

TIP NO. U-3309A	SHEET NO. SIGN-1
APPROVED: _____	
DATE: _____	
SEAL	

SIGNING PLAN DURHAM COUNTY

T.I.P.: U-3309A

CONTRACT: C202064

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE GRADE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.

SUMMARY OF QUANTITIES


ITEM NO.	DESC. NO.	SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4048000000	902		REINFORCED CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903		SUPPORTS, BREAKAWAY STEEL BEAM	218	LB.
4072000000	903		SUPPORTS, 3 LB U-CHANNEL	2423	L.F.
4096000000	904		SIGN ERECTION, TYPE D	2	EA.
4102000000	904		SIGN ERECTION, TYPE E	156	EA.
4108000000	904		SIGN ERECTION, TYPE F	8	EA.
4110000000	904		SIGN ERECTION, TYPE A (GROUND MOUNTED)	1	EA.
4116100000	904		SIGN ERECTION, RELOCATE SIGN TYPE E	1	EA.
4152000000	907		DISPOSAL OF SIGN SYSTEM, STEEL BEAM	1	EA.
4155000000	907		DISPOSAL OF SIGN SYSTEM, U-CHANNEL	42	EA.
4192000000	907		DISPOSAL OF SUPPORT, U-CHANNEL	1	EA.

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

_____ R. KING, P.E. STATE SIGNING & DELINEATION ENGINEER
 _____ S. JOHNS SIGNING & DELINEATION DESIGN ENGINEER

INDEX

SHEET NO.	DESCRIPTION
SIGN - 1	SIGNING PLAN - SUMMARY OF QUANTITIES, ROADWAY STANDARD DRAWINGS, INDEX, & NOTES
SIGN - 2 - 2D	SUPPORT INFORMATION
SIGN - 3 & 3A	SIGN DESIGN SHEET & "E" AND "F" SHEET
SIGN - 4 - 11	SIGN ROADWAY SHEETS

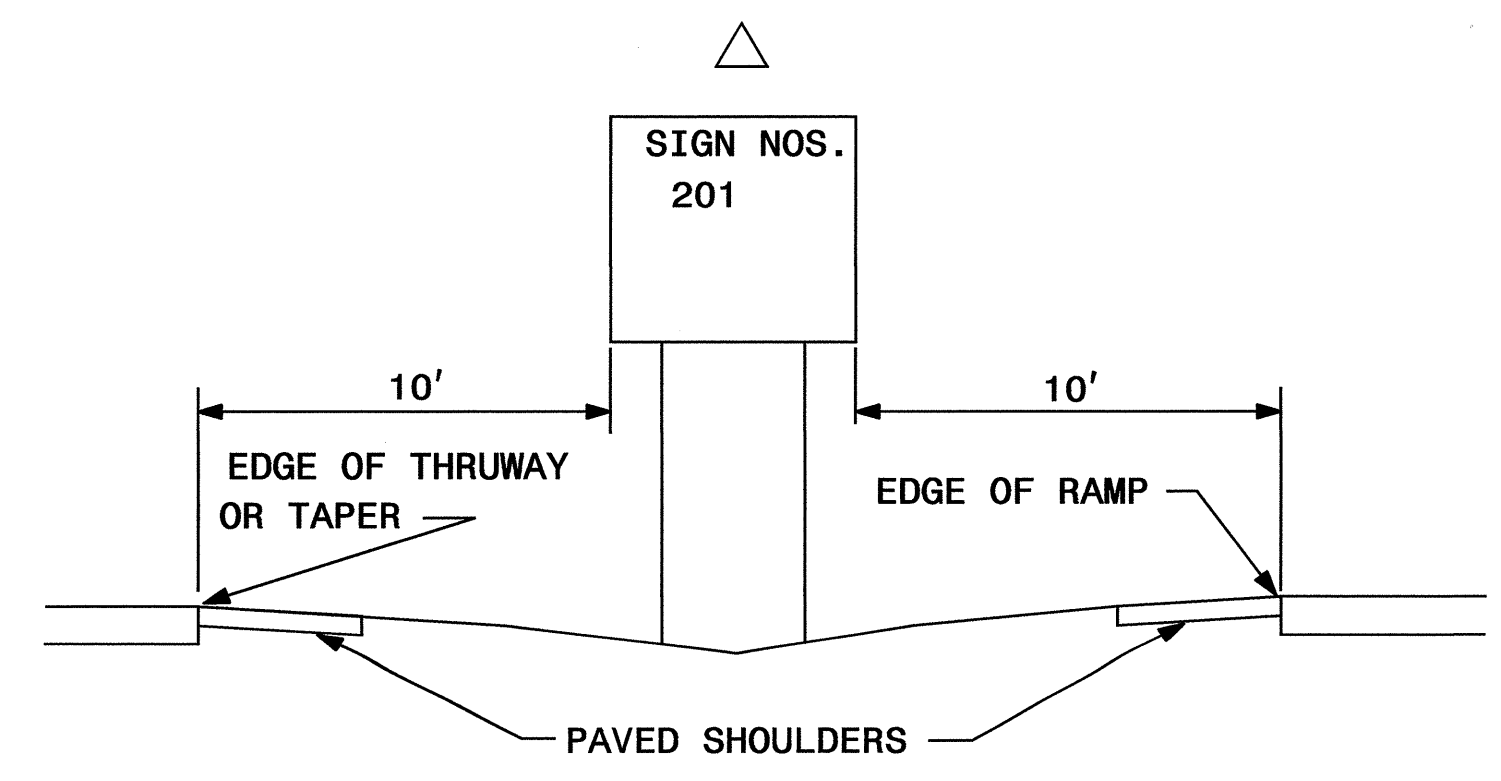
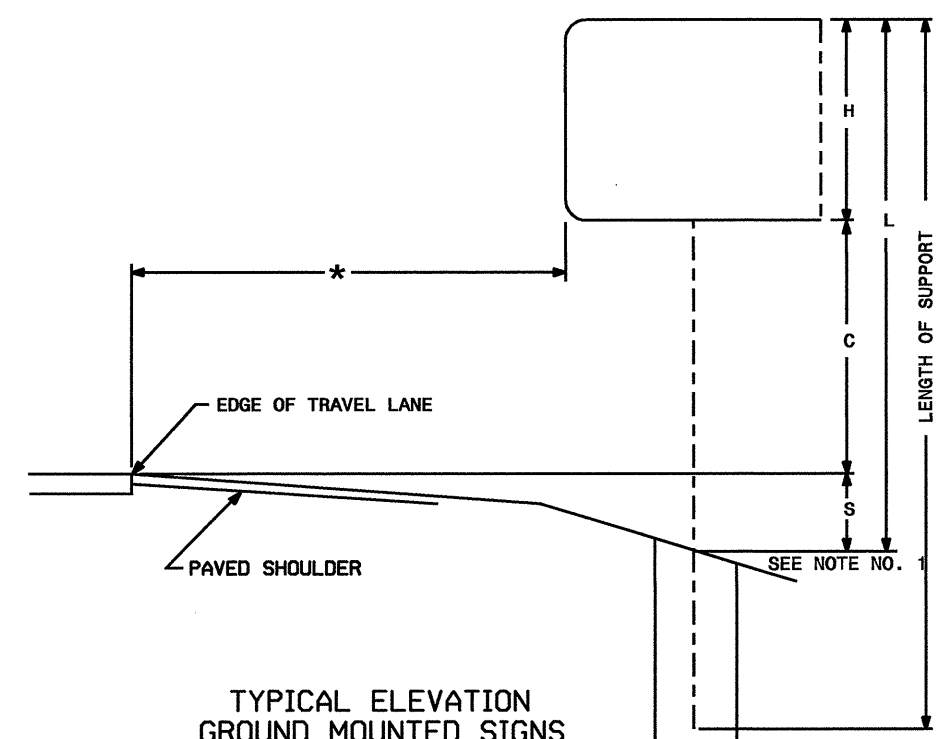
TIP NO. U-3309A	SHEET NO. SIGN-2
APPROVED: _____	
DATE: _____	
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SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h								SNS HT	MTG HT	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH						
201	A	60	X	60	RPA 11+00	2	S3x5.7	BA	N/A	N/A	△	5.00	7.00	3	1.00	13.00	16.00	0.00	0.00	0.00	1.00	13.00	16.00	1	3.5	217.93	0.00	0.20	

