COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS
STRUCTURE PLANS
UTILITY WORK PLANS
ELWOOD SITE PLAN

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4-8	DRAINAGE MAPS
9-13	TYPICAL SECTIONS
SQ-1 - SQ-35	SUMMARY OF QUANTITIES
14-29	SUMMARY OF DRAINAGE STRUCTURES
30-31	PROJECT LAYOUT
32-34	GENERAL NOTES
35	TRAFFIC CONTROL PLAN GENERAL NOTES
36-57	ROADWAY PLAN
58-77	ROADWAY PROFILE
78-86	INTERSECTION DETAIL
87-132	DRAINAGE STRUCTURE SECTIONS
133-138	STORMWATER MANAGEMENT FACILITY
139-141	DRAINAGE DETAILS
142	CROSS SECTIONS PATTERN
143	ROADWAY SOIL SURVEY
144-267	CROSS SECTIONS
268-290	EROSION CONTROL PLAN
291-318	TRAFFIC CONTROL PLAN
319-341	UTILITY ADJUSTMENTS
342	Vvh TEST HOLE DATA
343-344	PROJECT NETWORK CONTROL

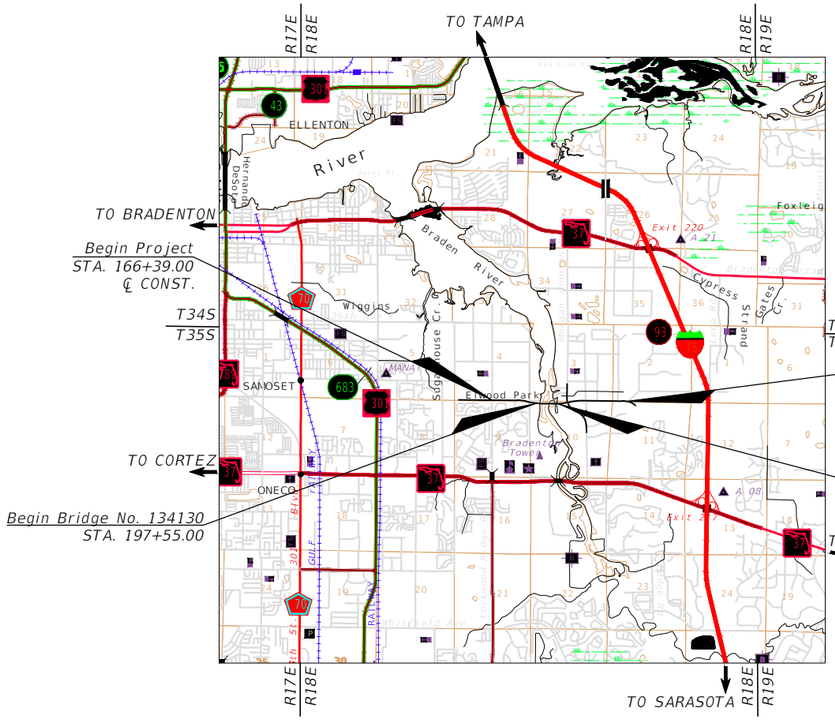
CONTRACT PLANS

COUNTY PROJECT NUMBER 6086960

MANATEE COUNTY

44th AVENUE EAST - BRADEN RIVER SEGMENT
(45th STREET EAST TO 44th AVENUE PLAZA EAST)

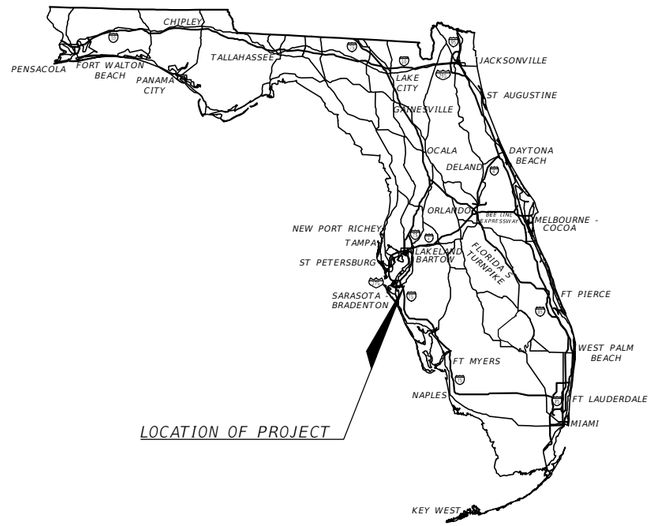
FEBRUARY 2019

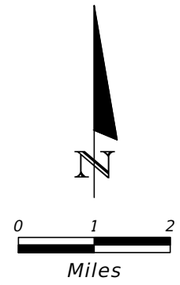


PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	7861.00	1.489
BRIDGES	1500.00	0.284
NET LENGTH OF PROJECT	9361.00	1.773
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	9361.00	1.773





ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

AECOM
ATTN: DAREN CARRIERE
7650 W COURTNEY CAMPBELL CAUSEWAY
TAMPA, FLORIDA 33607
(813) 286-1711

PLANS PREPARED BY:

AECOM TECHNICAL SERVICES, INC.
7650 W. COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711

VENDOR NO. F952661922
CERTIFICATE OF AUTHORIZATION NO. 00008115

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

FINAL SUBMITTAL

ROADWAY PLANS
ENGINEER OF RECORD: ROBERT EDWARD HIDECK, P.E.

P.E. NO.: 67495

FISCAL YEAR	SHEET NO.
18	1

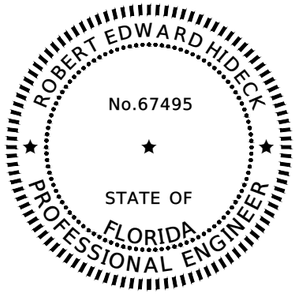
GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2016-17 Design Standards and revised Index Drawings as appended herein, and JULY 2017 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents

For FDOT Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/rddesign/

For Manatee County Design Standards click on the "Transportation Design Standards" link at the following web site:
https://www.mymanatee.org/home/government/departments/public-works/engineering-services/engineering-standards.html
For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

MANATEE COUNTY PROJECT MANAGER: ERIC SHROYER, P.E.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



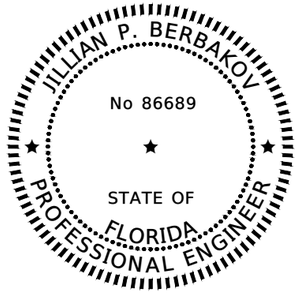
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HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD
SUITE 310
TAMPA, FL 33634
CERTIFICATE OF AUTHORIZATION: 29741
ROBERT EDWARD HIDECK, P.E.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
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3	SUMMARY OF PAY ITEMS
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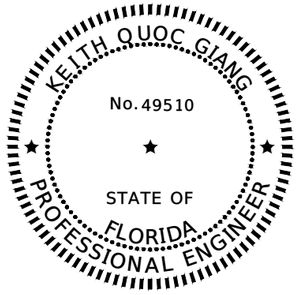
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AECOM TECHNICAL SERVICES, INC.
7650 W. COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607
CERTIFICATE OF AUHORIZATION: 00008115
JILLIAN P. BERBAKOV, P.E.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
4-8	DRAINAGE MAPS
14-29	SUMMARY OF DRAINAGE STRUCTURES
87-132	DRAINAGE STRUCTURE SECTIONS
133-138	STORMWATER MANAGEMENT FACILITY
139-141	DRAINAGE DETAILS



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AECOM TECHNICAL SERVICES, INC.
7650 W. COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607
CERTIFICATE OF AUHORIZATION: 00008115
KEITH QUOC GIANG, P.E.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
34	GENERAL NOTES (3)
143	ROADWAY SOIL SURVEY

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
FL. LICENSE NO.: 67495

SIGNATURE SHEET

SHEET NO.: 2

Floyd, Cindy
6/24/2019 8:04:52 AM
S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\SIGNRD01.dwg

44th Ave Manatee County
County Project No. 6086960

ROADWAY QUANTITIES

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL
0101 1	MOBILIZATION	LS	1
0102 1	MAINTENANCE OF TRAFFIC	LS	1
0102 60	WORK ZONE SIGN	ED	335
0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	744
0102 74 2	CHANNELIZING DEVICE, TYPE III, 6'	ED	203
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	2
0102 78	REFLECTIVE PAVEMENT MARKER, TEMPORARY	EA	961
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	2
0102 107 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE OF INTERSECTION	ED	200
0104 10 3	SEDIMENT BARRIERS	LF	25889
0104 11	FLOATING TURBIDITY BARRIER	LF	444
0104 12	STAKED TURBIDITY BARRIER	LF	76
0104 18	INLET PROTECTION SYSTEM	EA	120
0107 1	LITTER REMOVAL AND DISPOSAL	LS/AC	17.8
0107 2	MOWING	AC	9.34
0110 1 1	CLEARING & GRUBBING	AC	38
0110 4 10	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	3983
110 5	PLUGGING WATER WELLS, ARTESIAN	EA	1
110 6	PLUGGING WATER WELLS, NON-ARTESIAN	EA	1
120-1	REGULAR EXCAVATION	CY	81636
120-4	SUBSOIL EXCAVATION	CY	1571
0120 6	EMBANKMENT	CY	68998
0160 4	TYPE B STABILIZATION	SY	101690
285 701	OPTIONAL BASE, BASE GROUP 01	SY	10354
0285 709	OPTIONAL BASE, BASE GROUP 09	SY	70797
0327 70 05	MILLING EXISTING ASPHALT PAVEMENT (1.5" AVG DEPTH)	SY	3871
0334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	647.7
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	10641
0337-7-83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C ,FC-12.5, PG76-22	TN	9501
339-1	MISC. ASPHALT PAVEMENT	TN	13.25
400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY	58
0515-1-2	PIPE-HANDRAIL, ALUMINUM	LF	1068
0520-1-10	CONCRETE CURB, TYPE F	LF	16912
0520-1-11	CONCRETE CURB AND GUTTER - TYPE AB	LF	7681
520-5-11	CONCRETE TRAFFIC SEPARATOR TYPE 1, 4' WIDE	LF	1386
520-5-16	CONCRETE TRAFFIC SEPARATOR TYPE 1, 8.5' WIDE	LF	1401
521-1	MEDIAN CONCRETE BARRIER	LF	3557
0521 72 5	SHOULDER CONCRETE BARRIER WALL	LF	3720
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	5791
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	2849
527 2	DETECTABLE WARNINGS	SF	495
536-1-0	GUARDRAIL-ROADWAY GENERAL TL-2	LF	366.8
536-85-24	GUARDRAIL END ANCHORAGE ASSEMBLY/END TREATMENT- PARALLEL	EA	1
536-85-26	GUARDRAIL END ANCHORAGE ASSEMBLY/END TREATMENT- TYPE CRT	EA	1
570-1-1	HYDROSEED/MULCH	SY	26152
570-1-2	PERFORMANCE TURF, SOD	SY	19069
0710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	3.34
710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	97.8
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	128.1
0710 11 131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	52.79
710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	2
0710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	55.4
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	680.2
0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS/LS	1

44th Ave Manatee County
County Project No. 6086960

DRAINAGE QUANTITIES

PAY ITEM NUMBER	DESCRIPTION	UNIT	TOTAL
0400-1-2	CONCRETE CLASS I, ENDWALLS	CY	8
0400-2-2	STRAIGHT CONCRETE ENDWALL	CY	12.5
0425-1-351	INLETS, CURB, TYPE P-5, <10'	EA	19
0425-1-352	INLETS, CURB, TYPE P-5, >10'	EA	2
0425-1-361	INLETS, CURB, TYPE P-6, <10'	EA	18
0425-1-451	INLETS, CURB, TYPE J-5, <10'	EA	11
0425-1-452	INLETS, CURB, TYPE J-5, >10'	EA	7
0425-1-461	INLETS, CURB, TYPE J-6, <10'	EA	9
0425-1-462	INLETS, CURB, TYPE J-6, >10'	EA	4
0425-1-531	INLETS, DITCH BOTTOM, TYPE C MODIFIED- BACK OF SIDEWALK, <10'	EA	20
0425-1-541	INLETS, DT BOT, TYPE D, <10'	EA	4
0425-1-551	INLETS, DT BOT, TYPE E, <10'	EA	3
0425-1-581	INLETS, DT BOT, TYPE H, <10'	EA	2
0425-1-891	INLETS, BARRIER WALL, <10'	EA	5
0425-1-910	INLETS, CLOSED FLUME	EA	4
0425-2-41	MANHOLES, P-7, <10'	EA	6
0425-2-71	MANHOLES, J-7, <10'	EA	9
0425-2-72	MANHOLES, J-7, >10'	EA	5
0430-175-112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	LF	53
0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	4228
0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	2223
0430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	716
0430-175-136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	1329
0430-175-142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	LF	695
0430-175-148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	1234
0430-175-154	PIPE CULVERT, OPT MATERIAL, ROUND, 54"S/CD	LF	3056
0430-175-160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	LF	1516
0430-175-218	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 18"S/CD	LF	226
0430-175-224	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 24"S/CD	LF	277
0430-175-230	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 30"S/CD	LF	79
0430-175-242	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 42"S/CD	LF	198
0430-175-254	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 54"S/CD	LF	36
0430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	3
0430-982-129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	4
0430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	1
0430-982-142	MITERED END SECTION, OPTIONAL ROUND, 54" CD	EA	2
0430-982-143	MITERED END SECTION, OPTIONAL ROUND, 60" CD	EA	1
0430-982-625	MITERED END SECTION, OPTIONAL ELLIP/ARCH, 18" CD	EA	2
0430-982-629	MITERED END SECTION, OPTIONAL ELLIP/ARCH, 24" CD	EA	1

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

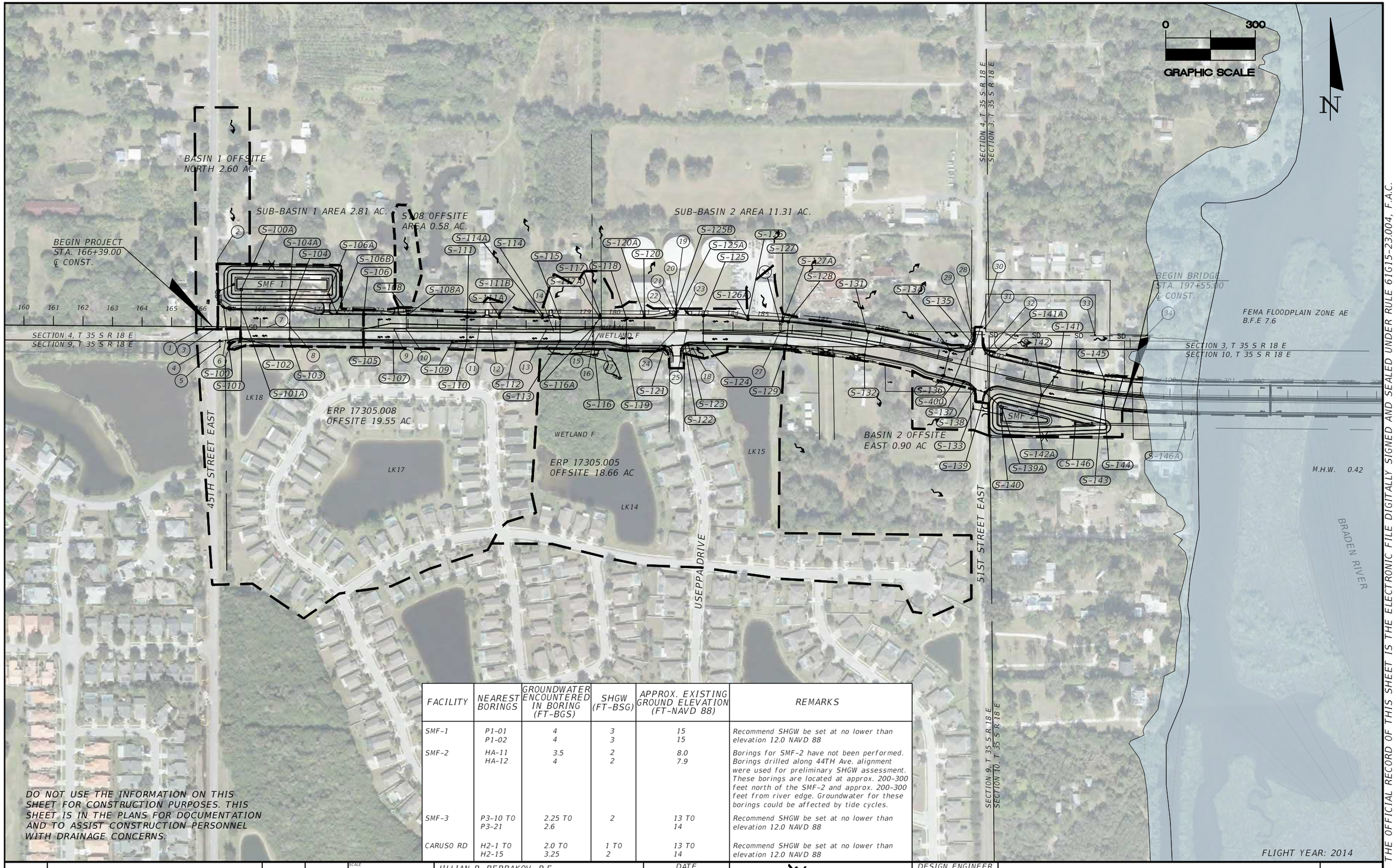
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

SUMMARY OF PAY ITEMS

SHEET NO. 3

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6/26/2019 10:53:47 AM
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FACILITY	NEAREST BORINGS	GROUNDWATER ENCOUNTERED IN BORING (FT-BGS)	SHGW (FT-BSG)	APPROX. EXISTING GROUND ELEVATION (FT-NAVD 88)	REMARKS
SMF-1	P1-01 P1-02	4 4	3 3	15 15	Recommend SHGW be set at no lower than elevation 12.0 NAVD 88
SMF-2	HA-11 HA-12	3.5 4	2 2	8.0 7.9	Borings for SMF-2 have not been performed. Borings drilled along 44TH Ave. alignment were used for preliminary SHGW assessment. These borings are located at approx. 200-300 feet north of the SMF-2 and approx. 200-300 feet from river edge. Groundwater for these borings could be affected by tide cycles.
SMF-3	P3-10 TO P3-21	2.25 TO 2.6	2	13 TO 14	Recommend SHGW be set at no lower than elevation 12.0 NAVD 88
CARUSO RD	H2-1 TO H2-15	2.0 TO 3.25	1 TO 2	13 TO 14	Recommend SHGW be set at no lower than elevation 12.0 NAVD 88

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

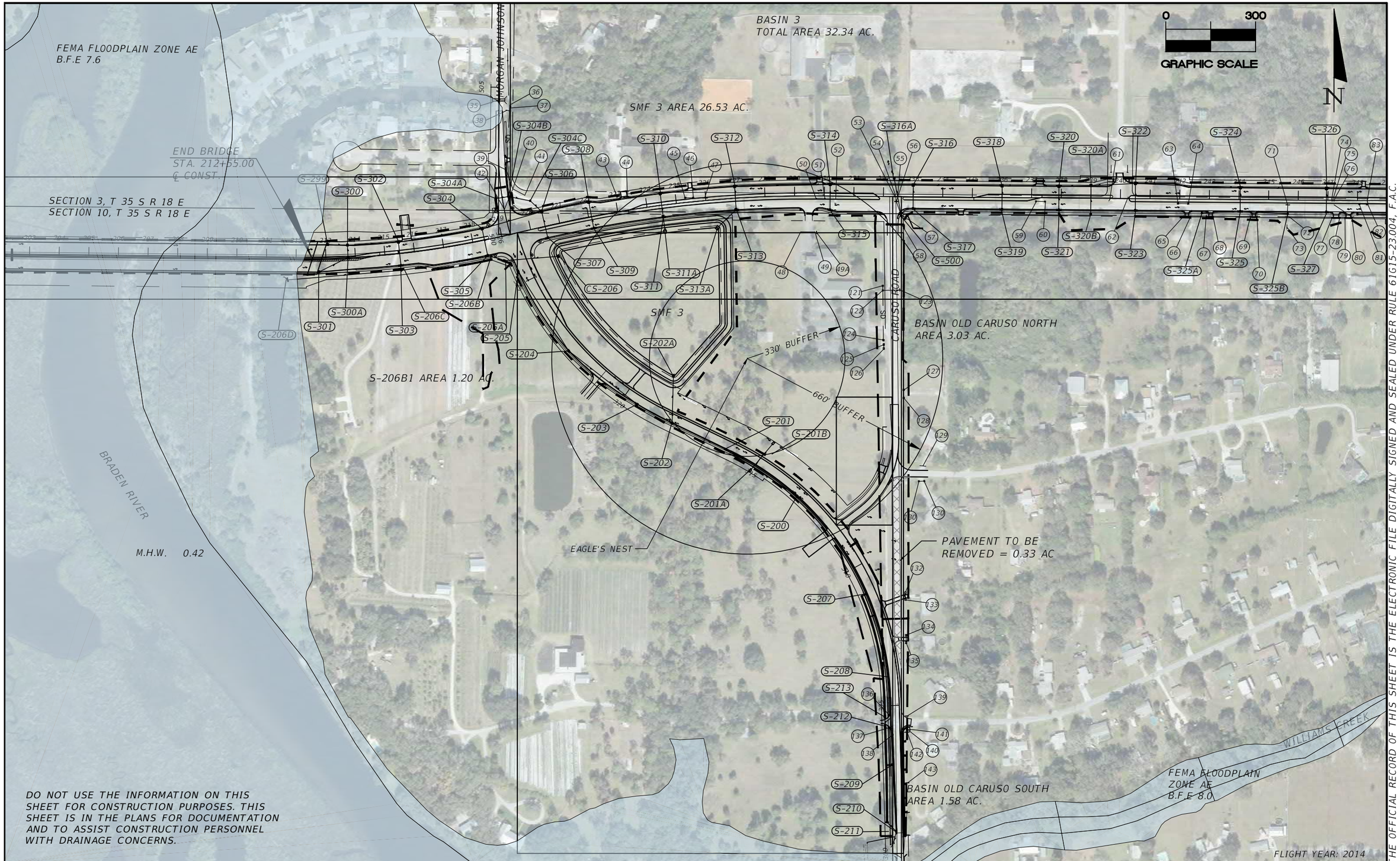
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE MAP (1)

SHEET NO.: 4

Floyd, Cindy
2/5/2019 2:06:35 PM
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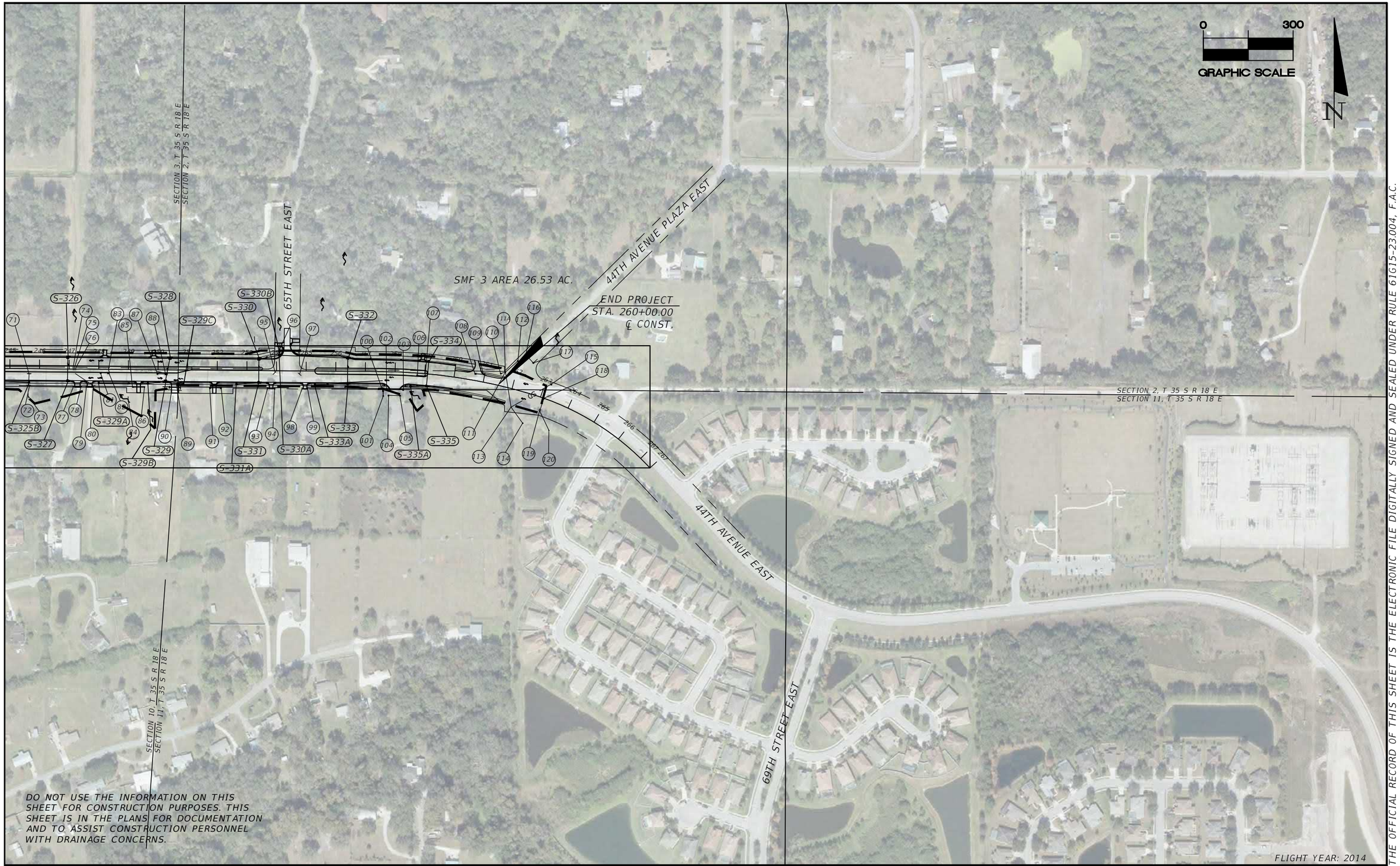
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE MAP (2)

SHEET NO.: 5

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
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Manatee County Florida
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE MAP (3)

SHEET NO.: 6

Floyd, Cindy
2/5/2019 2:15:51 PM
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1 END OF PIPE
12"x19" ERCP
INV.=11.63

2 END OF PIPE
12"x19" ERCP
INV.=12.07

3 MH
GRATE EL 14.99
12"x19" ERCP
E & N INV=11.51
W INV=11.54

4 CURB INLET
TOP EL 15.63
12" PVC
S INV=15.01
E INV=13.80

5 MES

6 MES
12" PVC
W INV=13.76

7 MEDIAN INLET
TOP EL 15.53
12"x19" ERCP
W INV=11.18
E INV=11.54

8 HEADWALL
TOP EL 14.32
12"x19" ERCP
W INV=11.63

9 HEADWALL
TOP EL 16.52
48" RCP
E INV=11.18

10 HEADWALL
TOP EL 16.52
48" RCP
W INV=11.64

11 HEADWALL
TOP EL 16.25
36" RCP
E INV=11.40

12 HEADWALL
TOP EL 15.95
36" RCP
W INV=11.09

13 HEADWALL
TOP EL 15.96
36" RCP
E INV=11.14

14 HEADWALL
TOP EL 15.49
36" RCP
W INV=10.66

15 HEADWALL
TOP EL 16.02
29"x45" ERCP
S INV=11.78

16 HEADWALL
TOP EL 16.05
29"x45" ERCP
N INV=11.85

17 END OF PIPE
12"x19" ERCP
INV. NOT LOCATED

18 MES
12"x19" ERCP
W INV.=14.23

19 END OF PIPE
12" RCP
INV. NOT LOCATED

20 MEDIAN INLET
TOP EL 15.27
12" PVC
N INV=10.30
S INV=10.49

21 MEDIAN INLET
TOP EL 15.53
12" PVC
W, S & N INV=10.30

22 UNKNOWN
STRUCTURE

23 END OF PIPE
12" RCP
INV NOT LOCATED

24 HEADWALL
TOP EL 15.95
42" RCP
E INV=10.62

25 HEADWALL
TOP EL 15.94
42" RCP
W INV=10.50

26 STRUCTURE
TOP EL 15.65
24" STEEL
INV NOT LOCATED

27 HEADWALL
TOP EL 13.70
24" STEEL
N INV=10.70

28 HEADWALL
TOP EL 12.37
24" RCP
S INV=8.54

29 INLET
TOP EL 14.36
36" RCP
E INV=8.27
48" RCP
W INV=8.53
24" RCP
N INV=9.48
19"x30" ERCP
S INV=11.28

30 MES
19"x30" ERCP
N INV=11.35

31 INLET
TOP EL 13.74
15" RCP
S INV=10.54

32 MES
15" RCP
N INV=11.42

33 JUNCTION BOX
TOP EL 7.95
W/ 1"x2.6" SLOT N
EL=6.95

34 END OF PIPE
36" RCP TURNS
TO 48" PLASTIC END
E INV=-0.64

35 BOX CULVERT
8'x9'

36 END OF PIPE
24" RCP
INV=2.40

37 PIPE, 8" PVC
N INV=5.70
S INV=10.46

38 PIPE, 8" PVC
W INV=12.66
E INV=11.61

39 MH
TOP EL 13.28
24" RCP
N INV=6.48
S INV=8.25

40 MH
TOP EL 13.10
24" RCP
N INV=9.83
18" RCP
SW INV=10.33
SE INV=9.98

41 END OF PIPE
18" RCP
W INV=9.92

42 END OF PIPE
18" RCP
N INV=10.72

43 MES
12"x18" ERCP
E INV=11.77

44 MES
12"x18"" ERCP
W INV=11.71

45 MES
12"x18" ERCP
E INV=12.20

46 MES
12"x18" ERCP
W INV=12.20

47 PIPE, 12" PVC
W INV=12.48
E INV=12.63

48 END OF PIPE
E INV=11.97

49 YARD DRAIN 6"∅
TOP EL 13.88
N & S INV=13.38

49A HEADWALL
NW&SW EL=14.20
NE&SE EL=13.50

50 MES
12"x18" ERCP
E INV=12.57

51 MES
12"x18" ERCP
W INV=12.43

52 PIPE
12"x18" ERCP
W INV=12.38
E INV=12.26

53 PIPE, 24" RCP
N INV=10.37
S INV=10.58

54 PIPE, 24" RCP
N INV=10.01
S INV=10.30

55 HEADWALL
EL 14.50

56 HEADWALL
NW EL=13.90
SW EL=14.0
SE&SW EL=14.00
S INV=10.07

57 GRATE INLET
GRATE EL 13.67
24" RCP
S INV=10.43

58 HEADWALL
NW&NE EL=13.30
SW&SE EL=13.10
N INV=10.46

59 MES
12"x18" ERCP
E INV=12.55

60 MES
12"x18"" ERCP
W INV=12.41

61 PIPE
12"x18" ERCP
NE INV=12.66
SW INV=12.82

62 PIPE
12"x18" ERCP
NW INV=13.15
SE INV=13.10

63 MES
12"x18" ERCP
E INV=13.75

64 MES
12"x18"" ERCP
W INV=13.74

65 HEADWALL
TOP EL 15.30
18" RCP
E INV=12.68

66 HEADWALL
TOP EL 15.30
18" RCP
W INV=12.68

67 HEADWALL
TOP EL 14.80
18" RCP
E INV=12.61

68 HEADWALL
TOP EL 15.3 (N)
14.8 (S)
18" RCP
W INV=12.52

69 HEADWALL
TOP EL 15.50
24" RCP
E INV=12.26

70 HEADWALL
TOP EL 15.40
24" RCP
W INV=12.16

71 HEADWALL
TOP EL 15.10
29"x42" CMP
S INV=12.00

72 HEADWALL
TOP EL 15.10
29"x42" CMP
N INV=11.86

73 PIPE
N INV=13.00

74 PIPE, 15" RCP
N INV=12.10
S INV=12.01

75 PIPE
29"x42" RCP
N INV=11.50
S INV=11.40

76 PIPE, 15" RCP
N INV=12.03
S INV=11.98

77 MES
18" RCP
E INV=12.00

78 MES
18" RCP
W INV=12.10

79 HEADWALL
TOP EL 14.7 (NW)
14.5 (SW)
15.2 (NE)
15.0 (SE)
18" RCP
E INV=12.29

80 HEADWALL
TOP EL 14.80
18" RCP
W INV=12.10

81 MES
14"x23" RCP
E INV=12.62

82 MES
14"x23" RCP
W INV=12.52

83 PIPE, 12" PVC
NW INV=13.34
SE INV=13.21

84 PIPE, 18" CPP
N INV=12.15
S INV=12.60

85 MES
24" CPP
E INV=12.07

86 MES
24" CPP
W INV=11.99

86 MES
24" CPP
W INV=11.99

87 MES
12"x18" RCP
E INV=12.94

88 MES
12"x18" RCP
W INV=13.12

89 PIPE, 18" RCP
HDW W INV=12.11
HDW E INV=12.24

90 PIPE, 15" PVC
W INV=13.41
E INV=13.16

91 MES
14"x23" RCP
E INV=12.66

92 MES
14"x23" RCP
W INV=12.75

93 HEADWALL
TOP EL 15.40
18" RCP
E INV=12.77

94 HEADWALL
TOP EL 15.80
18" RCP
W INV=13.13

95 PIPE
12"x18" RCP
SW INV=13.24
NE INV=13.31

96 MES
12"x18" RCP
N INV=12.96

97 PIPE
12"x18" RCP
NW INV=13.83
SE INV=13.82

98 HEADWALL
TOP EL 16.10
18" RCP
E INV=13.34

99 HEADWALL
TOP EL 16.00
18" RCP
W INV=13.23

100 MES
12" RCP
S INV=16.46

101 GRATE INLET
GRATE EL 19.37
12" RCP
W INV=17.31
S INV=16.29

102 MES
12"x18" RCP
E INV=15.79

103 MES
12"x18" RCP
W INV=16.04

104 MES
12" RCP
E INV=18.07

105 MES
12" RCP
W INV=18.09

106 MES
12"x18" RCP
E INV=15.83

107 MES
12"x18" RCP
W INV=15.82

108 MES
12"x18" RCP
E INV=17.28

109 MES
12"x18" RCP
W INV=17.32

110 MES
12"x18" RCP
E INV=16.89

111 GRATE INLET
TOP EL 20.00
W INV=16.63
S INV=16.10
NE INV=16.80

111A MH
TOP EL 16.28
19"x30" ERCP
SE INV=16.28
N INV=16.16
S INV=16.05

112 MES
12"x18" RCP
SW INV=16.91
NE INV=16.82

113 JUNCTION BOX
TOP EL 20.32
24" RCP
SE INV=16.48
19"x30" ERCP
NE&NW INV=16.50

114 GRATE INLET CS#3
GRATE EL 20.18
24" RCP
NW INV=16.58

115 GRATE INLET #1
GRATE EL 19.11
19"x30" ERCP
SW INV=16.43
W INV=16.32
E INV=16.28

116 GRATE INLET
GRATE EL 17.05
12"x18" RCP
SE INV=13.31

117 GRATE INLET
GRATE EL 19.00
12"x18" RCP
NW INV=17.08
NE INV=17.10

118 CURB INLET
TOP EL 21.45
18" RCP
S INV=18.26

119 CATCH BASIN
TOP EL 21.42
18" RCP
N INV=18.15
SE INV=17.80

120 MES
24" RCP
NW INV=20.10

121 MES
12"x18" RCP
S INV=12.01

122 CATCH BASIN
12"x18" ERCP (N)
18"x30" ERCP
E INV=11.65
15"x20"" ERCP (S)

123 HEADWALL
TOP EL 13.86
18"x30" ERCP
W INV=11.58

124 MES
15"x20" ERCP
N INV=11.93

125 MES
15" RCP
S INV=11.51

126 MES
15" RCP
N INV=11.49

127 MES
12"x24" ERCP
S INV=10.37

128 MES
12"x24" ERCP
N INV=10.58

129 PIPE
12"x18" ERCP
E INV=11.84
W INV=11.77

130 MES
22"x34" ERCP
E INV=11.59

131 MES
22"x34" ERCP
W INV=11.64

132 MES
22"x34" ERCP
S INV=11.02

133 MES
22"x34" ERCP
N INV=10.99

134 MES
21"x30" ERCP
S INV=11.47

135 MES
21"x30" ERCP
N INV=11.46

136 END OF PIPE
24" RCP
S INV=9.94

137 MH
TOP EL 12.96
24" RCP
N & S INV=UNKNOWN

138 MES
24" RCP
N INV=10.82

139 HEADWALL
TOP EL 12.47
24" RCP
S INV=9.10

140 CATCH BASIN
TOP EL 11.53
24" RCP
N INV=8.75
E INV=8.13
S INV=8.62

141 HEADWALL
TOP EL 11.67
24" RCP
W INV=8.13

142 HEADWALL
TOP EL 12.12
24" RCP
N INV=8.62

143 HEADWALL
TOP EL 9.45
2.85"x3.95" OPENING
INV=6.60

144 HEADWALL
TOP EL 8.19
3.95"x4.00" OPENING
INV=4.40

145 HEADWALL
TOP EL 7.91
30" RCP
S INV=2.93

146 CATCH BASIN
TOP EL 9.65
18"x30" ERCP
S INV=6.62

147 END OF PIPE
18"x30" ERCP
N INV=5.56

148 END OF PIPE
30" RCP
N INV=1.03

149 HEADWALL

150 HEADWALL

151 END OF PIPE
24" CORR PLASTIC
S INV=2.19

152 WINGWALL
TOP EL 9.50
24" CORR PLASTIC
N INV=6.32

153 MES
18"x30" ERCP
N INV=7.87

154 END OF PIPE
18"x30" ERCP
S INV=7.84

155 MES
15"x24" ERCP
S INV=7.87

156 CATCH BASIN
TOP EL 9.86
15"x24" ERCP
N INV=8.66

157 HEADWALL
TOP EL 10.98
14"x20" ERCP
S INV=8.53

158 HEADWALL
TOP EL 11.11
14"x20" ERCP
N INV=8.54

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.

FL. LICENSE NO.: 86689

EXISTING DRAINAGE STRUCTURES

SHEET NO.: 7

STRUCTURE #	AREA (AC)
S-100	0.61
S-100A	0.00
S-101	0.23
S-101A	0.00
S-102	0.07
S-103	0.26
S-104	0.40
S-104A	0.00
S-105	0.08
S-106	0.10
CS-106A	0.00
S-106B	0.00
S-107	0.09
S-108	0.58
S-108A	0.00
S-109	0.10
S-110	0.61
S-111	0.74
S-111A	0.00
S-111B	0.09
S-112	0.06
S-113	0.07
S-114	0.25
S-114A	0.00
S-115	0.08
S-116	0.09
S-116A	0.00
S-117	0.33
S-117A	0.00
S-118	0.64
S-119	0.63
S-120	0.12
S-120A	0.00
S-121	0.06
S-122	0.05
S-123	0.08
S-124	0.05
S-125	0.10
S-125A	0.00
S-125B	0.00
S-126	0.14
S-126A	0.00
S-127	0.23
S-127A	0.00
S-128	0.33
S-129	0.33
S-130	NOT USED
S-131	0.34
S-132	0.33
S-133	0.90
S-134	0.75
S-135	0.04
S-136	0.37

STRUCTURE #	AREA (AC)
S-137	0.00
S-138	0.23
S-139	0.25
S-140	0.00
S-141	0.40
S-141A	0.94
S-142	0.32
S-143	0.62
S-144	0.13
S-145	0.90
CS-146	0.00
S-146A	0.00
S-400	0.25
S-500	0.00

STRUCTURE #	AREA (AC)
S-200	0.62
S-201	0.06
S-201A	1.22
S-201B	0.00
S-202	0.42
S-203	0.13
S-204	0.28
S-205	0.67
CS-206	0.00
S-206A	1.20
S-206B	0.00
S-206C	0.00
S-206D	0.00
S-207	0.00
S-208	0.00
S-209	0.00
S-210	0.30
S-211	0.00
S-299	1.02

STRUCTURE #	AREA (AC)
S-300	0.07
S-300A	0.27
S-301	1.07
S-302	0.48
S-303	0.64
S-304	0.06
S-304A	0.04
S-304B	0.06
S-304C	0.00
S-305	0.08
S-306	0.33
S-307	0.26
S-308	0.62
S-309	0.42
S-310	0.33
S-311	0.28
S-311A	0.00
S-312	0.09
S-313	0.08
S-313A	0.00
S-314	0.69
S-315	0.66
S-316	0.16
S-316A	0.00
S-317	0.12
S-318	0.25
S-319	0.20
S-320	0.67
S-320A	0.00
S-320B	0.13
S-321	0.54
S-322	0.12
S-323	0.15
S-324	0.67
S-325	0.59
S-325A	0.04
S-325B	0.06
S-326	0.13
S-327	0.11
S-328	0.70
S-329	0.64
S-329A	0.10
S-329B	0.10
S-329C	0.17
S-330	0.45
S-330A	0.00
S-330B	0.04
S-331	0.36
S-331A	0.06
S-332	0.32
S-333	0.28
S-333A	0.05
S-334	0.00
S-335	0.50
S-335A	0.04

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

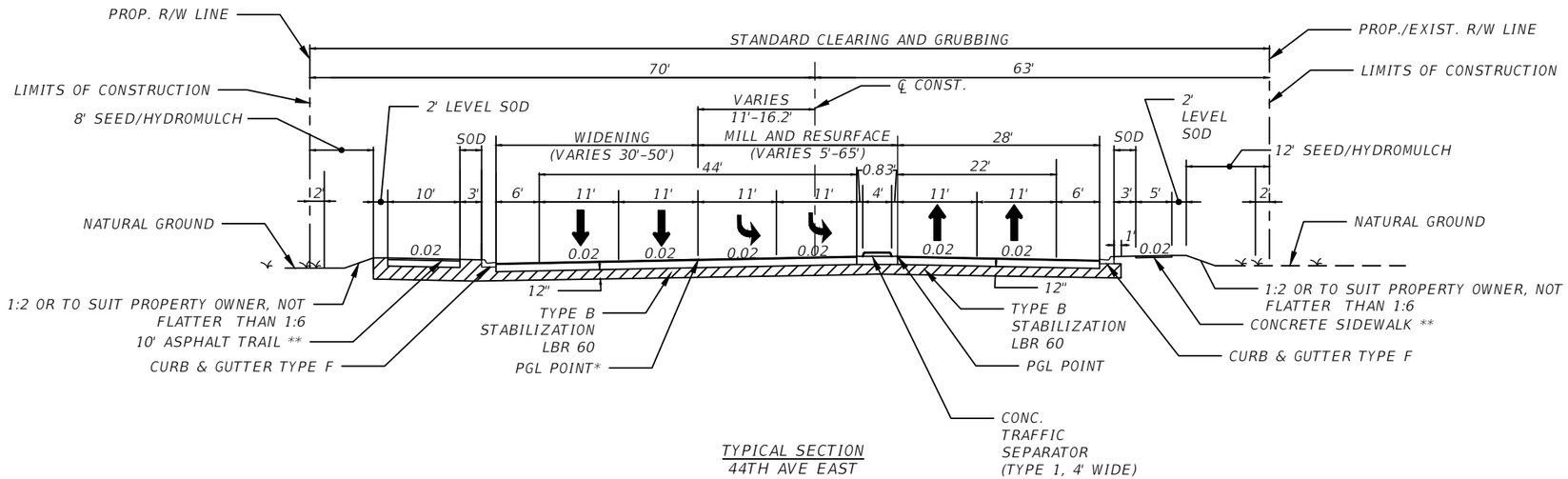
DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

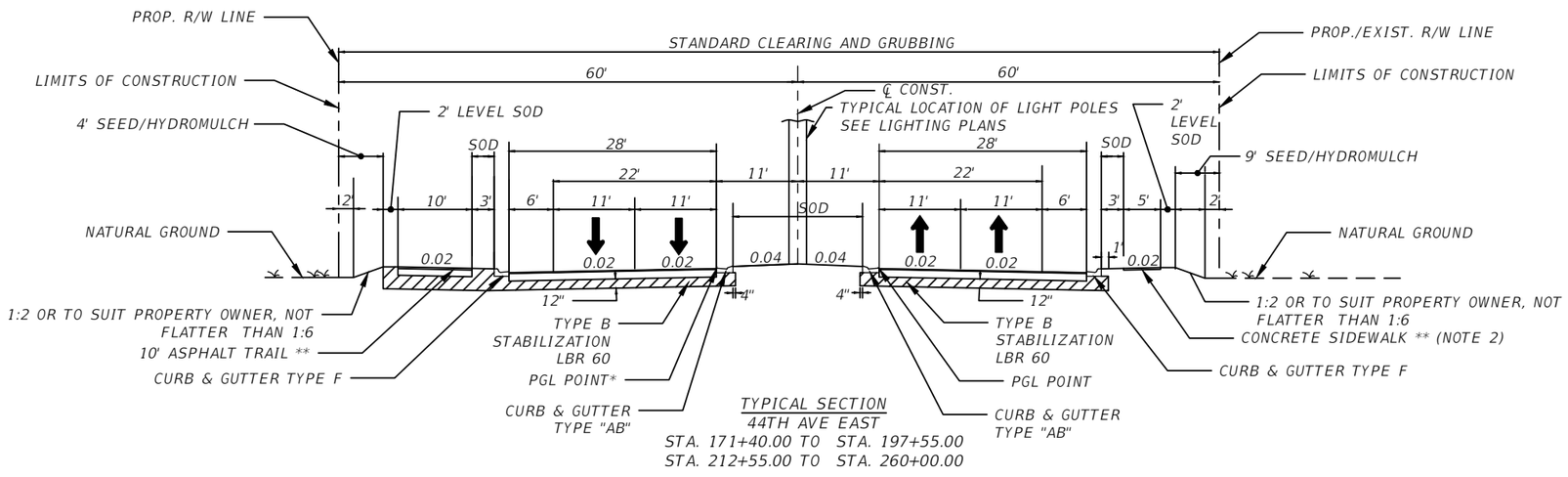
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

PROPOSED DRAINAGE STRUCTURES

SHEET NO.: 8



TYPICAL SECTION
44TH AVE EAST
STA. 166+39.00 TO STA. 171+40.00



TYPICAL SECTION
44TH AVE EAST
STA. 171+40.00 TO STA. 197+55.00
STA. 212+55.00 TO STA. 260+00.00

44TH AVE EAST
TRAFFIC DATA
CURRENT YEAR = 2014 AADT = 6900
ESTIMATED OPENING YEAR = 2020 AADT = 16900
ESTIMATED DESIGN YEAR = 2040 AADT = 35800
K = 9% D = 54.5% T = 7.2% (24 HOUR)
DESIGN HOUR T = 4%
DESIGN SPEED = 45 MPH

NEW CONSTRUCTION (STA. 166+39.00 TO STA. 218+88.19)

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
AND FRICTION COURSE FC-12.5 (1 1/2") PG 76-22

ASPHALT TRAIL

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2")

NEW CONSTRUCTION (STA. 218+88.19 TO STA. 260+00.00)

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2")
AND FRICTION COURSE FC-12.5 (1 1/2") PG 76-22

NOTE 1: PGL LOCATION VARIES STA. 166+39.00 TO STA. 175+35.94

NOTE 2: 6" THICK CONCRETE SIDEWALK SLOPED 0.02 TO THE OUTSIDE FROM WEST OF 51ST ST. EAST TO THE BRIDGE

** CONSTRUCTED CROSS SLOPE SHALL NOT EXCEED 0.02 PER ADA REGULATIONS.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

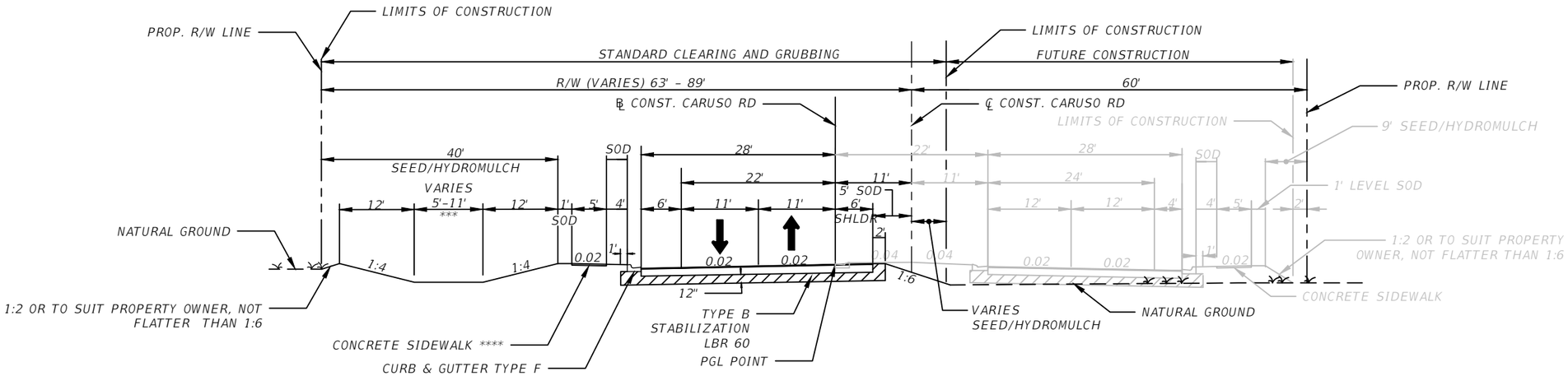
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TYPICAL SECTION (1)

SHEET NO.: 9

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TYPICAL SECTION
CARUSO RD
STA. 300+70.00 TO STA. 326+10.00

CARUSO RD
TRAFFIC DATA
CURRENT YEAR = 2014 AADT = 7100
ESTIMATED OPENING YEAR = 2020 AADT = 9000
ESTIMATED DESIGN YEAR = 2040 AADT = 15300
K = 9% D = 55.1% T = 9.1% (24 HOUR)
DESIGN HOUR T = 4%
DESIGN SPEED = 45 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2")
AND FRICTION COURSE FC-12.5 (1 1/2") PG 76-22

NEW SHOULDER

OPTIONAL BASE GROUP 1 WITH
FRICTION COURSE FC-12.5 (1 1/2") PG 76-22

DITCH LIMITS:
*** STA. 315+20.00 TO STA. 319+50.00
**** CONSTRUCTED CROSS SLOPE SHALL NOT EXCEED 0.02 PER ADA REGULATIONS.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

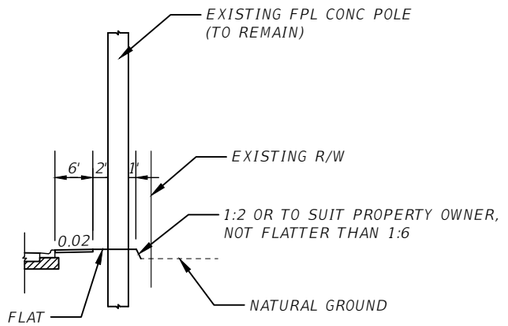
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

TYPICAL SECTION (2)

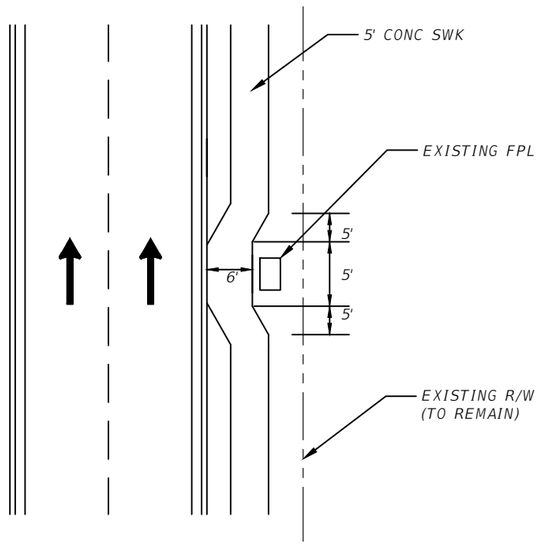
SHEET NO. 10

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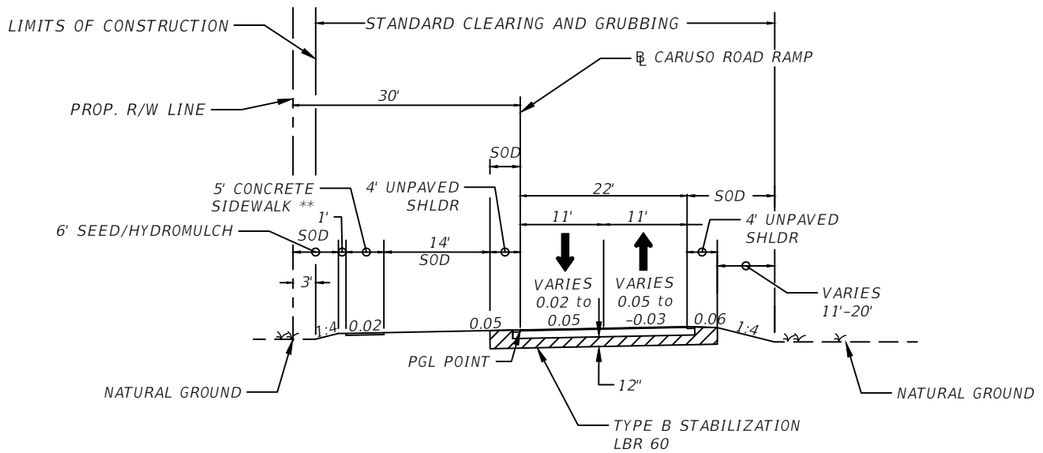


