PROJECTS I-5208A & W-5208K

I-73-74/US 220 DRAINAGE AND GUIDERAIL

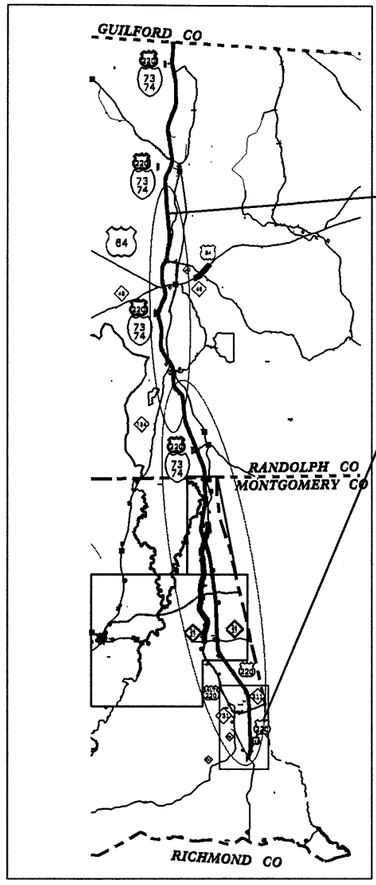
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5208A, W-5208K	1	

WBS ELEMENT	F. A. PROJ. NO.	DESCRIPTION
45338.1.FS11	HSIP-0073(33)	PE
45338.3.FS11	HSIP-0073(33)	CONST.
47054.1.FS1	IMPP-0073(34	PE
47054.3.FS1	IMPP-0073(34	CONST.

MONTGOMERY & RANDOLPH COs

See Sheet 1-A For Index of Sheets
See Sheet 2 For Conventional Symbols

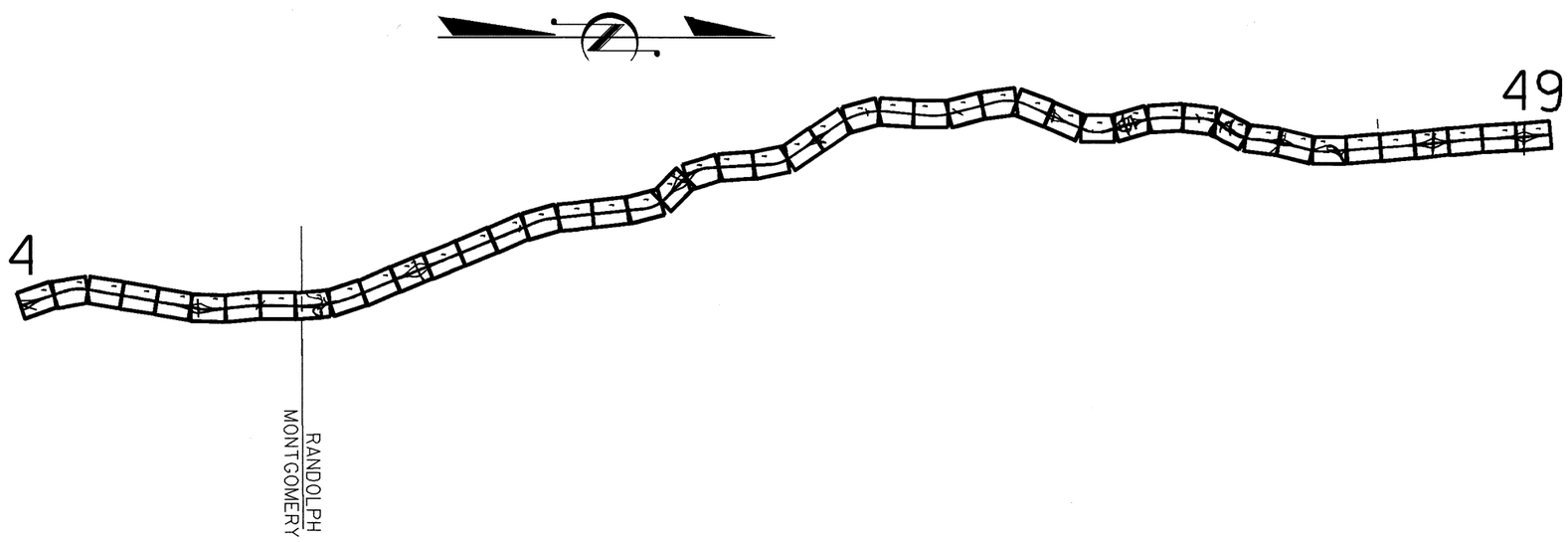


VICINITY MAP

PROJECT I-5208A/W-5208K
LOCATION

LOCATION: I-73/74 - US 220 FROM US 220 ALT. NORTH OF STAR TO SR 1712 (PINEVIEW RD) OVERPASS

TYPE OF WORK: DRAINAGE MAINTENANCE, GRADING, CABLE GUIDERAIL AND EROSION CONTROL



PROJECT LENGTH

LENGTH ROADWAY I-5208A 23.07 MILES
LENGTH ROADWAY W-5208K 4.20 MILES

TOTAL: 23.07 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

DIVISION 8
DESIGN & CONSTRUCT UNIT
902 N. SANDHILLS BLVD.
ABERDEEN NC 28315

DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

DIVISION DESIGN & CONSTRUCT ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

5-30-14

09/08/99
30-MAY-2014 15:14
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gsdavis
AT D8CAD-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	1-A

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER CRAIG S. CANNON

DIVISION DESIGN / CONSTRUCT ENGINEER

INDEX OF SHEETS

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS
1-B	CONVENTIONAL SYMBOLS
2	SUMMARY OF QUANTITIES
3	SUMMARY OF CABLE GUIDERAIL
3-A THRU 3-E	LIST OF PIPES ENDWALLS, ETC. (FOR PIPES 48" & UNDER)
4 THRU 49	PLAN SHEETS (I-5208A)
4 THRU 12	PLAN SHEETS (W-5208K)

GENERAL NOTES

ALIGNMENT:

THE ALIGNMENT SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. THIS PROJECT WAS SURVEYED WITH HAND-HELD GPS SURVEY EQUIPMENT TO LOCATE EXISTING DRAINAGE STRUCTURES. THE ROADWAY WAS DIGITIZED FROM AERIAL PHOTOGRAPHY.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in the "Roadway standard Drawings" highway Design Branch – N.C. Department of Transportation – Raleigh, N.C., dated January 17, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
840.22	Frame and Wide Slot Sag Grates
865.01	Cable Guiderail

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	2

Note: Not to Scale

**S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite Marker — RW
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Curb Cut Future Ramp — CCFR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT NO.	SHEET NO.	TOTAL NO.
45338.3.FS11(W-5208K),	3	
47054.3.FS1 (I-5208A)		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH MI	FLOWABLE FILL CY	FRAME WITH TWO GRATES, STD 840.22 EA	GENERIC DRAINAGE ITEM - REPLACE CONCRETE APRON EA	GENERIC DRAINAGE ITEM - DROP INLET REPAIR EA	GENERIC DRAINAGE ITEM - CONCRETE DITCH REPAIR SY	CABLE GUIDERAIL LF	CABLE GUIDERAIL ANCHOR UNITS EA	MATTING (EROSION CONTROL) SY	WATTLE LF	SEED & MULCHING AC	TEMPORARY TRAFFIC CONTROL LS (4457000000-N)
45338.3.FS11(W-5208K)	Montgomery	1	I-73/I-74/US220	FROM US 220 ALT. NORTH OF STAR TO RANDOLPH CO. LINE	4.2						19,425.00	22.00	15		0.10	0.15
TOTAL FOR MAP NO. 1					**4.2**						**19,425.00**	**22.00**	**15**		**0.10**	**0.15**
TOTAL FOR PROJ NO. 45338.3.FS11(W-5208K)					**4.2**						**19,425.00**	**22.00**	**15**		**0.10**	**0.15**
47054.3.FS1 (I-5208A)	Montgomery	2	I-73/I-74/US220	FROM US 220 ALT. NORTH OF STAR TO SR 1712 (PINEVIEW RD) OVERPASS	23.07	200	3	122	188	390			600	1,750	0.40	0.85
TOTAL FOR MAP NO. 2					**23.07**	**200**	**3**	**122**	**188**	**390**			**600**	**1,750**	**0.40**	**0.85**
TOTAL FOR PROJ NO. 47054.3.FS1 (I-5208A)					**23.07**	**200**	**3**	**122**	**188**	**390**			**600**	**1,750**	**0.40**	**0.85**
GRAND TOTAL					**23.07**	**200**	**3**	**122**	**188**	**390**	**19,425.00**	**22.00**	**615**	**1,750**	**0.50**	**1.00**

COMPUTED BY: __DDC_____ DATE: __4-11/2014_____
CHECKED BY: ____GSD_____ DATE: __ 4/22/2014

PROJECT NO.	SHEET NO.
I-5208A & W-5208J	3

D8CAD221432

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CABLE GUIDERAIL SUMMARY

STATION	STATION	LENGTH (Single Faced)	END ANCHOR UNIT	INTERMEDIATE ANCHOR UNIT
1120+90	1140+90	2000	1	1
1140+90	1160+90	2000		2
1160+90	1180+90	2000		2
1180+90	1200+90	2000		2
1200+90	1220+90	2000		2
1220+90	1240+90	2000		2
1240+90	1254+54	1364	1	1
1263+61	1283+61	2000	1	1
1283+61	1294+61	1100		2
1308+57	1323+87	1530	1	1
1323+87	1339+40	1553	1	1
SUBTOTALS:		19547	5	17
Less Terminal Anchor Reduction		-125		
GRAND TOTALS:		19422		
SAY:		19425	5	17

D8CAD-270410

COMPUTED BY: DDC DATE: 4/23/2014

CHECKED BY: GSD DATE: 4/25/2014

PROJECT NO.	SHEET NO.
I-5208A, W-5208K	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" .064 | 15" .064 | 18" .064 | 24" .064 | 24" | 30" .079 | 30" | 36" .079 | 36" | 42" .109 | 42" | 48" .109 | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS C.S.P. | QUANITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0') | LIN. FT. A 5.0' THRU 10.0' | LIN. FT. B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | M.D.I. TYPE "A" STD. 840.17 OR 840.26 | M.D.I. TYPE "B" STD. 840.18 OR 840.27 | M.D.I. TYPE "D" STD. 840.19 OR 840.28 | M.D.I. FRAME WITH GRATE STD. 840.20 | M.D.I. FRAME WITH TWO GRATES STD. 840.22 | M.D.I. FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | CONRETE APRON | DROP INLET REPAIR | CONCRETE DITCH REPAIR (SY) | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

D8CAD-270410

COMPUTED BY:	DDC	DATE:	4/23/2014
CHECKED BY:	GSD	DATE:	4/25/2014

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5208A, W-5208K	3-B

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL)' | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0') | LIN. FT. A 5.0' THRU 10.0' | LIN. FT. B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | M.D.I. TYPE "A" STD. 840.17 OR 840.26 | M.D.I. TYPE "B" STD. 840.18 OR 840.27 | M.D.I. TYPE "D" STD. 840.19 OR 840.28 | M.D.I. FRAME WITH GRATE STD. 840.20 | M.D.I. FRAME WITH TWO GRATES STD. 840.22 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | CONRETE APRON | DROP INLET REPAIR | CONCRETE DITCH REPAIR (SY) | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---

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COMPUTED BY:	DDC	DATE:	4/23/2014
CHECKED BY:	GSD	DATE:	4/25/2014

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5208A, W-5208K	3-C

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') LIN. FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | M.D.I. TYPE "A" STD. 840.17 OR 840.26 | M.D.I. TYPE "B" STD. 840.18 OR 840.27 | M.D.I. TYPE "D" STD. 840.19 OR 840.28 | M.D.I. FRAME WITH GRATE STD. 840.20 | M.D.I. FRAME WITH TWO GRATES STD. 840.22 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | CONRETE APRON | DROP INLET REPAIR | CONCRETE DITCH REPAIR (SY) | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
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D8CAD-270410

COMPUTED BY:	DDC	DATE:	4/23/2014
CHECKED BY:	GSD	DATE:	4/25/2014

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5208A, W-5208K	3-D

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) SIZE 12" | 15" | 18" | 24" | 30" | | 36" | | 42" | | 48" | | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") LIN. FT. A: 5.0' THRU 10.0' | B: 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | M.D.I. TYPE "A" STD. 840.17 OR 840.26 | M.D.I. TYPE "B" STD. 840.18 OR 840.27 | M.D.I. TYPE "D" STD. 840.19 OR 840.28 | M.D.I. FRAME WITH GRATE STD. 840.20 | M.D.I. FRAME WITH TWO GRATES STD. 840.22 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | CONRETE APRON | DROP INLET REPAIR | CONCRETE DITCH REPAIR (SY) | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---

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COMPUTED BY:	DDC	DATE:	4/23/2014
CHECKED BY:	GSD	DATE:	4/25/2014

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5208A, W-5208K	3-E

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

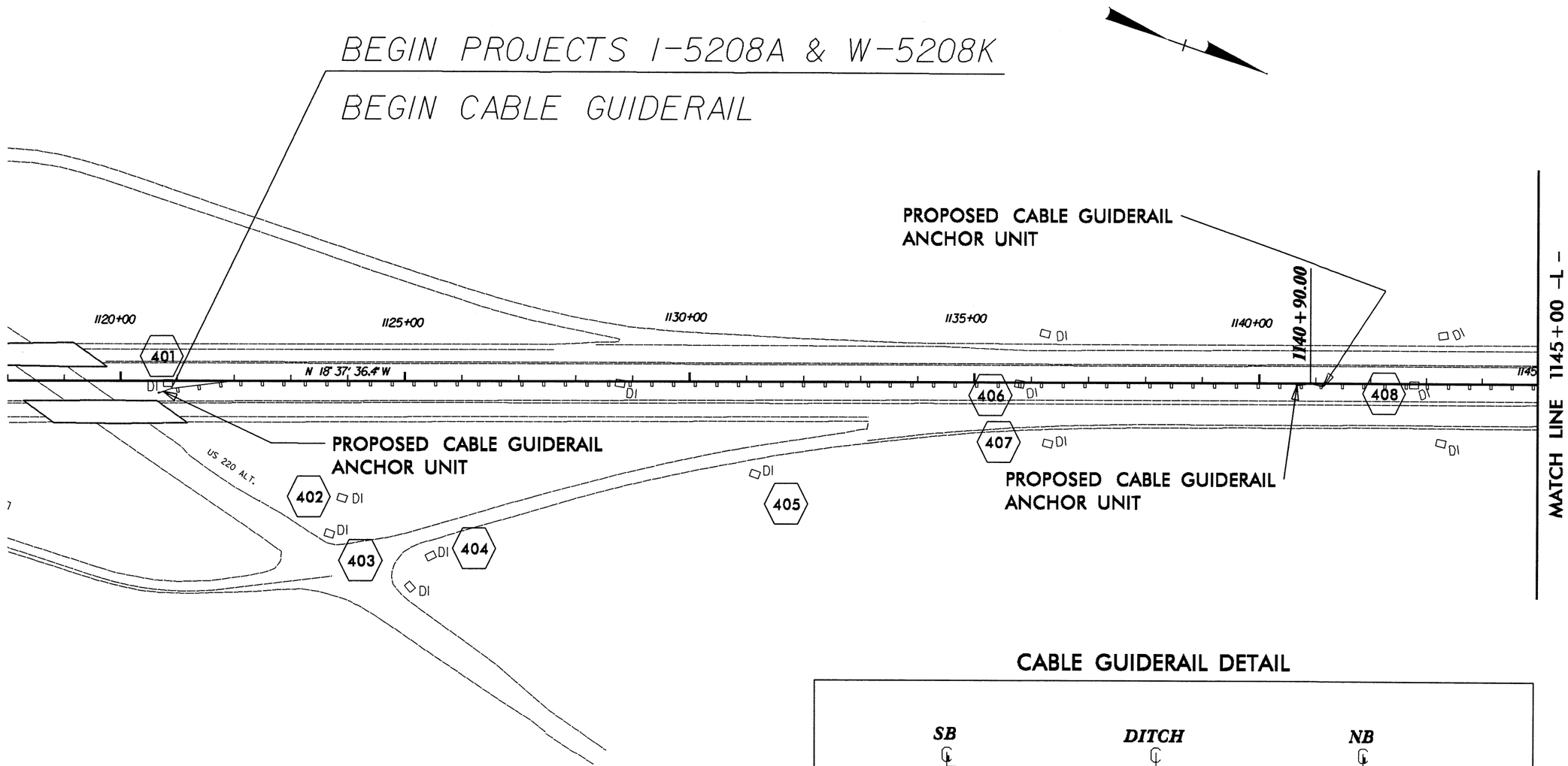
| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") LIN. FT. A: 5.0' THRU 10.0' | B: 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | M.D.I. TYPE "A" STD. 840.17 OR 840.26 | M.D.I. TYPE "B" STD. 840.18 OR 840.27 | M.D.I. TYPE "D" STD. 840.19 OR 840.28 | M.D.I. FRAME WITH GRATE STD. 840.20 | M.D.I. FRAME WITH TWO GRATES STD. 840.22 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | CONRETE APRON | DROP INLET REPAIR | CONCRETE DITCH REPAIR (SY) | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	4
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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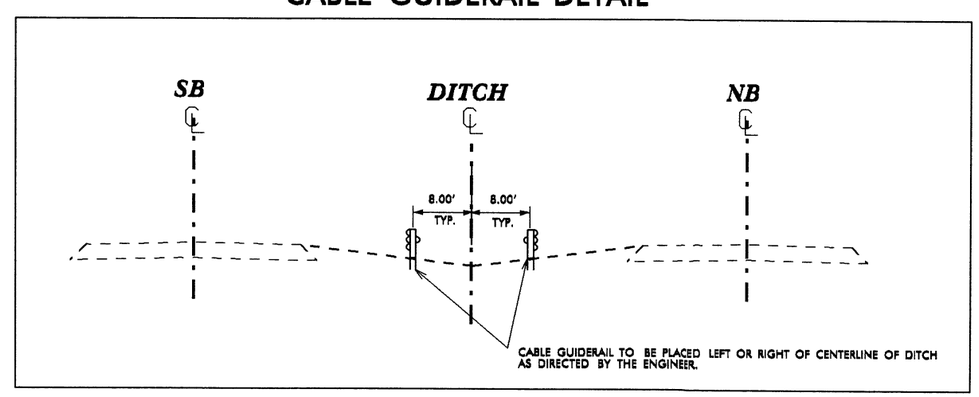