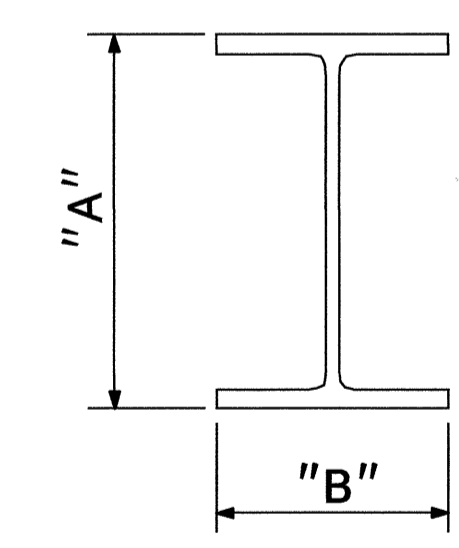
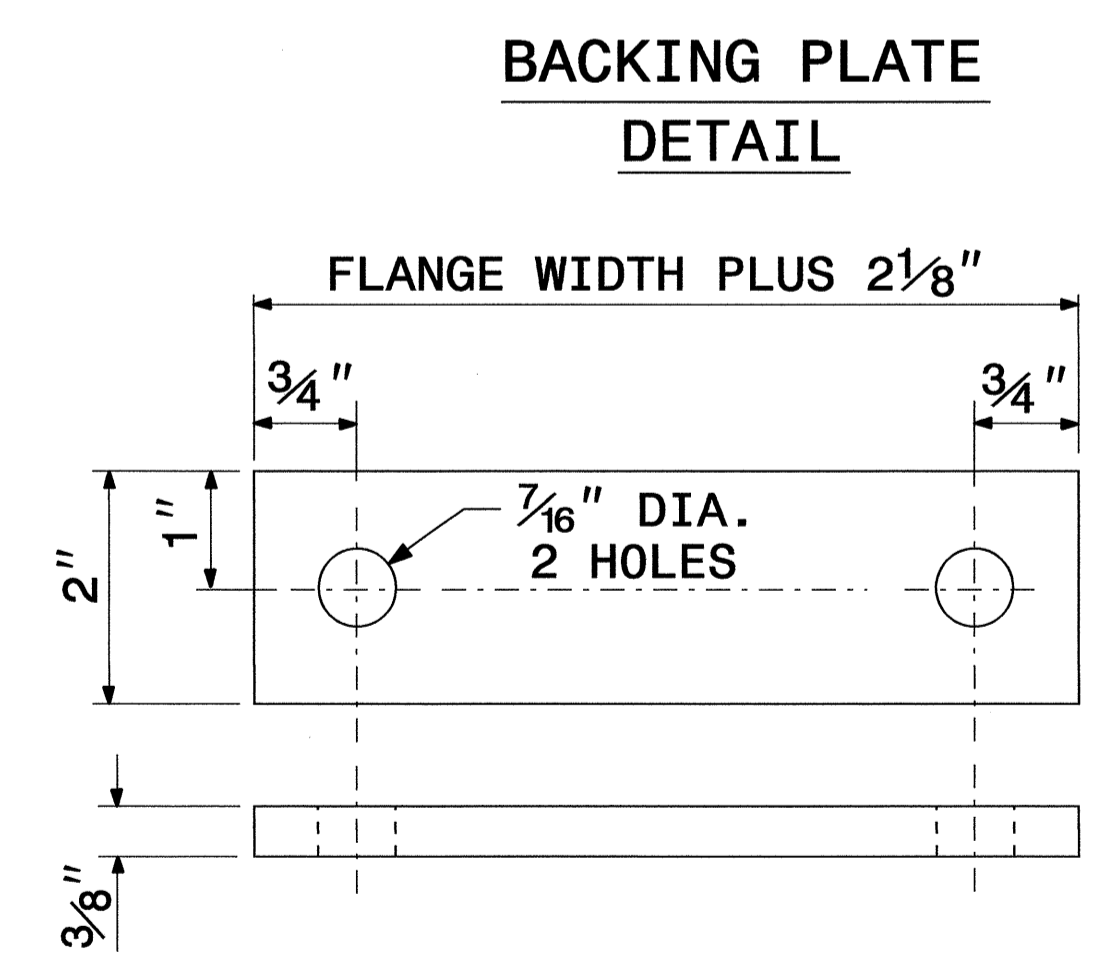
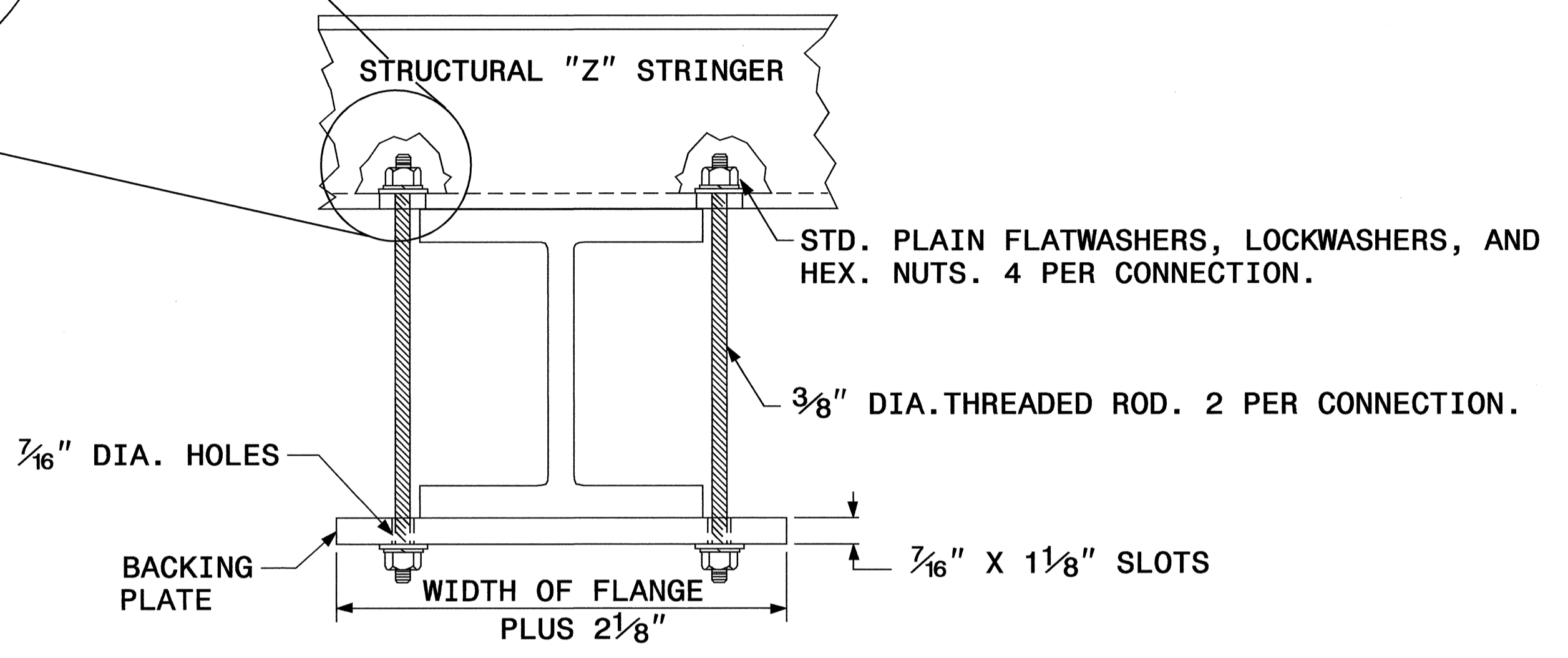
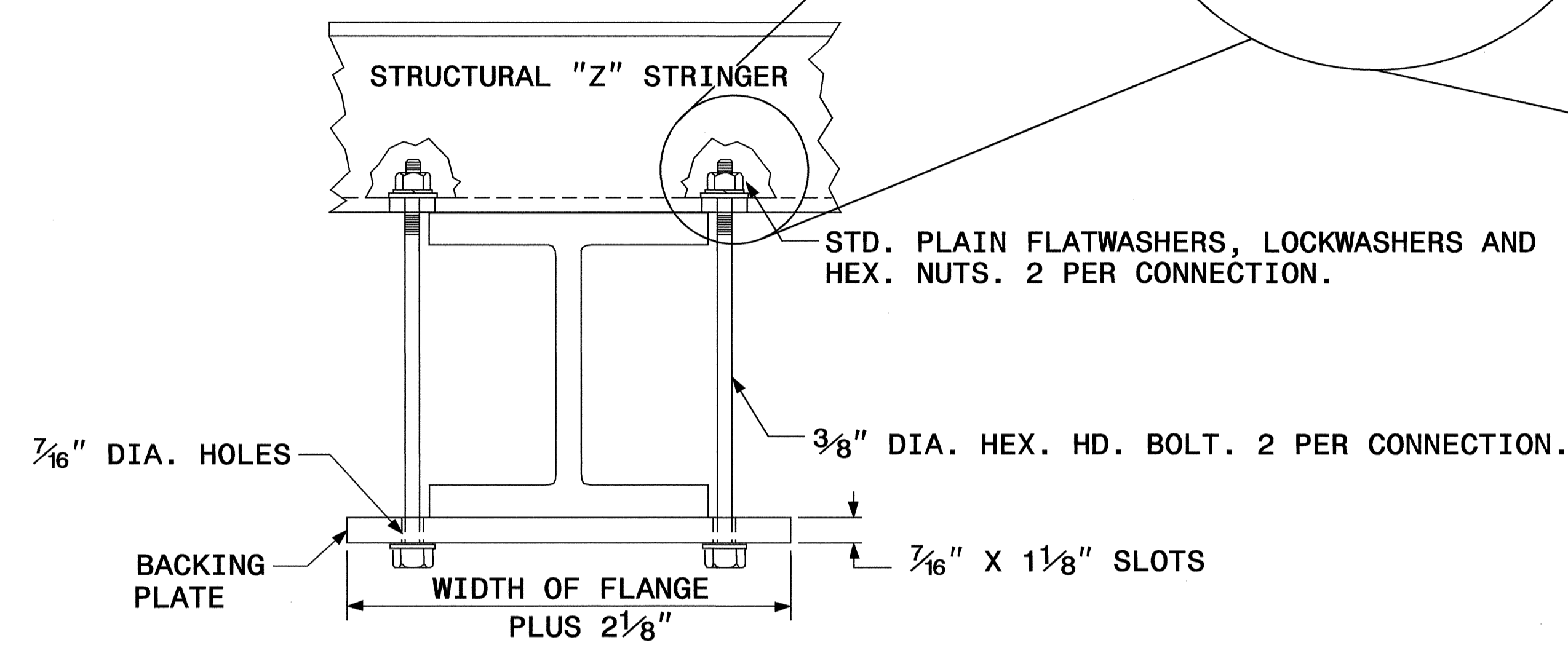
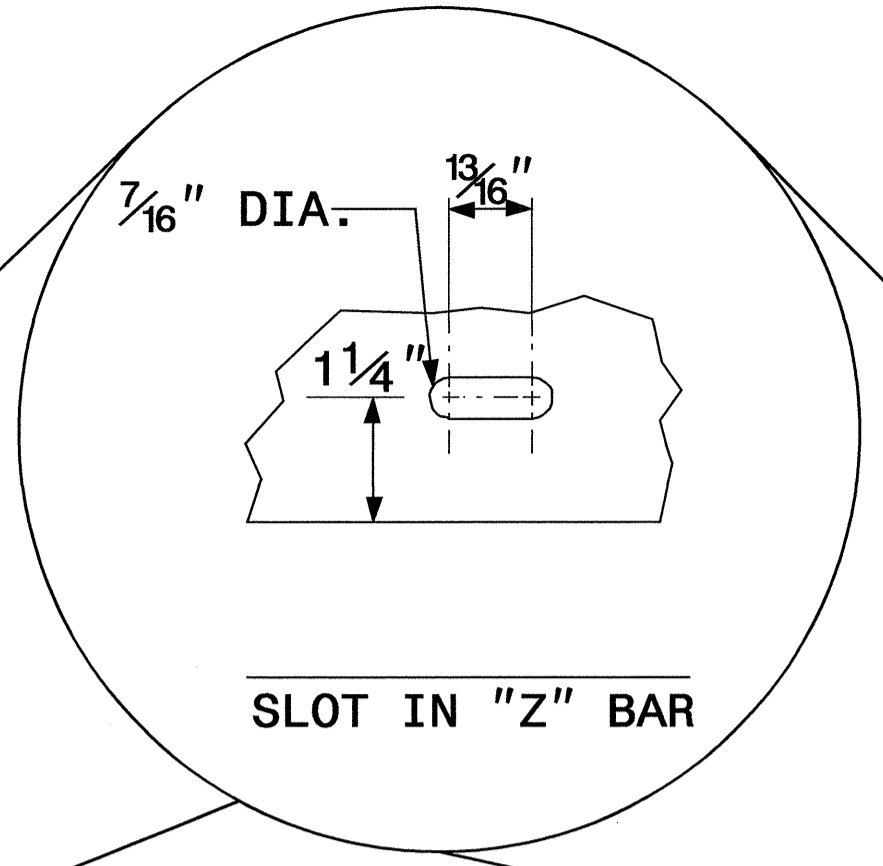
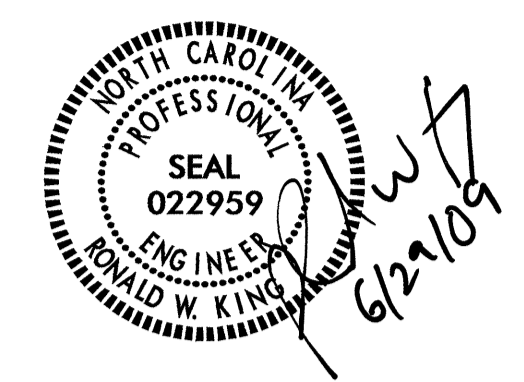
TOTAL	TOTAL	TOTAL
217.93	0.00	0.20
USE:	218	0 1

NOTES

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
- PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.