ELEVATION VIEW



PLAN VIEW

*TO BE UTILIZED
WHERE EXISTING FPL CONC. POLE CONFLICTS
WITH PROPOSED 5' CONC. SIDEWALK

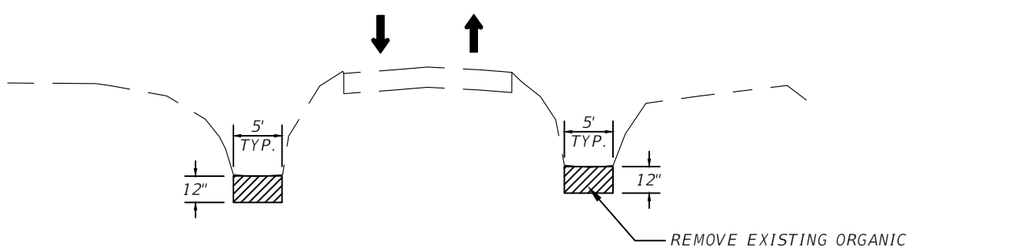


TYPICAL SECTION
CARUSO ROAD RAMP
STA. 413+94.74 TO STA. 418+75.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2")
AND FRICTION COURSE FC-12.5 (1 1/2") PG 76-22

** CONSTRUCTED CROSS SLOPE SHALL NOT EXCEED 0.02
PER ADA REGULATIONS.



REMOVAL OF ORGANIC MATERIAL
ALONG 44TH AVE. EAST
STA. 166+39.00 TO 199+55.00
STA. 212+55.00 TO 261+60.00

THE EXISTING DITCHES SHALL BE CLEARED AND GRUBBED TO DEPTH OF NO LESS THAN 12 INCHES BELOW GROUND SURFACE TO REMOVE ALL TOP SOILS AND VEGETATION. THE STRIPPED SURFACE SHALL BE COMPACTED WITH SHEEPSFOOT ROLLERS IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 129-9 TO IDENTIFY AREAS WITH UNDERLYING SOFT AND YIELDING MATERIALS. WHERE ENCOUNTERED, THE SOFT / YIELDING MATERIALS SHALL BE REMOVED AS PLASTIC MATERIAL IN ACCORDANCE WITH STANDARD INDEX 500. THE LIMITS OF SOFT MATERIALS REMOVAL AND REPLACEMENT SHALL BE DIRECTED BY THE COUNTY REPRESENTATIVE AND SHALL BE PAID FOR AS UNSUITABLE EXCAVATION.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

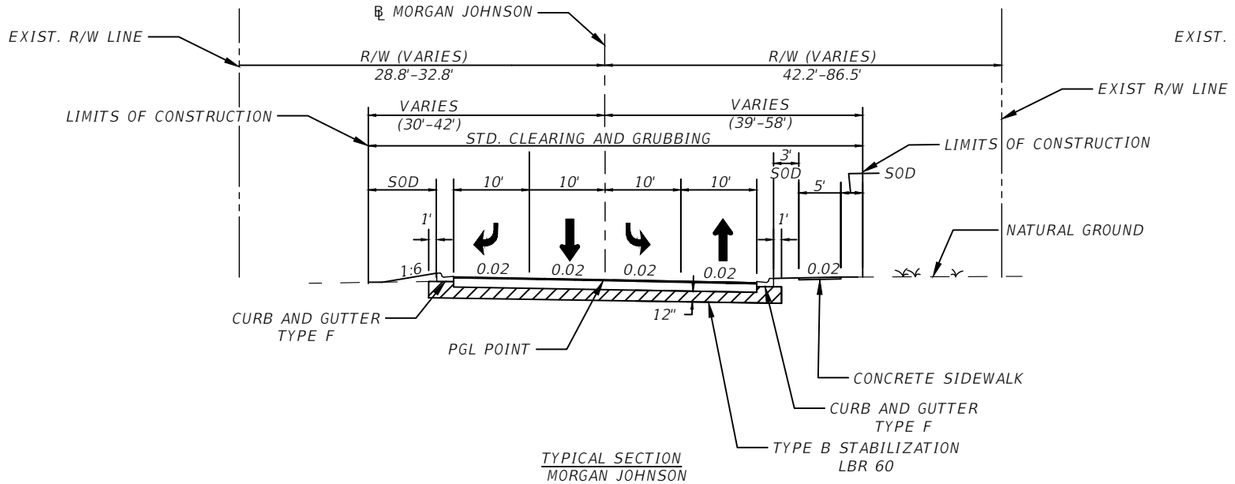
DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.
FL. LICENSE NO.
67495

TYPICAL SECTION (3)

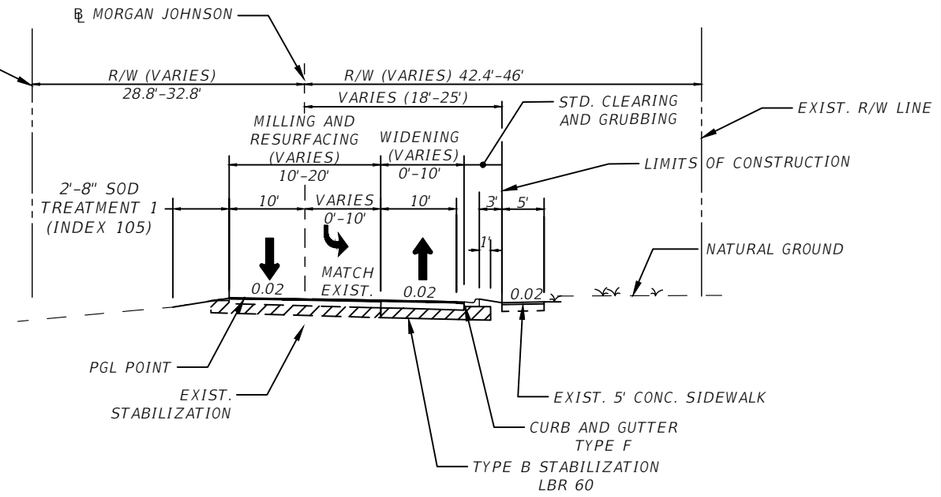
SHEET NO.: 11

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TYPICAL SECTION
MORGAN JOHNSON
500+55.00 TO STA. 502+10.00



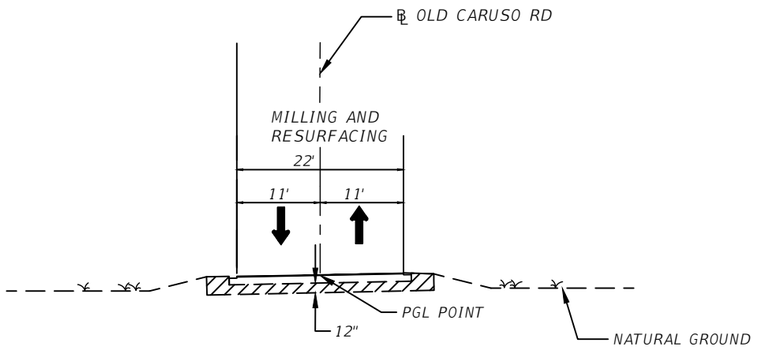
TYPICAL SECTION
MORGAN JOHNSON
STA. 502+10.00 TO STA. 504+20.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2")
AND FRICTION COURSE FC-12.5 (1 1/2") PG 76-22

MILLING AND RESURFACING

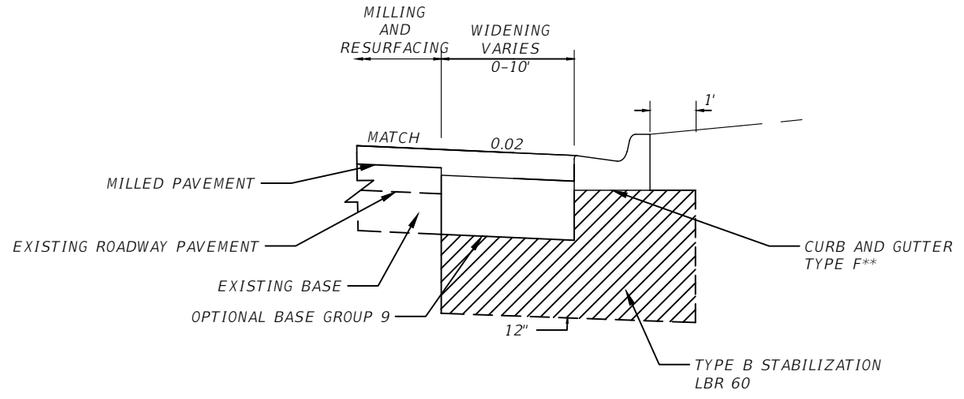
MILL (1 $\frac{1}{2}$") MATCH EXIST.
RESURFACE FRICTION COURSE FC-12.5 (1 $\frac{1}{2}$") PG 76-22



TYPICAL SECTION
OLD CARUSO ROAD
STA. 918+75.00 TO STA. 925+14.82

MILLING AND RESURFACING

MILL (1 $\frac{1}{2}$") MATCH EXIST.
RESURFACE FRICTION COURSE FC-12.5 (1 $\frac{1}{2}$") PG 76-22



WIDENING DETAIL

** STA. 502+10 TO
STA 502+27 RT

No.	REVISIONS	DATE	BY

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TAMPA, FL 33634
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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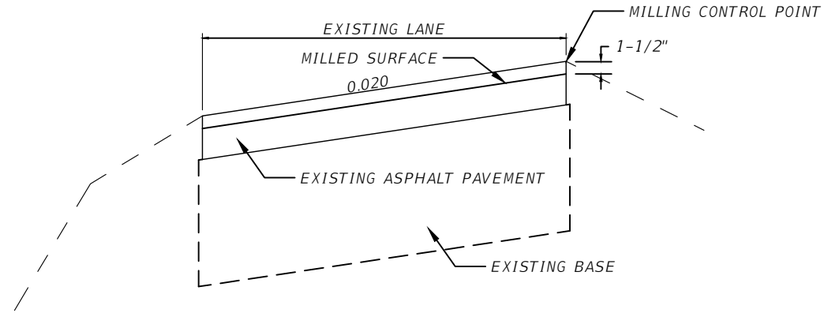
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TYPICAL SECTION (4)

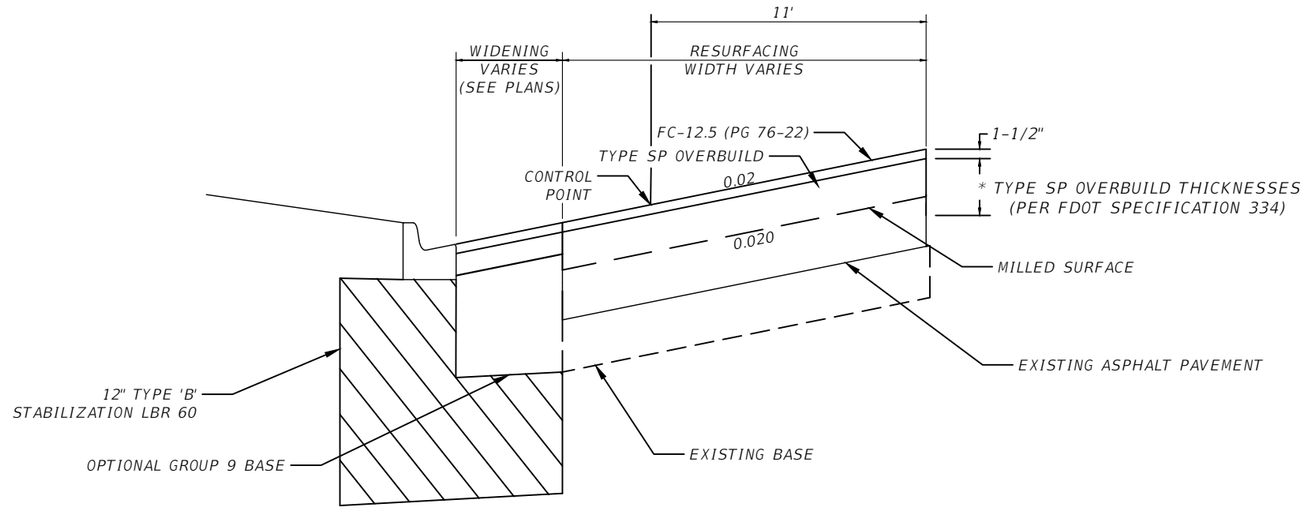
SHEET NO.: 12

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CONSTANT DEPTH MILLING DETAIL



CONSTANT DEPTH
OVERBUILD AND RESURFACING DETAIL

	CONTROL POINT		
STA.	EXIST. ELEV.	PROP. ELEV.	OVERBUILD * (IN.)
167+00	16.27	16.57	3.6
167+25	16.18	16.63	5.4
167+50	16.04	16.69	7.8
167+75	15.99	16.74	9

No.	REVISIONS	DATE	BY

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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TYPICAL SECTION (5)

SHEET NO.: 13

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SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
0102 60	Work Zone Sign	ED	1	166	166	1	169	169	335			
0102 74 1	Channelizing Device -TYPES I, II, DI, VP, DRUM, OR LCD	ED	1	461	461	1	283	283	744			
0102 74 2	Channelizing Device - Type III	ED	1	78	78	1	125	125	203			
0102 76	Arrow Board / Advance Warning Arrow Panel	ED	1	2	2	1	0	0	2			
0102 78	Reflective Pavement Marker, Temporary	EA		0	0		961	961	961			
0102 99	Portable Changeable Message Sign - Temporary	ED	1	2	2	1	0	0	2			
0102 107 1	Temporary Traffic Detection and Maintenance of Intersection	ED	100	0	0	100	2	200	200			
710-111-01	Painted Pavement Markings. Standard, White, Solid, 6"	GM		0.28	0.28		3.06	3.06	3.34			
710-111-24	Painted Pavement Markings. Standard, White, Solid for Diagnal or Chevron, 18"	LF		97.78	97.78		0	0	97.78			
710-111-25	Painted Pavement Markings. Standard, White, Solid for Stop Line or Crosswalk, 24"	LF		0	0		128.07	128.07	128.07			
710-11-131	Painted Pavement Markings, Standard, White, Skip, 10-30 or 3-9 Skip, 6" Wide	GM		0	0		52.79	52.79	52.79			
710-11-160	Painted Pavement Markings, Standard, Message or Symbol	EA		0	0		2	2	2			
710-11-201	Painted Pavement Markings, Standard, Yellow, Solid, 6"	GM		0.48	0.48		54.89	54.89	55.37			
710-11-224	Painted Pavement Markings, Standard, Yellow Solid for Diagonal or Chevron, 18"	LF		399.5	399.5		280.71	280.71	680.21			

PAY ITEM NOTES

101-1 INCLUDES COST FOR ALL APPLICATION FEES TO SECURE PERMITS FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) IN ACCORDANCE WITH FLORIDA STATUTE (F.S. 62-621). PLEASE CALL THE NPDES STORM WATER NOTICES CENTER AT (866) 336-6312 OR (850) 297-1232 FOR CURRENT FEE SCHEDULE.

110-1-1 SHALL INCLUDE THE COST FOR COMPLETE REMOVAL OF EXISTING BASE.

110-5 & 110-6 INCLUDED IN PLANS FOR COST BASIS PURPOSES. ACTUAL QUANTITY WILL BE BASED ON CONDITIONS FOUND IN THE FIELD.

120-4 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SUITABILITY OF EXCAVATED MATERIAL FOR USE ON THE PROJECT IN ACCORDANCE WITH THE APPLICABLE STANDARD SPECIFICATIONS AND ROADWAY AND TRAFFIC DESIGN STANDARDS. THE CONTRACTOR SHALL ALSO CONSIDER THE SEQUENCE OF WORK AND MOT PHASING IN THE DETERMINATION OF THE AVAILABILITY OF THIS MATERIAL. ANY EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH SECTION 120-5.

430-174-118 WHERE SHOWN, PIPE PLUG IS INCIDENTAL TO PIPE COST.

570-1-1 IS THE QUANTITY FOR SEED/HYDROMULCH.

515-211 INCLUDE 8'-8" OF HANDRAIL ADJACENT TO ALL BACK OF SIDEWALK INLETS PER INDEX 282.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (1)

SHEET NO.: SQ-1

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SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS		SEDIMENT BASIN		SEDIMENT BASIN CLEANOUT		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 1		0104 7		0104 9		0104 10 3		0104 11		0104 12		0104 15		0104 18			
			SY		EA		EA		LF		LF		LF		EA		EA			
			P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
165+77.41 to 166+17.58	LT	2A88B							56.9											
166+68.88 to 170+73.11	LT	24DAA							655.0											
166+70.06 to 170+12.65	LT	2334D							354.2											
166+74.97 to 167+10.67	RT	240AF							53.2											
167+10.67 to 180+27.50	RT	23361							1316.8											
170+36.89 to 170+70.36	LT	31CEB							35.6											
170+66.43 to 172+53.94	LT	23355							187.5											
172+64.12 to 175+59.00	LT	233C9							299.9											
175+70.61 to 177+75.64	LT	233CB							205.0											
177+84.98 to 179+24.34	LT	228D7							139.4											
179+21.16 to 182+10.64	LT	2351E							300.5											
180+27.50 to 181+87.64	RT	23373							180.6											
182+35.66 to 189+75.94	LT	2351D							764.7											
182+35.78 to 186+03.00	RT	2358D							398.7											
186+12.75 to 187+14.38	RT	2358F							99.6											
187+23.01 to 188+18.68	RT	23591							93.7											
188+28.81 to 192+32.26	RT	2358B							399.8											
189+71.43 to 191+90.70	LT	235F3							227.8											
192+25.67 to 192+38.12	LT	2367B							19.0											
192+32.83 to 192+43.76	RT	2465A							46.3											
192+38.12 to 196+11.60	LT	2367A							362.1											
192+90.67 to 193+10.84	RT	236E6							31.9											
192+90.78 to 193+23.41	RT	236E5							124.1											
193+10.84 to 193+46.14	RT	236E7							37.0											
193+23.41 to 199+29.68	LT/RT	236ED							959.0											
193+46.14 to 195+15.15	RT	236E8							172.8											
195+15.15 to 196+37.15	RT	236E9							124.3											
196+11.60 to 196+20.60	LT	2367C							15.1											
196+37.15 to 196+83.02	RT	236EA							46.7											
196+83.02 to 197+39.74	RT	236EB							57.8											
197+39.74 to 197+90.21	RT	236EC							51.4											
212+15.15 to 212+15.24	LT/RT	237EC							135.0											
212+15.15 to 219+05.48	RT	237F9							717.1											
212+15.24 to 215+73.84	LT	237F5							369.6											
215+86.17 to 218+77.13	LT	237EB							286.6											
219+76.37 to 220+18.96	LT	23897							87.4											
220+03.95 to 220+20.01	LT	2387A							37.3											
220+18.96 to 223+19.19	LT	23898							312.7											
220+36.34 to 220+76.96	RT	238AF							62.4											
220+78.50 to 226+85.72	RT	238B0							598.1											
223+35.01 to 225+45.40	LT	238AE							213.8											
225+57.64 to 229+74.85	LT	23909							424.0											
226+85.13 to 226+85.72	RT	23913							13.0											
226+85.13 to 229+35.75	RT	23911							245.9											
229+62.81 to 231+28.12	RT	23915							165.0											
229+92.72 to 232+26.17	LT	23977							233.5											
231+35.09 to 232+05.28	RT	23986							70.2											
232+51.17 to 237+38.99	LT	2397A							487.8											
SUB-TOTAL:									12275.8											
PLAN TOTAL:									25889.4		444.3		75.5				120			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (2)

SHEET NO.: SQ-2

Mitch Johnson 2/7/2019 8:20:12 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

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SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.			SIDE	AREA ID	ARTIFICIAL COVERINGS 0104 1 SY		SEDIMENT BASIN 0104 7 EA		SEDIMENT BASIN CLEANOUT 0104 9 EA		SEDIMENT BARRIER 0104 10 3 LF		FLOATING TURBIDITY BARRIER 0104 11 LF		STAKED TURBIDITY BARRIER 0104 12 LF		SOIL TRACKING PREVENTION DEVICE 0104 15 EA		INLET PROTECTION SYSTEM 0104 18 EA		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
232+63.76	to	232+98.80	RT	239CC							50.2											
233+03.73	to	234+54.00	RT	239CD							150.3											
234+70.00	to	242+18.50	RT	23A2D							748.5											
237+38.99	to	239+60.25	LT	23AC1							249.6											
240+34.82	to	248+14.04	LT	23AD2							803.0											
242+30.50	to	242+98.57	RT	23A2F							68.1											
243+10.57	to	244+44.58	RT	23A31							134.0											
244+56.58	to	245+65.55	RT	23A33							109.0											
245+65.56	to	247+19.19	RT	239CF							153.6											
247+37.19	to	247+61.66	RT	23A35							24.5											
247+77.66	to	248+96.66	RT	23A37							119.0											
248+26.04	to	249+83.07	LT	23AD5							157.0											
248+96.66	to	249+28.91	RT	239D1							32.3											
248+96.66	to	248+96.66	RT	239D0							17.0											
249+40.91	to	250+45.63	RT	23A39							104.7											
249+95.07	to	253+95.49	LT	23AD7							411.4											
250+69.63	to	251+84.89	RT	23A3B							115.3											
251+96.33	to	252+51.00	RT	23A3D							54.7											
252+51.00	to	252+51.00	RT	239D2							17.0											
252+51.00	to	253+76.08	RT	239D3							125.1											
253+88.08	to	254+91.06	RT	23A3F							103.0											
253+95.45	to	253+95.49	LT	24DAC							9.5											
253+95.53	to	253+95.68	LT	308AF							46.0											
254+75.39	to	254+75.57	LT	308B0							32.4											
254+75.46	to	254+75.57	LT	24DAE							20.4											
254+75.46	to	258+83.38	LT	23AD3							421.4											
255+03.06	to	257+84.16	RT	23A40							280.3											
258+18.05	to	259+04.03	RT	290C2							85.0											
258+92.57	to	260+56.49	LT	23AD9							169.8											
259+02.03	to	261+83.43	RT	290C3							272.4											
260+70.24	to	261+56.75	LT	23ADB							89.6											
300+21.73	to	304+39.67	LT	255A0							417.9											
304+27.27	to	304+36.32	LT	30C2E							18.8											
304+51.41	to	305+26.55	LT	2559F							75.1											
304+54.69	to	304+63.89	LT	30C2F							17.4											
305+26.55	to	309+97.87	LT	2559E							443.5											
307+27.87	to	308+41.63	RT	23BFD							115.3											
308+47.86	to	311+38.90	RT	25ED9							440.9											
309+97.87	to	311+38.68	LT	2559D							141.6											
311+53.07	to	320+92.94	LT	255A2							958.8											
311+82.76	to	318+50.04	RT	23923							696.4											
317+76.08	to	321+33.95	RT	25600							663.2											
318+49.54	to	325+40.28	RT	24DB6							641.7											
321+05.74	to	325+65.62	LT	255A1							515.0											
414+64.69	to	416+47.35	LT	23C07							167.2											
416+56.66	to	417+27.04	LT	2829C							63.5											
417+27.04	to	417+97.40	LT	23C89							67.4											
417+97.40	to	417+97.40	LT	2829D							18.8											
SUB-TOTAL:											10636.5											

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

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CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (3)

SHEET NO.: SQ-3

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SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.			SIDE	AREA ID	ARTIFICIAL COVERINGS 0104 1 SY		SEDIMENT BASIN 0104 7 EA		SEDIMENT BASIN CLEANOUT 0104 9 EA		SEDIMENT BARRIER 0104 10 3 LF		FLOATING TURBIDITY BARRIER 0104 11 LF		STAKED TURBIDITY BARRIER 0104 12 LF		SOIL TRACKING PREVENTION DEVICE 0104 15 EA		INLET PROTECTION SYSTEM 0104 18 EA		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
416+56.66	to	417+27.04	LT								63											
417+27.04	to	417+97.40	LT								67											
500+85.11		502+35.99	LT								158											
501+11.68		501+33.58	RT								37											
501+35.14		502+01.54	RT								87											
502+01.54		502+42.04	RT								39											
502+65.12		503+60.04	RT								94											
502+84.56		504+47.72	LT								167											
503+60.04		503+84.66	RT								33											
503+89.85		504+20.39	RT								31											
908+13.56		910+77.06	RT								279											
910+89.06		912+19.00	RT								130											
912+32.76		916+26.06	RT								393											
916+25.92		916+26.06	RT								55											
916+65.42		917+03.72	RT								68											
917+03.72		924+86.86	RT								783											
917+93.14		918+55.71	LT								63											
917+97.41		917+97.41	LT								19											
918+55.71		921+03.73	LT								248											
920+57.54		920+69.54	LT								30											
920+72.26		920+82.77	LT								42											
920+87.58		920+99.53	LT								30											
921+45.57		925+00.06	LT								354											
922+77.03		922+83.39	LT								22											
199+80.89	to	200+19.08	RT										47.9									
199+82.56	to	200+18.63	LT/RT										182.6									
211+17.22	to	211+68.18	LT/RT										217.2									
191+79.25	to	191+84.02	LT												24.8							
232+26.17	to	232+51.17	LT												25.0							
300+63.83	to	300+69.50	RT												25.7							
0+00.00	to	0+00.00	RT																1			
166+67.02	to	166+80.79	LT																1			
167+28.53	to	167+44.53	RT																1			
168+24.42	to	168+35.09	RT																1			
168+93.34	to	169+09.34	RT																1			
168+95.60	to	169+11.60	LT																1			
171+43.03	to	171+59.03	LT																1			
171+44.02	to	171+60.02	RT																1			
172+44.66	to	172+55.33	RT																1			
172+87.33	to	173+11.93	LT																1			
174+44.83	to	174+55.50	RT																1			
174+91.89	to	175+07.89	RT																1			
174+92.13	to	175+08.13	LT																1			
176+03.82	to	176+14.49	LT																1			
176+59.61	to	176+70.28	RT																1			
177+50.03	to	177+60.70	LT																1			
178+06.26	to	178+22.26	LT																1			
SUB-TOTAL:											3294		447.7		75.5				17			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

SUMMARY OF QUANTITIES (4)

SHEET NO. SQ-4

Floyd, Cindy 6/26/2019 11:19:11 AM

S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS		SEDIMENT BASIN		SEDIMENT BASIN CLEANOUT		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 1		0104 7		0104 9		0104 10 3		0104 11		0104 12		0104 15		0104 18			
			SY		EA		EA		LF		LF		LF		EA		EA			
			P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
178+06.92 to 178+22.92	RT																1			
179+21.69 to 179+32.36	RT																1			
179+44.30 to 179+54.97	LT																1			
180+31.70 to 180+47.70	RT																1			
180+32.14 to 180+48.14	LT																1			
180+94.54 to 181+05.21	LT																1			
181+62.32 to 181+78.09	RT																1			
182+30.27 to 182+43.15	RT																1			
182+43.10 to 182+56.19	RT																1			
182+93.60 to 183+09.60	RT																1			
182+93.66 to 183+09.66	LT																1			
184+45.42 to 184+56.13	LT																1			
185+59.53 to 185+70.09	LT																1			
185+75.90 to 185+91.69	LT																1			
185+76.11 to 185+92.33	RT																1			
188+43.92 to 188+60.13	RT																1			
188+46.75 to 188+62.54	LT																1			
191+26.61 to 191+42.60	LT																1			
191+27.30 to 191+43.30	RT																1			
191+87.14 to 191+99.84	LT																1			
192+05.88 to 192+11.15	LT																1			
192+24.79 to 192+37.63	LT																1			
192+45.57 to 192+55.54	RT																1			
192+52.77 to 192+65.58	RT																1			
192+66.55 to 192+82.44	LT																1			
192+81.66 to 192+86.86	RT																1			
194+61.70 to 194+82.43	RT																1			
195+05.71 to 195+21.94	LT																1			
196+14.59 to 196+31.63	LT																1			
196+68.57 to 196+80.53	LT																1			
196+68.59 to 196+68.62	LT																1			
196+69.48 to 196+80.50	LT																1			
196+69.72 to 196+81.53	RT																1			
196+69.72 to 196+69.89	RT																1			
196+80.22 to 196+80.28	LT																1			
196+81.53 to 196+81.61	RT																1			
213+68.25 to 213+81.57	LT																1			
213+69.26 to 213+80.33	LT																1			
213+69.36 to 213+69.85	LT																1			
213+69.63 to 213+69.76	RT																1			
213+69.63 to 213+80.15	RT																1			
213+79.89 to 213+80.33	LT																1			
213+80.15 to 213+80.49	RT																1			
215+42.23 to 215+58.02	RT																1			
215+42.52 to 215+58.72	LT																1			
218+27.42 to 218+47.88	RT																1			
218+27.77 to 218+48.27	LT																1			
220+39.74 to 220+55.74	RT																1			
SUB-TOTAL:																	48			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (5)

SHEET NO.: SQ-5

Mitch Johnson 2/7/2019 8:21:09 AM

J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23004, F.A.C.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	ARTIFICIAL COVERINGS		SEDIMENT BASIN		SEDIMENT BASIN CLEANOUT		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 1		0104 7		0104 9		0104 10 3		0104 11		0104 12		0104 15		0104 18			
			SY		EA		EA		LF		LF		LF		EA		EA			
			P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
220+41.15 to 220+57.15	LT																1			
222+01.53 to 222+16.81	LT																1			
222+01.61 to 222+17.77	RT																1			
224+42.93 to 224+59.09	RT																1			
224+44.13 to 224+59.98	LT																1			
226+92.82 to 227+08.98	RT																1			
226+93.22 to 227+09.07	LT																1			
230+11.95 to 230+27.95	LT																1			
230+12.62 to 230+28.23	RT																1			
232+93.36 to 233+09.36	LT																1			
232+94.59 to 233+10.59	RT																1			
235+89.60 to 236+05.60	RT																1			
235+90.44 to 236+06.44	LT																1			
237+84.07 to 238+00.07	LT																1			
237+84.23 to 238+00.23	RT																1			
240+42.95 to 240+58.95	RT																1			
240+43.68 to 240+59.68	RT																1			
242+69.66 to 242+80.49	RT																1			
243+96.03 to 244+12.03	LT																1			
243+96.08 to 244+12.08	RT																1			
245+59.60 to 245+70.43	RT																1			
246+88.06 to 247+04.06	RT																1			
246+88.61 to 247+04.61	LT																1			
247+94.29 to 248+05.12	RT																1			
249+60.56 to 249+71.39	RT																1			
250+16.56 to 250+32.56	RT																1			
250+31.91 to 250+47.91	LT																1			
250+80.72 to 250+91.55	RT																1			
252+59.79 to 252+70.61	RT																1			
253+33.23 to 253+49.23	RT																1			
253+33.71 to 253+49.71	LT																1			
254+03.21 to 254+14.03	LT																1			
255+24.95 to 255+35.78	RT																1			
256+32.81 to 256+48.31	LT																1			
256+33.69 to 256+49.69	RT																1			
258+49.35 to 258+60.34	RT																1			
259+03.58 to 259+19.92	RT																1			
300+29.70 to 300+40.38	LT																1			
300+65.28 to 300+85.84	LT																1			
300+69.41 to 300+80.37	LT																1			
305+91.51 to 306+07.97	LT																1			
308+91.82 to 309+08.28	LT																1			
313+09.73 to 313+30.84	LT																1			
316+09.73 to 316+25.73	LT																1			
318+10.36 to 318+30.92	LT																1			
319+45.03 to 319+60.62	LT																1			
322+24.79 to 322+40.15	LT																1			
325+26.68 to 325+39.31	RT																1			
325+30.17 to 325+50.41	LT																1			
325+79.97 to 325+93.73	LT																1			
501+17.03 to 501+37.69	RT																1			
501+19.61 to 501+35.32	LT																1			
906+51.70 to 906+67.69	LT																1			
920+72.26 to 920+82.77	LT																1			
922+54.63 to 922+65.13	LT																1			
SUB-TOTAL:																	55			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (6)

SHEET NO.: SQ-6

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SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1 AREA ID	CYCLES	AREA AC/CYCLE	TOTAL AC P	TOTAL AC F	MOWING 0107 2 AREA ID	CYCLES	AREA AC/CYCLE	TOTAL AC P	TOTAL AC F	DESIGN NOTES	CONSTRUCTION REMARKS
ALL	166+66.70	to	170+14.83	LT	30	30						12A806E	1	0.02	0.02			
ALL	166+68.70	to	170+14.81	LT	30	30						135A8ED	1	0.10	0.10			
ALL	167+05.98	to	170+13.72	LT	30	30						12A2AEF	1	0.02	0.02			
ALL	167+23.38	to	173+50.00	RT	30	30						12A274F	1	0.03	0.03			
ALL	167+23.40	to	171+40.03	RT	30	30						12A2765	1	0.12	0.12			
ALL	167+23.59	to	173+50.00	RT	30	30						33F7D	1	0.04	0.04			
ALL	170+34.76	to	171+40.00	LT	30	30						12AAF8C	1	0.02	0.02			
ALL	170+34.83	to	172+54.27	LT	30	30						13365CB	1	0.01	0.01			
ALL	170+36.06	to	172+39.96	LT	30	30						1336F03	1	0.01	0.01			
ALL	171+40.00	to	172+54.51	LT	30	30						13378AE	1	0.03	0.03			
ALL	171+40.01	to	180+50.00	RT	30	30						135C435	1	0.25	0.25			
ALL	171+40.51	to	173+50.00	LT/RT	30	30						12A483A	1	0.09	0.09			
ALL	172+66.24	to	173+50.00	LT	30	30						13378D7	1	0.00	0.00			
ALL	172+80.12	to	173+50.00	LT	30	30						13378B3	1	0.00	0.00			
ALL	173+50.00	to	175+61.49	LT	30	30						12AF38F	1	0.04	0.04			
ALL	173+50.00	to	175+61.34	LT	30	30						12ABB85	1	0.01	0.01			
ALL	173+50.00	to	180+50.00	RT	30	30						12A939C	1	0.03	0.03			
ALL	173+50.00	to	175+61.46	LT	30	30						12AD7CC	1	0.01	0.01			
ALL	173+50.00	to	179+00.00	LT/RT	30	30						12ABB3E	1	0.24	0.24			
ALL	173+50.00	to	180+27.76	RT	30	30						12A9351	1	0.05	0.05			
ALL	175+73.46	to	177+77.60	LT	30	30						12B0615	1	0.04	0.04			
ALL	175+73.46	to	177+77.60	LT	30	30						12AFCC6	1	0.01	0.01			
ALL	175+73.58	to	177+77.53	LT	30	30						33D8A	1	0.01	0.01			
ALL	177+89.60	to	180+50.00	LT	30	30						12B062D	1	0.01	0.01			
ALL	177+89.62	to	180+50.00	LT	30	30						33DBF	1	0.02	0.02			
ALL	180+50.00	to	182+08.64	LT	30	30						135B650	1	0.04	0.04			
ALL	180+50.00	to	181+88.68	RT	30	30						12B6D51	1	0.03	0.03			
ALL	180+50.00	to	181+82.63	RT	30	30						12B63FF	1	0.01	0.01			
ALL	180+50.00	to	182+07.19	LT	30	30						12B769D	1	0.02	0.02			
ALL	182+28.03	to	185+97.30	RT	30	30						12BC2D1	1	0.03	0.03			
ALL	182+32.67	to	186+03.77	RT	30	30						12BD9D0	1	0.02	0.02			
ALL	182+34.67	to	186+03.77	RT	30	30						135D25C	1	0.10	0.10			
ALL	182+37.26	to	187+50.00	LT	30	30						12C1226	1	0.02	0.02			
ALL	182+39.26	to	187+50.00	LT	30	30						12C1B74	1	0.11	0.11			
ALL	182+48.86	to	187+50.00	LT	30	30						340DC	1	0.03	0.03			
ALL	185+33.00	to	187+50.00	LT/RT	30	30						32746	1	0.09	0.09			
ALL	186+15.98	to	187+14.66	RT	30	30						12BECAB	1	0.00	0.00			
ALL	186+15.99	to	187+14.65	RT	30	30						12BD9C3	1	0.02	0.02			
ALL	186+22.12	to	187+08.41	RT	30	30						340B2	1	0.01	0.01			
ALL	187+26.87	to	187+50.00	RT	30	30						7A4057	1	0.00	0.00			
ALL	187+26.87	to	187+50.00	RT	30	30						12BF5CA	1	0.00	0.00			
ALL	187+33.01	to	187+50.00	RT	30	30						3412C	1	0.00	0.00			
ALL	187+50.00	to	188+19.51	RT	30	30						7A4071	1	0.01	0.01			
ALL	187+50.00	to	192+07.07	LT	30	30						12C4162	1	0.11	0.11			
ALL	187+50.00	to	192+02.72	LT	30	30						12C40E7	1	0.02	0.02			
ALL	187+50.00	to	188+19.51	RT	30	30						12C4A83	1	0.00	0.00			
ALL	187+50.00	to	191+94.06	LT	30	30						12C403C	1	0.04	0.04			
						SUB-TOTAL:								1.93	1.93			
						TOTAL:				17.83				9.34	9.34			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (7)

SHEET NO.: SQ-7

Mitch Johnson 2/7/2019 8:21:47 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1 AREA ID	LITTER REMOVAL 0107 1 CYCLES	LITTER REMOVAL 0107 1 AREA AC/CYCLE	LITTER REMOVAL 0107 1 AREA TOTAL AC P	LITTER REMOVAL 0107 1 AREA TOTAL AC F	MOWING 0107 2 AREA ID	MOWING 0107 2 CYCLES	MOWING 0107 2 AREA AC/CYCLE	MOWING 0107 2 AREA TOTAL AC P	MOWING 0107 2 AREA TOTAL AC F	DESIGN NOTES	CONSTRUCTION REMARKS
ALL	187+50.00	to	188+13.33	RT	30	30						34170	1	0.00	0.00			
ALL	187+50.00	to	189+15.00	LT/RT	30	30						32750	1	0.06	0.06			
ALL	188+31.72	to	192+40.10	RT	30	30						12C5409	1	0.02	0.02			
ALL	188+31.73	to	192+48.99	RT	30	30						12C5DFE	1	0.08	0.08			
ALL	188+38.39	to	192+27.39	RT	30	30						3429F	1	0.03	0.03			
ALL	192+44.07	to	194+50.00	LT	30	30						12C8D4B	1	0.02	0.02			
ALL	192+47.49	to	194+50.00	LT	30	30						12C8D06	1	0.01	0.01			
ALL	192+65.63	to	194+50.00	LT	30	30						342C4	1	0.01	0.01			
ALL	193+02.83	to	194+50.00	RT	30	30						342F7	1	0.01	0.01			
ALL	193+03.80	to	194+50.00	RT	30	30						12C70BA	1	0.01	0.01			
ALL	193+05.33	to	194+50.00	RT	30	30						135E003	1	0.04	0.04			
ALL	194+49.99	to	195+21.27	LT	30	30						12CB2F6	1	0.00	0.00			
ALL	194+50.00	to	197+37.85	LT	30	30						12CC6A4	1	0.03	0.03			
ALL	194+50.00	to	197+12.98	RT	30	30						12CA9D5	1	0.10	0.10			
ALL	194+50.00	to	195+59.93	RT	30	30						12C9691	1	0.01	0.01			
ALL	194+50.00	to	197+37.04	LT	30	30						12CBCF6	1	0.01	0.01			
ALL	194+50.00	to	197+13.34	RT	30	30						12CA04E	1	0.01	0.01			
ALL	212+68.75	to	215+21.06	RT	30	30						12CECC3	1	0.13	0.13			
ALL	212+68.79	to	215+19.26	RT	30	30						12CE30C	1	0.01	0.01			
ALL	213+06.15	to	215+09.62	LT	30	30						12D1CFB	1	0.01	0.01			
ALL	213+06.67	to	215+09.38	LT	30	30						12D266C	1	0.07	0.07			
ALL	214+00.00	to	215+10.85	LT	30	30						12D0062	1	0.01	0.01			
ALL	214+00.00	to	215+18.63	RT	30	30						12CCFF5	1	0.01	0.01			
ALL	215+08.22	to	215+50.00	LT	30	30						12DD76F	1	0.01	0.01			
ALL	215+09.45	to	215+50.00	LT	30	30						12DCE3F	1	0.00	0.00			
ALL	215+10.58	to	215+50.00	LT	30	30						12DBBC0	1	0.00	0.00			
ALL	215+18.38	to	215+50.00	RT	30	30						12D2F92	1	0.00	0.00			
ALL	215+19.09	to	215+50.00	RT	30	30						12DA040	1	0.00	0.00			
ALL	215+19.27	to	215+50.00	RT	30	30						12DA970	1	0.01	0.01			
ALL	215+49.99	to	218+88.19	RT	30	30						12E91ED	1	0.09	0.09			
ALL	215+50.00	to	215+73.88	LT	30	30						12E7E0C	1	0.01	0.01			
ALL	215+50.00	to	218+59.18	RT	30	30						34403	1	0.02	0.02			
ALL	215+50.00	to	218+88.19	RT	30	30						12E87D9	1	0.02	0.02			
ALL	215+50.00	to	215+73.88	LT	30	30						12E0590	1	0.00	0.00			
ALL	215+50.00	to	215+73.90	LT	30	30						12DF304	1	0.00	0.00			
ALL	215+86.10	to	218+57.29	LT	30	30						34470	1	0.02	0.02			
ALL	215+86.11	to	218+88.19	LT	30	30						12E9C3B	1	0.01	0.01			
ALL	215+86.12	to	218+86.17	LT	30	30						12E9CA6	1	0.09	0.09			
ALL	218+75.42	to	218+87.71	LT	30	30						135F319	1	0.00	0.00			
ALL	218+86.22	to	218+89.70	LT	30	30						1329E3B	1	0.00	0.00			
ALL	219+66.16	to	219+79.64	LT	30	30						132BAA9	1	0.00	0.00			
ALL	219+67.92	to	219+81.58	LT	30	30						132B187	1	0.00	0.00			
ALL	219+79.41	to	222+50.87	LT	30	30						12EA7CF	1	0.01	0.01			
ALL	219+79.69	to	222+50.93	LT	30	30						12EA7FF	1	0.03	0.03			
ALL	219+93.08	to	222+49.22	RT	30	30						12EA6AF	1	0.01	0.01			
	SUB-TOTAL:													1.03	1.03			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (8)

SHEET NO.: SQ-8

Mitch Johnson 2/7/2019 8:22:06 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23004, F.A.C.

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
							AREA ID	CYCLES	AREA AC/CYCLE	AREA TOTAL AC P	AREA TOTAL AC F	AREA ID	CYCLES	AREA AC/CYCLE	AREA TOTAL AC P	AREA TOTAL AC F		
ALL	219+95.08	to	222+49.19	RT	30	30						12EA744	1	0.06	0.06			
ALL	220+22.98	to	222+50.68	LT	30	30						12EA777	1	0.02	0.02			
ALL	220+27.12	to	222+49.35	RT	30	30						12EA64C	1	0.02	0.02			
ALL	222+49.05	to	229+33.35	RT	30	30						12EB308	1	0.14	0.14			
ALL	222+49.19	to	229+29.50	RT	30	30						12EB2AB	1	0.03	0.03			
ALL	222+49.30	to	229+21.81	RT	30	30						34686	1	0.05	0.05			
ALL	222+50.64	to	223+19.45	LT	30	30						344C1	1	0.00	0.00			
ALL	222+50.84	to	223+19.53	LT	30	30						12EC55B	1	0.00	0.00			
ALL	222+50.87	to	223+19.53	LT	30	30						12ECF07	1	0.01	0.01			
ALL	223+35.03	to	225+45.41	LT	30	30						12ED873	1	0.04	0.04			
ALL	223+35.03	to	225+45.39	LT	30	30						12ECF1E	1	0.01	0.01			
ALL	223+35.13	to	225+45.32	LT	30	30						34589	1	0.01	0.01			
ALL	223+36.00	to	229+49.94	LT/RT	30	30						327E5	1	0.27	0.27			
ALL	225+57.21	to	229+50.36	LT	30	30						12EE1B3	1	0.08	0.08			
ALL	225+57.22	to	229+50.35	LT	30	30						12ED886	1	0.02	0.02			
ALL	225+57.58	to	229+50.27	LT	30	30						34676	1	0.03	0.03			
ALL	229+49.91	to	231+87.13	LT/RT	30	30						328AE	1	0.10	0.10			
ALL	229+50.26	to	229+74.69	LT	30	30						346AE	1	0.00	0.00			
ALL	229+50.34	to	229+74.74	LT	30	30						12EF402	1	0.00	0.00			
ALL	229+50.35	to	229+74.74	LT	30	30						12EFD30	1	0.01	0.01			
ALL	229+62.70	to	232+08.17	RT	30	30						12FCD3E	1	0.05	0.05			
ALL	229+66.42	to	232+02.55	RT	30	30						12FC3D5	1	0.01	0.01			
ALL	229+74.07	to	231+92.54	RT	30	30						12FCD64	1	0.01	0.01			
ALL	229+92.72	to	236+50.00	LT	30	30						12FD6B2	1	0.15	0.15			
ALL	229+92.72	to	236+50.01	LT	30	30						12FD6A0	1	0.03	0.03			
ALL	229+92.89	to	236+50.00	LT	30	30						346E7	1	0.04	0.04			
ALL	232+55.32	to	234+54.00	RT	30	30						12F45E7	1	0.01	0.01			
ALL	232+57.29	to	234+54.00	RT	30	30						12FB9E5	1	0.04	0.04			
ALL	232+69.83	to	234+47.96	RT	30	30						34802	1	0.01	0.01			
ALL	234+70.00	to	236+49.99	RT	30	30						7A48DB	1	0.04	0.04			
ALL	234+70.00	to	236+49.99	RT	30	30						12FBA01	1	0.01	0.01			
ALL	234+76.07	to	236+50.00	RT	30	30						34871	1	0.01	0.01			
ALL	235+05.00	to	236+50.00	LT/RT	30	30						328BE	1	0.06	0.06			
ALL	236+49.84	to	237+35.01	LT/RT	30	30						328C8	1	0.03	0.03			
ALL	236+49.99	to	242+18.50	RT	30	30						7A4BDD	1	0.12	0.12			
ALL	236+49.99	to	242+18.50	RT	30	30						130056C	1	0.03	0.03			
ALL	236+50.00	to	239+79.20	LT	30	30						348A5	1	0.03	0.03			
ALL	236+50.00	to	242+11.93	RT	30	30						349B3	1	0.04	0.04			
ALL	236+50.01	to	239+84.64	LT	30	30						12FE99F	1	0.07	0.07			
ALL	236+50.01	to	239+84.03	LT	30	30						12FE025	1	0.02	0.02			
ALL	240+10.47	to	243+50.01	LT	30	30						130055F	1	0.07	0.07			
ALL	240+14.00	to	243+50.01	LT	30	30						12FFC1F	1	0.02	0.02			
ALL	240+27.87	to	243+50.07	LT	30	30						34929	1	0.02	0.02			
ALL	240+30.33	to	243+50.00	LT/RT	30	30						328DC	1	0.14	0.14			
ALL	242+30.50	to	242+98.57	RT	30	30						7A4AD1	1	0.01	0.01			
						SUB-TOTAL:								1.96	1.96			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (9)

SHEET NO.: SQ-9

Mitch Johnson 2/7/2019 8:22:25 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
							AREA ID	CYCLES	AREA			AREA ID	CYCLES	AREA				
									AC/CYCLE	TOTAL AC				AC/CYCLE	TOTAL AC			
										P	F				P	F		
ALL	242+30.50	to	242+98.57	RT	30	30						1300EB4	1	0.00	0.00			
ALL	242+36.54	to	242+92.50	RT	30	30						349EB	1	0.00	0.00			
ALL	243+10.57	to	243+49.99	RT	30	30						7A4A38	1	0.01	0.01			
ALL	243+10.58	to	243+49.99	RT	30	30						1306A55	1	0.00	0.00			
ALL	243+16.66	to	243+50.00	RT	30	30						34A28	1	0.00	0.00			
ALL	243+49.99	to	244+44.57	RT	30	30						1307DD2	1	0.02	0.02			
ALL	243+50.00	to	244+44.58	RT	30	30						1307464	1	0.00	0.00			
ALL	243+50.00	to	248+14.02	LT	30	30						34BC6	1	0.03	0.03			
ALL	243+50.00	to	244+38.58	RT	30	30						34B07	1	0.01	0.01			
ALL	243+50.01	to	248+14.04	LT	30	30						130F633	1	0.10	0.10			
ALL	243+50.01	to	248+14.04	LT	30	30						130F625	1	0.02	0.02			
ALL	244+56.58	to	247+19.19	RT	30	30						7A54A7	1	0.05	0.05			
ALL	244+56.58	to	247+19.19	RT	30	30						1307DDF	1	0.01	0.01			
ALL	244+62.62	to	247+13.11	RT	30	30						34E8A	1	0.02	0.02			
ALL	247+37.19	to	247+61.66	RT	30	30						7A5540	1	0.01	0.01			
ALL	247+43.22	to	247+55.55	RT	30	30						36367	1	0.00	0.00			
ALL	247+77.66	to	249+28.91	RT	30	30						1309024	1	0.01	0.01			
ALL	247+77.67	to	249+28.91	RT	30	30						7A5600	1	0.03	0.03			
ALL	247+83.69	to	249+22.80	RT	30	30						34EB5	1	0.01	0.01			
ALL	248+26.04	to	249+79.48	LT	30	30						130F650	1	0.03	0.03			
ALL	248+26.04	to	249+79.48	LT	30	30						130F63A	1	0.01	0.01			
ALL	248+26.08	to	249+79.46	LT	30	30						34C23	1	0.01	0.01			
ALL	249+40.91	to	250+45.63	RT	30	30						7A5695	1	0.02	0.02			
ALL	249+40.91	to	250+45.63	RT	30	30						130E2D6	1	0.00	0.00			
ALL	249+46.94	to	250+39.55	RT	30	30						34FE0	1	0.01	0.01			
ALL	249+91.48	to	250+50.01	LT	30	30						13108AB	1	0.01	0.01			
ALL	249+91.48	to	250+50.01	LT	30	30						130FF7C	1	0.00	0.00			
ALL	249+91.57	to	250+50.00	LT	30	30						34C7A	1	0.00	0.00			
ALL	250+50.00	to	254+17.28	LT	30	30						34D03	1	0.04	0.04			
ALL	250+50.00	to	251+14.00	LT/RT	30	30						328EF	1	0.02	0.02			
ALL	250+50.01	to	254+22.82	LT	30	30						1311BC6	1	0.08	0.08			
ALL	250+50.01	to	254+22.36	LT	30	30						1311206	1	0.02	0.02			
ALL	250+69.63	to	251+84.89	RT	30	30						7A5744	1	0.02	0.02			
ALL	250+69.63	to	251+84.89	RT	30	30						13124FE	1	0.01	0.01			
ALL	250+75.68	to	251+78.77	RT	30	30						3508C	1	0.01	0.01			
ALL	251+96.33	to	253+76.08	RT	30	30						7A591E	1	0.04	0.04			
ALL	251+96.33	to	253+76.08	RT	30	30						1312535	1	0.01	0.01			
ALL	252+02.39	to	253+70.03	RT	30	30						350EA	1	0.01	0.01			
ALL	253+88.08	to	254+91.06	RT	30	30						131253C	1	0.00	0.00			
ALL	253+94.09	to	254+85.02	RT	30	30						351F0	1	0.01	0.01			
ALL	254+47.51	to	257+53.93	LT	30	30						1312E8F	1	0.09	0.09			
ALL	254+52.26	to	257+53.29	LT	30	30						1312E7A	1	0.01	0.01			
ALL	254+66.20	to	257+52.58	LT	30	30						35410	1	0.02	0.02			
ALL	255+03.06	to	257+46.98	RT	30	30						7A5AC7	1	0.05	0.05			
ALL	255+03.06	to	257+47.11	RT	30	30						13137F1	1	0.01	0.01			
ALL	255+09.07	to	257+47.59	RT	30	30						353B6	1	0.02	0.02			
	SUB-TOTAL:													0.90	0.90			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (10)

