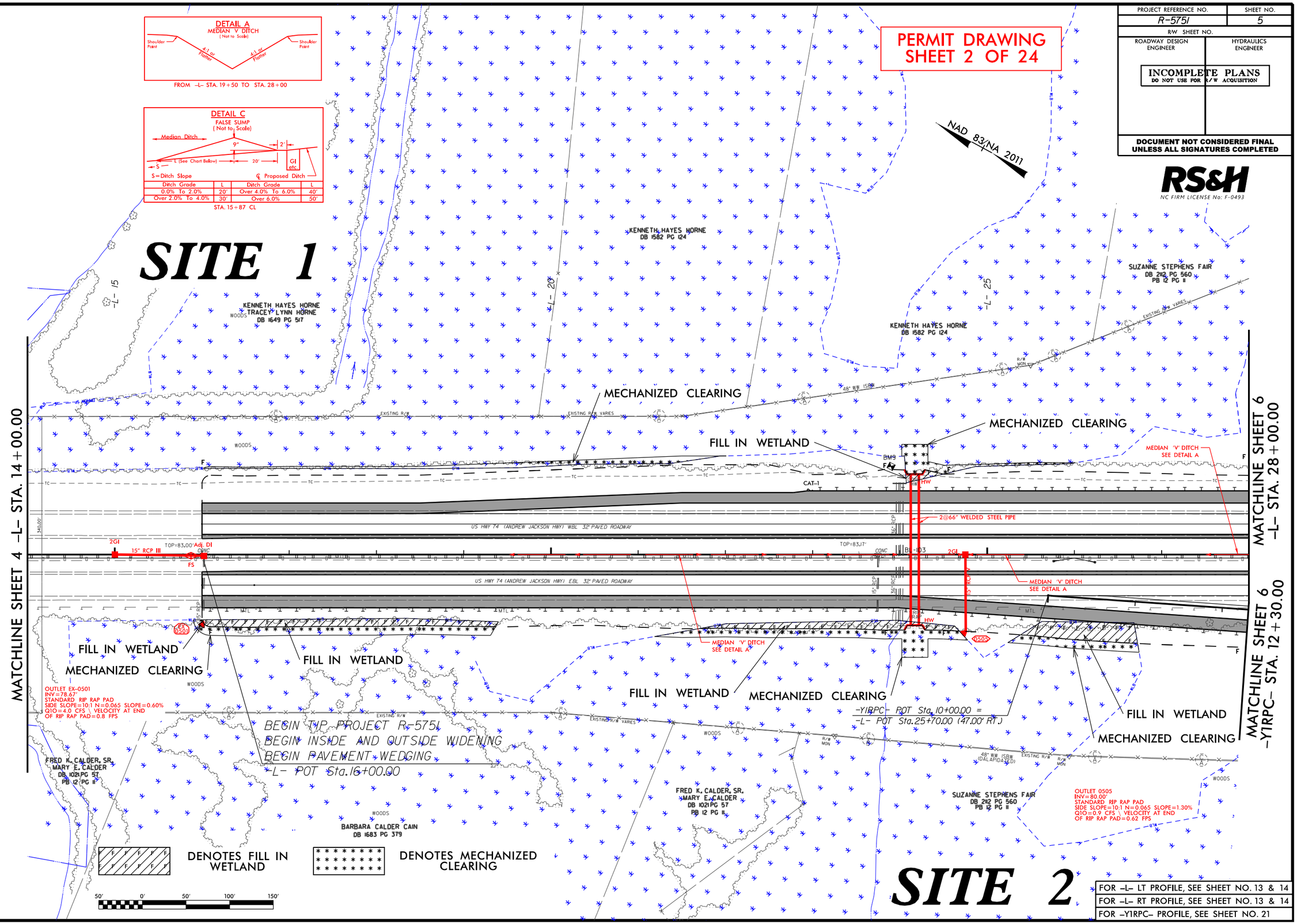
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 2 OF 24

NAD 83/NA 2011



FOR -L- LT PROFILE, SEE SHEET NO. 13 & 14	
FOR -L- RT PROFILE, SEE SHEET NO. 13 & 14	
FOR -Y1RPC- PROFILE, SEE SHEET NO. 21	

8/17/99

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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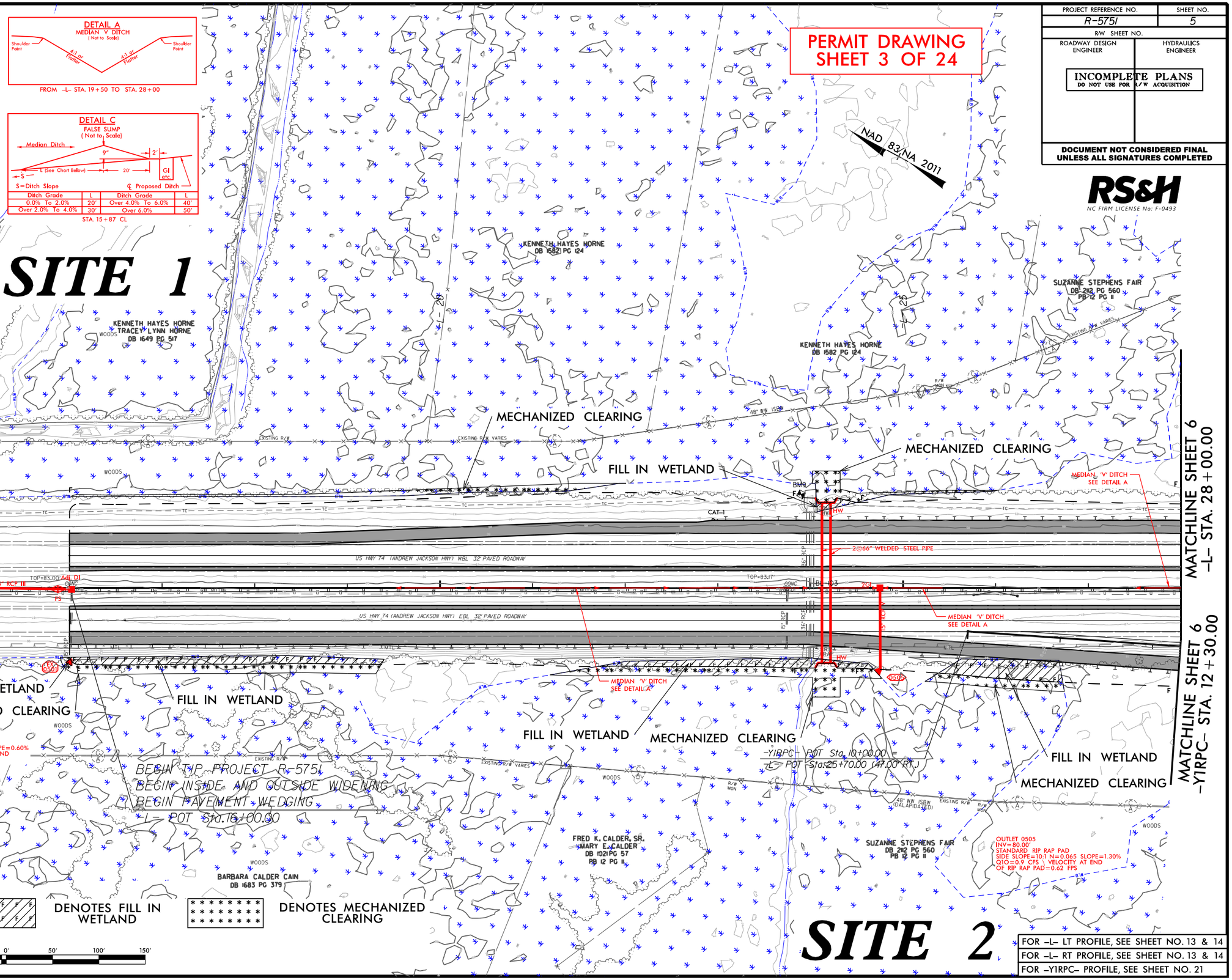
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 3 OF 24

NAD 83/NA 2011



FOR -L- LT PROFILE, SEE SHEET NO. 13 & 14
FOR -L- RT PROFILE, SEE SHEET NO. 13 & 14
FOR -Y1RPC- PROFILE, SEE SHEET NO. 21

REVISIONS
8/17/99

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5751	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

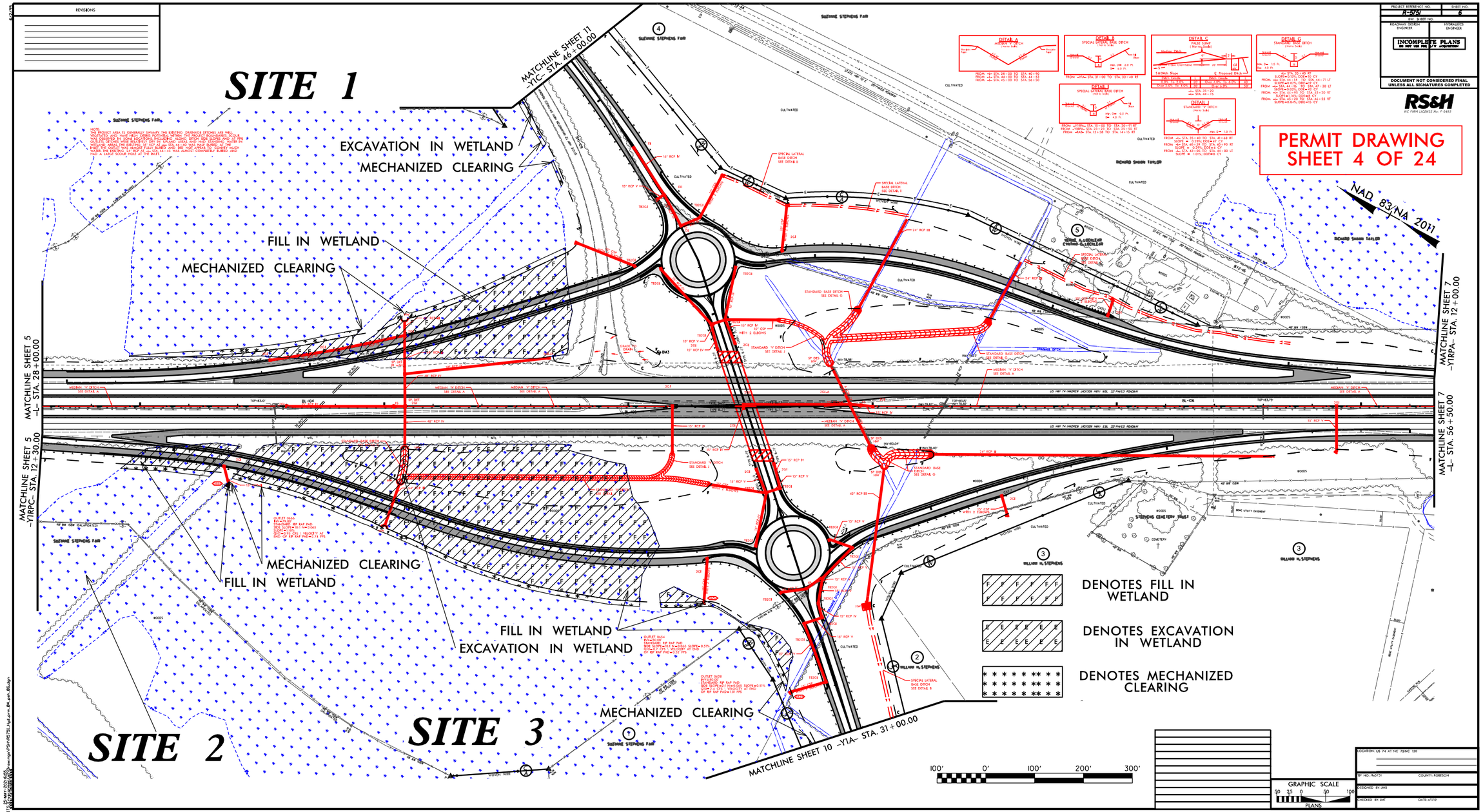
INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE NO. F-0893