REVISIONS

8/17/99

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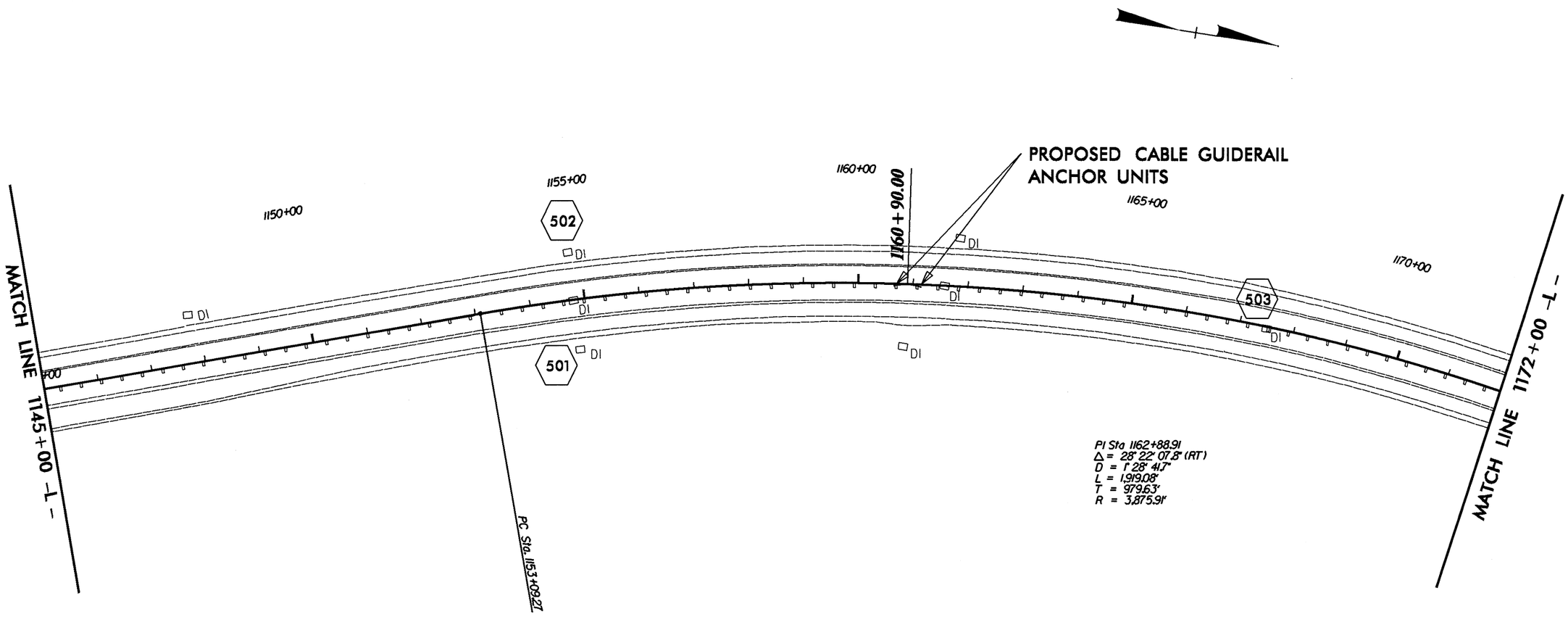
psdavis_at_DBCAD-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	5
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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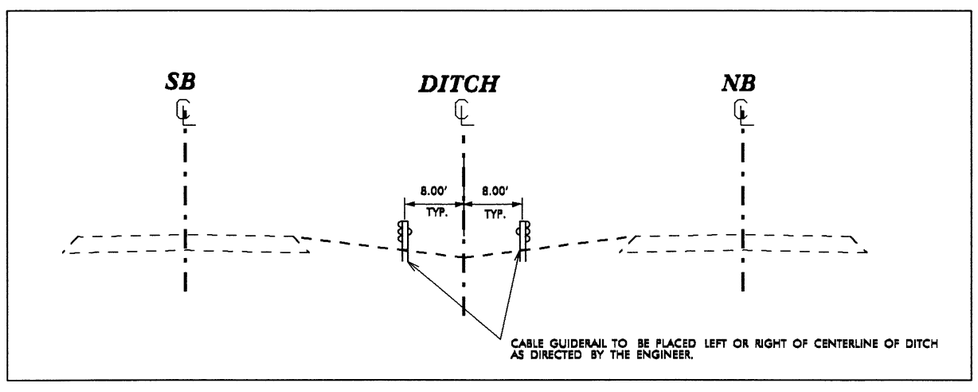

REVISIONS

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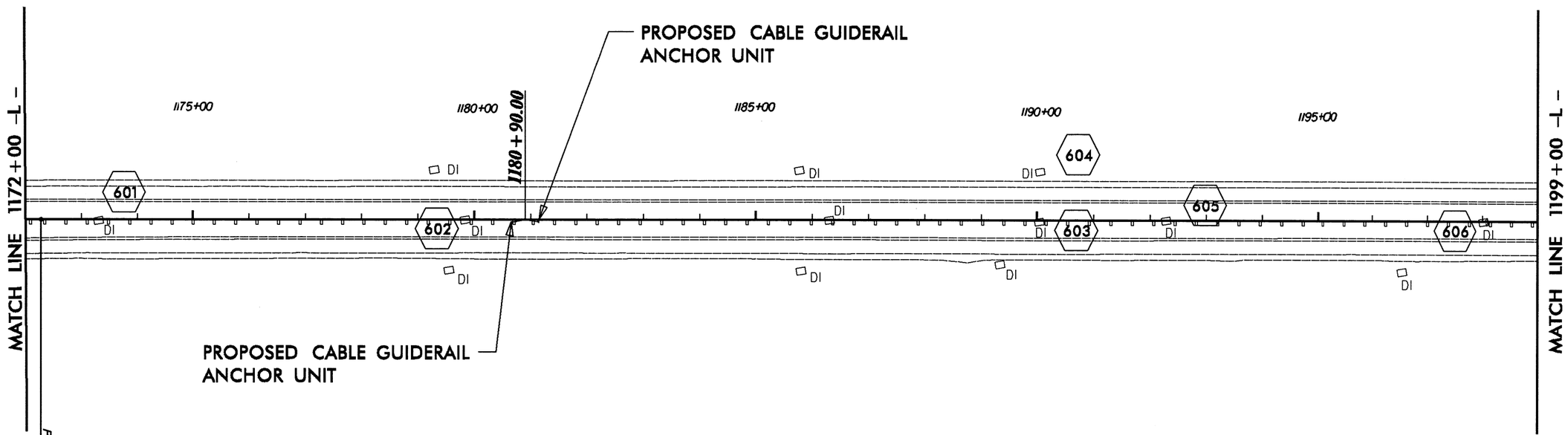
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	6
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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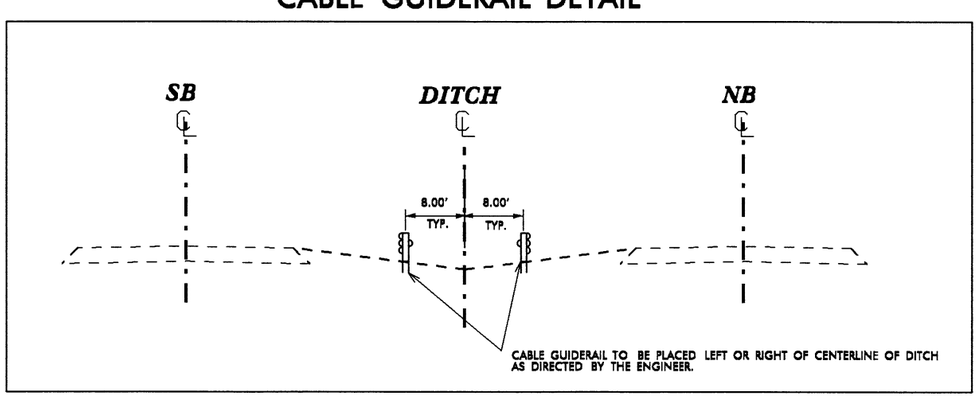

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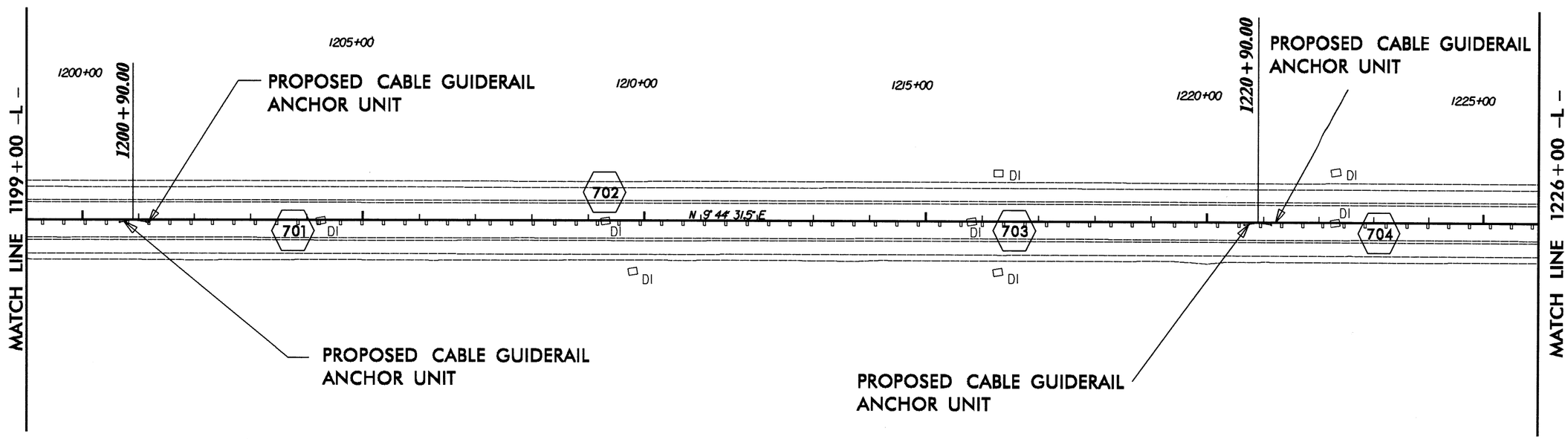
psdavis AT DOT-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	7
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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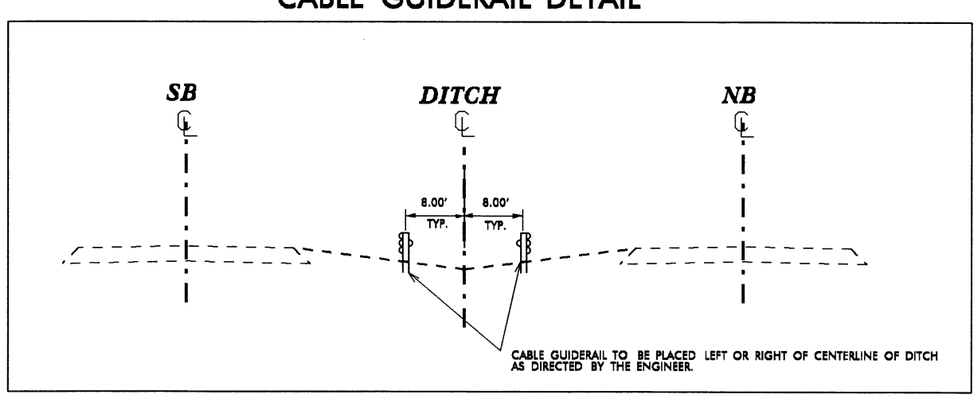

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	8
R/W SHEET NO.	

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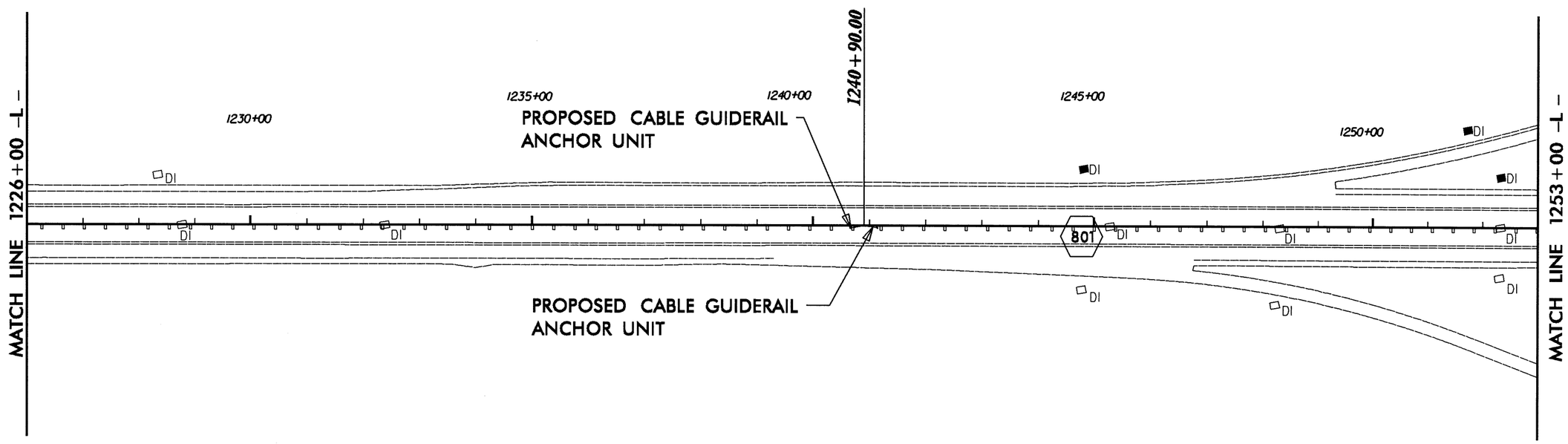
NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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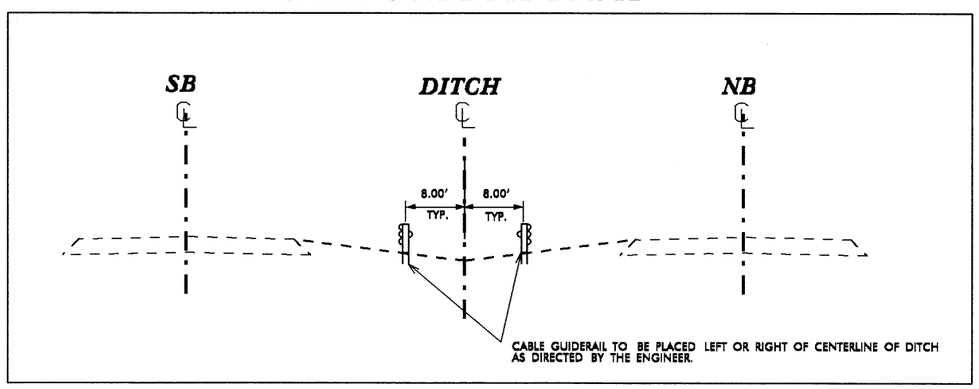