SHEET NO.: SQ-10

Mitch Johnson 2/7/2019 8:22:44 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1 AREA ID	LITTER REMOVAL 0107 1 CYCLES	LITTER REMOVAL 0107 1 AREA AC/CYCLE	LITTER REMOVAL 0107 1 AREA TOTAL AC P	LITTER REMOVAL 0107 1 AREA TOTAL AC F	MOWING 0107 2 AREA ID	MOWING 0107 2 CYCLES	MOWING 0107 2 AREA AC/CYCLE	MOWING 0107 2 AREA TOTAL AC P	MOWING 0107 2 AREA TOTAL AC F	DESIGN NOTES	CONSTRUCTION REMARKS
ALL	255+30.33	to	257+50.54	LT/RT	30	30						32909	1	0.10	0.10			
ALL	257+46.47	to	257+82.66	RT	30	30						7A5C5C	1	0.01	0.01			
ALL	257+47.00	to	257+76.16	RT	30	30						131544D	1	0.00	0.00			
ALL	257+47.41	to	257+65.88	RT	30	30						1314AD8	1	0.00	0.00			
ALL	257+49.47	to	259+09.66	LT/RT	30	30						32914	1	0.07	0.07			
ALL	257+52.41	to	258+84.11	LT	30	30						354DE	1	0.01	0.01			
ALL	257+53.18	to	258+84.18	LT	30	30						1315DF4	1	0.01	0.01			
ALL	257+53.32	to	258+84.21	LT	30	30						13167BC	1	0.03	0.03			
ALL	258+22.09	to	261+87.26	RT	30	30						131D80F	1	0.03	0.03			
ALL	258+25.29	to	261+87.39	RT	30	30						131BF04	1	0.02	0.02			
ALL	258+35.62	to	260+00.00	RT	30	30						131F6C8	1	0.01	0.01			
ALL	258+95.82	to	260+63.03	LT	30	30						13171FB	1	0.04	0.04			
ALL	258+95.82	to	260+63.71	LT	30	30						1316807	1	0.01	0.01			
ALL	258+95.90	to	260+00.00	LT	30	30						35728	1	0.01	0.01			
ALL	260+71.16	to	261+41.14	LT	30	30						13197C3	1	0.02	0.02			
ALL	260+76.14	to	261+41.21	LT	30	30						13184E2	1	0.00	0.00			
ALL	300+30.71	to	300+83.82	LT	30	30						134554A	1	0.00	0.00			
ALL	300+30.74	to	304+04.42	LT	30	30						134AD89	1	0.16	0.16			
ALL	300+32.88	to	300+83.73	LT	30	30						133F644	1	0.02	0.02			
ALL	300+70.00	to	304+31.65	RT	30	30						134224D	1	0.04	0.04			
ALL	300+80.40	to	304+04.39	RT	30	30						1347F1F	1	0.13	0.13			
ALL	300+83.33	to	302+61.60	LT	30	30						13494A7	1	0.05	0.05			
ALL	300+83.81	to	302+61.62	LT	30	30						134A087	1	0.00	0.00			
ALL	302+61.38	to	304+21.53	LT	30	30						133F638	1	0.02	0.02			
ALL	302+61.62	to	304+29.09	LT	30	30						1345586	1	0.00	0.00			
ALL	304+69.94	to	307+00.00	LT	30	30						134ADF6	1	0.10	0.10			
ALL	304+69.94	to	307+00.00	LT	30	30						134ADC0	1	0.01	0.01			
ALL	304+70.39	to	307+00.00	LT	30	30						1344098	1	0.02	0.02			
ALL	304+86.00	to	307+14.28	RT	30	30						1347F70	1	0.08	0.08			
ALL	304+87.74	to	307+00.00	RT	30	30						1345532	1	0.02	0.02			
ALL	307+00.00	to	311+38.75	LT	30	30						134BA69	1	0.17	0.17			
ALL	307+00.00	to	311+38.75	LT	30	30						134AE0C	1	0.01	0.01			
ALL	307+00.00	to	311+34.18	LT	30	30						1347CEF	1	0.04	0.04			
ALL	307+00.00	to	307+12.87	RT	30	30						1346167	1	0.00	0.00			
ALL	307+26.02	to	308+39.44	RT	30	30						1347F91	1	0.03	0.03			
ALL	307+27.36	to	308+38.06	RT	30	30						1346178	1	0.01	0.01			
ALL	308+51.20	to	311+00.00	RT	30	30						1348B32	1	0.09	0.09			
ALL	308+52.57	to	311+00.01	RT	30	30						1346BC1	1	0.03	0.03			
ALL	311+51.25	to	314+00.00	LT	30	30						134BA7F	1	0.07	0.07			
ALL	311+51.25	to	314+00.00	LT	30	30						134BA8E	1	0.01	0.01			
ALL	311+55.56	to	311+73.20	LT	30	30						3580B	1	0.00	0.00			
ALL	311+76.85	to	314+00.00	RT	30	30						13475A9	1	0.03	0.03			
ALL	311+77.53	to	314+00.00	LT	30	30						357E0	1	0.02	0.02			
ALL	311+89.11	to	314+00.00	RT	30	30						1348B54	1	0.07	0.07			
	SUB-TOTAL:													1.58	1.58			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (11)

SHEET NO.: SQ-11

Mitch Johnson 2/7/2019 8:23:03 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

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SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1 AREA ID	CYCLES	AREA AC/CYCLE	AREA TOTAL AC P	AREA TOTAL AC F	MOWING 0107 2 AREA ID	CYCLES	AREA AC/CYCLE	AREA TOTAL AC P	AREA TOTAL AC F	DESIGN NOTES	CONSTRUCTION REMARKS
ALL	314+00.00	to	321+00.00	RT	30	30						134DB33	1	0.28	0.28			
ALL	314+00.00	to	321+00.00	LT	30	30						134E9BC	1	0.58	0.58			
ALL	314+00.00	to	320+88.44	LT	30	30						134DD1D	1	0.02	0.02			
ALL	314+00.00	to	320+82.68	LT	30	30						134DBD8	1	0.06	0.06			
ALL	314+00.00	to	321+00.00	RT	30	30						134C849	1	0.08	0.08			
ALL	321+00.00	to	325+61.98	RT	30	30						134F773	1	0.12	0.12			
ALL	321+00.00	to	325+62.04	RT	30	30						134F715	1	0.05	0.05			
ALL	321+03.71	to	326+00.92	LT	30	30						135195F	1	0.14	0.14			
ALL	321+10.96	to	326+01.93	LT	30	30						13506F3	1	0.01	0.01			
ALL	321+16.98	to	325+72.59	LT	30	30						134F851	1	0.04	0.04			
ALL	414+04.74	to	416+43.44	LT	30	30						135A401	1	0.03	0.03			
ALL	414+04.76	to	416+43.79	LT/RT	30	30						135A17F	1	0.09	0.09			
ALL	414+05.00	to	416+43.47	LT	30	30						135A37F	1	0.01	0.01			
ALL	414+10.43	to	416+69.37	RT	30	30						13595A4	1	0.15	0.15			
ALL	416+56.18	to	418+00.00	LT/RT	30	30						135A2ED	1	0.06	0.06			
ALL	416+56.53	to	416+88.48	LT	30	30						135A42A	1	0.00	0.00			
ALL	416+56.55	to	418+00.00	LT	30	30						135A4C6	1	0.04	0.04			
ALL	416+72.60	to	417+99.98	RT	30	30						135A0DA	1	0.06	0.06			
ALL	500+87.68	to	502+10.00	RT	30	30						1331C82	1	0.03	0.03			
ALL	500+97.37	to	502+09.99	LT	30	30						1332791	1	0.05	0.05			
ALL	501+05.66	to	502+10.00	RT	30	30						1328989	1	0.01	0.01			
ALL	502+10.00	to	502+41.32	RT	30	30						1333CBC	1	0.00	0.00			
ALL	502+65.90	to	504+20.00	RT	30	30						1333CC0	1	0.02	0.02			
ALL	502+76.27	to	504+20.00	LT	30	30						133467C	1	0.01	0.01			
	SUB-TOTAL:													1.95	1.95			

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

SUMMARY OF QUANTITIES (12)

SHEET NO. SQ-12

Mitch Johnson 2/7/2019 8:23:22 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.			SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
							AREA ID	CYCLES	AREA			AREA ID	CYCLES	AREA				
									AC/CYCLE	TOTAL AC				AC/CYCLE	TOTAL AC			
										P	F				P	F		
ALL	166+51.70	to	182+10.64	LT	30	30	91D12	1	2.20	2.20								
ALL	166+85.00	to	181+98.73	RT	30	30	90F00	1	0.81	0.81								
ALL	182+35.64	to	192+04.50	LT	30	30	96E14	1	0.65	0.65								
ALL	182+22.73	to	192+63.94	RT	30	30	97C19	1	0.55	0.55								
ALL	192+92.29	to	197+14.78	RT	30	30	98A06	1	1.33	1.33								
ALL	192+55.53	to	197+58.58	LT	30	30	98A51	1	0.81	0.81								
ALL	212+58.68	to	219+23.96	RT	30	30	9992A	1	0.44	0.44								
ALL	213+01.85	to	219+09.03	LT	30	30	98AF8	1	0.56	0.56								
ALL	219+49.01	to	239+86.54	LT	30	30	AE315	1	1.26	1.26								
ALL	219+80.29	to	229+35.84	RT	30	30	AE383	1	0.56	0.56								
ALL	229+60.20	to	232+10.00	RT	30	30	AE3D3	1	0.14	0.14								
ALL	232+50.35	to	257+85.15	RT	30	30	B0969	1	1.36	1.36								
ALL	240+06.61	to	254+24.91	LT	30	30	B1801	1	0.87	0.87								
ALL	254+45.27	to	260+00.00	LT	30	30	B269E	1	0.37	0.37								
ALL	258+16.68	to	260+00.00	RT	30	30	B34FD	1	0.08	0.08								
ALL	300+00.00	to	304+39.86	LT	30	30	B3539	1	0.36	0.36								
ALL	300+68.94	to	304+31.62	RT	30	30	BA3DB	1	0.22	0.22								
ALL	304+51.18	to	320+92.76	LT	30	30	B6462	1	1.36	1.36								
ALL	304+52.05	to	311+00.49	RT	30	30	B9778	1	0.92	0.92								
ALL	311+82.82	to	325+62.04	RT	30	30	B8A09	1	1.97	1.97								
ALL	321+05.17	to	325+67.34	LT	30	30	B74A1	1	0.27	0.27								
ALL	413+99.44	to	418+00.00	LT	30	30	BBB6C	1	0.27	0.27								
ALL	414+12.51	to	416+69.39	RT	30	30	BADA0	1	0.12	0.12								
ALL	416+72.51	to	418+00.00	RT	30	30	BBB99	1	0.05	0.05								
ALL	501+05.67	to	502+43.40	LT	30	30	BBC61	1	0.07	0.07								
ALL	501+05.62	to	504+20.00	RT	30	30	BBCB3	1	0.20	0.20								
ALL	502+77.06	to	504+20.00	LT	30	30	BBC81	1	0.06	0.06								
						SUB-TOTAL:			17.83	17.83								

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (13)

SHEET NO.: SQ-13

Mitch Johnson 2/7/2019 8:23:40 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.			SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)		QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0110 1 1	CLEARING AND GRUBBING	166+38.93	to	197+55.00	LT/RT	66A9D			LS	13.86				38			
		212+55.00	to	260+00.00	LT/RT	6BB61				15.27							
		300+70.00	to	326+10.00	LT/RT	69EE8				7.93							
		414+65.08	to	418+00.00	LT/RT	6C00C				0.67							
		500+55.00	to	502+10.00	LT/RT	6BB7E				0.37							
		502+10.00	to	504+10.00	RT	6A594				0.02							
		912+25.00	to	916+24.55	LT/RT	6C80E				0.19							
0110 4 10	REMOVAL OF EXISTING CONCRETE PAVEMENT	166+49.93	to	166+83.84	RT	712FB			SY			26.0		3983.0		CURB & GUTTER	
		168+68.83	to	170+44.52	LT/RT	71122						662.0				CONC. DRIVEWAY	
		172+50.00	to	172+85.20	LT/RT	7113F						99.0				CONC. DRIVEWAY	
		175+47.63	to	175+74.76	LT/RT	711A2						106.0				CONC. DRIVEWAY	
		177+71.30	to	177+88.78	LT/RT	71206						106.0				CONC. DRIVEWAY	
		179+80.00	to	181+98.91	RT	75F1D						56.0				CURB & GUTTER	
		182+05.35	to	182+41.23	LT/RT	7120F						147.0				CONC. DRIVEWAY	
		182+22.88	to	182+47.92	RT	75F21						15.0				CURB & GUTTER	
		185+94.48	to	186+20.24	RT	71217						20.0				CONC. DRIVEWAY	
		187+98.21	to	188+36.31	RT	71236						120.0				CONC. DRIVEWAY	
		191+25.29	to	191+64.13	LT/RT	71241						23.0				CONC. DRIVEWAY	
		192+08.56	to	192+30.98	LT	75F43						6.0				CURB & GUTTER	
		192+08.64	to	192+34.27	LT	75F3A						8.0				CURB & GUTTER	
		192+55.90	to	192+81+10	LT	75F36						9.0				CURB & GUTTER	
		192+59.34	to	192+81.42	LT	75F3E						6.0				CURB & GUTTER	
		194+91.11	to	195+08.29	LT	71249						13.0				CONC. DRIVEWAY	
		196+32.23	to	196+57.34	LT	75F58						9.0				CURB & GUTTER	
		196+43.40	to	196+60.29	LT	71251						30.0				CONC. SLAB	
		196+74.19	to	196+99.00	LT	75F99						9.0				CURB & GUTTER	
		196+75.78	to	197+13.34	LT	759D						73.0				CONC. DRIVEWAY	
		219+96.77	to	223+07.76	LT	76056						173.0				CONC. SIDEWALK	
		223+02.61	to	223+27.87	LT	7605E						147.0				CONC. DRIVEWAY	
		223+23.9	to	225+36.81	LT	84CAC						116.0				CONC. SIDEWALK	
		225+31.31	to	225+55.04	LT	84CB0						161.0				CONC. DRIVEWAY	
		225+53.60	to	229+78.30	LT	84CC1						227.0				CONC. SIDEWALK	
		229+67.66	to	230+08.70	LT/RT	84CC9						186.0				CONC. DRIVEWAY	
		229+96.42	to	236+50.00	LT	84CD5						356.0				CONC. SIDEWALK	
		230+34.94	to	231+29.81	RT	84CD8						60.0				CONC. SIDEWALK	
		236+50.00	to	237+26.33	LT	84D1F						40.0				CONC. SIDEWALK	
		237+23.48	to	237+41.33	LT/RT	84D24						45.0				CONC. DRIVEWAY	
		237+38.72	to	239+86.03	LT/RT	84D28						132.0				CONC. SIDEWALK	
		240+13.50	to	242+02.89	LT/RT	84D2C						100.0				CONC. SIDEWALK	
		241+97.34	to	242+27.36	LT/RT	84D56						191.0				CONC. DRIVEWAY	
		242+22.49	to	248+14.06	LT/RT	84D5B						318.0				CONC. SIDEWALK	
		247+09.05	to	247+42.06	RT	84D60						38.0				CONC. DRIVEWAY	
		248+25.97	to	250+05.19	LT/RT	84D64						97.0				CONC. SIDEWALK	
		249+99.41	to	250+27.25	LT/RT	84D8D						53.0				CONC. DRIVEWAY	

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (14)

SHEET NO.: SQ-14

Mitch Johnson 2/7/2019 8:23:59 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

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SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.			SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)		QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0110 4 10	REMOVAL OF EXISTING CONCRETE PAVEMENT (Continued)	250+42.11	to	250+73.00	RT	84D91					SY	197.0				CONC. DRIVEWAY	
		250+19.20	to	254+17.81	RT	84D95						210.0				CONC. SIDEWALK	
		251+81.60	to	251+99.66	RT	84DC3						104.0				CONC. DRIVEWAY	
		254+55.80	to	258+83.35	LT/RT	84DC7						236.0				CONC. SIDEWALK	
		258+94.70	to	260+72.96	LT/RT	84DD0						98.0				CONC. SIDEWALK	
		259+60.37	to	261+60.00	LT/RT	8F023						43.0				CURB & GUTTER	
		260+51.32	to	261+60.00	RT	8F029						16.0				CURB & GUTTER	
		260+84.59	to	261+18.08	LT	84DD3						15.0				CONC. SIDEWALK	
		415+70.92	to	416+87.94	LT/RT	8F055						70.0				CONC. SIDEWALK	
		501+40.00	to	502+47.16	RT	75FD8						77.0				CONC. SIDEWALK	
		502+42.89	to	502+70.43	RT	75FBB						42.0				CONC. DRIVEWAY	
		502+67.71	to	504+20.00	RT	76021						88.0				CONC. SIDEWALK	

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY P	CY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
120 1	REGULAR EXCAVATION	6627		81636		ROADWAY	
		7398				POND 1	
		7799				POND 2	
		59812				POND 3	
120 4	SUBSOIL EXCAVATION	1571		1571			
120 6	EMBANKMENT	68250		68998		ROADWAY	
		247				POND 1	
		153				POND 2	
		348				POND 3	

EARTHWORK HAS been CALCULATED USING THE LIMEROCK BASE OPTION.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (15)

SHEET NO.: SQ-15

Floyd, Cindy
6/26/2019 10:59:47 AM
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	LOCATION DESCRIPTION	SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0160 4	Type B Stabilization	166+39.00 to 173+15.01		LT/RT	17A5CA			SY	8151.68		101690.33			
		173+15.00 to 187+50.00		LT/RT	17C0D0				14908.92					
		187+50.00 to 197+68.35		LT/RT	17DC86				11893.40					
		212+41.08 to 222+50.87		LT/RT	17DFE8				12008.65					
		222+49.59 to 236+50.07		LT/RT	17E17A				13863.50					
		236+50.01 to 243+86.66		LT/RT	184B52				7573.68					
		243+86.66 to 261+40.81		LT/RT	185945				18354.89					
		300+69.96 to 326+10.00		LT/RT	188737				12312.12					
		414+04.51 to 416+42.35		LT/RT	194202				129.49					
		414+05.41 to 418+00.00		LT/RT	189510				1492.36					
		414+11.65 to 416+31.83		RT	1941E0				110.09					
		416+57.60 to 417+20.00		LT/RT	194215				34.10					
		500+98.21 to 502+30.17		LT/RT	18956C				616.07					
		502+27.95 to 504+20.00		RT	189585				241.38					
0285701	Optional Base, Base Group 01	166+53.70 to 170+14.87		LT	12A352D			SY	426.56		9050.5			
		170+34.85 to 172+54.24		LT	13365BC				235.43					
		172+66.14 to 173+50.00		LT	13378B7				85.64					
		173+50.00 to 175+61.46		LT	12AC4B6				234.98					
		175+73.46 to 177+77.60		LT	31868				226.96					
		177+89.60 to 180+50.00		LT	318C3				289.44					
		180+50.00 to 182+05.12		LT	12B7FDD				172.87					
		182+48.78 to 187+50.00		LT	2EEBE				564.94					
		187+50.00 to 191+87.96		LT	2F00C				494.18					
		192+72.13 to 194+50.00		LT	2F36B				194.04					
		194+50.00 to 197+36.51		LT	12CBC91				331.14					
		213+02.54 to 215+10.52		LT	12D09E8				234.36					
		215+09.63 to 215+50.00		LT	12DC4FB				43.58					
		215+50.00 to 215+73.90		LT	12DFC31				26.11					
		215+86.10 to 218+49.96		LT	12E9BCF				289.00					
		218+88.19 to 219+06.68		LT	1329371				56.86					
		219+58.21 to 222+50.83		LT	1331C35				345.55					
		222+50.69 to 223+19.53		LT	2F93F				77.38					
		223+35.04 to 225+45.39		LT	2F9BC				236.65					
		225+57.22 to 229+50.34		LT	13352BA				442.45					
		229+50.28 to 229+74.74		LT	2FA86				27.57					
		229+92.72 to 236+50.01		LT	2FAE4				730.26					
		236+50.00 to 239+72.42		LT	2FDCB				359.82					
		240+32.77 to 243+50.01		LT	2FEBF				354.88					
		243+50.00 to 248+14.04		LT	3001D				515.55					
		249+91.48 to 250+50.01		LT	30541				65.02					
		250+50.00 to 254+05.35		LT	34CB6				394.82					
		254+76.43 to 257+53.17		LT	30B6E				308.75					
		257+52.59 to 258+84.17		LT	30C67				149.69					
		258+95.82 to 260+64.47		LT	131E3FA				192.93					
		260+77.04 to 261+41.18		LT	30E2F				48.11					
		300+70.00 to 304+04.54		RT	13401E3				89.27					
		300+70.01 to 304+05.70		LT	133E259				69.54					
		304+86.05 to 307+00.00		LT	1343655				139.69					
		304+87.75 to 307+00.00		LT/RT	1342D03				141.66					
		307+00.00 to 314+00.00		LT	13456FA				454.80					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208
Mitch Johnson

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (16)

SHEET NO.: SQ-16

2/7/2019 8:24:36 AM

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SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.		LOCATION DESCRIPTION	SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0285701	Optional Base, Base Group 01 (continued)	307+00.00	to 308+71.00		RT	13456A5			SY	114.35		1304.3			
		311+89.00	to 314+00.00		RT	13456B0				141.06					
		314+00.00	to 321+00.00		RT	134BADC				466.55					
		314+00.00	to 320+71.23		LT	134BB3F				448.07					
		321+00.00	to 323+02.00		RT	134F5F7				134.25					
0285709	Optional Base, Base Group 09	166+51.71	to 173+50.00		LT/RT	1E7B5BB			SY	3667.18		70796.59			
		167+70.00	to 173+50.00		RT	12A2A8E				1804.47					
		173+50.00	to 180+50.00		LT/RT	12ABB17				2558.02					
		173+50.00	to 180+50.00		LT	12ABB64				2178.23					
		180+50.00	to 187+50.00		LT/RT	12B19C8				6130.99					
		187+50.00	to 194+50.00		LT/RT	32154				6651.76					
		194+50.00	to 197+53.78		RT	32158				1112.54					
		212+41.08	to 215+50.00		LT/RT	32188				1271.55					
		212+56.79	to 215+50.00		LT	32186				1054.42					
		215+50.00	to 218+88.19		LT/RT	12E9233				2968.29					
		218+88.19	to 219+90.83		LT/RT	1338E89				1178.95					
		219+81.33	to 222+50.59		LT/RT	12EB218				2410.99					
		222+49.39	to 229+49.93		RT	32176				2220.78					
		222+49.99	to 229+50.25		LT/RT	32184				2339.56					
		229+49.58	to 236+50.00		LT/RT	12F0334				5299.86					
		236+50.00	to 243+50.00		LT/RT	32185				5269.18					
		243+50.00	to 250+50.00		RT	3217A				2177.78					
		243+50.00	to 250+50.00		LT	32179				2177.78					
		250+50.00	to 257+52.25		LT/RT	32178				5560.33					
		257+47.74	to 260+00.00		LT/RT	13256E0				1890.84					
		300+70.00	to 307+00.00		LT/RT	1FF1B4F				1862.15					
		307+00.00	to 314+00.00		LT	1346114				1691.96					
		308+71.00	to 311+00.93		RT	13541F5				380.77					
		314+00.00	to 321+00.00		LT	134C82E				1818.26					
		321+00.00	to 326+10.00		LT/RT	134F6E6				2575.99					
		413+94.74	to 417+45.14		LT/RT	135A89F				869.19					
		416+32.37	to 418+00.00		LT/RT	135A82D				589.49					
		418+00.00	to 418+75.00		LT/RT	20D949B				218.20					
		500+55.00	to 502+10.00		LT/RT	132893C				724.93					
		502+10.00	to 504+20.00		RT	1338E78				142.15					
0327 70 6	Milling Exist Asph Pavt, 1 1/2 Avg Depth	167+00.00	to 167+70.00		LT/RT	12A27F3			SY	395.52		3871.09			
		502+10.00	to 504+20.00		LT/RT	1338E2F				607.05					
		502+56.78	to 502+66.74		LT	12A27F3				395.52					
		918+75.00	to 925+26.60		LT/RT	1357622				2473.00					
0334 1 12	Superpave Asphaltic Concrete (B)	167+08.50	to 170+14.87		LT	12A352D			TN	28.22		116.7			
		170+34.85	to 172+54.24		LT	13365BC				19.42					
		172+66.14	to 173+50.00		LT	13378B7				7.07					
		173+50.00	to 175+61.46		LT	12AC4B6				19.39					
		175+73.46	to 177+77.60		LT	31868				18.72					
		177+89.60	to 180+50.00		LT	318C3				23.88					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (17)

SHEET NO.: SQ-17

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SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0334 1 12	Superpave Asphaltic Concrete (B) (continued)	180+50.00 to 181+85.60		LT	12B7FDD			TN	12.56		531.0			
		182+60.14 to 187+50.00		LT	2EEBE				45.62					
		187+50.00 to 191+87.96		LT	2F00C				40.77					
		192+77.58 to 194+50.00		LT	2F36B				15.52					
		194+50.00 to 197+36.51		LT	12CBC91				27.32					
		213+02.54 to 215+10.52		LT	12D09E8				19.33					
		215+09.63 to 215+50.00		LT	12DC4FB				3.60					
		215+50.00 to 215+73.90		LT	12DFC31				2.15					
		215+86.10 to 218+49.97		LT	12E9BCF				23.82					
		220+31.89 to 222+50.83		LT	1331C35				20.39					
		222+50.69 to 223+19.53		LT	2F93F				6.38					
		223+35.04 to 225+45.39		LT	2F9BC				19.52					
		225+57.22 to 229+50.34		LT	13352BA				36.50					
		229+50.28 to 229+74.74		LT	2FA86				2.27					
		229+92.72 to 236+50.01		LT	2FAE4				60.25					
		236+50.00 to 239+59.95		LT	2FDCB				28.49					
		240+35.23 to 243+50.01		LT	2FEBF				29.05					
		243+50.00 to 248+14.04		LT	3001D				42.53					
		249+91.48 to 250+50.01		LT	30541				5.36					
		250+50.00 to 253+98.27		LT	34CB6				31.87					
		254+76.43 to 257+53.17		LT	30B6E				25.47					
		257+52.59 to 258+84.17		LT	30C67				12.35					
		258+95.82 to 260+64.47		LT	131E3FA				15.92					
		260+77.04 to 261+41.18		LT	30E2F				3.97					
334 1 13	Superpave Asphaltic Concrete (C)	166+51.71 to 173+50.00		LT/RT	1E7B5BB			TN	605.08		9937.0			
		167+00.00 to 167+70.00		LT/RT	12A27F3				98.01					
		167+70.00 to 173+50.00		RT	12A2A8E				297.74					
		173+50.00 to 180+50.00		LT	12ABB64				359.41					
		173+50.00 to 180+50.00		LT/RT	12ABB17				422.07					
		180+50.00 to 187+50.00		LT/RT	12B19C8				1011.61					
		187+50.00 to 194+50.00		LT/RT	32154				1097.54					
		194+50.00 to 197+53.78		RT	32158				183.57					
		212+41.08 to 215+50.00		LT/RT	32188				209.81					
		212+56.79 to 215+50.00		LT	32186				173.98					
		215+50.00 to 218+88.19		LT/RT	12E9233				489.77					
		218+88.19 to 219+90.83		LT/RT	1338E89				162.10					
		219+81.33 to 222+50.59		LT/RT	12EB218				331.51					
		222+49.39 to 229+49.93		RT	32176				305.36					
		222+49.99 to 229+50.25		LT/RT	32184				321.69					
		229+49.58 to 236+50.00		LT/RT	12F0334				728.73					
		236+50.00 to 243+50.00		LT/RT	32185				724.51					
		243+50.00 to 250+50.00		RT	3217A				299.44					
		243+50.00 to 250+50.00		LT	32179				299.44					
		250+50.00 to 257+52.25		LT/RT	32178				764.55					
		257+47.74 to 260+00.00		LT/RT	13256E0				259.99					
		300+70.00 to 307+00.00		LT/RT	1FF1B4F				256.05					
		307+00.00 to 314+00.00		LT	1346114				232.64					
		308+71.00 to 311+00.93		RT	13541F5				52.36					
		314+00.00 to 321+00.00		LT	134C82E				250.01					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (18)

SHEET NO.: SQ-18

Mitch Johnson 5/16/2019 2:08:27 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

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SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
334 1 13	Superpave Asphaltic Concrete C (continued)	321+00.00 to 326+10.00		LT/RT	134F6E6			TN	354.20		704.00			
		413+94.74 to 417+45.14		LT/RT	135A89F				119.51					
		416+32.37 to 418+00.00		LT/RT	135A82D				81.06					
		418+00.00 to 418+75.00		LT/RT	20D949B				30.00					
		500+55.00 to 502+10.00		LT/RT	132893C				99.68					
		502+10.00 to 504+20.00		RT	1338E78				19.55					
337 7 83	Asphalt Concrete Friction Course, Traffic C, FC-12.5, PG 76-22	166+51.71 to 173+50.00		LT/RT	1E7B5BB			TN	453.81		9501.3			
		167+00.00 to 167+70.00		LT/RT	12A27F3				48.95					
		167+70.00 to 173+50.00		RT	12A2A8E				223.30					
		173+50.00 to 180+50.00		LT/RT	12ABB17				316.55					
		173+50.00 to 180+50.00		LT	12ABB64				269.56					
		180+50.00 to 187+50.00		LT/RT	12B19C8				758.71					
		187+50.00 to 194+50.00		LT/RT	32154				823.16					
		194+50.00 to 197+53.78		RT	32158				137.68					
		212+41.08 to 215+50.00		LT/RT	32188				157.35					
		212+56.79 to 215+50.00		LT	32186				130.48					
		215+50.00 to 218+88.19		LT/RT	12E9233				367.33					
		218+88.19 to 219+90.83		LT/RT	1338E89				145.89					
		219+81.33 to 222+50.59		LT/RT	12EB218				298.36					
		222+49.39 to 229+49.93		RT	32176				274.82					
		222+49.99 to 229+50.25		LT/RT	32184				289.52					
		229+49.58 to 236+50.00		LT/RT	12F0334				655.86					
		236+50.00 to 243+50.00		LT/RT	32185				652.06					
		243+50.00 to 250+50.00		LT	32179				269.50					
		243+50.00 to 250+50.00		RT	3217A				269.50					
		250+50.00 to 257+52.25		LT/RT	32178				688.09					
		257+47.74 to 260+00.00		LT/RT	13256E0				233.99					
		300+70.00 to 304+04.54		RT	13401E3				11.05					
		300+70.00 to 307+00.00		LT/RT	1FF1B4F				230.44					
		300+70.00 to 304+05.70		LT	133E259				8.61					
		304+86.05 to 307+00.00		LT	1343655				17.29					
		304+87.75 to 307+00.00		LT/RT	1342D03				17.53					
		307+00.00 to 314+00.00		LT	1346114				209.38					
		307+00.00 to 314+00.00		LT	13456FA				56.28					
		307+00.00 to 308+71.00		RT	13456A5				14.15					
		308+71.00 to 311+00.93		RT	13541F5				47.12					
		311+89.00 to 314+00.00		RT	13456B0				17.46					
		314+00.00 to 321+00.00		LT	134C82E				225.01					
		314+00.00 to 321+00.00		RT	134BADC				57.74					
		314+00.00 to 320+71.23		LT	134BB3F				55.45					
		321+00.00 to 323+02.00		RT	134F5F7				16.61					
		321+00.00 to 326+10.00		LT/RT	134F6E6				318.78					
		321+29.39 to 325+72.59		LT	134F64B				37.93					
		413+94.74 to 417+45.14		LT/RT	135A89F				107.56					
		416+32.37 to 418+00.00		LT/RT	135A82D				72.95					
		418+00.00 to 418+75.00		LT/RT	20D949B				27.00					
		500+55.00 to 502+10.00		LT/RT	132893C				89.71					
		502+10.00 to 504+20.00		RT	1338E78				17.59					
		502+10.00 to 504+20.00		LT/RT	1338E2F				75.12					
		918+75.00 to 925+26.60		LT/RT	1357622				306.03					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (19)

SHEET NO.: SQ-19

Mitch Johnson 2/7/2019 8:25:32 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

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SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT

LOCATION			SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL		BICYCLE PATH		MEDIAN PAVEMENT		OTHER		DESIGN NOTES	CONSTRUCTION REMARKS
								0339 1		0339 1		0339 1		0339 1			
STA. TO STA.								TN		TN		TN		TN			
								P	F	P	F	P	F	P	F		
300+60.00	to	304+27.83	RT	133B0DB				13.25									
SUB-TOTAL:								13.25									
TOTAL:								13.25									
GRAND TOTAL:								13.25									

SUMMARY OF WALLS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.										
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	189+45.00	to	189+70.00	LT	CY	8.0				3' Height, Scheme 2	
		232+20.00	to	232+70.00	LT	CY	32.5				5' Height, Scheme 2	
		300+30.71	to	300+83.81	LT	CY	17.0				3' Height, Scheme 2	
				SUB-TOTAL:			57.5					
				TOTAL:			58					

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS

LOCATION			SIDE	BACK		AHEAD		PIPE LENGTH - LF								MES - EA								DESIGN NOTES	CONSTRUCTION REMARKS
								ROUND (0430174115)				OTHER (0430174218)				ROUND (0430984123)				OTHER (0430984625)					
								18"		15"		12"x18"		15"		18"		15"		12"x18"		15"			
STA. TO STA.				OFFSET	℄	OFFSET	℄	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F		
215+58.00	to	216+01.00	LT	97.05	11.75	89.75	11.85					38.0								2					
304+31.00	to	304+61.00	LT	49.53	10.00	49.41	10.10					30.0								2					
185+99.00	to	186+20.10	RT	54.59	14.40	54.80	14.30			21.0								2							
187+10.98	to	187+30.74	RT	53.49	14.10	53.33	14.05			19.0								2							
188+13.00	to	188+36.00	RT	56.23	13.47	55.92	13.43			23.0								2							
SUB-TOTAL:										63.0		68.0						6		4					
TOTAL:										63		68						6		4					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (20)

SHEET NO.: SQ-20

Floyd, Cindy
5/21/2019 1:35:17 PM
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF RAILING

LOCATION			SIDE	PIPE GUIDERAIL (ALUMINUM)		DESIGN NOTES	CONSTRUCTION REMARKS
				0515 1 2			
STA. TO STA.				LF			
				P	F		
172+46.02	to	172+54.02	RT	8.0			
174+46.00	to	174+54.00	RT	8.0			
176+05.99	to	176+13.99	LT	8.0			
177+50.99	to	177+58.99	LT	8.0			
179+23.04	to	179+31.04	RT	8.0			
179+46.02	to	179+54.02	LT	8.0			
180+95.98	to	181+03.98	LT	8.0			
182+46.60	to	182+54.30	RT	8.0			
184+46.05	to	184+53.90	LT	8.0			
185+61.05	to	185+68.90	LT	8.0			
187+46.02	to	187+54.15	RT	8.0			
189+44.99	to	189+70.00	LT	25.5			
195+20.50	to	195+30.80	LT	10.2			
195+30.80	to	196+70.05	LT	136.4			
195+59.93	to	196+32.78	RT	74.1			
196+32.78	to	196+69.92	RT	37.9			
196+69.92	to	197+13.35	RT	44.2			
196+70.05	to	197+36.76	LT	65.4			
212+69.22	to	213+17.30	RT	49.0			
213+06.14	to	213+49.37	LT	42.5			
213+17.27	to	214+00.00	RT	84.2			
213+49.33	to	214+00.00	LT	49.7			
232+20.00	to	232+70.00	LT	50.0			
242+71.00	to	242+79.00	RT	8.0			
245+61.01	to	245+69.01	RT	8.0			
248+96.99	to	249+04.99	RT	8.0			
249+61.99	to	249+69.99	RT	8.0			
250+82.00	to	250+90.00	RT	8.0			
252+61.01	to	252+69.01	RT	8.0			
254+96.00	to	255+04.00	LT	8.0			
255+25.99	to	255+33.99	RT	8.0			
258+50.91	to	258+59.13	RT	8.0			
300+30.71	to	301+10.00	LT	79.3			
302+75.00	to	303+25.00	LT	50.0			
308+00.00	to	309+10.00	LT	110.0			
			SUB-TOTAL:	1068.3			
			TOTAL:	1068			

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (21)

SHEET NO.: SQ-21

Mitch Johnson 5/17/2019 10:51:15 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

SUMMARY OF PERMANENT BARRIER WALL

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0521 1	Median Concrete Barrier Wall, Cast In Place	195+84.90 to 195+94.85	RT	LF	10.0		3557			
		195+94.85 to 196+65.00	RT		70.4					
		196+65.00 to 196+75.00	RT		10.0					
		196+75.00 to 196+85.04	RT		10.0					
		196+85.04 to 197+23.55	RT		38.6					
		196+90.20 to 197+00.00	LT		9.8					
		197+00.00 to 197+25.36	LT		25.3					
		197+23.55 to 199+73.56	RT		250.3					
		197+25.03 to 199+73.56	LT		248.2					
		199+73.56 to 212+13.19	LT		1239.6					
		199+73.56 to 212+13.19	RT		1239.6					
		212+13.19 to 212+85.41	RT		72.3					
		212+13.19 to 212+87.73	LT		74.4					
		212+84.90 to 214+23.00	RT		138.3					
		212+87.73 to 213+88.00	LT		100.2					
		213+88.00 to 213+98.00	LT		10.0					
		214+23.00 to 214+33.00	RT		10.0					
0521 72 5	Shoulder Concrete Barrier Wall, Rigid - Curb & Gutter	195+20.62 to 196+70.00	LT	LF	147.0		3720			
		195+60.00 to 196+70.00	RT		111.8					
		196+70.00 to 199+73.56	RT		308.9					
		196+70.00 to 199+73.56	LT		298.8					
		199+73.56 to 212+13.19	LT		1239.6					
		199+73.56 to 212+71.59	RT		1299.0					
		212+13.19 to 213+01.85	LT		87.3					
		212+71.59 to 214+00.00	RT		130.5					
		213+01.85 to 214+00.00	LT		96.9					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

SUMMARY OF QUANTITIES (22)

SHEET NO. SQ-22

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SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 1 10	Concrete Curb & Gutter, Type F	166+53.20 to 166+57.05	LT	6C1DA	LF				19.1		6796			
		166+58.97 to 166+98.43	LT	6C1DB					49.0					
		166+86.17 to 166+98.39	RT	6C07F					16.3					
		167+02.42 to 167+23.39	RT	6C080					21.7					
		167+02.43 to 169+41.19	LT	6C1DC					238.8					
		167+23.38 to 181+63.68	RT	6C081					1441.7					
		169+41.19 to 169+91.19	LT	6C1DD					51.7					
		169+91.19 to 170+10.75	LT	6C1DE					19.6					
		170+39.01 to 172+10.00	LT	6C1DF					171.0					
		172+10.02 to 172+44.09	LT	6C1E0					34.1					
		172+76.09 to 175+36.21	LT	6C233					260.2					
		175+36.19 to 175+51.46	LT	6C1E2					15.3					
		175+83.46 to 177+67.60	LT	6C1E3					184.2					
		177+99.60 to 181+86.14	LT	6C1E4					386.5					
		181+63.68 to 181+89.51	RT	6C082					29.5					
		181+85.64 to 182+07.67	LT	6C1E5					28.6					
		181+86.14 to 182+09.14	LT	6C1EC					32.4					
		181+89.51 to 181+97.18	RT	6C083					23.2					
		182+24.21 to 182+24.23	RT	6C0D9					12.1					
		182+24.23 to 182+25.42	RT	6C0D8					8.8					
		182+25.42 to 182+57.73	RT	6C0D7					43.8					
		182+36.64 to 182+60.14	LT	6C280					31.6					
		182+48.54 to 182+60.14	LT	6C2AC					12.1					
		182+57.73 to 185+93.65	RT	6C0DA					333.0					
		182+60.14 to 190+72.57	LT	6C2AD					823.6					
		186+26.12 to 187+04.53	RT	6C0DB					77.3					
		187+36.99 to 188+09.39	RT	6C0DC					71.4					
		188+41.85 to 190+25.67	RT	6C0DD					181.2					
		190+25.67 to 190+75.73	RT	6C0DE					50.8					
		190+72.57 to 191+59.61	LT	6C2AE					87.1					
		190+75.73 to 192+10.86	RT	6C0DF					135.1					
		191+59.61 to 192+08.06	LT	6C2AF					87.9					
		192+03.03 to 192+06.71	LT	6C2B0					21.3					
		192+10.86 to 192+28.95	RT	6C0E0					18.5					
		192+25.17 to 192+35.19	LT	6C316					37.7					
		192+35.19 to 192+82.29	LT	6C317					64.5					
		192+38.29 to 192+57.62	RT	6C0E1					34.0					
		192+57.35 to 192+62.80	RT	6C0E2					20.6					
		192+82.29 to 192+98.56	LT	6C318					16.3					
		192+83.47 to 192+91.21	RT	6C125					39.9					
		192+97.92 to 193+30.96	RT	6C132					37.2					
		192+98.56 to 194+70.71	LT	6C319					169.0					
		193+30.96 to 195+59.95	RT	6C133					232.2					
		194+70.71 to 195+20.82	LT	6C31A					49.6					
		214+00.00 to 216+08.82	RT	6C16B					211.8					
		214+00.00 to 215+63.77	LT	6C367					161.5					
		215+96.23 to 218+62.34	LT	6C368					262.4					
		216+08.82 to 216+59.00	RT	6C16C					52.6					
		216+59.00 to 218+62.50	RT	6C16D					207.3					
		220+19.14 to 221+98.19	LT	6C4A2					180.8					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (23)

SHEET NO.: SQ-23

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SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY					TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH					
							TYPE	LENGTH	P	F	P	F		
0520 1 10	Concrete Curb & Gutter, Type F (Continued)	220+22.90 to 220+29.57	RT	6C3A9	LF				6.7		6841			
		220+29.57 to 220+72.36	RT	6C3A8					42.8					
		220+72.36 to 229+10.39	RT	6C3AA					829.3					
		221+98.19 to 222+48.18	LT	6C4A3					52.2					
		222+48.18 to 223+09.60	LT	6C4A4					62.1					
		223+44.95 to 225+35.46	LT	6C4A5					192.5					
		225+67.13 to 229+65.04	LT	6C4A6					402.1					
		229+10.39 to 229+22.90	RT	6C3AB					13.0					
		229+28.75 to 229+34.28	RT	6C3AC					16.4					
		229+34.26 to 229+34.28	RT	6C3AD					2.0					
		229+61.73 to 229+61.74	RT	6C6EF					2.0					
		229+61.74 to 229+67.28	RT	6C6F0					16.4					
		229+73.12 to 229+85.53	RT	6C6F1					13.0					
		229+85.54 to 229+93.77	RT	6C6F2					8.2					
		229+93.77 to 230+43.82	RT	6C6F3					51.5					
		230+02.52 to 239+51.60	LT	6C4A7					949.1					
		230+43.82 to 231+78.87	RT	6C6F4					135.1					
		231+78.87 to 231+93.78	RT	6C6F5					15.5					
		232+01.17 to 232+09.44	RT	6C6F6					14.1					
		232+54.32 to 232+58.76	RT	6C6F7					10.1					
		232+64.70 to 232+99.87	RT	6C6F8					39.3					
		232+99.87 to 234+44.00	RT	6C6F9					144.1					
		234+80.00 to 242+08.50	RT	6C6FA					728.5					
		239+51.60 to 239+85.10	LT	6C4A8					52.6					
		239+85.10 to 239+85.10	LT	6C4A9					12.0					
		240+08.10 to 240+41.60	LT	6C4AA					52.6					
		240+41.60 to 241+80.00	LT	6C4AB					138.4					
		241+80.00 to 242+30.77	LT	6C4AC					52.2					
		242+30.77 to 248+04.04	LT	6C4AD					573.3					
		242+40.50 to 242+88.57	RT	6C6FB					48.1					
		243+20.57 to 244+34.58	RT	6C6FC					114.0					
		244+66.58 to 247+09.19	RT	6C6FD					242.6					
		247+47.19 to 247+51.66	RT	6C6FE					4.5					
		247+87.66 to 249+18.91	RT	6C6FF					131.3					
		248+36.04 to 249+69.48	LT	6C4AE					133.5					
		249+50.91 to 250+35.63	RT	6C700					84.7					
		250+01.48 to 253+89.91	LT	6C4AF					388.4					
		250+79.63 to 251+74.89	RT	6C701					95.3					
		252+06.33 to 253+66.08	RT	6C702					159.8					
		253+89.91 to 254+18.15	LT	6C4B0					33.6					
		253+98.08 to 254+81.06	RT	6C703					83.0					
		254+22.44 to 254+23.29	LT	6C4B1					5.7					
		254+46.41 to 254+53.04	LT	6C4B2					21.5					
		254+65.00 to 254+79.91	LT	6C4B3					15.5					
		254+79.91 to 256+15.18	LT	6C4B4					135.3					
		255+13.06 to 257+51.95	RT	6C704					238.9					
		256+15.18 to 256+65.18	LT	6C4B5					51.4					
		256+65.18 to 257+58.16	LT	6C4B6					93.0					
		257+51.95 to 257+67.12	RT	6C705					15.5					
		257+58.16 to 258+74.35	LT	6C4B7					118.8					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208
Mitch Johnson

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495
2/7/2019 8:27:04 AM

SUMMARY OF QUANTITIES (24)

SHEET NO.: SQ-24

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SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 1 10	Concrete Curb & Gutter, Type F (Continued)	257+74.79 to 257+83.45	RT	6C706	LF				14.2		3275			
		258+18.43 to 258+26.68	RT	6C707					13.3					
		258+34.36 to 258+49.77	RT	6C708					15.6					
		258+49.77 to 260+00.00	RT	6C709					146.9					
		259+05.65 to 259+94.13	LT	6C4B8					90.5					
		259+94.13 to 260+00.00	LT	6C4B9					6.0					
		300+69.97 to 304+05.67	LT	6D294					335.8					
		304+05.67 to 304+86.00	LT	75AC3					80.3					
		304+86.05 to 305+26.00	LT	6D28F					40.0					
		305+26.00 to 311+28.50	LT	6D28E					584.4					
		311+61.49 to 311+73.15	LT	6D28D					11.3					
		311+77.40 to 316+00.07	LT	6D28C					410.0					
		316+00.07 to 318+47.36	LT	6D28B					247.3					
		318+47.36 to 319+66.00	LT	6D28A					122.2					
		319+66.00 to 320+70.90	LT	6D289					108.4					
		320+70.90 to 321+29.21	LT	755ED					60.5					
		321+29.21 to 322+36.31	LT	6D282					111.5					
		322+36.31 to 325+72.59	LT	6D281					350.6					
		325+72.59 to 325+78.96	LT	6D280					6.7					
		325+76.30 to 326+13.00	RT	6D27E					57.5					
		325+82.73 to 326+16.73	LT	6D27F					58.0					
		326+16.73 to 326+17.43	LT	6C16F					7.0					
		500+42.42 to 500+83.25	LT	6D0FE					61.6					
		500+53.25 to 500+53.30	RT	6D0F8					15.2					
		500+53.30 to 500+82.09	RT	6D0F9					54.9					
		500+86.53 to 501+05.67	RT	6D0FA					19.1					
		500+87.05 to 502+10.00	LT	6D0FD					126.3					
		501+05.67 to 502+27.99	RT	6D0FB					119.7					
0520 2 2	Concrete Curb, Type AB	171+40.49 to 178+50.00	RT	6CBDF	LF				709.5		2300			
		171+40.50 to 172+40.77	LT/RT	6CBDB					102.6					
		172+40.77 to 175+35.93	LT	6CBDC					295.2					
		175+35.93 to 179+00.00	LT	6CBDD					364.1					
		178+50.00 to 179+00.00	LT/RT	6CBDE					52.7					
		185+33.00 to 188+65.00	RT	6CC83					330.9					
		185+33.00 to 185+83.22	LT/RT	6CC80					52.9					
		185+83.22 to 189+15.00	LT	6CC81					332.9					
		188+65.00 to 189+15.00	LT/RT	6CC82					52.6					
		195+78.00 to 195+84.90	RT	6CD09					6.9					

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (25)

SHEET NO.: SQ-25

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SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	QUANTITY DEDUCTIONS TYPE	QUANTITY DEDUCTIONS LENGTH	QUANTITY NET LENGTH P	QUANTITY NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 2 2	Concrete Curb, Type AB (Continued)	195+78.00 to 196+28.15	LT/RT	6CD07	LF				52.7		5381			
		196+28.15 to 196+90.16	LT	6CD08					62.2					
		213+98.01 to 214+58.04	LT	6CD56					60.2					
		214+33.01 to 214+83.03	LT/RT	6CD58					50.4					
		214+58.04 to 214+83.03	LT	6CD57					24.9					
		223+36.00 to 229+75.95	RT	6CDE2					638.4					
		223+36.00 to 223+86.66	LT/RT	6CDDC					52.1					
		223+86.66 to 229+75.95	LT	6CDDD					590.8					
		229+75.95 to 231+85.47	RT	6CDE1					209.5					
		229+75.95 to 231+63.71	LT	6CDDE					187.8					
		231+63.71 to 231+86.68	LT/RT	6CDDF					28.5					
		235+05.00 to 236+84.84	RT	6CEB6					179.8					
		235+05.00 to 235+55.00	LT/RT	6CEB3					51.4					
		235+55.00 to 237+35.00	LT	6CEB4					180.0					
		236+84.84 to 237+35.00	LT/RT	6CEB5					51.5					
		240+30.37 to 240+40.00	LT/RT	6CF4F					30.4					
		240+40.00 to 251+14.00	LT	6CF50					1074.0					
		240+40.00 to 250+63.85	RT	6CF51					1023.9					
		250+63.85 to 251+14.00	LT/RT	6CF52					51.5					
		255+30.37 to 255+40.00	LT/RT	6CFFB					30.4					
		255+40.00 to 257+58.16	LT	6CFFC					218.2					
		255+40.00 to 257+58.16	RT	6CFFD					218.2					
		257+58.16 to 259+00.03	LT	6CFFF					142.6					
		257+58.16 to 259+00.00	RT	6CFFE					141.1					
		259+00.00 to 259+09.64	LT/RT	6D000					30.3					
0520 5 11	Traffic Separator Concrete - Type I, 4' Wide	167+03.49 to 171+40.50	RT	6D658	LF				437.0		1386			
		179+00.00 to 181+37.21	LT	6D689					237.0					
		182+96.00 to 185+33.00	RT	6D6BD					236.6					
		189+15.00 to 190+15.07	LT	6D770					100.4					
		190+15.07 to 190+67.29	LT	6D77D					52.4					
		190+67.29 to 191+52.00	LT	6D77E					84.7					
		193+41.00 to 195+78.00	RT	6D809					237.7					
0520 5 16	Traffic Separator Concrete - Type I, 8.5' Wide	214+83.01 to 218+56.26	LT	6D83D	LF				372.5		1401			
		220+24.75 to 220+72.07	RT	6D878					47.3					
		220+72.07 to 223+36.00	RT	6D877					263.5					
		232+65.75 to 235+05.00	RT	6D8DB					239.3					
		237+35.00 to 239+74.25	LT	6D911					239.2					
		251+14.00 to 253+53.25	LT	6D983					239.2					

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (26)

SHEET NO.: SQ-26

Mitch Johnson 2/7/2019 8:27:41 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SUMQRD01.dwg