PERMIT DRAWING
SHEET 4 OF 24

NAD 83/NA 2011



GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: US 74 AT NC 72/NC 130
TIP NO. R-5751 COUNTY: ROBESON
DESIGNED BY: JMB
CHECKED BY: JMT DATE: 4/1/19

REVISIONS

PROJECT REFERENCE NO. R-5701 | SHEET NO. 6

R/W SHEET NO.

ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE NO. F-0893

PERMIT DRAWING
SHEET 5 OF 24

NAD 83/NA 2011

SITE 1

SITE 2

SITE 3

EXCAVATION IN WETLAND
MECHANIZED CLEARING

FILL IN WETLAND
MECHANIZED CLEARING

MECHANIZED CLEARING
FILL IN WETLAND

FILL IN WETLAND
EXCAVATION IN WETLAND

MECHANIZED CLEARING

MATCHLINE SHEET 11
-Y1C- STA. 46+00.00

MATCHLINE SHEET 5
-L- STA. 28+00.00

MATCHLINE SHEET 5
-Y1RPC- STA. 12+50.00

MATCHLINE SHEET 7
-L- STA. 12+00.00

MATCHLINE SHEET 7
-L- STA. 56+50.00

MATCHLINE SHEET 10
-Y1A- STA. 31+00.00

DETAIL A
MEDIAN "V" DITCH
(Not to Scale)

DETAIL B
SPECIAL LATERAL BASE DITCH
(Not to Scale)

DETAIL C
FALSE SUMP
(Not to Scale)

DETAIL G
STANDARD BASE DITCH
(Not to Scale)

DETAIL F
SPECIAL LATERAL BASE DITCH
(Not to Scale)

DETAIL I
STANDARD "V" DITCH
(Not to Scale)

DENOTES FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES MECHANIZED CLEARING

100' 0' 100' 200' 300'

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: US 74 AT NC 72/NC 130

TIP NO. R-5701 | COUNTY: ROBESON

DESIGNED BY: JMB

CHECKED BY: JMT | DATE: 4/1/19

PROJECT REFERENCE NO.	SHEET NO.
R-5751	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

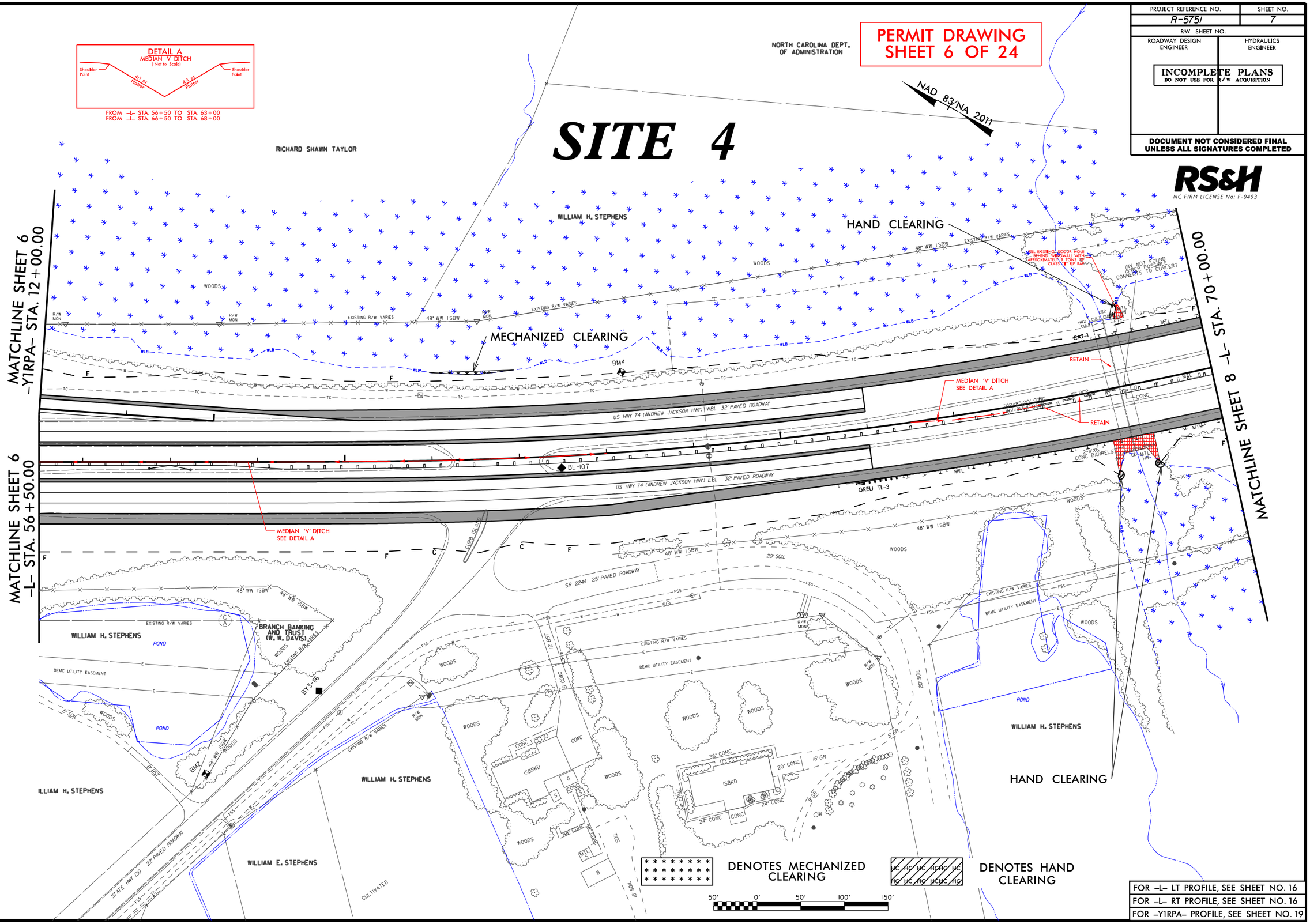
RS&H
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 6 OF 24

NORTH CAROLINA DEPT. OF ADMINISTRATION

NAD 83/NA 2011

SITE 4



FOR -L- LT PROFILE, SEE SHEET NO. 16
FOR -L- RT PROFILE, SEE SHEET NO. 16
FOR -Y1RPA- PROFILE, SEE SHEET NO. 19

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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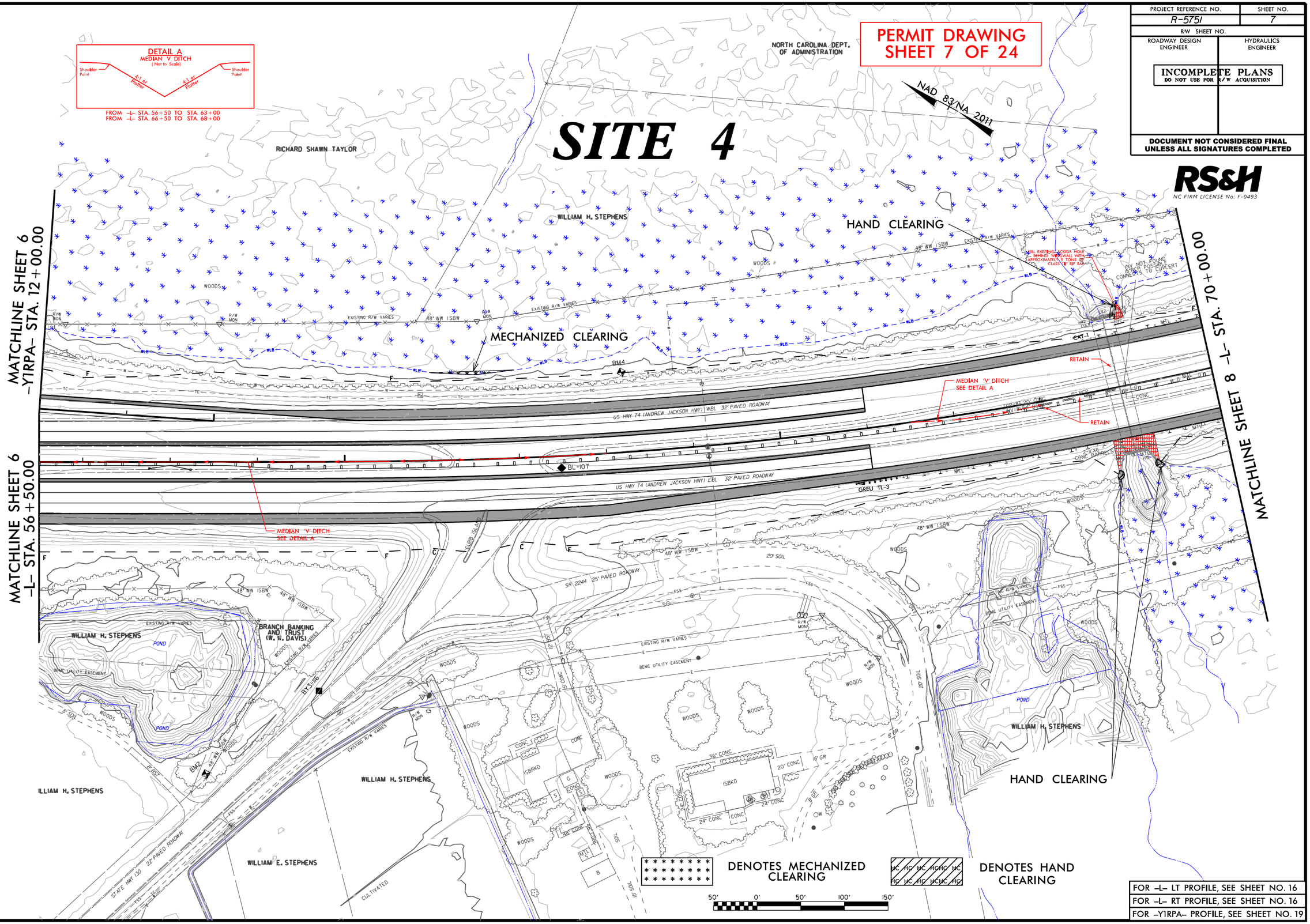
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 7 OF 24

