

R-2576 Mid-Currituck Bridge

Attachment 11:

Submerged Aquatic Vegetation (SAV) Impact Drawings

09/28/24

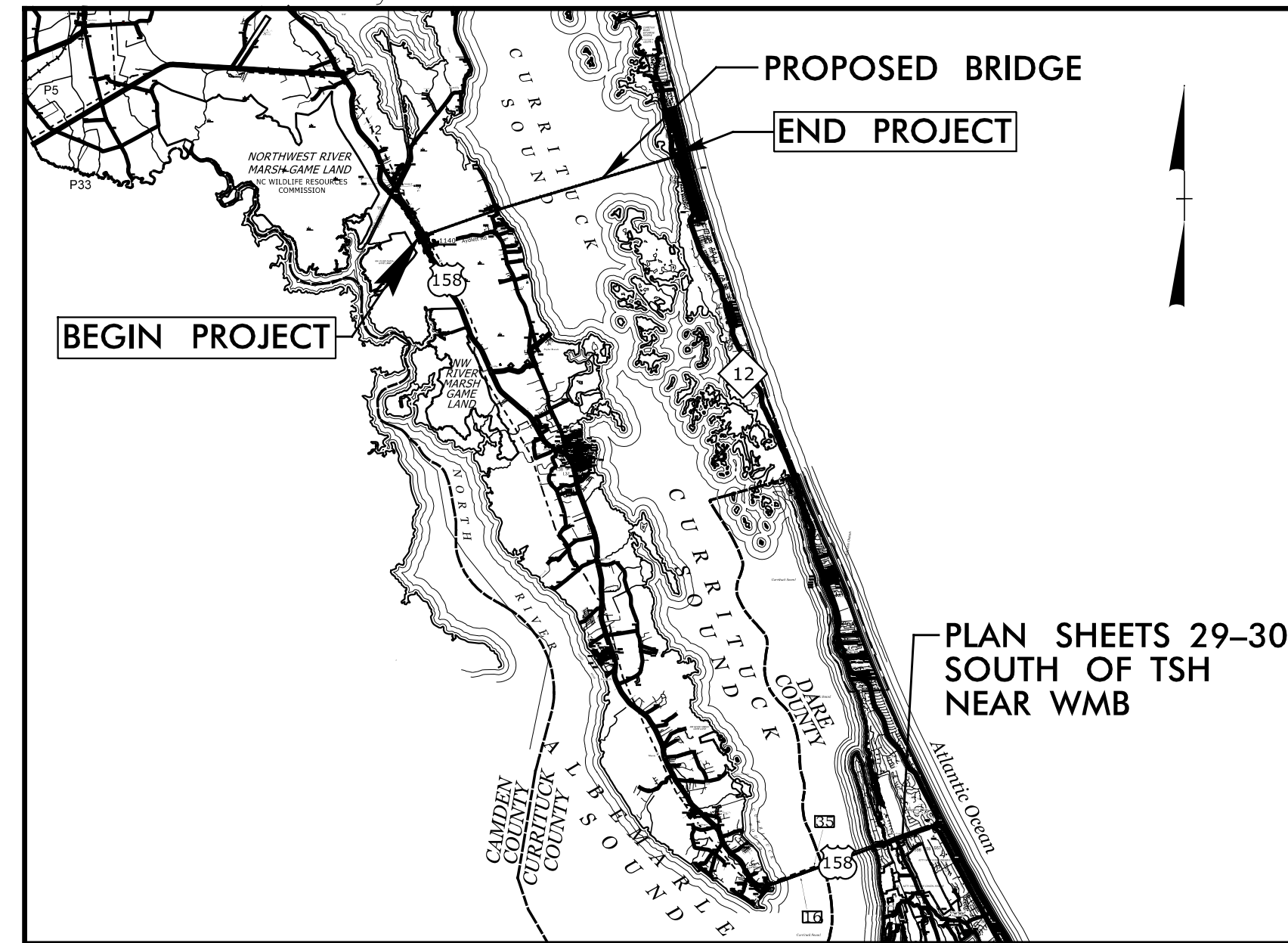
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C For Survey Control Sheet

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2576	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34470.1.TA1	BRSTP-000(494)	P.E.	

SAV IMPACT DRAWING 1 OF 13

TIP PROJECT: R-2576



VICINITY MAP

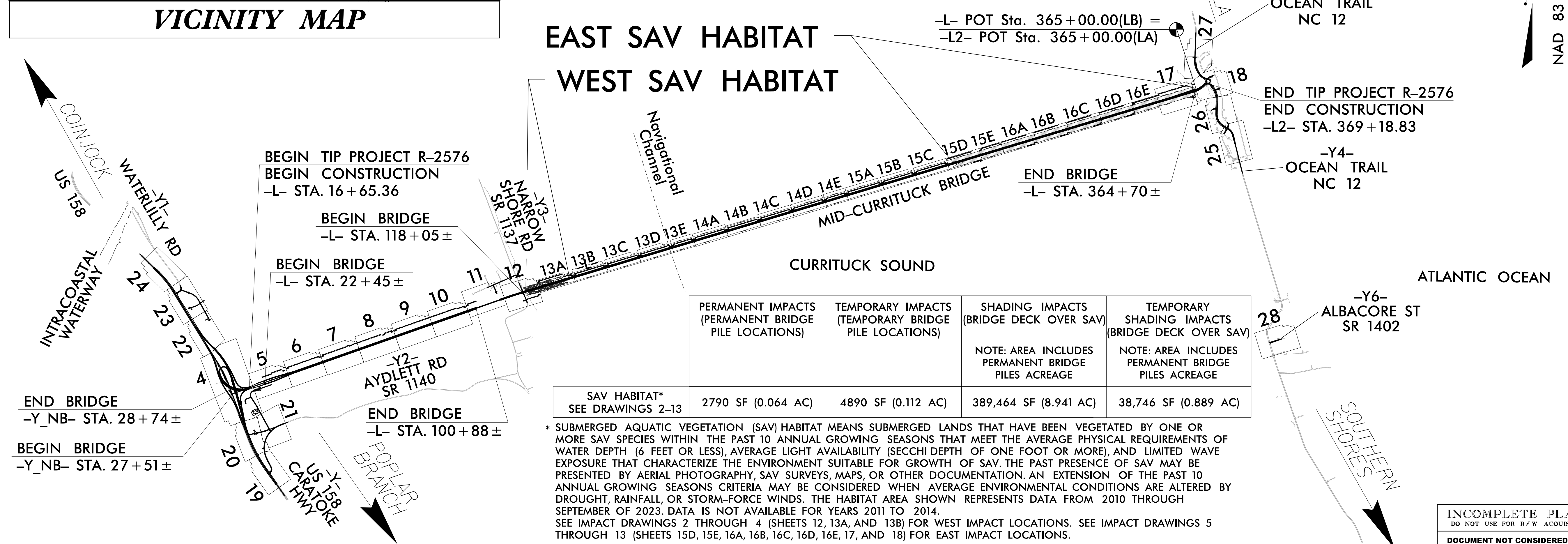
75% PLANS

LOCATION: MID-CURRITUCK BRIDGE FROM US 158 SOUTH OF COINJOCK TO NC 12 SOUTH OF COROLLA

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES

SAV IMPACT DRAWINGS

EAST SAV HABITAT
WEST SAV HABITAT



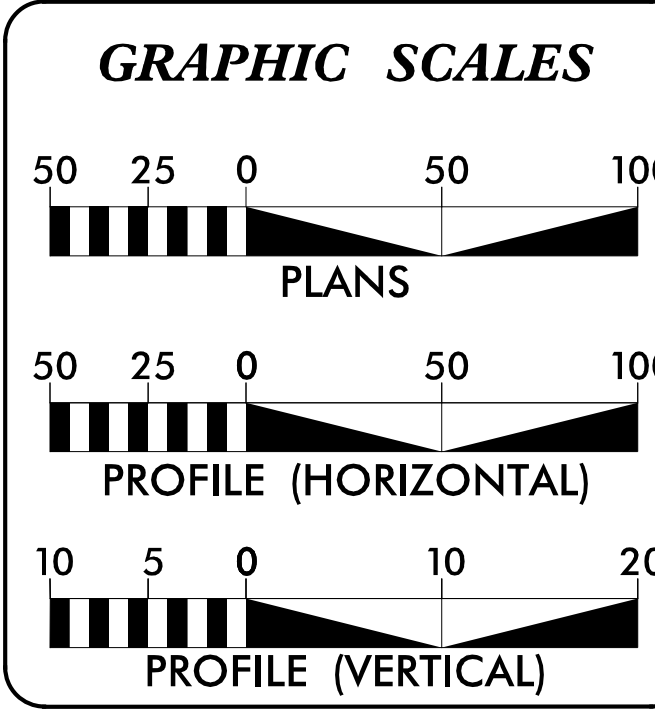
	PERMANENT IMPACTS (PERMANENT BRIDGE PILE LOCATIONS)	TEMPORARY IMPACTS (TEMPORARY BRIDGE PILE LOCATIONS)	SHADING IMPACTS (BRIDGE DECK OVER SAV) NOTE: AREA INCLUDES PERMANENT BRIDGE PILES ACREAGE	TEMPORARY SHADING IMPACTS (BRIDGE DECK OVER SAV) NOTE: AREA INCLUDES PERMANENT BRIDGE PILES ACREAGE
SAV HABITAT* SEE DRAWINGS 2-13	2790 SF (0.064 AC)	4890 SF (0.112 AC)	389,464 SF (8.941 AC)	38,746 SF (0.889 AC)

* SUBMERGED AQUATIC VEGETATION (SAV) HABITAT MEANS SUBMERGED LANDS THAT HAVE BEEN VEGETATED BY ONE OR MORE SAV SPECIES WITHIN THE PAST 10 ANNUAL GROWING SEASONS THAT MEET THE AVERAGE PHYSICAL REQUIREMENTS OF WATER DEPTH (6 FEET OR LESS), AVERAGE LIGHT AVAILABILITY (SECCHI DEPTH OF ONE FOOT OR MORE), AND LIMITED WAVE EXPOSURE THAT CHARACTERIZE THE ENVIRONMENT SUITABLE FOR GROWTH OF SAV. THE PAST PRESENCE OF SAV MAY BE PRESENTED BY AERIAL PHOTOGRAPHY, SAV SURVEYS, MAPS, OR OTHER DOCUMENTATION. AN EXTENSION OF THE PAST 10 ANNUAL GROWING SEASONS CRITERIA MAY BE CONSIDERED WHEN AVERAGE ENVIRONMENTAL CONDITIONS ARE ALTERED BY DROUGHT, RAINFALL, OR STORM-FORCE WINDS. THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 4 (SHEETS 12, 13A, AND 13B) FOR WEST IMPACT LOCATIONS. SEE IMPACT DRAWINGS 5 THROUGH 13 (SHEETS 15D, 15E, 16A, 16B, 16C, 16D, 16E, 17, AND 18) FOR EAST IMPACT LOCATIONS.