TYPE "A" AND TYPE "B" SIGN INFORMATION SHEET



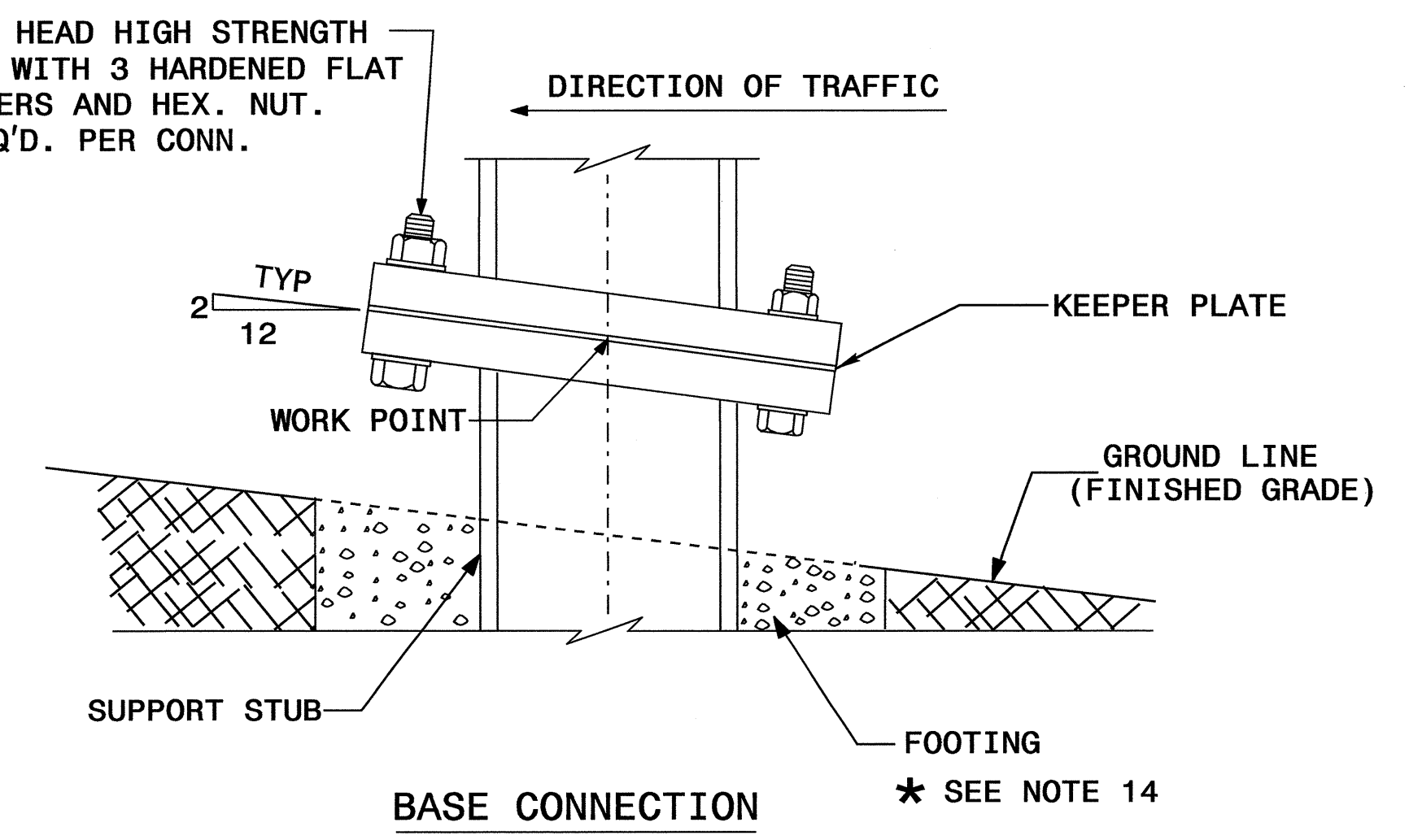
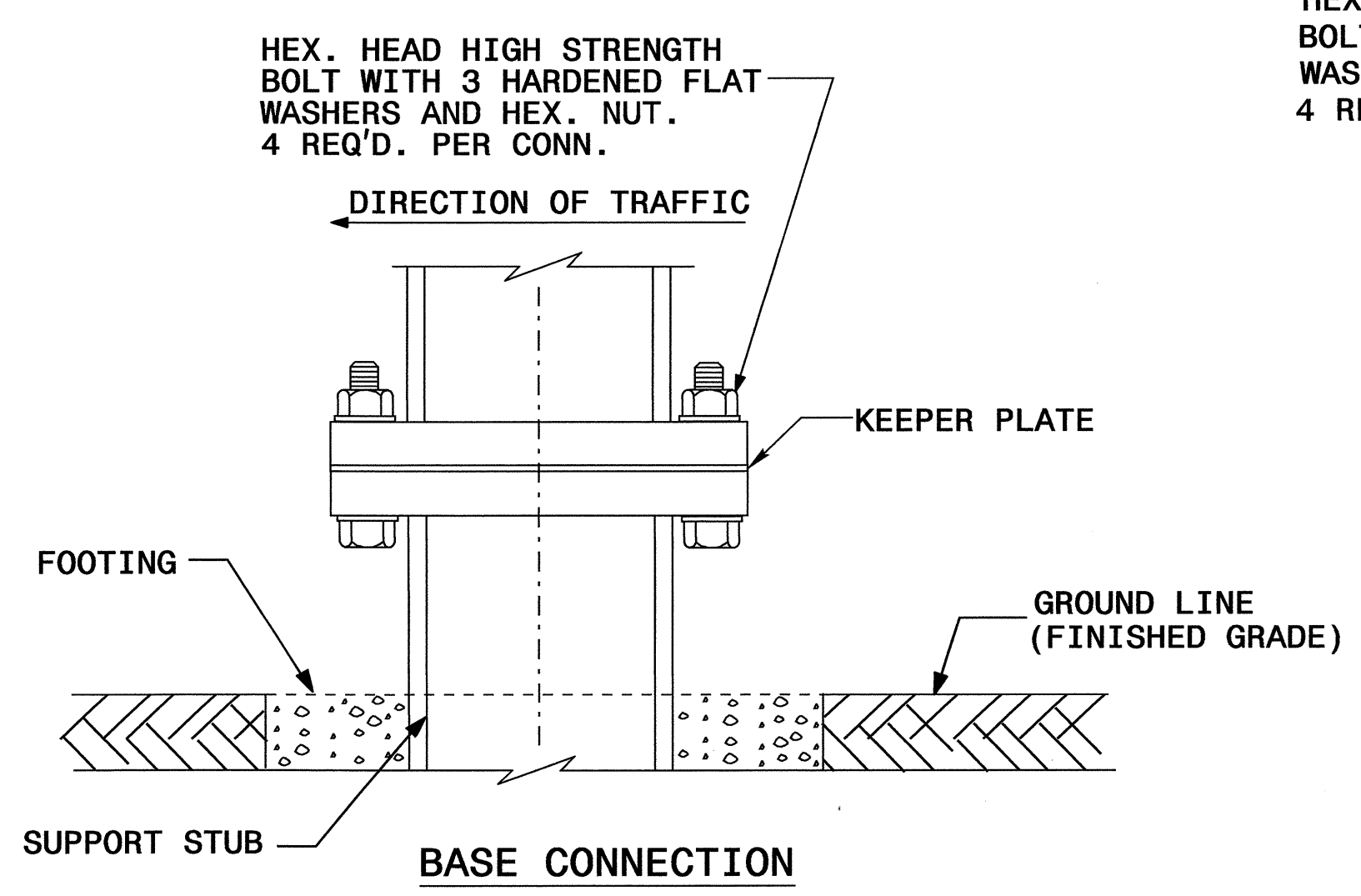
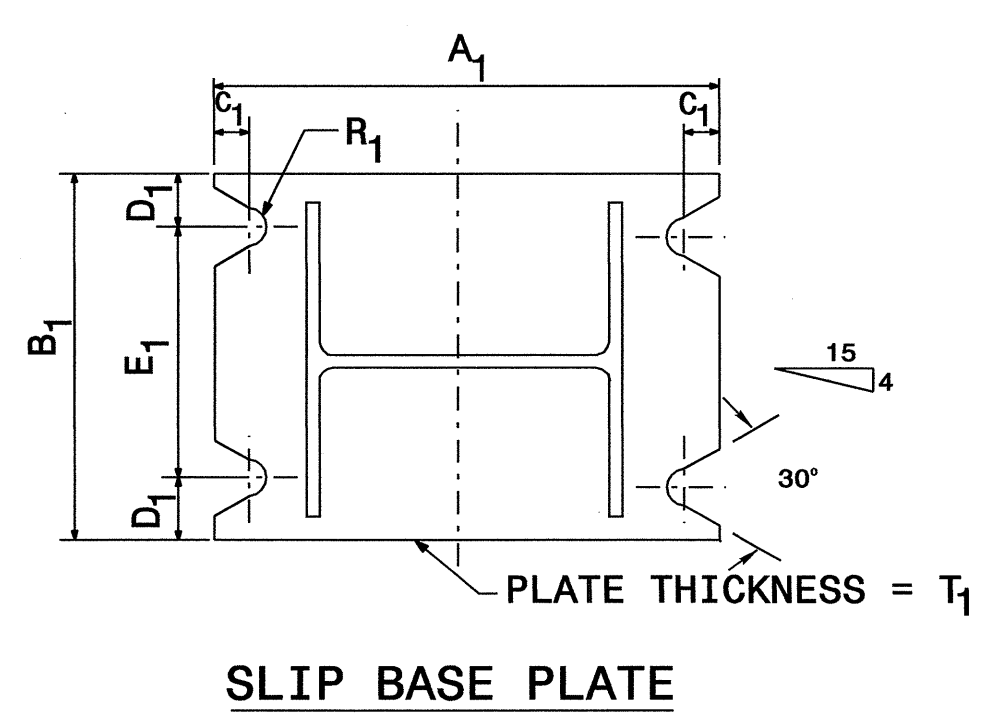
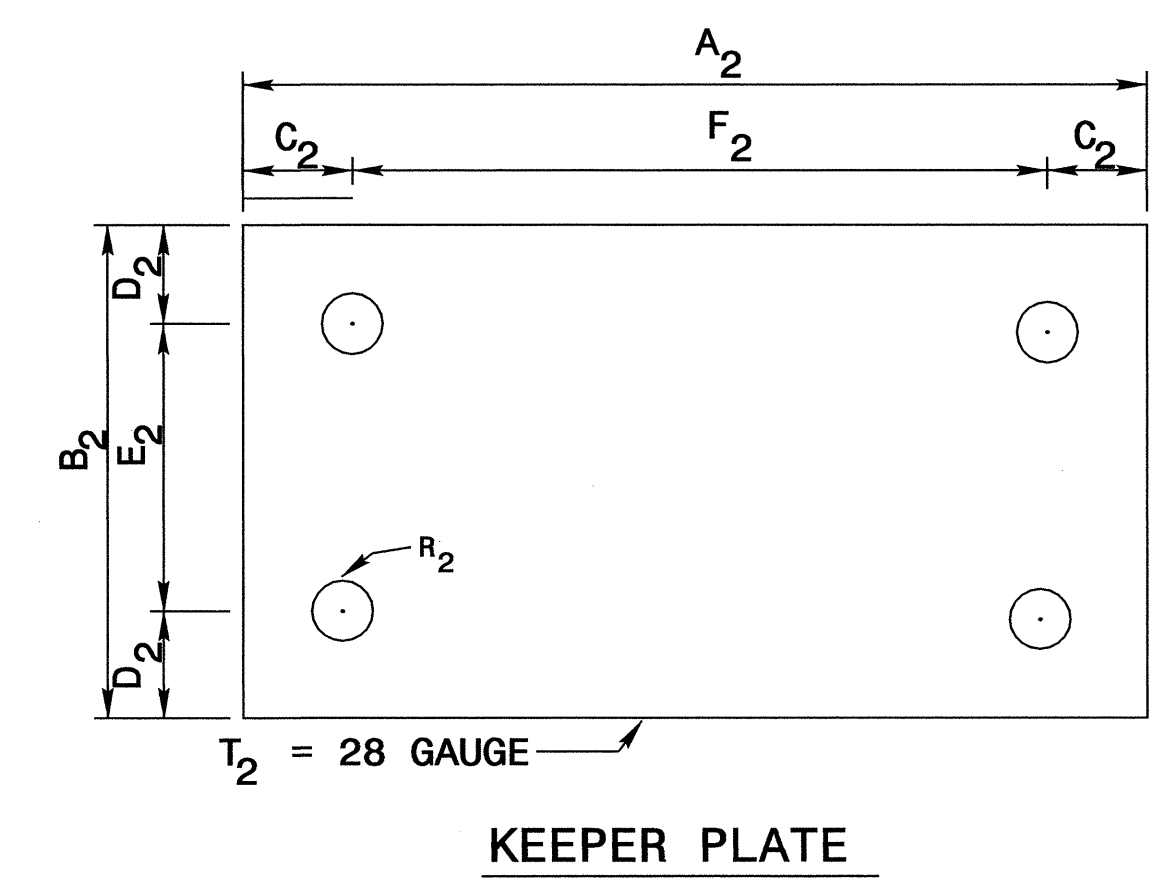
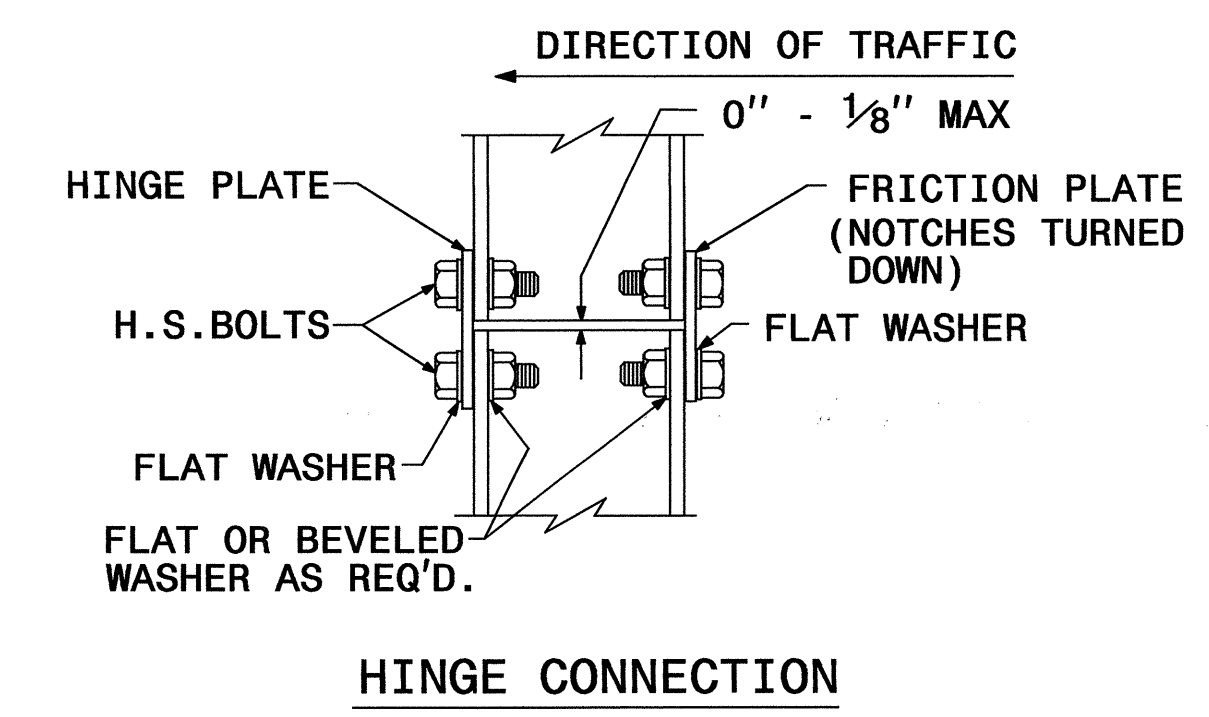
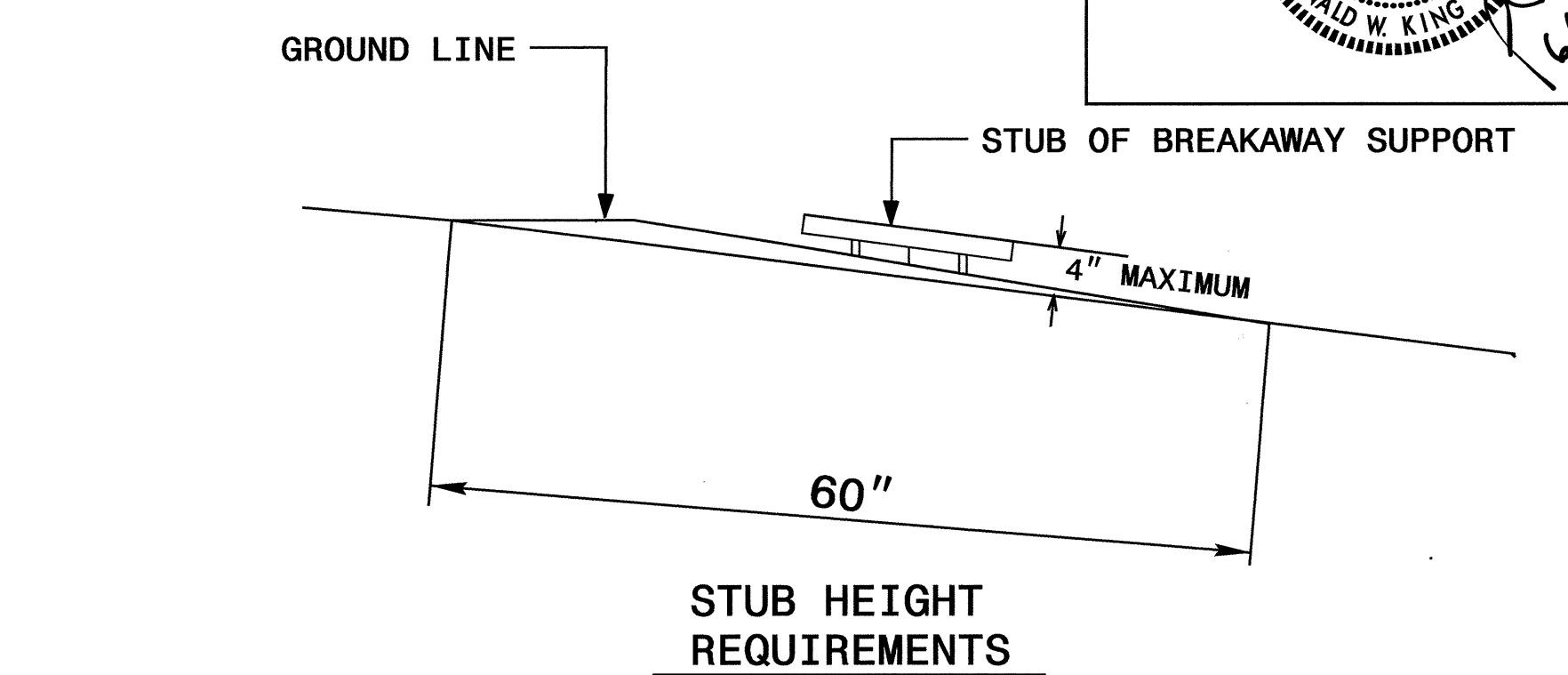
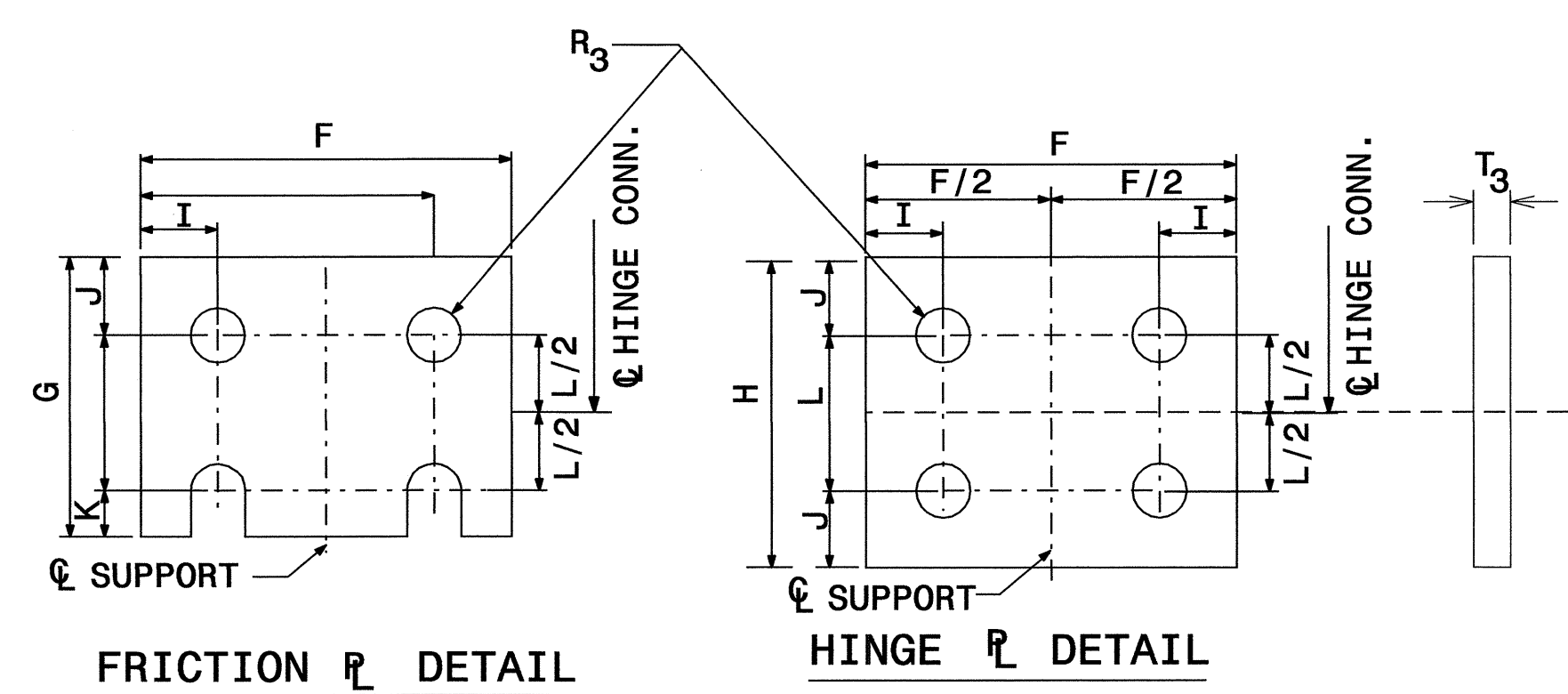
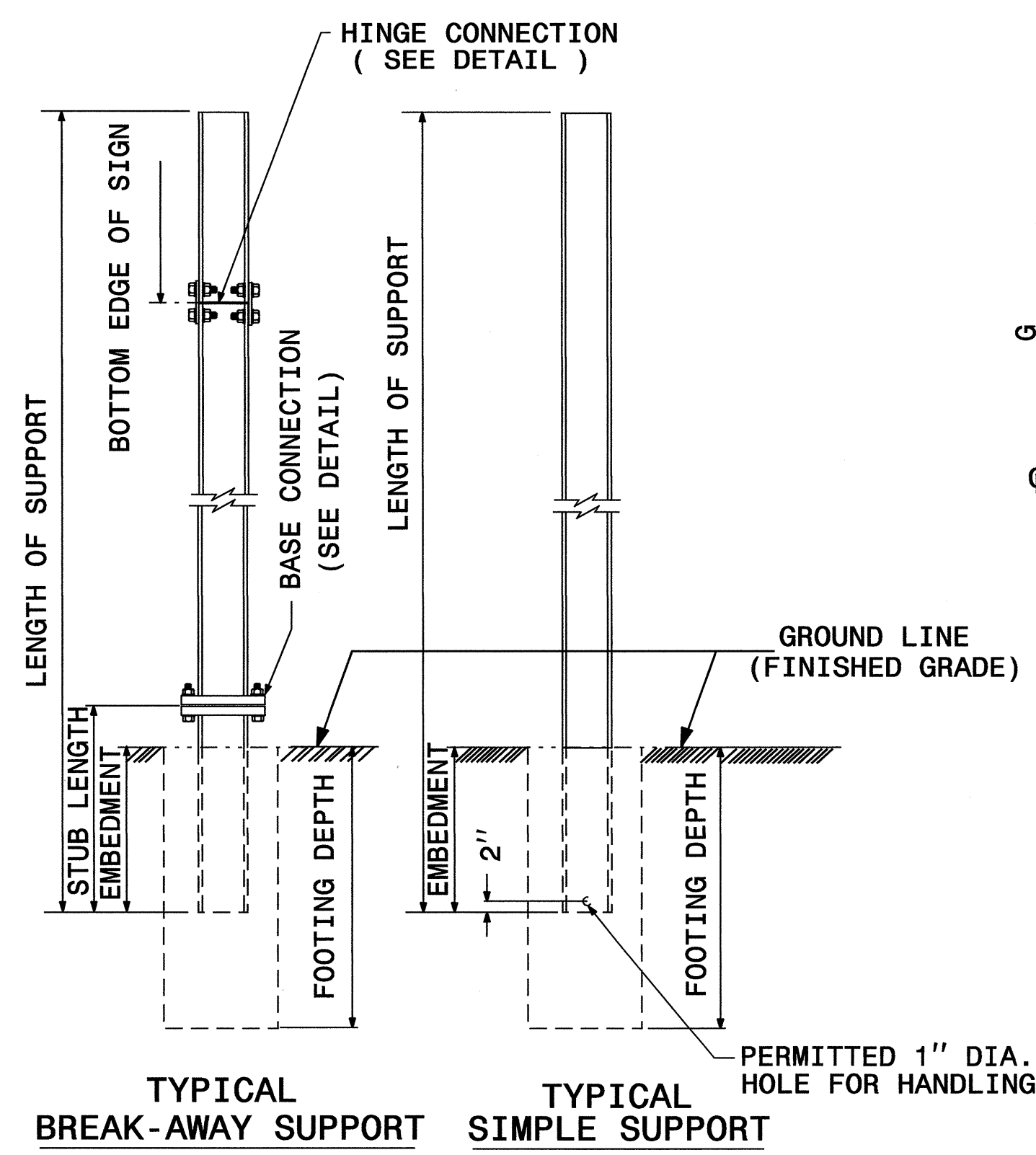
SIGN SUPPORTS SECTION DIMENSIONS