REVISIONS

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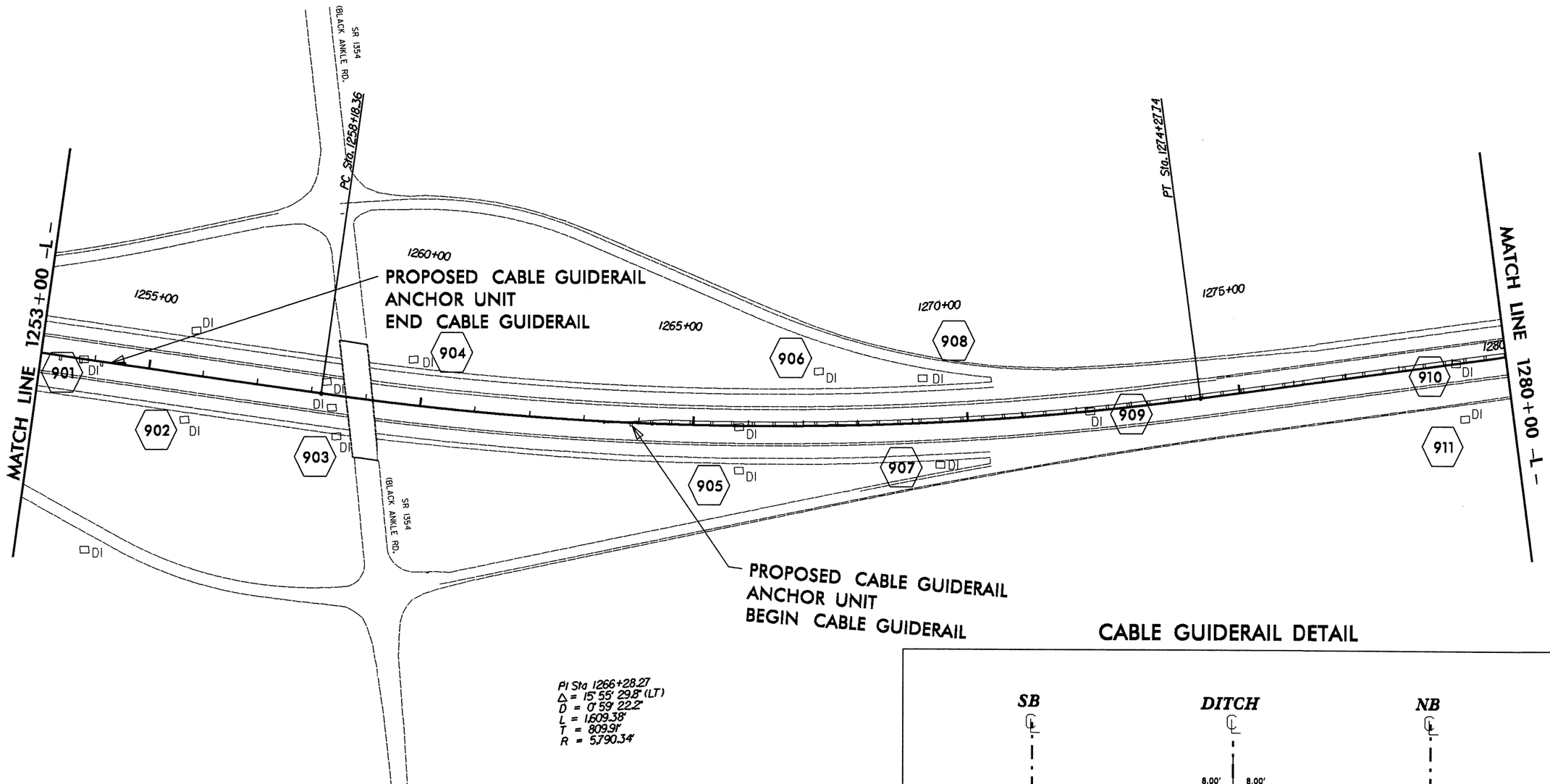
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	9
R/W SHEET NO.	

5-30-14

DIVISION DESIGN / CONSTRUCT ENGINEER



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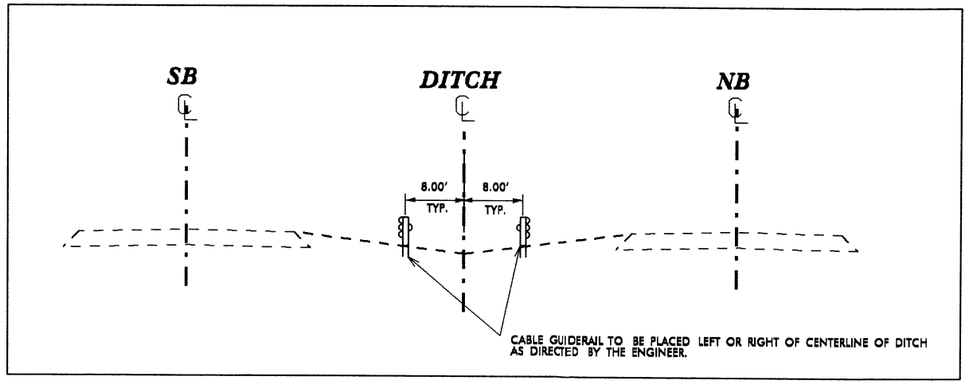

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	10
R/W SHEET NO.	

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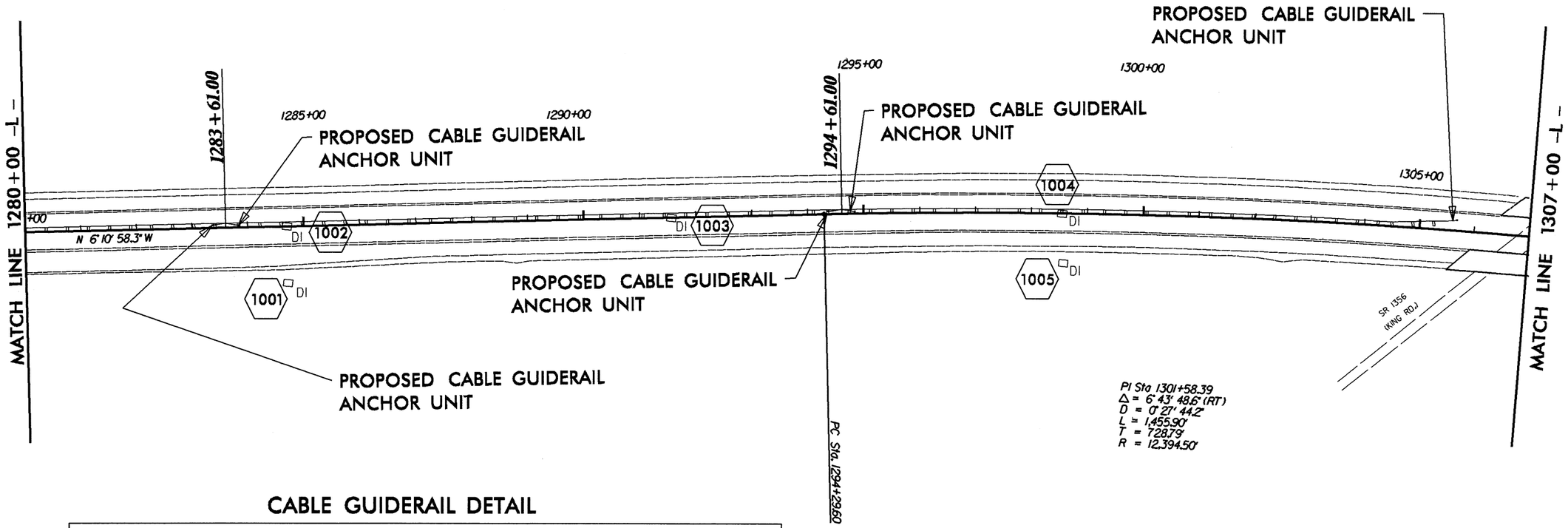
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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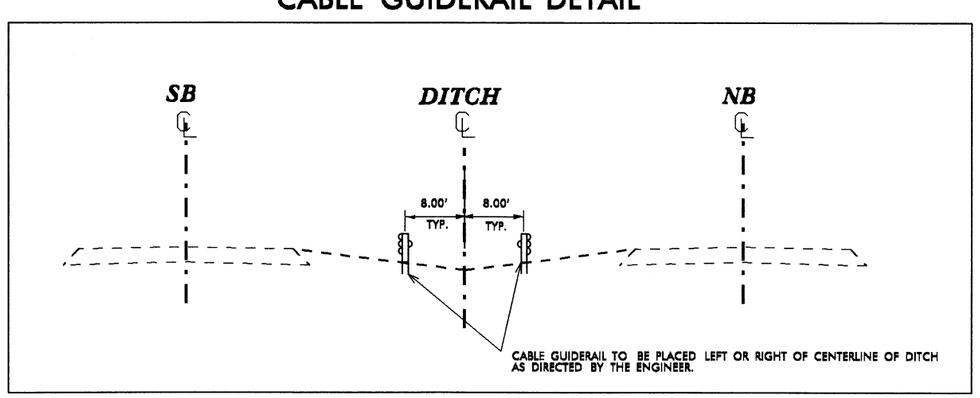

REVISIONS

8/17/99

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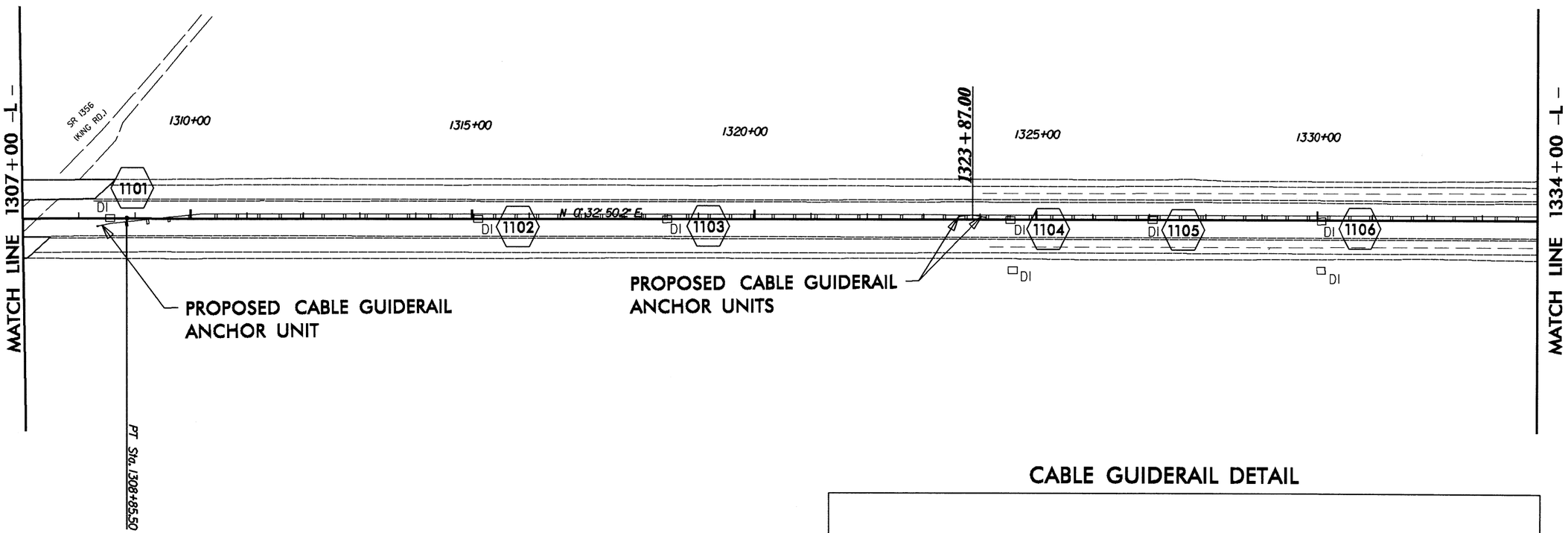
psdavis_pt_DRCAD_270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	11
R/W SHEET NO.	

G S Davis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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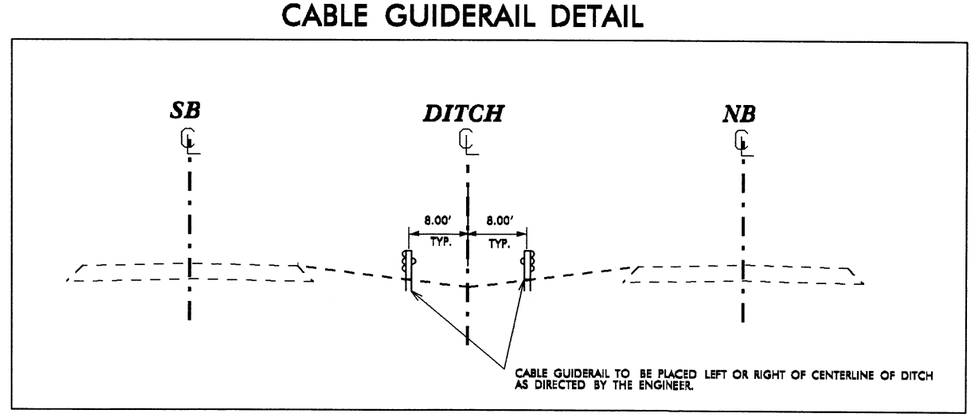

REVISIONS

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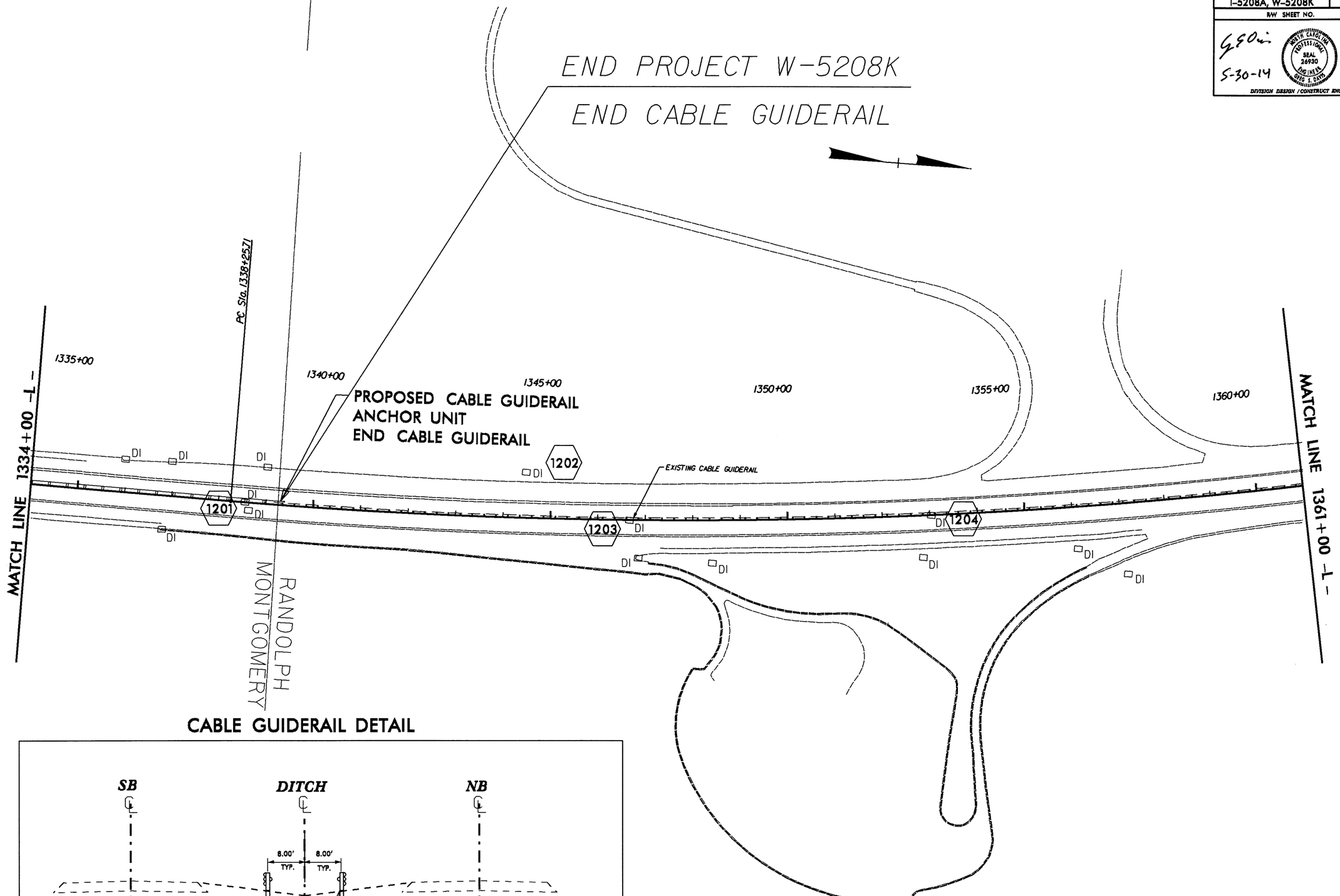
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	12
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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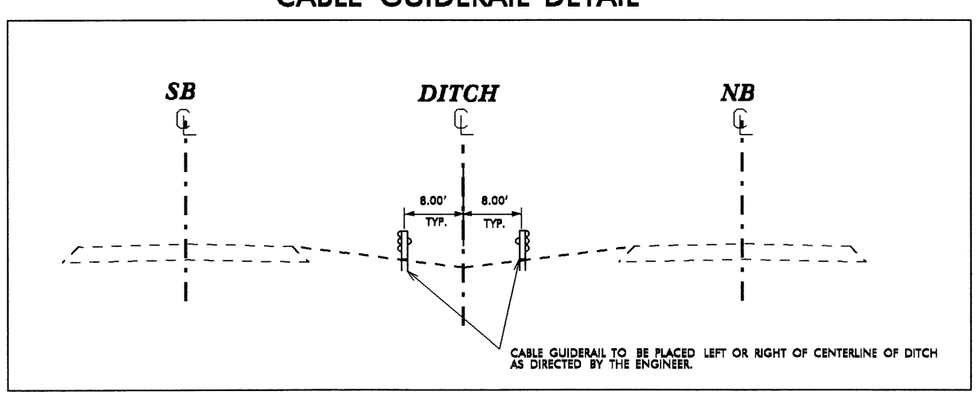