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4" 0522 1 SY		CONC SIDEWALK 6" 0522 2 SY		BUS BAY/BOARDING PAD - CONCRETE 0522 3 SY		BUS SHELTER PAD - CONCRETE 0522 4 SY		PATTERNED PAVT. NON-VEHICULAR 0523 2 SY		PAVERS, ARCH. SIDEWALK 0526 1 2 SY		DETECTABLE WARNINGS 0527 2 SF		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.					P	F	P	F	P	F	P	F	P	F	P	F	P	F		
166+86.58 to 167+23.38	RT	12A27B4			39.4															
167+23.38 to 173+50.00	RT	31364			348.1															
173+50.00 to 180+50.00	RT	12A9362			393.0															
180+50.00 to 181+88.57	RT	12B5ABA			93.0															
181+88.30 to 181+93.68	RT	12B5155			14.9															
182+27.67 to 182+32.73	RT	12BAE8E			17.4															
182+30.96 to 186+03.78	RT	12BA571			206.1															
186+15.98 to 187+14.66	RT	2EF24			51.9															
187+26.86 to 187+50.00	RT	2EF7A			11.6															
187+50.00 to 188+19.52	RT	2F07A			37.0															
188+31.72 to 192+20.40	RT	2F0EC			213.5															
194+50.00 to 197+14.46	RT	12C9FDF			164.6															
212+69.46 to 215+19.07	RT	12CD97F			157.4															
215+18.64 to 215+50.00	RT	12D859A			17.5															
215+50.00 to 218+88.19	RT	12E8774			204.0															
219+91.95 to 222+49.29	RT	12EA673			169.2															
222+49.22 to 229+21.27	RT	12EB24E			368.7															
229+74.75 to 231+92.62	RT	12FC3C5			121.8															
232+71.08 to 234+54.00	RT	2FB16			101.4															
234+70.00 to 236+50.00	RT	2FD49			99.0															
236+49.99 to 242+18.50	RT	2FE44			314.8															
242+30.50 to 242+98.57	RT	2FF15			35.8															
243+10.57 to 243+50.00	RT	2FF6E			20.9															
243+49.99 to 244+44.58	RT	30077			51.6															
244+56.58 to 247+19.19	RT	300BC			143.9															
247+37.19 to 247+61.66	RT	3010F			11.6															
247+77.66 to 249+28.91	RT	306A7			82.0															
249+40.91 to 250+45.63	RT	305CC			56.2															
250+69.63 to 251+84.89	RT	308AB			62.0															
251+96.33 to 253+76.08	RT	30A82			97.9															
253+88.08 to 254+91.06	RT	30B01			55.2															
255+03.06 to 257+47.41	RT	30BCD			134.7															
257+47.12 to 257+70.37	RT	30C24			12.7															
258+31.13 to 261+87.40	RT	131ED69			193.1															
300+30.76 to 302+61.62	LT	133D693			133.4															
302+61.62 to 304+21.62	LT	133EB7D			88.9															
304+69.88 to 307+00.00	LT	1343702			124.2															
307+00.00 to 311+38.77	LT	1347CF9			234.2															
311+51.23 to 314+00.00	LT	335F8			132.6															
311+72.62 to 311+76.86	RT	1346155			0.9															
314+00.00 to 320+81.44	LT	134DC77			380.0															
321+18.24 to 326+12.80	LT	134F923			312.4															
414+06.37 to 416+43.58	LT	135A248			123.3															
416+56.40 to 416+88.46	LT	135A305			16.7															
501+05.66 to 502+10.00	RT	13289B2			56.0															
502+10.00 to 502+47.65	RT	1334648			19.1															
502+59.97 to 503+84.03	RT	133464D			67.6															
				SUB-TOTAL:	5791.3															
				TOTAL:	5791		2849										495			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (27)

SHEET NO.: SQ-27

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		BUS BAY/BOARDING PAD - CONCRETE		BUS SHELTER PAD - CONCRETE		PATTERNED PAVT. NON-VEHICULAR		PAVERS, ARCH. SIDEWALK		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0522 3		0522 4		0523 2		0526 1 2		0527 2			
STA. TO STA.					SY		SY		SY		SY		SY		SY		SF			
					P	F	P	F	P	F	P	F	P	F	P	F	P	F		
166+53.70 to 167+08.50	LT	2ABD80C					112.2													
170+04.76 to 170+44.52	LT	12A6D67					97.1													
172+44.07 to 172+76.11	LT	2C216					42.7													
175+51.46 to 175+83.46	LT	2C2CE					43.6													
177+67.60 to 177+99.60	LT	13365A3					43.6													
181+85.60 to 182+06.62	LT	2ABD809					20.6													
182+48.78 to 182+60.14	LT	2ABD80A					12.0													
185+93.64 to 186+26.11	RT	2C36E					40.2													
187+04.52 to 187+37.00	RT	2D836					40.2													
188+09.38 to 188+41.85	RT	2C43F					40.4													
191+81.73 to 192+01.58	LT	2ABD80B					16.6													
192+48.58 to 192+77.58	LT	2ABD80D					23.2													
193+04.56 to 194+50.00	RT	2F133					82.4													
194+50.00 to 197+14.46	RT	12C9FDF					164.6													
215+63.76 to 215+96.24	LT	1335C12					122.0													
218+55.38 to 219+06.67	LT	2ABD80E					139.2													
219+51.79 to 220+26.14	LT	2ABD80F					118.7													
223+09.63 to 223+44.99	LT	2C59B					54.4													
225+35.46 to 225+67.14	LT	2C5F0					43.6													
229+64.85 to 230+02.74	LT	315AD					60.9													
234+44.00 to 234+80.00	RT	2D067					49.6													
239+58.82 to 239+84.45	LT	2ABD808					23.6													
240+14.36 to 240+35.23	LT	2ABD807					16.1													
242+08.50 to 242+40.50	RT	2E332					40.9													
242+88.57 to 243+20.57	RT	2E2C0					40.9													
244+34.58 to 244+66.58	RT	2E1BD					41.0													
247+09.19 to 247+47.19	RT	2E172					56.2													
247+51.66 to 247+87.66	RT	2E06E					51.5													
249+18.91 to 249+50.91	RT	2D3B9					64.7													
249+69.48 to 250+01.48	LT	2D4A6					43.6													
250+35.63 to 250+79.63	RT	2D503					117.0													
251+74.89 to 252+06.33	RT	2D564					62.2													
253+66.08 to 253+98.08	RT	2D5B4					41.7													
253+93.52 to 254+24.91	LT	2135FCC					52.9													
253+97.14 to 254+20.24	LT	2ABD806					20.8													
254+44.90 to 254+77.59	LT	2135FB4					54.5													
254+56.04 to 254+73.54	LT	2ABD805					12.5													
254+81.06 to 255+13.06	RT	2DDF1					41.4													
258+74.31 to 259+05.66	LT	2D6BB					46.3													
260+40.19 to 261+06.74	LT	2D6E0					109.3													
240+30.77 to 240+32.77	LT	12FFC06					164.6													
254+15.19 to 254+21.91	LT	13124E8					122.0													
257+70.34 to 257+72.45	RT	131415A					139.2													
258+29.09 to 258+31.19	RT	131A0F8					118.7													
SUB-TOTAL:							2849.2													

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

SUMMARY OF QUANTITIES (28)

SHEET NO. SQ-28

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		BUS BAY/BOARDING PAD - CONCRETE		BUS SHELTER PAD - CONCRETE		PATTERNED PAVT. NON-VEHICULAR		PAVERS, ARCH. SIDEWALK		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0522 3		0522 4		0523 2		0526 1 2		0527 2			
STA. TO STA.					SY		SY		SY		SY		SY		SY		SF			
					P	F	P	F	P	F	P	F	P	F	P	F	P	F		
166+57.60 to 166+61.80	LT	12A5A9C															8.9			
166+98.39 to 167+02.42	RT	12A2778															8.2			
166+98.43 to 167+02.43	LT	12A516E															10.5			
181+90.41 to 181+94.63	RT	12C36C9															11.4			
182+05.12 to 182+07.20	LT	12C2DAD															19.4			
182+24.89 to 182+27.33	RT	12C4010															8.6			
182+39.55 to 182+48.78	LT	12C2491															23.4			
191+87.94 to 191+93.92	LT	12C8386															59.6			
192+20.49 to 192+37.34	RT	12E8730															24.7			
192+66.13 to 192+72.14	LT	12C8CF0															60.0			
192+93.10 to 192+99.81	RT	12C7070															14.9			
218+62.10 to 218+67.06	LT	32BE1															9.4			
218+62.48 to 218+67.37	RT	32C20															9.9			
220+14.14 to 220+19.14	LT	12EA629															10.0			
220+18.10 to 220+23.29	RT	12EA61B															9.9			
229+21.99 to 229+30.65	RT	12EBC2D															15.0			
229+65.43 to 229+74.03	RT	1338C33															14.8			
231+92.62 to 232+00.36	RT	12FD688															14.7			
232+59.40 to 232+66.03	RT	12FA734															15.9			
239+72.42 to 239+74.42	LT	12FFC00															20.0			
240+30.77 to 240+32.77	LT	12FFC06															20.0			
254+15.19 to 254+21.91	LT	13124E8															22.1			
257+70.34 to 257+72.45	RT	131415A															8.8			
258+29.09 to 258+31.19	RT	131A0F8															8.8			
304+60.59 to 304+69.20	LT	13449B8															12.7			
311+73.15 to 311+77.44	LT	35C6F															8.3			
320+83.08 to 320+90.16	LT	135199A															13.6			
325+71.73 to 325+76.16	RT	1352A0F															7.8			
325+78.51 to 325+82.62	LT	13535A1															7.8			
500+82.36 to 500+87.45	RT	1327552															9.2			
500+83.30 to 500+87.05	LT	1327E73															7.5			
SUB-TOTAL:																	495.5			

SUMMARY OF GUARDRAIL

LOCATION			SIDE	GUARDRAIL (W-BEAM, LOW SPEED, TL-2)		END TREATMENT (PARALLEL)		END TREATMENT (CRT)		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.				0536 1 0		0536 85 25		0536 85 26			
				LF		EA		EA			
				P	F	P	F	P	F		
300+70.00	to	304+24.38	RT	366.81		1		1			
SUB-TOTAL:				366.81		1		1			
TOTAL:				366.81		1		1			

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (29)

SHEET NO.: SQ-29

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF 0570 1 1 SY P	PERFORMANCE TURF 0570 1 1 SY F	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	PREPARED SOIL LAYER 0162 1 31 SY P	PREPARED SOIL LAYER 0162 1 31 SY F	PREPARED SOIL LAYER 0162 1 32 SY P	PREPARED SOIL LAYER 0162 1 32 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
166+68.70 to 170+14.81	LT	135A8ED			460.3									
167+23.40 to 171+40.03	RT	12A2765			578.5									
170+34.76 to 171+40.00	LT	12AAF8C			97.8									
171+40.00 to 172+54.51	LT	13378AE			123.3									
171+40.01 to 180+50.00	RT	135C435			1192.2									
173+50.00 to 175+61.49	LT	12AF38F			178.0									
175+73.46 to 177+77.60	LT	12B0615			204.1									
180+50.00 to 182+08.64	LT	135B650			199.3									
180+50.00 to 181+88.68	RT	12B6D51			167.9									
182+34.67 to 186+03.77	RT	135D25C			476.3									
182+39.26 to 187+50.00	LT	12C1B74			536.4									
186+15.99 to 187+14.65	RT	12BD9C3			96.9									
187+26.87 to 187+50.00	RT	7A4057			22.7									
187+50.00 to 188+19.51	RT	7A4071			68.3									
187+50.00 to 192+07.07	LT	12C4162			522.8									
188+31.73 to 192+48.99	RT	12C5DFE			410.1									
192+44.07 to 194+50.00	LT	12C8D4B			89.1									
193+05.33 to 194+50.00	RT	135E003			190.6									
194+50.00 to 197+37.85	LT	12CC6A4			125.2									
194+50.00 to 197+12.98	RT	12CA9D5			459.8									
212+68.75 to 215+21.06	RT	12CECC3			610.6									
213+06.67 to 215+09.38	LT	12D266C			337.0									
215+08.22 to 215+50.00	LT	12DD76F			54.2									
215+19.27 to 215+50.00	RT	12DA970			71.2									
215+49.99 to 218+88.19	RT	12E91ED			442.4									
215+50.00 to 215+73.88	LT	12E7E0C			29.2									
215+86.12 to 218+86.17	LT	12E9CA6			431.8									
218+75.42 to 218+87.71	LT	135F319			18.1									
219+67.92 to 219+81.58	LT	132B187			7.1									
219+79.69 to 222+50.93	LT	12EA7FF			122.9									
219+95.08 to 222+49.19	RT	12EA744			270.3									
222+49.05 to 229+33.35	RT	12EB308			673.0									
222+50.87 to 223+19.53	LT	12ECF07			31.0									
223+35.03 to 225+45.41	LT	12ED873			214.5									
225+57.21 to 229+50.36	LT	12EE1B3			399.2									
229+50.35 to 229+74.74	LT	12EFD30			24.7									
229+62.70 to 232+08.17	RT	12FCD3E			243.1									
229+92.72 to 236+50.00	LT	12FD6B2			748.5									
232+57.29 to 234+54.00	RT	12FB9E5			198.7									
234+70.00 to 236+49.99	RT	7A48DB			183.0									
236+49.99 to 242+18.50	RT	7A4BDD			574.7									
236+50.01 to 239+84.64	LT	12FE99F			331.8									
240+10.47 to 243+50.01	LT	130055F			343.1									
242+30.50 to 242+98.57	RT	7A4AD1			68.1									
243+10.57 to 243+49.99	RT	7A4A38			39.4									
243+49.99 to 244+44.57	RT	1307DD2			94.6									
243+50.01 to 248+14.04	LT	130F633			465.3									
				SUB-TOTAL:	13226.7									
				TOTAL:	26152		19069							

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (30)

SHEET NO.: SQ-30

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF 0570 1 1 SY P	PERFORMANCE TURF 0570 1 1 SY F	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	PREPARED SOIL LAYER 0162 1 31 SY P	PREPARED SOIL LAYER 0162 1 31 SY F	PREPARED SOIL LAYER 0162 1 32 SY P	PREPARED SOIL LAYER 0162 1 32 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
244+56.58 to 247+19.19	RT	7A54A7			262.6									
247+37.19 to 247+61.66	RT	7A5540			24.5									
247+77.67 to 249+28.91	RT	7A5600			151.2									
248+26.04 to 249+79.48	LT	130F650			153.4									
249+40.91 to 250+45.63	RT	7A5695			104.7									
249+91.48 to 250+50.01	LT	13108AB			58.5									
250+50.01 to 254+22.82	LT	1311BC6			396.0									
250+69.63 to 251+84.89	RT	7A5744			115.3									
251+96.33 to 253+76.08	RT	7A591E			179.8									
254+47.51 to 257+53.93	LT	1312E8F			447.8									
255+03.06 to 257+46.98	RT	7A5AC7			243.5									
257+46.47 to 257+82.66	RT	7A5C5C			32.4									
257+53.32 to 258+84.21	LT	13167BC			164.9									
258+22.09 to 261+87.26	RT	131D80F			157.0									
258+95.82 to 260+63.03	LT	13171FB			208.8									
260+71.16 to 261+41.14	LT	13197C3			85.3									
300+30.74 to 304+04.42	LT	134AD89			764.3									
300+80.40 to 304+04.39	RT	1347F1F			609.1									
304+69.94 to 307+00.00	LT	134ADF6			491.6									
304+86.00 to 307+14.28	RT	1347F70			371.7									
307+00.00 to 311+38.75	LT	134BA69			809.1									
307+26.02 to 308+39.44	RT	1347F91			161.2									
308+51.20 to 311+00.00	RT	1348B32			439.5									
311+51.25 to 314+00.00	LT	134BA7F			333.6									
311+89.11 to 314+00.00	RT	1348B54			332.7									
314+00.00 to 321+00.00	RT	134DB33			1364.6									
314+00.00 to 321+00.00	LT	134E9BC			2807.9									
321+00.00 to 325+61.98	RT	134F773			590.6									
321+03.71 to 326+00.92	LT	135195F			689.7									
414+04.74 to 416+43.44	LT	135A401			148.0									
416+56.55 to 418+00.00	LT	135A4C6			179.7									
502+76.27 to 504+20.00	LT	133467C			46.1									
166+66.70 to 170+14.83	LT	12A806E					81.8							
167+05.98 to 170+13.72	LT	12A2AEF					102.5							
167+23.38 to 173+50.00	RT	12A274F					139.0							
167+23.59 to 173+50.00	RT	33F7D					200.5							
170+34.83 to 172+54.27	LT	13365CB					48.9							
170+36.06 to 172+39.96	LT	1336F03					63.2							
171+40.51 to 173+50.00	LT/RT	12A483A					438.8							
172+66.24 to 173+50.00	LT	13378D7					18.7							
172+80.12 to 173+50.00	LT	13378B3					19.2							
173+50.00 to 175+61.34	LT	12ABB85					68.3							
173+50.00 to 180+50.00	RT	12A939C					155.8							
173+50.00 to 175+61.46	LT	12AD7CC					47.0							
173+50.00 to 179+00.00	LT/RT	12ABB3E					1169.3							
				SUB-TOTAL:	12924.9		2552.9							

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (31)

SHEET NO.: SQ-31

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF 0570 1 1 SY P	PERFORMANCE TURF 0570 1 1 SY F	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	PREPARED SOIL LAYER 0162 1 31 SY P	PREPARED SOIL LAYER 0162 1 31 SY F	PREPARED SOIL LAYER 0162 1 32 SY P	PREPARED SOIL LAYER 0162 1 32 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
173+50.00 to 180+27.76	RT	12A9351					223.7							
175+73.46 to 177+77.60	LT	12AFCC6					45.4							
175+73.58 to 177+77.53	LT	33D8A					63.6							
177+89.60 to 180+50.00	LT	12B062D					57.9							
177+89.62 to 180+50.00	LT	33DBF					84.5							
180+50.00 to 181+82.63	RT	12B63FF					29.9							
180+50.00 to 182+07.19	LT	12B769D					105.0							
182+28.03 to 185+97.30	RT	12BC2D1					124.1							
182+32.67 to 186+03.77	RT	12BD9D0					91.7							
182+37.26 to 187+50.00	LT	12C1226					117.2							
182+48.86 to 187+50.00	LT	340DC					168.3							
185+33.00 to 187+50.00	LT/RT	32746					419.9							
186+15.98 to 187+14.66	RT	12BECAB					21.9							
186+22.12 to 187+08.41	RT	340B2					26.6							
187+26.87 to 187+50.00	RT	12BF5CA					5.1							
187+33.01 to 187+50.00	RT	3412C					4.7							
187+50.00 to 192+02.72	LT	12C40E7					101.4							
187+50.00 to 188+19.51	RT	12C4A83					15.9							
187+50.00 to 191+94.06	LT	12C403C					179.0							
187+50.00 to 188+13.33	RT	34170					19.9							
187+50.00 to 189+15.00	LT/RT	32750					309.5							
188+31.72 to 192+40.10	RT	12C5409					89.8							
188+38.39 to 192+27.39	RT	3429F					126.5							
192+47.49 to 194+50.00	LT	12C8D06					44.0							
192+65.63 to 194+50.00	LT	342C4					58.7							
193+02.83 to 194+50.00	RT	342F7					50.1							
193+03.80 to 194+50.00	RT	12C70BA					33.6							
194+49.99 to 195+21.27	LT	12CB2F6					23.4							
194+50.00 to 195+59.93	RT	12C9691					37.3							
194+50.00 to 197+37.04	LT	12CBCF6					47.0							
194+50.00 to 197+13.34	RT	12CA04E					47.9							
212+68.79 to 215+19.26	RT	12CE30C					46.5							
213+06.15 to 215+09.62	LT	12D1CFB					37.9							
214+00.00 to 215+10.85	LT	12D0062					36.5							
214+00.00 to 215+18.63	RT	12CCFF5					39.9							
215+09.45 to 215+50.00	LT	12DCE3F					8.8							
215+10.58 to 215+50.00	LT	12DBBC0					12.9							
215+18.38 to 215+50.00	RT	12D2F92					10.6							
215+19.09 to 215+50.00	RT	12DA040					7.0							
215+50.00 to 218+59.18	RT	34403					105.5							
215+50.00 to 218+88.19	RT	12E87D9					77.5							
215+50.00 to 215+73.88	LT	12E0590					5.2							
215+50.00 to 215+73.90	LT	12DF304					5.6							
215+86.10 to 218+57.29	LT	34470					86.6							
215+86.11 to 218+88.19	LT	12E9C3B					68.5							
				SUB-TOTAL:			3322.4							

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (32)

SHEET NO.: SQ-32

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF 0570 1 1 SY P	PERFORMANCE TURF 0570 1 1 SY F	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	PREPARED SOIL LAYER 0162 1 31 SY P	PREPARED SOIL LAYER 0162 1 31 SY F	PREPARED SOIL LAYER 0162 1 32 SY P	PREPARED SOIL LAYER 0162 1 32 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
218+86.22 to 218+89.70	LT	1329E3B					4.0							
219+66.16 to 219+79.64	LT	132BAA9					4.1							
219+79.41 to 222+50.87	LT	12EA7CF					61.5							
219+93.08 to 222+49.22	RT	12EA6AF					62.2							
220+22.98 to 222+50.68	LT	12EA777					77.2							
220+27.12 to 222+49.35	RT	12EA64C					73.1							
222+49.19 to 229+29.50	RT	12EB2AB					149.0							
222+49.30 to 229+21.81	RT	34686					220.5							
222+50.64 to 223+19.45	LT	344C1					21.0							
222+50.84 to 223+19.53	LT	12EC55B					15.5							
223+35.03 to 225+45.39	LT	12ECF1E					47.4							
223+35.13 to 225+45.32	LT	34589					66.4							
223+36.00 to 229+49.94	LT/RT	327E5					1285.1							
225+57.22 to 229+50.35	LT	12ED886					88.6							
225+57.58 to 229+50.27	LT	34676					130.1							
229+49.91 to 231+87.13	LT/RT	328AE					490.4							
229+50.26 to 229+74.69	LT	346AE					6.0							
229+50.34 to 229+74.74	LT	12EF402					5.5							
229+66.42 to 232+02.55	RT	12FC3D5					52.6							
229+74.07 to 231+92.54	RT	12FCD64					70.5							
229+92.72 to 236+50.01	LT	12FD6A0					146.1							
229+92.89 to 236+50.00	LT	346E7					217.0							
232+55.32 to 234+54.00	RT	12F45E7					46.1							
232+69.83 to 234+47.96	RT	34802					59.1							
234+70.00 to 236+49.99	RT	12FBA01					40.0							
234+76.07 to 236+50.00	RT	34871					57.1							
235+05.00 to 236+50.00	LT/RT	328BE					278.3							
236+49.84 to 237+35.01	LT/RT	328C8					149.8							
236+49.99 to 242+18.50	RT	130056C					126.3							
236+50.00 to 239+79.20	LT	348A5					155.1							
236+50.00 to 242+11.93	RT	349B3					186.6							
236+50.01 to 239+84.03	LT	12FE025					74.5							
240+14.00 to 243+50.01	LT	12FFC1F					74.8							
240+27.87 to 243+50.07	LT	34929					105.8							
240+30.33 to 243+50.00	LT/RT	328DC					682.2							
242+30.50 to 242+98.57	RT	1300EB4					15.1							
242+36.54 to 242+92.50	RT	349EB					16.9							
243+10.58 to 243+49.99	RT	1306A55					8.8							
243+16.66 to 243+50.00	RT	34A28					10.3							
243+50.00 to 244+44.58	RT	1307464					21.0							
243+50.00 to 248+14.02	LT	34BC6					152.5							
243+50.00 to 244+38.58	RT	34B07					28.6							
243+50.01 to 248+14.04	LT	130F625					103.1							
244+56.58 to 247+19.19	RT	1307DDF					58.4							
244+62.62 to 247+13.11	RT	34E8A					81.8							
247+43.22 to 247+55.55	RT	36367					2.4							
				SUB-TOTAL:			5828.2							

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (33)

SHEET NO.: SQ-33

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF 0570 1 1 SY P	PERFORMANCE TURF 0570 1 1 SY F	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	PREPARED SOIL LAYER 0162 1 31 SY P	PREPARED SOIL LAYER 0162 1 31 SY F	PREPARED SOIL LAYER 0162 1 32 SY P	PREPARED SOIL LAYER 0162 1 32 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
247+77.66 to 249+28.91	RT	1309024					33.6							
247+83.69 to 249+22.80	RT	34EB5					44.6							
248+26.04 to 249+79.48	LT	130F63A					34.1							
248+26.08 to 249+79.46	LT	34C23					46.7							
249+40.91 to 250+45.63	RT	130E2D6					23.3							
249+46.94 to 250+39.55	RT	34FE0					29.1							
249+91.48 to 250+50.01	LT	130FF7C					13.0							
249+91.57 to 250+50.00	LT	34C7A					17.3							
250+50.00 to 254+17.28	LT	34D03					178.9							
250+50.00 to 251+14.00	LT/RT	328EF					104.5							
250+50.01 to 254+22.36	LT	1311206					83.0							
250+69.63 to 251+84.89	RT	13124FE					25.6							
250+75.68 to 251+78.77	RT	3508C					32.6							
251+96.33 to 253+76.08	RT	1312535					40.0							
252+02.39 to 253+70.03	RT	350EA					54.1							
253+88.08 to 254+91.06	RT	131253C					22.9							
253+94.09 to 254+85.02	RT	351F0					28.6							
254+52.26 to 257+53.29	LT	1312E7A					67.1							
254+66.20 to 257+52.58	LT	35410					94.4							
255+03.06 to 257+47.11	RT	13137F1					54.1							
255+09.07 to 257+47.59	RT	353B6					78.6							
255+30.33 to 257+50.54	LT/RT	32909					467.4							
257+47.00 to 257+76.16	RT	131544D					6.1							
257+47.41 to 257+65.88	RT	1314AD8					4.6							
257+49.47 to 259+09.66	LT/RT	32914					338.5							
257+52.41 to 258+84.11	LT	354DE					42.6							
257+53.18 to 258+84.18	LT	1315DF4					30.0							
258+25.29 to 261+87.39	RT	131BF04					78.0							
258+35.62 to 260+00.00	RT	131F6C8					49.8							
258+95.82 to 260+63.71	LT	1316807					38.4							
258+95.90 to 260+00.00	LT	35728					33.2							
260+76.14 to 261+41.21	LT	13184E2					14.8							
300+30.71 to 300+83.82	LT	134554A					5.9							
300+32.88 to 300+83.73	LT	133F644					87.9							
300+70.00 to 304+31.65	RT	134224D					186.1							
300+83.33 to 302+61.60	LT	13494A7					219.8							
300+83.81 to 302+61.62	LT	134A087					19.8							
302+61.38 to 304+21.53	LT	133F638					102.5							
302+61.62 to 304+29.09	LT	1345586					18.6							
304+69.94 to 307+00.00	LT	134ADC0					24.8							
304+70.39 to 307+00.00	LT	1344098					98.6							
304+87.74 to 307+00.00	RT	1345532					118.8							
307+00.00 to 311+38.75	LT	134AE0C					46.8							
SUB-TOTAL:							3138.8							

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (34)

SHEET NO.: SQ-34

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF 0570 1 1 SY P	PERFORMANCE TURF 0570 1 1 SY F	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	PREPARED SOIL LAYER 0162 1 31 SY P	PREPARED SOIL LAYER 0162 1 31 SY F	PREPARED SOIL LAYER 0162 1 32 SY P	PREPARED SOIL LAYER 0162 1 32 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
307+00.00 to 311+34.18	LT	1347CEF					177.9							
307+00.00 to 307+12.87	RT	1346167					5.9							
307+27.36 to 308+38.06	RT	1346178					59.3							
308+52.57 to 311+00.01	RT	1346BC1					139.7							
311+51.25 to 314+00.00	LT	134BA8E					26.5							
311+55.56 to 311+73.20	LT	3580B					5.5							
311+76.85 to 314+00.00	RT	13475A9					124.0							
311+77.53 to 314+00.00	LT	357E0					95.2							
314+00.00 to 320+88.44	LT	134DD1D					76.7							
314+00.00 to 320+82.68	LT	134DBD8					302.5							
314+00.00 to 321+00.00	RT	134C849					388.6							
321+00.00 to 325+62.04	RT	134F715					253.6							
321+10.96 to 326+01.93	LT	13506F3					58.2							
321+16.98 to 325+72.59	LT	134F851					209.8							
414+04.76 to 416+43.79	LT/RT	135A17F					447.1							
414+05.00 to 416+43.47	LT	135A37F					25.1							
414+10.43 to 416+69.37	RT	13595A4					717.1							
416+56.18 to 418+00.00	LT/RT	135A2ED					274.8							
416+56.53 to 416+88.48	LT	135A42A					3.3							
416+72.60 to 417+99.98	RT	135A0DA					298.4							
500+87.68 to 502+10.00	RT	1331C82					146.6							
500+97.37 to 502+09.99	LT	1332791					261.5							
501+05.66 to 502+10.00	RT	1328989					34.0							
502+10.00 to 502+41.32	RT	1333CBC					11.3							
502+65.90 to 504+20.00	RT	1333CC0					83.7							
				SUB-TOTAL:			4226.2							

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

SUMMARY OF QUANTITIES (35)

SHEET NO.: SQ-35

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-99	167+06.21	LT.	Pipe, MES	1		46																									
F																																
P	S-100	166+75.00	LT.	Inlet, Pipe	1		60																	1								
F																																
P	S-100A	167+35.00	LT.	MES																												
F																																
P	S-101	167+35.00	RT.	Pipe, Inlet, Pipe	1	53												100				1										
F																																
P	S-101A	167+35.00	LT.	MH, Pipe	1						63																				1	
F																																
P	S-102	168+30.00	RT.	Inlet, Pipe	1													98											1			
F																																
P	S-103	169+00.00	RT.	Inlet, Pipe	1		99													1												
F																																
P	S-104	169+00.00	LT.	Inlet, Pipe	1		66													1												
F																																
P	S-104A	169+00.00	LT.	MES																												
F																																
P	S-105	171+50.00	RT.	Inlet, Pipe	1		85													1												
F																																
P	S-106	171+50.00	LT.	Inlet, Pipe	1							150										1										
F																																
P	CS-106A	170+30.80	LT.	Inlet, Pipe	1						70																			1		
F																																
P	S-106B	170+60.00	LT.	MH, Pipe	1						90																				1	
F																																
P	S-107	172+50.00	RT.	Inlet, Pipe	1		100																			1						
F																																
P	S-108	173+00.00	LT.	EW, Pipe	1					13																						
F																																
P	S-108A	173+00.00	LT.	MH, Pipe	1							200																			1	
F																																
P	S-109	174+50.00	RT.	Inlet, Pipe	1		50																			1						
F																																
P	S-110	175+00.00	RT.	Inlet, Pipe	1			80																1								
F																																
P	S-111	175+00.00	LT.	Inlet, Pipe	1							113													1								
F																																
Sheet Summary				P Total		53	506	80	0	13	223	463	0	0	0	0	0	198	0	3	0	2	0	2	1	0	2	0	1	1	0	3	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (1A)

SHEET NO.: 14

	QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
							<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P		S-99	167+06.21	LT.	Pipe, MES	1		1												
F																				
P		S-100	166+75.00	LT.	Inlet, Pipe	1														
F																				
P		S-100A	167+35.00	LT.	MES									1						
F																				
P		S-101	167+35.00	RT.	Pipe, Inlet, Pipe	1														W/ J-BOTTOM (5'x5')
F																				
P		S-101A	167+35.00	LT.	MH, Pipe	1														W/ J-BOTTOM (7' DIA.)
F																				
P		S-102	168+30.00	RT.	Inlet, Pipe	1														
F																				
P		S-103	169+00.00	RT.	Inlet, Pipe	1														
F																				
P		S-104	169+00.00	LT.	Inlet, Pipe	1														
F																				
P		S-104A	169+00.00	LT.	MES			1												
F																				
P		S-105	171+50.00	RT.	Inlet, Pipe	1														
F																				
P		S-106	171+50.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																				
P		CS-106A	170+30.80	LT.	Inlet, Pipe	1														See Drainage Details (2)
F																				
P		S-106B	170+60.00	LT.	MH, Pipe	1														W/ J-BOTTOM (7' DIA.)
F																				
P		S-107	172+50.00	RT.	Inlet, Pipe	1														
F																				
P		S-108	173+00.00	LT.	EW, Pipe	1												1	8	
F																				
P		S-108A	173+00.00	LT.	MH, Pipe	1														W/ J-BOTTOM (5'x6')
F																				
P		S-109	174+50.00	RT.	Inlet, Pipe	1														
F																				
P		S-110	175+00.00	RT.	Inlet, Pipe	1														
F																				
P		S-111	175+00.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																				
		Sheet Summary			P Total		0	2	0	0	0	0	0	1	0	0	0	1	8	
					F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (1B)

SHEET NO.: 15

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-111A	176+10.00	LT.	MH, Pipe	1							145																			1	
F																																
P	S-111B	176+10.00	LT.	Inlet, Pipe	1		12																				1						
F																																
P	S-112	176+65.00	RT.	Inlet, Pipe	1		150																				1						
F																																
P	S-113	178+15.00	RT.	Inlet, Pipe	1		79													1													
F																																
P	S-114	177+55.00	LT.	Inlet, Pipe	1		12																				1						
F																																
P	S-114A	177+55.00	LT.	MH, Pipe	1								60																			1	
F																																
P	S-115	178+15.00	LT.	Inlet, Pipe	1								135									1											
F																																
P	S-116	179+27.00	RT.	Inlet, Pipe	1					55																	1						
F																																
P	S-116A	179+27.00	LT.	MH, Pipe	1					40																						1	
F																																
P	S-117	179+50.00	LT.	Inlet, Pipe	1			12																			1						
F																																
P	S-117A	179+50.00	LT.	MH, Pipe	1								90																			1	
F																																
P	S-118	180+40.00	LT.	Inlet, Pipe	1								60													1							
F																																
P	S-119	180+40.00	RT.	Inlet, Pipe	1		91																	1									
F																																
P	S-120	181+00.00	LT.	Inlet, Pipe	1		9																				1						
F																																
P	S-120A	181+00.00	LT.	MH, Pipe	1								107																				1
F																																
P	S-121	181+69.50	RT.	Inlet, Pipe	1		69																	1									
F																																
P	S-122	182+38.50	RT.	Inlet, Pipe	1		12																	1									
F																																
P	S-123	182+50.00	RT.	Inlet, Pipe	1		51																				1						
F																																
P	S-124	183+00.00	RT.	Inlet, Pipe	1		91													1													
F																																
Sheet Summary				P Total		0	576	12	0	95	0	145	452	0	0	0	0	0	0	0	2	0	1	0	3	1	0	7	0	0	0	0	4	1
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (2A)

SHEET NO.: 16

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
						<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P	S-111A	176+10.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-111B	176+10.00	LT.	Inlet, Pipe	1														
F																			
P	S-112	176+65.00	RT.	Inlet, Pipe	1														
F																			
P	S-113	178+15.00	RT.	Inlet, Pipe	1														
F																			
P	S-114	177+55.00	LT.	Inlet, Pipe	1														
F																			
P	S-114A	177+55.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-115	178+15.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-116	179+27.00	RT.	Inlet, Pipe	1														
F																			
P	S-116A	179+27.00	LT.	MH, Pipe	1														W/ J-BOTTOM (5'x5')
F																			
P	S-117	179+50.00	LT.	Inlet, Pipe	1														
F																			
P	S-117A	179+50.00	LT.	MH, Pipe	1														W/ J-BOTTOM (5'x6')
F																			
P	S-118	180+40.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-119	180+40.00	RT.	Inlet, Pipe	1														
F																			
P	S-120	181+00.00	LT.	Inlet, Pipe	1														
F																			
P	S-120A	181+00.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-121	181+69.50	RT.	Inlet, Pipe	1														
F																			
P	S-122	182+38.50	RT.	Inlet, Pipe	1														
F																			
P	S-123	182+50.00	RT.	Inlet, Pipe	1														
F																			
P	S-124	183+00.00	RT.	Inlet, Pipe	1														
F																			
Sheet Summary				P Total		0	0	0	0	0	0	0	0	0	0	0	0	0	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

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7650 WEST COURTNEY CAMPBELL CAUSEWAY
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CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (2B)

SHEET NO.: 17

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-125	183+00.00	LT.	Inlet, Pipe	1								151										1										
F																																	
P	S-125A	182+06.00	LT.	MH, Pipe	1								94																				1
F																																	
P	S-125B	182+07.00	LT.	MH, Pipe	1		21																							1			
F																																	
P	S-126	184+50.00	LT.	Inlet, Pipe	1		11																			1							
F																																	
P	S-126A	184+50.00	LT.	MH, Pipe	1								117																				1
F																																	
P	S-127	185+65.00	LT.	Inlet, Pipe	1		12																			1							
F																																	
P	S-127A	185+65.00	LT.	MH, Pipe	1								20																				1
F																																	
P	S-128	185+85.00	LT.	Inlet, Pipe	1								274										1										
F																																	
P	S-129	185+85.00	RT.	Inlet, Pipe	1		79													1													
F																																	
P	S-130	NOT USED																															
F																																	
P	S-131	188+55.00	LT.	Inlet, Pipe	1								283										1										
F																																	
P	S-132	188+55.00	RT.	Inlet, Pipe	1		79													1													
F																																	
P	S-133	192+59.00	RT.	Inlet, Pipe	1											96												1					
F																																	
P	S-134	191+35.00	LT.	Inlet, Pipe	1								90										1										
F																																	
P	S-135	192+05.80	LT.	Inlet, Pipe	1		80																	1									
F																																	
P	S-136	191+35.00	RT.	Inlet, Pipe	1								71										1										
F																																	
P	S-137	192+05.80	RT.	MH, Pipe	1								46																				1
F																																	
P	S-138	192+49.50	RT.	Inlet, Pipe	1														36						1								
F																																	
P	S-139	192+85.50	RT.	Inlet, Pipe	1								71												1								
F																																	
Sheet Summary				P Total		0	282	0	0	0	0	0	1217	0	0	96	0	0	36	2	0	0	5	1	0	2	2	1	0	0	1	0	4
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (3A)

SHEET NO.: 18

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
						<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P	S-125	183+00.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-125A	182+06.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-125B	182+07.00	LT.	MH, Pipe	1														
F																			
P	S-126	184+50.00	LT.	Inlet, Pipe	1														
F																			
P	S-126A	184+50.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
P	S-127	185+65.00	LT.	Inlet, Pipe	1														
F																			
P	S-127A	185+65.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-128	185+85.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-129	185+85.00	RT.	Inlet, Pipe	1														
F																			
P	S-130	NOT USED																	
F																			
P	S-131	188+55.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-132	188+55.00	RT.	Inlet, Pipe	1														
F																			
P	S-133	192+59.00	RT.	Inlet, Pipe	1														
F																			
P	S-134	191+35.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-135	192+05.80	LT.	Inlet, Pipe	1														
F																			
P	S-136	191+35.00	RT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-137	192+05.80	RT.	MH, Pipe	1														W/ J-BOTTOM (7' DIA.)
F																			
P	S-138	192+49.50	RT.	Inlet, Pipe	1														W/ J-BOTTOM (7' DIA.)
F																			
P	S-139	192+85.50	RT.	Inlet, Pipe	1														W/ J-BOTTOM (7' DIA.)
F																			
Sheet Summary				P Total		0	0	0	0	0	0	0	0	0	0	0	0	0	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (3B)

SHEET NO.: 19

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-139A	193+46.00	RT.	MES																												
F																																
P	S-140	193+52.00	RT.	MES																												
F																																
P	S-141	195+12.00	LT.	Inlet, Pipe	1		96														1											
F																																
P	S-141A	192+75.38	LT.	Inlet, Pipe	1		233																	1								
F																																
P	S-142	194+70.00	RT.	Inlet, Pipe	1			61													1											
F																																
P	S-142A	194+65.00	RT.	MES																												
F																																
P	S-143	196+75.00	RT.	Inlet, Pipe	1		208																									
F																																
P	S-144	196+75.00	LT.	Inlet, Pipe	1		43																						1			
F																																
P	S-145	196+75.00	LT.	Inlet, Pipe	1		43																									
F																																
P	CS-146	195+95.00	RT.	Inlet, Pipe	2					774																				1		
F																																
P	S-146A	199+55.00	RT.	EW																												
F																																
P	S-200	313+20.00	LT.	Inlet, Pipe	1		290																	1								
F																																
P	S-201	316+20.00	LT.	Inlet, Pipe	1			200												1												
F																																
P	S-201A	314+90.00	RT.	MES, Pipe	1			115																								
F																																
P	S-201B	315+07.00	LT.	MES																												
F																																
P	S-202	318+20.00	LT.	Inlet, Pipe	1				158															1								
F																																
P	S-202A	318+90.00	RT.	MES																												
F																																
P	S-203	319+50.00	LT.	Inlet, Pipe	1				133											1												
F																																
P	S-204	322+35.00	LT.	Inlet, Pipe	1			295												1												
F																																
Sheet Summary				P Total		0	913	671	291	774	0	0	0	0	0	0	0	0	0	3	2	0	0	3	0	0	0	0	1	1	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (4A)

SHEET NO.: 20

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
						<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P	S-139A	193+46.00	RT.	MES										1					
F																			
P	S-140	193+52.00	RT.	MES							1								
F																			
P	S-141	195+12.00	LT.	Inlet, Pipe	1														
F																			
P	S-141A	192+75.38	LT.	Inlet, Pipe	1														
F																			
P	S-142	194+70.00	RT.	Inlet, Pipe	1														
F																			
P	S-142A	194+65.00	RT.	MES					1										
F																			
P	S-143	196+75.00	RT.	Inlet, Pipe	1	1													
F																			
P	S-144	196+75.00	LT.	Inlet, Pipe	1														
F																			
P	S-145	196+75.00	LT.	Inlet, Pipe	1	1													
F																			
P	CS-146	195+95.00	RT.	Inlet, Pipe	2														See Drainage Details (2)
F																			
P	S-146A	199+55.00	RT.	EW												1			with grate
F																			
P	S-200	313+20.00	LT.	Inlet, Pipe	1														
F																			
P	S-201	316+20.00	LT.	Inlet, Pipe	1														
F																			
P	S-201A	314+90.00	RT.	MES, Pipe	1				1										
F																			
P	S-201B	315+07.00	LT.	MES					1										
F																			
P	S-202	318+20.00	LT.	Inlet, Pipe	1														
F																			
P	S-202A	318+90.00	RT.	MES						1									
F																			
P	S-203	319+50.00	LT.	Inlet, Pipe	1														
F																			
P	S-204	322+35.00	LT.	Inlet, Pipe	1														
F																			
Sheet Summary				P Total		2	0	0	3	1	1	0	0	1	0	0	1	0	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.

FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (4B)

SHEET NO.: 21

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-205	325+40.00	LT.	Inlet, Pipe	1			317																1									
F																																	
m	CS-206	325+32.40	RT.	Inlet, Pipe	1			183																					1				
F																																	
P	S-206A	218+90.00	RT.	Inlet, Pipe	1			46																				1					
F																																	
P	S-206B	218+51.00	RT.	MH, Pipe	1			307																								1		
F																																	
P	S-206C	215+50.00	RT.	MH, Pipe	1			386																								1		
F																																	
P	S-206D	211+72.00	RT.	EW																													
F																																	
P	S-207	309+00.00	LT.	Flume																													
F																																	
P	S-208	308+20.00	LT.	Flume																													
F																																	
P	S-209	303+00.00	LT.	Flume																													
F																																	
P	S-210	300+75.00	LT.	Inlet, Pipe	1		39																	1									
F																																	
P	S-211	301+06.00	LT.	EW, Pipe	1		43																										
F																																	
P	S-299	213+07.55	LT.	Inlet, Pipe	1					67																							
F																																	
P	S-300	213+75.00	LT.	Inlet, Pipe	1						173																						
F																																	
P	S-300A	213+75.00	LT.	Inlet, Pipe	1				41																					1			
F																																	
P	S-301	212+76.50	RT.	Inlet, Pipe	1				110																								
F																																	
P	S-302	215+50.00	LT.	Inlet, Pipe	1							286													1								
F																																	
P	S-303	215+50.00	RT.	Inlet, Pipe	1		79																	1									
F																																	
P	S-304	218+40.00	LT.	Inlet, Pipe	1								210									1											
F																																	
P	S-304A	501+27.00	LT.	Inlet, Pipe	1		43																	1									
F																																	
Sheet Summary				P Total		0	204	1239	151	67	173	286	210	0	0	0	0	0	0	0	0	0	1	0	4	1	0	0	1	1	0	2	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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SCALE: AS NOTED
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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (5A)

SHEET NO.: 22

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
						<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P	S-205	325+40.00	LT.	Inlet, Pipe	1														
F																			
m	CS-206	325+32.40	RT.	Inlet, Pipe	1														See Drainage Details (2)
F																			
P	S-206A	218+90.00	RT.	Inlet, Pipe	1														
F																			
P	S-206B	218+51.00	RT.	MH, Pipe	1														
F																			
P	S-206C	215+50.00	RT.	MH, Pipe	1														
F																			
P	S-206D	211+72.00	RT.	EW												1			
F																			
P	S-207	309+00.00	LT.	Flume											1				
F																			
P	S-208	308+20.00	LT.	Flume											1				
F																			
P	S-209	303+00.00	LT.	Flume											1				
F																			
P	S-210	300+75.00	LT.	Inlet, Pipe	1														
F																			
P	S-211	301+06.00	LT.	EW, Pipe	1											1			Tie-in to existing structure
F																			
P	S-299	213+07.55	LT.	Inlet, Pipe	1	1													Median barrier inlet
F																			
P	S-300	213+75.00	LT.	Inlet, Pipe	1	1													Median barrier inlet
F																			
P	S-300A	213+75.00	LT.	Inlet, Pipe	1														
F																			
P	S-301	212+76.50	RT.	Inlet, Pipe	1	1													Median barrier inlet
F																			
P	S-302	215+50.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-303	215+50.00	RT.	Inlet, Pipe	1														
F																			
P	S-304	218+40.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-304A	501+27.00	LT.	Inlet, Pipe	1														
F																			
Sheet Summary				P Total		3	0	0	0	0	0	0	0	0	0	3	2	0	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.

FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (5B)

SHEET NO.: 23

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-304B	501+27.12	RT.	Inlet, Pipe	1		75																	1									
F																																	
P	S-304C	220+20.00	LT.	MH, Pipe	1		53																								1		
F																																	
P	S-305	218+40.00	RT.	Inlet, Pipe	1		92													1													
F																																	
P	S-306	220+50.00	LT.	Inlet, Pipe	1								162									1											
F																																	
P	S-307	220+50.00	RT.	Inlet, Pipe	1		91													1													
F																																	
P	S-308	222+10.00	LT.	Inlet, Pipe	1								243												1								
F																																	
P	S-309	222+10.00	RT.	Inlet, Pipe	1		89																	1									
F																																	
P	S-310	224+50.00	LT.	Inlet, Pipe	1								78									1											
F																																	
P	S-311	224+50.00	RT.	Inlet, Pipe	1								48									1											
F																																	
P	S-311A	224+50.00	RT.	MES																													
F																																	
P	S-312	227+00.00	LT.	Inlet, Pipe	1									78									1										
F																																	
P	S-313	227+00.00	RT.	Inlet, Pipe	1									85									1										
F																																	
P	S-313A	226+34.00	RT.	MES																													
F																																	
P	S-314	230+20.00	LT.	Inlet, Pipe	1									323											1								
F																																	
P	S-315	230+20.00	RT.	Inlet, Pipe	1		83																	1									
F																																	
P	S-316	233+00.00	LT.	Inlet, Pipe	1									280									1										
F																																	
P	S-316A	232+36.00	LT.	MES																													
F																																	
P	S-317	233+00.00	RT.	Inlet, Pipe	1		79													1													
F																																	
P	S-318	236+00.00	LT.	Inlet, Pipe	1									300									1										
F																																	
Sheet Summary				P Total		0	562	0	0	0	0	0	531	1066	0	0	0	0	0	3	0	3	4	3	2	0	0	0	0	0	1	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (6A)

SHEET NO.: 24

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
						<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P	S-304B	501+27.12	RT.	Inlet, Pipe	1														
F																			
P	S-304C	220+20.00	LT.	MH, Pipe	1														
F																			
P	S-305	218+40.00	RT.	Inlet, Pipe	1														
F																			
P	S-306	220+50.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (8' DIA.)
F																			
P	S-307	220+50.00	RT.	Inlet, Pipe	1														
F																			
P	S-308	222+10.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-309	222+10.00	RT.	Inlet, Pipe	1														
F																			
P	S-310	224+50.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-311	224+50.00	RT.	Inlet, Pipe	1														W/ J-BOTTOM (6'x6')
F																			
P	S-311A	224+50.00	RT.	MES										1					
F																			
P	S-312	227+00.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (7'x7')
F																			
P	S-313	227+00.00	RT.	Inlet, Pipe	1														W/ J-BOTTOM (8' DIA.)
F																			
P	S-313A	226+34.00	RT.	MES											1				
F																			
P	S-314	230+20.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
P	S-315	230+20.00	RT.	Inlet, Pipe	1														
F																			
P	S-316	233+00.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
P	S-316A	232+36.00	LT.	MES				1											New pipe from exist. Struct. 57
F																			
P	S-317	233+00.00	RT.	Inlet, Pipe	1														
F																			
P	S-318	236+00.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
Sheet Summary				P Total		0	0	1	0	0	0	0	0	1	1	0	0	0	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

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P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.

FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (6B)

SHEET NO.: 25

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-319	236+00.00	RT.	Inlet, Pipe	1		79													1													
F																																	
P	S-320	237+92.00	LT.	Inlet, Pipe	1									192											1								
F																																	
P	S-320A	239+00.00	LT.	MH, Pipe	1									108																		1	
F																																	
P	S-320B	239+00.00	LT.	MES, Pipe	1										97																		
F																																	
P	S-321	237+92.00	RT.	Inlet, Pipe	1		79																	1									
F																																	
P	S-322	240+50.00	LT.	Inlet, Pipe	1									150								1											
F																																	
P	S-323	240+50.00	RT.	Inlet, Pipe	1		91													1													
F																																	
P	S-324	244+04.33	LT.	Inlet, Pipe	1								355												1								
F																																	
P	S-325	244+04.33	RT.	Inlet, Pipe	1												79							1									
F																																	
P	S-325A	242+75.00	RT.	Inlet, Pipe	1		129																				1						
F																																	
P	S-325B	245+65.00	RT.	Inlet, Pipe	1			161																			1						
F																																	
P	S-326	246+95.00	LT.	Inlet, Pipe	1								291									1											
F																																	
P	S-327	246+95.00	RT.	Inlet, Pipe	1		79													1													
F																																	
P	S-328	250+40.00	LT.	Inlet, Pipe	1							340													1								
F																																	
P	S-329	250+25.00	RT.	Inlet, Pipe	1					79															1								
F																																	
P	S-329A	248+00.00	RT.	Inlet, Pipe	1		166																				1						
F																																	
P	S-329B	249+66.00	RT.	Inlet, Pipe	1			60																			1						
F																																	
P	S-329C	250+86.00	RT.	Inlet, Pipe	1		62																				1						
F																																	
P	S-330	253+40.00	LT.	Inlet, Pipe	1						299											1											
F																																	
	Sheet Summary			P Total		0	685	221	0	79	299	340	646	450	97	0	79	0	0	3	0	3	0	2	4	0	5	0	0	0	0	1	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (7A)

SHEET NO.: 26

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
						<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P	S-319	236+00.00	RT.	Inlet, Pipe	1														
F																			
P	S-320	237+92.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
P	S-320A	239+00.00	LT.	MH, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
P	S-320B	239+00.00	LT.	MES, Pipe	1			1											
F																			
P	S-321	237+92.00	RT.	Inlet, Pipe	1														
F																			
P	S-322	240+50.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x7')
F																			
P	S-323	240+50.00	RT.	Inlet, Pipe	1														
F																			
P	S-324	244+04.33	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-325	244+04.33	RT.	Inlet, Pipe	1														
F																			
P	S-325A	242+75.00	RT.	Inlet, Pipe	1														
F																			
P	S-325B	245+65.00	RT.	Inlet, Pipe	1														
F																			
P	S-326	246+95.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
P	S-327	246+95.00	RT.	Inlet, Pipe	1														
F																			
P	S-328	250+40.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (5'x6')
F																			
P	S-329	250+25.00	RT.	Inlet, Pipe	1														W/ J_BOTTOM (4'x4')
F																			
P	S-329A	248+00.00	RT.	Inlet, Pipe	1														
F																			
P	S-329B	249+66.00	RT.	Inlet, Pipe	1														
F																			
P	S-329C	250+86.00	RT.	Inlet, Pipe	1														
F																			
P	S-330	253+40.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (4'x6')
F																			
Sheet Summary				P Total		0	0	1	0	0	0	0	0	0	0	0	0	0	
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (7B)

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL														CURB INLETS							DITCH BOTTOM INLETS				MANHOLE		
						ROUND									ELLIPTICAL					P-5	P-5	J-5	J-5	P-6	J-6	J-6	C-MOD	D	E	H	P-7	TYPE J-7	
						12"	18"	24"	30"	36"	42"	48"	54"	60"	14"x23"	19"x30"	24"x38"	34"x53"	43"x68"	<10'	>10'	<10'	>10'	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10	<10	>10
P	S-330A	254+09.00	LT.	MH, Pipe	1					70																					1	
F																																
P	S-330B	254+09.00	LT.	Inlet, Pipe	1		11																				1					
F																																
P	S-331	253+40.00	RT.	Inlet, Pipe	1		79													1												
F																																
P	S-331A	252+65.00	RT.	Inlet, Pipe	1		75																				1					
F																																
P	S-332	256+40.00	LT.	Inlet, Pipe	1					231												1										
F																																
P	S-333	256+40.00	RT.	Inlet, Pipe	1		87													1												
F																																
P	S-333A	255+30.00	RT.	Inlet, Pipe	1		110																				1					
F																																
P	S-334	259+10.00	LT.	MH, Pipe	1				274																					1		
F																																
P	S-335	259+10.00	RT.	Inlet, Pipe	1		84													1												
F																																
P	S-335A	258+55.00	RT.	Inlet, Pipe	1		54																				1					
F																																
P	S-400	191+70.00	RT.	Inlet, Pipe	1											181												1				
F																																
P	S-500	232+61.00	RT.	MH, Pipe	1										129															1		
F																																
Sheet Summary				P Total		0	500	0	274	301	0	0	0	0	129	181	0	0	0	3	0	1	0	0	0	0	4	1	0	0	2	1	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Final Summary				P Total		53	4228	2223	716	1329	695	1234	3056	1516	226	277	79	198	36	19	2	11	9	18	9	2	20	3	3	2	6	9	5
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (8A)

SHEET NO.: 28

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLETS	CROSS DRAIN MES								CLOSED FLUME	STRAIGHT CONC. END WALL	CLASS I CONCRETE	REMARKS
							<10'	18"	14"x23"	24"	30"	19"x30"	36"	42"	54"	60"			CY	
P		S-330A	254+09.00	LT.	MH, Pipe	1														W/ J-BOTTOM (5' DIA.)
F																				
P		S-330B	254+09.00	LT.	Inlet, Pipe	1														
F																				
P		S-331	253+40.00	RT.	Inlet, Pipe	1														
F																				
P		S-331A	252+65.00	RT.	Inlet, Pipe	1														
F																				
P		S-332	256+40.00	LT.	Inlet, Pipe	1														W/ J-BOTTOM (5'x5')
F																				
P		S-333	256+40.00	RT.	Inlet, Pipe	1														
F																				
P		S-333A	255+30.00	RT.	Inlet, Pipe	1														
F																				
P		S-334	259+10.00	LT.	MH, Pipe	1														
F																				
P		S-335	259+10.00	RT.	Inlet, Pipe	1														
F																				
P		S-335A	258+55.00	RT.	Inlet, Pipe	1														
F																				
P		S-400	191+70.00	RT.	Inlet, Pipe	1														
F																				
P		S-500	232+61.00	RT.	MH, Pipe	1														
F																				
Sheet Summary	P Total						0	0	0	0	0	0	0	0	0	0	0	0	0	
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	
Final Summary	P Total						5	2	2	3	1	1	0	1	2	1	3	4	8	
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	

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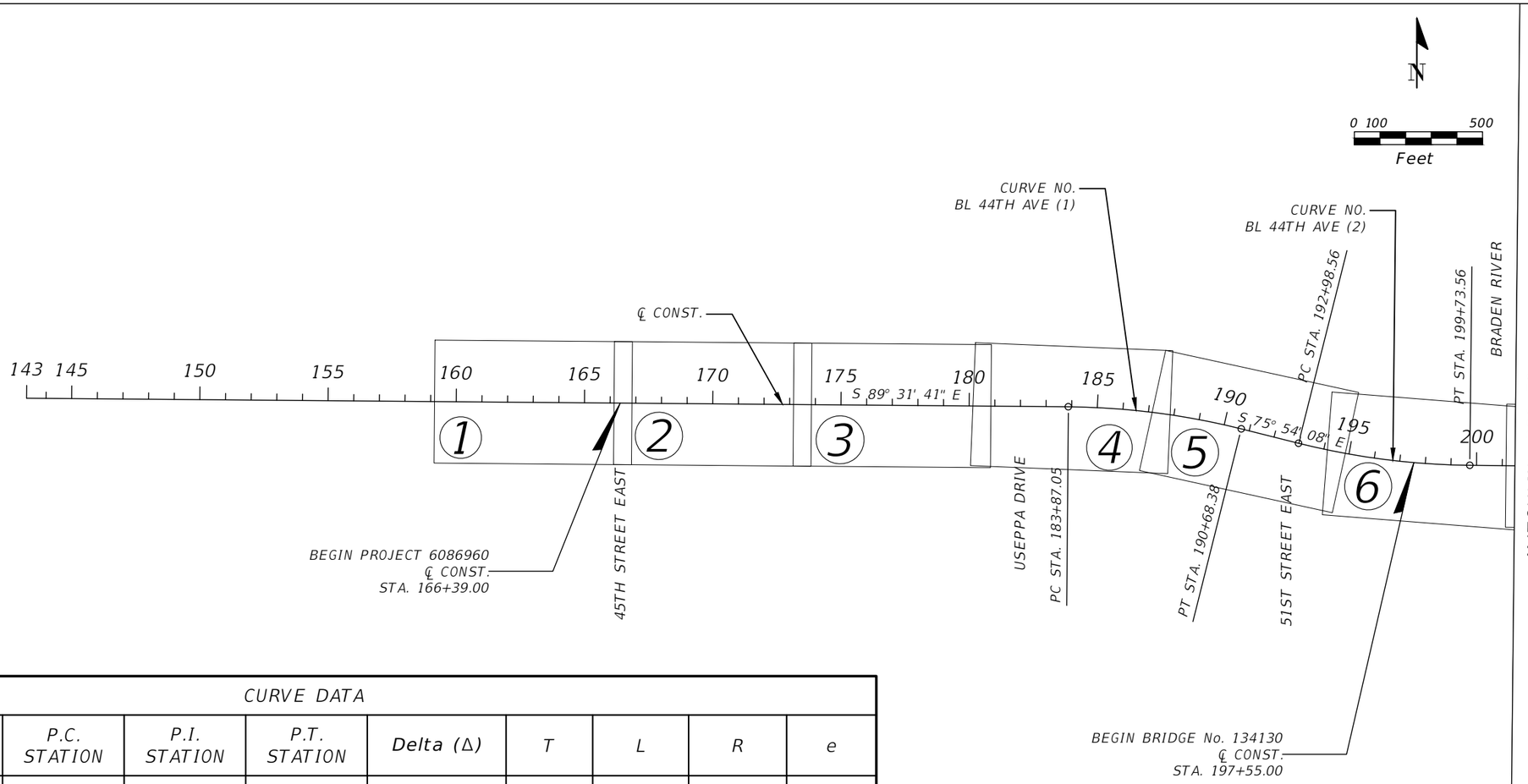
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

SUMMARY OF DRAINAGE STRUCTURES (8B)



CURVE DATA

CURVE NO.	P.C. STATION	P.I. STATION	P.T. STATION	Delta (Δ)	T	L	R	e
BL 44TH AVE (1)	183+87.05	187+29.33	190+68.38	013° 37' 33"	342.28	681.34	2865.00	NC
BL 44TH AVE (2)	192+98.56	196+37.63	199+73.56	013° 29' 56"	339.07	675.00	2865.00	NC
BL 44TH AVE (3)	212+13.19	215+52.26	218+88.19	013° 29' 56"	339.07	675.00	2865.00	NC
BL 44TH AVE (4)	220+72.36	225+26.22	229+75.95	013° 22' 40"	453.86	903.59	3870.00	NC
BL 44TH AVE (5)	257+58.16	260+14.43	262+67.27	016° 12' 19"	256.26	509.11	1800.00	RC
BL 44TH AVE (6)	262+67.27	265+11.83	267+44.86	030° 24' 16"	244.56	477.59	900.00	0.023
BL MORGAN JOHNSON (12)	500+00.00	501+48.85	502+95.51	016° 59' 59"	148.85	295.51	996.00	0.043
BL CARUSO RD (13)	318+47.36	322+80.11	326+61.64	047° 59' 55"	432.75	814.28	972.00	RC
BL CARUSO RD (14)	305+26.55	311+23.89	316+00.07	062° 34' 21"	597.35	1073.53	983.00	RC
BL CARUSO RD RAMP (15)	414+89.22	416+33.68	417+56.76	053° 35' 50"	144.46	267.54	286.00	0.050

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

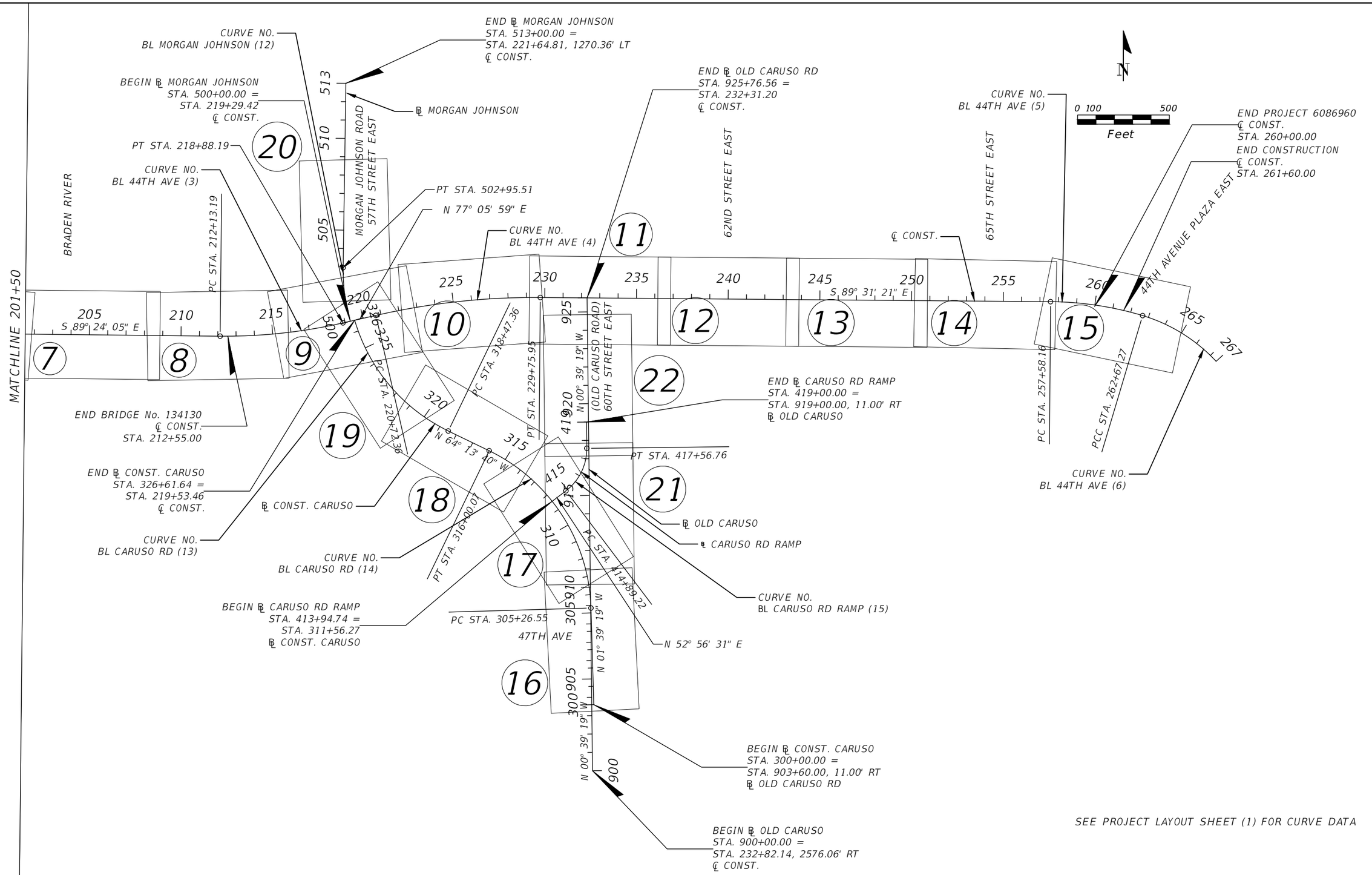
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROJECT LAYOUT (1)

SHEET NO. 30

Mitch Johnson 2/7/2019 8:31:35 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLAYRD01.dwg

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SEE PROJECT LAYOUT SHEET (1) FOR CURVE DATA

No.	REVISIONS	DATE	BY

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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

PROJECT LAYOUT (2)

SHEET NO.: 31

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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23004, F.A.C.

GENERAL NOTES

1. BM DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD – 88) NGVD29 – 0.97 = NAVD88

2. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.

3. THE REMOVAL OF ANY DRAINAGE STRUCTURE OR PIPE WITHIN 5.0 FEET OF ANY UTILITY THAT IS IN SERVICE SHALL BE ACCOMPLISHED SO AS NOT TO DAMAGE THE UTILITY.

4. ANY PORTION OF THE EXISTING RIGHT OF WAY THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REDRESSED AND SODDED AT THE CONTRACTOR'S EXPENSE.

5. PRIOR TO CONSTRUCTION, A SITE PLAN WITH ANY AREAS OF THE RIGHT OF WAY INTENDED TO BE UTILIZED FOR STAGING CONSTRUCTION EQUIPMENT OR MATERIAL STORAGE SHALL BE SUBMITTED FOR THE APPROVAL OF THE ENGINEER. THE PLAN SHALL SHOW THE PROPOSED LOCATIONS FOR PARKING IDLE EQUIPMENT, DESIGNATED LOCATIONS FOR EMPLOYEE PARKING, AND WORK STAGING AREAS. THE SITE PLAN MUST BE UPDATED AND MAINTAINED VIA SUBMITTALS AND APPROVALS FOR THE DIFFERENT PHASES OF CONSTRUCTION THROUGHOUT THE LIFE OF THE PROJECT.

6. NO STOCKPILE OF MATERIAL IS PERMITTED WITHIN THE PROJECT LIMITS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

7. ALL BOTTOM PROFILE ELEVATIONS AND CROSS SECTIONS FOR TREATMENT/ATTENUATION SWALES SHALL BE CONSTRUCTED TO WITHIN ±0.1 FEET OF THE VALUES SHOWN ON THE PLANS.

8. EXISTING DRIVEWAYS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS. REFER TO MANATEE COUNTY STANDARD 101.1 FOR URBAN DRIVEWAY CONSTRUCTION.

9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING DRAINAGE INVERT ELEVATIONS THAT WILL REMAIN PART OF THE PROPOSED DRAINAGE SYSTEM. ANY DIFFERENCE FROM PLAN ELEVATION SHALL BE REPORTED TO THE ENGINEER.

10. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED, UNLESS OTHERWISE NOTED.

11. ALL STATIONS AND OFFSETS REFER TO THE ℄ OF CONSTRUCTION UNLESS OTHERWISE NOTED.

12. THE COUNTY RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIAL DELIVERED TO THE PROJECT AND TO REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS

13. ANY DAMAGE TO COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY, PAYMENT SHALL NOT BE MADE FOR THIS WORK.

14. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.

15. DRIVEWAY LOCATION AND WIDTH MAY BE FIELD ADJUSTED DURING CONSTRUCTION BY THE CONTRACTOR IN COORDINATION WITH REQUESTS FROM PROPERTY OWNERS, AND COUNTY COORDINATION.

16. ALL DRIVEWAYS TO BE CONCRETE AND OF TYPE G-13 PER FDOT STANDARD INDEX 515 UNLESS NOTED OTHERWISE.

17. CONTRACTOR SHALL INSTALL SOIL TRACKING PREVENTION DEVICES AT ALL POINTS OF CONSTRUCTION VEHICLE INGRESS/EGRESS.

18. SEE COUNTY HIGHWAY & TRAFFIC STANDARD MANUAL ROAD CONNECTION DETAIL 403.3 AT ALL WIDENING AND CONNECTIONS TO EXISTING PAVEMENT.

19. THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE UTILITIES WERE LOCATED AS ACCURATELY AS POSSIBLE, HOWEVER NO GUARANTEE IS MADE THAT THE UTILITIES COMPRISE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

20. THE CONTRACTOR SHALL FIELD VERIFY ANY AND ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY DISCREPANCIES.

21. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT SIZE, LOCATION, DEPTH, HEIGHT, ELEVATION, DIMENSION, AND EXTENT OF ALL UNDERGROUND AND OVERHEAD FACILITIES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY THAT MAY AFFECT SUCH FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN THE CONTRACTOR AND ALL UTILITY AGENCIES.

    NOTE: THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE.

30. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL AND SEDIMENT CONTROL, IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, THROUGHOUT THE DURATION OF THE PROJECT AND ALL ASPECTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE RESTORATION EFFORTS THAT MAY BE REQUIRED AS A RESULT OF CONSTRUCTION. THE CONTRACTOR SHALL USE WHATEVER METHODS, CONFORMING TO APPLICABLE STANDARDS, NECESSARY TO PREVENT EROSION AND SILTATION AS MAY BE REQUIRED FOR THE PROJECT.

32. ALL EROSION CONTROL FENCES, BARRIERS, AND SILTATION DEVICES SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, SHALL BE MAINTAINED IN GOOD WORKING ORDER DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCES AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE/BARRIER. STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.

33. CONTRACTOR SHALL CHECK ALL EROSION AND SILTATION CONTROL DEVICES WEEKLY, AND AFTER EACH RAINFALL, AND REPAIR AND REPLACE THEM AS REQUIRED. MAINTENANCE AND INSPECTION OF THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION CONTROL SHALL BE INCLUDED IN THE COST OF PAY ITEMS LISTED.

34. PERFORMANCE TURF-SOD STABILIZATION SHALL OCCUR WITHIN 72 HOURS OF ACHIEVING FINAL GRADE. ALL SLOPES STEEPER THAN 3:1 SHALL INCLUDE SOD STAPLING OR STAKING, THE COST OF WHICH IS INCLUDED IN THE PAY ITEM FOR PERFORMANCE TURF, SOD (SY).

35. UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE, AT A SUITABLE SITE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERMITS AND PERMITTING FEES REQUIRED FOR THE TRANSPORT AND DISPOSAL OF UNSUITABLE MATERIAL.

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

MANATEE COUNTY PM: ERIC S. SHROYER, P.E.
MANATEE COUNTY PUBLIC WORKS
1022 26TH AVENUE EAST
BRADENTON, FL 34206-3926
(941) 708-7450 EXT. 7344

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

GENERAL NOTES (1)

SHEET NO.: 32

Mitch Johnson 2/7/2019 8:32:36 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\GNNTRD01.dwg

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36. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY PRIVATELY OWNED FEATURES LOCATED ON PRIVATE PROPERTY AND OUTSIDE THE DESIGNATED AREA OF CONSTRUCTION WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN A TIMELY MANNER AT THE EXPENSE OF THE CONTRACTOR. PAYMENT SHALL NOT BE MADE FOR THIS WORK.

37. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION, WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.

38. ALL SIDEWALK DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, AT THE DIRECTION OF THE ENGINEER.

39. NO ROAD CLOSURE SHALL BE ALLOWED UNLESS APPROVED BY COUNTY REPRESENTATIVES. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF IT BECOMES NECESSARY DURING CONSTRUCTION TO TEMPORARILY PROHIBIT ACCESS TO LOCAL TRAFFIC, THE CONTRACTOR SHALL ON EACH SEPARATE OCCASION, NOTIFY ALL AFFECTED PROPERTY OWNERS AND AREA EMERGENCY SERVICES AT LEAST THREE DAYS (72 HOURS) IN ADVANCE.

UTILITY NOTES

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED V_V. V_H AND V_{VH}) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

3. UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBER
SPECTRUM COMMUNICATIONS	JAMES CRUZAN	727-329-2846
FRONTIER COMMUNICATIONS	DENISE HUTTON	941-906-6722
FLORIDA POWER & LIGHT - DISTRIBUTION	GREG COKER	941-723-4430
FLORIDA POWER & LIGHT - TRANSMISSION	GARY PETERSON	561-904-3665
MANATEE COUNTY UTILITIES	BOB CROUCH	941-792-8811

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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
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GENERAL NOTES (2)

SHEET NO.: 33

SETTLEMENT MONITORING PROGRAM NOTES

1. THE PRELOADING / SURCHARGING AREAS SHALL BE PREPARED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 120, EXCAVATION AND EMBANKMENT. THE PREPARED SURFACE SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-99 METHOD PRIOR TO PLACING ANY FILL. SURCHARGE AND EMBANKMENT MATERIALS SHALL BE SELECT MATERIALS AS INDICATED IN FDOT DESIGN STANDARD INDEX 505 AND SHALL BE COMPACTED IN THIN LIFTS IN ACCORDANCE WITH SECTION 120-9 OF THE FDOT STANDARD SPECIFICATIONS.

2. EROSION AND SEDIMENT CONTROL MEASURES FOR THE PRELOADING AND SURCHARGE EMANKMENT SHALL BE CONTRACTOR'S SELECTION AND SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL RULES AND REGULATIONS.

3. SETTLEMENT PLATE ASSEMBLIES SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 540. INSTALL SETTLEMENT PLATES AT LOCATION INDICATED.

4. PROTECT THE SETTLEMENT PLATE ASSEMBLIES DURING CONSTRUCTION. REMOVE AND REPLACE ANY DAMAGED ASSEMBLIES AND RECONSTRUCT THE PRELOADING / SURCHARGE EMBANKMENT AT NO ADDITIONAL COST TO THE COUNTY.

5. PERFORM SETTLEMENT READING ON A REGULAR INTERVAL, BUT NO LESS THAN THE FOLLOWING SCHEDULE. REPORT THE RESULTS OF READING ON AN APPROVED MONITORING LOG AND PROVIDE THE RESULTS INCLUDING ALL DATA REDUCTION AND GRAPHICALPRESENTATION OF RESULTS TO THE COUNTY WITHIN 24-HOURS OF READING.
   - EXISTING SITE CONDITION AFTER CLEARING AND GRUBBING
   - WEEKLY DURING EMBANKMENT AND SURCHARGE PLACEMENT AND REMOVAL
   - WHEN FINISHED GRADE IS REACHED
   - WHEN SURCHARGE EMBANKMENT IS AT ONE-HALF HEIGHT
   - WHEN SURCHARGE EMBANKMENT IS AT FULL HEIGHT
   - WEEKLY READINGS, FOR UP TO 14 WEEKS, AFTER THE SURCHARGE EMBANKMENT REACHES FULL HEIGHT
   - IMMEDIATELY AFTER THE SURCHARGE EMBANKMENT IS REMOVED

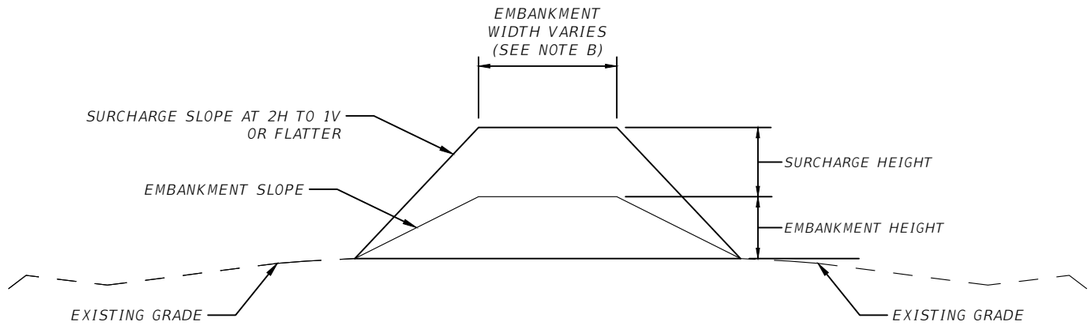
6. THE CONTRACTOR SHALL ANTICIPATE THAT AFTER REACHING THE FULL HEIGHT, THE SURCHARGE WILL NEED TO REMAIN IN PLACE FOR UP TO THE EXPECTED 14 WEEKS DURATION. THE CONTRACTOR'S NETWORK ANALYSIS SCHEDULE AND EFFORTS SHALL BE BASED ON THE SURCHARGE REMAINING IN PLACE FOR THE FULL EXPECTED DURATION. BASED ON THE RECORDED SETTLEMENT, THE COUNTY MAY RELEASE THE SURCHARGE EARLY.

7. IT IS ANTICIPATED THAT THE TOTAL GROUND SETTLEMENT AT THE COMPLETION OF THE SURCHARGE PROGRAM WILL BE ON THE ORDER OF 4 TO 10 INCHES, DEPENDING ON LOCATIONS. THE CONTRACTOR SHALL CONSIDER THE ANTICIPATED SETTLEMENT IN ESTIMATING THE EARTHWORK QUANTITIES AND PLANNING CONSTRUCTION ACTIVITIES. IT IS ESTIMATED ADDITIONAL SETTLEMENT OF LESS THAN 1 INCH WILL OCCUR AFTER THE SURCHARGE REMOVAL.

8. IF THE ABUTMENT PILES ARE INSTALLED AFTER THE SURCHARGE PROGRAM HAS BEEN COMPLETED AND ACCEPTED, THE ABUTMENT PILES SHALL BE INSTALLED WITH PREDRILLED HOLES THROUGH THE COMPLETED EMBANKMENT. NO DOWNDRAG LOSS WILL BE ADDED TO THE PILE DRIVING RESISTANCE.

9. IF THE ABUTMENT PILES ARE INSTALLED PRIOR TO PLACEMENT OF THE EMBANKMENT AND SURCHARGE FILLS, ADDITIONAL DOWNDRAG LOSS WILL BE ADDED TO THE REQUIRED PILE DRIVING RESISTANCE. THE EXPOSED PORTION OF THE PILES SHALL BE WRAPPED WITH TWO LAYERS OF POLYETHYLENE SHEETING IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 459 PRIOR TO FILL PLACEMENT.

10. COORDINATE WITH THE STRUCTURAL PLANS FOR ADDITIONAL REQUIREMENTS REGARDING ABUTMENT PILES INSTALLATION. UNDERGROUND UTILITIES SHALL NOT BE INSTALLED WITHIN THE SURCHARGE FOOTPRINT PRIOR TO THE COMPLETION OF THE SURCHARGE PROGRAM.



PRELOADING / SURCHARGE EMBANKMENT DETAIL

PRELOADING/ SURCHARGE EMBANKMENT LIMITS
(STA. 193+00.00 TO STA. 197+65.00 AND STA. 212+50.00 TO STA. 216+00.00, SEE NOTE C)

ZONE	HEIGHT ABOVE FINISHED GRADE (FT)	SETTLEMENT PLATE DESIGNATION	SETTLEMENT PLATE LOCATION	
			STATION	OFFSET
STATION 193+00 TO STATION 197+65	8	SP-1	193+50	ON CENTER
		SP-2	195+00	40' RT
		SP-3	196+30	60' LT
		SP-4	197+30	ON CENTER
STATION 212+50 TO STATION 216+00	5	SP-5	212+80	ON CENTER
		SP-6	214+00	40' RT
		SP-7	215+50	ON CENTER

NOTES:
A. SEE SETTLEMENT MONITORING PROGRAM NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
B. CONSTRUCT SURCHARGE WIDTH TO MATCH EMBANKMENT WIDTH. WHERE THE EMBANKMENT SLOPE IS 2H:1V, CONSTRUCT THE SURCHARGE SLOPE TO MATCH THE EMBANKMENT SLOPE AND ADJUST THE SURCHARGE WIDTH ACCORDINGLY.
C. THE SHOWN PROJECT STATIONS INDICATE THE BEGIN AND END OF FULL SURCHARGE HEIGHT ABOVE THE FINISHED GRADES. CONSTRUCT THE TRANSITIONAL AREAS AT THE BEGIN AND END EMBANKMENT SURCHARGE WITH 2H:1V SLOPE OR FLATTER.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

KIETH QUOC GIANG, P.E.
AECOM
7650 W COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: KIETH QUOC GIANG, P.E.
FL. LICENSE NO.: 49510

GENERAL NOTES (3)

SHEET NO.: 34

Mitch Johnson 2/7/2019 8:33:33 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\GNNTRD03.dwg

TRAFFIC CONTROL GENERAL NOTES

1. THE PROPOSED TRAFFIC CONTROL SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY, TRAFFIC DESIGN STANDARDS (600 SERIES), STANDARD SPECIFICATIONS AND LATEST VERSION OF THE MUTCD.

2. THE REGULATORY SPEED DURING ALL MAINTENANCE OF TRAFFIC PHASES SHALL REMAIN THE SAME UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLANS. ALL REGULATORY SIGNS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3. EXISTING REGULATORY POSTED SPEEDS ARE AS FOLLOWS:
   44TH AVE. EAST – 45 MPH
   CARUSO ROAD – 40 MPH
   MORGAN JOHNSON ROAD – 40 MPH

4. ALL EXISTING PAVEMENT MARKINGS OUTSIDE OF THE CONSTRUCTION LIMITS THAT ARE REMOVED FOR TRAFFIC CONTROL PURPOSES SHALL BE REPLACED UPON COMPLETION OF THE PROJECT.

5. TEMPORARY REFLECTORIZED RAISED PAVEMENT MARKERS SHALL BE INSTALLED THROUGHOUT ALL TRAFFIC CONTROL PHASES AND SPACED AS SPECIFIED IN STANDARD INDEX NO. 600 SHEET 12 OF 12. CONTRACTOR SHALL USE TEMPORARY RPM'S IN ALL TRANSITION AREAS, IN ACCORDANCE WITH INDEX 600.

6. PEAK TRAFFIC HOURS HAVE BEEN ESTABLISHED AS SHOWN BELOW. THE CONTRACTOR SHALL SUBMIT REQUESTS FOR LANE CLOSURES TWO WEEKS IN ADVANCE FOR MANATEE COUNTY'S NOTIFICATION TO THE PUBLIC. THE LANE CLOSURE RESTRICTION TIMES ARE AS FOLLOWS:

   44TH AVE EAST:
   NO RESTRICTIONS.

   CARUSO RD/MORGAN JOHNSON RD:
   NO RESTRICTIONS.

7. LANE CLOSURES OR DETOURS SHALL NOT BE PERFORMED DURING HOLIDAY PERIODS AS IDENTIFIED IN SPECIFICATION 8-6.4.; THE WEEKEND AFTER A FRIDAY HOLIDAY; WEDNESDAY NIGHT PRIOR TO AND SUNDAY NIGHT AFTER THANKSGIVING DAY. IN ADDITION TO ALL PREVIOUSLY STATED LIMITATIONS ON LANE CLOSURES AND DETOURS, WITH A MINIMUM OF 14 DAYS NOTICE, MANATEE COUNTY MAY PROHIBIT ANY LANE CLOSURES AND/OR DETOURS FOR AN ADDITIONAL 10 DAYS AT NO ADDITIONAL COMPENSATION (TIME OR MONEY) TO THE CONTRACTOR.

8. THE CONTRACTOR SHALL USE INDEX NUMBER 619 WHENEVER CONSTRUCTION EQUIPMENT IS RELOCATED OR DRIVEN ON EXISTING FIELD CONDITIONS.

9. LOCATIONS FOR ADVANCE WARNING AND END CONSTRUCTION SIGNS, AS DEPICTED ON THE TRAFFIC CONTROL PLANS, ARE APPROXIMATE AND THE CONTRACTOR SHALL POSITION SIGNS APPROPRIATELY CONSIDERING THE EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

10. THE CONTRACTOR SHALL PROVIDE A TWO-WEEK ADVANCED NOTIFICATION TO ALL OF THE FOLLOWING AGENCIES PRIOR TO THE IMPLEMENTATION OF A DETOUR OF TRAFFIC:

    * MANATEE COUNTY PUBLIC INFORMATION OFFICE

11. THROUGHOUT THE MILLING OPERATIONS, THE CONTRACTOR SHALL HAVE A SELF-CONTAINED VACUUM TYPE MOBILE BROOM ON THE JOB FOR CLEAN UP OF MILLED DUST MATERIAL. THE CONTRACTOR SHALL ONLY MILL THE AMOUNT OF PAVEMENT THAT CAN BE RESTORED IN ONE WORK PERIOD.

12. LOCATIONS OF WORK ZONE ACCESS TO BE DETERMINED BY CONTRACTOR AND APPROVED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TO THE ENGINEER THE PROPOSED METHOD OF ENTERING AND LEAVING THE WORK ZONE DURING EACH PHASE OF CONSTRUCTION. (SOIL TRACKING DEVICES WILL BE REQUIRED.)

13. NIGHT TIME WORK SHALL NOT BE PERMITTED WITHOUT THE COUNTY AND ENGINEER'S PRIOR CONSENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING FOR CONSTRUCTION OPERATIONS AS DETERMINED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR NIGHTTIME WORK.

14. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL CONSTRUCTION PHASING WITH ANY ADJACENT CONSTRUCTION CONTRACTORS. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS COORDINATION.

15. LONGITUDINAL DIMENSIONS SHOWN IN THE CONSTRUCTION TRAFFIC CONTROL PLANS SHALL BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS AS DETERMINED NECESSARY BY THE ENGINEER.

16. ARROWS SHOWN ON THE TRAFFIC CONTROL PLANS INDICATE DIRECTION OF TRAFFIC. THEY DO NOT REPRESENT MARKINGS UNLESS SPECIFICALLY NOTED AS SUCH.

17. A LANE CLOSURE SHALL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE.

18. THE CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN, BUILD, MAINTAIN AND REMOVE WHEN NO LONGER NEEDED ALL TEMPORARY PAVEMENT, EMBANKMENT AND DRAINAGE STRUCTURES FOR THE MAINTENANCE OF TRAFFIC.

19. WHERE FINAL PAVEMENT MARKINGS ARE CALLED OUT IN THE TRAFFIC CONTROL PLANS, REFER TO THE SIGNING AND PAVEMENT MARKING PLANS FOR TYPE AND LOCATION.

20. THE CONTRACTOR SHALL NOT EXCAVATE ANY AREAS THAT CANNOT BE SAFELY REOPENED TO TRAFFIC WITHIN THE SAME WORK PERIOD.

21. THE CONTRACTOR SHALL MAINTAIN STREET NAME SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

22. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY UNDER THESE CONDITIONS. THE CONTRACTOR SHALL ALSO RESPOND WITHIN TIME CONSTRAINTS OUTLINED IN THE STANDARD SPECIFICATIONS UPON NOTIFICATION BY THE ENGINEER TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES.

23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THREE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) FOR A PERIOD OF TWO WEEKS. THE PCMS WILL BE LOCATED 500' IN ADVANCE OF THE APPROACHES TO THE NEW SIGNALIZED INTERSECTION AS SPECIFIED BY THE MAINTAINING AGENCY'S ENGINEER. THE PCMS WILL BE PROVIDED (1) WEEK PRIOR TO THE SCHEDULED ACTIVATION TO FULL COLOR OPERATION AND SHALL REMAIN IN PLACE FOR (1) WEEK FOLLOWING ACTIVATION.

    PRIOR TO ACTIVATION, THE PCMS SHALL STATE:
    (PANEL ONE – LINE 1) "TRAFFIC"
    (PANEL ONE – LINE 2) "SIGNAL"
    (PANEL ONE – LINE 3) "WILL BE"
    (PANEL TWO – LINE 1) "ACTIVE"
    (PANEL TWO – LINE 2) "ON DAY"
    (PANEL TWO – LINE 3) "MM/DD"

    AFTER THE ACTIVATION, THE PCMS SHALL BE CHANGED TO
    (PANEL ONE – LINE 1) "TRAFFIC"
    (PANEL ONE – LINE 2) "SIGNAL"
    (PANEL ONE – LINE 3) "ACTIVE"

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

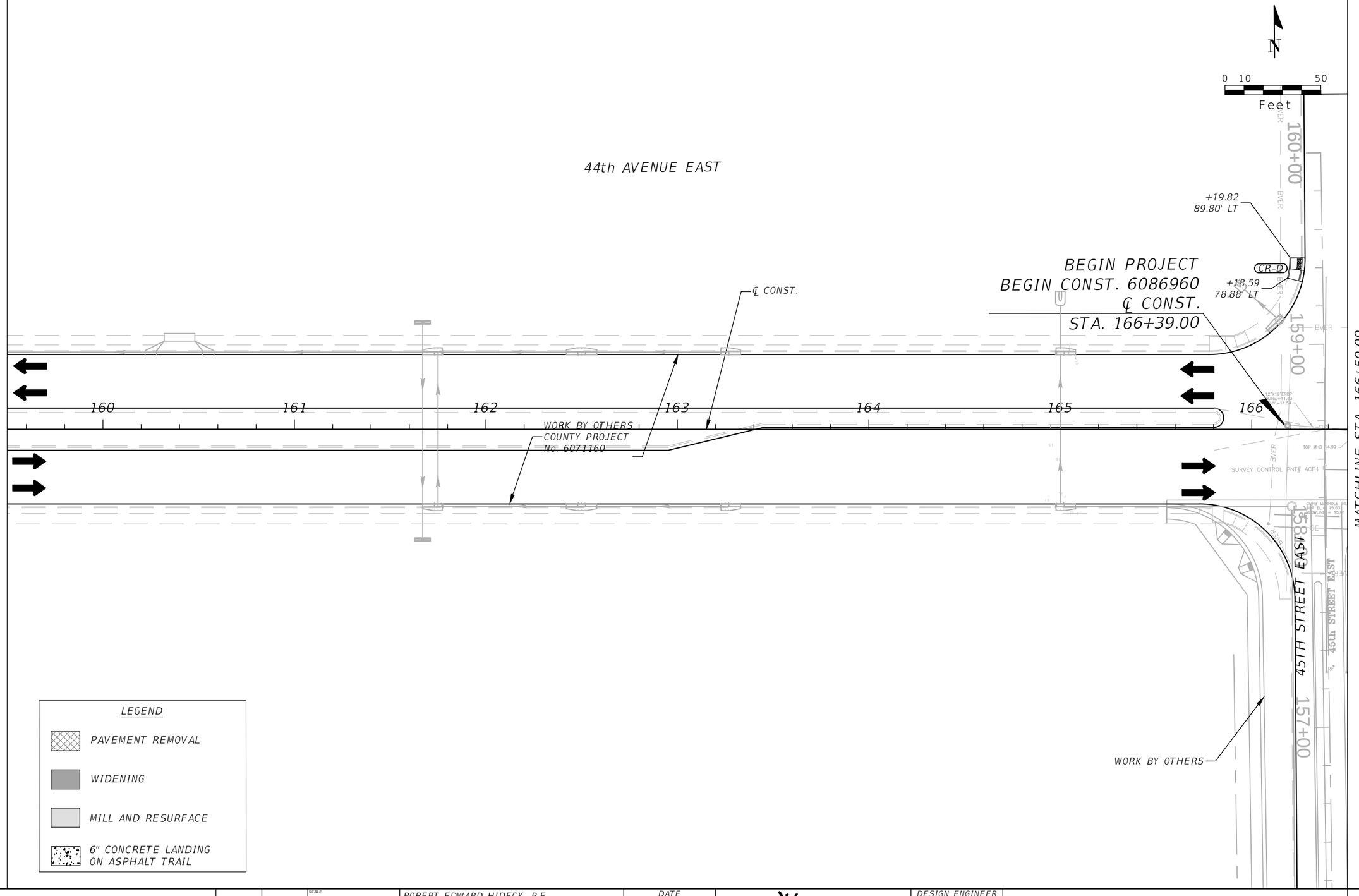
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN GENERAL NOTES

SHEET NO.: 35

Mitch Johnson 2/7/2019 8:34:22 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\TCGNRD01.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

ROADWAY PLANS (1)

SHEET NO.: 36

Mitch Johnson 5/17/2019 10:21:07 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01.dwg

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MATCHLINE STA. 166+50.00

MATCHLINE STA. 173+50.00

+57.37
211.65' LT

PROP. R/W LINE

+73.45
211.58' LT

BEG. C&G (TYPE F)
PC +51.70, 107.31' LT
MATCH EXIST.

CON TO EXIST. MH
CONC. COLLAR
INDEX 280

CONST 46 LF 18" PIPE

BEGIN FULL EB & WB RECONST.
167+70.00

S-99

S-100A

SMF 1

S-104A

CONST. FENCE

44th AVENUE EAST

N

0 10 50
Feet

+66.70
93.58' LT

CONST 63 LF
42" PIPE

CR-A

EXIST. R/W LINE

CONST 60 LF 18" PIPE

R=50'

+99.29
72.67' LT

S-101A

CONST 66 LF 18" PIPE

10' ASPH. TRAIL

+42.71
72.72' LT

+92.92
59.67' LT

CS-106A

℄ OF DRIVEWAY
+25.00

20'

PROP. R/W LINE

CONST 70 LF 42" PIPE

+74.41
70.00' LT

CONST 90 LF 42" PIPE

EXIST. R/W LINE

CONST 150 LF 48" PIPE

+15.00
59.58' LT

+40.00
54.15' LT

℄ OF DRIVEWAY
+59.96

12'

+80.00
53.45' LT

+05.00
58.02' LT

+50.00
70.00' LT
(PROP. R/W)

CONST 200 LF 48" PIPE

S-108

10'

8'

10'

S-108A

CONST 13 LF 36" PIPE

S-100

CR-A

PT +01.70
57.67' LT

S-104

S-106B

S-106

+41.00
57.67' LT

+91.00
44.67' LT

+40.50
5.33' RT

+40.50
16.13' LT

C&G (TYPE F)

C&G (TYPE AB)

28'

WIDENING

63'

CONST 100 LF 34"x53" PIPE

CONST 99 LF 18" PIPE

℄ CONST.

167 168 169 170 171 172 173

+05.40
8.17' RT

27'-2"

CONST 98 LF 34"x53" PIPE

MILL & RESURFACE

44th AVENUE EAST
ASPHALT PAVEMENT

28'

CONST 85 LF 18" PIPE

S-105

28'

CR-C

S-101

S-102

S-103

S-107

+95.20
61.26' RT

+23.38
39.00' RT

+23.42
46.89' RT

+75.00
49.00' RT

8' HANDRAIL
PER INDEX 282

CONST 53 LF 12" PVC PIPE
CONNECT TO EXIST. 12" PVC PIPE
REMOVE EXISTING MES

CONST 100 LF 18" PIPE

C&G (TYPE F)

CONC. TRAF. SEP.
(TYPE 1, 4' WIDE)

EXIST. R/W LINE

BEG. NEW EB PAVT. CONST.
BEG. C&G (TYPE F)
+87.85
39.00' RT, MATCH EXIST.

5' CONC. SWK.

EXIST. OUTFALL
POND 18

EXISTING TO REMAIN

EXIST. DRAINAGE TO REMAIN
UNTIL CONSTRUCTION OF
45TH ST IMPROVEMENTS

WORK BY OTHERS

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING
ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.

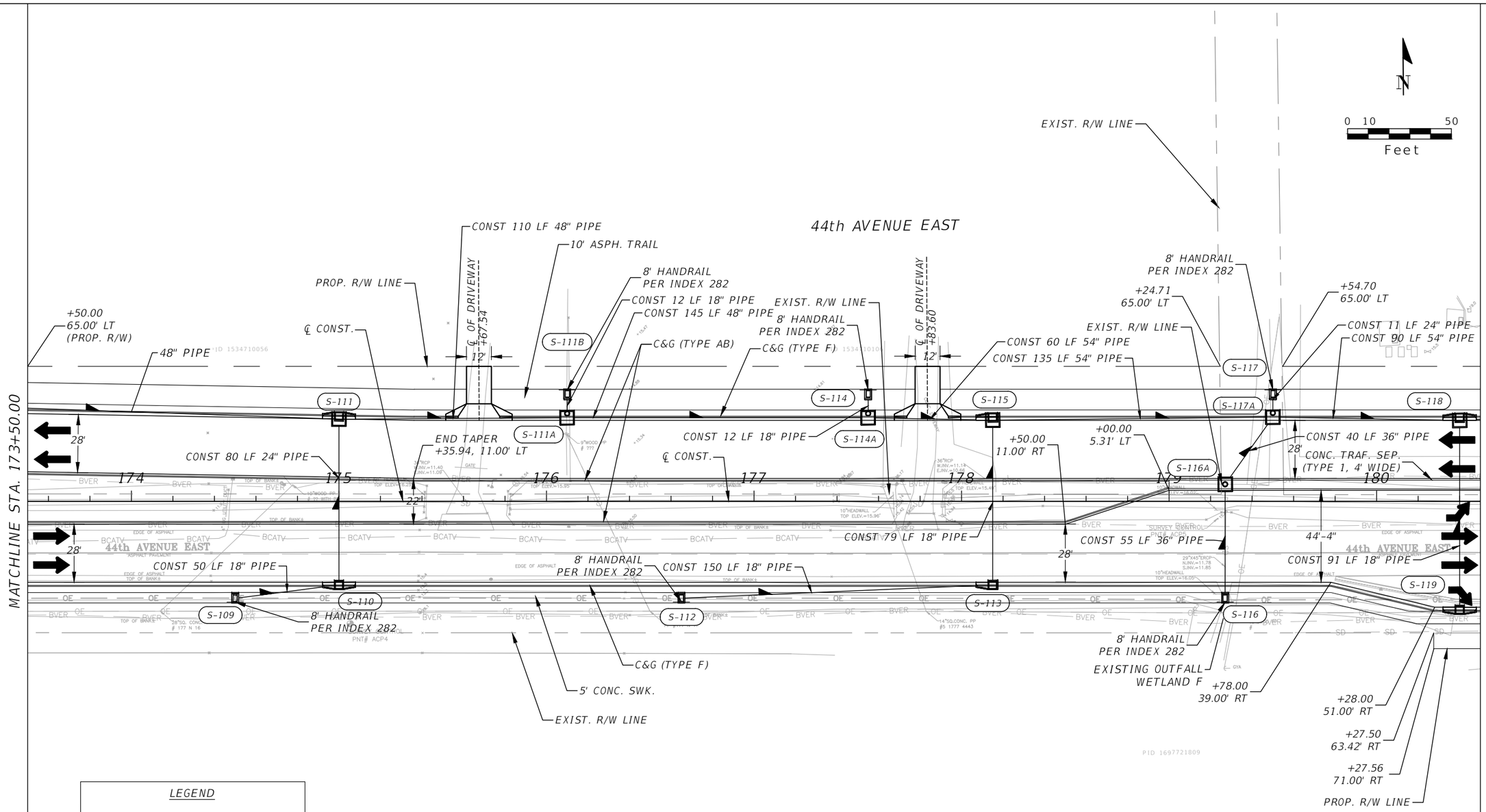
FL. LICENSE NO.: 67495

ROADWAY PLANS (2)

SHEET NO.: 37

Mitch Johnson 5/17/2019 10:21:40 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01.dwg

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LEGEND

- PAVEMENT REMOVAL
- WIDENING
- MILL AND RESURFACE
- 6" CONCRETE LANDING ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

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DRAWN BY
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
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DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

ROADWAY PLANS (3)

SHEET NO.: 38

Mitch Johnson 5/17/2019 10:22:14 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01.dwg

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N

0 10 50
Feet

44th AVENUE EAST

MANATEE COUNTY UTILITIES

MATCHLINE STA. 180+50.00

MATCHLINE STA. 187+50.00

10' ASPH. TRAIL

CONST 60 LF 54" PIPE

8' HANDRAIL PER INDEX 282

+50.00 65.00' LT

+50.00 76.00' LT

+84.43 66.00' LT

PC +85.64 39.00' LT

EXISTING 12" DRAINAGE PIPE TO REMAIN – TIE INTO PROPOSED MANHOLE

CONST 21 LF 18" PIPE

PT +10.64 64.01' LT

PC +35.64 76.00' LT

PROP. R/W LINE

CONST 94 LF 54" PIPE

PT +60.64 51.00' LT

+34.00 54.00' LT

S-120

S-120A

S-125B

S-125A

S-125

CR-E

CR-F

R=25'

R=25'

CONST 107 LF 54" PIPE

CONC. TRAF SEP. (TYPE 1, 4' WIDE)

28'

56'-4"

181

182

183

184

185

186

187

+35.02 7.98' LT

CONST 9 LF 18" PIPE

+98.00 8.17' RT

CONST 91 LF 18" PIPE

10' ASPH. TRAIL

C&G (TYPE F)

+97.14 66.00' LT

+95.00 51.00' LT

CONST 11 LF 18" PIPE

CONST 151 LF 54" PIPE

℄ CONST.

TOP OF BANKS

+46.07 76.00' LT

+46.07 65.00' LT

+46.07 53.92' LT

8' HANDRAIL PER INDEX 282

+45.00 38.92' LT

S-126

S-126A

CONST 117 LF 54" PIPE

+33.00 5.34' RT

S-127

S-127A

S-128

PROP. R/W LINE

CONST 274 LF 54" PIPE

EXIST. R/W LINE

8' HANDRAIL PER INDEX 282

CONST 12 LF 18" PIPE

+83.00 11.00' LT

CONST 20 LF 54" PIPE

C&G (TYPE AB)

CURVE NO. BL 44TH AVE. (I)

22'

28'

CONST 79 LF 18" PIPE

PC STA. 183+87.05

PC +63.59 51.00' RT

R=35'

S-121

S-122

S-123

S-124

CONST 51 LF 18" PIPE

PT +57.73 39.00' RT

8' HANDRAIL PER INDEX 282

CONST 12 LF 18" PIPE

CONST 69 LF 18" PIPE

CR-C

+63.68 71.00' RT

+74.21 83.44' RT

R=35'

END C&G (TYPE F) +98.68, 86.07' RT MATCH EXIST.

C&G (TYPE F)

5' CONC. SWK.

EXIST. R/W LINE

PROP. R/W LINE

END 5' CONC. SWK. MATCH EXIST.

+93.67 108.00' RT

USEPPA DRIVE

45th STREET EAST

BEG. C&G (TYPE F) PC +22.73, 86.07' RT MATCH EXIST.

BEG. 5' CONC. SWK. MATCH EXIST.

+27.67 107.91' RT

5' CONC. SWK.

C&G (TYPE F)

CONC. TRAF. SEP. (TYPE 1, 4' WIDE)

EXIST. R/W LINE

PROP. R/W LINE

+75.81 57.24' RT

+76.01 60.00' RT

S-129

12'

12'

℄ OF DRIVEWAY +10.00

℄ OF DRIVEWAY +20.77

PID 1697300059

8' HANDRAIL PER INDEX 282

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

ROADWAY PLANS (4)

SHEET NO.: 39

Mitch Johnson 5/17/2019 10:22:46 AM J:\PROJECTS – CADD\Manatee County\60869600000\roadway\PLANRD01.dwg

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44th AVENUE EAST

51st STREET EAST

MATCHLINE STA. 187+50.00

MATCHLINE STA. 194+50.00

PROP. R/W LINE

EXIST. R/W LINE

10' ASPH. TRAIL

C&G (TYPE F)

54" PIPE

S-131

28'

C&G (TYPE AB)

+15.00
5.34' LT

CURVE NO.
BL 44TH AVE. (1)

189

190

191

192

193

194

CONST 79 LF 18" PIPE

22'

+65.00
11.00' RT

28'

S-132

GRADE TO DRAIN

+30.63
60.00' RT

12'

℄ OF DRIVEWAY
+25.62

5' CONC. SWK.

PROP. R/W LINE

8' HANDRAIL
PER INDEX 282

+25.00
39.00' RT

+75.00
51.00' RT

PT STA. 190+68.38

+50.87
148.03' RT

CONST 283 LF 54" PIPE

+55.78
65.00' LT

BEGIN GRAVITY WALL
W/ RAILING (SEE INDEX 6011)
+45.00, 56.00' LT

END GRAVITY WALL
W/ RAILING (SEE INDEX 6011)
+70.00, 56.00' LT

CONC. TRAF. SEP.
(TYPE 1, 4' WIDE)

℄ CONST.

CONST 90 LF
54" PIPE

56'-4"

+50.06
8.17' LT

CONST 71 LF 54" PIPE

S-137

CONST 46 LF 54" PIPE

S-136

S-400

+10.86
51.00' RT

+36.65
82.61' RT

CONST 36 LF 43"x68" PIPE

S-138

R=50'

CONST 181 LF 19"x30" PIPE

S-135

S-134

CR-E

R=50

PC +59.61
39.00' LT

OBLITERATE PAVEMENT
& MATCH EXISTING GRADE

EXISTING DRAINAGE
STRUCTURE TO REMAIN
24" PIPE TO TIE INTO STRUCTURE

CONST 80 LF 18" PIPE

PT +08.17
100.92' LT

END RECONST.
END C&G
+04.47
121.85' LT
MATCH EXIST.

END RECONST. TYPE F C&G
+64.25, 106.55' RT
MATCH EXISTING

END RECONST. TYPE F C&G
PC +83.53, 101.24' RT
MATCH EXISTING

END RECONST.
END C&G
+23.70
125.50' LT
MATCH EXIST.

PC +33.11
91.28' LT

OBLITERATE PAVEMENT
& MATCH EXISTING GRADE

EXIST. R/W LINE

WIDENING

R=30'

PRC +21.66
134.29' LT

3'

R=30'

PT +47.54
129.62' LT

MILL AND
RESURFACING

GRADE TO
DRAIN

PT +51.73
111.65' LT

C&G (TYPE F)

R=30'

10' ASPH. TRAIL

PRC +31.47
96.23' LT

CONST 233 LF
18" PIPE

56'-4"

CR-F

S-141A

PC STA. 192+98.56

PT +82.29
51.00' LT

+43.00
8.17' RT

CURVE NO.
BL 44TH AVE. (2)

CONC. TRAF. SEP.
(TYPE 1, 4' WIDE)

28'

R=50'

PT +30.96
39.00' RT

CR-D

CR-F

S-139

5' CONC. SWK.