SITE 4



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FOR -L- RT PROFILE, SEE SHEET NO. 16
FOR -Y1RPA- PROFILE, SEE SHEET NO. 19

REVISIONS 8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 8 OF 24

SITE 3

SUZANNE STEPHENS FAIR

WILLIAM H. STEPHENS

JULIA F. SMITH
ANNE F. RICH

WOODS

WOOD

FILL IN WETLAND
EXCAVATION IN WETLAND
MECHANIZED CLEARING

SPECIAL LATERAL BASE DITCH
SEE DETAIL C

INV=72.99'
(BOTTOM OF PIPE DILAPIDATED)
95"x67" CMAP

INV=74.05'

EXISTING R/W

MTL HW

STATE HWY 130 22' PAVED ROADWAY

RETAIN

INV=73.99'
95"x67" CMAP

INV=74.10'

SHALLOW POND

INDIAN LAND FARM XIV, LLC

SPECIAL LATERAL
'V' DITCH
SEE DETAIL H

TONY BRITT ET UX
GLADYS MARIE BRITT

ISFD

POND

36" WD RAIL

0.30%

MATCHLINE SHEET 10 –Y1A– STA. 19+00.00

DENOTES FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES MECHANIZED CLEARING

50' 0' 50' 100' 150'

DETAIL H
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground — 3:1 — D — 6:1 — Fill Slope

Min. D = VARIES; SEE XSC

FROM –Y1A– STA. 16+55 TO STA. 18+62 RT

DETAIL C
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground — 3:1 — D — B — 6:1 or Flatter — Fill Slope

Min. D = 2.0 Ft.
B = 6.0 Ft.

FROM –Y1A– STA. 16+00 TO STA. 19+00 LT

FOR –Y1A– PROFILE, SEE SHEET NO. 17

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 9 OF 24

SITE 3

SUZANNE STEPHENS FAIR

WILLIAM H. STEPHENS

JULIA F. SMITH
ANNE F. RICH

WOODS

FILL IN WETLAND
EXCAVATION IN WETLAND
MECHANIZED CLEARING

SPECIAL LATERAL BASE DITCH
SEE DETAIL C

(INV=72.99' (BOTTOM OF PIPE DILAPIDATED)
95"x67" CMAP

STATE HWY 130 22' PAVED ROADWAY

RETAIN

INV=75.99' INV=74.10'
95"x67" CMAP

SHALLOW POND

INDIAN LAND FARM XIV, LLC

SPECIAL LATERAL
'V' DITCH
SEE DETAIL H

TONY BRITT ET UX
GLADYS MARIE BRITT

ISFD

POND

MATCHLINE SHEET 10 –Y1A– STA. 19+00.00

0.30%

DENOTES FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES MECHANIZED CLEARING

50' 0' 50' 100' 150'

DETAIL H
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 4:1, D, 4:1, Fill Slope
Min. D= VARIES; SEE XSC

FROM –Y1A– STA. 16+55 TO STA. 18+62 RT

DETAIL C
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 4:1 or Flatter, Fill Slope, B
Min. D= 2.0 Ft.
B= 6.0 Ft.

FROM –Y1A– STA. 16+00 TO STA. 19+00 LT

FOR –Y1A– PROFILE, SEE SHEET NO. 17

8/17/99

REVISIONS

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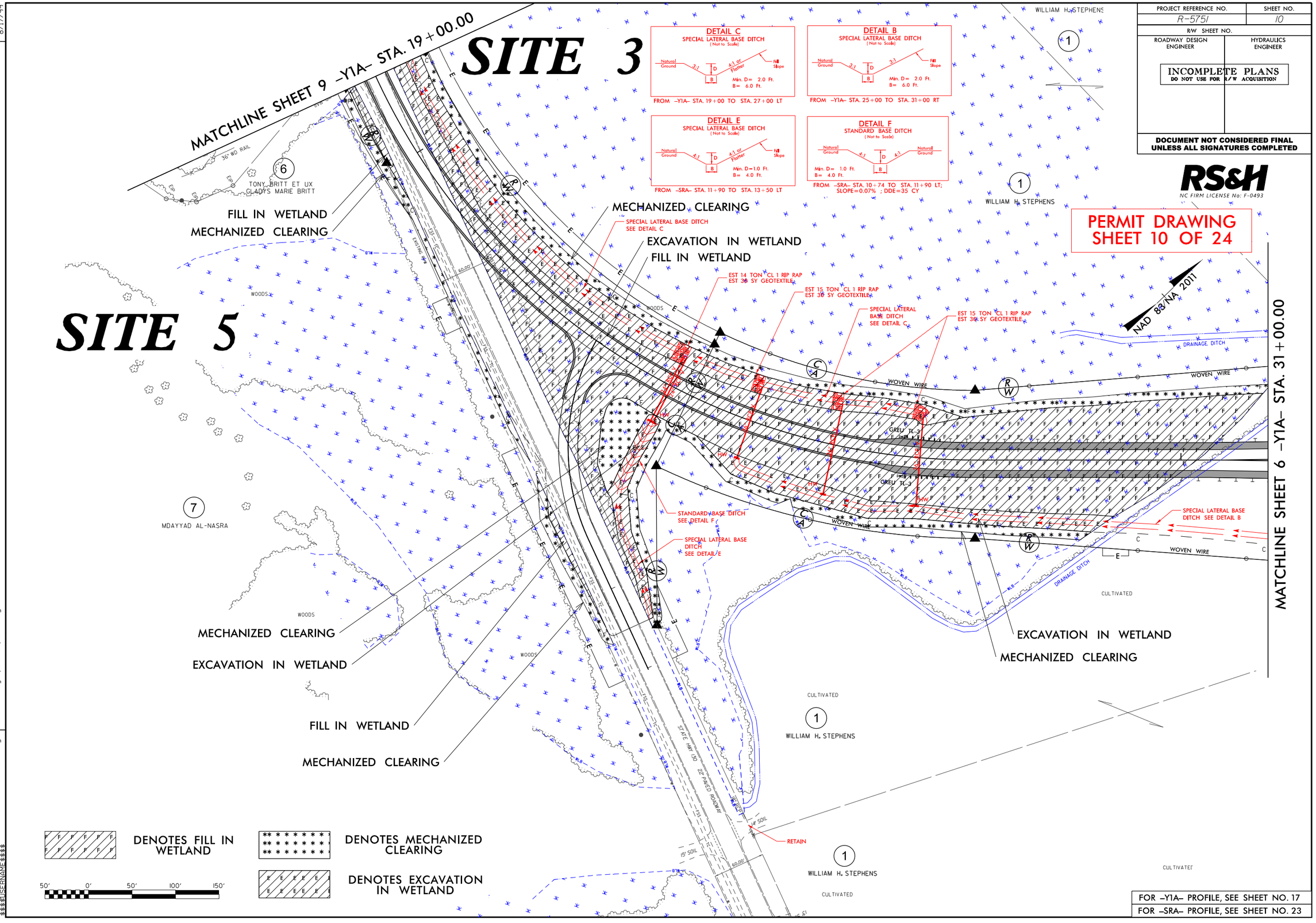
PROJECT REFERENCE NO.	SHEET NO.
R-5751	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 10 OF 24



FOR -Y1A- PROFILE, SEE SHEET NO. 17
FOR -SRA- PROFILE, SEE SHEET NO. 23

REVISIONS
8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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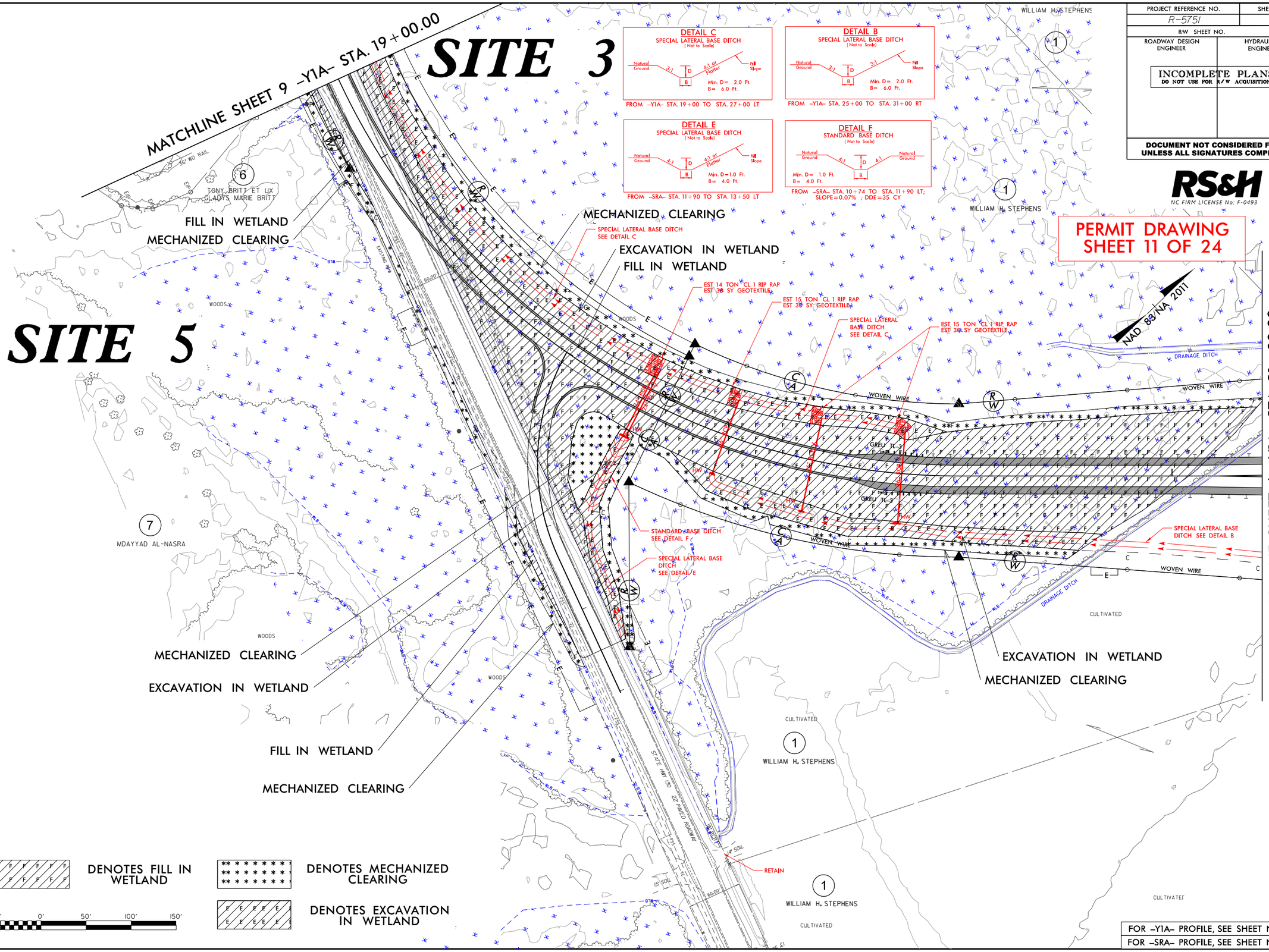
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 11 OF 24