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:



DESIGN DATA

# ADT 2020 =	11,800
ADT 2040 =	18,000
K =	9 %
D =	60 %
T =	7 % *
V =	60 MPH
* (TTST=2) + (DUAL=1) + (RV=4)	
FUNC CLASS =	ARTERIAL STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2576	= 0.524 Miles
LENGTH STRUCTURES	= 6.153 Miles
TOTAL LENGTH TIP PROJECT R-2576	= 6.677 Miles

PROJECT LEVEL TRAFFIC FORECAST (JUNE 2016) (SUMMER WEEKEND)

Prepared In the Office of:

LOCHNER
11 W. LOCHNER, TRC
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RUC: 919 851 8177
FAC: 919 851 8107

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FY 2026

LETTING DATE:
FY 2026

BRIAN K. EASON, PE
PROJECT ENGINEER

CHRISTINA L. YOKELEY, PE
PROJECT DESIGN ENGINEER

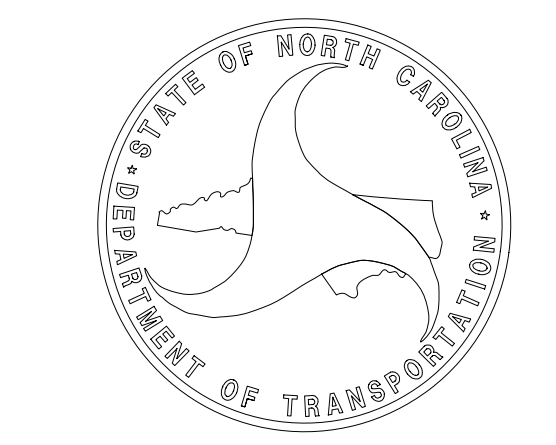
DENNIS JERNIGAN, PE
NCDOT /NCTA

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

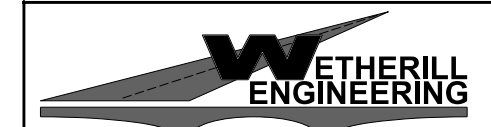
SIGNATURE: _____ P.E.



6/7/2024
R-2576-FGY-TSH-SAV.dgn
C.YOKELEY

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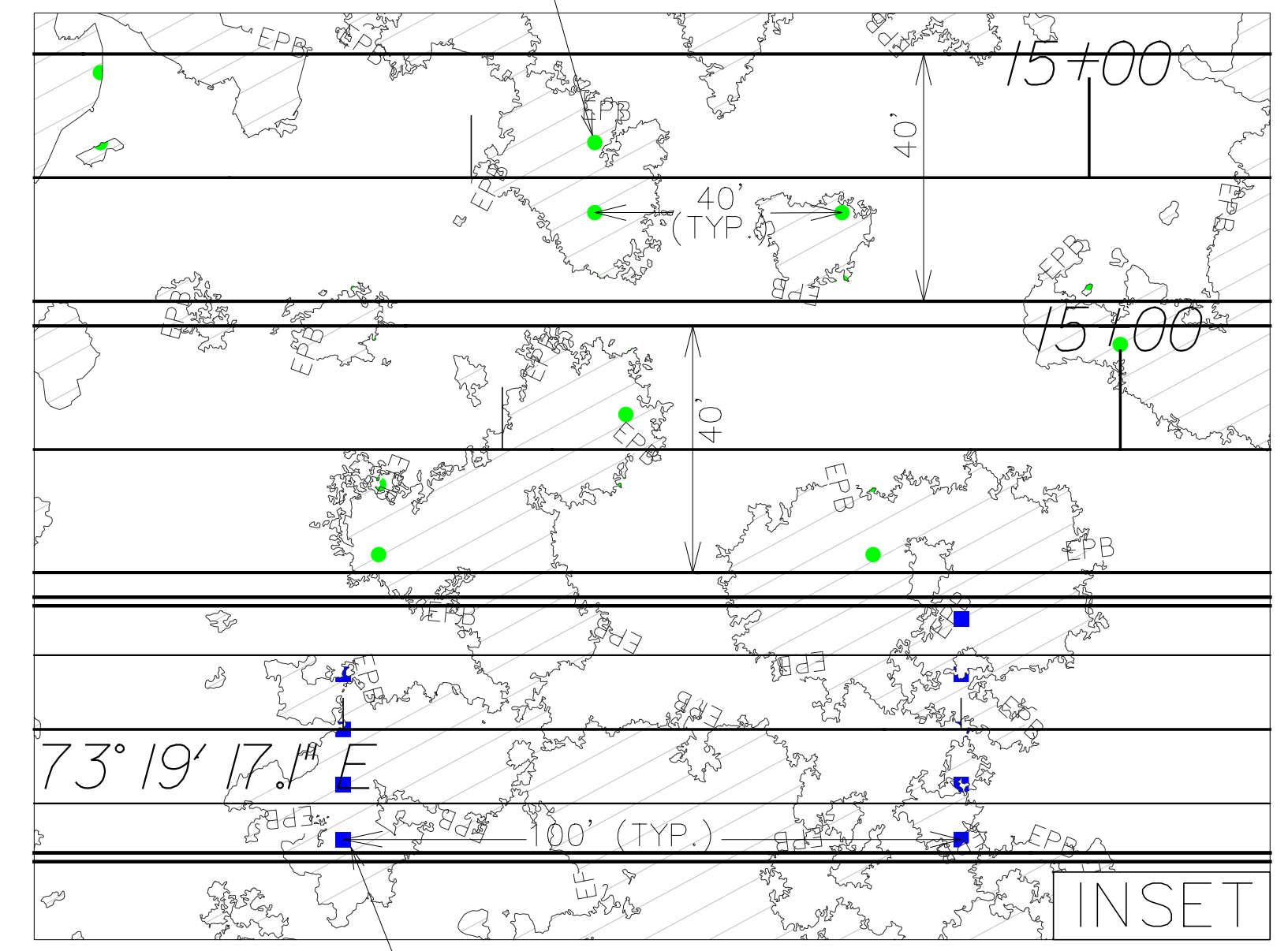
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

NC License Number F-0159
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

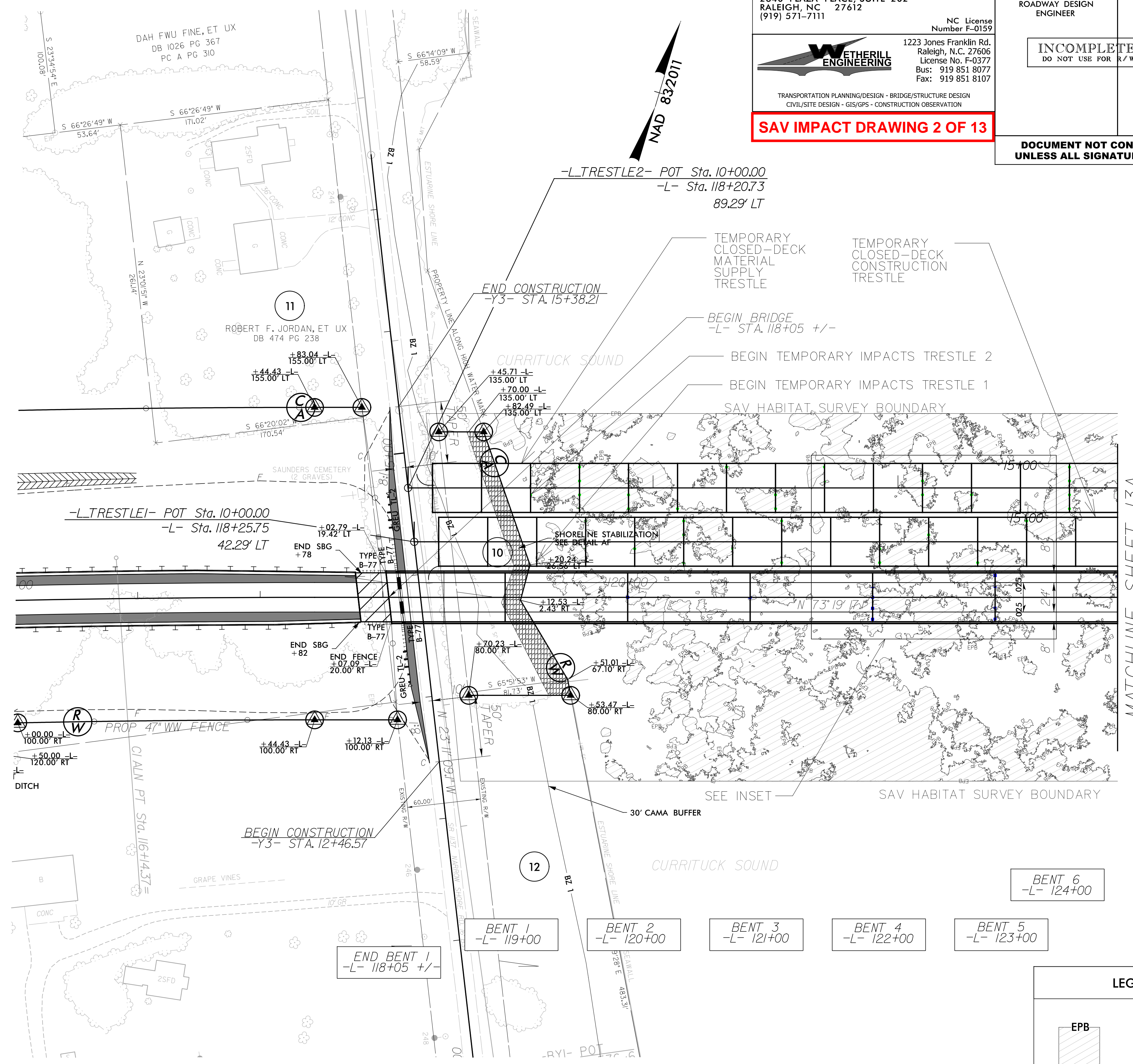
SAV IMPACT DRAWING 2 OF 13

PROJECT REFERENCE NO. R-2576	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

TEMPORARY 30" DIAMETER IMPACT (TYP.)



PERMANENT 30"x30" IMPACT (TYP.)



MATCHLINE SHEET 13A
-L- STA. 124+00

BENT 6
-L- 124+00

BENT 1
-L- 119+00

BENT 2
-L- 120+00

BENT 3
-L- 121+00

BENT 4
-L- 122+00

BENT 5
-L- 123+00

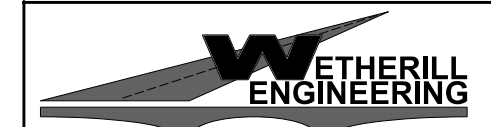
END BENT 1
-L- 118+05 +/-

LEGEND	
	SAV HABITAT
	PERMANENT PILE IMPACTS
	TEMPORARY PILE IMPACTS

THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

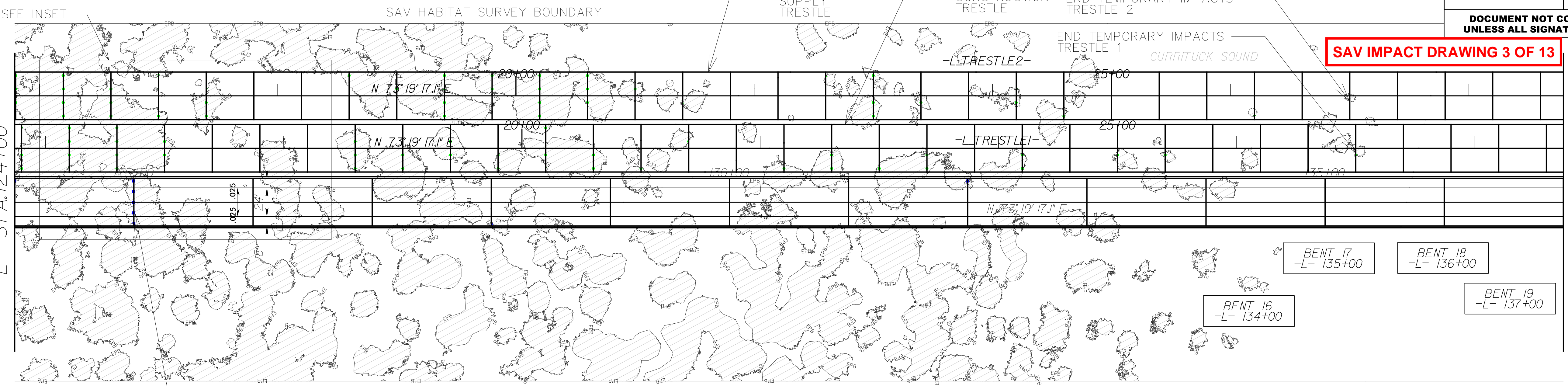
PROJECT REFERENCE NO. R-2576	SHEET NO. 13A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- BENT 7
-L- 125+00
- BENT 8
-L- 126+00
- BENT 9
-L- 127+00
- BENT 10
-L- 128+00
- BENT 11
-L- 129+00
- BENT 12
-L- 130+00
- BENT 13
-L- 131+00
- BENT 14
-L- 132+00
- BENT 15
-L- 133+00