REVISIONS

8/17/99

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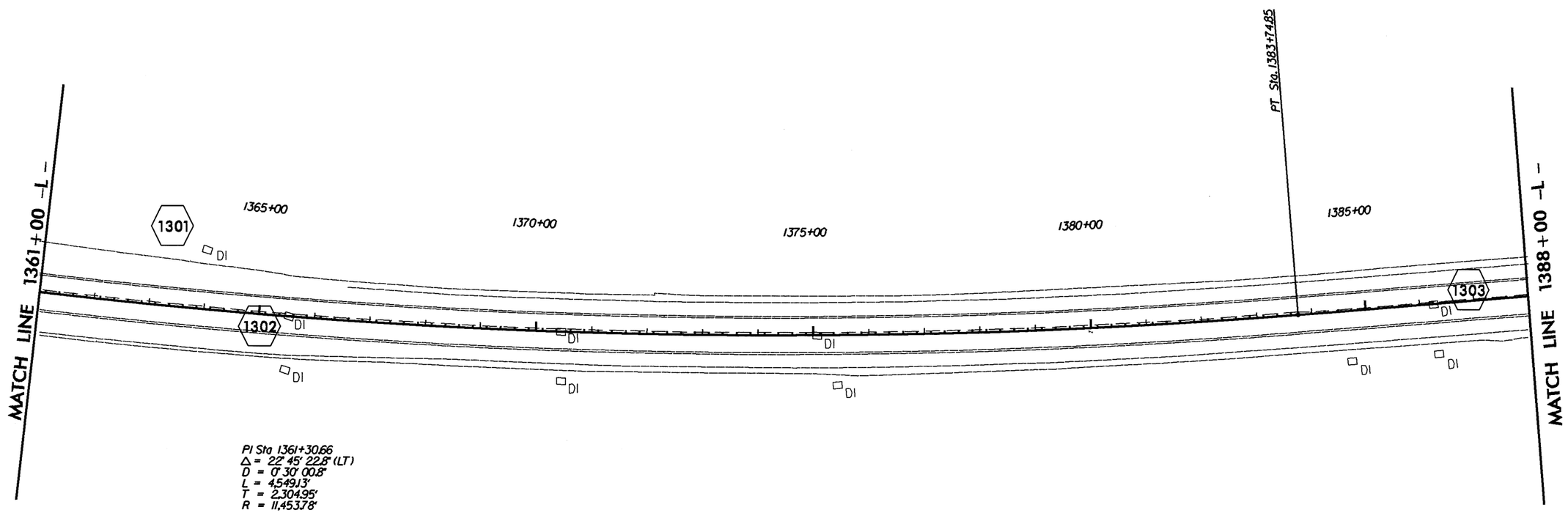
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	13
R/W SHEET NO.	

G.S. Davis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	14
R/W SHEET NO.	

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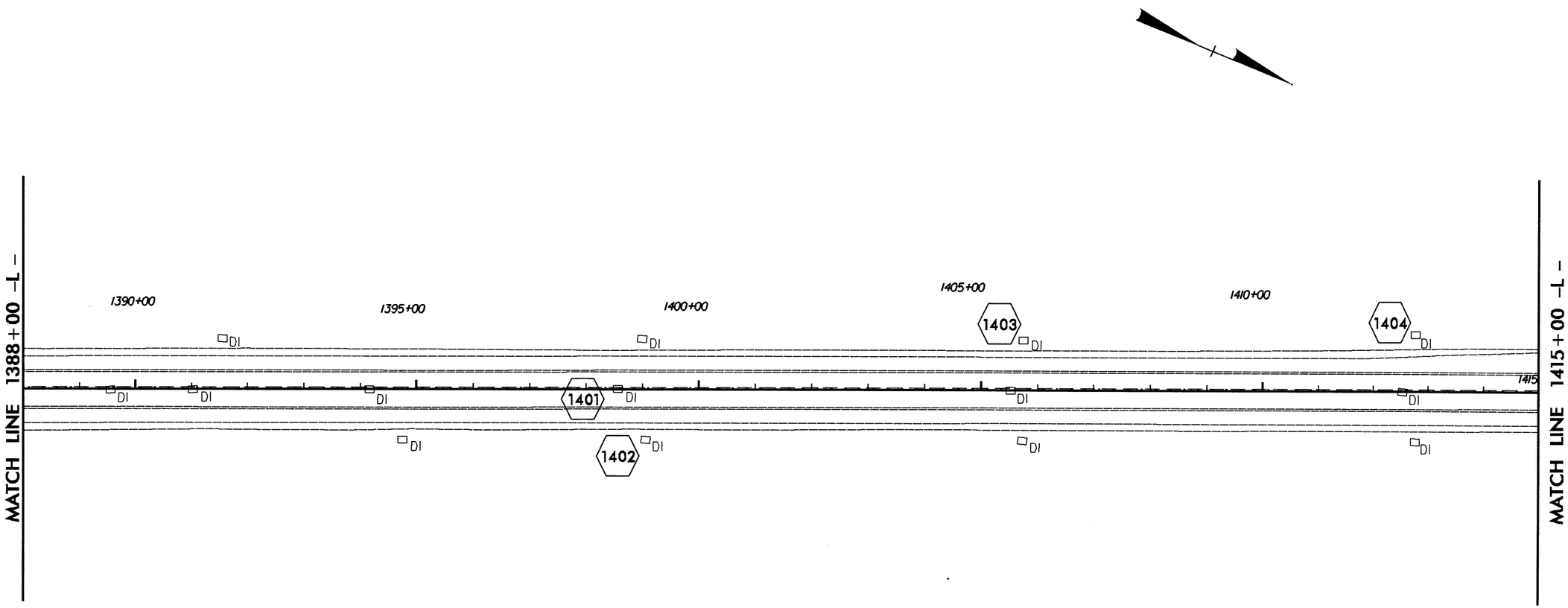
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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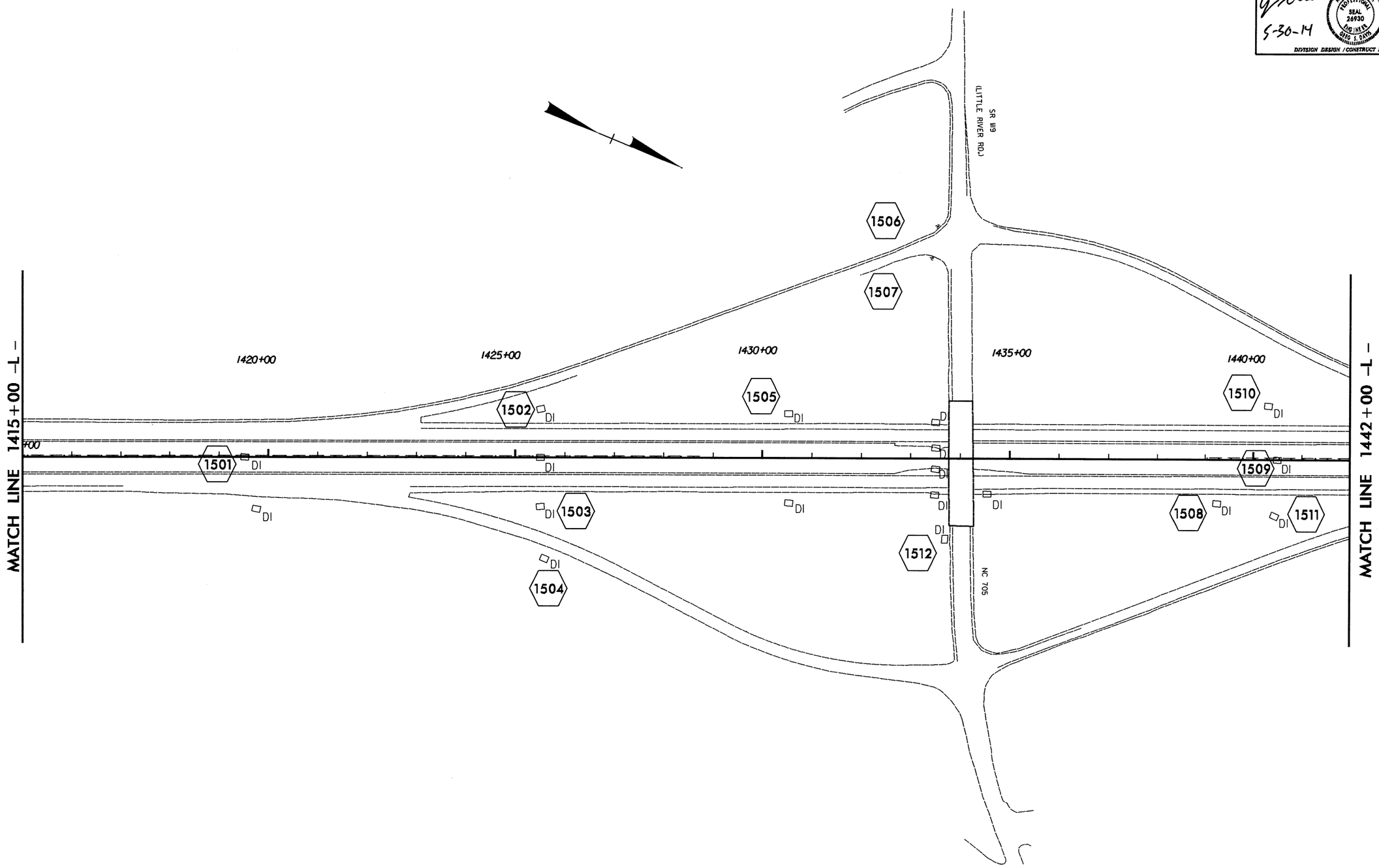
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	15
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

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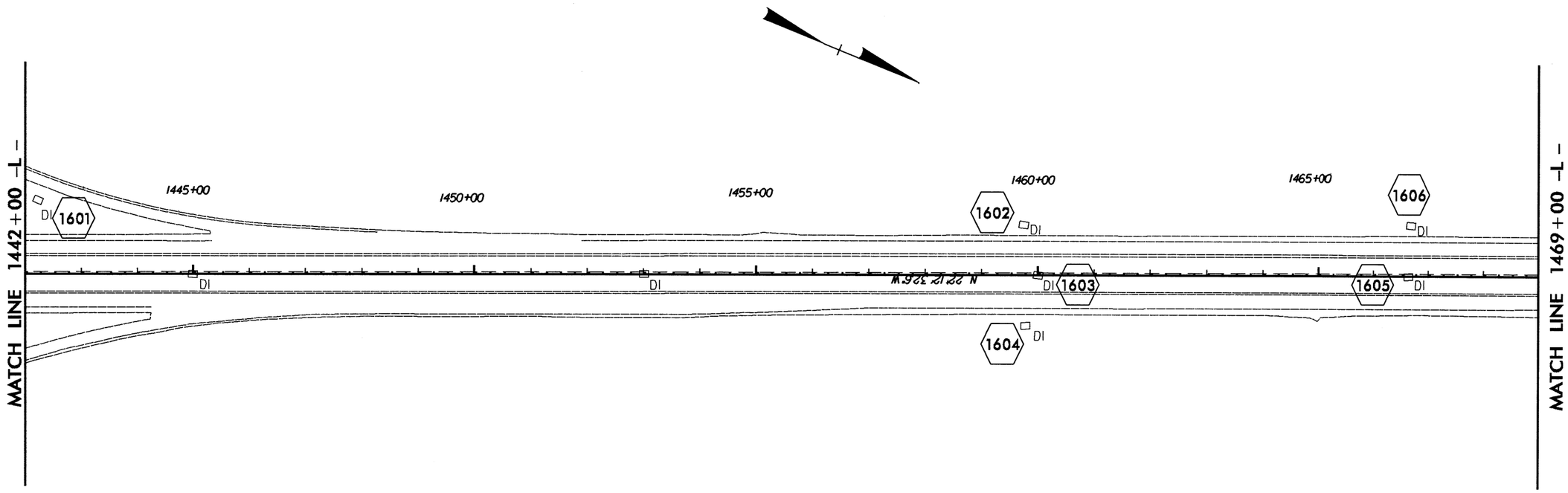
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	16
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

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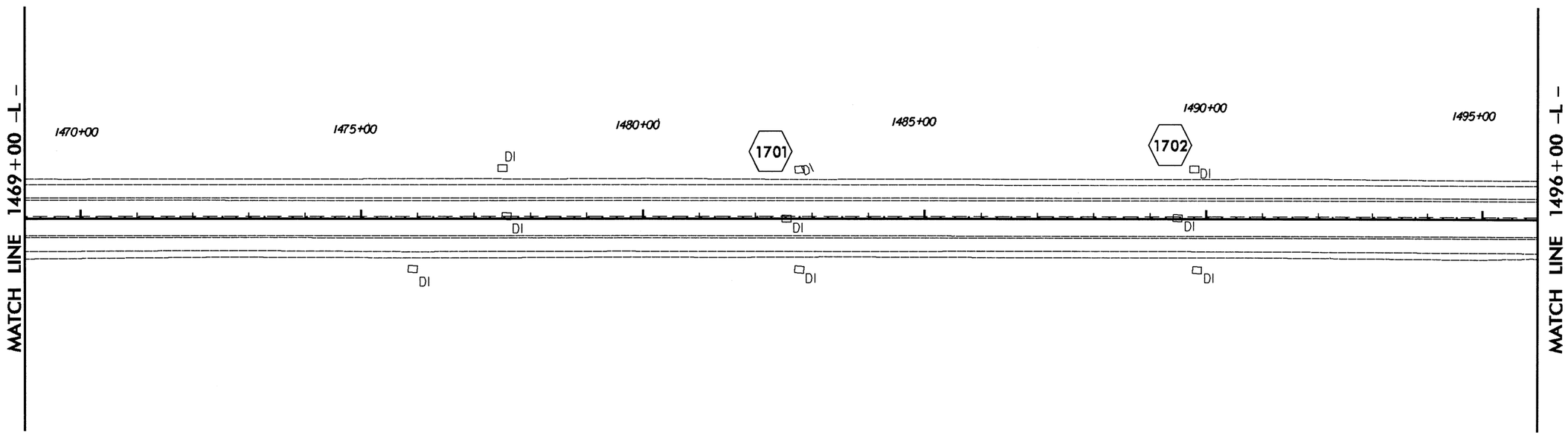
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	17
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER CRAIG E. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	18
R/W SHEET NO.	

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5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. SAIN

DIVISION DESIGN / CONSTRUCT ENGINEER

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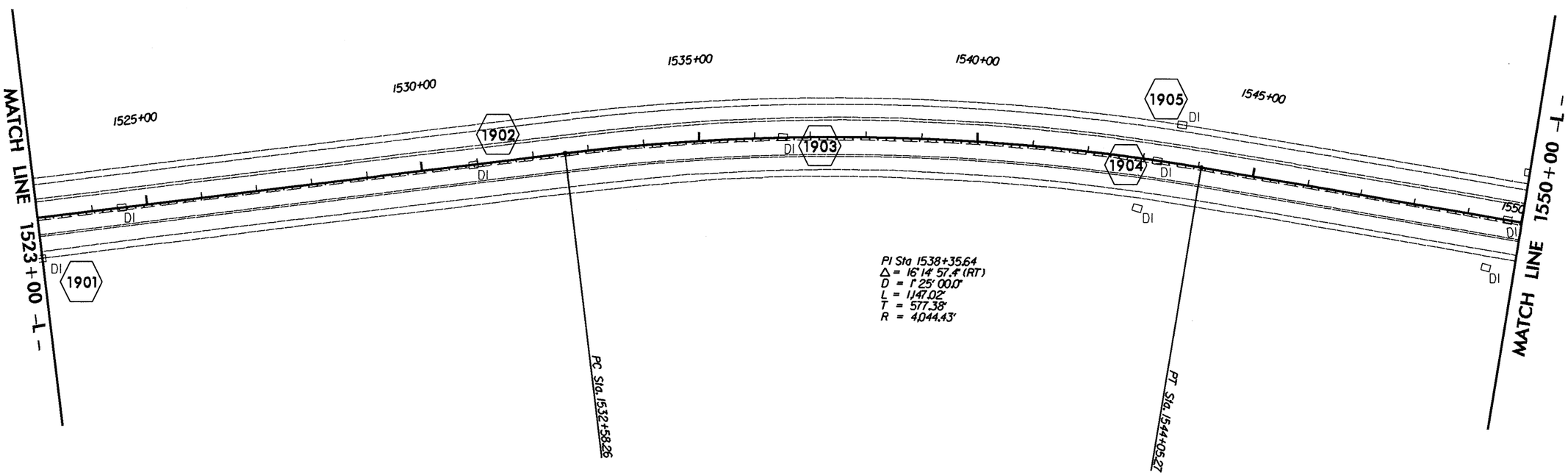
Chris.Alley@DOT.GOV/70410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	19
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 24930 ENGINEER

DIVISION DESIGN / CONSTRUCT ENGINEER



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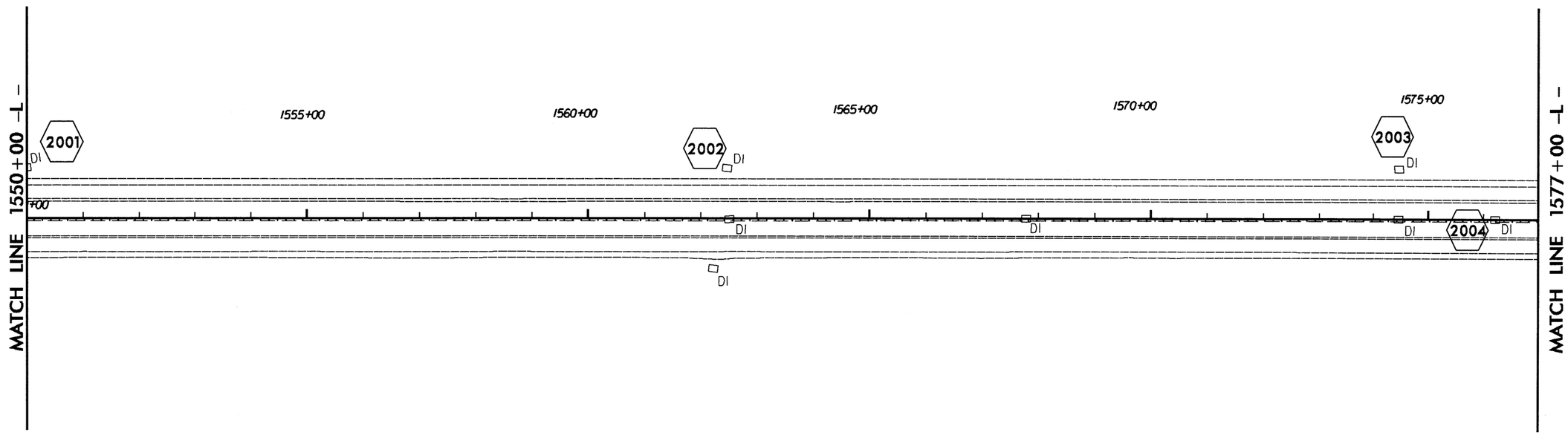
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	20
R/W SHEET NO.	