SECTION	A	B
S3 X 5.7	3"	2 3/8"
S4 X 7.7	4"	2 5/8"
W6 X 9	6"	4"
W6 X 12	6"	4"
W6 X 16	6 1/4"	4"
W8 X 18	8 1/8"	5 1/4"
W8 X 21	8 1/4"	5 1/4"
W10 X 22	10 1/8"	5 3/4"
W10 X 26	10 3/8"	5 3/4"
W12 X 26	12 1/4"	6 1/2"
W14 X 30	13 7/8"	6 3/4"
W16 X 31	15 7/8"	5 1/2"
W18 X 35	17 3/4"	6"
W18 X 40	17 7/8"	6"
W21 X 44	20 5/8"	6 1/2"

1. THE SUPPORT MOUNTING DETAIL SHOWS A "W" OR "S" BEAM. THIS DETAIL IS ALSO USED FOR MOUNTING SIGNS TO WOOD OR SQUARE TUBE SUPPORTS.
2. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS IN ACCORDANCE WITH ASTM A123.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR TYPE OF MATERIAL TO BE USED FOR SIGN HANGER ASSEMBLIES AND SUPPORTS.
4. USE GALVANIZED STEEL FOR MOUNTING BOLTS AND THREADED RODS IN COMPLIANCE WITH ASTM A307 AND ASTM A153.

SIGN MOUNTING DETAILS

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GROUND MOUNTED SIGN SUPPORT

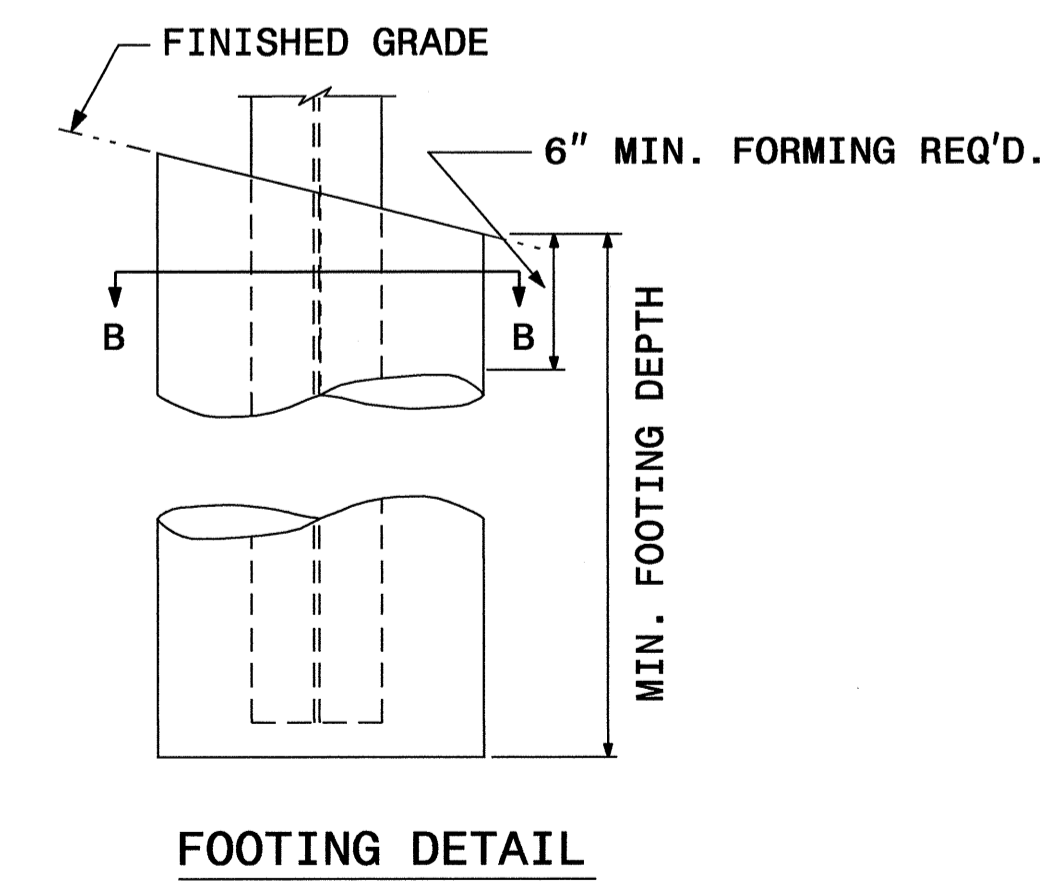
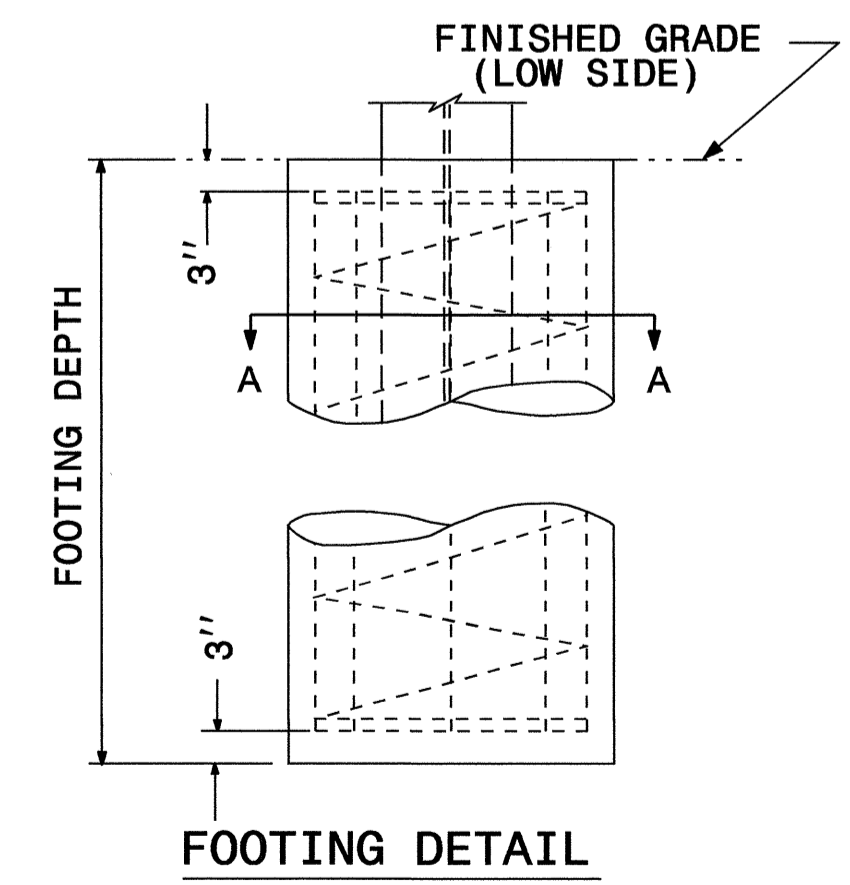
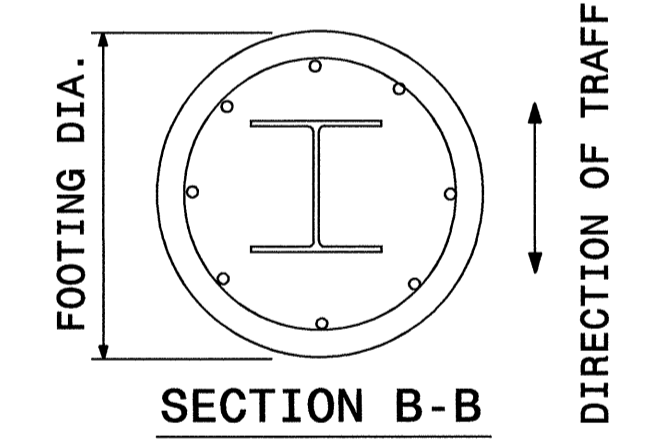
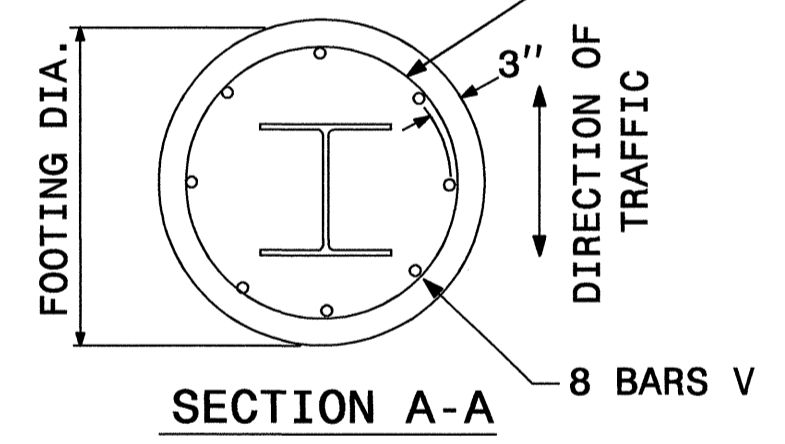
SEE SHEET SIGN-2D FOR DIMENSIONS.
SEE SHEET SIGN-2E FOR NOTES.