CONST 71 LF 54" PIPE

S-139A

CONST 96 LF 19"x30" PIPE

SMF 2

C&G (TYPE F)

S-133

S-140

EXISTING CULVERT TO
BE REPLACED

CONST. FENCE

PROP. R/W LINE

EXIST. R/W LINE

0 10 50
Feet

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING
ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

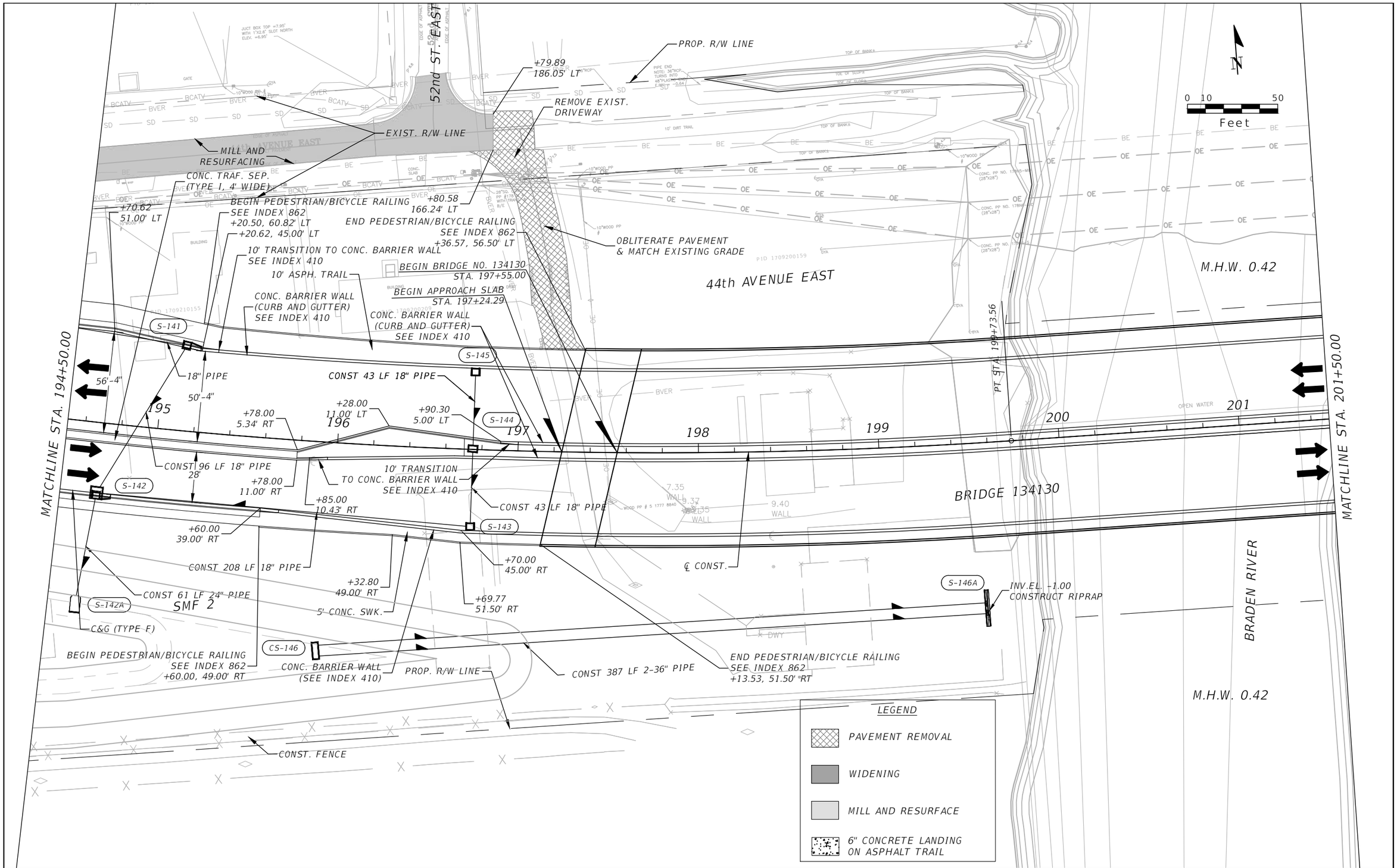
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ROADWAY PLANS (5)

SHEET NO. 40

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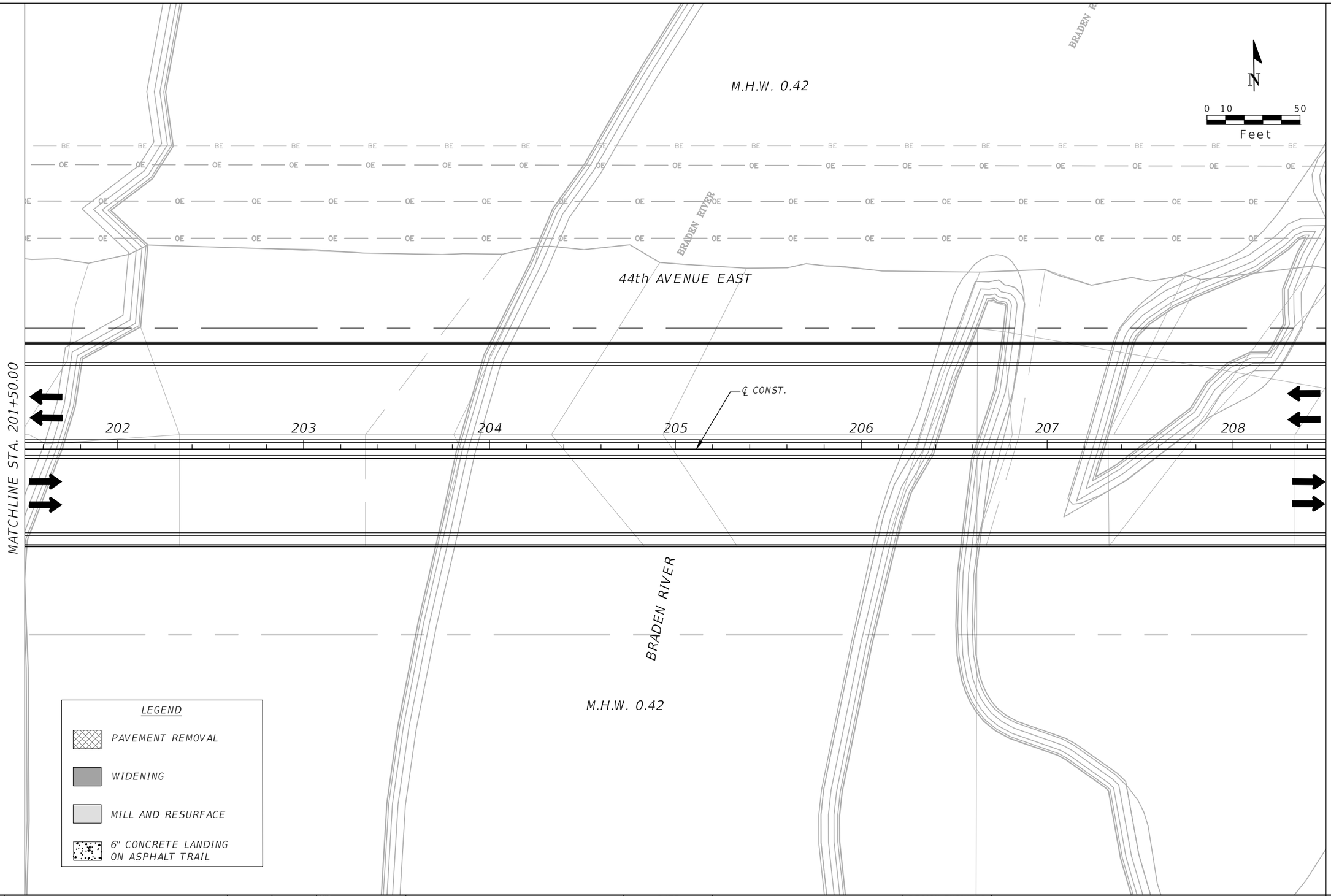
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ROADWAY PLANS (6)

SHEET NO. 41

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5110 EISENHOWER BOULEVARD, SUITE 310
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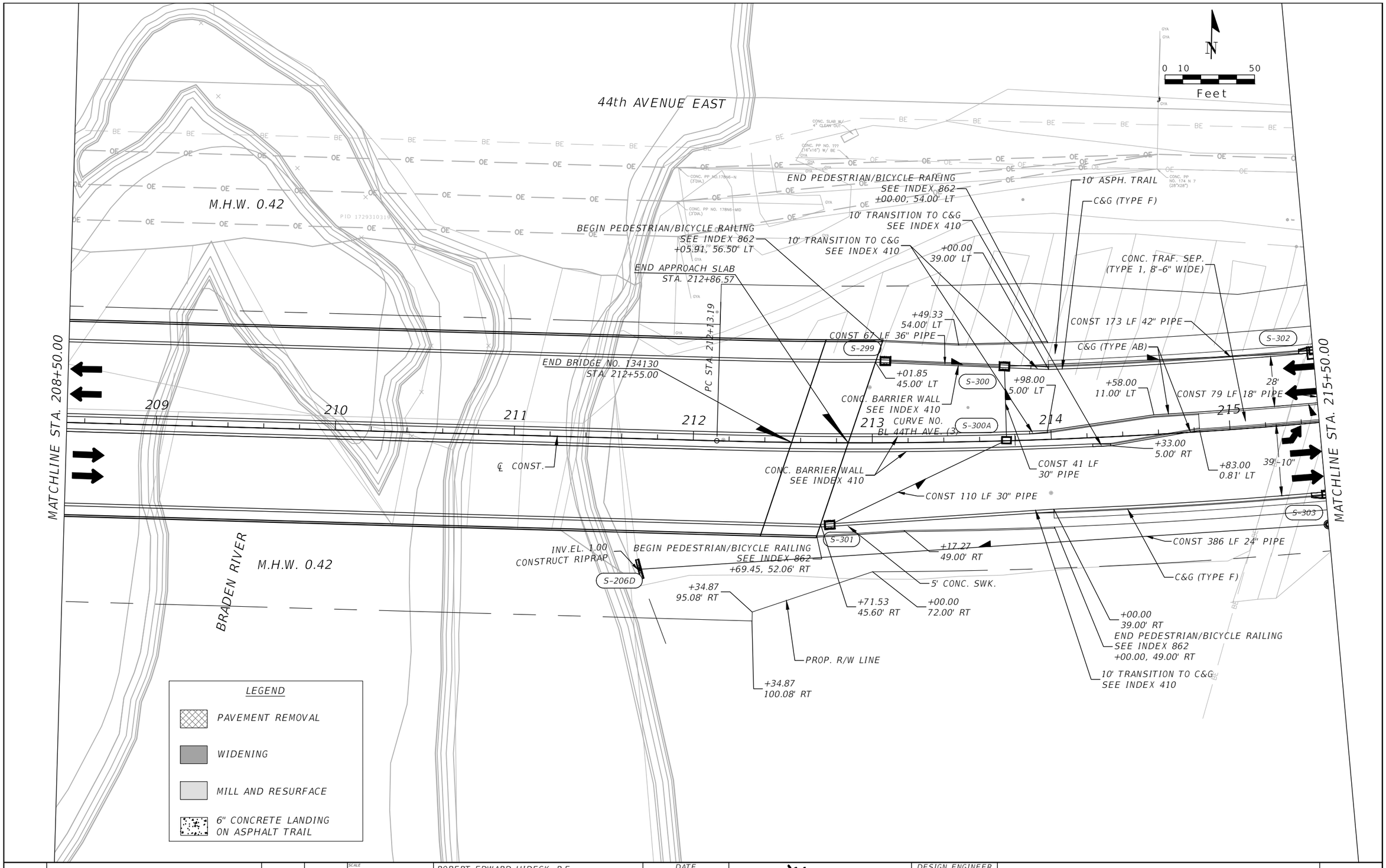
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FL. LICENSE NO.: 67495

ROADWAY PLANS (7)

SHEET NO.: 42

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5110 EISENHOWER BOULEVARD, SUITE 310
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DATE: 02/2019

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ROADWAY PLANS (8)

SHEET NO.: 43

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MATCHLINE STA. 502+00.00 (ROADWAY PLANS 20)

MATCHLINE STA. 215+50.00

MATCHLINE STA. 222+50.00

MATCHLINE STA. 325+00.00 (ROADWAY PLANS 19)

44th AVENUE EAST

57th STREET EAST

CARUSO RD.

SMF 3

℄ OF DRIVEWAY +80.00
30' PER MANATEE COUNTY STANDARD 101.1

EXISTING GUARDRAIL TO BE REMOVED

+60.00
20.00' LT

CONST 43 LF 18" PIPE

+95.70
126.96' LT

CONST 38 LF 12"x18" PIPE

10' ASPH. TRAIL

C&G (TYPE F)

END 10' ASPH. TRAIL
BEGIN 6" CONC. SWK.
+49.97, 54.00' LT

CONC. TRAF. SEP.
(TYPE 1, 8'-6" WIDE)

PC +57.37
39.00' LT

PT +87.05
20.00' LT

PT STA. 503+19.19

R = 50'

CONST 286 LF 48" PIPE

℄ CONST.

CURVE NO.
BL 44TH AVE. (3)

216

217

218

219

220

221

222

+52.00
5.92' LT

87°19'36"

STA. 500+00.00

CONST 92 LF 18" PIPE

BEG. MORGAN JOHNSON ℄
(57th ST. E.)
STA. 500+00.00=
℄ CONST.
STA 219+29.42

PC +68.56
52.00' RT

END ℄ CONST CARUSO
STA. 326+61.64=
℄ CONST.
STA 219+53.46

℄ MORGAN JOHNSON
5' CONC. SWK.

PC +05.67
20.00' RT

+95.71
31.09' RT

CONST 75 LF 18" PIPE

END CONC. SWK.
BEGIN ASPH. TRAIL
+31.89, 67.00' LT

EXIST. R/W LINE

+00.31
67.00' LT

+98.00
52.00' LT

+50.22
54.00' LT

+48.00
39.00' LT

10' ASPH. TRAIL

CONST 53 LF 18" PIPE

PT +98.40
52.17' LT

CONST 162 LF 54" PIPE

54" PIPE

CONST 91 LF 18" PIPE

CONST 210 LF 54" PIPE

STA. 326+61.64

CONST 89 LF 18" PIPE

CONC. TRAF. SEP.
(TYPE 1, 8'-6" WIDE)

+29.00
5.92' RT

86°2'0"

PT +29.57
39.00' RT

R = 50'

CURVE NO.
BL 44TH AVE. (4)

18" PIPE

39'-10"

+58.82
52.00' RT

52'-10"

CONST 307 LF 24" PIPE

+09.00
39.00' RT

+07.76
48.99' RT

+57.54
62.00' RT

PROP. R/W LINE

5' CONC. SWK.

C&G. (TYPE F)

+55.99
62.00' RT

+52.16
72.00' RT

CONST 46 LF 24" PIPE

+64.79
61.00' LT

+65.37
51.00' LT

PT +72.59
40.00' LT

R = 50'

CURVE NO.
BL CARUSO RD (13)

326

PC STA. 220+72.36

PC +61.40
16.00' RT

℄ CONST. CARUSO

CONST 183 LF 24" PIPE

+53.69
86.00' RT

+73.74
65.50' RT

5' CONC. SWK.

PROP. R/W LINE

C&G (TYPE F)

S-302 S-303 S-304 S-304A S-304B S-304C S-305 S-306 S-307 S-308 S-309 S-206A S-206B S-206C S-205 CS-206

CR-B

HA2-13

0 10 50
Feet

N

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

ROADWAY PLANS (9)

SHEET NO.
44

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N

0 10 50
Feet

44th AVENUE EAST

MATCHLINE STA. 222+50.00

MATCHLINE STA. 229+50.00

BEGIN PROP. R/W
+20.94
65.00' LT

℄ OF DRIVEWAY
+29.55

20'

EXIST. R/W LINE

℄ OF DRIVEWAY
+51.39

12'

PROP. R/W LINE

10' ASPH. TRAIL

℄ CONST.

C&G (TYPE F)

60" PIPE

CONST 243 LF 54" PIPE

S-310

S-312

C&G (TYPE AB)

+86.00
11.00' LT

28'

+36.00
1.00' RT

40'

223

224

225

CURVE NO
BL 44TH AVE. (4)

226

227

228

229

CONST 78 LF 54" PIPE

CONST 78 LF 60" PIPE

22'

28'

28'

CONC. TRAF. SEP.
(TYPE 1, 8'-6" WIDE)

S-311

5' CONC. SWK.

S-313

CONST 48 LF 54" PIPE

CONST 85 LF 60" PIPE

+85.42
65.50' RT

+85.01
72.94' RT

S-313A

C&G (TYPE F)

PROP. R/W LINE

EXIST. R/W LINE

S-311A

EXIST. R/W LINE

R = 25'

CR-F

PT +35.81
64.16' RT

END C&G (TYPE F)
+35.80
66.17' RT

SMF 3

DRAINAGE EASEMENT

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING
ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

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PROJECT NO.: 6086960

Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

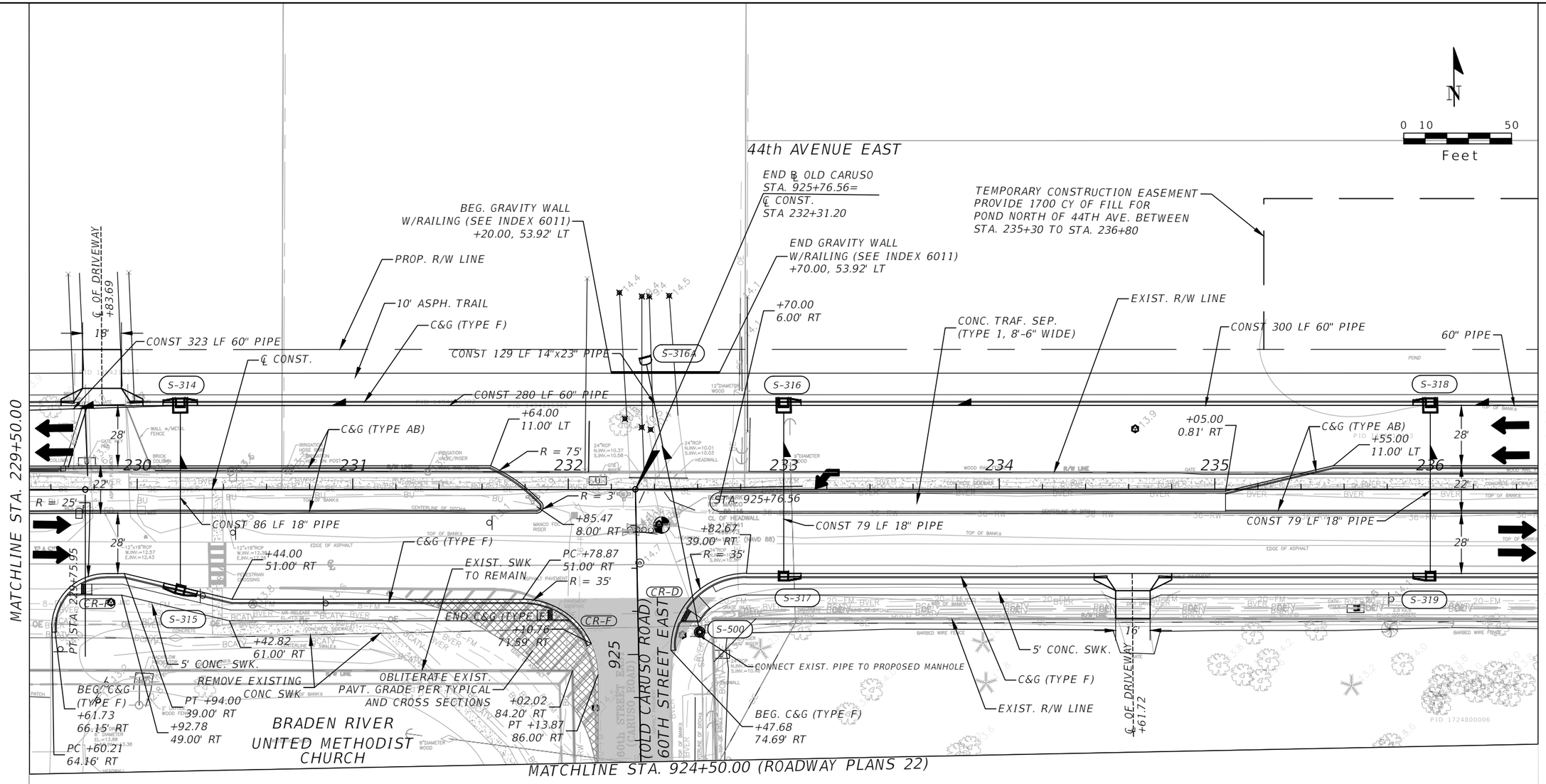
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FL. LICENSE NO. 67495

ROADWAY PLANS (10)

SHEET NO. 45

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LEGEND

- PAVEMENT REMOVAL
- WIDENING
- MILL AND RESURFACE
- 6" CONCRETE LANDING ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

ROADWAY PLANS (11)

SHEET NO.: 46

Floyd, Cindy 6/26/2019 9:49:32 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\PLANRD01.dwg

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44th AVENUE EAST

62nd STREET EAST

N

0 10 50
Feet

TEMPORARY CONSTRUCTION EASEMENT

CONST 192 LF 60" PIPE

℄ OF DRIVEWAY +27.00

24'

PROP. R/W LINE

10' ASPH. TRAIL

EXIST. R/W LINE

+64.00 76.00' LT

+64.00 65.00' LT

+08.83 54.00' LT

END RECONST. END C&G +86.60 85.98' LT MATCH EXIST.

PT +86.60 74.00' LT

+55.82 76.00' LT

+58.82 65.98' LT

CONST 150 LF 60" PIPE

CR-E

CR-F

S-320

S-320A

S-322

R = 35'

R = 35'

CONST 108 LF 60" PIPE

CONC. TRAF. SEP. (TYPE 1, 8'-6" WIDE)

PC +55.67 39.23' LT

END RECONST. BEG. C&G PC +06.60 85.98' LT MATCH EXIST.

+39.82 76.00' LT

PT +39.72 51.00' LT

℄ CONST.

+82.37 66.00' LT

+80.00 51.00' LT

+31.95 76.00' LT

+32.00 65.00' LT

+32.36 54.00' LT

+30.00 39.00' LT

PROP. R/W LINE

10' ASPH. TRAIL

C&G (TYPE F)

1-STY. GARAGE & CARPORT

54" PIPE

EXIST. R/W LINE

C&G (TYPE AB)

C&G (TYPE AB)

28'

22'

28'

40'

28'

22'

28'

237 238 239 240 241 242 243

CONST 79 LF 18" PIPE

CONST 97 LF 14"x23" PIPE

CONST 91 LF 18" PIPE

CONST 129 LF 18" PIPE

S-325A

39'-10"

R11"

S-321

S-320B

S-323

+85.00 11.00' RT

+35.00 0.81' LT

+70.00 6.00' LT

+40.00 0.00' LT

C&G (TYPE F)

5' CONC. SWK.

℄ OF DRIVEWAY +24.22

℄ OF DRIVEWAY +04.29

8' HANDRAIL PER INDEX 282

EXIST. R/W LINE

MATCHLINE STA. 236+50.00

MATCHLINE STA. 243+50.00

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING ON ASPHALT TRAIL

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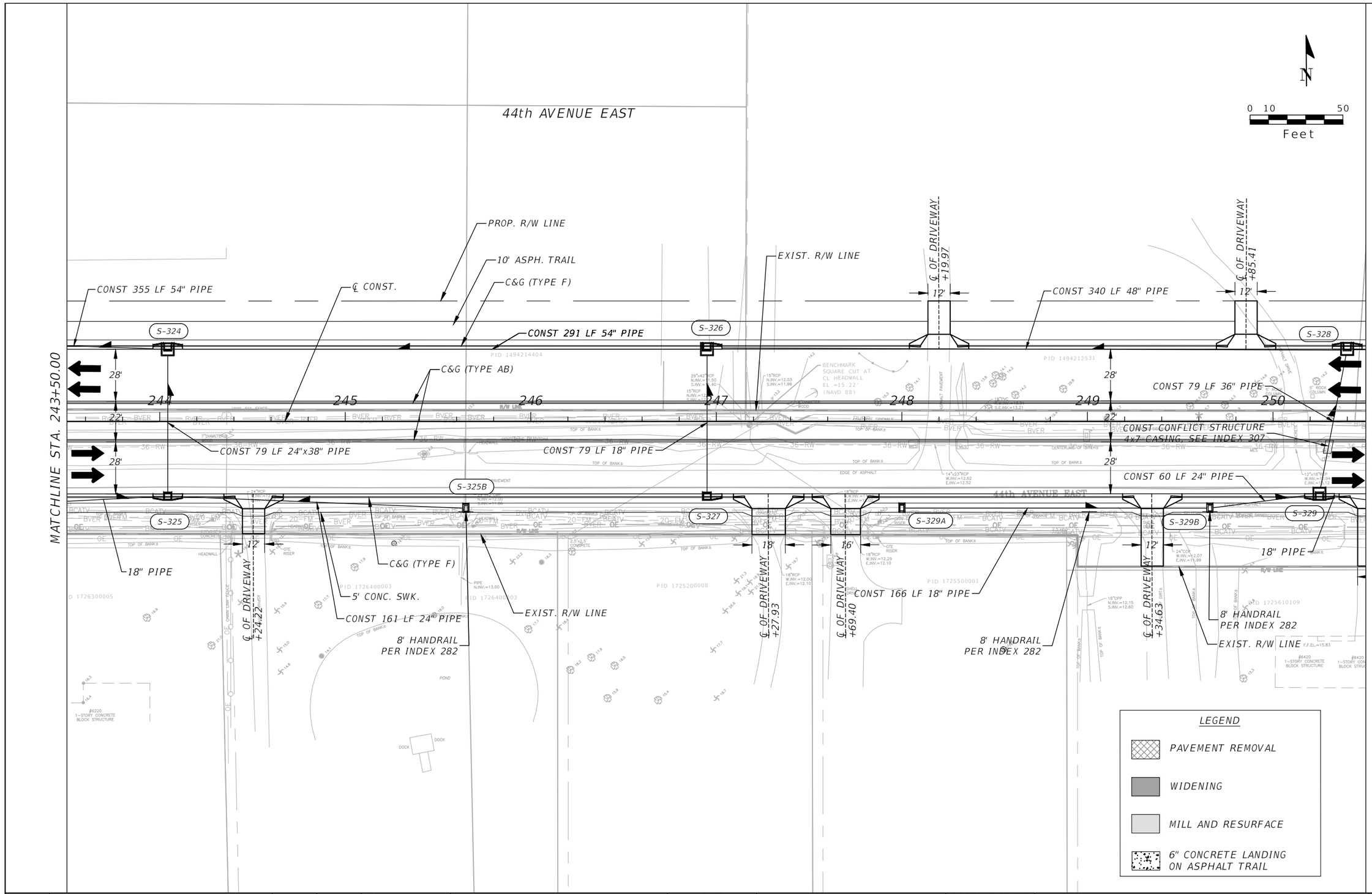
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FL. LICENSE NO.: 67495

ROADWAY PLANS (12)

SHEET NO.: 47

Berbakov, Jillian 6/14/2019 9:17:18 AM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\PLANRD01.dwg



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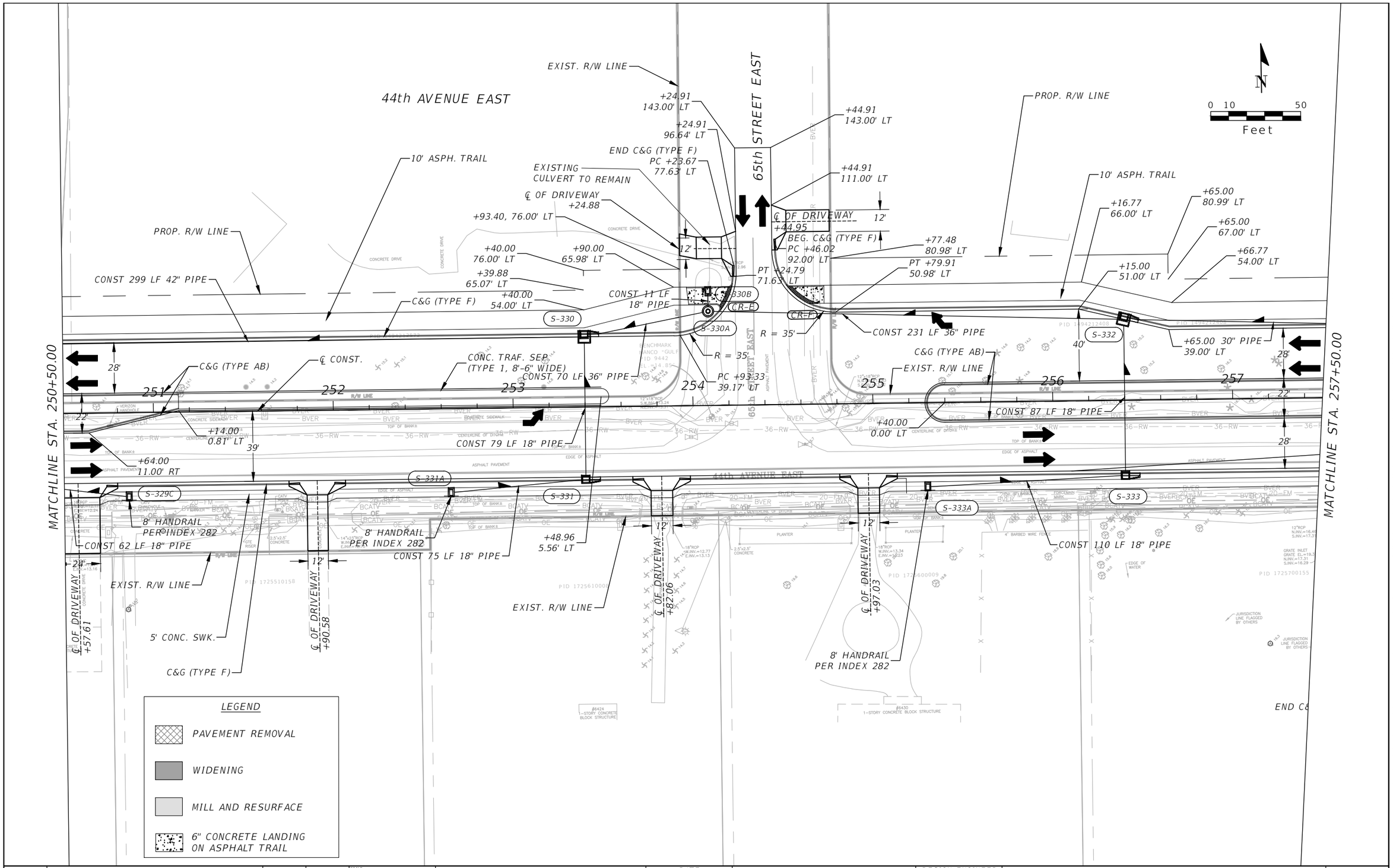
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ROADWAY PLANS (13)

SHEET NO.: 48

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DESIGN ENGINEER
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FL. LICENSE NO. 67495

ROADWAY PLANS (14)

SHEET NO. 49

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44th AVENUE EAST

44th AVENUE PLAZA EAST

END PROJECT
STA. 260+00.00
MATCH PROJECT
BY OTHERS

END CONSTRUCTION
STA. 261+60.00

END C&G (TYPE F)
+00.00, 39.00' LT

END 10' ASPH. TRAIL
+41.21, 54.00' LT
MATCH EXIST.

+57.95
65.00' LT

+76.18
42.89' LT

+58.40
67.00' LT

+44.74
23.00' LT

PT +62.25
58.29' LT

+71.14
67.00' LT

+00.00
23.00' LT

PC +84.81
36.89' LT

PC +40.12
23.00' LT

R = 25'

R = 25'

R = 35'

10' ASPH. TRAIL

PROP. R/W LINE

CONST 274 LF 30" PIPE

10' ASPH. TRAIL

℄ OF DRIVEWAY
+90.00

12'

C&G (TYPE F)

S-334

EXIST. R/W LINE

WIDENING

CURVE NO.
BL 44TH AVE. (5)

PT +06.82
22.74' LT

MILL. AND RESURFACING

C&G (TYPE AB)

℄ CONST.

28'

22'

28'

CONST 84 LF 18" PIPE
+00.00
0.00' RT

R = 11'

+15.00
49.00' RT

CONST 54
LF 18" PIPE

R = 35'

R = 35'

CR-F

CR-F

S-335

S-335A

EXIST. CURB AND GUTTER
TO REMAIN

5' CONC. SWK.

+60.00
49.00' RT

+05.00
48.00' RT
C&G (TYPE F)

8' HANDRAIL
PER INDEX 282

+49.77
39.00' RT

+99.23
59.00' RT

+95.00
48.00' RT

+85.00
49.00' RT

BEG. C&G (TYPE F)
PC +16.68
59.52' RT

EXISTING CULVERT TO REMAIN

END C&G (TYPE F)
+85.14
60.29' RT

EXIST. R/W LINE

BEG. TEMP. PAVT.
+00.00

END C&G (TYPE F)
+00.00, 39.00' RT

PROP. R/W LINE

+83.43
59.00' RT

END 5' CONC SWK
+87.40
MATCH EXIST

EXIST. R/W LINE

CURVE NO.
BL 44TH AVE. (6)

PCC STA. 262+67.27

EXIST. R/W LINE

10' UTILITY
EASEMENT(P)

20' ROADWAY
BUFFER(P)

5' NON-INGRESS
EGRESS EASEMENT(P)

35' LANDSCAPE BUFFER(P)

TRACT "DE7"
DRAINAGE EASEMENT(P)

10' UTILITY
EASEMENT(P)

MATCHLINE STA. 257+50.00

PT STA. 257+58.16

+51.95
39.00' RT

ASPHALT PARKING

257 258 259 260 261 262 263 264

0 10 50
Feet

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING
ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

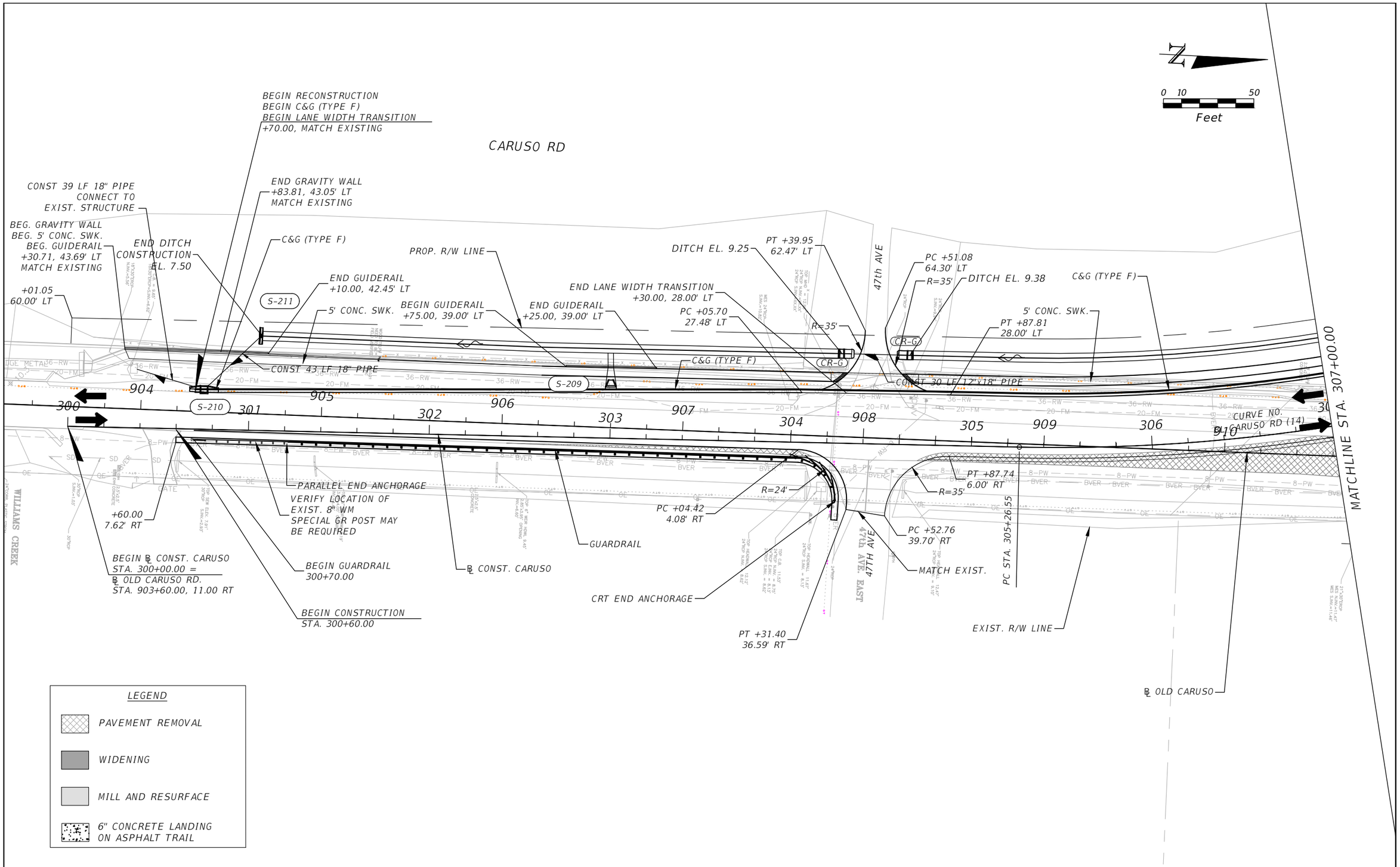
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

ROADWAY PLANS (15)

SHEET NO. 50

Mitch Johnson 5/17/2019 10:28:56 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01.dwg

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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

ROADWAY PLANS (16)

SHEET NO.: 51

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0 10 50
Feet

CARUSO RD

MATCHLINE STA. 307+00.00

MATCHLINE STA. 314+00.00

BEGIN GUIDERAIL
+00.00, 39.00' LT

END GUIDERAIL
+10.00, 39.00' LT

PROP. R/W LINE

+00.00
60.00' LT

S-207

BEGIN CONSTRUCTION
DITCH EL. 11.50

+00.00
52.00' LT

C&G (TYPE F)

℄ OF DRIVEWAY
+45.00
18'

BEGIN ℄ CARUSO RD. RAMP
STA. 413+94.74=
℄ CONST. CARUSO
STA. 311+56.27

CONST 290 LF 18" PIPE

5' CONC. SWK.

S-200

S-208

307

308

309

310

311

312
STA. 413+94.74

313

CR-A

CR-G

911

+20.14
6.00' RT

+45.55
6.00' RT

℄ CONST. CARUSO

CURVE NO.
BL CARUSO RD (14)

+89.00
6.00' RT

PROP. R/W LINE

912

+71.00
6.00' RT

+21.00
16.00' RT

R=35'

+34.39
0.00' RT

+82.76
71.00' RT

PC STA. 414+89.22

+26.00
23.89' RT

+76.70
35.61' RT

+88.71
35.54' RT

12'

+00.97
16.00' RT

R=35'

+21.83
35.11' RT

913

EXIST. SWK.
TO BE REMOVED

+45.41
22.00' RT

CARUSO RD RAMP

415

℄ OF DRIVEWAY
PER MANATEE COUNTY STANDARD 101.0
+12.78

+28.57
11.09' RT

℄ CARUSO RD. RAMP

11'

914

+32.65
22.56' RT

+32.73
35.08' RT

CURVE NO.
℄ CARUSO RD. RAMP (15)

ASH AVE. DR. EAST

℄ OF DRIVEWAY
PER MANATEE COUNTY STANDARD 101.0
+36.55

5' CONC. SWK.

℄ OLD CARUSO

915

416

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING
ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
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(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

ROADWAY PLANS (17)

SHEET NO. 52

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CARUSO RD

PROP. R/W LINE

5' CONC. SWK.

C&G TYPE F)

+47.36
61.00' LT

BEGIN 12' LANE SHIFT
+66.00, 28.00' LT

℄ OF DRIVEWAY
+00.00

+50.00
61.00' LT

+50.00
52.00' LT

+00.07
61.00' LT

CONST 295 LF 24" PIPE

24'

6'

R = 25'

S-202

CONST 133 LF 30" PIPE

S-203

S-201B

18" PIPE

CR-G

S-201

CONST 200 LF 24" PIPE

CURVE NO.
BL CARUSO RD (13)

CURVE NO.
BL CARUSO RD (14)

MATCHLINE STA. 314+00.00

MATCHLINE STA. 321+00.00

314

315

316

317

318

319

320

CONST 115 LF 24" PIPE

CONST 158 LF 30" PIPE

℄ CONST. CARUSO

PT STA. 316+00.07

PC STA. 318+47.36

+47.36
71.00' RT

+43.25
86.00' RT

PROP. R/W LINE

S-201A

GRADE TO DRAIN

GRADE TO DRAIN

S-202A

PROP. R/W LINE

DRAINAGE EASEMENT

SMF 3

0 10 50
Feet

LEGEND

PAVEMENT REMOVAL

WIDENING

MILL AND RESURFACE

6" CONCRETE LANDING
ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.

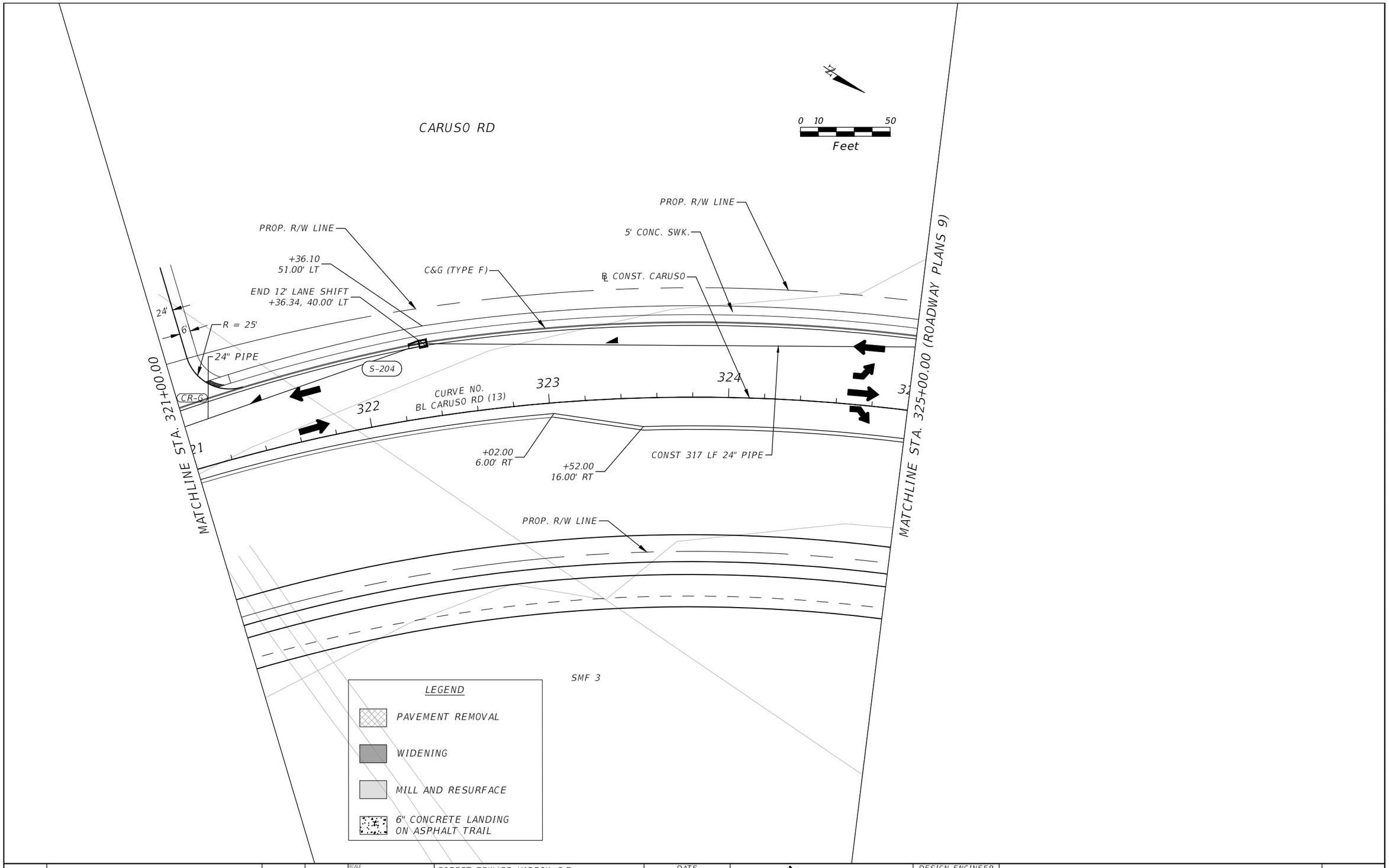
FL. LICENSE NO.: 67495

ROADWAY PLANS (18)

SHEET NO.: 53

Mitch Johnson 5/17/2019 10:34:27 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD02.dwg

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No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

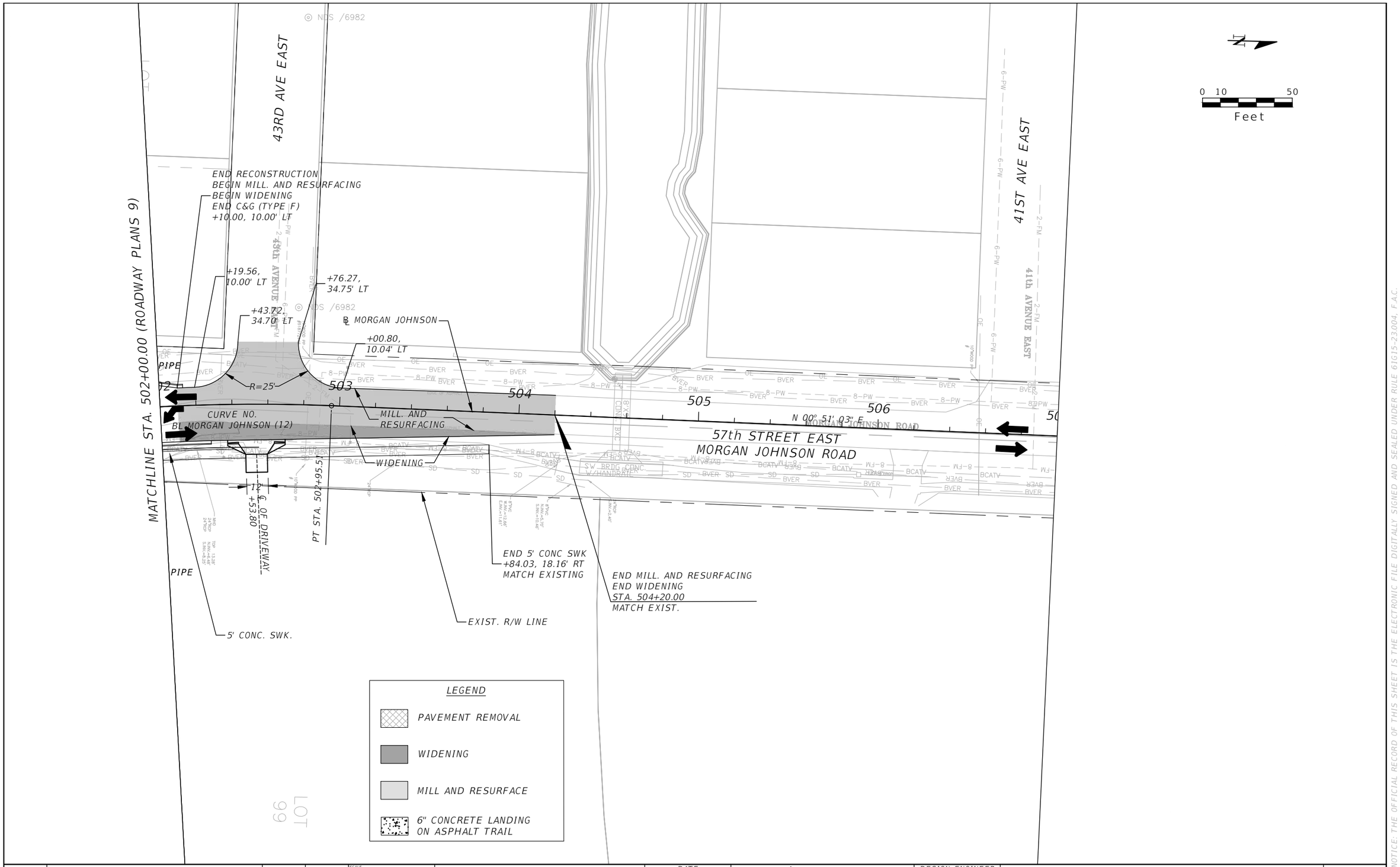
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

ROADWAY PLANS (19)

SHEET NO. 54

Mitch Johnson 5/17/2019 10:35:07 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD02.dwg

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No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

ROADWAY PLANS (20)

SHEET NO.: 55

Mitch Johnson 5/17/2019 10:35:45 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD02.dwg

CARUSO RD

0 10 50
Feet

BEGIN CONSTRUCTION DITCH EL. 11.50

S-207

S-208

CURVE NO. 311
℄ CARUSO RD (14)

310

309

308

BEGIN ℄ CARUSO RD RAMP
STA. 413+94.74=
CONST. CARUSO ℄ STA. 311+56.27

PC STA. 414+89.22

PROP. R/W LINE

℄ CARUSO RD RAMP

22'

415

4' UNPAVED SHLDR.

℄ OF DRIVEWAY
+50.00

END 5' CONC. SWK
+88.46, 22.80' LT
MATCH EXIST.

24'

+92.89
36.34' LT

416

℄ CARUSO RD RAMP (15)

417

911 912 913 914 915 916 917

PC +30.35
32.70' RT

R=50'

MILL AND RESURFACE

+09.88
7.41' RT

R=50'

+31.13
15.71' RT

℄ OLD CARUSO

A

A

MATCHLINE STA. 307+00.00 (ROADWAY PLANS 16)

MATCHLINE STA. 917+50.00 (ROADWAY PLANS 22)

45th AVE. DR. EAST

45TH AVE DR. EAST

LEGEND

- PAVEMENT REMOVAL
- WIDENING
- MILL AND RESURFACE
- 6" CONCRETE LANDING ON ASPHALT TRAIL

EXISTING GROUND

OBLITERATE EXISTING ROADWAY

15'

1:50

GRADE 1:50 FROM 15' LEFT OF EXISTING EOP

A-A
GRADING DETAIL
N.T.S

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

ROADWAY PLANS (21)

SHEET NO.: 56

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MATCHLINE STA. 917+50.00 (21)

MATCHLINE STA. 924+50.00 (ROADWAY PLANS 11)

PT STA. 417+56.76

END STA. 419+00.00

END ℄ CARUSO RD RAMP
STA. 419+00.00=
℄ OLD CARUSO
STA. 919+00.00, 11.00' RT

(OLD CARUSO RD)
60TH STREET EAST

EXIST. R/W LINE

0 10 50
Feet

418
419
918
919
920
921
922
923
924

MILL AND RESURFACE

BEGIN MILLING AND RESURFACING
+75.01, 11.05' RT

℄ OLD CARUSO

EXIST. R/W LINE

CONNECT EXIST. PIPE TO

IRC [See Comment] FOUND PK NAIL & WASHER STAMPED LB 7860 IN GOOD CONDITION

IRC [See Comment] FOUND 0.625" IN I.R. W/ PLASTIC

LOT
41

LEGEND

- PAVEMENT REMOVAL
- WIDENING
- MILL AND RESURFACE
- 6" CONCRETE LANDING ON ASPHALT TRAIL

No.	REVISIONS	DATE	BY

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ROBERT EDWARD HIDECK, P.E.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

ROADWAY PLANS (22)

SHEET NO. 57

Mitch Johnson 5/17/2019 10:40:23 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD03.dwg

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BM No. 101
IRS LB6982
63.21' RT, Sta. 166+76.56
Elev. 15.71'

BM No. 131
CMF FDOT BM 8
69.16' RT, Sta. 167+60.17
Elev. 16.31'

BEGIN WB PGL
STA. 167+00.00
EL. 16.57
MATCH EXISTING
(FLARE PAVT. WEST AT
1:50 TO MATCH)

PI +00.00
EL. 16.57

PI +25.00
EL. 16.63

PI +50.00
EL. 16.69

PI +70.00
EL. 16.74

PI +24.00
EL. 16.88

+0.240% +0.240% +0.250% +0.259% +0.299% −0.400%

S-100 S-101A S-104 S-106B S-106 S-108A

16.68 16.43 15.04 17.40 10.63

BEGIN EB PGL
STA. 167+00.00
EL. 16.57
MATCH EXISTING

BCWE = 13.1

18" PIPE

FL 10.95

FL 10.40

34"x53" PIPE

18" PIPE

FL 9.40

EXIST. GROUND
AT EB PGL

EXIST. GROUND
AT WB PGL

PGL

PI +00.00
EL. 18.00

BCWE = 13.5

18" PIPE

EXIST. GROUND
AT ℄ CONST.

42" PIPE

42" PIPE

FL 8.25

FL 8.20

36" PIPE

BCWE = 14.0

48" PIPE

48" PIPE

FL 8.10

FL 8.10

SEE INTERSECTION DETAILS 45TH ST EAST
FOR CONTINUATION

NOTE: PROFILE SHEET (1) WAS INTENTIONALLY LEFT OUT OF SET SO PROFILE SHEET LIMITS WOULD MATCH PLANSHEETS.