BENT 6
-L- 124+00

MATCHLINE SHEET 12
-L- STA. 124+00

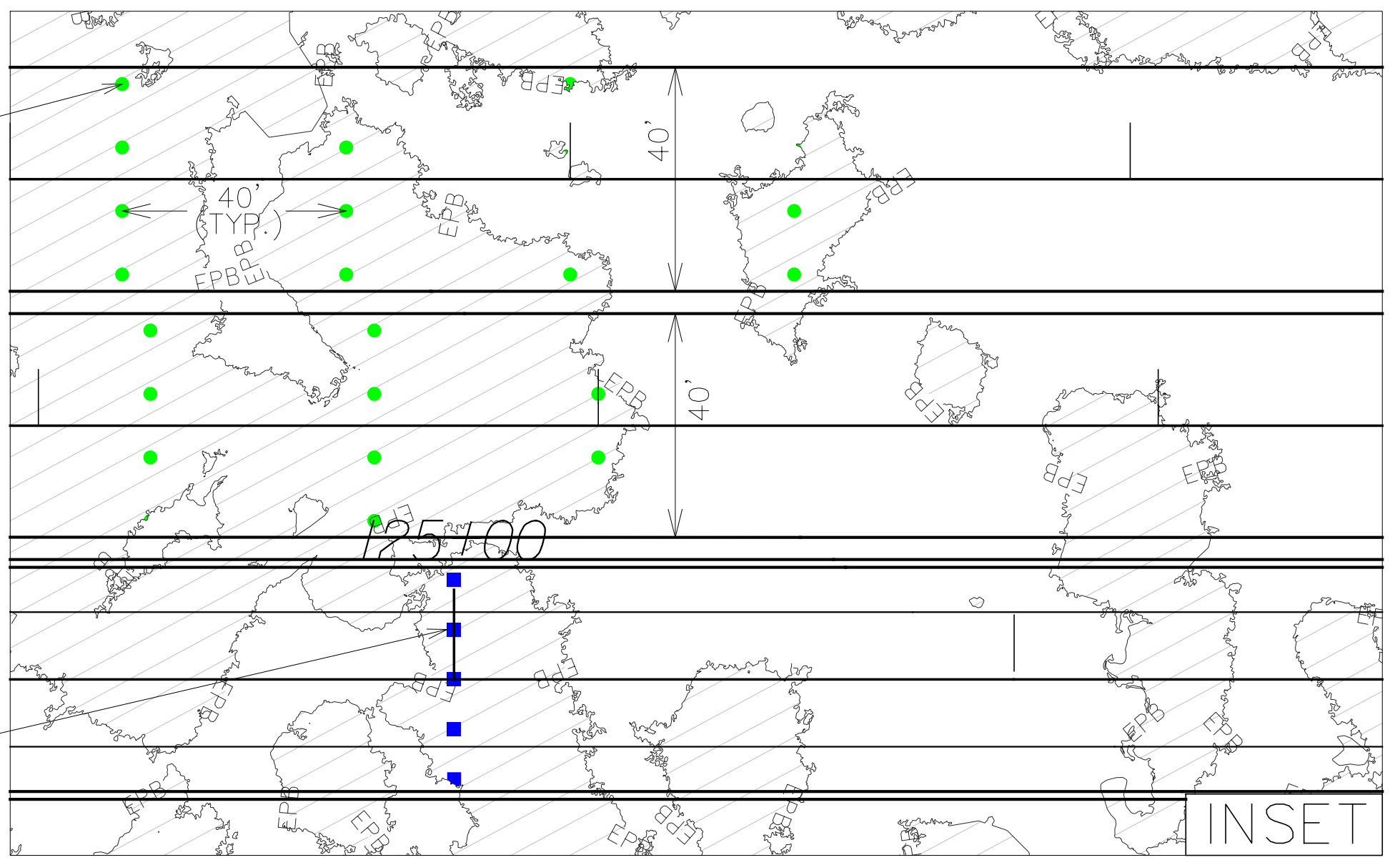
MATCHLINE SHEET 13B
-L- STA. 137+00



PERMANENT 30"x30" IMPACT (TYP.)

TEMPORARY 30" DIAMETER IMPACT (TYP.)

PERMANENT 30"x30" IMPACT (TYP.)



INSET

THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.

LEGEND	
	SAV HABITAT
	PERMANENT PILE IMPACTS
	TEMPORARY PILE IMPACTS

B-17276

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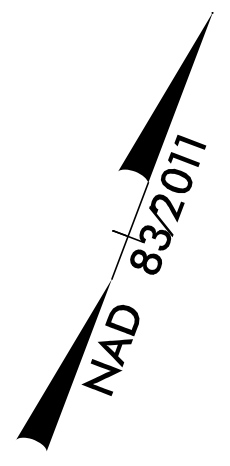


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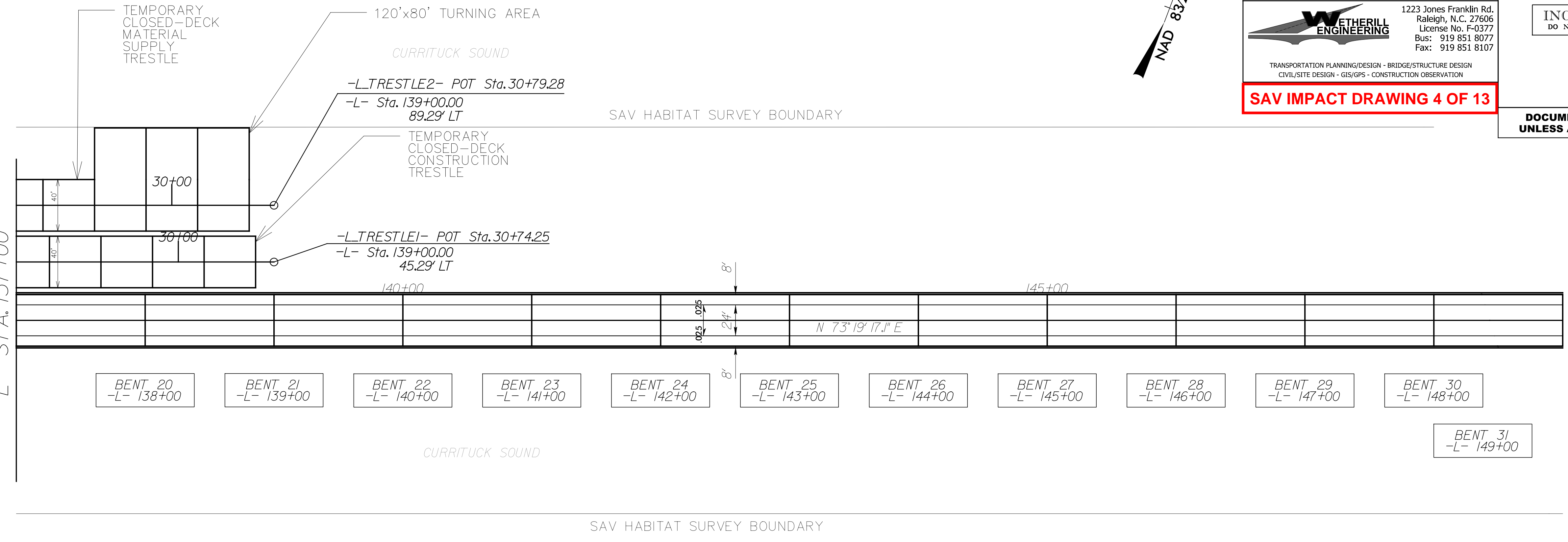
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

SAV IMPACT DRAWING 4 OF 13

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>13B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE SHEET 13A
-L- STA. 137+00

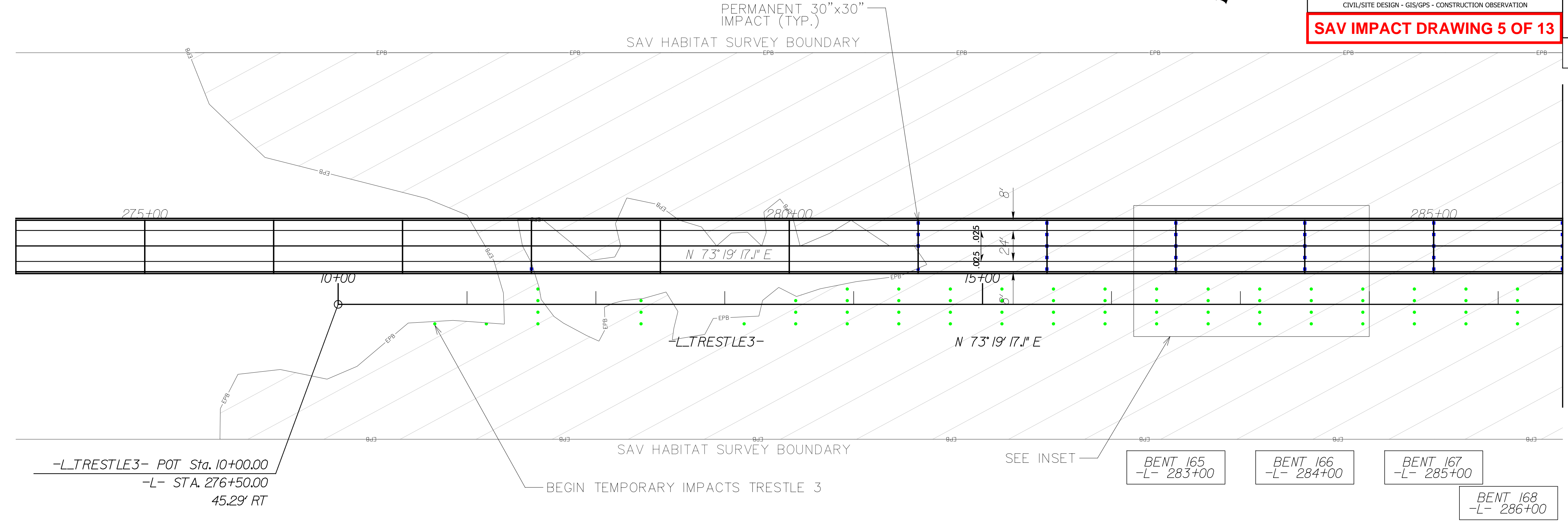
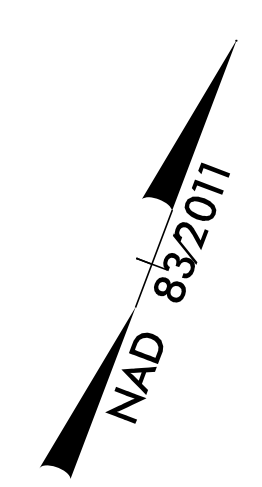


THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.