G.S.O.
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

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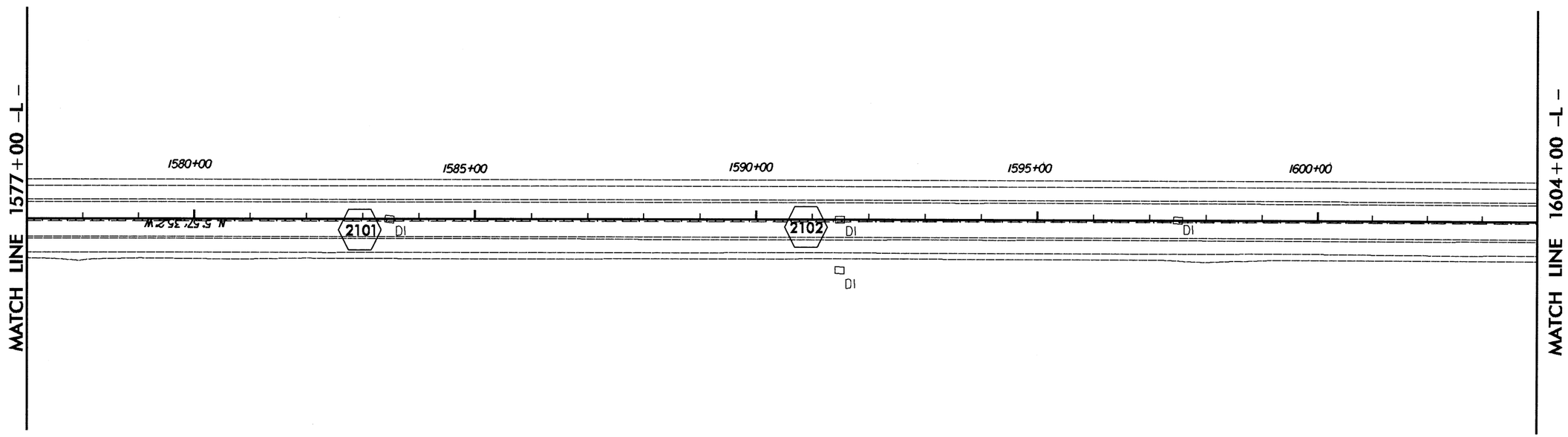
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	21
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

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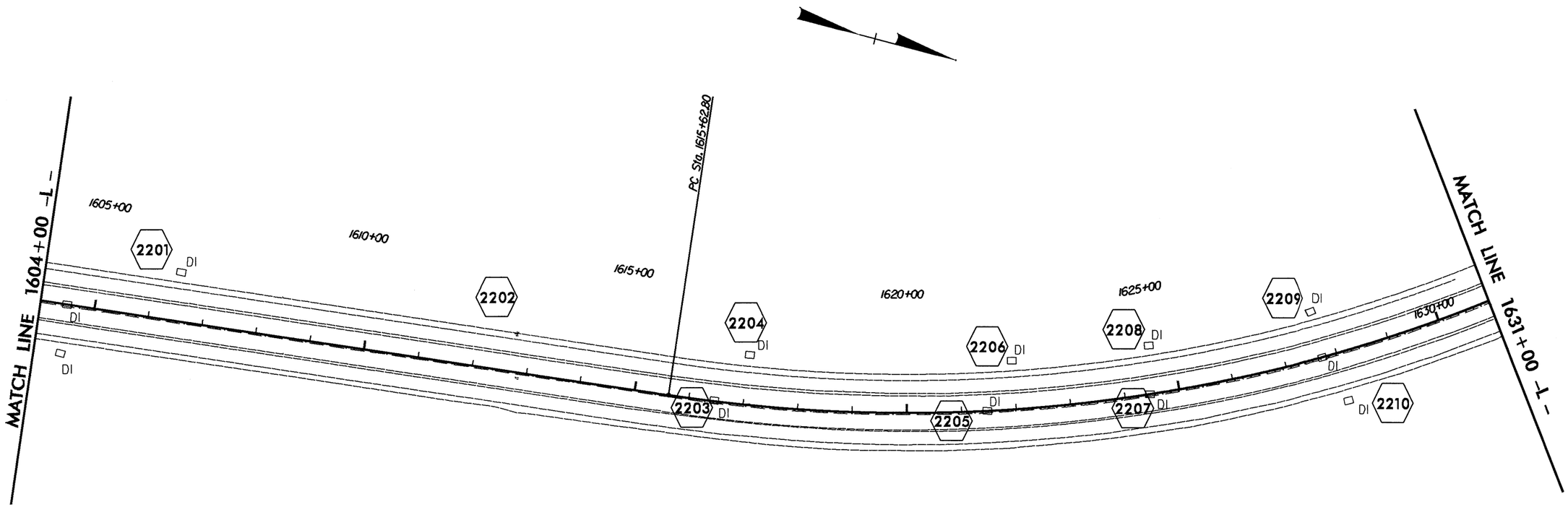
psdavis AT DOT-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	22
R/W SHEET NO.	

S-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



PI Sta 1626+27.95
Δ = 40° 12' 02.7" (LT)
D = 1° 58' 06.7"
L = 2,042.17'
T = 1,065.14'
R = 2,910.58'

REVISIONS

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30-MAY-2014 13:28
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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	23
R/W SHEET NO.	

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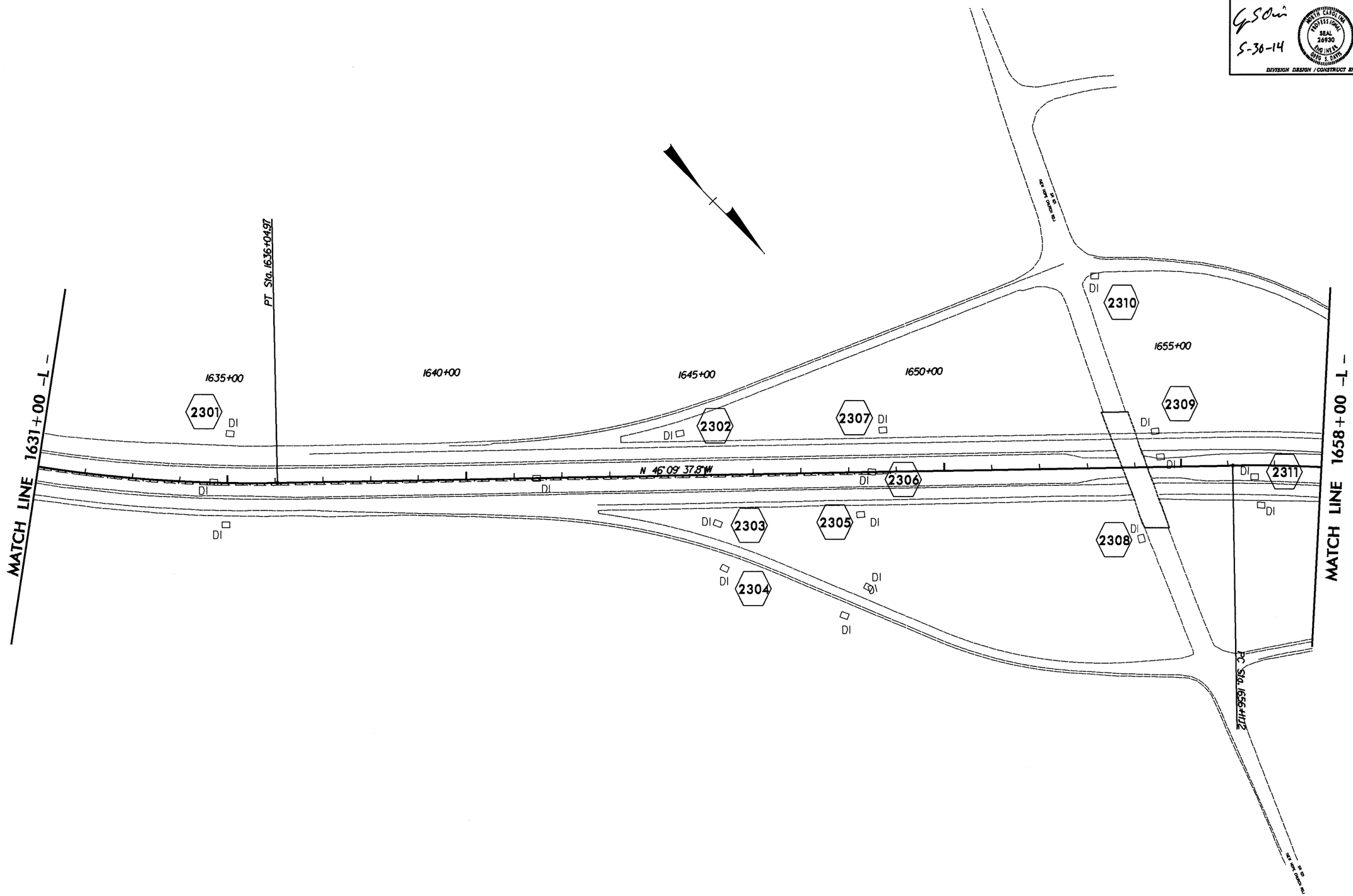
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. ORR

DIVISION DESIGN / CONSTRUCT ENGINEER



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8/17/99

30-MAY-2014 13:28
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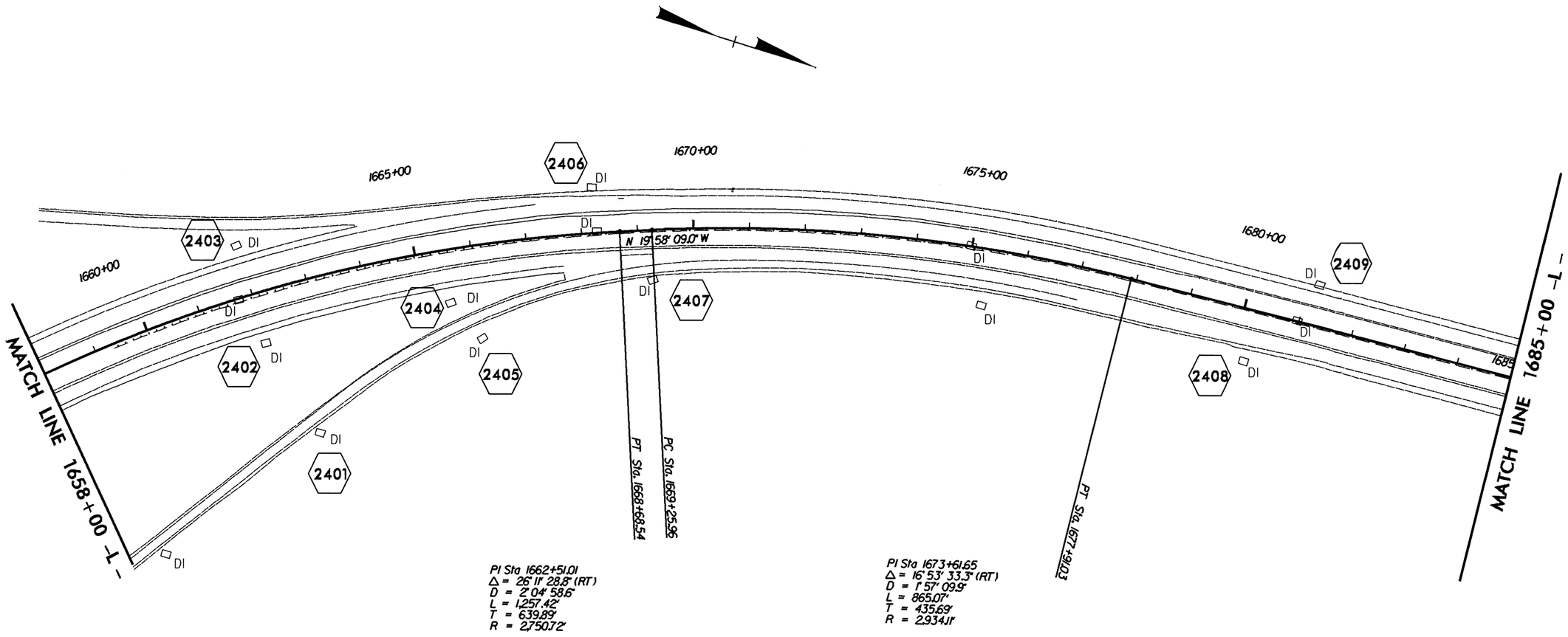
$$IBMPLOT$$ v8.2.0.0 (05.27.2014)

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	24
R/W SHEET NO.	

G.S. Davis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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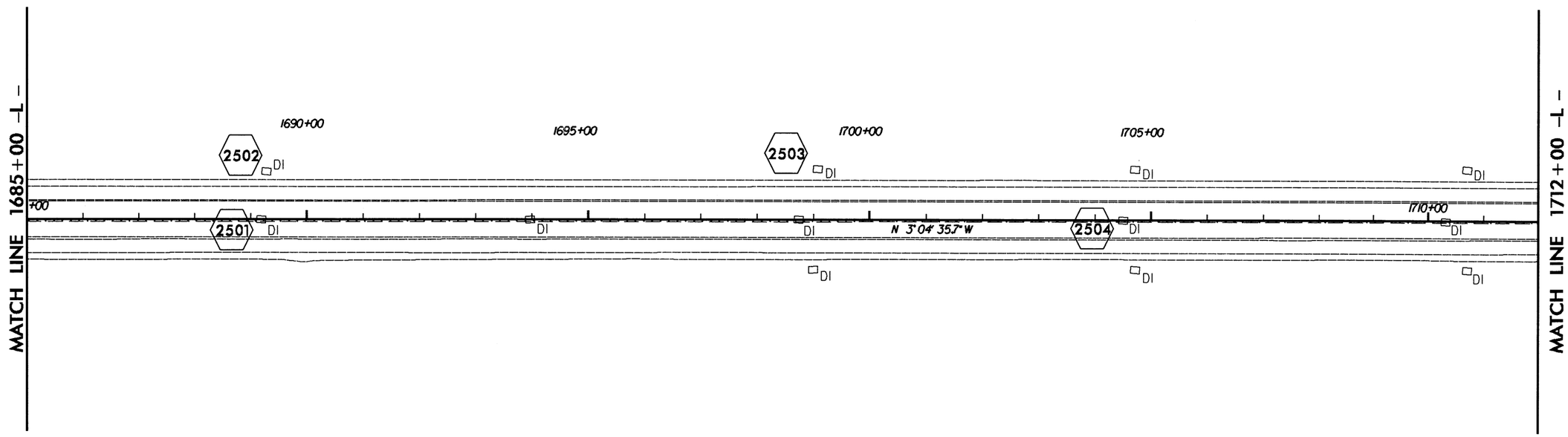
psdavis AT DOT.ND.GOV

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	25
R/W SHEET NO.	