1" = 50' Horizontal
1" = 5' Vertical

35 30 25 20 15 10 5 0 −5 −10

167+00 168+00 169+00 170+00 171+00 172+00 173+00

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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROFILE SHEET (2)
44TH AVENUE EAST

SHEET NO. 58

Mitch Johnson 2/7/2019 8:47:06 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PROFRD01.dwg

BM No. 142
RDF MANCO CL HEADWALL
1.36' RT, Sta. 175+42.36
Elev. 16.32'

BM No. 102
IRS LB6982
37.91' RT, Sta. 175+74.47
Elev. 15.63'

BM No. 130
SQUARE CUT WMBP BM 4435
5.31' RT, Sta. 179+30.89
Elev. 16.10'

PI +00.00
EL. 16.80

PI +50.00
EL. 17.55

PI +40.00
EL. 16.68

PGL

S-111 S-111A S-114A S-115 S-117A S-118

-0.400% +0.300% -0.300%

17.40 16.71 10.63 10.70

24" PIPE 18" PIPE BCWE = 14.0 18" PIPE EXIST. GROUND AT EB PGL 18" PIPE BCWE = 13.9 EXIST. GROUND AT WB PGL 36" PIPE 18" PIPE

48"PIPE 48"PIPE 48"PIPE 54"PIPE 54" PIPE 24" PIPE 54" PIPE

EXIST. GROUND AT ℄ CONST.

FL 8.00 FL 7.90 FL 7.80 FL 7.80 FL 7.70 FL 7.70 FL 7.20 FL 6.80

35 30 25 20 15 10 5 0 -5 -10

174+00 175+00 176+00 177+00 178+00 179+00 180+00

1" = 50' Horizontal
1" = 5' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO. 67495

PROFILE SHEET (3)
44TH AVENUE EAST

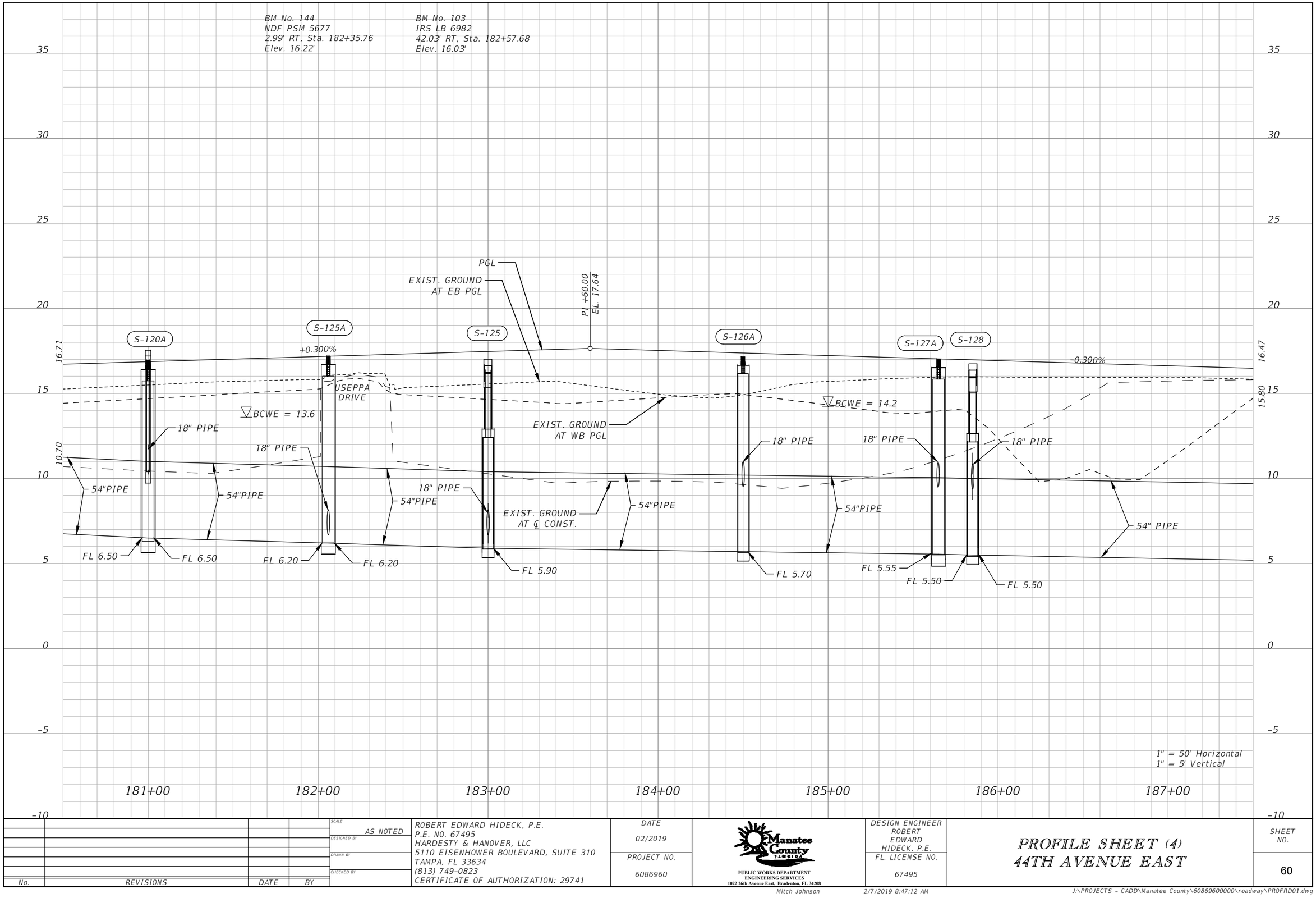
SHEET NO. 59

Mitch Johnson 2/7/2019 8:47:09 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PROFRD01.dwg

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BM No. 144
NDF PSM 5677
2.99' RT, Sta. 182+35.76
Elev. 16.22'

BM No. 103
IRS LB 6982
42.03' RT, Sta. 182+57.68
Elev. 16.03'



No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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5110 EISENHOWER BOULEVARD, SUITE 310
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

PROFILE SHEET (4)
44TH AVENUE EAST

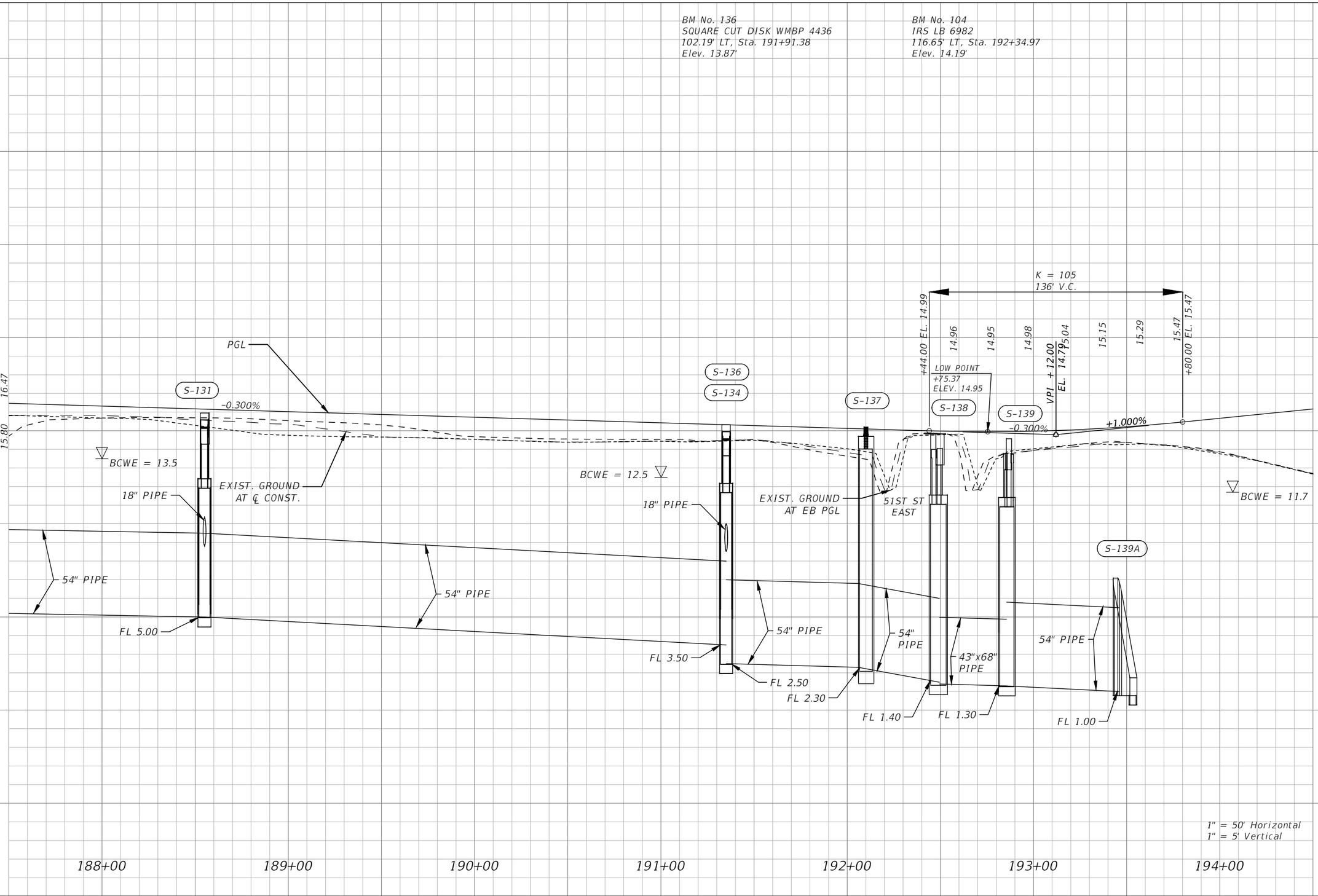
SHEET NO.: 60

Mitch Johnson
2/7/2019 8:47:12 AM
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BM No. 136
SQUARE CUT DISK WMBP 4436
102.19' LT, Sta. 191+91.38
Elev. 13.87'

BM No. 104
IRS LB 6982
116.65' LT, Sta. 192+34.97
Elev. 14.19'



1" = 50' Horizontal
1" = 5' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

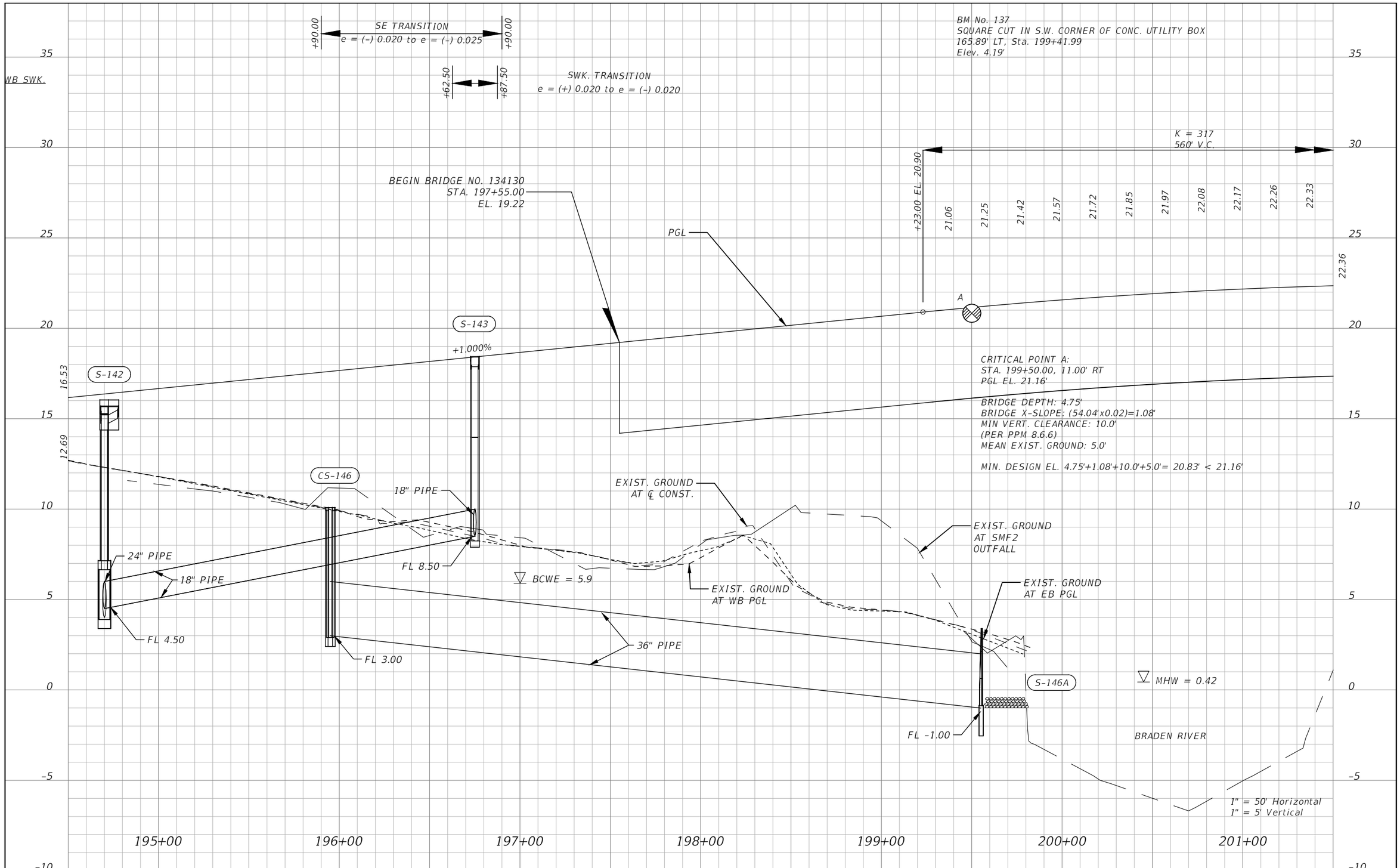
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROFILE SHEET (5)
44TH AVENUE EAST

SHEET NO. 61

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2/7/2019 8:47:15 AM
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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

PROFILE SHEET (6)
44TH AVENUE EAST

SHEET NO.: 62

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K = 317
560' V.C.

22.38 22.43 22.46 22.48 22.48 22.48 22.46 22.43 22.38 22.33 22.26 22.18 22.08 21.97 21.86 21.72 21.58

+83.00 EL. 21.56

VPI + 03:00
EL. 23.70

22.36

+1.000%

-0.765%

HIGH POINT
+40.23
ELEV. 22.48

PGL

-0.765%

18.75

B

C

CRITICAL POINT B:
STA. 203+82.07, 11.00' RT
PGL EL. 22.16'

BRIDGE DEPTH: 4.75'
BRIDGE X-SLOPE: (54.04'x0.02)=1.08'
MIN VERT. CLEARANCE: 10.0'
(MATCHES BRIDGE AT SR 64)
MEAN HIGH WATER EL: 0.42'

MIN. DESIGN EL. 4.75'+1.08'+10.0'+0.42'= 16.25' < 22.16'

CRITICAL POINT C:
STA. 206+00, 11.00' RT
PGL EL. 20.66'

BRIDGE DEPTH: 4.75'
BRIDGE X-SLOPE: (54.04'x0.02)=1.08'
MIN VERT. CLEARANCE: 10.0'
(MATCHES BRIDGE AT SR 64)
MEAN HIGH WATER EL: 0.42'

MIN. DESIGN EL. 4.75'+1.08'+10.0'+0.42'= 16.25' < 20.66'

EXIST. GROUND

BRADEN RIVER

MHW = 0.42

1" = 50' Horizontal
1" = 5' Vertical

35 30 25 20 15 10 5 0 -5 -10

202+00 203+00 204+00 205+00 206+00 207+00 208+00

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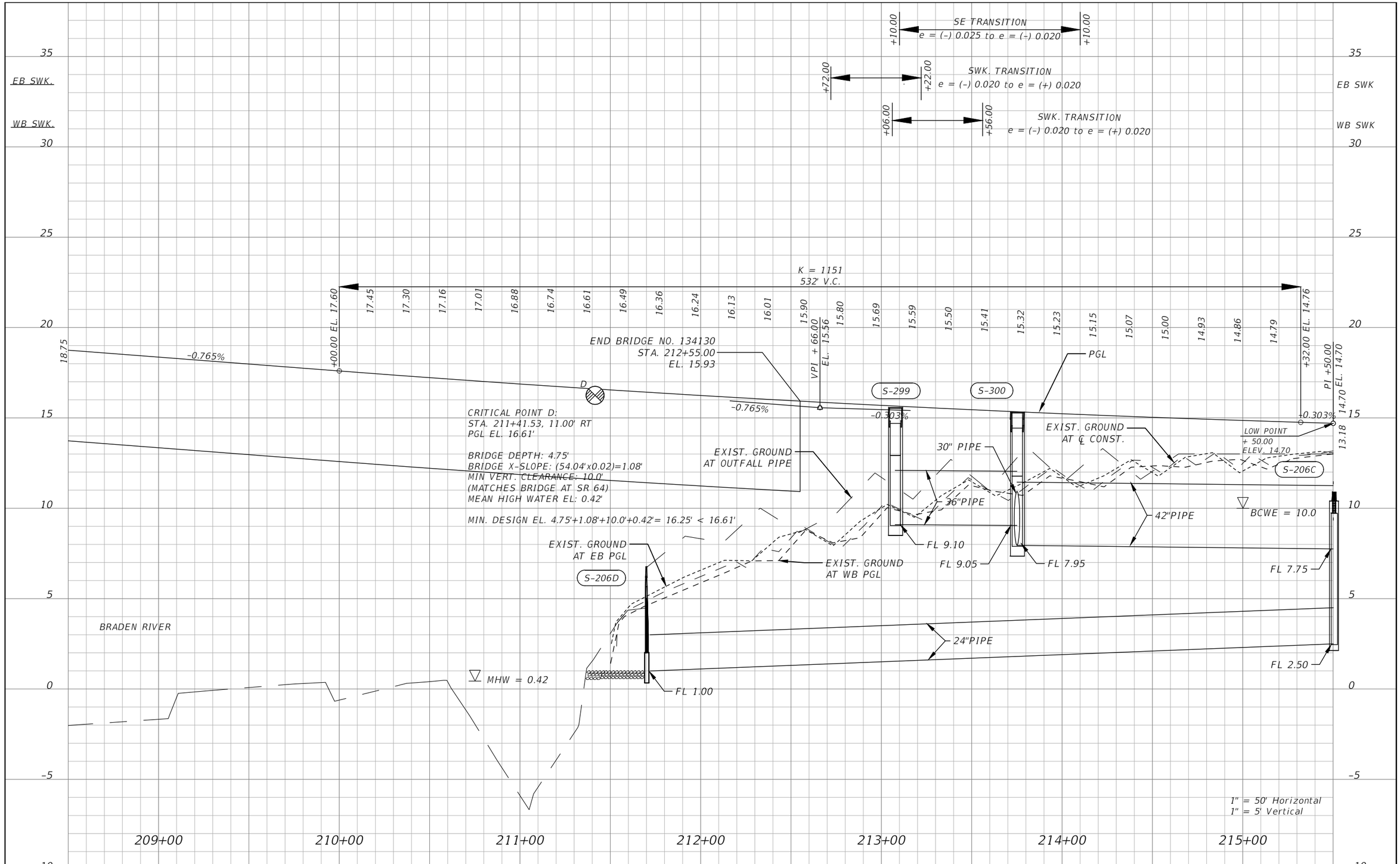
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ROBERT EDWARD HIDECK, P.E.
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PROFILE SHEET (7)
44TH AVENUE EAST

SHEET NO. 63

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PROFILE SHEET (8)
44TH AVENUE EAST

SHEET NO. 64

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BM No. 112
IRS LB 6982
105.54' LT, Sta. 219+20.50
Elev. 14.61'

BM No. 117
BRASS DISK FDEP 6238G 2007
450.73' LT, Sta. 219+73.04
Elev. 14.20'

EB SE TRANSITION
e = (NC) to e = (–) 0.010

EB FULL SE
e = (–) 0.010

EB SE TRANSITION
e = (–) 0.010 to e = (NC)

+40.00 | +15.00 | +60.00 | +35.00

35 30 25 20 15 10 5 0 –5 –10

216+00 217+00 218+00 219+00 220+00 221+00 222+00

S-302
PI +50.00
EL. 14.70
13.18
14.70
+0.300%
18" PIPE
FL 7.25
48"PIPE
24"PIPE
BCWE = 11.1
PI +00.00
EL. 15.45
S-304
S-206B
S-206A
EXIST. GROUND
AT EB PGL
18" PIPE
FL 6.80
24"
PIPE
FL 6.30
FL 4.90
FL 4.95
FL 5.00
24"PIPE
CARUSO RD /
MORGAN JOHNSON RD
18" PIPE
54"PIPE
–0.300%
PGL
S-306
CS-206
FL 5.80
FL 5.80
54"PIPE
BCWE = 10.8
EXIST. GROUND
AT ℄ CONST.
PI +10.00
EL. 14.22
S-308
+0.300%
14.34
11.85
18" PIPE
54"PIPE
FL 5.20
EXIST. GROUND
AT WB PGL

1" = 50' Horizontal
1" = 5' Vertical

No.	REVISIONS	DATE	BY

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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROFILE SHEET (9)
44TH AVENUE EAST

SHEET NO. 65

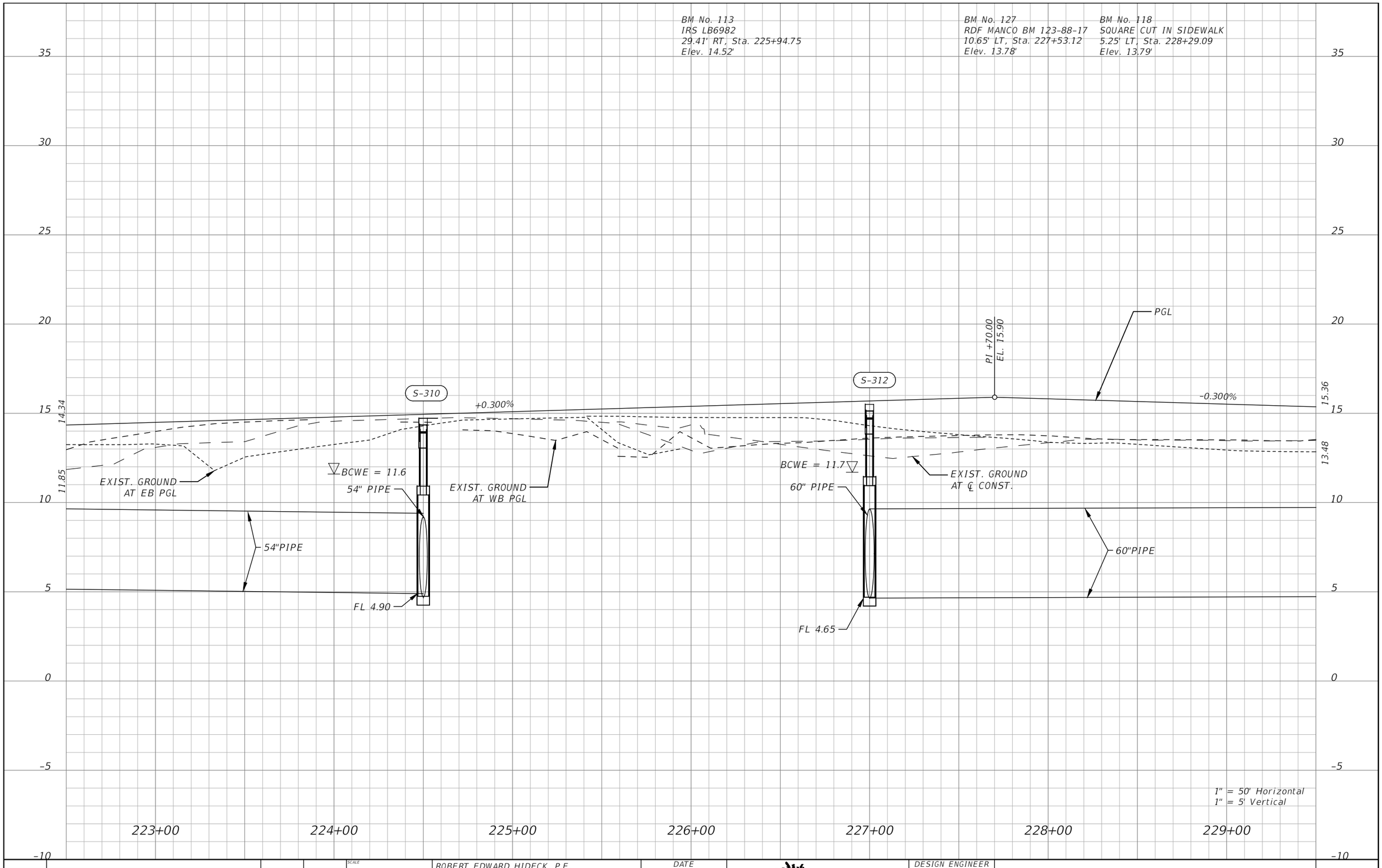
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BM No. 113
IRS LB6982
29.41' RT, Sta. 225+94.75
Elev. 14.52'

BM No. 127
RDF MANCO BM 123-88-17
10.65' LT, Sta. 227+53.12
Elev. 13.78'

BM No. 118
SQUARE CUT IN SIDEWALK
5.25' LT, Sta. 228+29.09
Elev. 13.79'



1" = 50' Horizontal
1" = 5' Vertical

No.	REVISIONS	DATE	BY

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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROFILE SHEET (10)
44TH AVENUE EAST

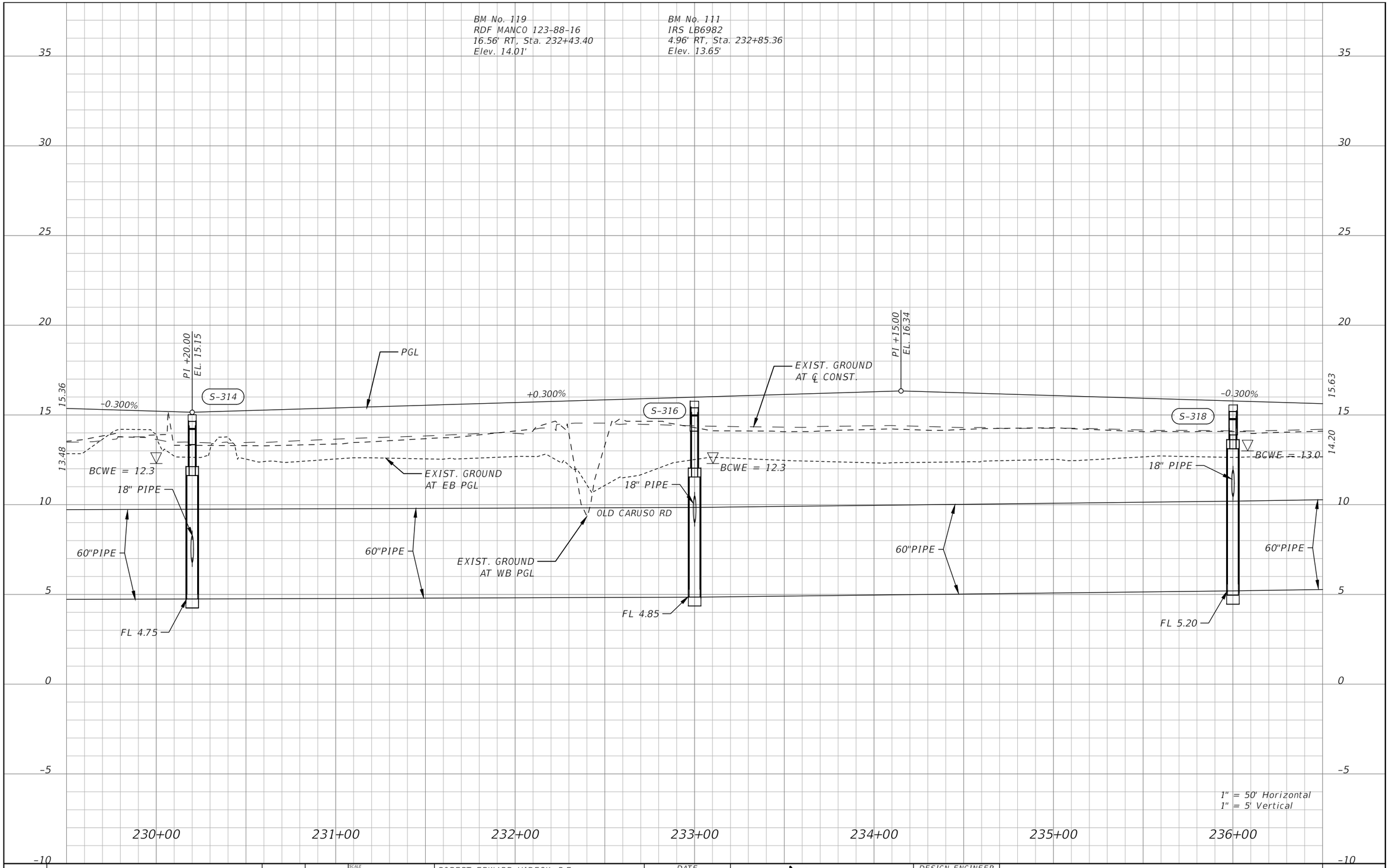
SHEET NO. 66

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BM No. 119
RDF MANCO 123-88-16
16.56' RT, Sta. 232+43.40
Elev. 14.01'

BM No. 111
IRS LB6982
4.96' RT, Sta. 232+85.36
Elev. 13.65'



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Manatee County FLORIDA
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ROBERT EDWARD HIDECK, P.E.
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PROFILE SHEET (11)
44TH AVENUE EAST

SHEET NO. 67

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BM No. 121
X-CUT AT CORNER OF SIDEWALK
5.21' LT, Sta. 240+31.82
Elev. 15.09'

35 30 25 20 15 10 5 0 -5 -10

15.63 14.20 15.61 14.28

S-320 S-320A S-322

PI +92.00
EL. 15.21

PGL

-0.300% +0.300% +0.300% -0.600% -0.600%

K = 151
136' V.C.

K = 179
161' V.C.

+32.00 EL. 16.23
16.27
16.28
16.29
VPI +00.00
EL. 16.43
16.23
16.16
16.07
+68.00 EL. 16.02
+97.00 EL. 15.85
15.73
15.64

62ND ST. EAST

HIGH POINT
+ 77.36
ELEV. 16.29

BCWE = 13.5

EXIST. GROUND AT EB PGL

18" PIPE

60"PIPE

FL 5.50

BCWE = 12.1

18" PIPE

14"x23" PIPE

60"PIPE

FL 5.56

EXIST. GROUND AT ℄ CONST.

62ND ST. EAST

60"PIPE

EXIST. GROUND AT WB PGL

18" PIPE

FL 5.70

FL 6.20

54"PIPE

1" = 50' Horizontal
1" = 5' Vertical

237+00 238+00 239+00 240+00 241+00 242+00 243+00

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROFILE SHEET (12)
44TH AVENUE EAST

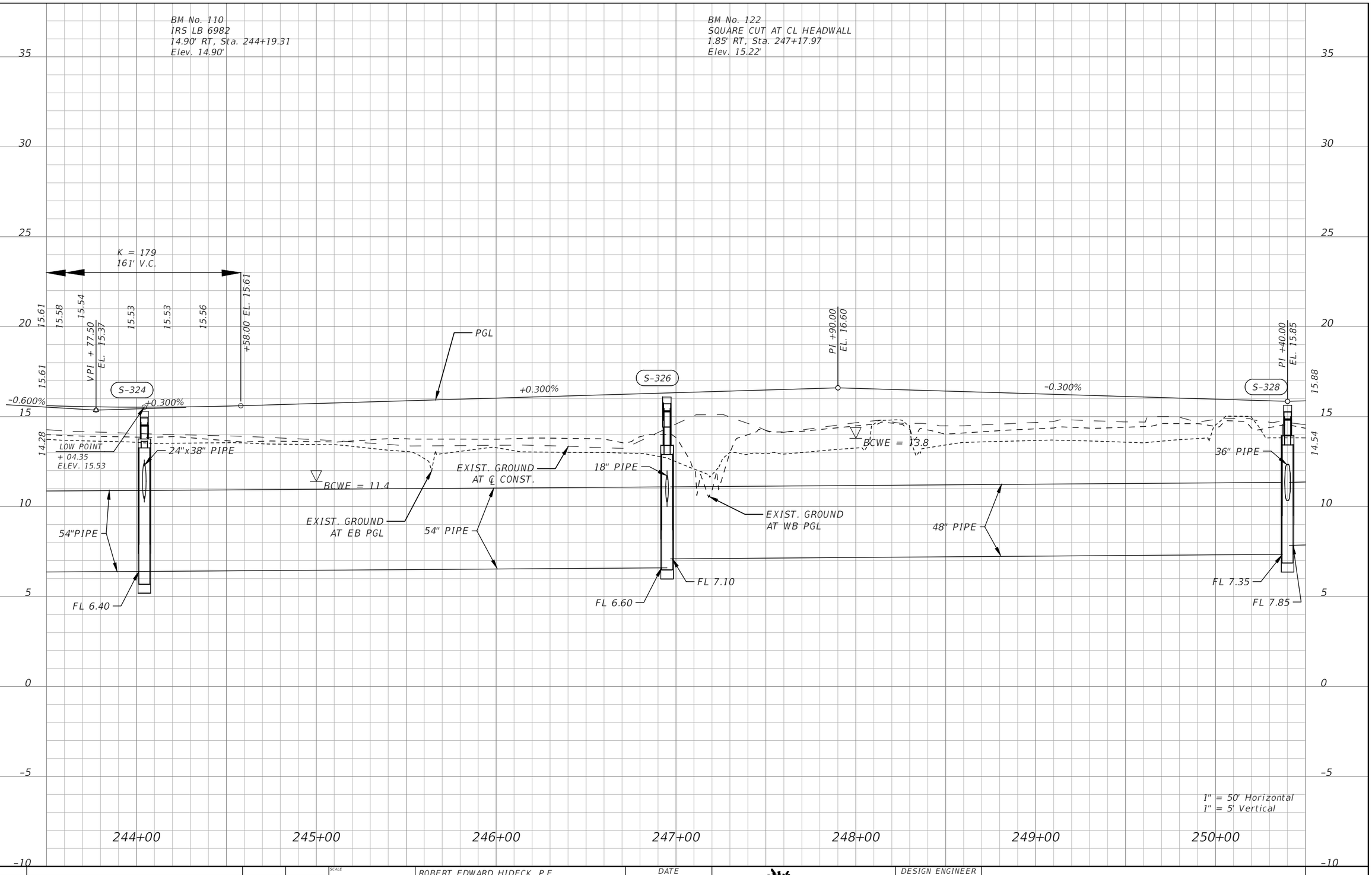
SHEET NO. 68

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BM No. 110
IRS LB 6982
14.90' RT, Sta. 244+19.31
Elev. 14.90'

BM No. 122
SQUARE CUT AT CL HEADWALL
1.85' RT, Sta. 247+17.97
Elev. 15.22'



No.	REVISIONS	DATE	BY

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DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.
FL. LICENSE NO.
67495

PROFILE SHEET (13)
44TH AVENUE EAST

SHEET NO.
69

Mitch Johnson 2/7/2019 8:47:37 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PROFRD01.dwg

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BM No. GULF
GULF
6.24' RT, Sta. 254+10.34
Elev. 14.85'

+24.00

WB SE TRANSITION
e = (-) 0.020 TO e = (+) 0.020

PGL

PI +15.00
EL. 17.88

+0.580%

+0.300%

15.88

14.54

18.08

16.23

S-330

EXIST. GROUND
AT EB PGL

S-330A

65TH ST. EAST

EXIST. GROUND
AT WB PGL

S-332

BCWE = 12.9

BCWE = 14.2

BCWE = 14.6
EXIST. GROUND
AT ℄ CONST.

18" PIPE

18" PIPE

18" PIPE

18" PIPE

30"PIPE

42" PIPE

36" PIPE

36" PIPE

FL 8.40

FL 8.90

FL 9.15

FL 10.00

FL 10.50

1" = 50' Horizontal
1" = 5' Vertical

251+00 252+00 253+00 254+00 255+00 256+00 257+00

35 30 25 20 15 10 5 0 -5 -10

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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.

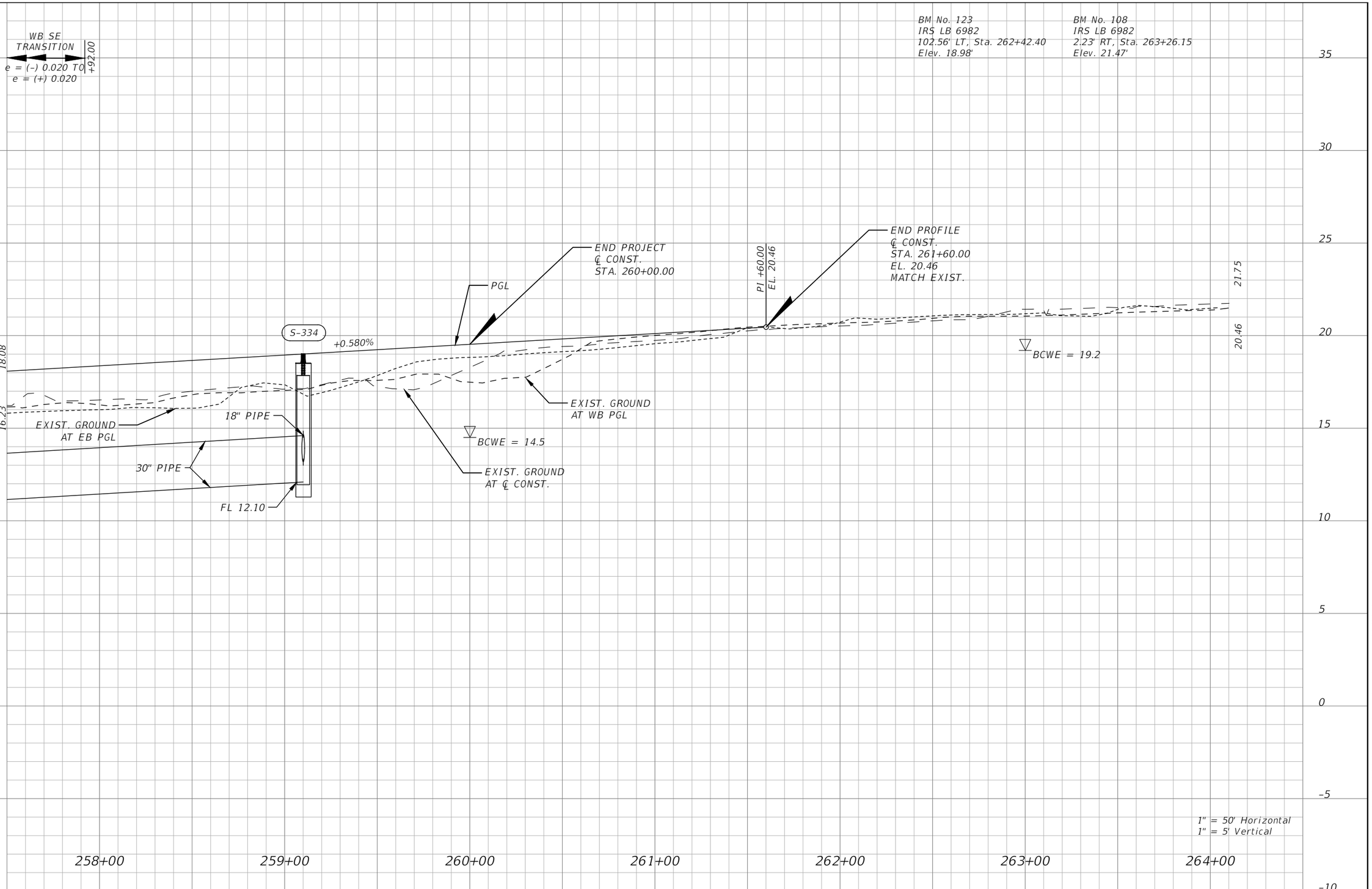
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PROFILE SHEET (14)
44TH AVENUE EAST

SHEET NO.: 70

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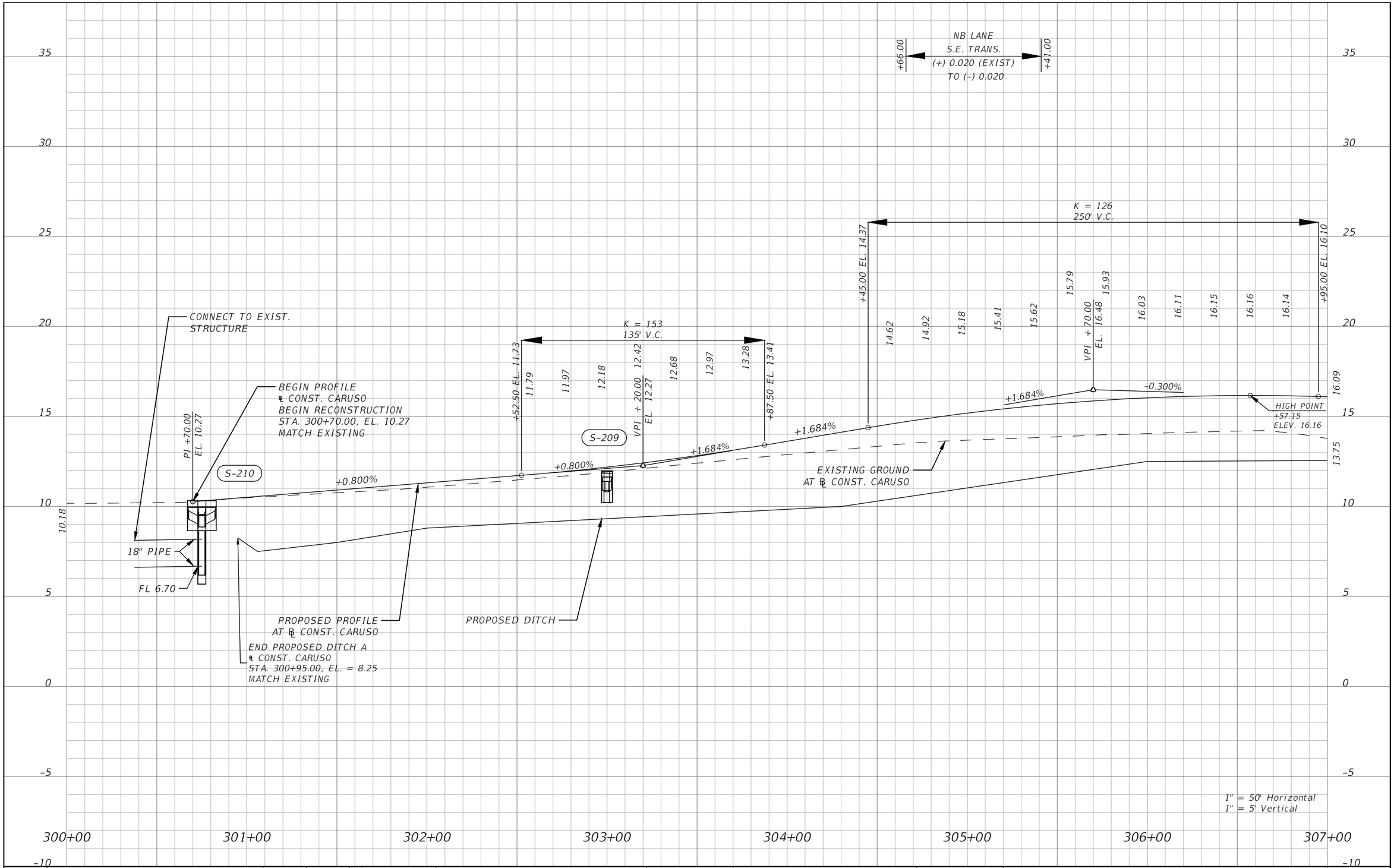
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PROFILE SHEET (15)
44TH AVENUE EAST

SHEET NO.: 71

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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

PROFILE SHEET (16)
CARUSO RD

SHEET NO.: 72

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RT LANE X-SLOPE

+15.00

FULL SE
e = NC

+00.00

RT LANE X-SLOPE

30 25 20 15 10 5 0 -5 -10

16.09

13.75

15.97

12.58

PI +20.00
EL. 15.73

S-208

S-207

PI +70.00
EL. 16.48

STA. +56.27
CARUSO ROAD RAMP

PROPOSED PROFILE
AT ℄ CONST. CARUSO

S-200

PI +20.00
EL. 15.73

-0.300%

+0.300%

-0.300%

+0.300%

BEGIN PROPOSED DITCH A
℄ CONST. CARUSO
STA. 309+00.00, EL. = 13.10
MATCH EXISTING

PROPOSED DITCH

EXISTING GROUND
AT ℄ CONST. CARUSO

18" PIPE

FL 6.50

1" = 50' Horizontal
1" = 5' Vertical

307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00

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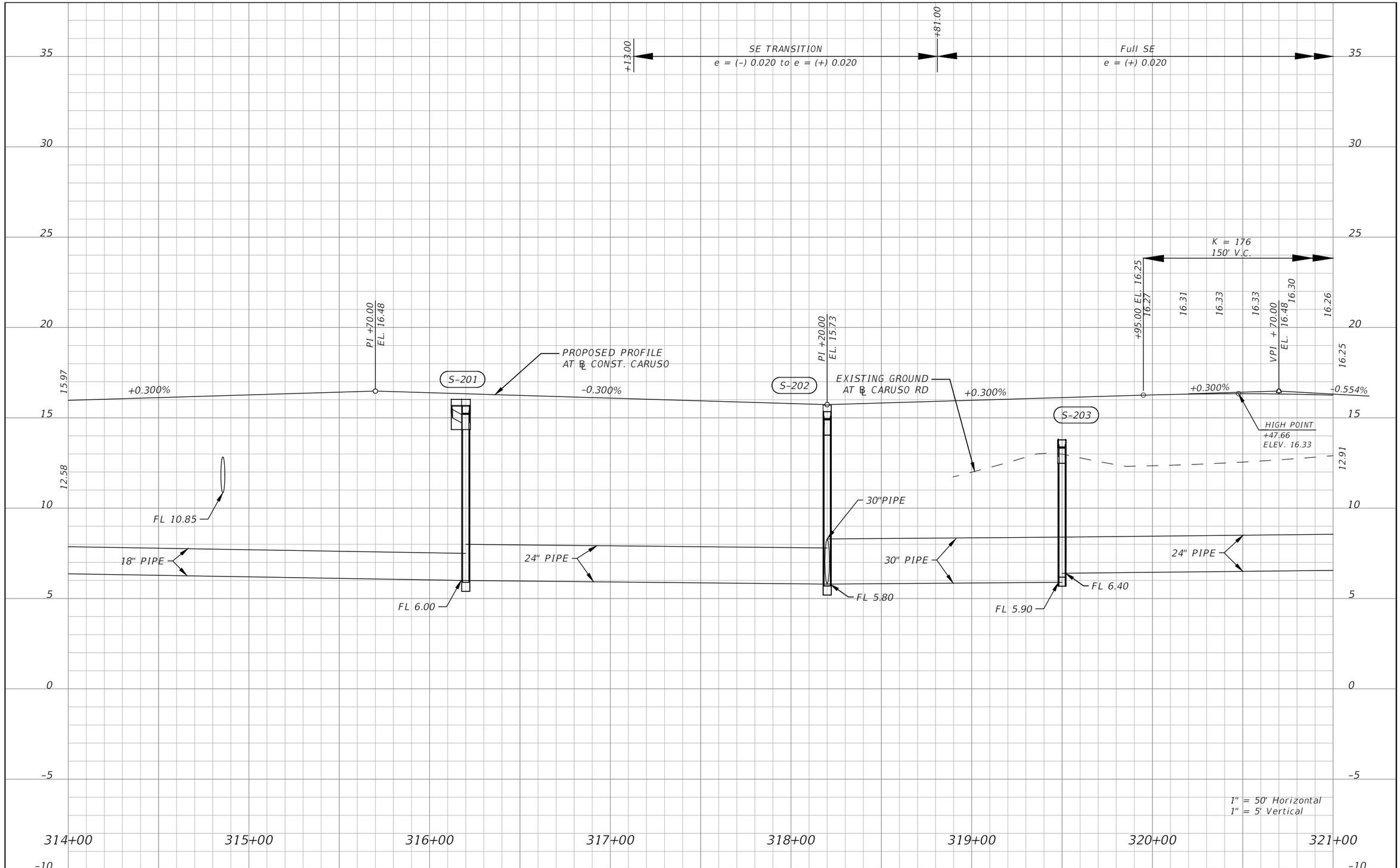
FL. LICENSE NO.: 67495

PROFILE SHEET (17)
CARUSO RD

SHEET NO.: 73

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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

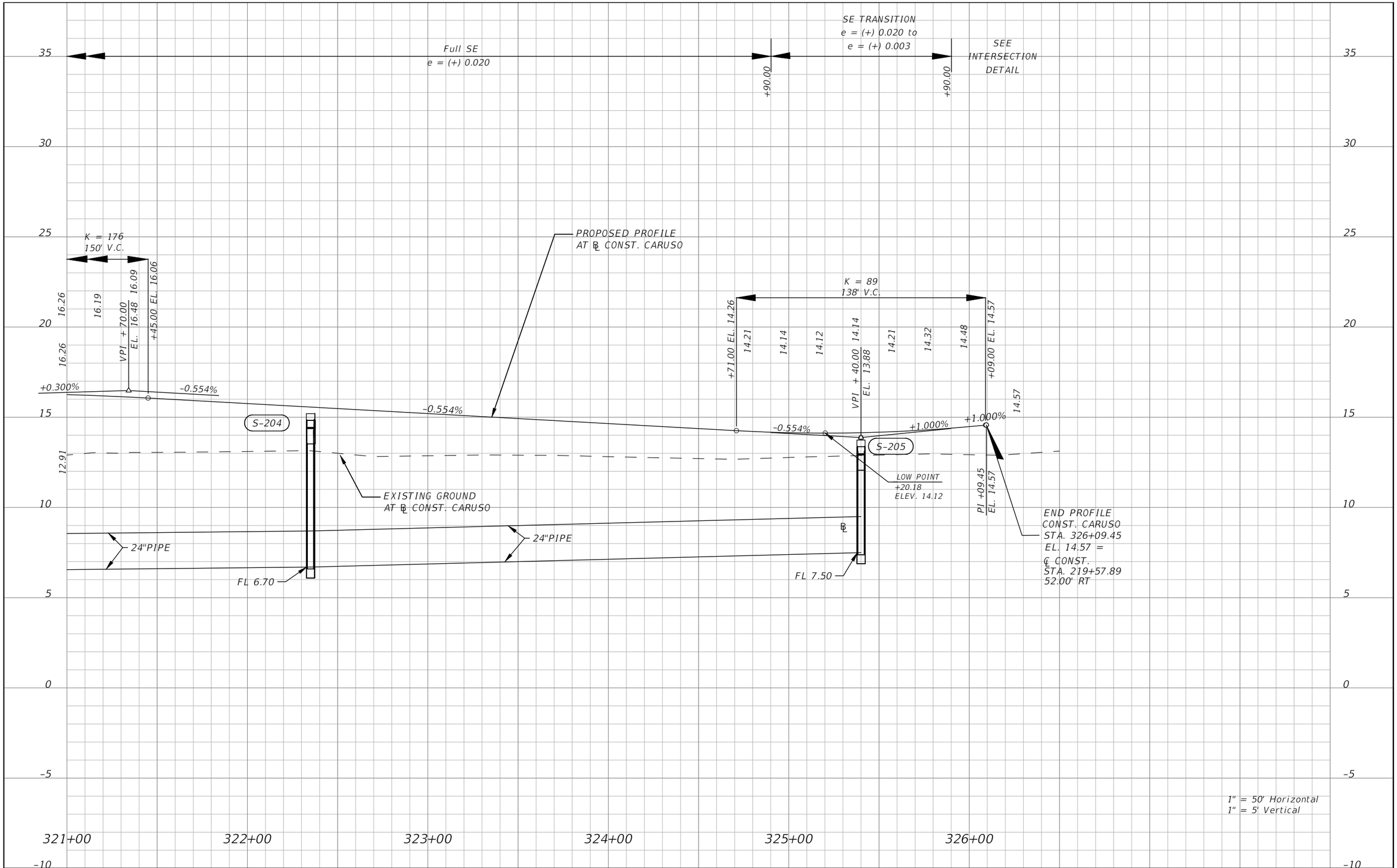
DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.
FL. LICENSE NO.
67495

PROFILE SHEET (18)
CARUSO RD

SHEET NO.
74

Mitch Johnson
2/7/2019 8:49:11 AM
J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PROFRD02.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.

FL. LICENSE NO.: 67495

PROFILE SHEET (19)
CARUSO RD

SHEET NO.: 75

Mitch Johnson 2/7/2019 8:49:13 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PROFRD02.dwg

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30
25
20
15
10
5
0
-5
-10

BEGIN PROFILE
℄ MORGAN JOHNSON
STA. 500+39.03
EL. 14.96
MATCH EXIST.