LEGEND	
	SAV HABITAT
	PERMANENT PILE IMPACTS
	TEMPORARY PILE IMPACTS

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>15D</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

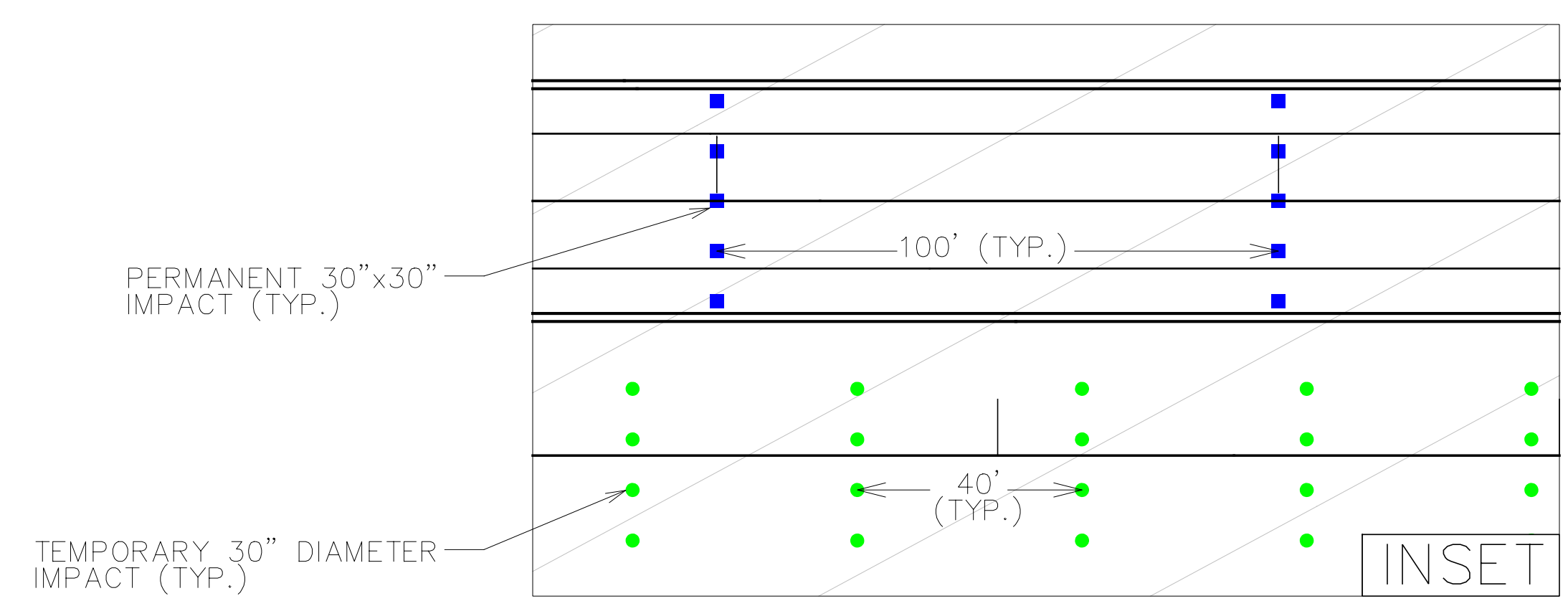
- BENT 156
-L- 274+00
- BENT 157
-L- 275+00
- BENT 158
-L- 276+00
- BENT 159
-L- 277+00
- BENT 160
-L- 278+00
- BENT 161
-L- 279+00
- BENT 162
-L- 280+00
- BENT 163
-L- 281+00
- BENT 164
-L- 282+00



-LTRESTLE3- POT Sta. 10+00.00
-L- STA. 276+50.00
45.29' RT

BEGIN TEMPORARY IMPACTS TRESTLE 3

- BENT 165
-L- 283+00
- BENT 166
-L- 284+00
- BENT 167
-L- 285+00
- BENT 168
-L- 286+00

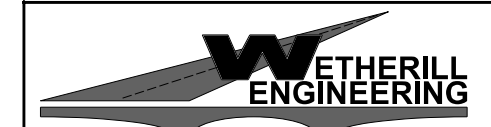


LEGEND	
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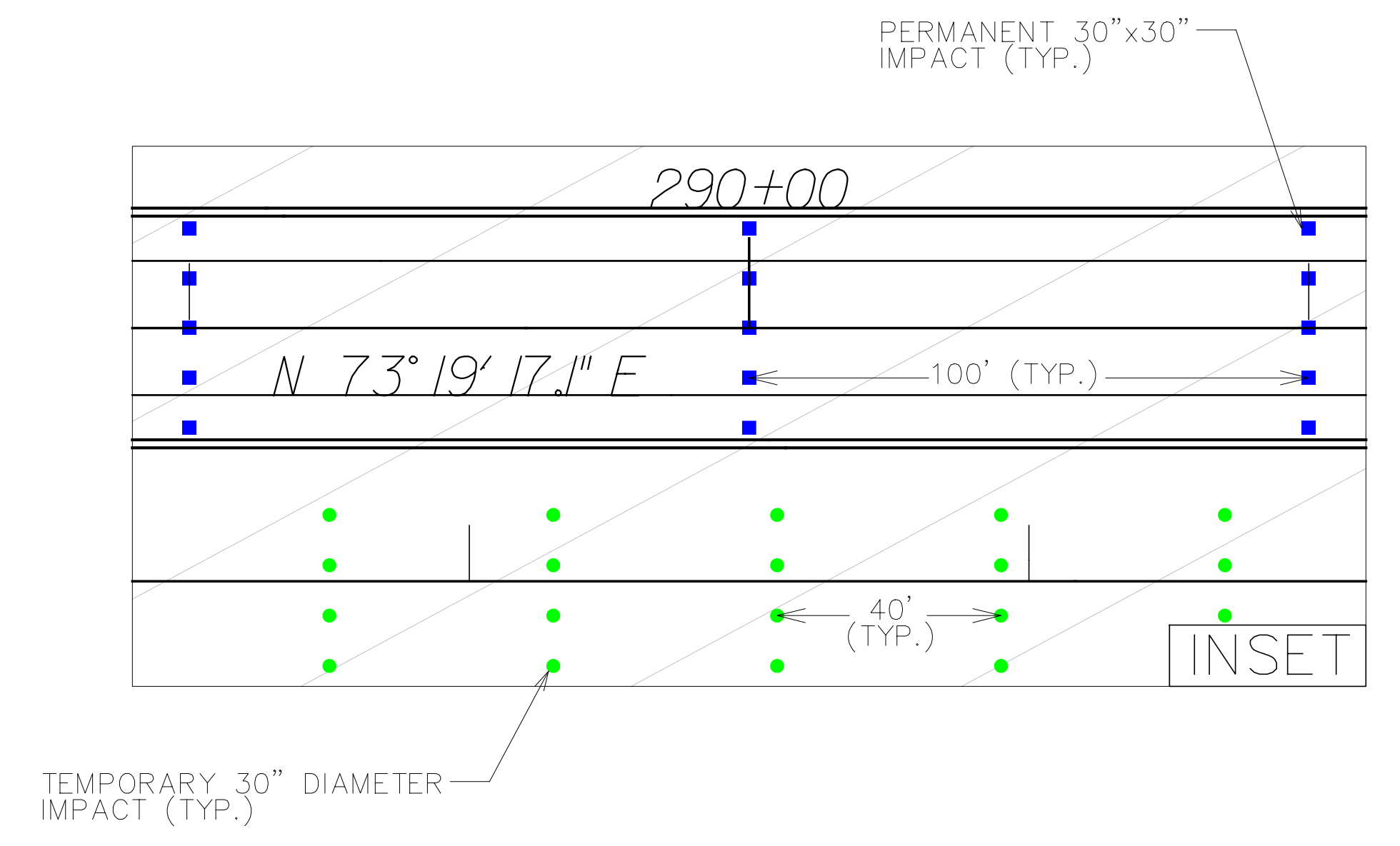
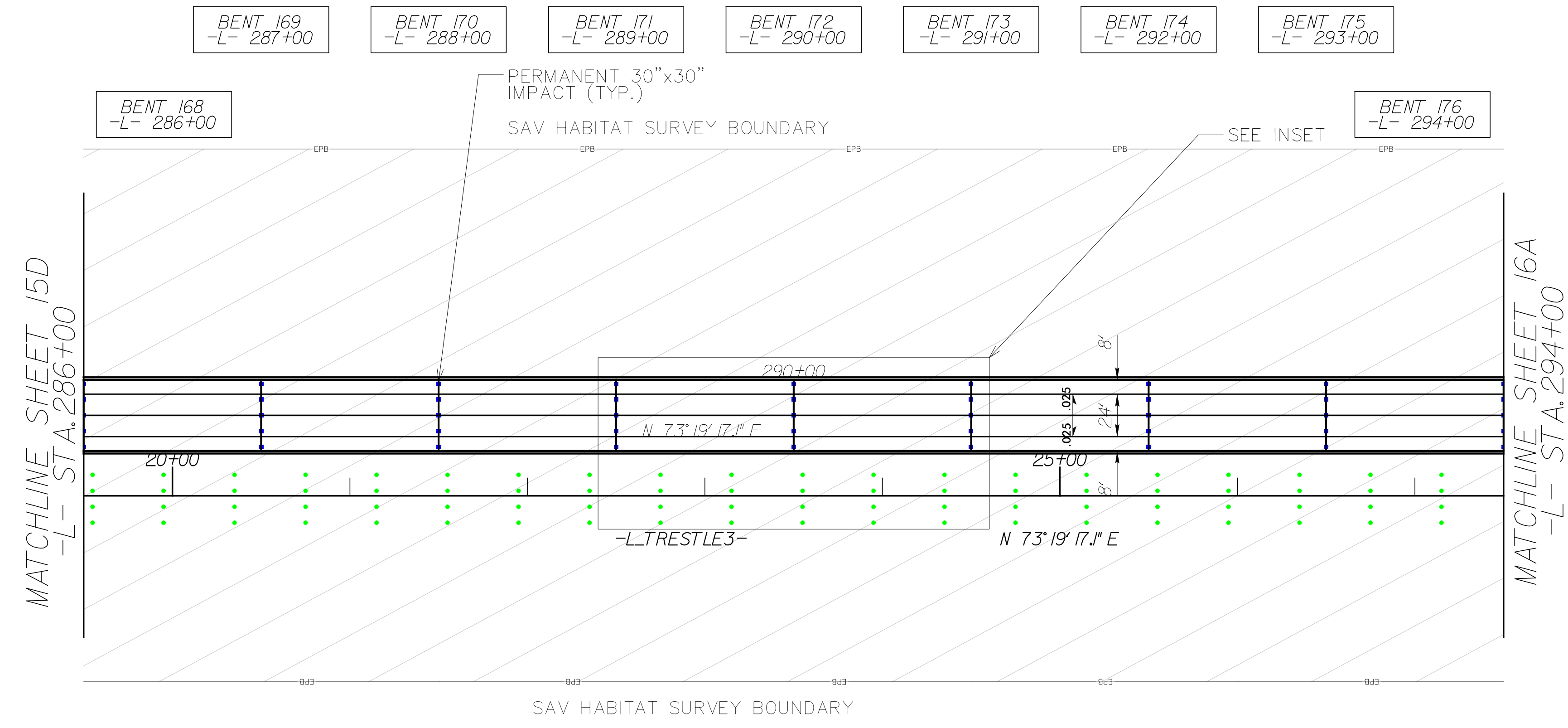
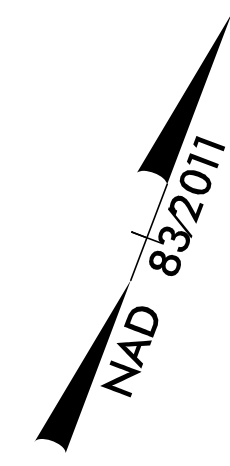