G S Oui
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

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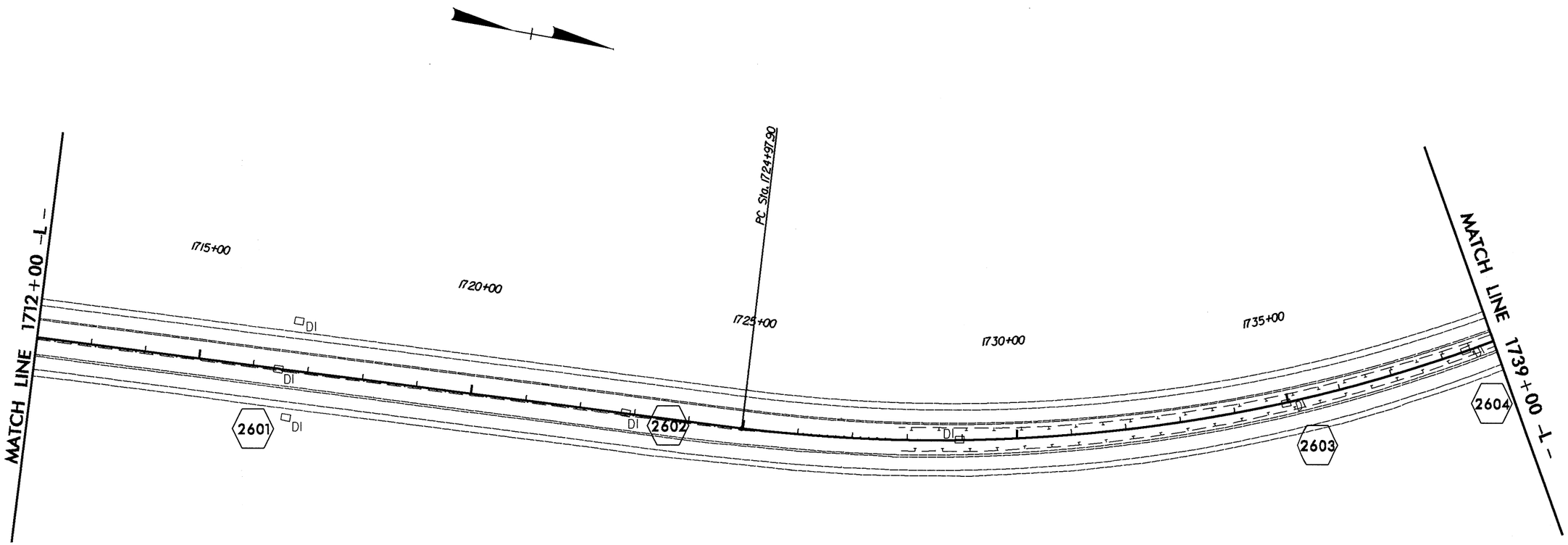
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	26
R/W SHEET NO.	

G S Davis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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D = 1° 55' 09.2"
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R = 2,985.37'

REVISIONS

8/17/99

30-MAY-2014 13:28
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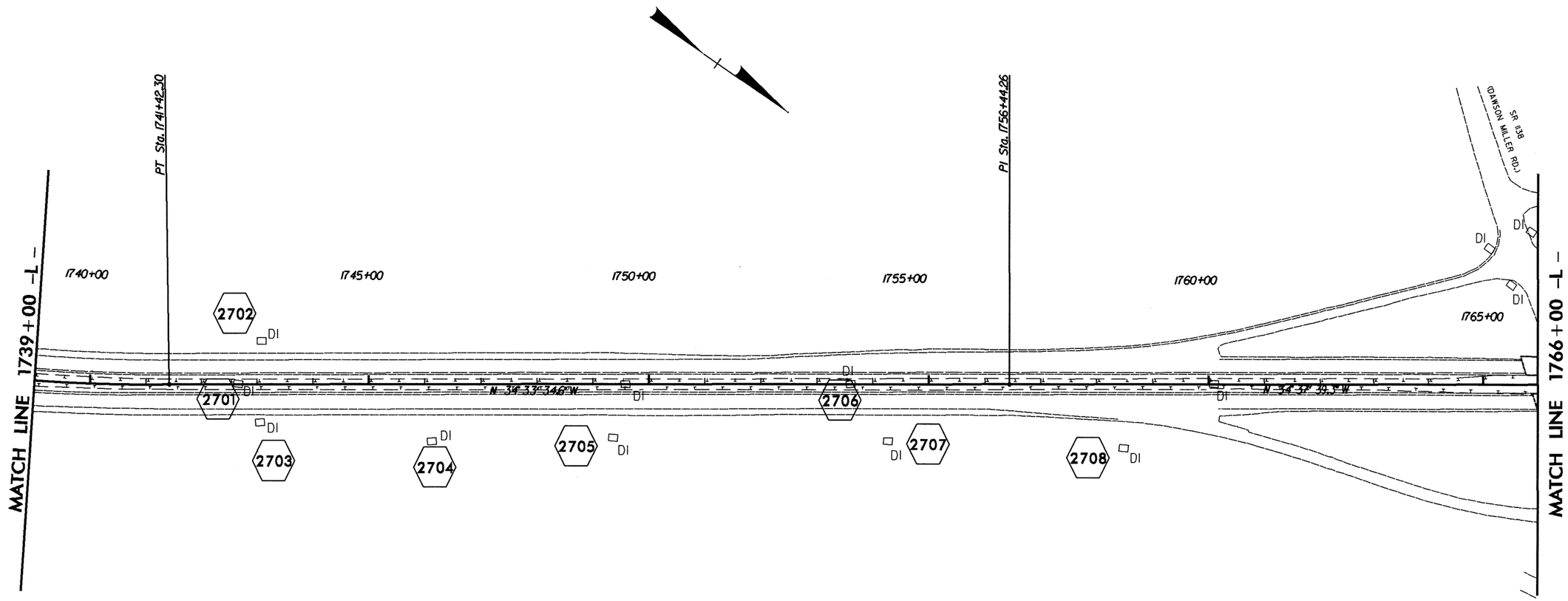
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	27
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	28
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER DAVID J. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

30-MAY-2014 13:28
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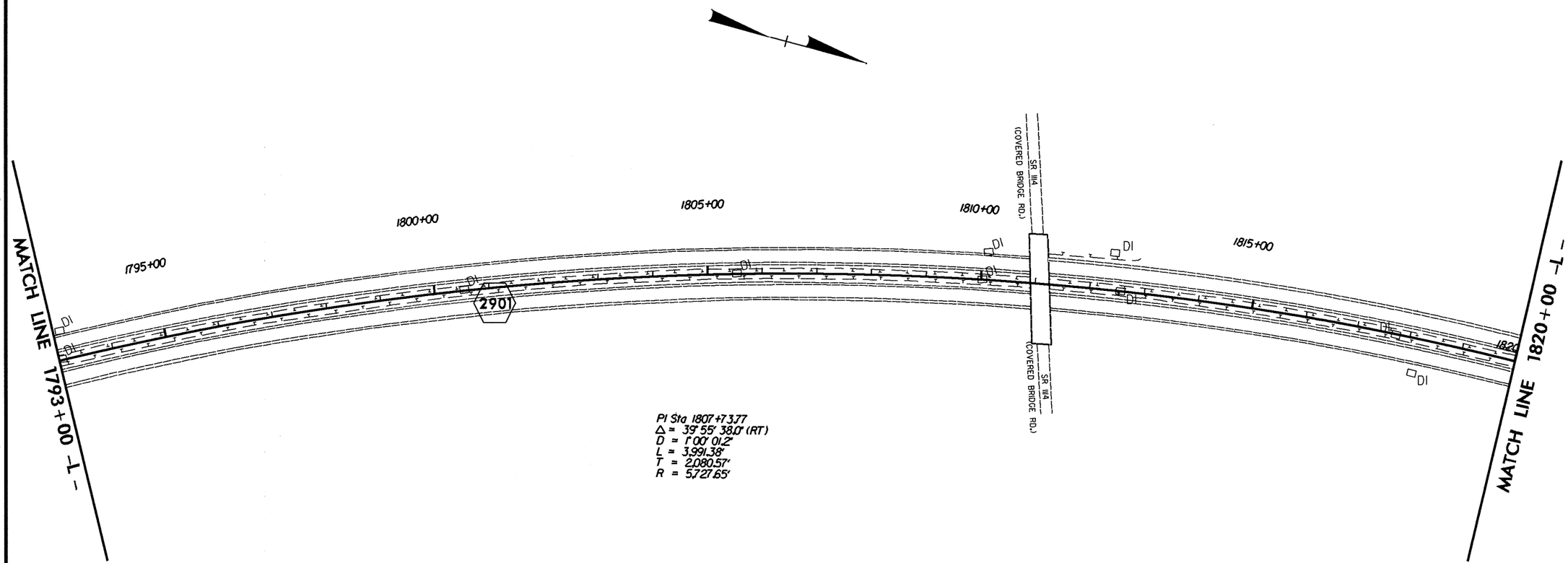
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	29
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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psdavis, AT DRCAD-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	30
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG A. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

30-MAY-2014 13:28
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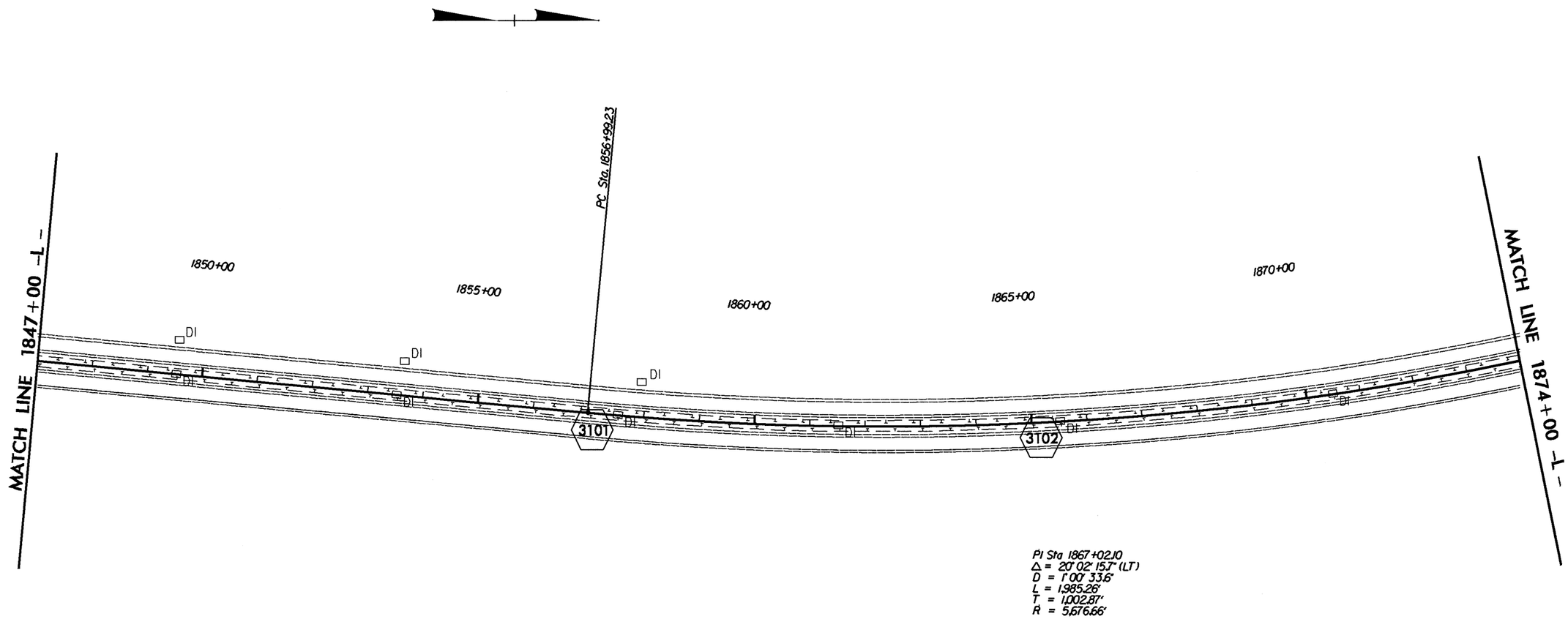
Copyright 2010 Bentley Systems, Incorporated

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	31
R/W SHEET NO.	

G S Davis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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T = 1,002.87'
R = 5,676.66'

REVISIONS

8/17/99

30-MAY-2014 13:28
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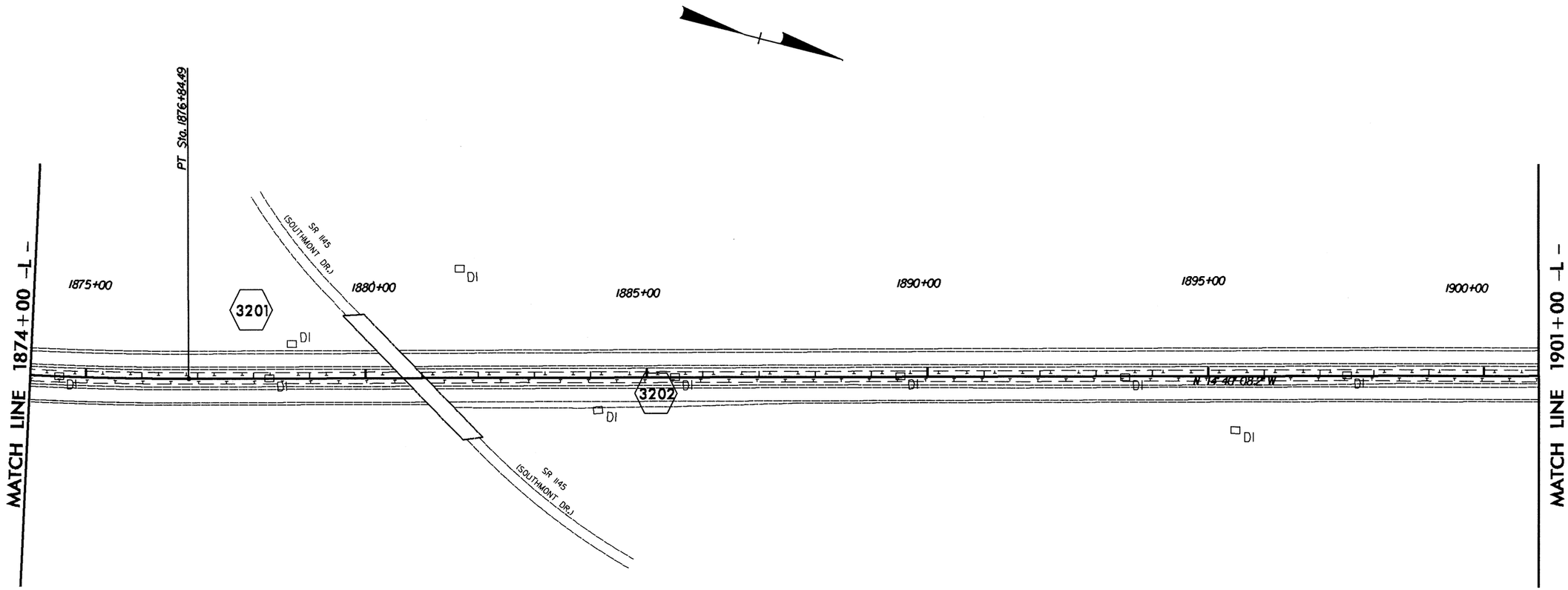
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	32
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEERS



REVISIONS

8/17/99

30-MAY-2014 13:28
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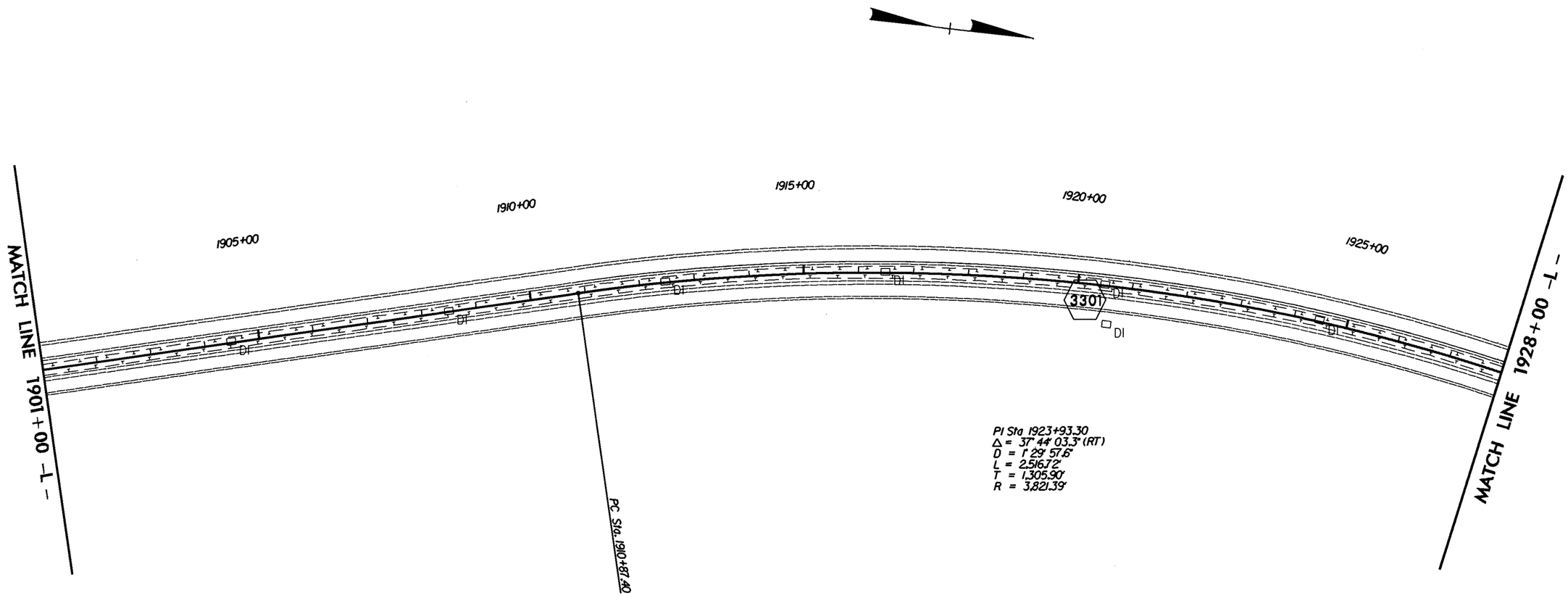
bmoss