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FOR -SRA- PROFILE, SEE SHEET NO. 23

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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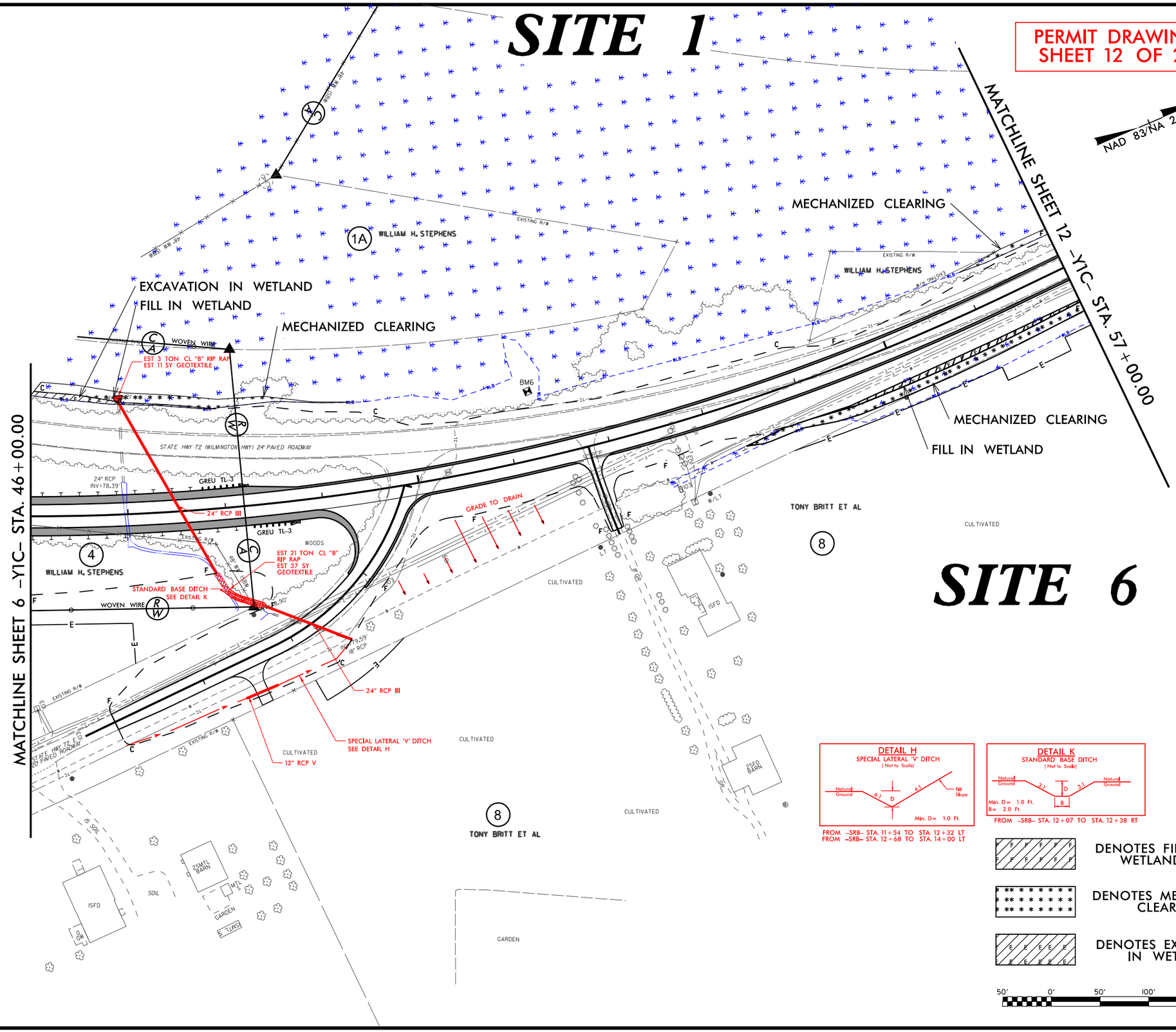
PERMIT DRAWING
SHEET 12 OF 24

NAD 83/NA 2011

SITE 1



SITE 6

DETAIL H
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

FROM -SRB- STA. 11+54 TO STA. 12+32 LT
FROM -SRB- STA. 12+68 TO STA. 14+00 LT

DETAIL K
STANDARD BASE DITCH
(Not to Scale)

FROM -SRB- STA. 12+07 TO STA. 12+38 RT

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

DENOTES EXCAVATION IN WETLAND

50' 0' 50' 100' 150'

FOR -Y1C- PROFILE, SEE SHEET NO. 18 & 19
FOR -SRB- PROFILE, SEE SHEET NO. 23
FOR -DR1- PROFILE, SEE SHEET NO. 24

REVISIONS

8/17/99

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SITE 1

PERMIT DRAWING
SHEET 13 OF 24

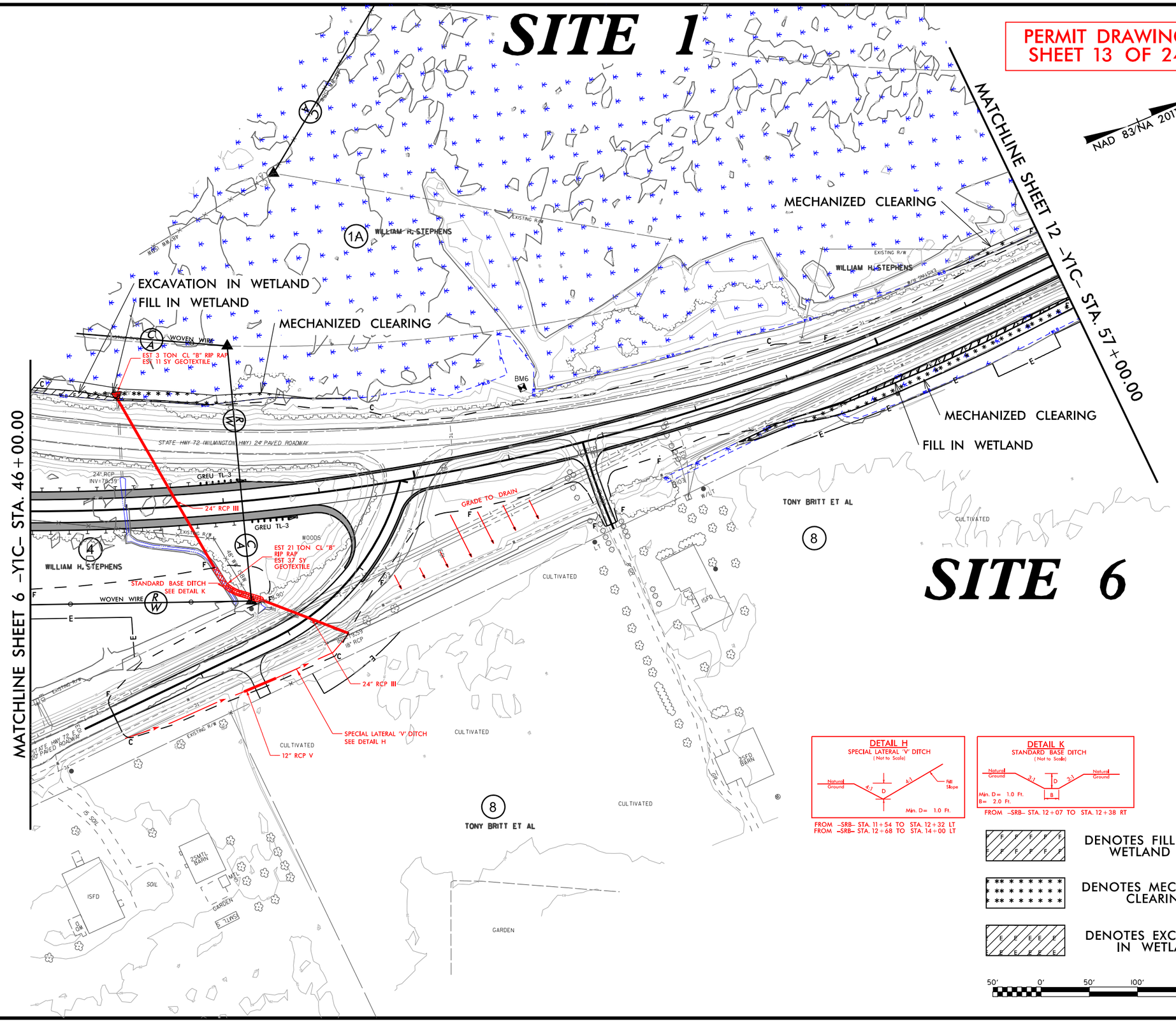
PROJECT REFERENCE NO.	SHEET NO.
R-5751	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

NAD 83/NA 2011



SITE 6

DETAIL H
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

FROM -SRB- STA. 11+54 TO STA. 12+32 LT
FROM -SRB- STA. 12+68 TO STA. 14+00 LT

DETAIL K
STANDARD BASE DITCH
(Not to Scale)

FROM -SRB- STA. 12+07 TO STA. 12+38 RT

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

DENOTES EXCAVATION IN WETLAND

50' 0' 50' 100' 150'