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TIP NO. U-3309A	SHEET NO. SIGN-2C
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BEAM SHAPE	SLIP BASE PLATE DATA								KEEPER PLATE DATA							HINGE CONNECTION DATA							BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.			
	BOLT SIZE	A ₁	B ₁	C ₁	D ₁	E ₁	T ₁	R ₁	A ₂	B ₂	C ₂	D ₂	E ₂	R ₂	T ₂	BOLT SIZE	F	G	H	I	J	K		L	R ₃	T ₃
S3X5.7	1/2"DIA. X 3"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 1/4"	3 1/2"	4"	1 1/2"	1"	1 1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2"DIA. X 3"	8"	4"	1"	3/4"	2 1/2"	1"	9/32"	8"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 5/8"	3 1/2"	4"	1 1/2"	1"	1 1/2"	2"	9/32"	3/8"	20
W6X9	1/2"DIA. X 3"	10"	5"	1"	3/4"	3 1/2"	1"	9/32"	10"	5"	1"	3/4"	3 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	4"	3 1/2"	4"	3/4"	1"	1 1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA. X 3 3/4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	11/32"	11"	5"	1 1/4"	7/8"	3 1/4"	11/32"	28 GAUGE	5/8"DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	3/8"	39
W6X16	5/8"DIA. X 3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	11/32"	12"	6"	1 1/4"	7/8"	4 1/4"	11/32"	28 GAUGE	5/8"DIA. X 2 1/2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	47
W8X18	5/8"DIA. X 4 1/4"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/2"	11/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	11/32"	28 GAUGE	5/8"DIA. X 2 1/2"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	70
W8X21	3/4"DIA. X 4 1/4"	14"	7"	1 1/2"	1"	5"	1 1/2"	13/32"	14"	7"	1 1/2"	1"	5"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	73
W10X22	3/4"DIA. X 4 1/4"	16"	8"	1 1/2"	1"	6"	1 1/2"	13/32"	16"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	119
W10X26	3/4"DIA. X 4 3/4"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	13/32"	16 1/2"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	140
W12X26	3/4"DIA. X 4 3/4"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	13/32"	18 1/2"	9"	1 1/2"	1"	7"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	176
W14X30	1"DIA. X 5"	22"	9"	2"	1 1/2"	6"	2"	17/32"	22"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	17/32"	5/8"	205
W16X31	1"DIA. X 5"	24"	9"	2"	1 1/2"	6"	2"	17/32"	24"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 1/4"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	223
W18X35	1"DIA. X 5"	25"	9"	2"	1 1/2"	6"	2"	17/32"	25"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	243
W18X40	1"DIA. X 5 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	17/32"	26"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	278
W21X44	1"DIA. X 5 1/2"	29"	9"	2"	1 1/2"	6"	2 1/2"	17/32"	29"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	310

2" FLAT TURNS
TOP AND BOTTOM
(SEE NOTE 10)



FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
1' 6"	8 # 6 BARS	#3 BAR, 3" PITCH
2'	8 # 7 BARS	#3 BAR, 3" PITCH
2' 6"	8 # 9 BARS	#3 BAR, 3" PITCH
3'	8 # 11 BARS	#3 BAR, 3" PITCH
3' 6"	8 # 12 BARS	#3 BAR, 3" PITCH
4'	8 # 14 BARS	#3 BAR, 3" PITCH

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS
SEE SHEET SIGN-2E FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

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NOTES:

- DESIGN CONFORMS WITH THE SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS - A.A.S.H.T.O.
- USE MATERIALS, FABRICATE AND ERECT SIGNS AND SUPPORTS THAT CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- USE HIGH STRENGTH BOLTS, NUTS AND WASHERS THAT CONFORM TO A.S.T.M. A-325 AND THAT ARE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153.
- USE BACKING PLATES, SLIP BASE PLATES, FRICTION PLATES, AND HINGE PLATES THAT CONFORM TO A.S.T.M. A-36 AND THAT ARE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123 PRIOR TO GALVANIZING, GRIND SMOOTH ANY METAL PROJECTION BEYOND THE PLATE FACE. KEEPER PLATES SHALL BE MANUFACTURED FROM 28 GAUGE SHEET STEEL THAT CONFORMS TO A.S.T.M. A-36 AND IS GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123
- ASSEMBLE HINGE CONNECTIONS IN THE SHOP. SHOP TIGHTEN BOLTS BY USE OF EITHER A CALIBRATED POWER WRENCH OR A MANUAL TORQUE WRENCH. TIGHTEN EACH HINGE CONNECTION BOLT TO 1/3 PAST SNUG.
- BASE PLATES DETAILS ARE FOR INSTALLATIONS ON THE RIGHT SHOULDER AND IN GORE AREAS.
- ASSEMBLE UPPER SUPPORT TO STUB AS SHOWN IN DETAIL. SLIP BASE PLATES SHALL BE FILLET WELDED ONTO POSTS ALL AROUND THE STRUCTURAL SHAPE SO AS TO INSURE NO LOSS OF STRENGTH. ASSEMBLE IN EITHER SHOP OR FIELD. 28 GAUGE KEEPER PLATE IS PLACED BETWEEN SLIP BASE PLATES TO PREVENT BOLT SLIPPING. TIGHTEN BOLTS TO THE FOLLOWING PRESCRIBED TORQUE:

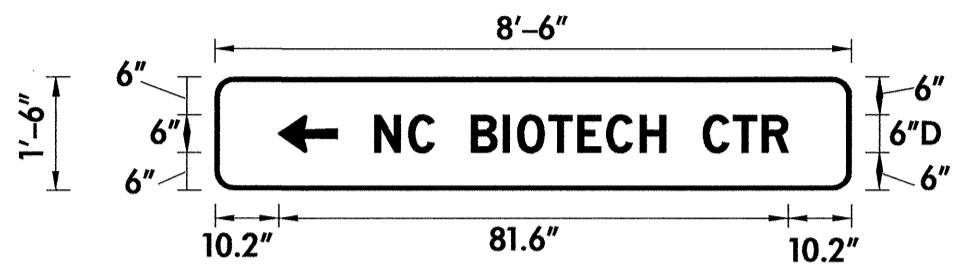
BOLT DIAMETER	TORQUE (LB. FT.)
1/2"	9
5/8"	22
3/4"	37
1"	48

COMPLETELY ASSEMBLE B/A POSTS PRIOR TO ERECTION. B/A POST TO BE SET IN ONE PIECE. AFTER SUPPORT HAS BEEN ERECTED AND THE CONCRETE FOOTINGS HAS CURED AT LEAST 48 HRS., CLEAN CONCRETE FROM BASE CONNECTION BOLTS THEN LOOSEN AND RETIGHTEN EACH BOLT IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. BURR ALL BOLT THREADS OF BASE CONNECTIONS TO PREVENT LOOSENING. DO NOT OVERTIGHTEN.

- USE REINFORCED FOOTINGS WITH DIMENSIONS AS SHOWN IN PLANS. WHERE SOLID ROCK IS ENCOUNTERED, THE ENGINEER DIRECTS WHETHER TO PLACE THE FOOTING AT THE PRESCRIBED DEPTH OR EXTEND IT AT LEAST TWO FEET INTO THE ROCK. CONSTRUCT ALL FOOTINGS OF CLASS A CONCRETE.
- FORM TOP 6" OF FOOTINGS. ENGINEER APPROVES THE METHOD USED.
- THE FINAL FLAT TURN OF SPIRAL OR HOOPS NO. 3 OR LARGER PLACED 3" FROM TOP AND BOTTOM OF FOOTING MAY BE WELDED TO VERTICAL REINFORCING BARS. NO OTHER WELDING WILL BE PERMITTED.
- ELIMINATE HINGE CONNECTION FOR ALL SINGLE SUPPORT SIGNS.
- DETAIL IS FOR ONE DIRECTION BREAKAWAY. WHEN PLANS REQUIRE A TWO DIRECTION BREAKAWAY, TWO FRICTION PLATES SHALL BE USED IN LIEU OF ONE FRICTION PLATE AND ONE HINGE PLATE.
- SHAPE THE TOPS OF THE FOOTINGS TO CONFORM WITH FINISHED GROUND ELEVATIONS SUCH THAT WATER WILL NOT COLLECT AGAINST THE SUPPORTS.
- IF THE GROUNDWATER IS ENCOUNTERED AT AN DEPTH SHALLOWER THAN 7 FEET, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

GROUND MOUNTED SIGN SUPPORT

<p>SIGN NUMBER: 301 TYPE: D QUANTITY: 1 SIGN WIDTH: 8'-6" HEIGHT: 1'-6" TOTAL AREA: 12.8 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr> <td>ARMED</td> <td>10.2</td> <td>6</td> <td>6</td> <td>9.5</td> </tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	ARMED	10.2	6	6	9.5	<p>DESIGN BY: D PILLAR PROJECT ID: U-3309A</p> <p>CHECKED BY: D.M. EATON DIV: 5</p> <p>DATE: Jul 31, 2008</p>
SYMBOL	X	Y	WID	HT								
ARMED	10.2	6	6	9.5								



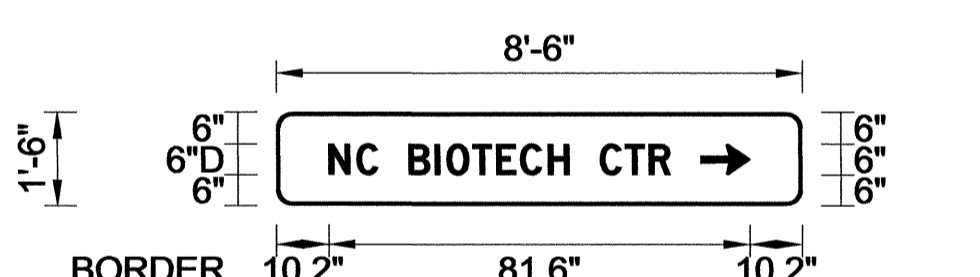
USE NOTES: 1,2

- Legend and border shall be direct applied C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A, B, or C sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size Text Length			
N	C	B	I	O	T	E	C	H	C	T	R		D 2000			
25.6	5.4	4.1	6	5.1	2.3	5	4.6	4.6	5.4	4.1	6	4.9	4.6	4.1	10.2	66.2

<p>SIGN NUMBER: 302 TYPE: D QUANTITY: 1 SIGN WIDTH: 8'-6" HEIGHT: 1'-6" TOTAL AREA: 12.8 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr> <td>ARMED</td> <td>82.4</td> <td>6</td> <td>6</td> <td>9.5</td> </tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	ARMED	82.4	6	6	9.5	<p>DESIGN BY: D PILLAR PROJECT ID: U-3309A</p> <p>CHECKED BY: D.M. EATON DIV: 5</p> <p>DATE: Jul 31, 2008</p>
SYMBOL	X	Y	WID	HT								
ARMED	82.4	6	6	9.5								



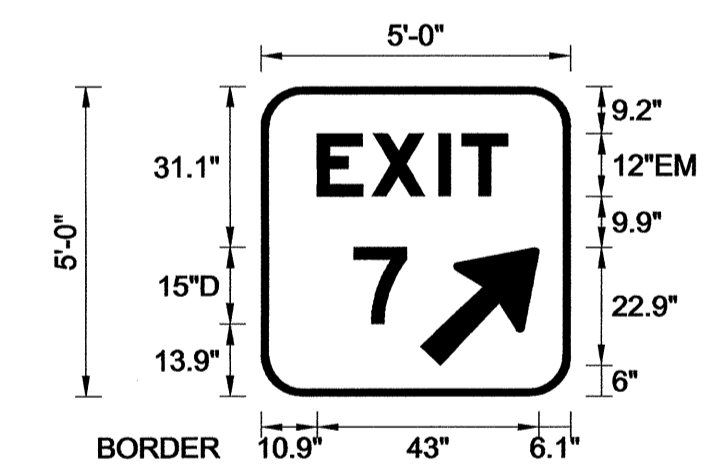
USE NOTES: 1,2

- Legend and border shall be direct applied C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A, B, or C sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size Text Length			
N	C	B	I	O	T	E	C	H	C	T	R		D 2000			
10.2	5.4	4.1	6	5.1	2.3	5	4.6	4.6	5.4	4.1	6	4.9	4.6	4.1	25.6	66.2

<p>SIGN NUMBER: 201 TYPE: A QUANTITY: 1 SIGN WIDTH: 5'-0" HEIGHT: 5'-0" TOTAL AREA: 25.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADIUS: 8"</p> <p>NO. Z BARS: 2 LENGTH: 52.0</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr> <td>ARMED</td> <td>31</td> <td>6</td> <td>18.7</td> <td>29.5</td> </tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	ARMED	31	6	18.7	29.5	<p>DESIGN BY: D PILLAR PROJECT ID: U-3309A</p> <p>CHECKED BY: D.M. EATON DIV: 5</p> <p>DATE: Jul 31, 2008</p>
SYMBOL	X	Y	WID	HT								
ARMED	31	6	18.7	29.5								



USE NOTES: 1,2


- Legend and border shall be direct applied C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A, B, or C sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

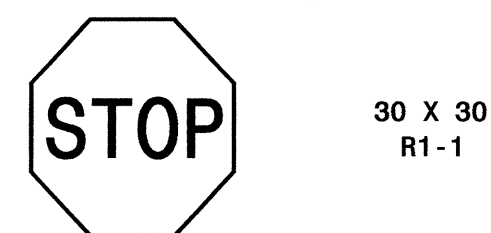
Letter spacings are to start of next letter						Series/Size Text Length
E	X	I	T			EM 2000
10.9	10.6	13	4.6	8.9	12.2	37
7						D 2000
18	10.2	31.8				10.2