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	33
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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psdavis AT DRCAD-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	34
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG T. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

30-MAY-2014 13:28
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esdaus-project8 DBA 08.05.07.0410

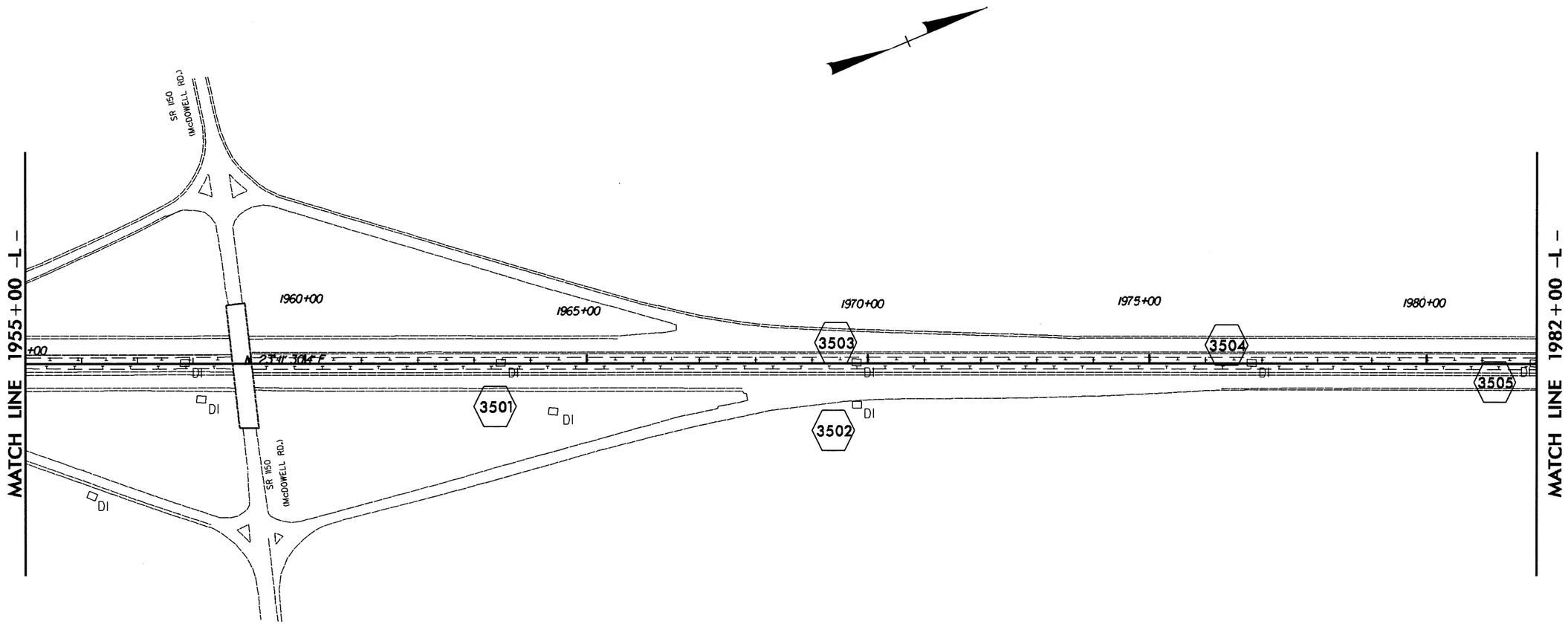
8/17/93

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	35
R/W SHEET NO.	

G S Davis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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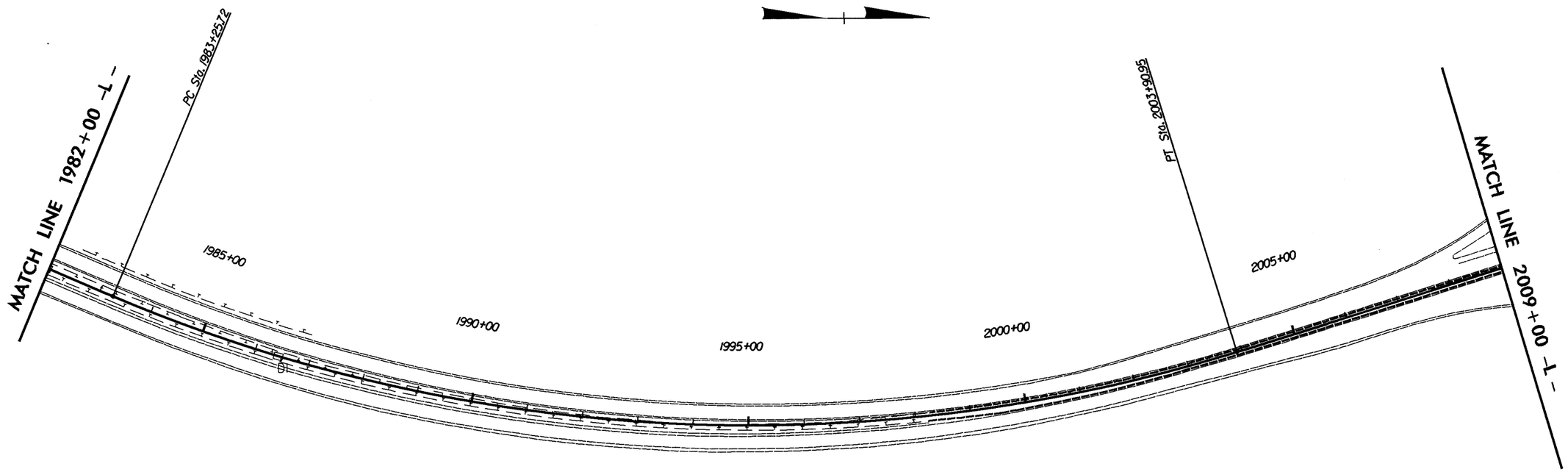
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	36
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



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T = 1,076.93'
R = 2,951.12'

REVISIONS

8/17/99

30-MAY-2014 13:28
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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	37
R/W SHEET NO.	

G.G.Ow
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG G. OWEN

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

30-MAY-2014 13:28
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Lenovo Administrator

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	38
R/W SHEET NO.	

G.S.Oni
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. CAYO

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

30-MAY-2014 13:28
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default User(DOT)2014.0

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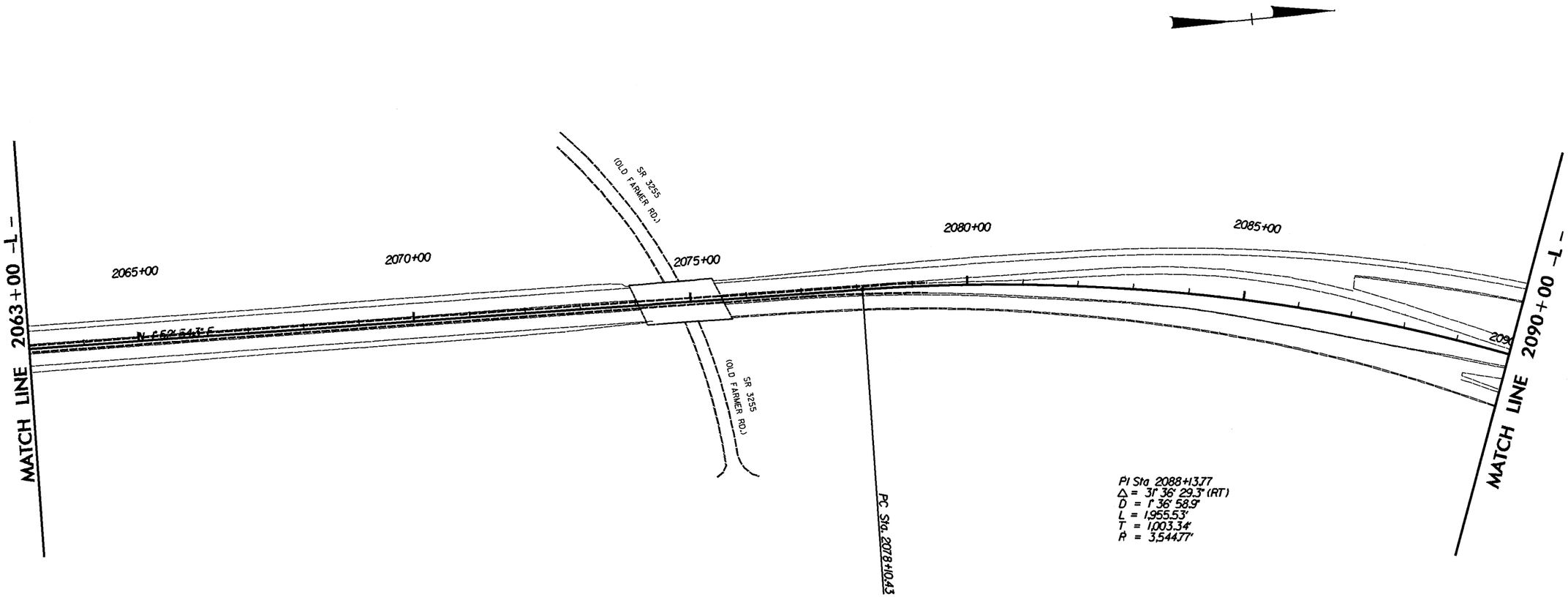
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	39
R/W SHEET NO.	

G S Ovis
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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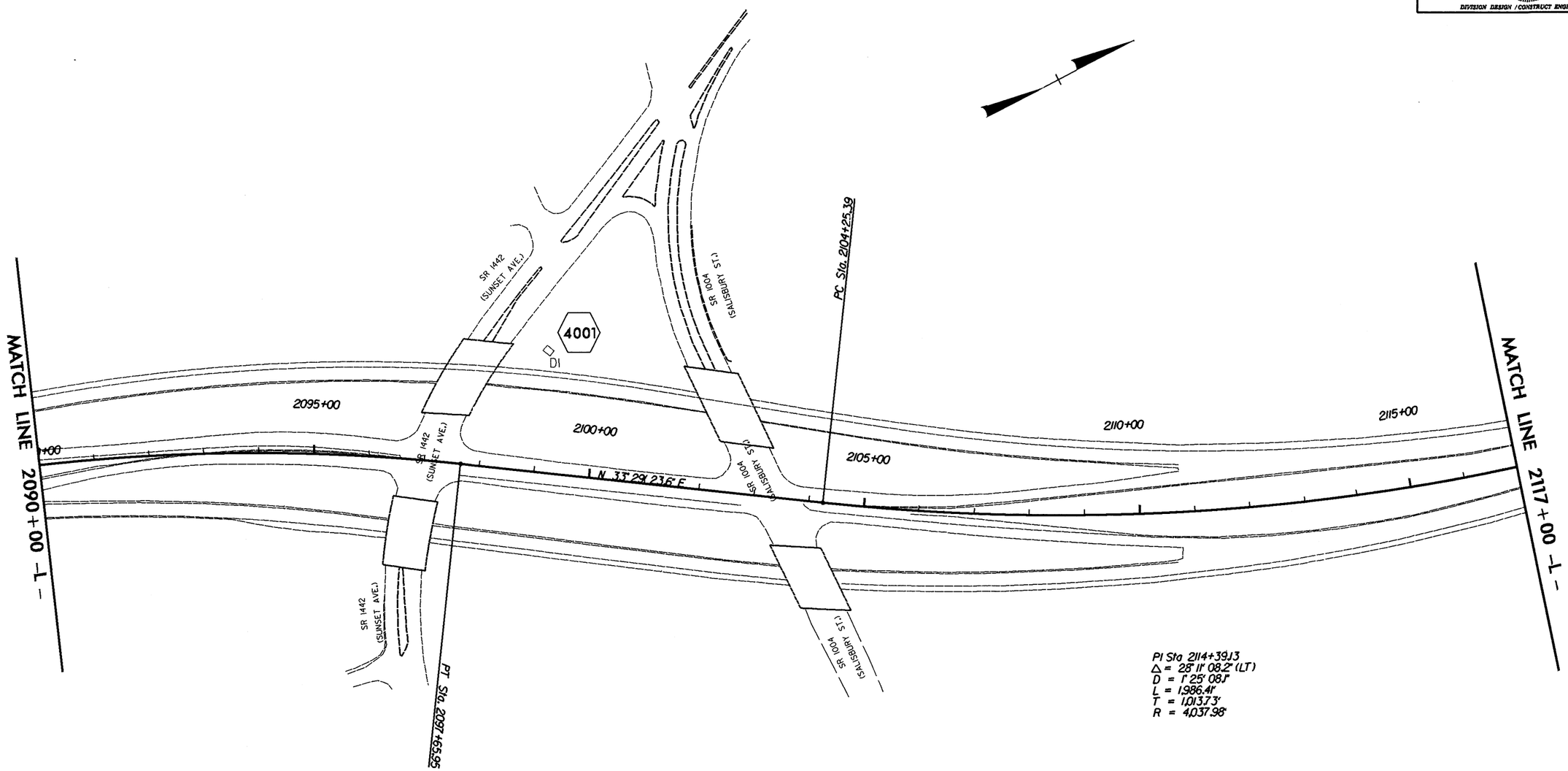
osdavis DI DRCAD-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	40
R/W SHEET NO.	

G S Ovi
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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psdavis AT DRAFT-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	41
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG E. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

30-MAY-2014 13:26
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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	42
R/W SHEET NO.	