FOR -Y1C- PROFILE, SEE SHEET NO. 18 & 19
FOR -SRB- PROFILE, SEE SHEET NO. 23
FOR -DR1- PROFILE, SEE SHEET NO. 24

8/17/99

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

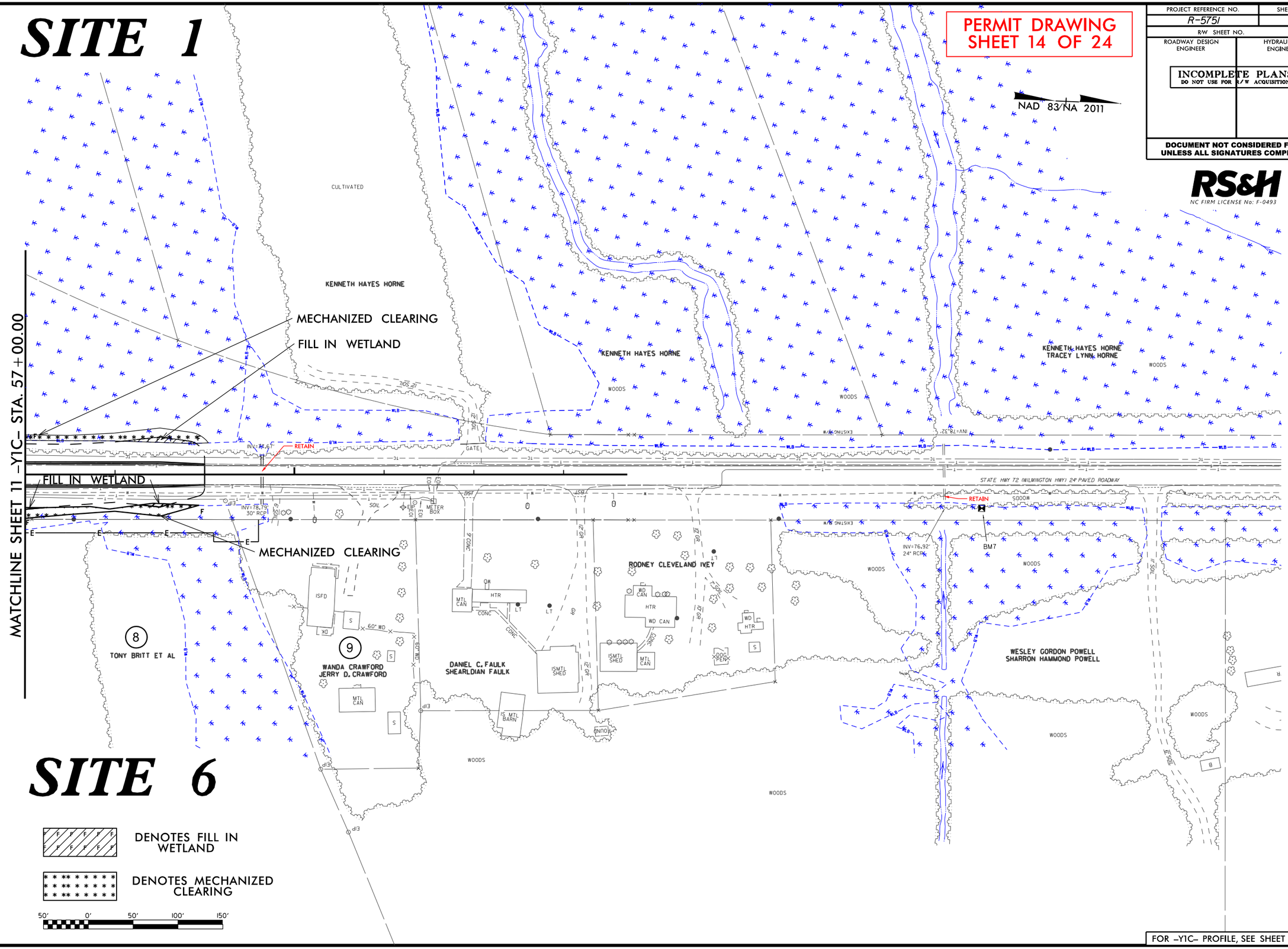
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 14 OF 24

NAD 83/NA 2011



FOR -Y1C- PROFILE, SEE SHEET NO. 19

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5751	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

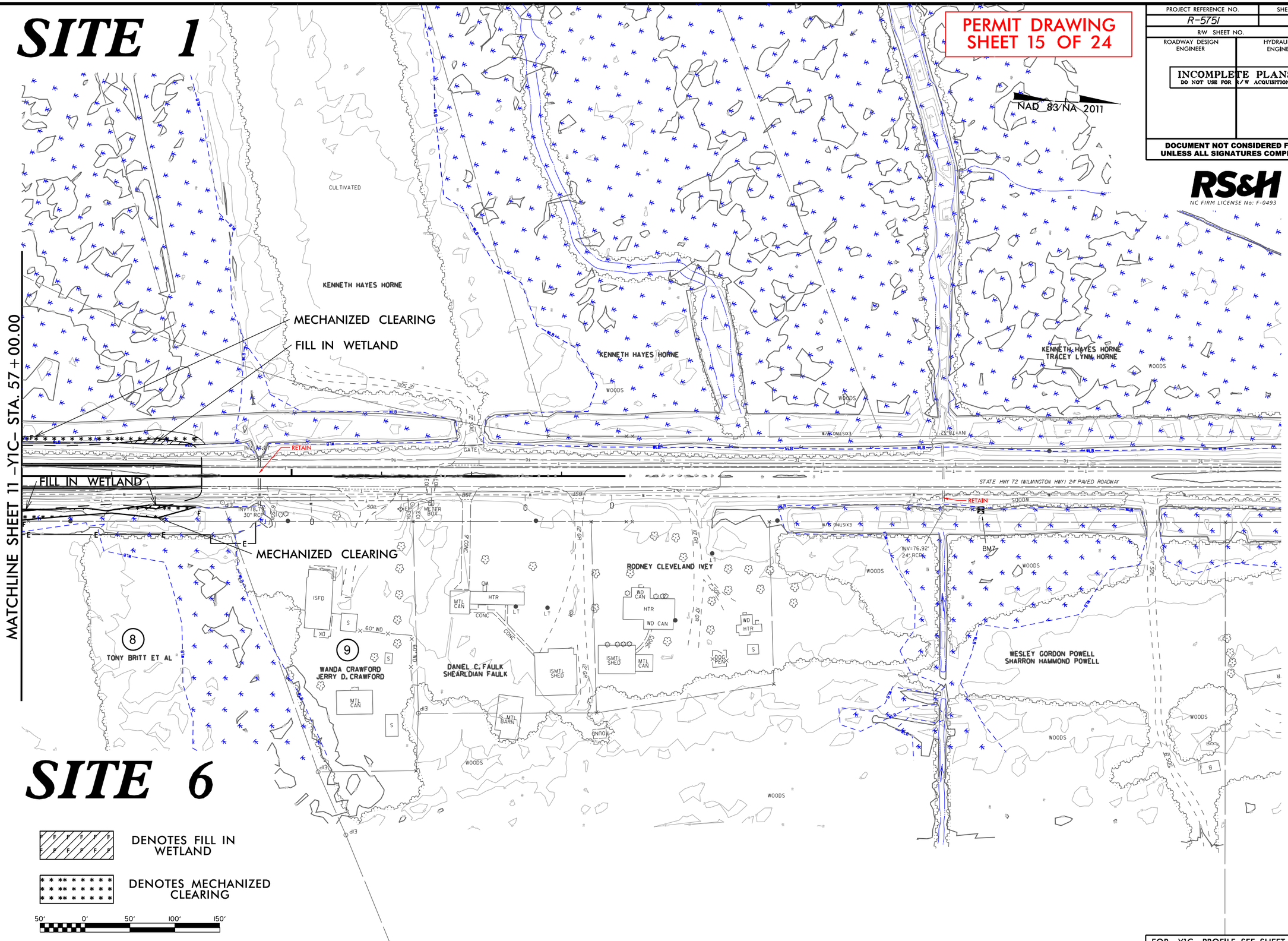
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

PERMIT DRAWING
SHEET 15 OF 24

NAD 83/NA 2011

SITE 1



SITE 6

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

50' 0' 50' 100' 150'

FOR -Y1C- PROFILE, SEE SHEET NO. 19

REVISIONS

8/17/99

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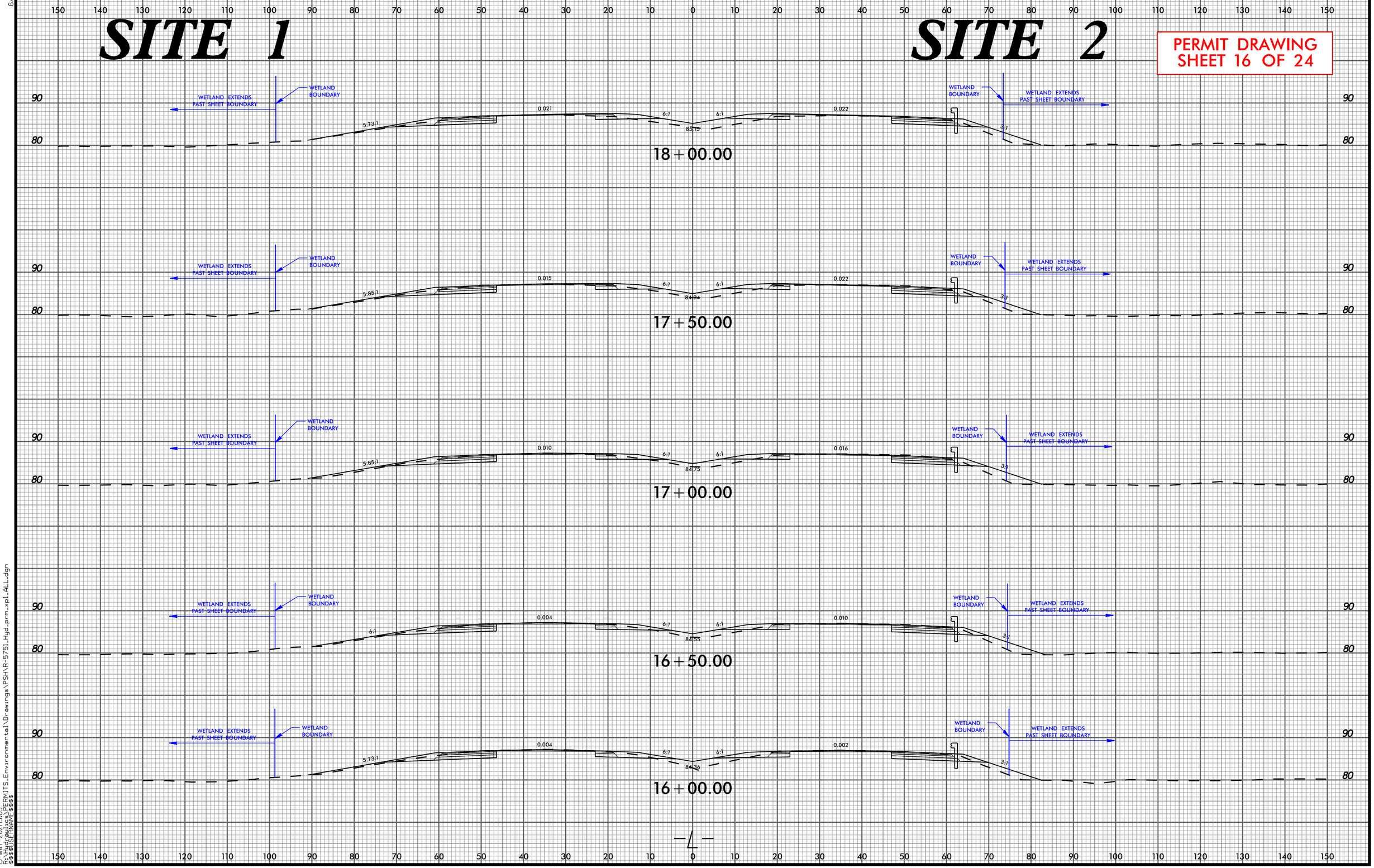
RS&H NC FIRM LICENSE No: F-0493