TYPE A & D SIGN DESIGNS

APPROVED: _____
 DATE: _____
 SEAL



408 QUANTITY REQ'D 7



ONE "U" POST PER SIGN

414 QUANTITY REQ'D 14



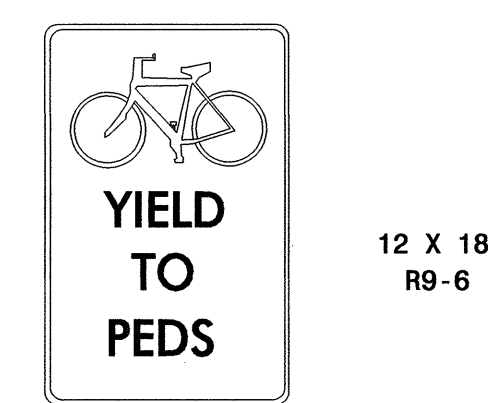
TWO "U" POST PER SIGN

455 QUANTITY REQ'D 5



ONE "U" POST PER SIGN

466 QUANTITY REQ'D 3



ONE "U" POST PER SIGN

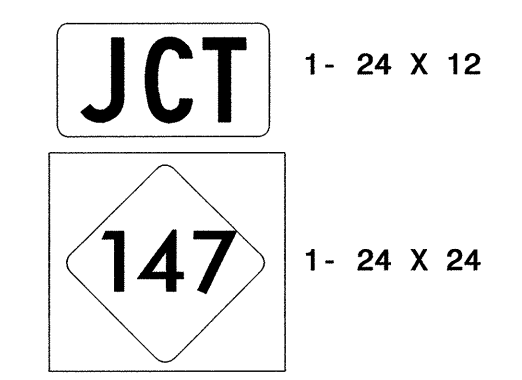
471 QUANTITY REQ'D 1



YELLOW/GREEN REFLECTIVE SHEETING

ONE "U" POST PER SIGN

501
505



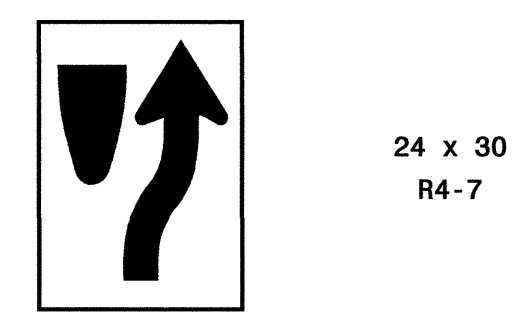
ONE "U" POST PER SIGN

410 QUANTITY REQ'D 23



ONE "U" POST PER SIGN

416 QUANTITY REQ'D 20



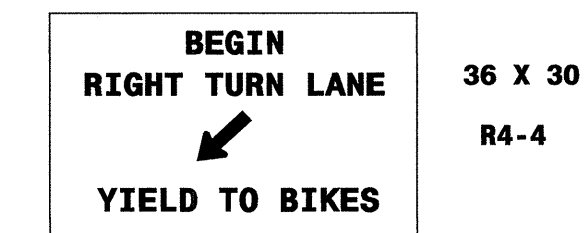
TWO "U" POSTS PER SIGN

460 QUANTITY REQ'D 1



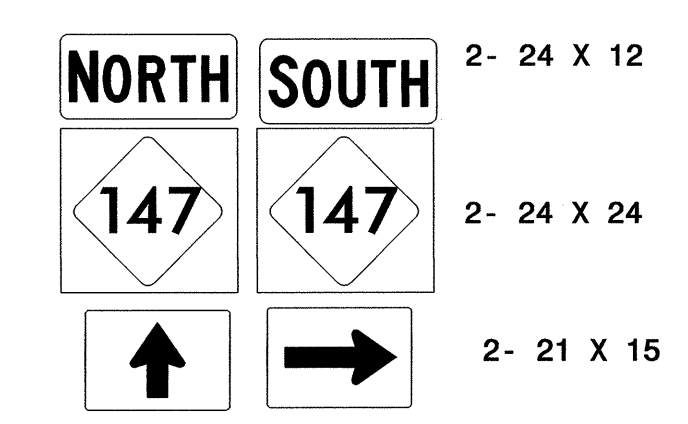
ONE "U" POST PER SIGN

467 QUANTITY REQ'D 9



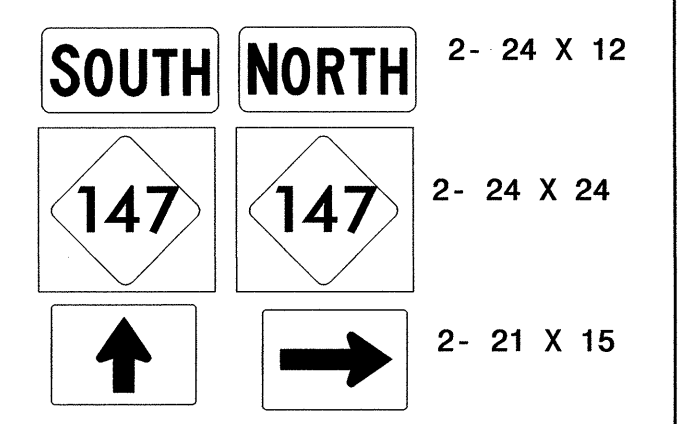
ONE "U" POST PER SIGN

502



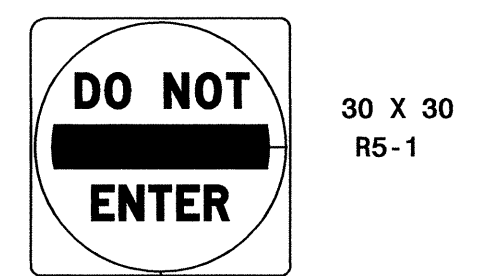
TWO "U" POSTS PER SIGN

506



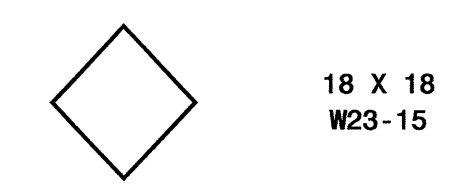
TWO "U" POSTS PER SIGN

411 QUANTITY REQ'D 13



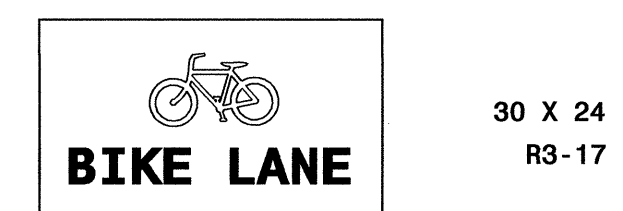
ONE "U" POST PER SIGN

417 QUANTITY REQ'D 20



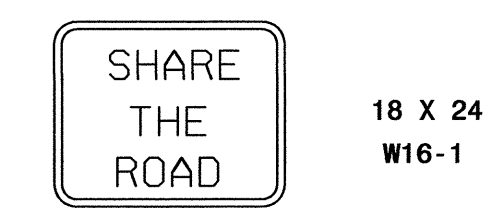
MOUNT BELOW SIGN #416
IN 20 INSTALLATIONS

462 QUANTITY REQ'D 12



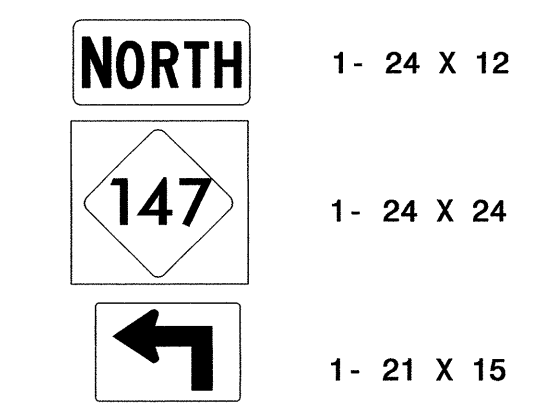
ONE "U" POST PER SIGN

468 QUANTITY REQ'D 2



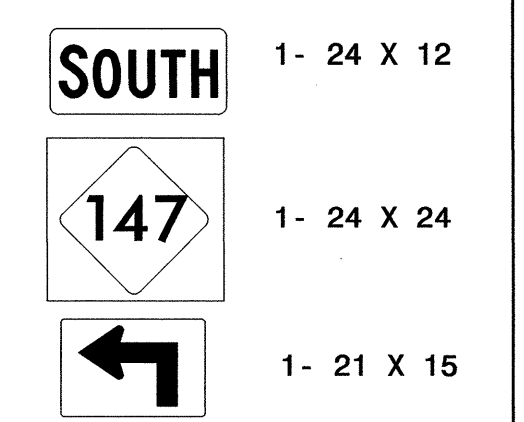
TO BE MOUNTED BELOW SIGN #465
IN 2 INSTALLATIONS

503



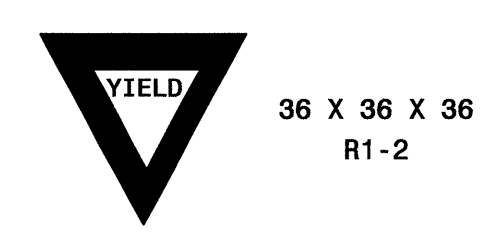
ONE "U" POST PER SIGN

507



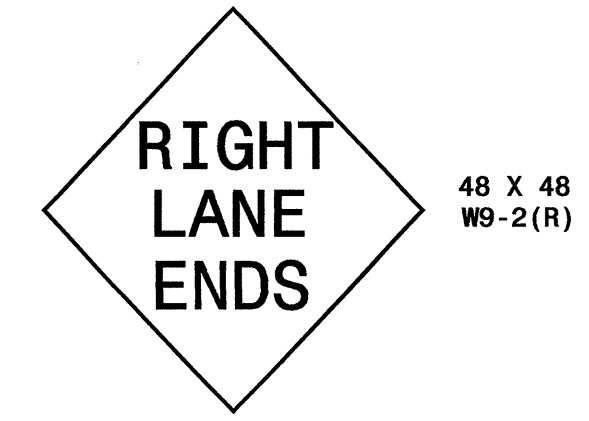
ONE "U" POST PER SIGN

412 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

433 QUANTITY REQ'D 1



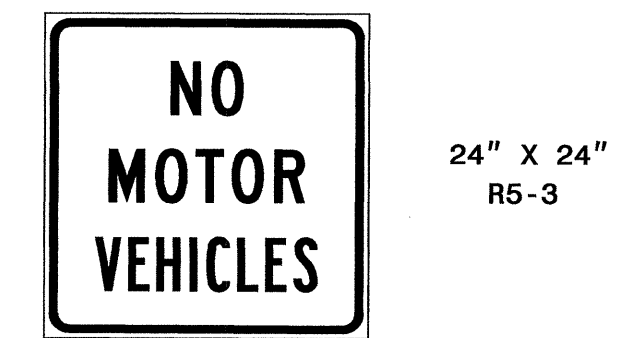
TWO "U" POSTS PER SIGN

464 QUANTITY REQ'D 2



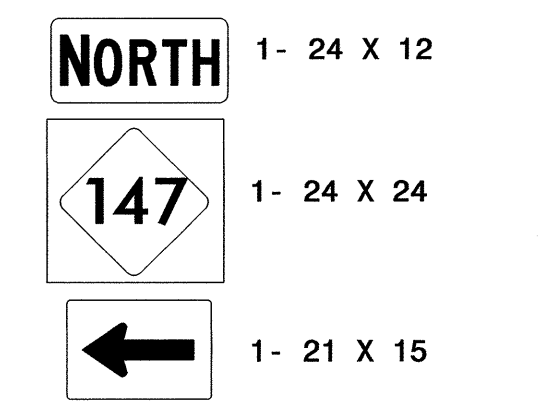
TYPE IX FLUORESCENT YELLOW GREEN SHEETING
TO BE MOUNTED BELOW SIGN #462
IN 2 INSTALLATIONS