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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

SAV IMPACT DRAWING 6 OF 13

PROJECT REFERENCE NO. R-2576	SHEET NO. 15E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

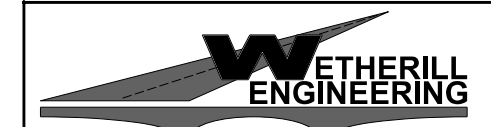


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LEGEND	
	SAV HABITAT
	PERMANENT PILE IMPACTS
	TEMPORARY PILE IMPACTS

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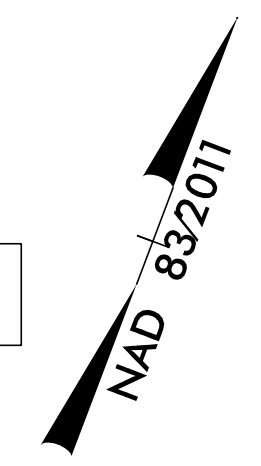


TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 16A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

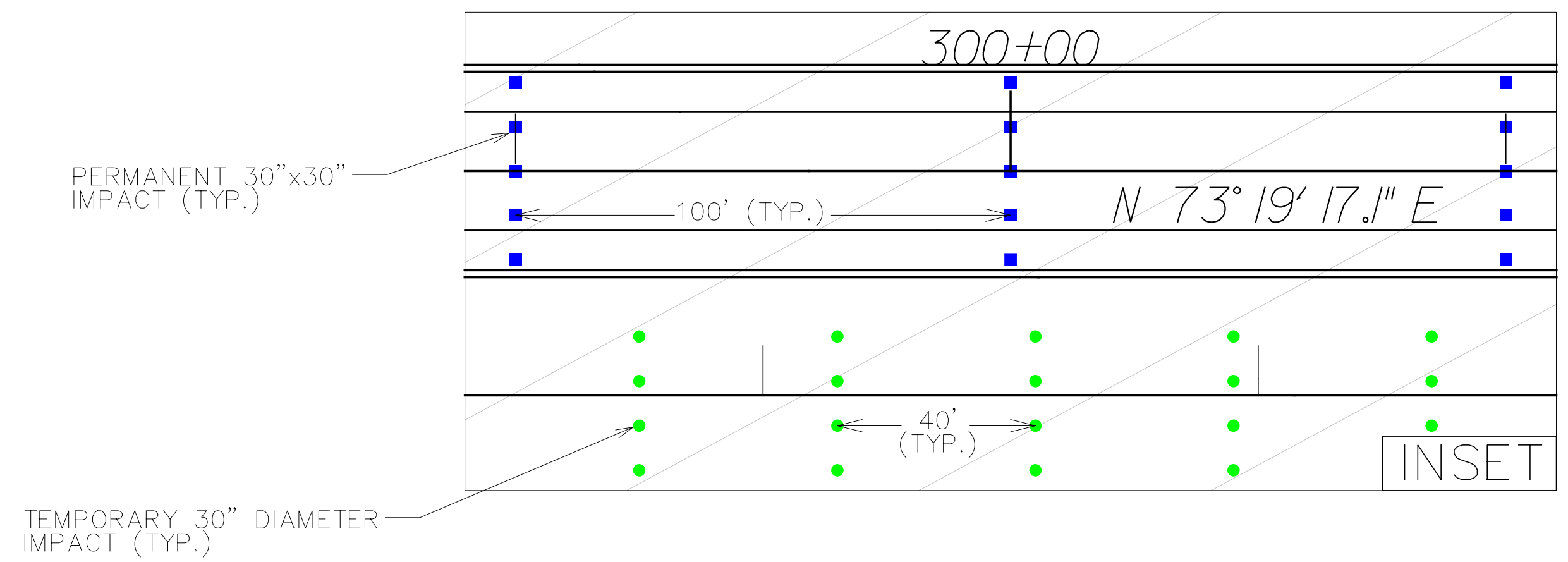
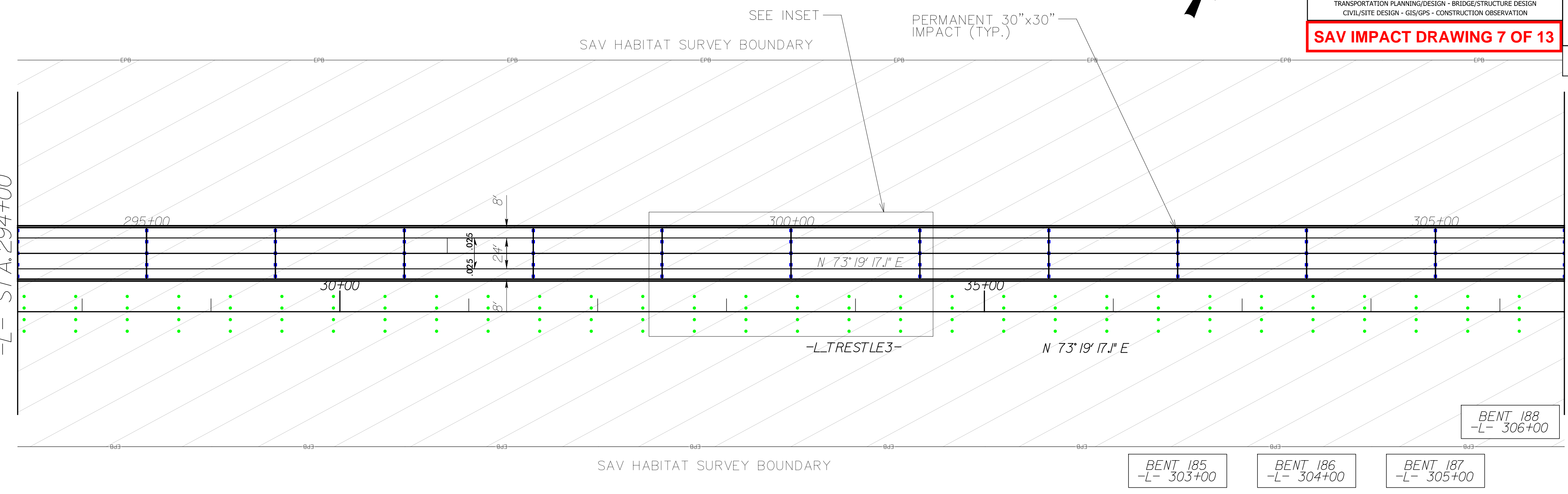
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

- BENT 176 -L- 294+00
- BENT 177 -L- 295+00
- BENT 178 -L- 296+00
- BENT 179 -L- 297+00
- BENT 180 -L- 298+00
- BENT 181 -L- 299+00
- BENT 182 -L- 300+00
- BENT 183 -L- 301+00
- BENT 184 -L- 302+00



MATCHLINE SAV SHEET 15E
-L- STA. 294+00

MATCHLINE SHEET 16B
-L- STA. 306+00

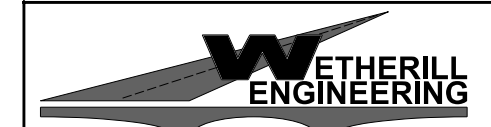


LEGEND	
	SAV HABITAT
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	TEMPORARY PILE IMPACTS

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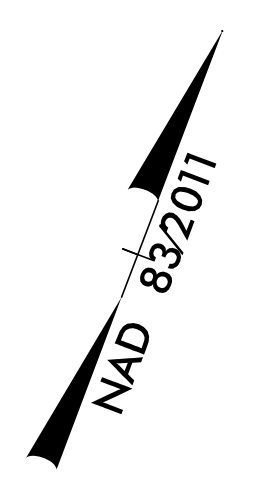
1223 Jones Franklin Rd.
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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SAV IMPACT DRAWING 8 OF 13

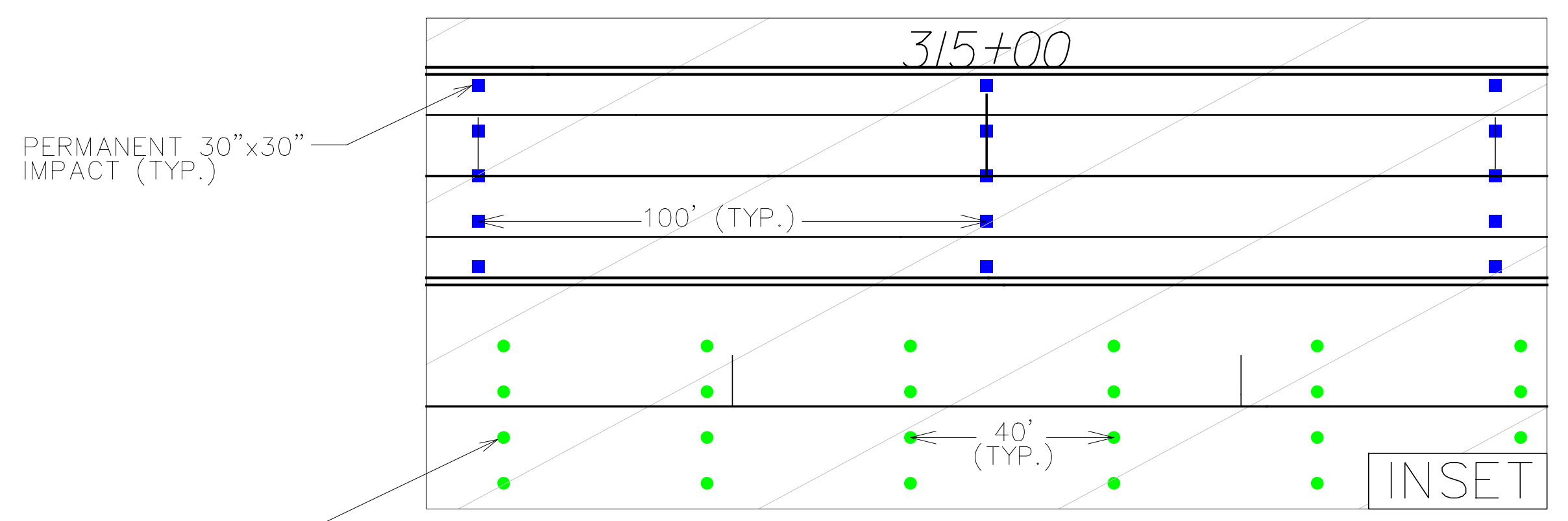
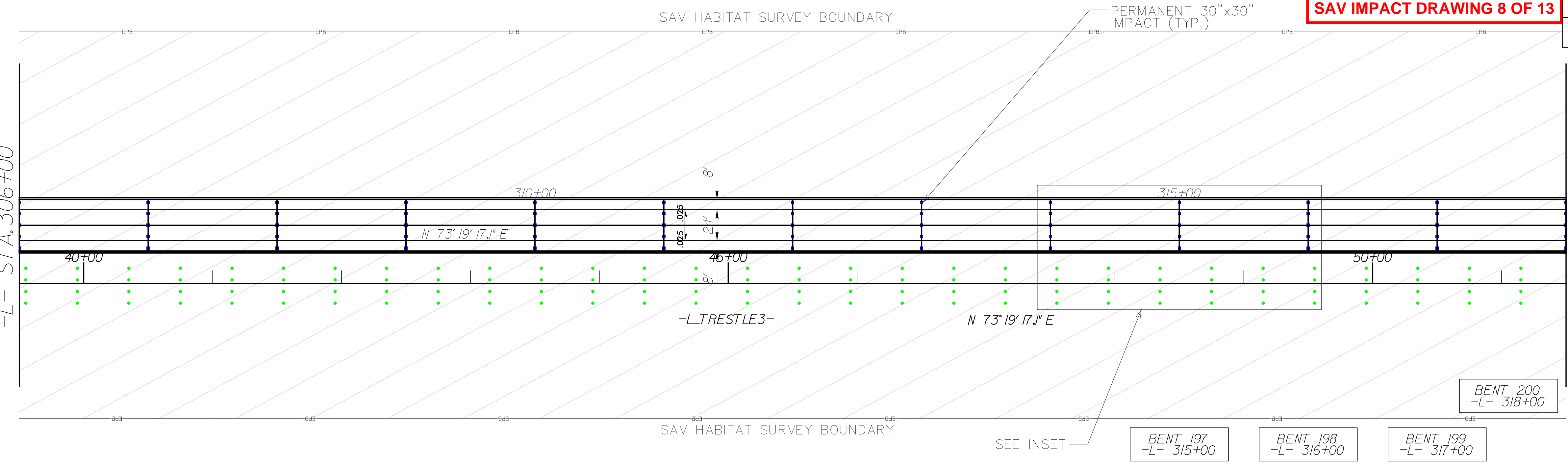
PROJECT REFERENCE NO. R-2576	SHEET NO. 16B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- BENT 188
-L- 306+00
- BENT 189
-L- 307+00
- BENT 190
-L- 308+00
- BENT 191
-L- 309+00
- BENT 192
-L- 310+00
- BENT 193
-L- 311+00
- BENT 194
-L- 312+00
- BENT 195
-L- 313+00
- BENT 196
-L- 314+00