PROJ. REFERENCE NO.	SHEET NO.
R-5751	X-1

SITE 1

SITE 2

PERMIT DRAWING
SHEET 16 OF 24



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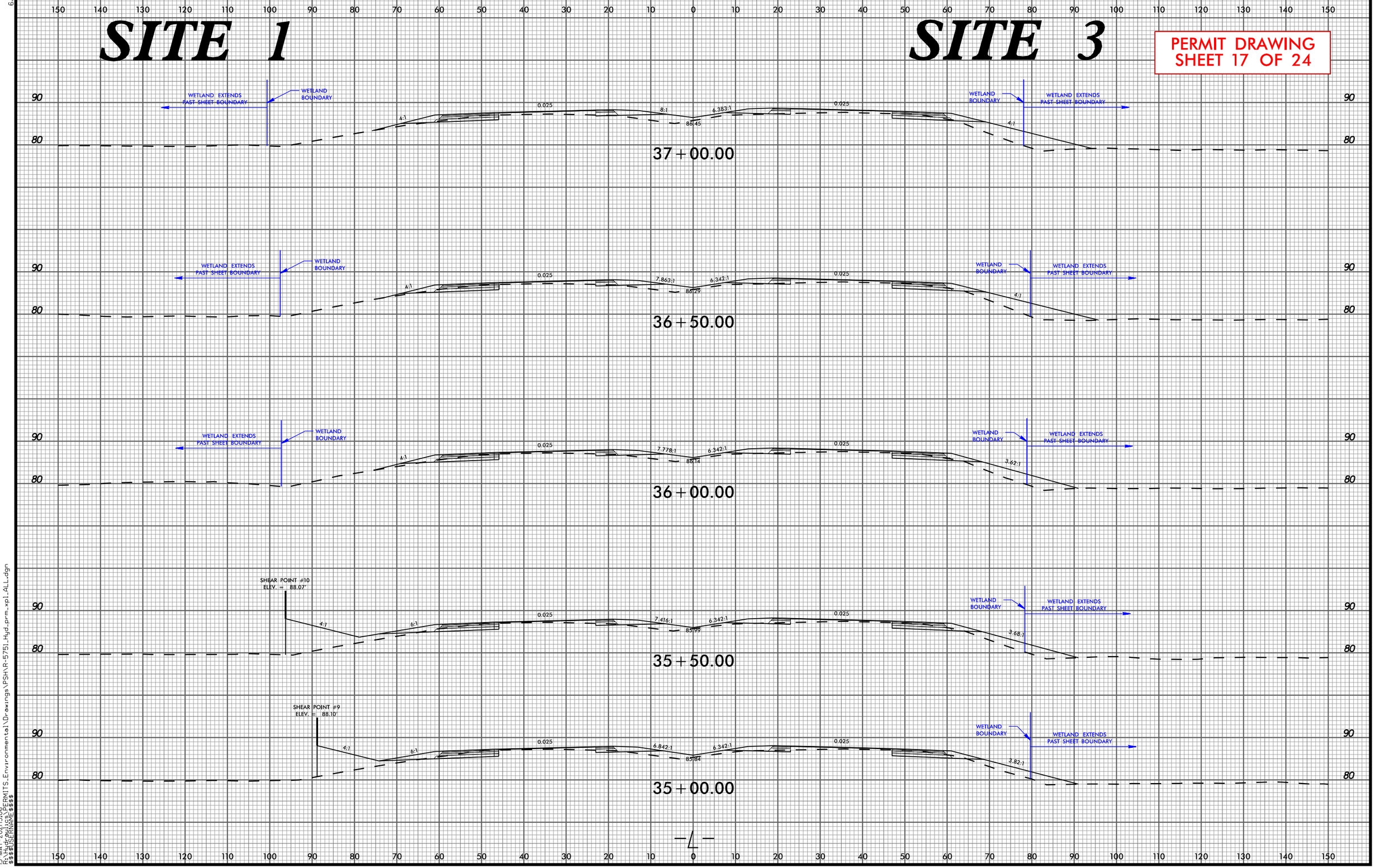
RS&H NC FIRM LICENSE No: F-0493

PROJ. REFERENCE NO.	SHEET NO.
R-5751	X-2

SITE 1

SITE 3

PERMIT DRAWING
SHEET 17 OF 24



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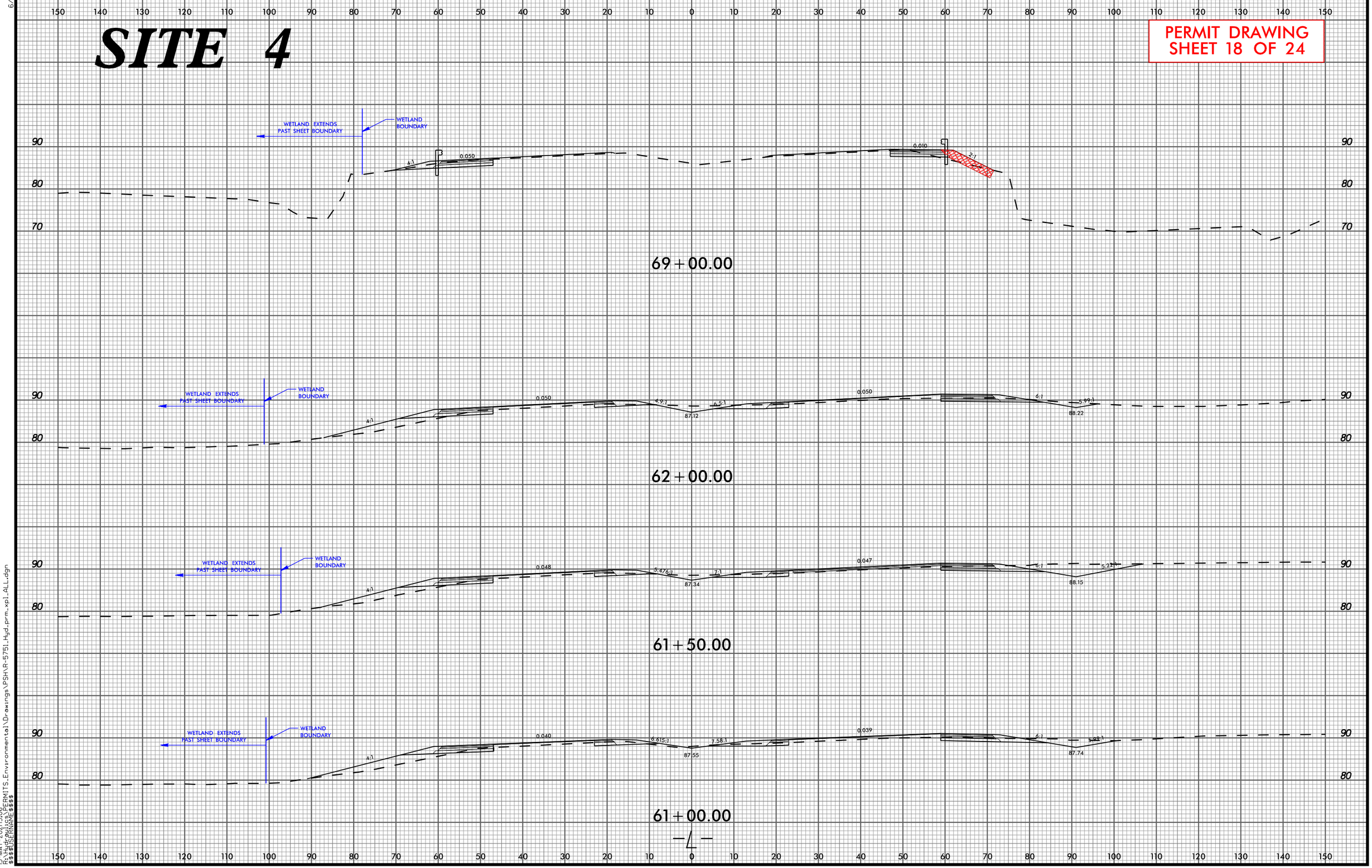
RS&H NC FIRM LICENSE No: F-0493