469 QUANTITY REQ'D 5



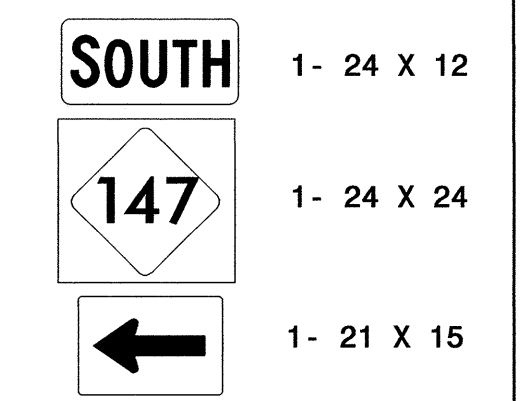
ONE "U" POST PER SIGN

504



ONE "U" POST PER SIGN

508



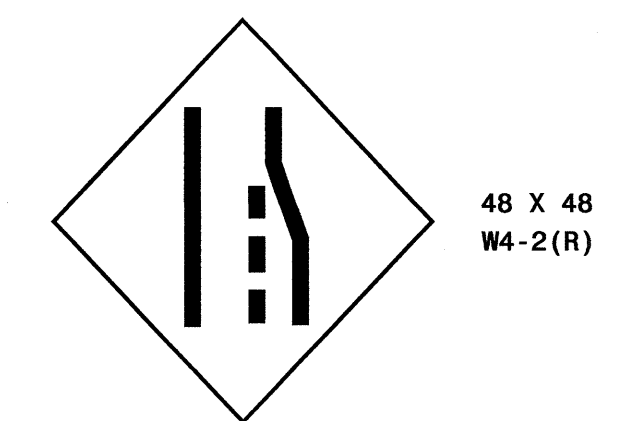
ONE "U" POST PER SIGN

413 QUANTITY REQ'D 10



TWO "U" POST PER SIGN

435 QUANTITY REQ'D 1



TWO "U" POSTS PER SIGN

465 QUANTITY REQ'D 3



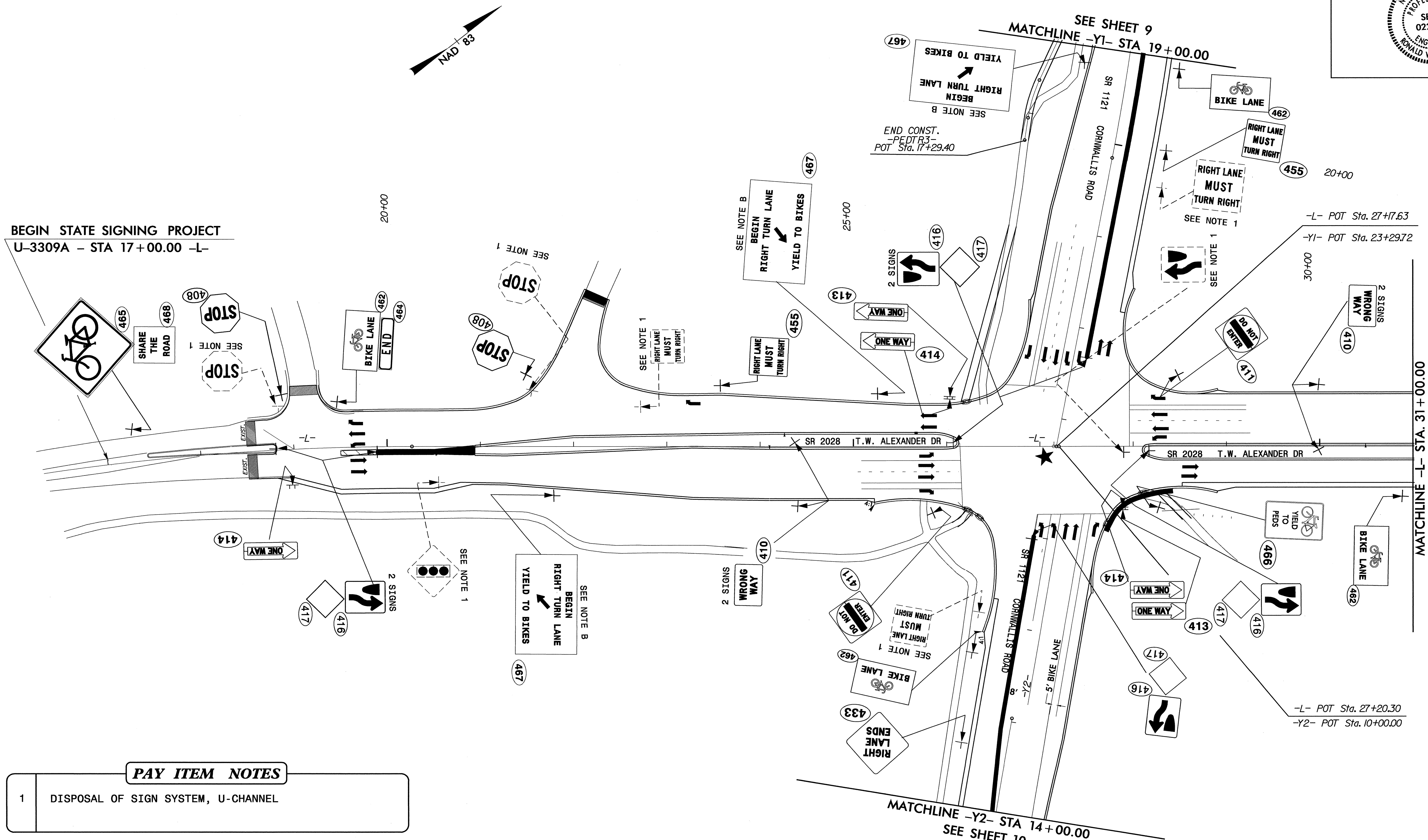
TYPE IX FLUORESCENT YELLOW GREEN SHEETING
ONE "U" POST PER SIGN

470 QUANTITY REQ'D 1



TYPE IX FLUORESCENT YELLOW GREEN SHEETING
TO BE MOUNTED BELOW SIGN #462
IN 1 INSTALLATIONS

TYPE "E" & "F" SIGNS

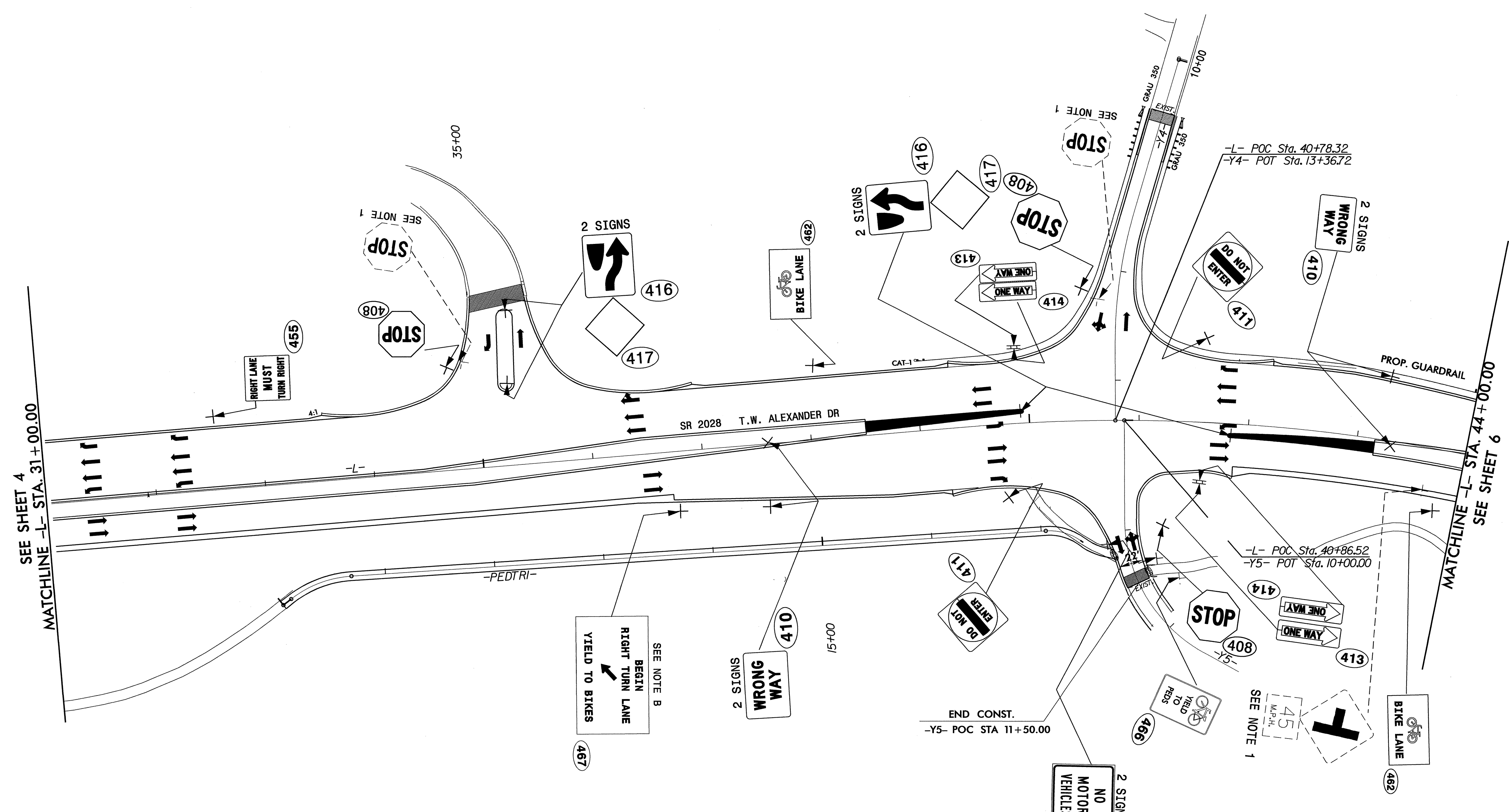


PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL

PROJECT NOTES	
B	COORDINATE SIGN PLACEMENT WITH PAVEMENT MARKINGS

PROPOSED & EXISTING SIGNS
 STA. 17+00 -L- TO STA. 31+00 -L-
 SR 2028(T.W. ALEXANDER DRIVE)

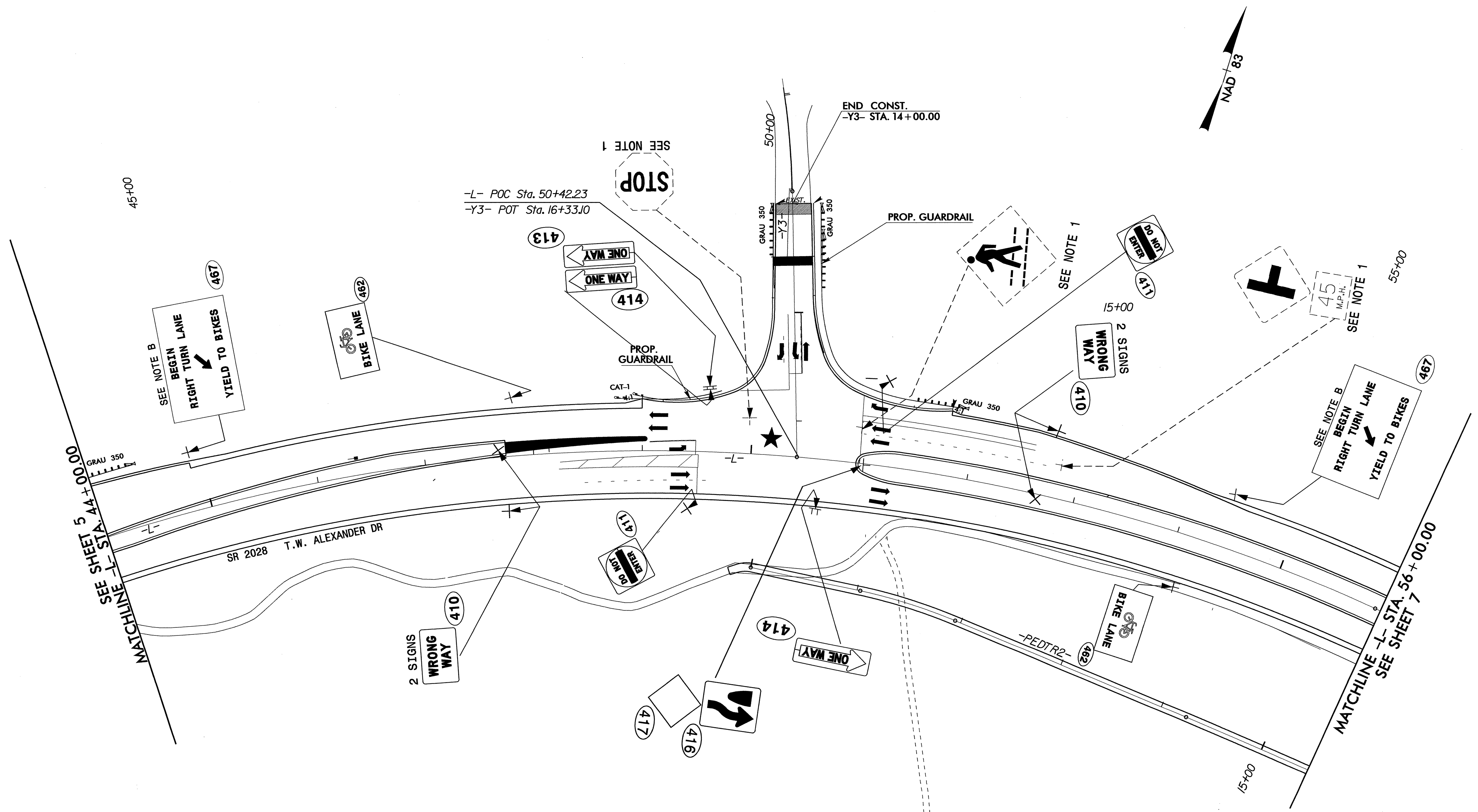
29-JUN-2009 12:35
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 sjohns AT FCC221842



PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL

PROJECT NOTES	
B	COORDINATE SIGN PLACEMENT WITH PAVEMENT MARKINGS

PROPOSED & EXISTING SIGNS
 STA. 31+00 -L- TO STA. 44+00 -L-
 SR 2028(T.W. ALEXANDER DRIVE)



PAY ITEM NOTES

1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
---	------------------------------------

PROJECT NOTES

B	COORDINATE SIGN PLACEMENT WITH PAVEMENT MARKINGS
---	--

**PROPOSED & EXISTING SIGNS
STA. 44+00 -L- TO STA. 56+00 -L-
SR 2028(T.W. ALEXANDER DRIVE)**

APPROVED: _____
DATE: _____

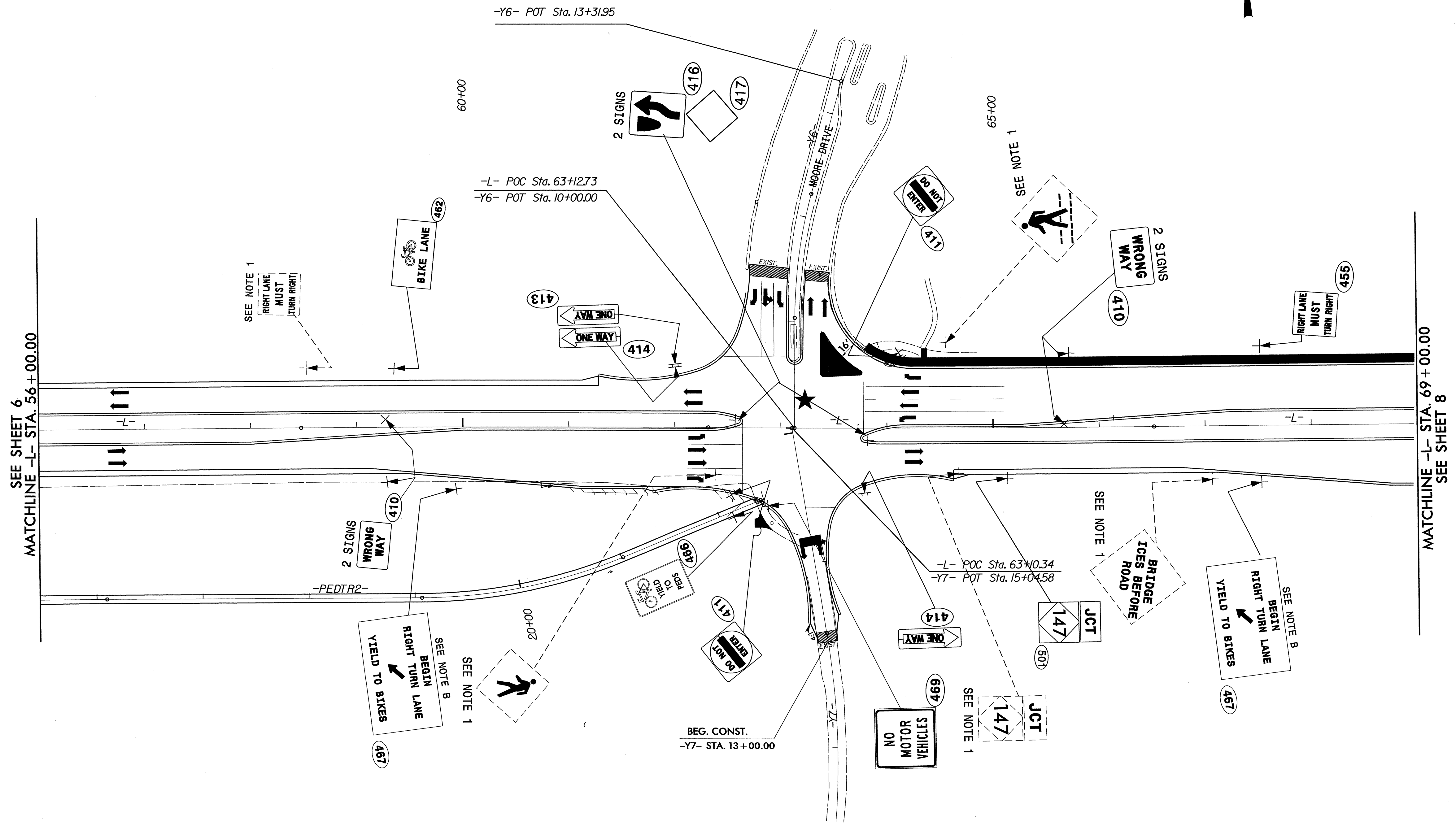


PAY ITEM NOTES

1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

PROJECT NOTES

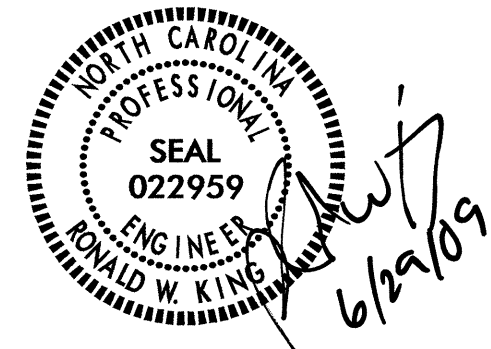
B COORDINATE SIGN PLACEMENT WITH PAVEMENT MARKINGS



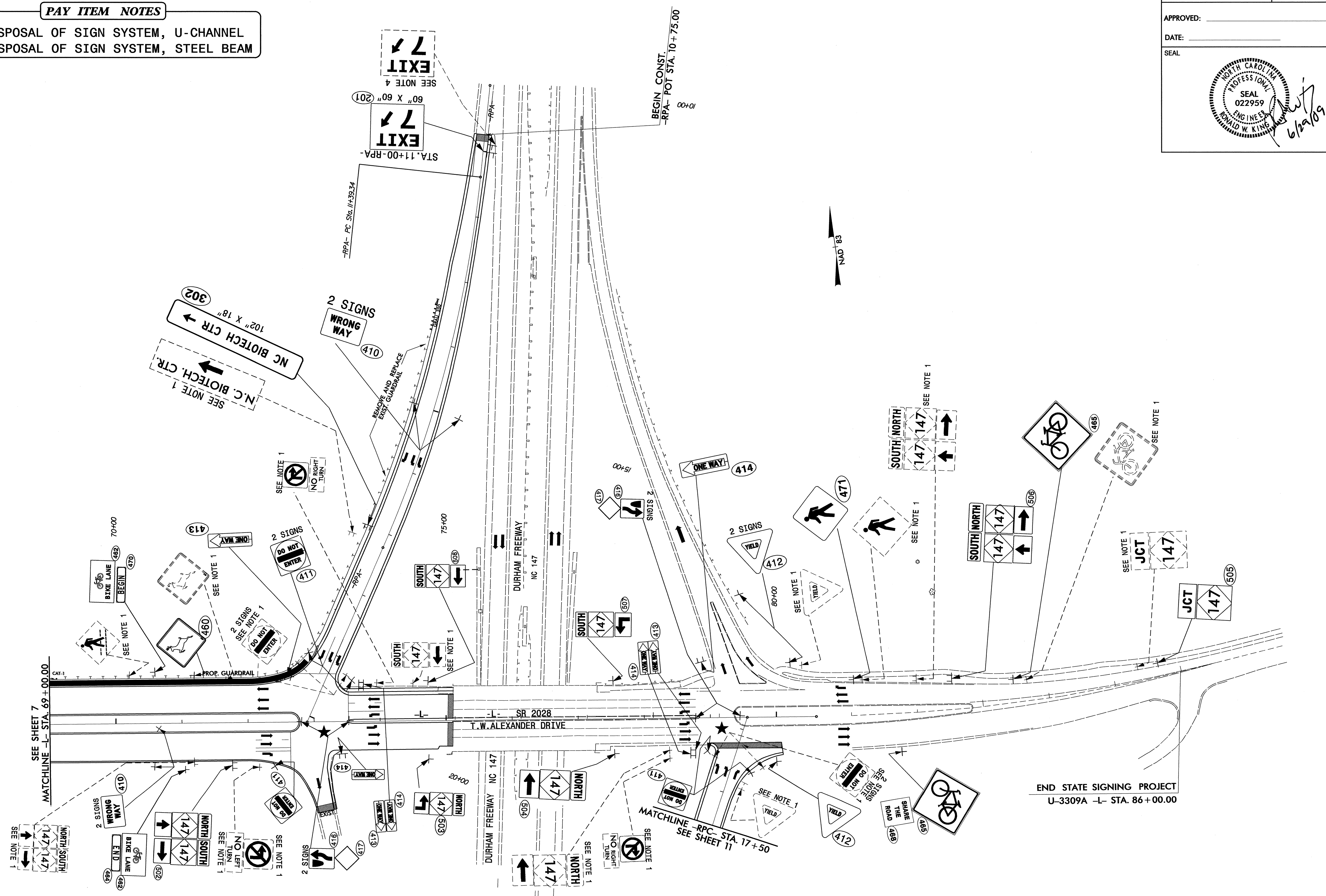
SEE SHEET 6
MATCHLINE -L- STA. 56+00.00

MATCHLINE -L- STA. 69+00.00
SEE SHEET 8

PROPOSED & EXISTING SIGNS
STA. 56+00 -L- TO STA. 69+00 -L-
SR 2028(T.W. ALEXANDER DRIVE)