G S Oni
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. ONI

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

30-MAY-2014 13:28
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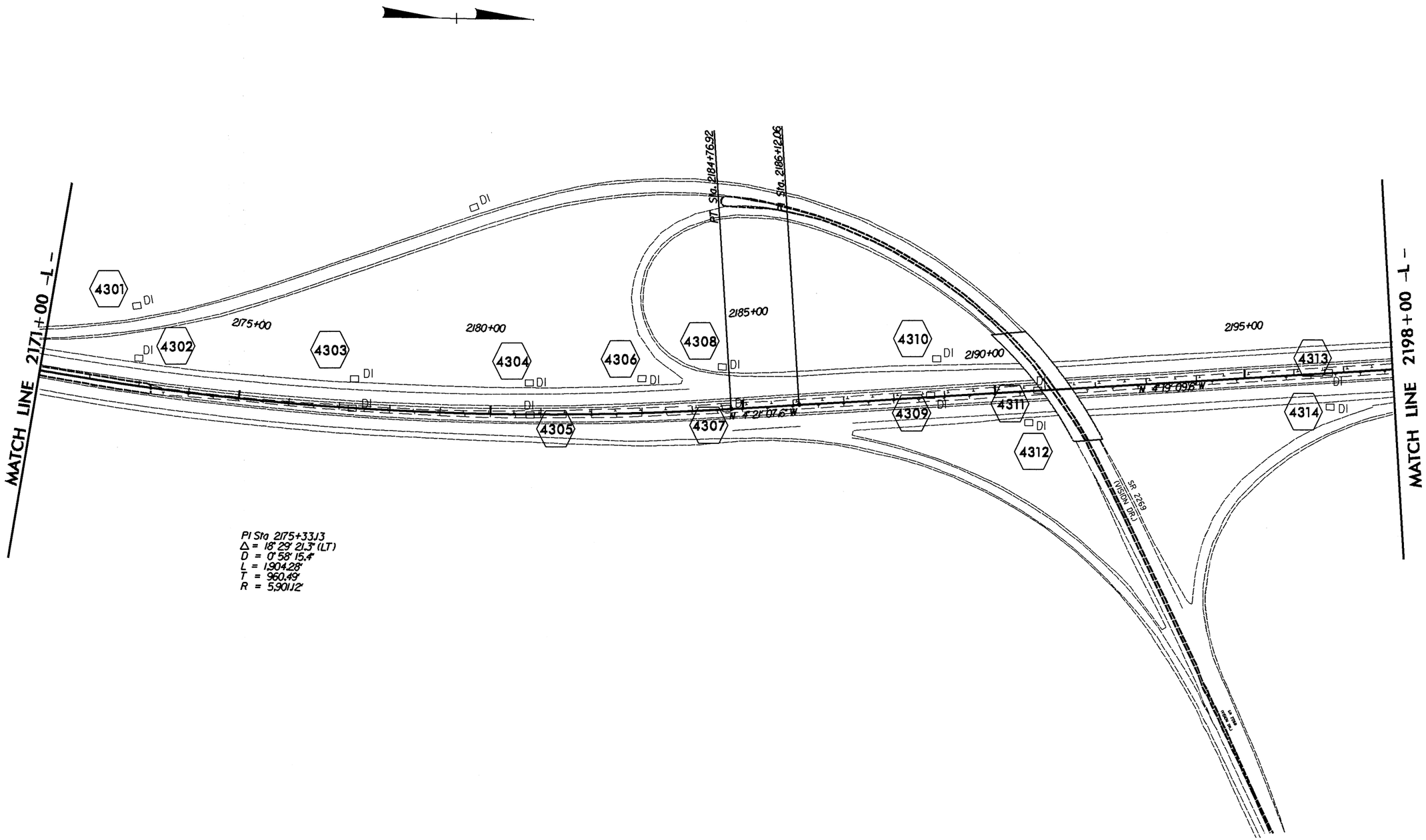
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	43
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 14:54
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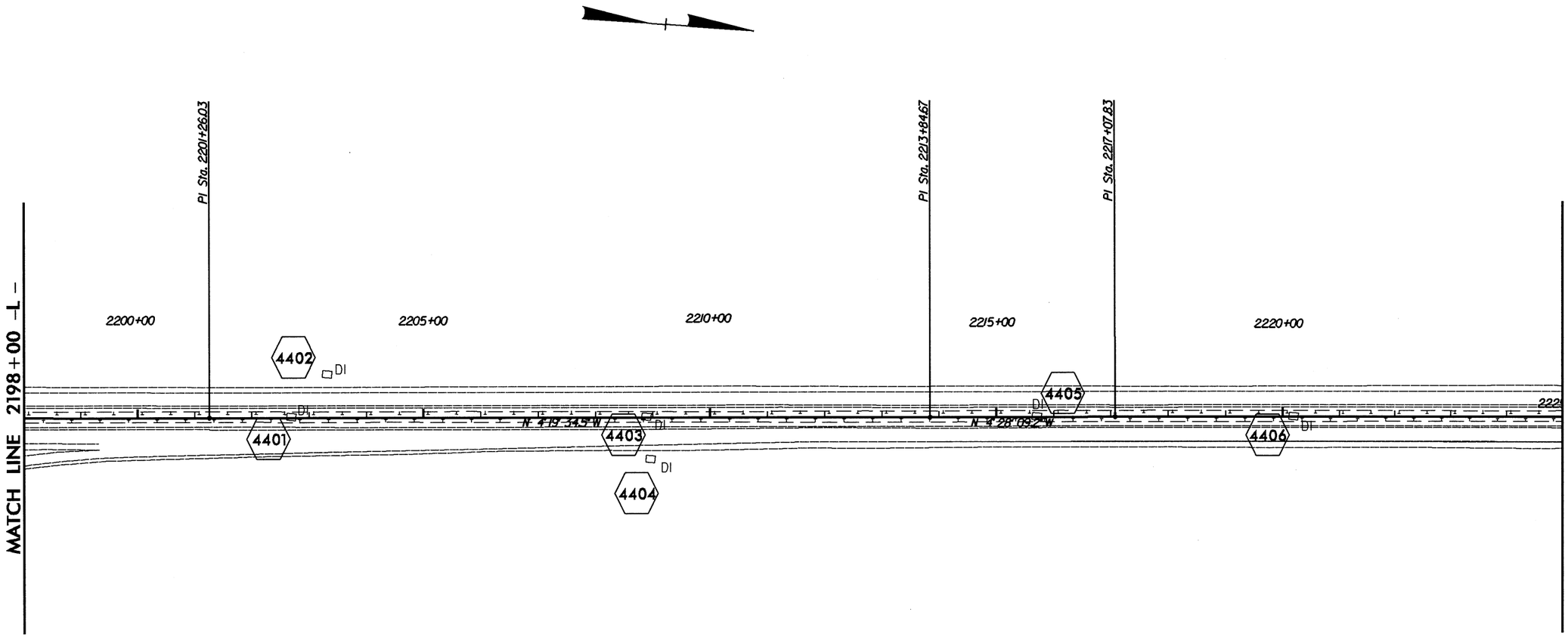
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	44
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG A. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:28
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cfowle dlmt-ardi>70410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	45
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

30-MAY-2014 13:29
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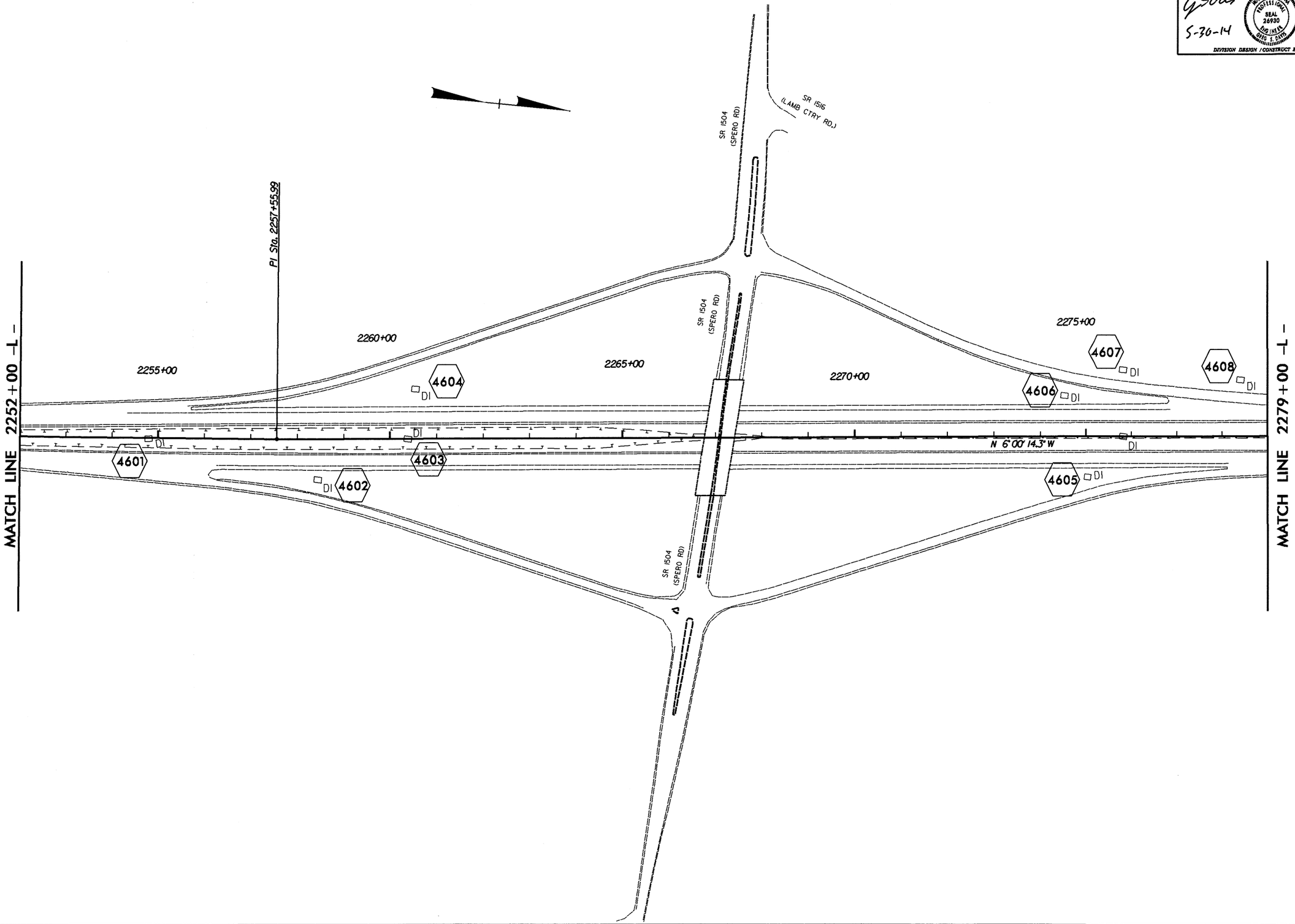
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	46
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:29
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PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	47
R/W SHEET NO.	

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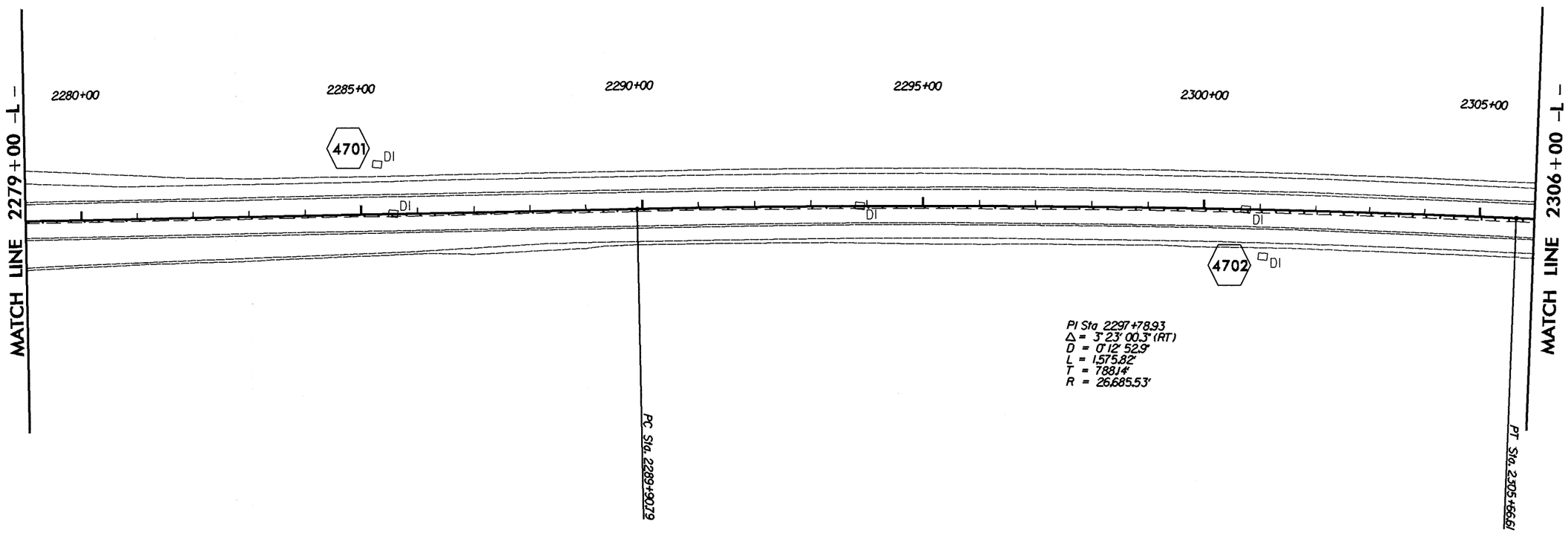
5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:29
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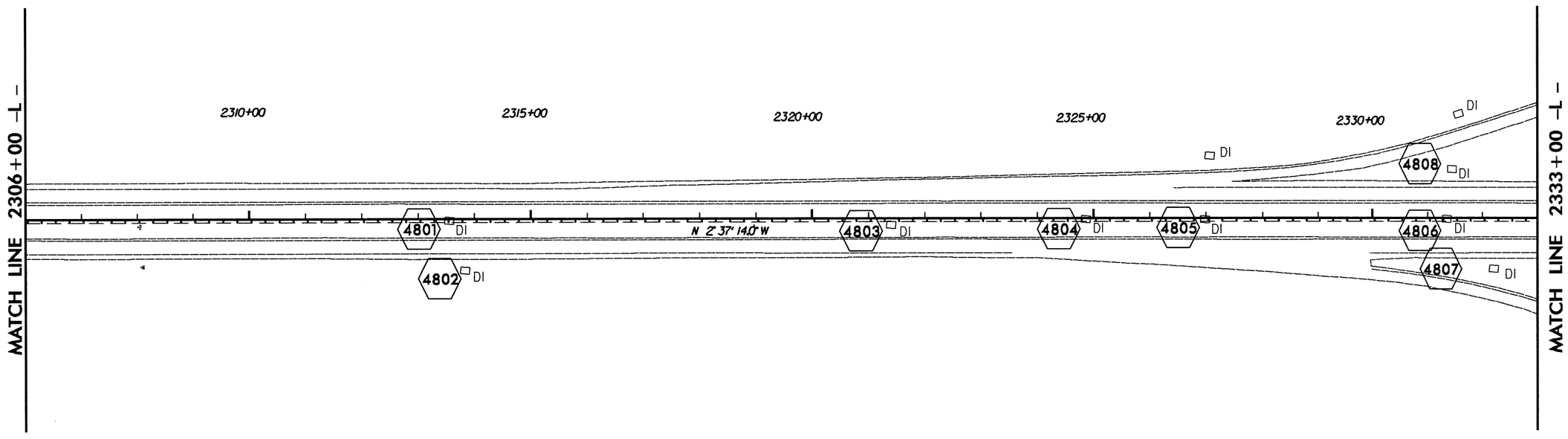
psdavis DI DRAFT-270410

PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	48
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:29
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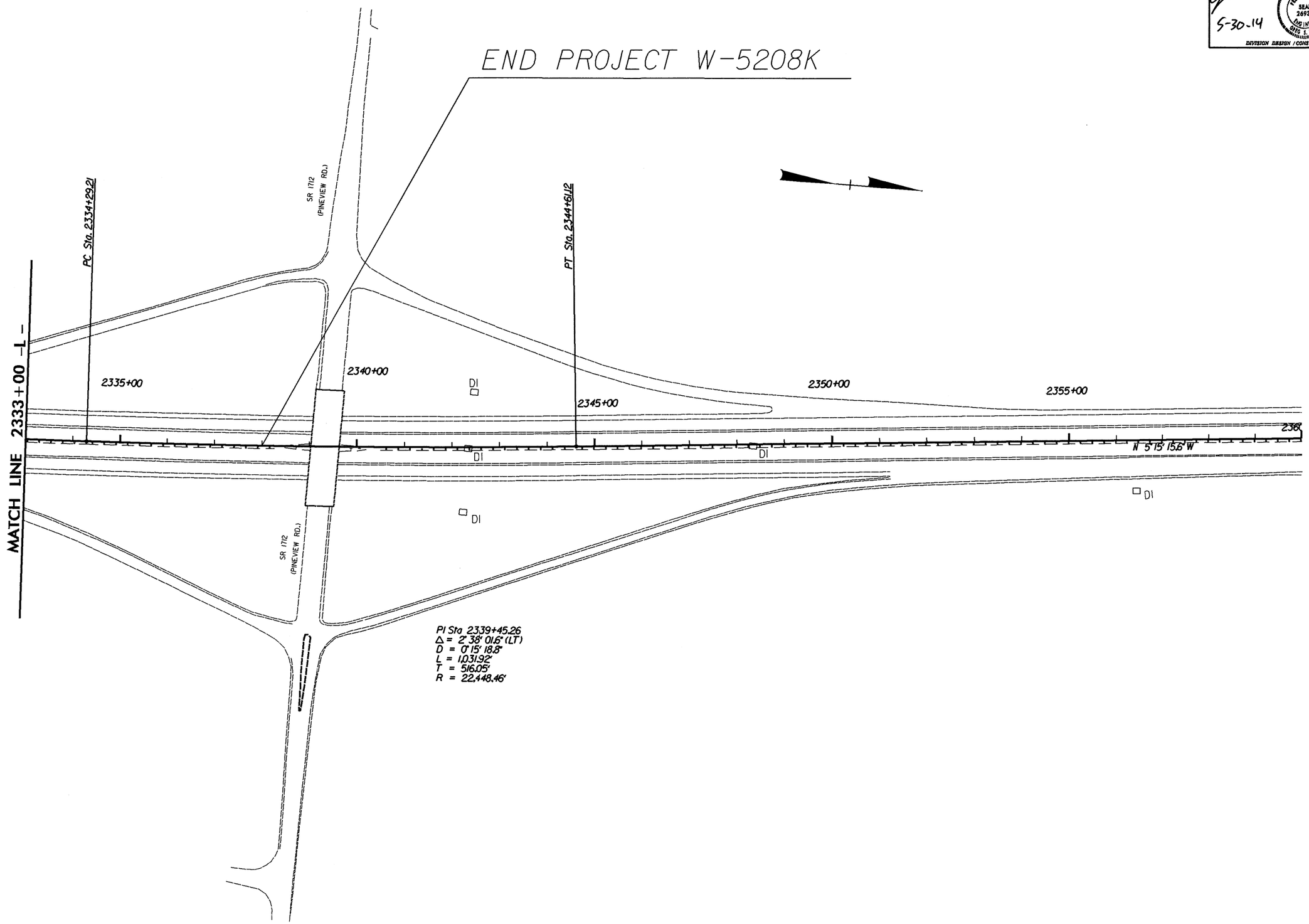
PROJECT REFERENCE NO.	SHEET NO.
I-5208A, W-5208K	49
R/W SHEET NO.	

5-30-14

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DIVISION DESIGN / CONSTRUCT ENGINEER



REVISIONS

8/17/99

30-MAY-2014 13:29
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