PROJ. REFERENCE NO.	SHEET NO.
R-5751	X-3

SITE 4

PERMIT DRAWING
SHEET 18 OF 24



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6/23/16

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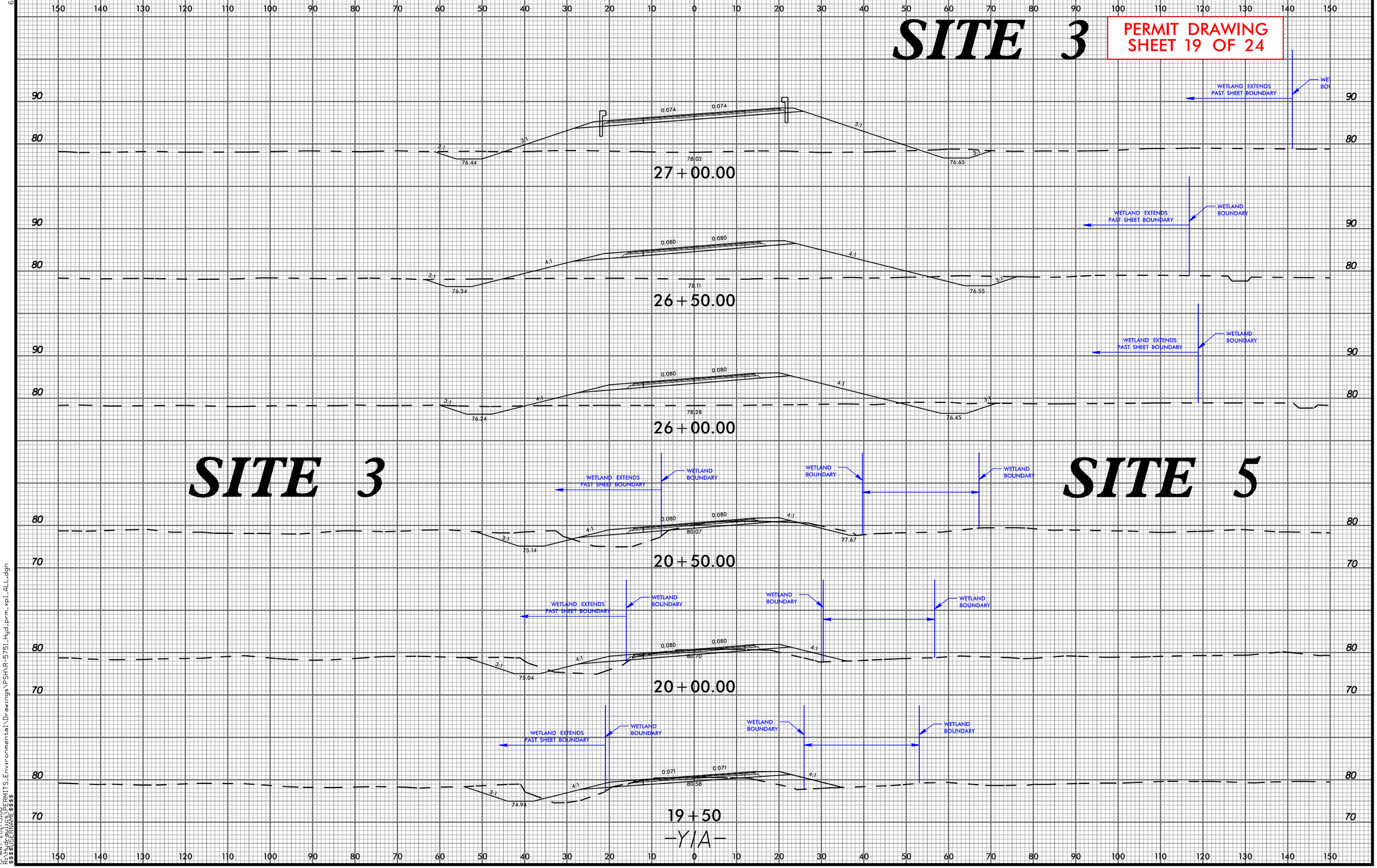
6/23/16

RS&H NC FIRM LICENSE No: F-0493

PROJ. REFERENCE NO.	SHEET NO.
R-5751	X-4

SITE 3

PERMIT DRAWING
SHEET 19 OF 24



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RS&H NC FIRM LICENSE No: F-0493

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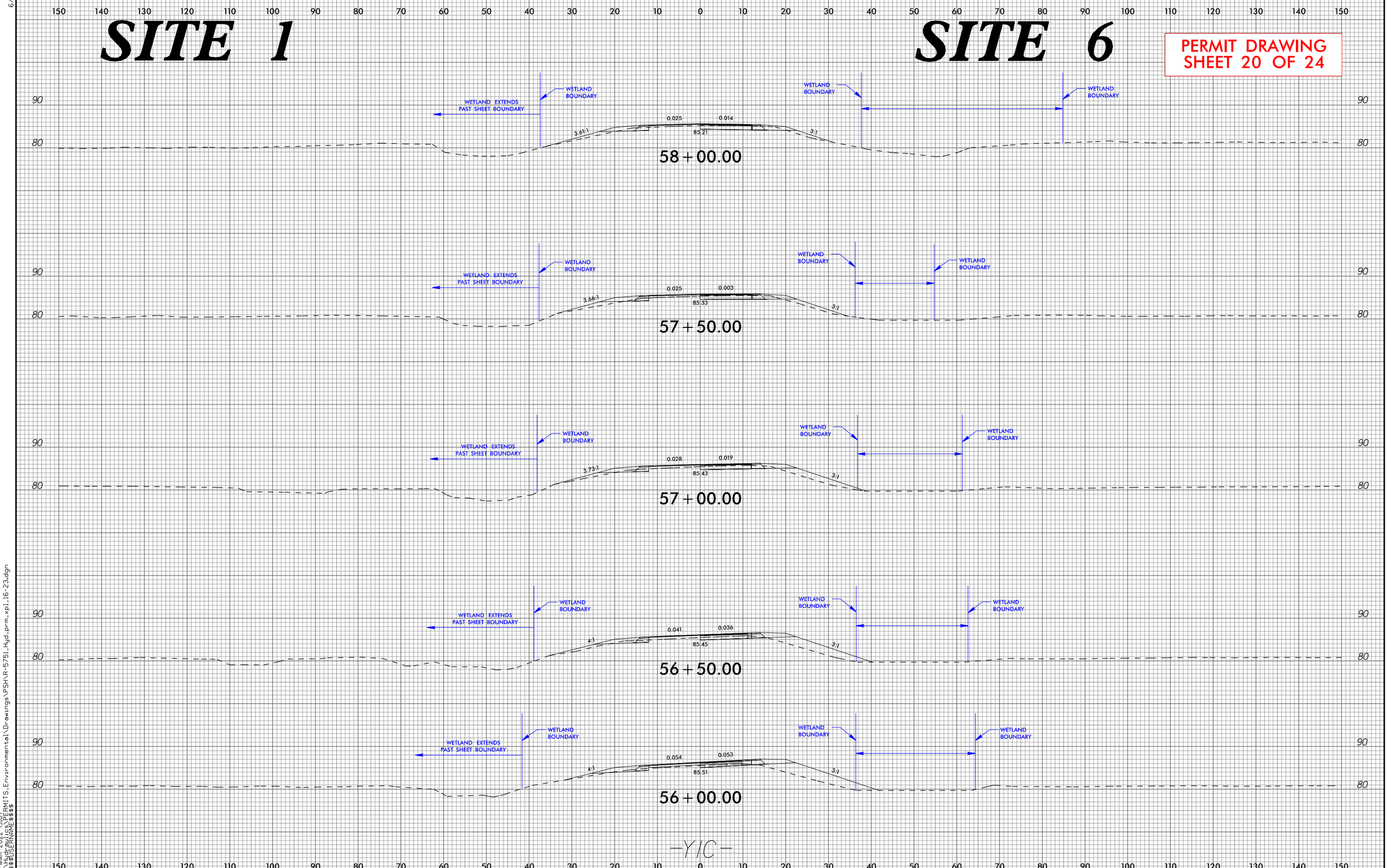
	R-5751	X-5

SITE 1

SITE 6

PERMIT DRAWING
SHEET 20 OF 24



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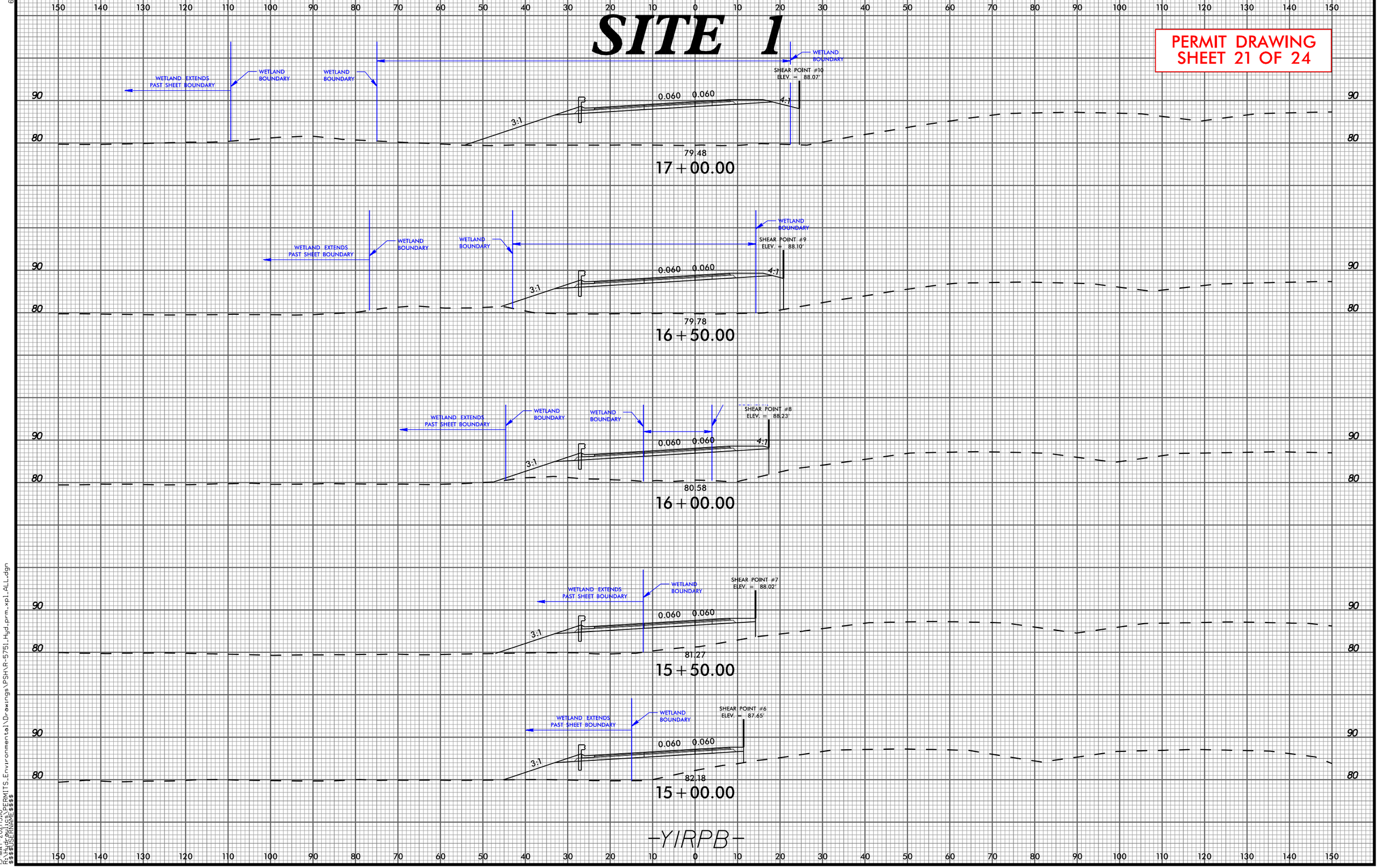
RS&H NC FIRM LICENSE No: F-0493