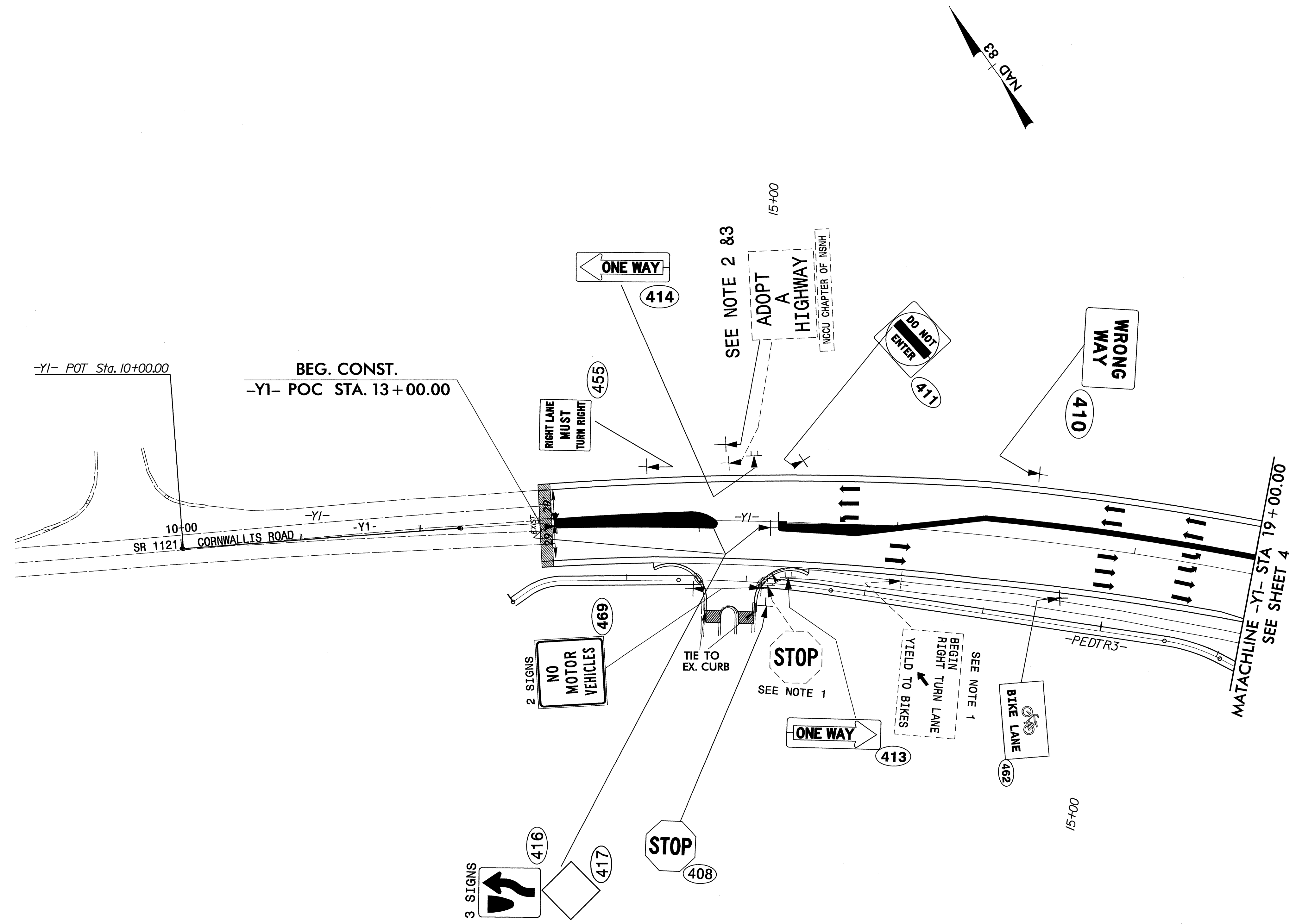
PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
4	DISPOSAL OF SIGN SYSTEM, STEEL BEAM



END STATE SIGNING PROJECT
U-3309A -L- STA. 86+00.00

PROPOSED & EXISTING SIGNS
STA. 69+00 -L- TO STA. 86+00 -L-
SR 2028 (T.W. ALEXANDER DRIVE)

29-JUN-2009 12:38
 P:\TIP\Projects\U3309A\Traffic\Signing\CADD\Signing Layout Plans\SIGNING\U3309A_rdy_psh08.dgn
 s.johns AT TELCC221642



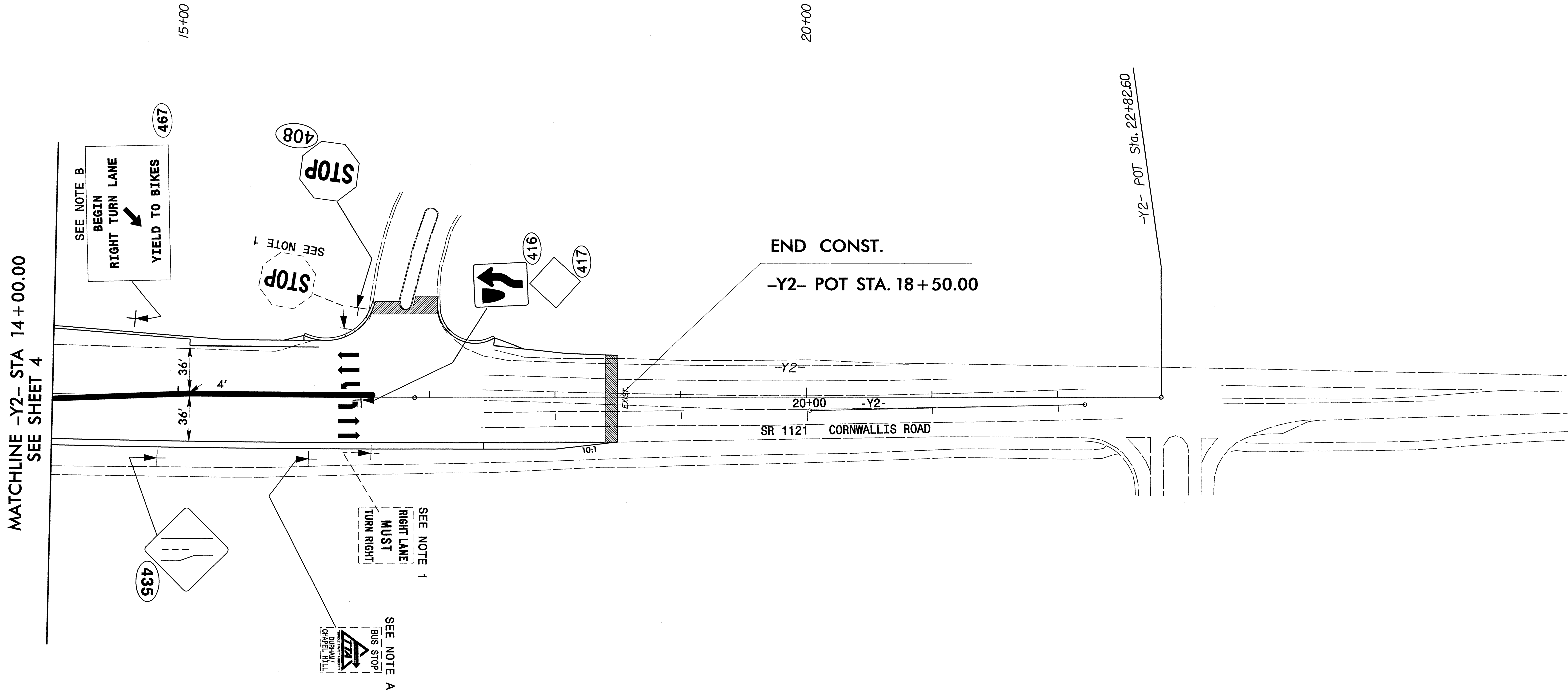
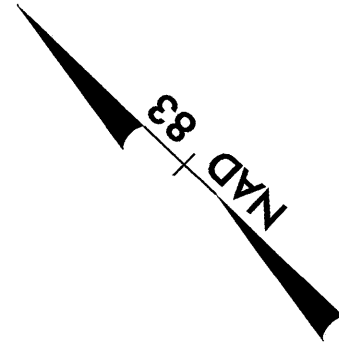
PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2	RELOCATE SIGN, TYPE E
3	DISPOSAL OF SUPPORT, U-CHANNEL

PROPOSED & EXISTING SIGNS
 STA. 13+00 -Y1- TO STA. 19+00 -Y1-
 SR 1121 (CORNWALLIS ROAD)

APPROVED: _____

DATE: _____

SEAL



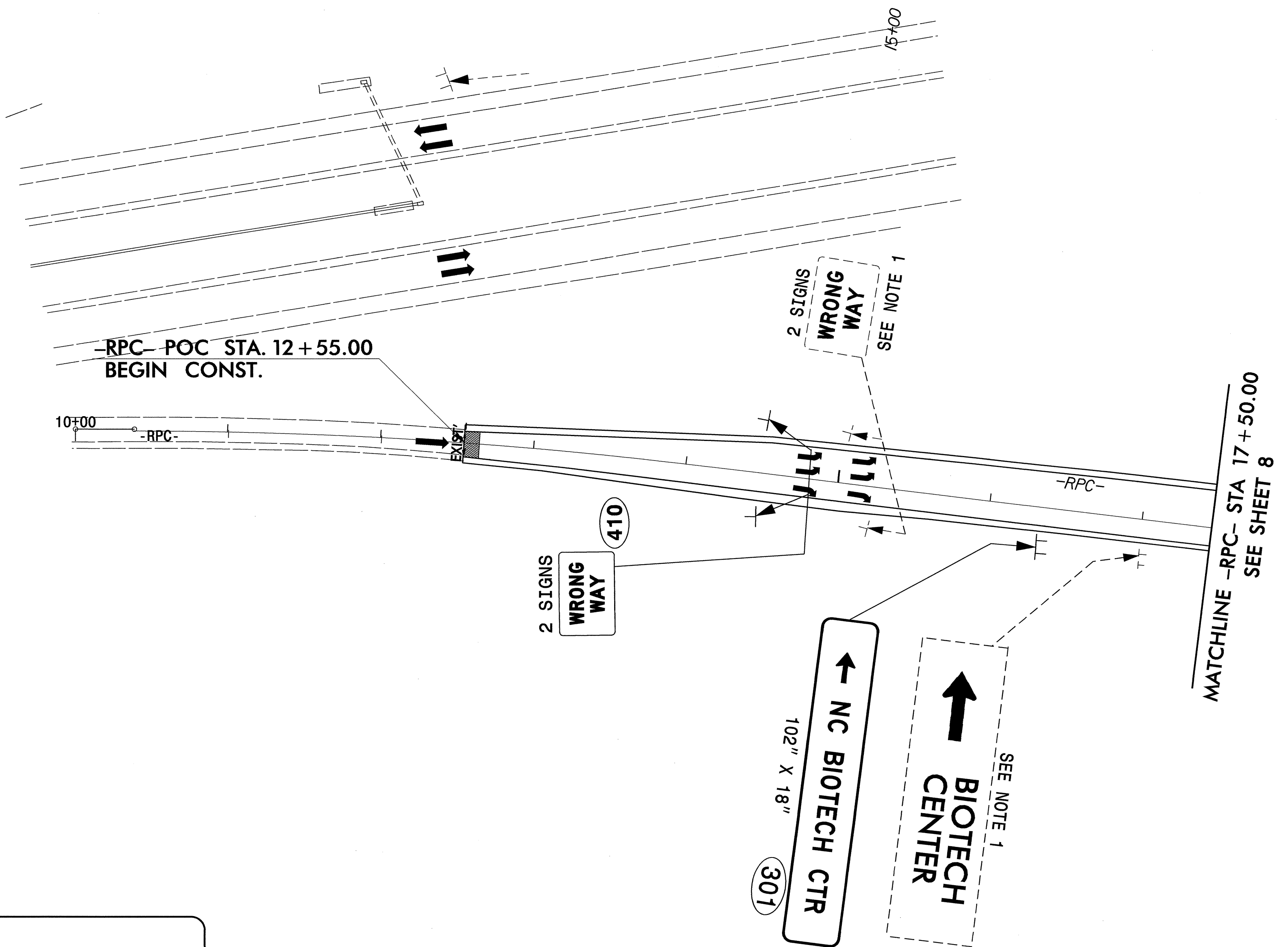
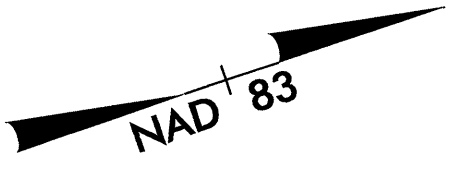
PAY ITEM NOTES

1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
---	------------------------------------

PROJECT NOTES

A	TO BE RELOCATED BY OTHERS
B	COORDINATE SIGN PLACEMENT WITH PAVEMENT MARKINGS

**PROPOSED & EXISTING SIGNS
STA. 14+00 -Y2- TO STA. 18+50 -Y2-
SR 1121 (CORNWALLIS ROAD)**



PAY ITEM NOTES

1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
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PROPOSED & EXISTING SIGNS
STA. 10+00 -RPC- TO STA. 17+50 -RPC-