MATCHLINE SHEET 16A
-L- STA. 306+00

MATCHLINE SHEET 16C
-L- STA. 318+00



LEGEND	
	SAV HABITAT
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	TEMPORARY PILE IMPACTS

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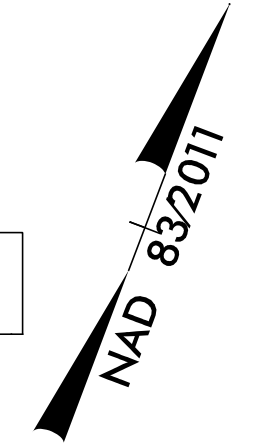
H. W. LOCHNER, INC.
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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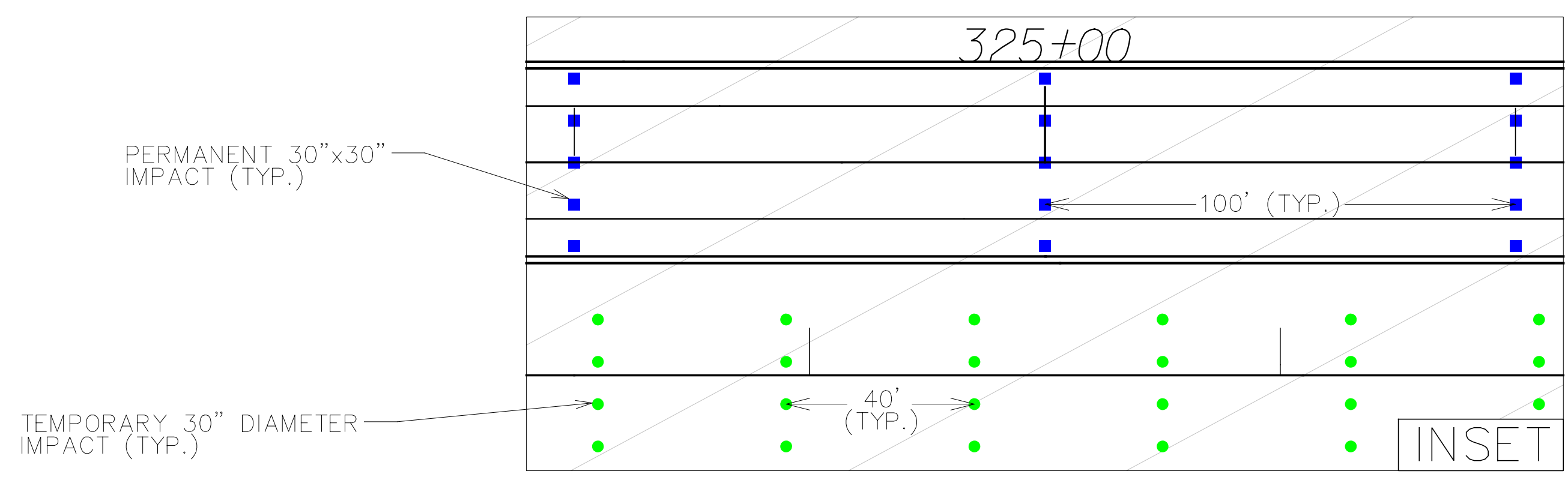
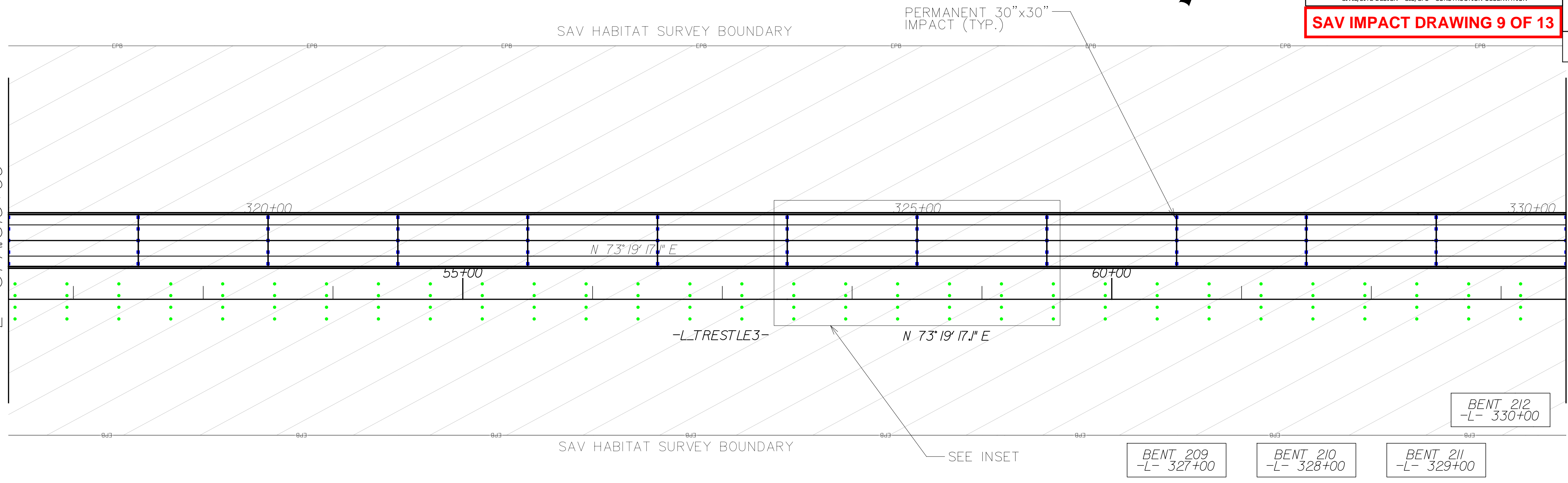
PROJECT REFERENCE NO. R-2576	SHEET NO. 16C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- BENT 200 -L- 318+00
- BENT 201 -L- 319+00
- BENT 202 -L- 320+00
- BENT 203 -L- 321+00
- BENT 204 -L- 322+00
- BENT 205 -L- 323+00
- BENT 206 -L- 324+00
- BENT 207 -L- 325+00
- BENT 208 -L- 326+00



MATCHLINE SHEET 16B
-L- STA 318+00

MATCHLINE SHEET 16D
-L- STA 330+00

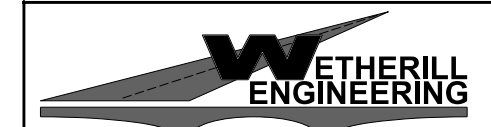


LEGEND	
	SAV HABITAT
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	TEMPORARY PILE IMPACTS

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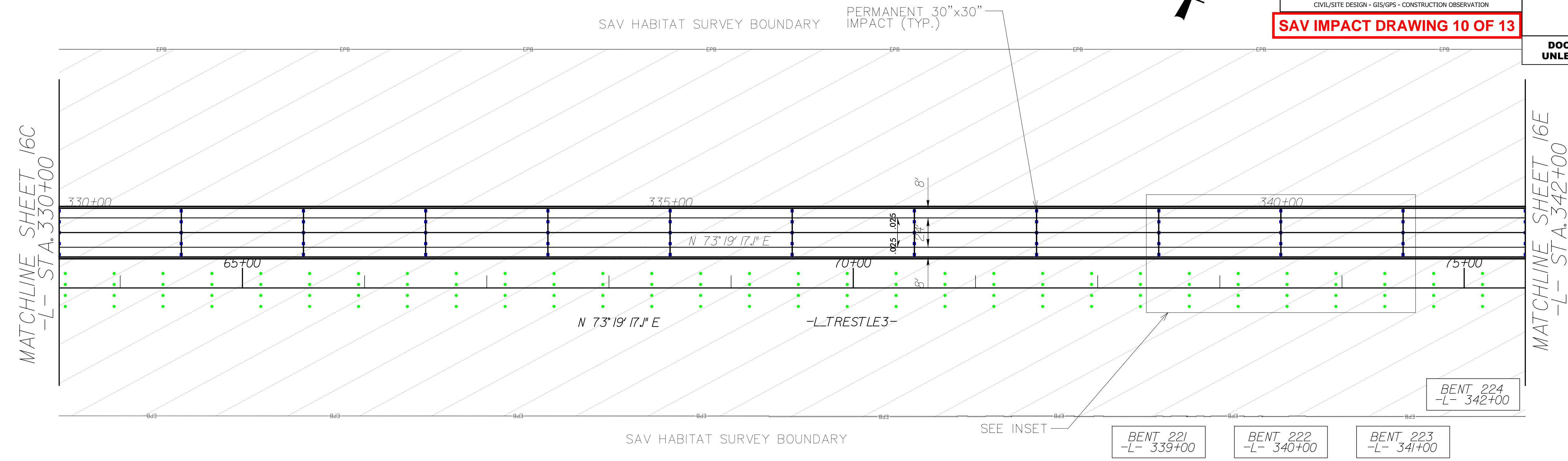


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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