PROJ. REFERENCE NO.	SHEET NO.
R-5751	X-6

SITE 1

PERMIT DRAWING
SHEET 21 OF 24



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RS&H NC FIRM LICENSE No: F-0493

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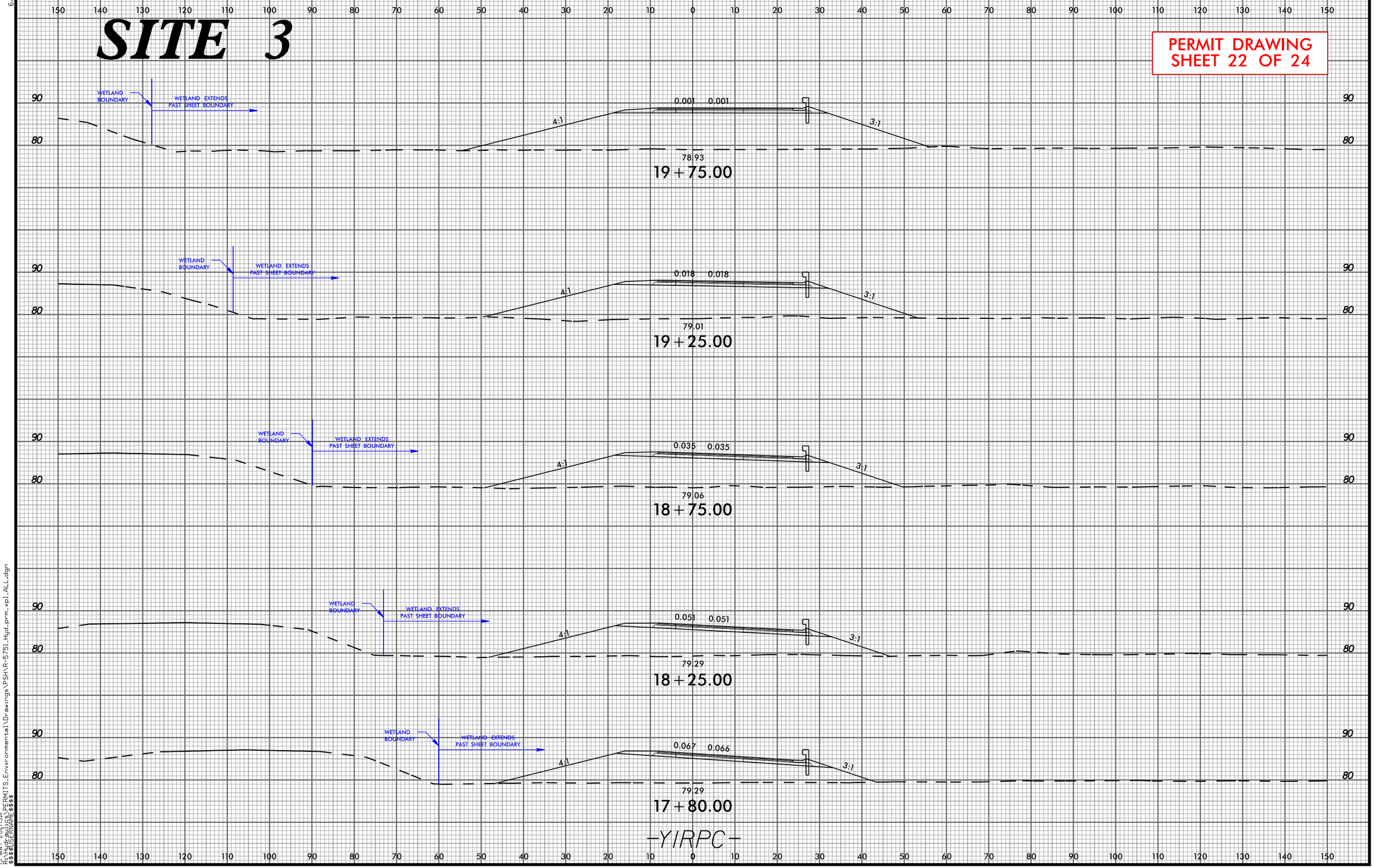
R-5751	X-7

SITE 3

PERMIT DRAWING
SHEET 22 OF 24



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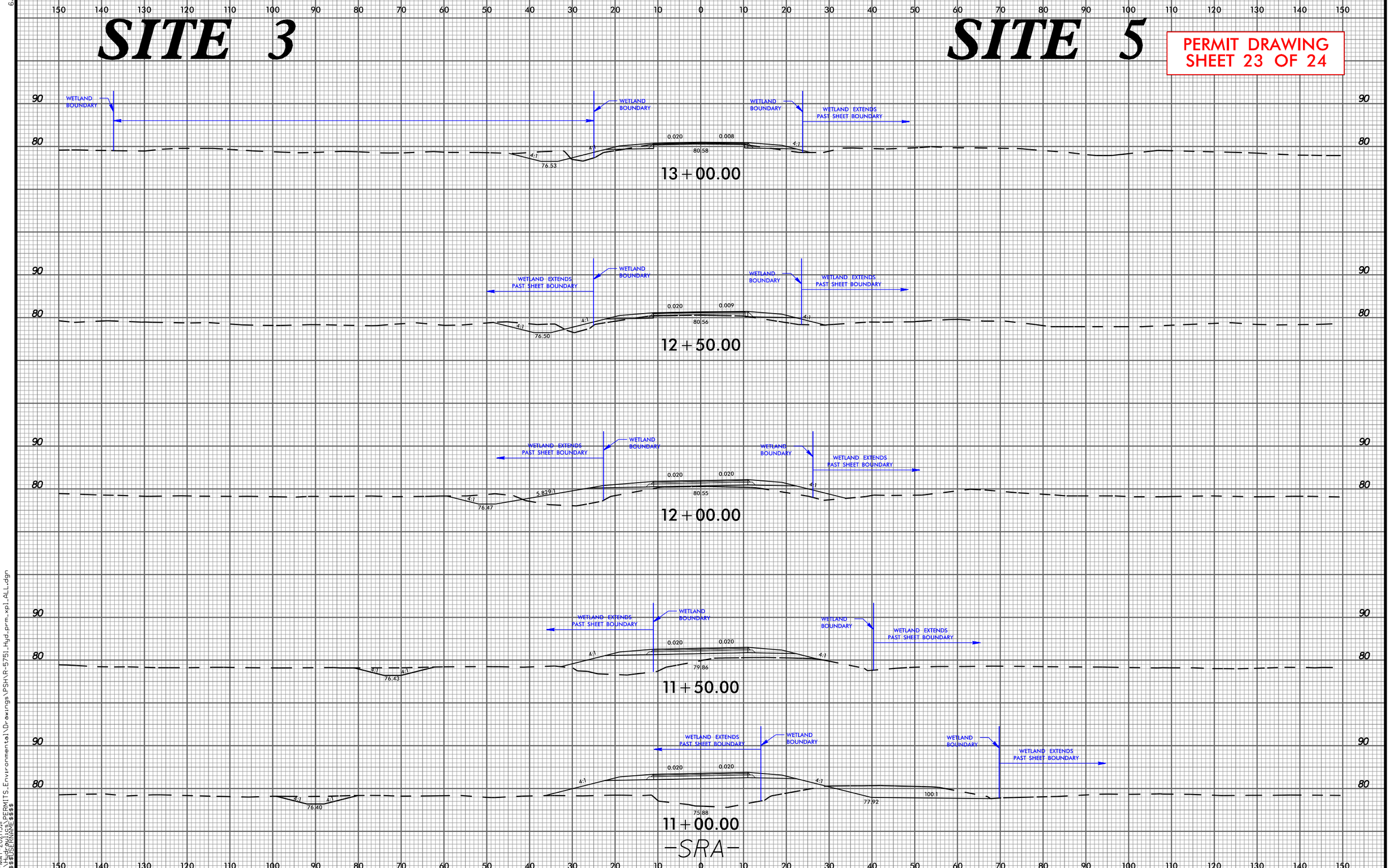
RS&H NC FIRM LICENSE No: F-0493

PROJ. REFERENCE NO.	SHEET NO.
R-5751	X-8

SITE 3

SITE 5

PERMIT DRAWING
SHEET 23 OF 24



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WETLAND AND SURACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- Sta. 16+01 to Sta. 22+01 LT	Proposed Fill Slope				0.054						
1	-L- Sta. 24+02 to Sta. 26+01 LT	Proposed Jack and Bore Pit / Proposed Fill Slope	0.007			0.036						
1	-L- Sta. 29+78 to Sta. 38+85 LT	Proposed Fill Slope	1.361			0.194						
1	-Y1C- Sta. 43+96 to Sta. 49+47 LT	Proposed Cut Slope / Proposed Rip-Rap Pad	0.001		0.017	0.082						
1	-Y1C- Sta. 56+00 to Sta. 59+04 LT	Proposed Fill Slope	0.006			0.050						
2	-L- Sta. 15+90 to Sta. 19+40 RT	Proposed Fill Slope	0.063			0.079						
2	-L- Sta. 21+19 to Sta. 24+78 RT	Proposed Jack and Bore Pit / Proposed Fill Slope	0.048			0.093						
2	-L- Sta. 25+24 to Sta. 26+74 RT	Proposed Fill Slope	0.057			0.033						
2	-L- Sta. 29+60 to Sta. 32+04 RT	Proposed Fill Slope	0.199			0.042						
3	-L- Sta. 31+89 to Sta. 40+63 RT	Proposed Roadway / Fill Slope / Base Ditch	3.819		0.027	0.202						
3	-Y1A- Sta. 15+90 to Sta. 31+20 LT	Proposed Roadway / Fill Slope / Base Ditches	2.232		0.857	0.590						
3	-Y1A- Sta. 32+20 to Sta. 34+84 LT	Proposed Roadway / Fill Slope / Rip-Rap Pad	0.111			0.064						
4	-L- Sta. 60+99 to Sta. 61+98 LT	Proposed Fill Slope				0.005						
4	-L- Sta. 69+02 LT	Proposed Rip-Rap Scour Hole					0.002					
4	-L- Sta. 69+00 RT	Proposed Fill Slope Tie to Existing Headwall					0.003					
5	-Y1A- Sta. 19+01 to Sta. 23+15 RT	Proposed Fill / Proposed Cut Slopes	0.021			0.085						
5	-SRA- Sta. 11+57 to Sta. 13+59 RT	Proposed Fill Slope	0.015			0.045						
6	-Y1C- Sta. 52+85 to Sta. 59+09 RT	Proposed Fill Slope	0.029			0.112						
TOTALS:			7.969		0.901	1.766	0.005					

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
4/25/2022
Robeson County
R-5751
53087.1.1

Revised 2018 Feb