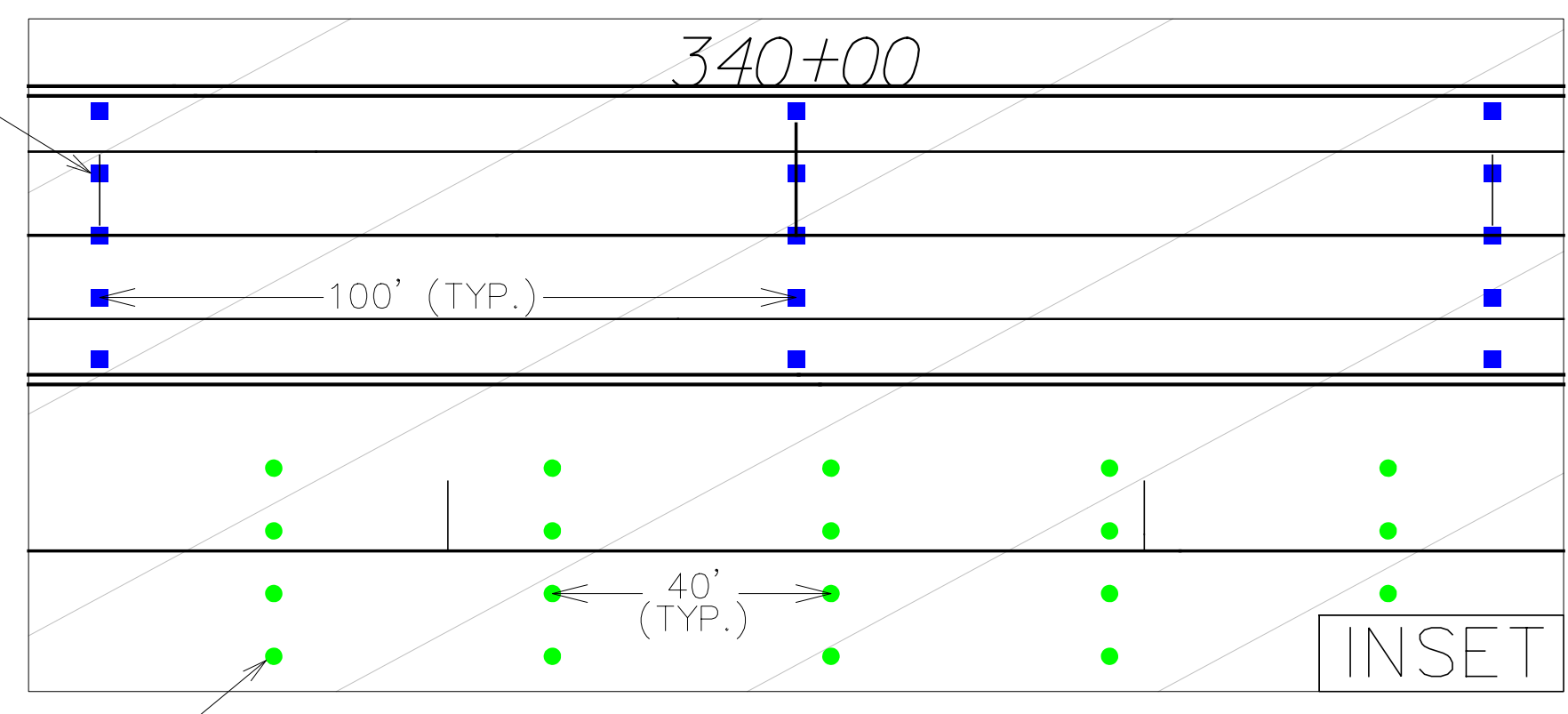
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RW SHEET NO.	
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- BENT 212
-L- 330+00
- BENT 213
-L- 331+00
- BENT 214
-L- 332+00
- BENT 215
-L- 333+00
- BENT 216
-L- 334+00
- BENT 217
-L- 335+00
- BENT 218
-L- 336+00
- BENT 219
-L- 337+00
- BENT 220
-L- 338+00



SAV IMPACT DRAWING 10 OF 13



PERMANENT 30"x30"
IMPACT (TYP.)

TEMPORARY 30" DIAMETER
IMPACT (TYP.)

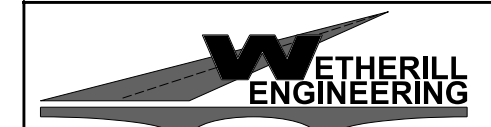
LEGEND	
EPB	SAV HABITAT
EPB	
■	PERMANENT PILE IMPACTS
●	TEMPORARY PILE IMPACTS

THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

SAV IMPACT DRAWING 11 OF 13

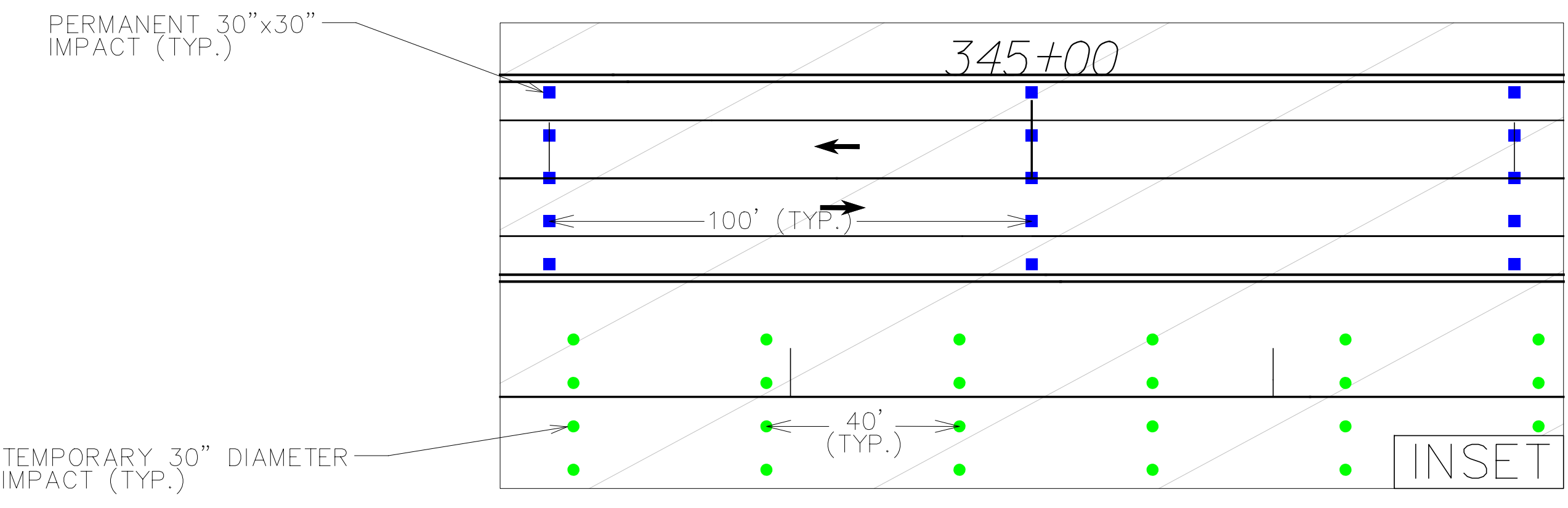
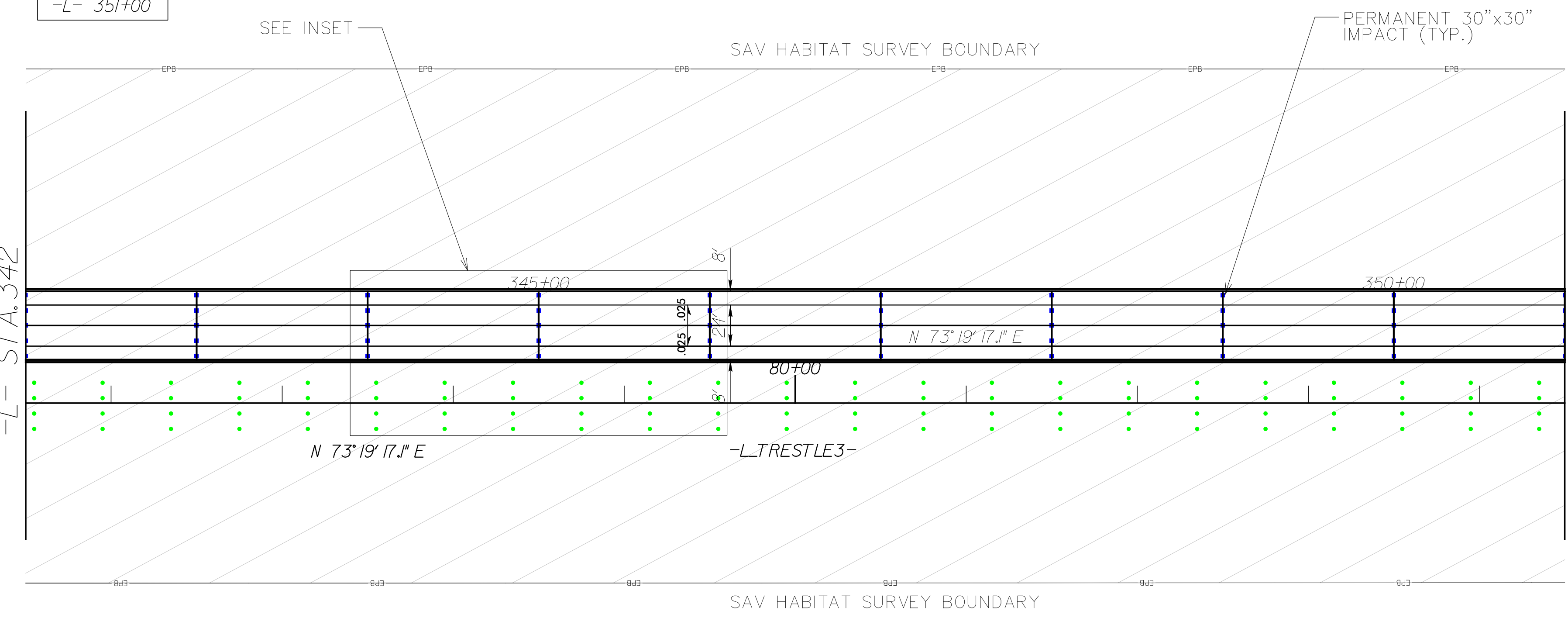
PROJECT REFERENCE NO. R-2576	SHEET NO. 16E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- BENT 224
-L- 342+00
- BENT 225
-L- 343+00
- BENT 226
-L- 344+00
- BENT 227
-L- 345+00
- BENT 228
-L- 346+00
- BENT 229
-L- 347+00
- BENT 230
-L- 348+00
- BENT 231
-L- 349+00
- BENT 232
-L- 350+00

BENT 233
-L- 351+00

MATCHLINE SHEET 16D
-L- STA. 342

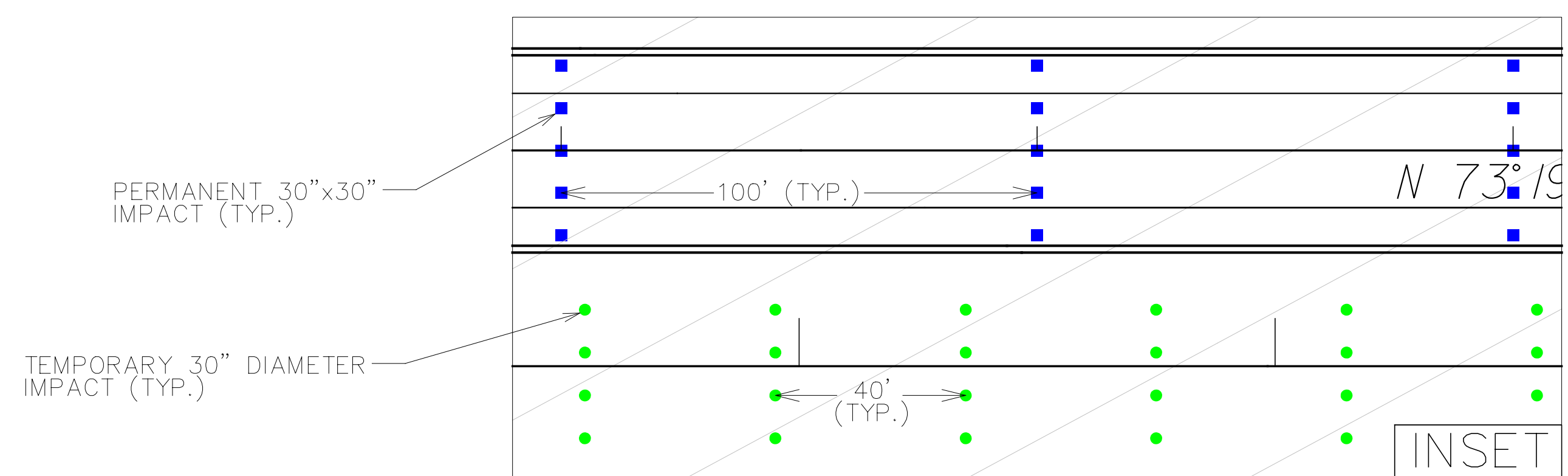
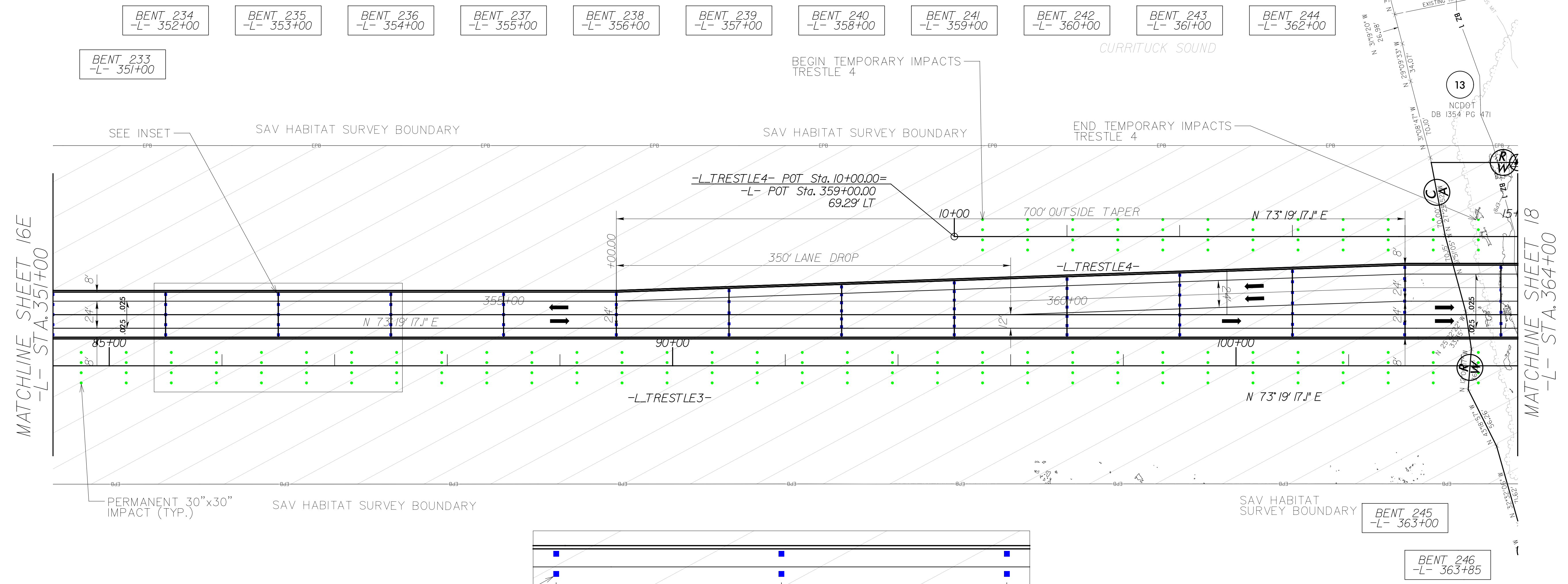
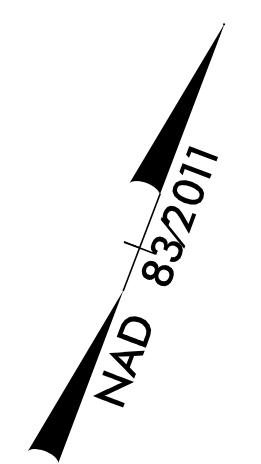
MATCHLINE SHEET 17
-L- STA. 315+00



LEGEND	
	SAV HABITAT
	PERMANENT PILE IMPACTS
	TEMPORARY PILE IMPACTS

THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.




PROJECT REFERENCE NO. R-2576	SHEET NO. 17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



LEGEND	
	SAV HABITAT
	PERMANENT PILE IMPACTS
	TEMPORARY PILE IMPACTS

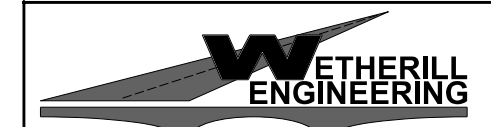
THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.

LEGEND

-  EPB SAV HABITAT
-  EPB PERMANENT PILE IMPACTS
-  EPB TEMPORARY PILE IMPACTS

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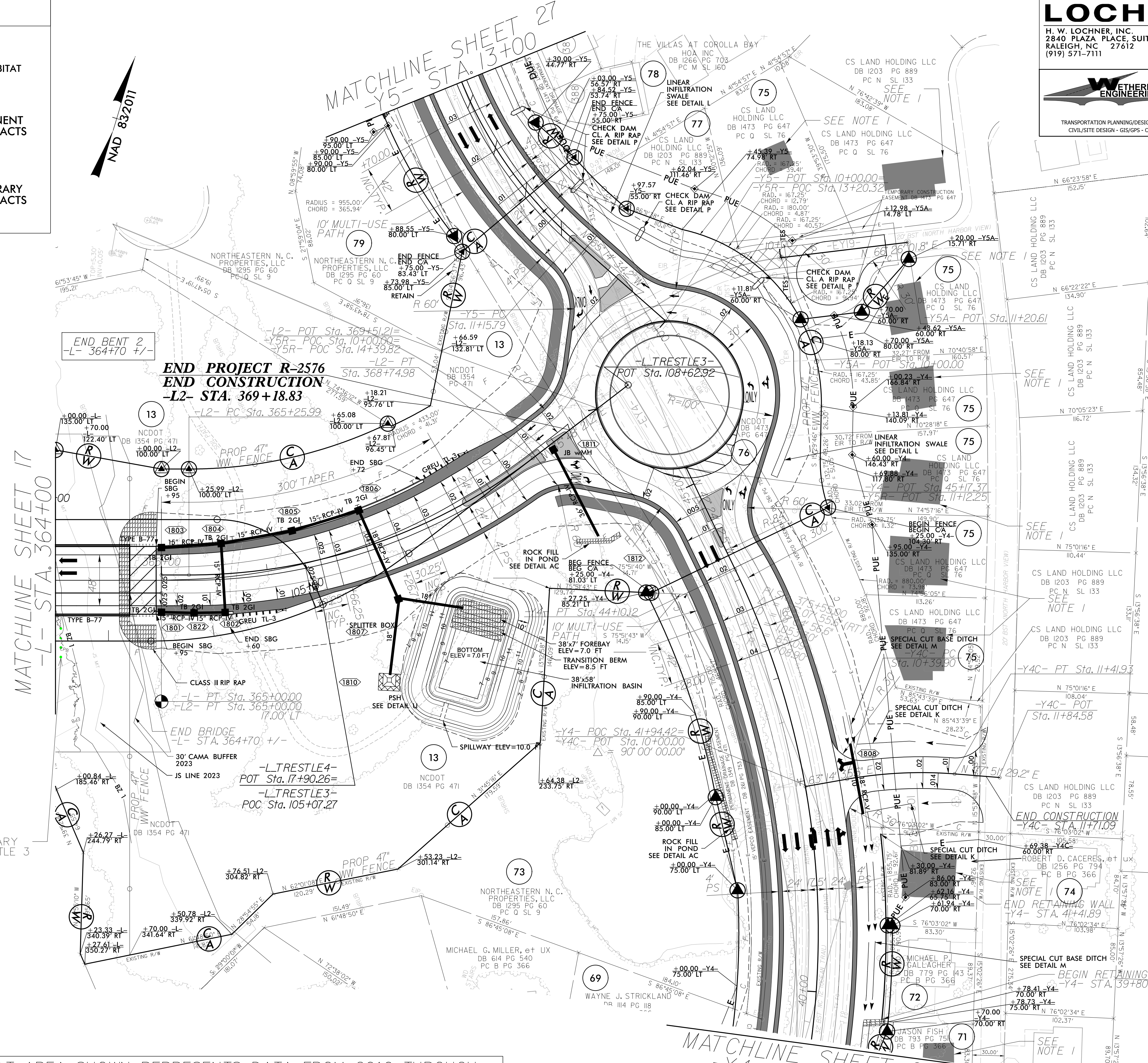


TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PROJECT REFERENCE NO. R-2576	SHEET NO. 18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SAV IMPACT DRAWING 13 OF 13



<p>-L2- PI Sta 367+07.00 Δ = 37° 30' 55.8" (LT) D = 10' 44' 58.8" L = 348.99' T = 181.0' R = 533.00' SE = 0.04 Ro = 128'</p>	<p>-Y4- PI Sta 41+22.31 Δ = 44° 03' 11.7" (LT) D = 7' 15' 09.5" L = 607.41' T = 319.61' R = 790.00' SE = 0.04 Ro = 168'</p>	<p>-Y4C- PI Sta 10+91.19 Δ = 14° 36' 53.7" (RT) D = 14' 19' 26.2" L = 102.03' T = 51.29' R = 400.00' SE = 0.02 Ro = 48'</p>
<p>-Y5- PI Sta 12+15.37 Δ = 27° 57' 40.8" (RT) D = 14' 19' 26.2" L = 195.21' T = 99.59' R = 400.00' SE = 0.04 Ro = 168' V = 35mph</p>	<p>-Y5R- PI Sta 10+00.00 Δ = 359° 59' 57.1" (LT) D = 81' 51' 04.0" L = 439.82' T = 0.00' R = 70.00' SE = 0.02</p>	

	NC 12
	14,700
	14,000
	3,400
	5,200
MID-CURRITUCK BRIDGE	11,800
	18,000
	8,400
	12,800
	19,700
	21,600
2020 ADT	NC 12
2040 ADT	

THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2010 THROUGH SEPTEMBER OF 2023. DATA IS NOT AVAILABLE FOR YEARS 2011 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 13 FOR IMPACT LOCATIONS.

MATCHLINE SHEET 26
-Y4- STA. 39+50