PROPOSED PROFILE
AT ℄ MORGAN JOHNSON

PI +39.03
EL. 14.96

-0.341%

PI +10.00
EL. 14.38

END PROFILE
℄ MORGAN JOHNSON
STA. 502+10.00
EL. 14.38
BEGIN MILLING & RESURFACING
MATCH EXIST.

END MILLING & RESURFACING
℄ MORGAN JOHNSON
STA. 504+20.00
EL. 14.19
MATCH EXIST.

14.54

12.86

EXIST. GROUND
AT ℄ MORGAN JOHNSON

501+00 502+00 503+00 504+00 505+00 506+00 507+00

1" = 50' Horizontal
1" = 5' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

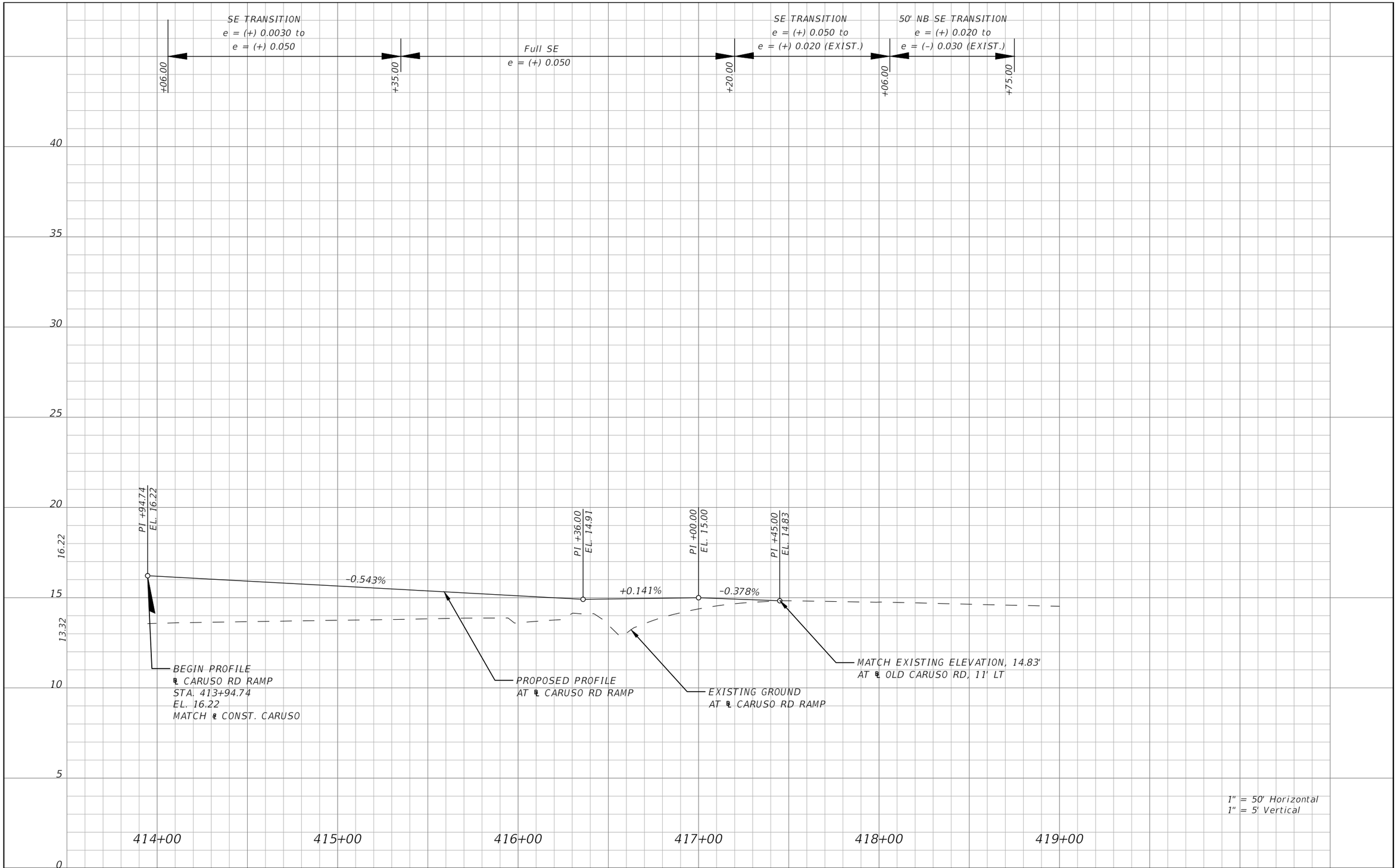
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

PROFILE SHEET (20)
MORGAN JOHNSON RD

SHEET NO. 76

Mitch Johnson 2/7/2019 8:49:15 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PROFRD02.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

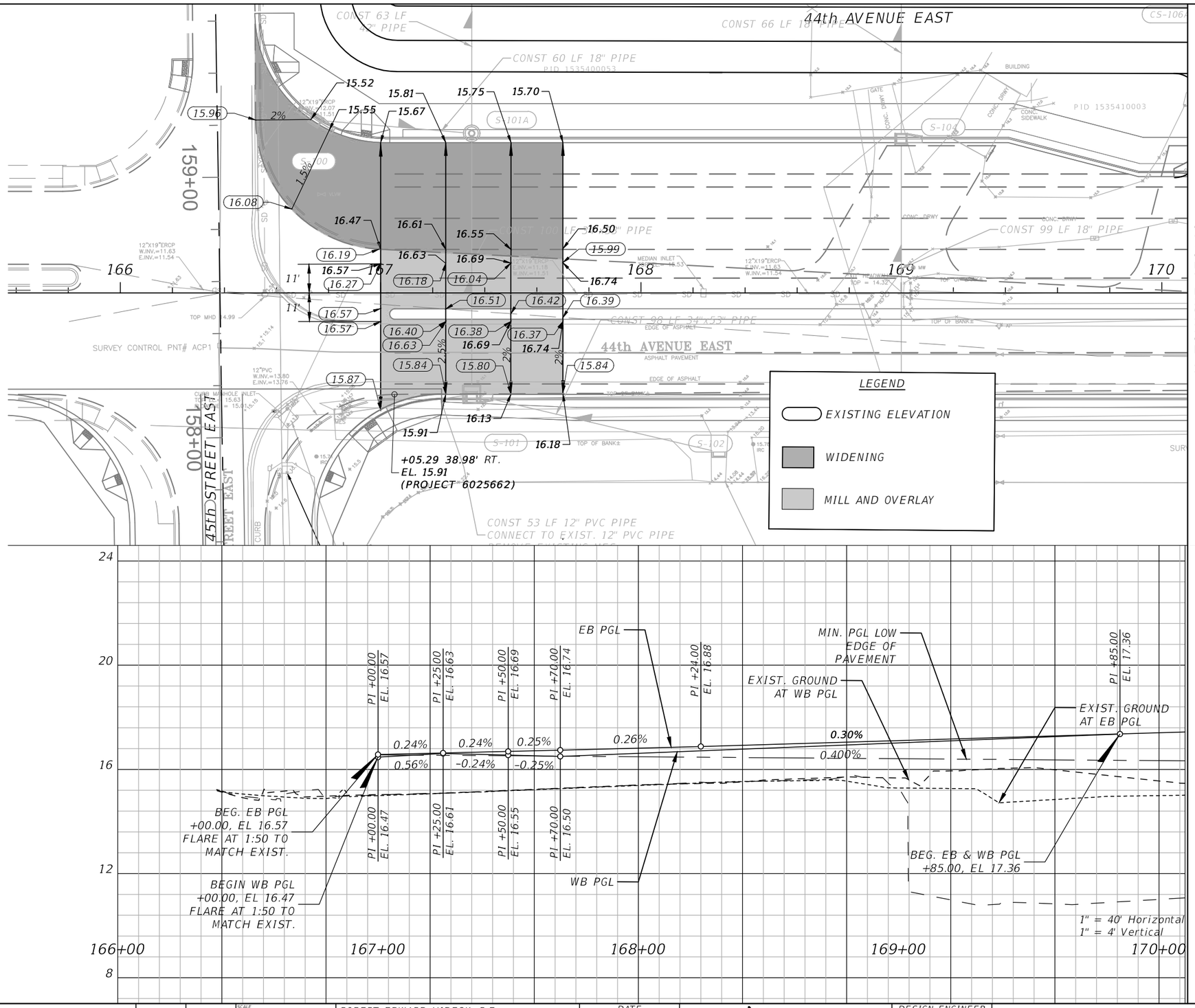
PROFILE SHEET (21)
CARUSO RD RAMP

SHEET NO. 77

Mitch Johnson 2/7/2019 8:49:17 AM

J:\PROJECTS – CADD\Manatee County\60869600000\roadway\PROFRD02.dwg

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SCALE: AS NOTED
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CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

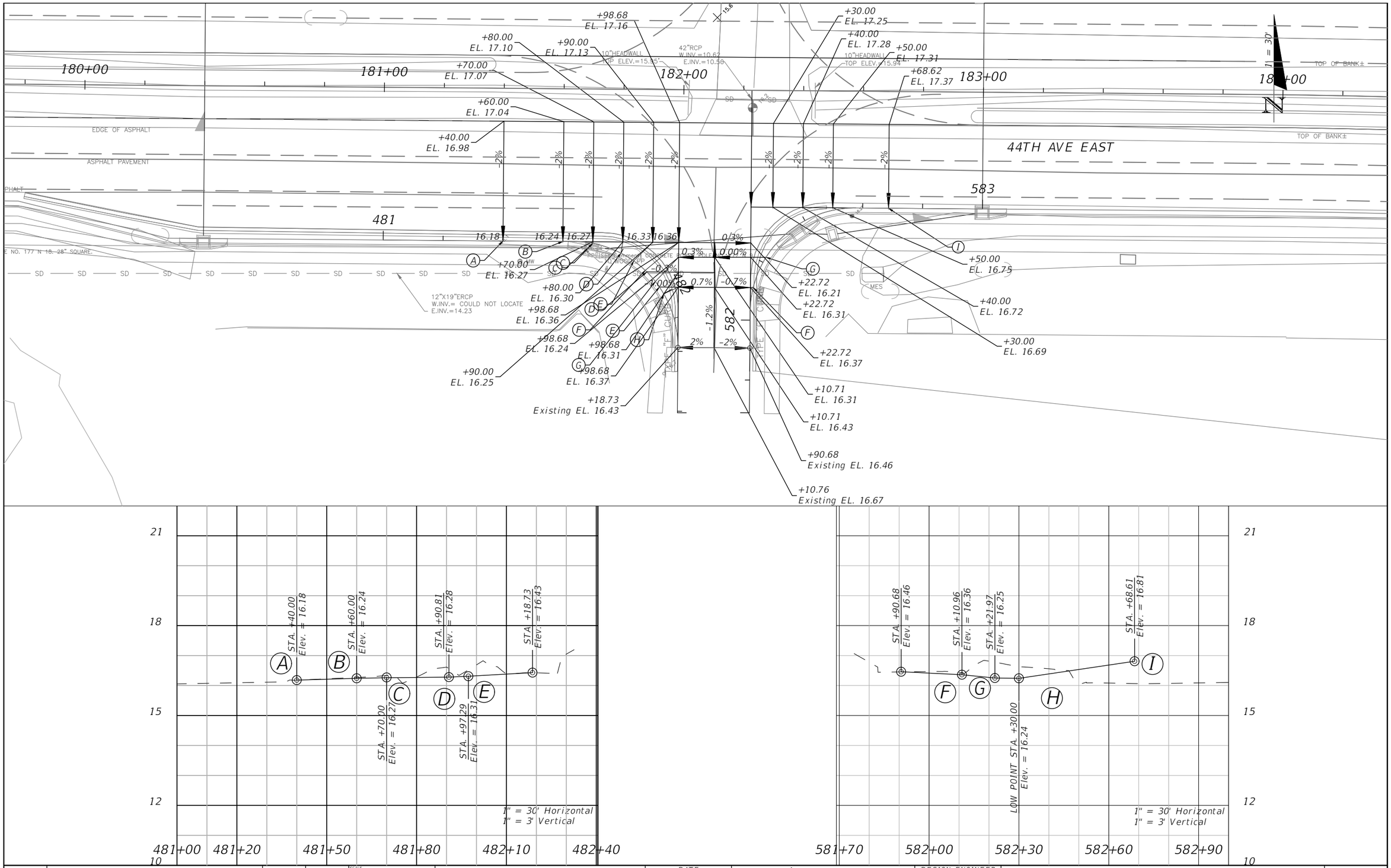
INTERSECTION DETAIL 45TH ST EAST

SHEET NO.: 78

Mitch Johnson 2/11/2019 11:31:15 AM

J:\PROJECTS - CADD\Manatee County\60869600000\roadway\SPDTRD01.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

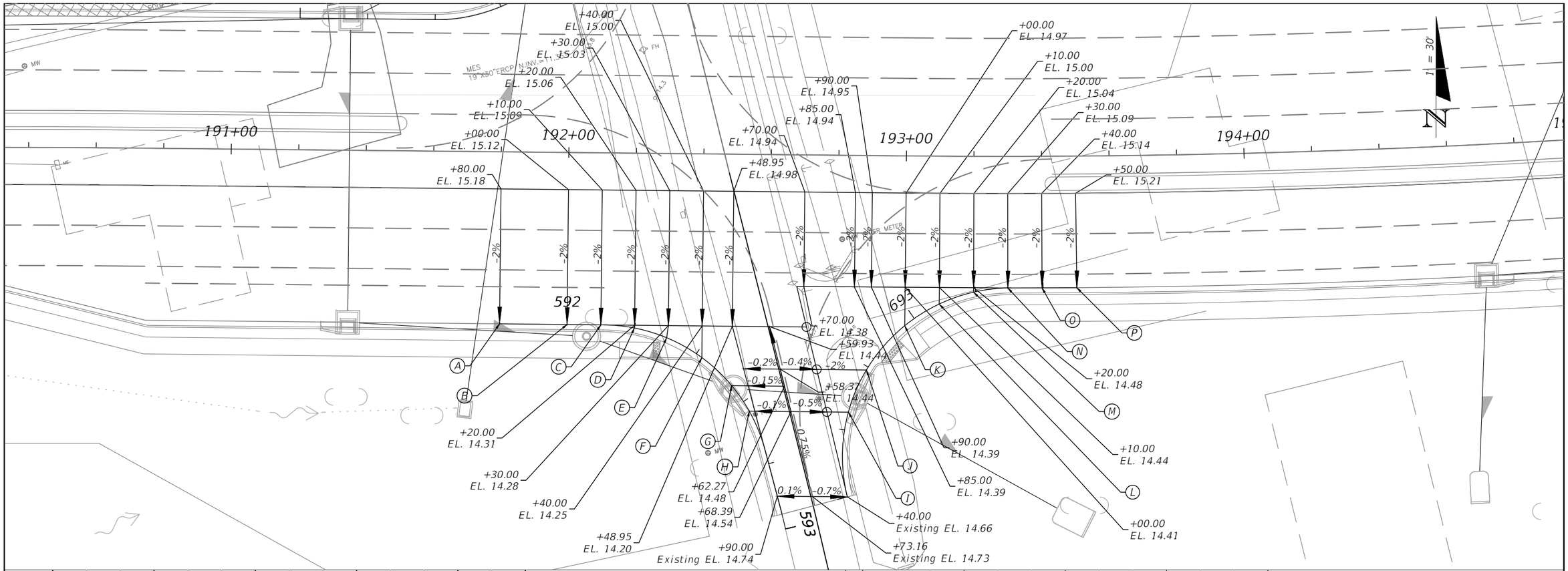
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

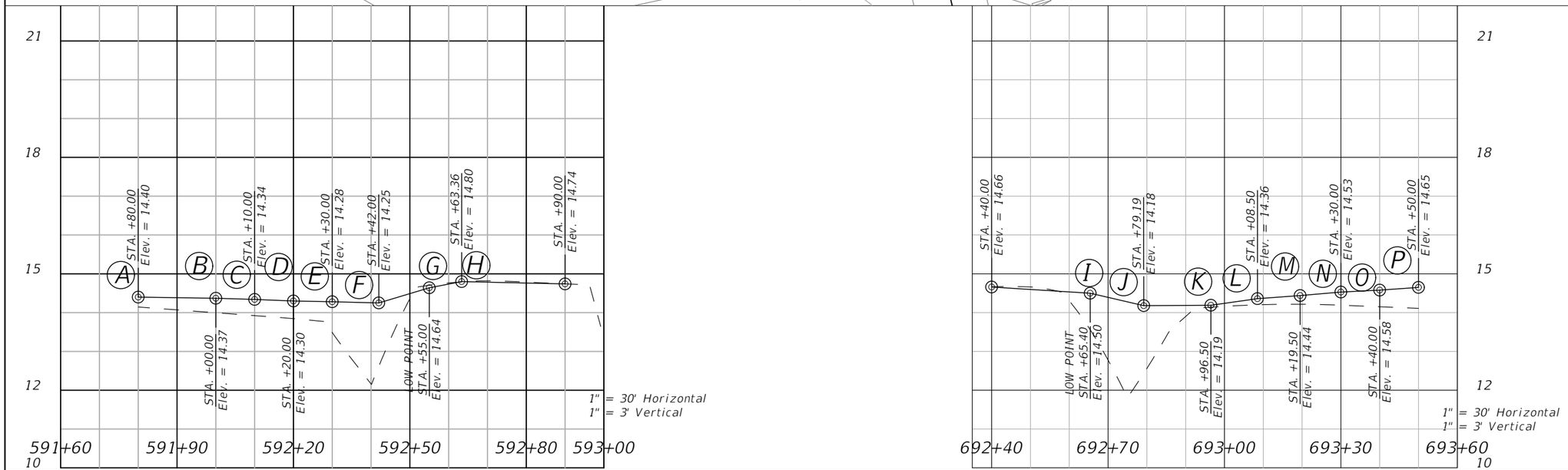
INTERSECTION DETAIL
USEPPA DRIVE

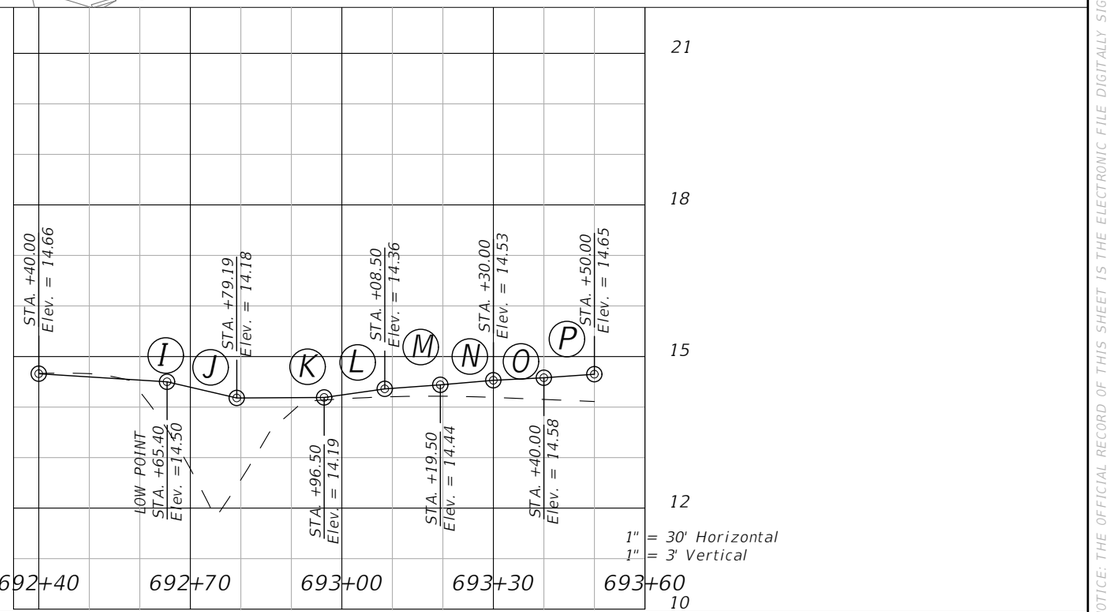
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Mitch Johnson 2/11/2019 9:54:37 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

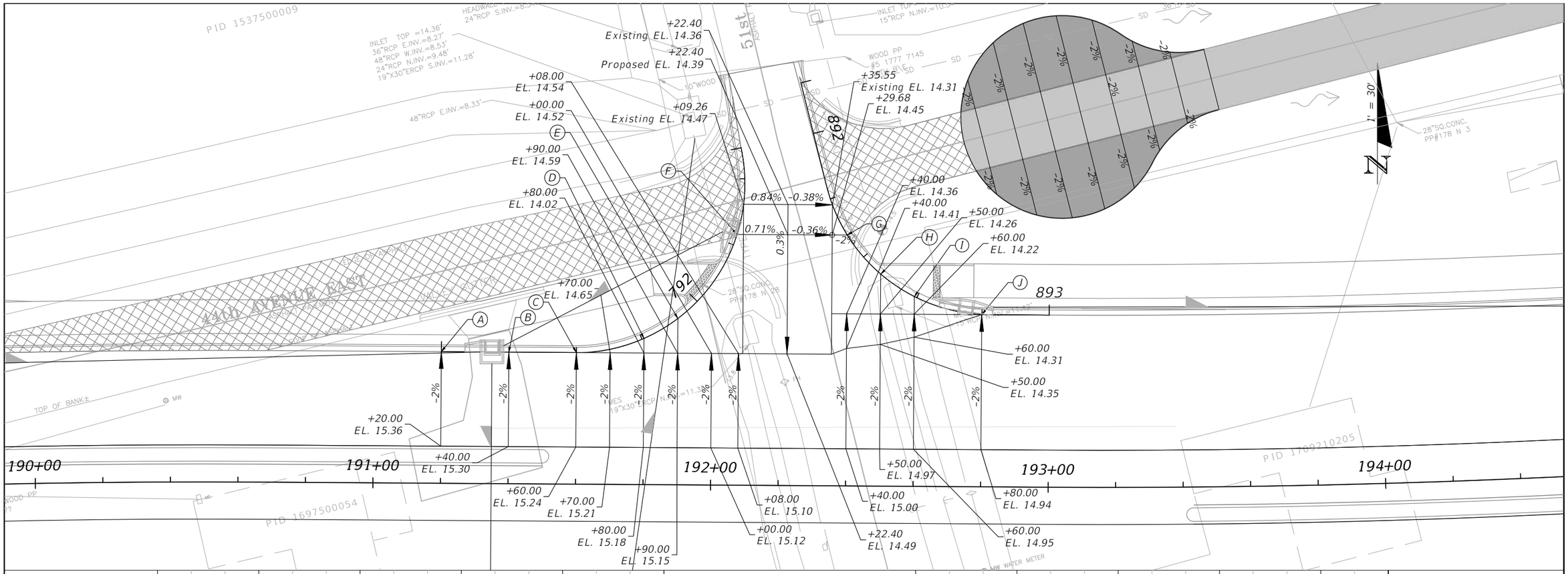
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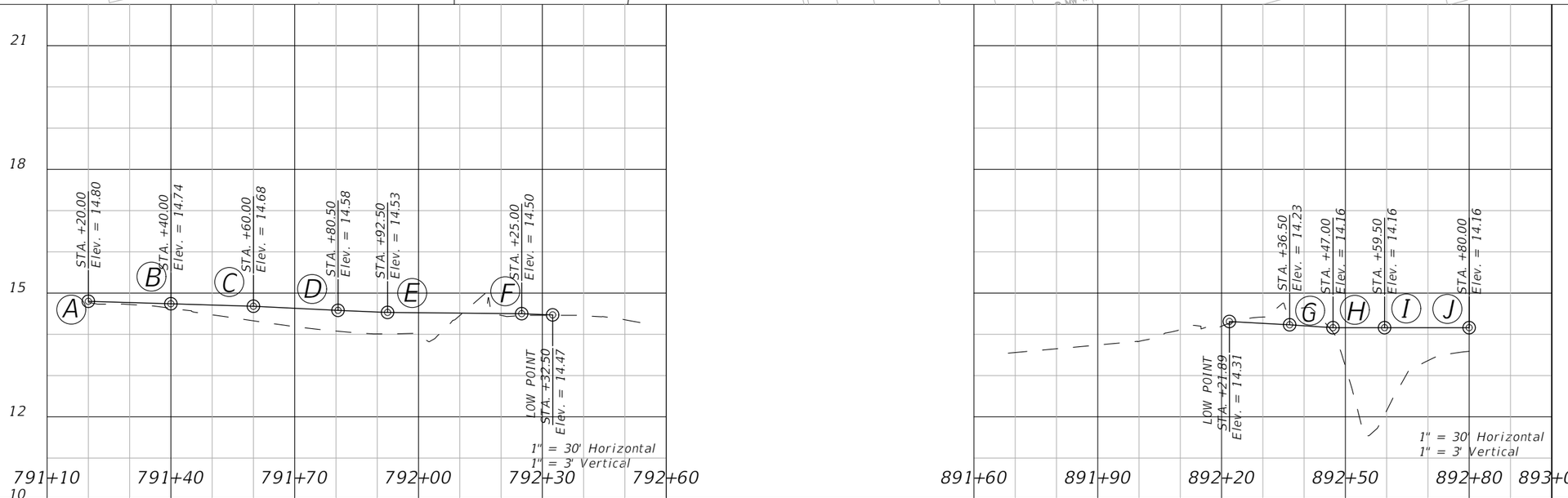
SHEET NO.: 80

Mitch Johnson 2/11/2019 9:55:08 AM

J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

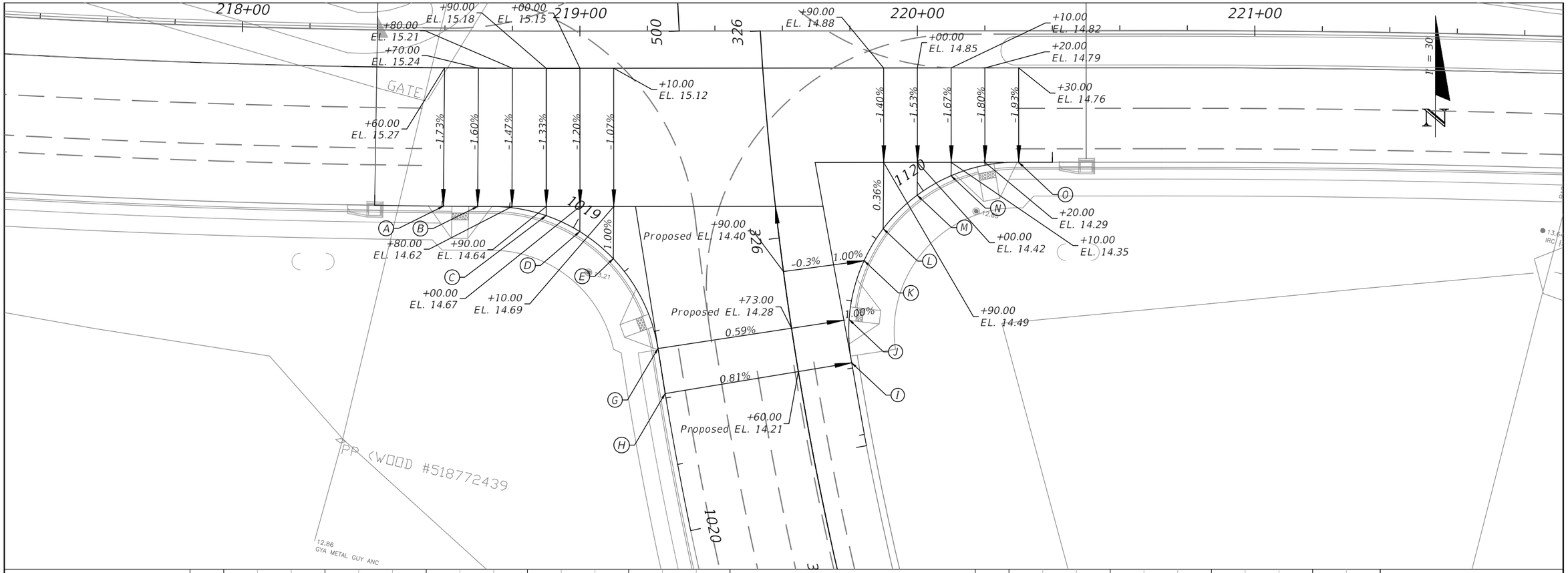
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

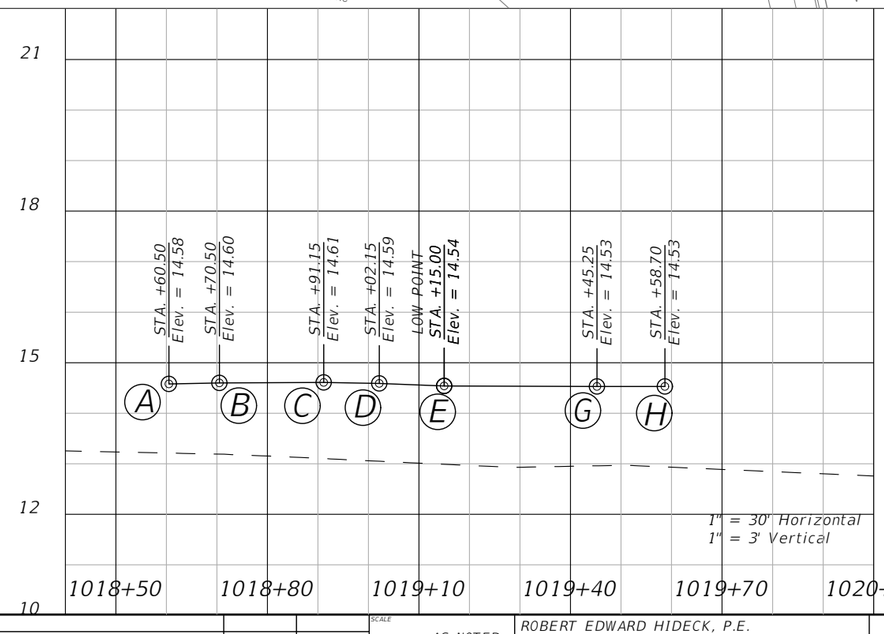
INTERSECTION DETAIL 51ST ST NORTH SIDE

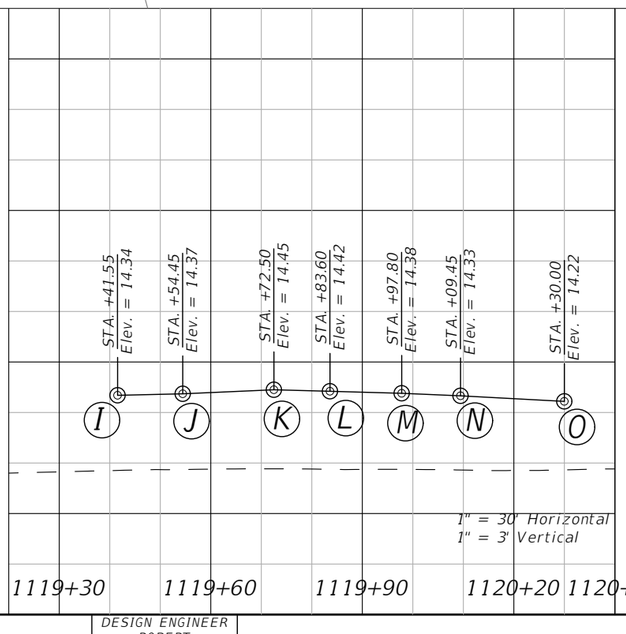
SHEET NO.: 81

Mitch Johnson 2/11/2019 9:55:37 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01_Misc.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

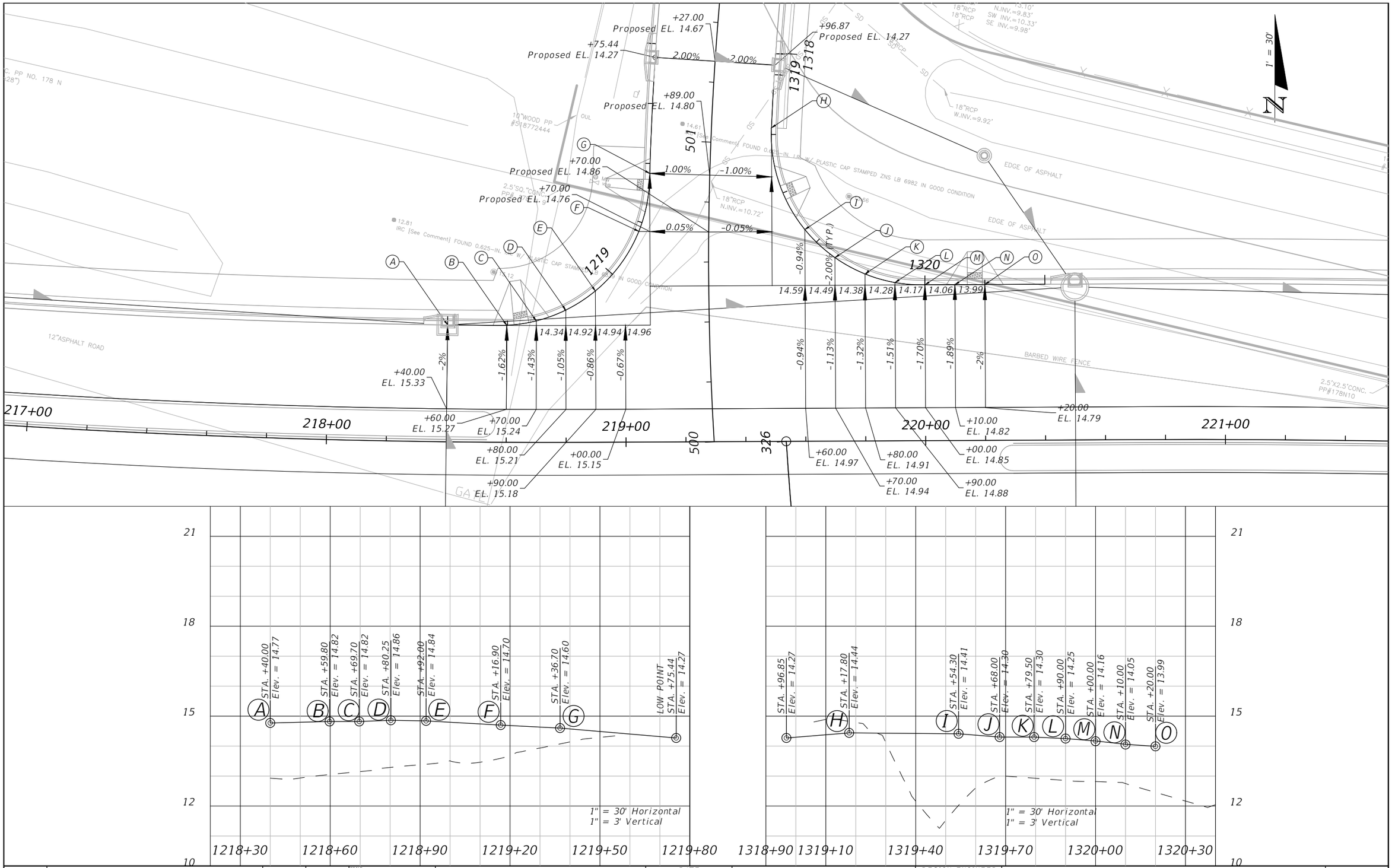
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

INTERSECTION DETAIL CARUSO

SHEET NO.: 82

Mitch Johnson 2/11/2019 9:55:59 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

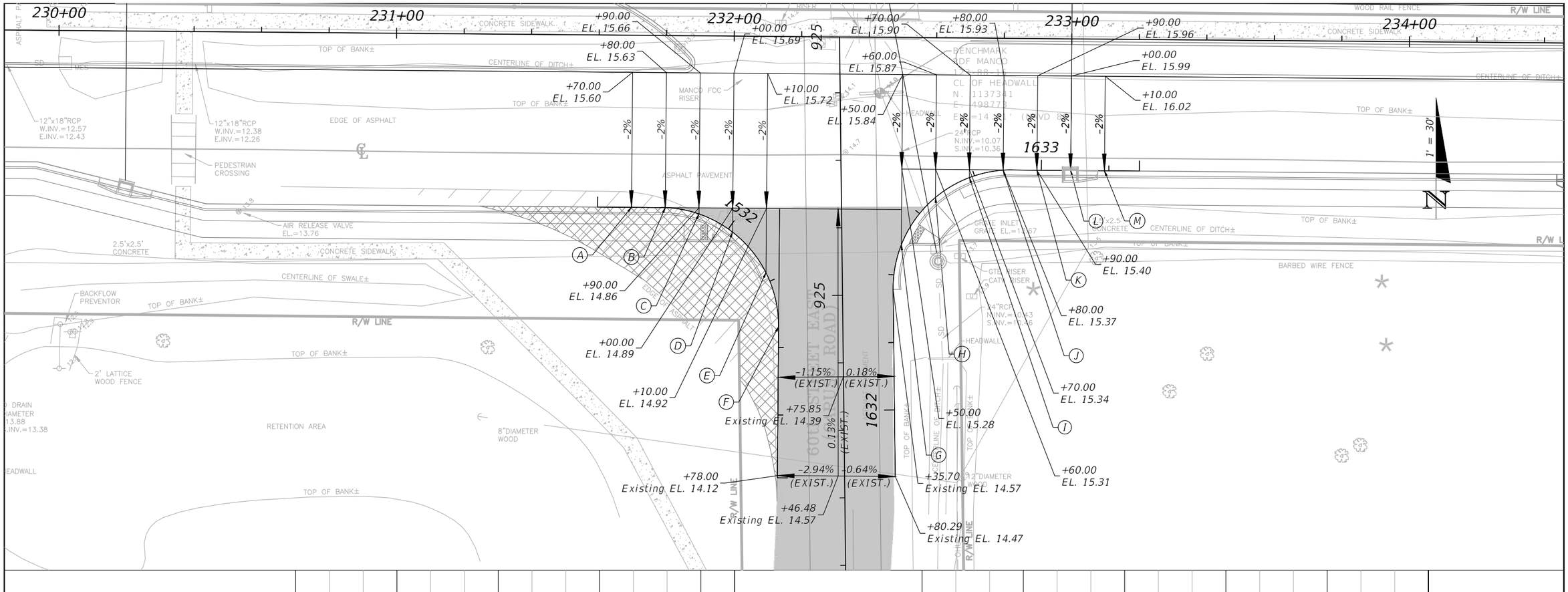
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

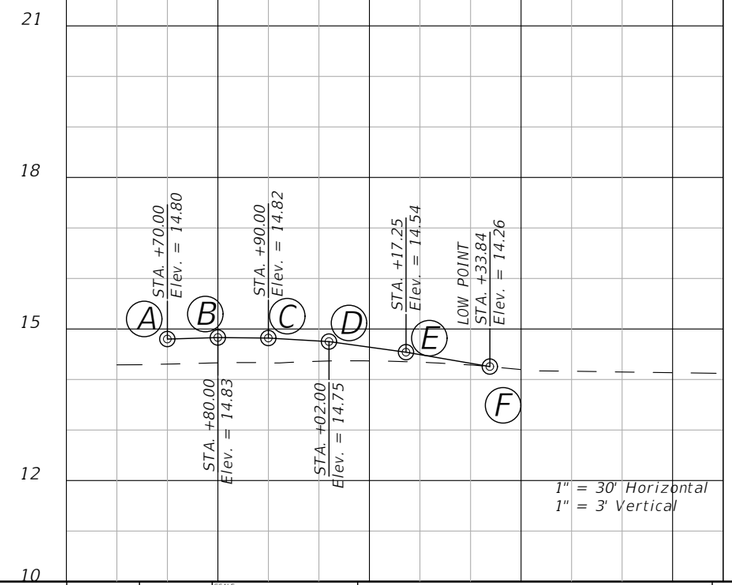
INTERSECTION DETAIL
MORGAN JOHNSON

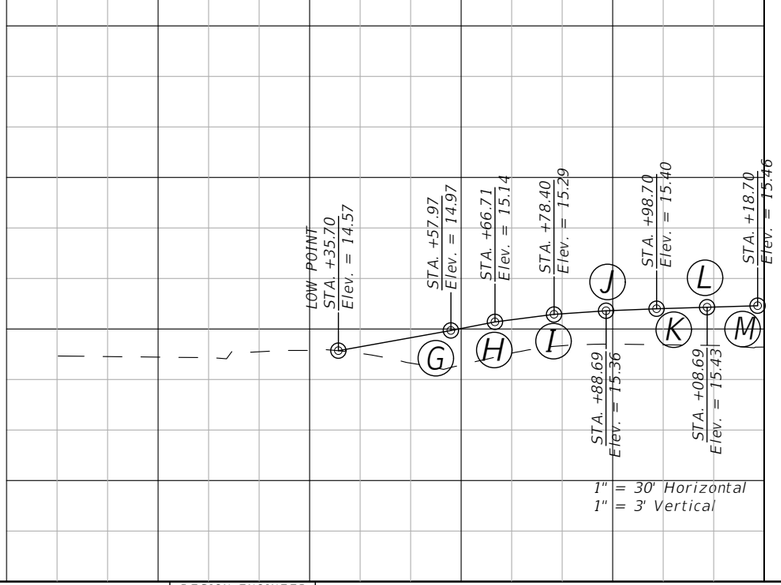
SHEET NO.: 83

Mitch Johnson 2/11/2019 9:56:28 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01_Misc.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

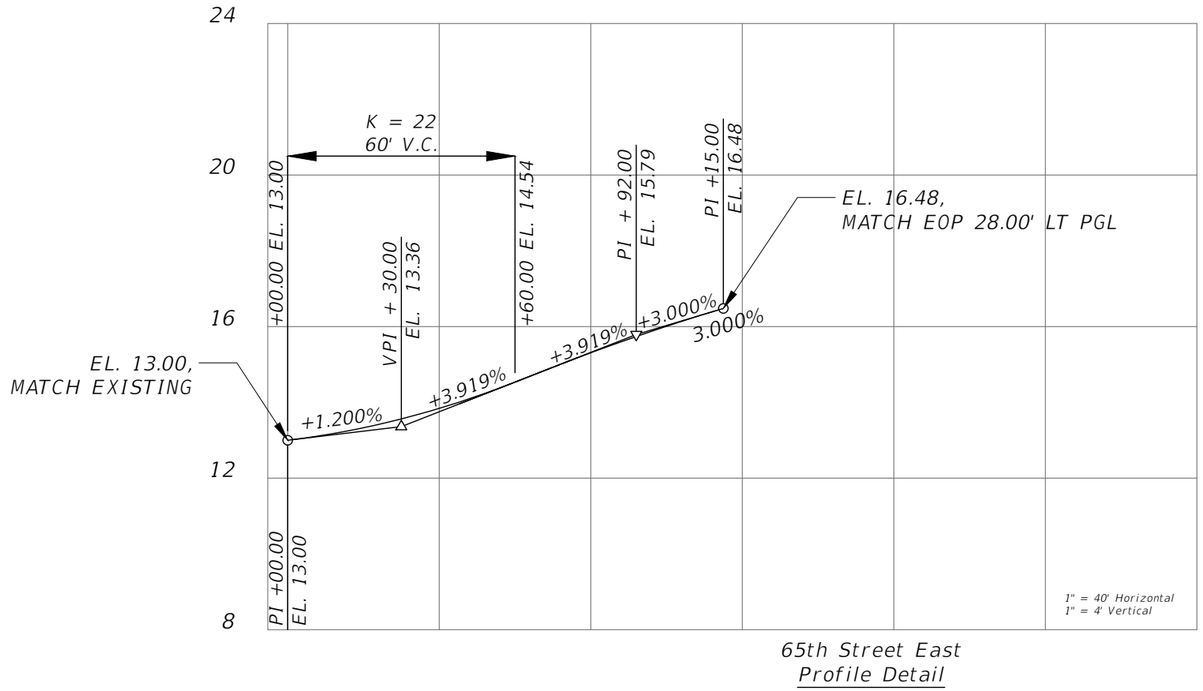
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

INTERSECTION DETAIL OLD CARUSO

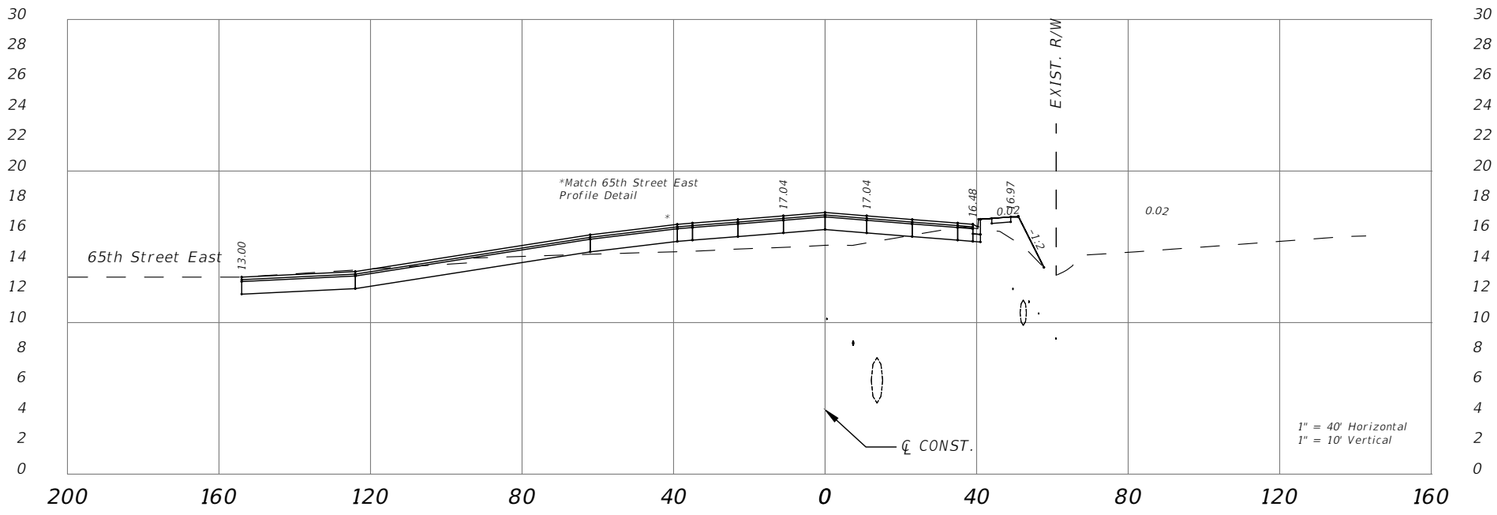
SHEET NO.: 84

Mitch Johnson 2/11/2019 9:56:50 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01_Misc.dwg

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65th Street East
Profile Detail



254+35

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

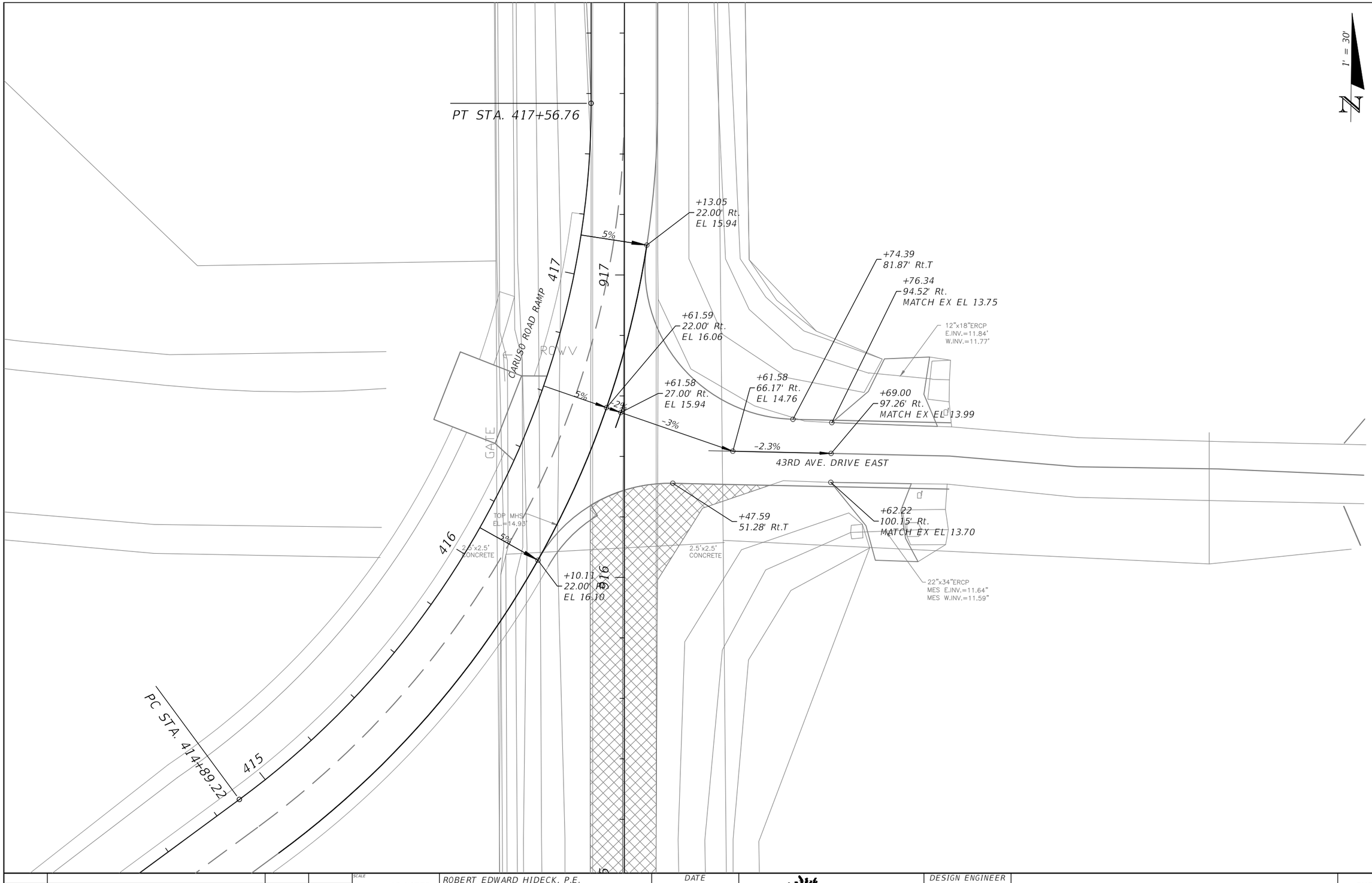
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

INTERSECTION DETAIL
65TH STREET EAST

SHEET NO.
85

Mitch Johnson 2/11/2019 10:00:09 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

INTERSECTION DETAIL CARUSO RD RAMP

SHEET NO.: 86

Mitch Johnson 2/11/2019 10:00:37 AM

J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLPRRD01.dwg

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S-101A

℄ CONST.

STA 167+35.00 (61.24 LT)
CONST. PRECAST TYPE J7
MANHOLE W/ 7' DIA. J BOTTOM
RIM EL. 16.12
FL 10.40 BK
FL 9.45 RT
FL 8.40 LT
INDEX NOs. 200, 201

FROM S-102
34"x53" PIPE

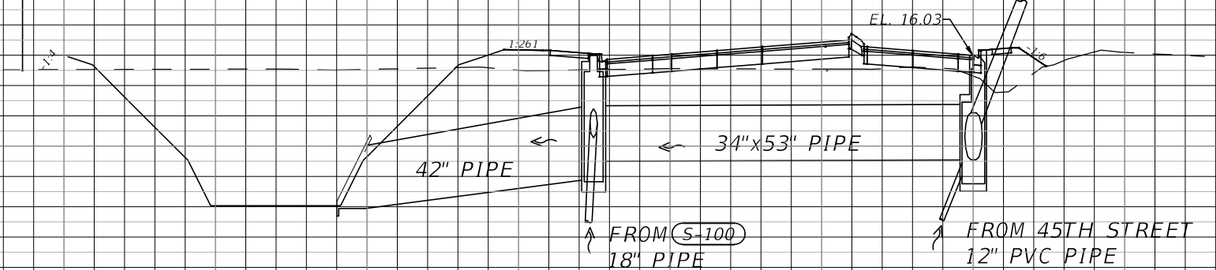
S-101

STA 167+35.00 (39.00 RT)
CONST. CURB INLET TYPE 5 W/
RECTANGULAR STRUCTURE 5'x5'
J-BOTTOM
FL 9.55 AH
FL 9.55 LT
INDEX NOs. 200, 211

S-100A

STA 167+35.00 (124.10 LT)
CONST. CROSS DRAIN MES (1:2)
FL 6.10
INDEX NO. 272

PROP. R/W



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0

200 160 120 80 40 0 40 80

S-101
S-101A
S-100A

167+35.00

S-100

STA 166+75.00 (66.35 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 10.95 AH
INDEX NO. 211

PROP. R/W
EXIST. R/W
EXIST. R/W

TO S-101A
18" PIPE



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0

200 160 120 80 40 0 40 80

S-100

166+75.00

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

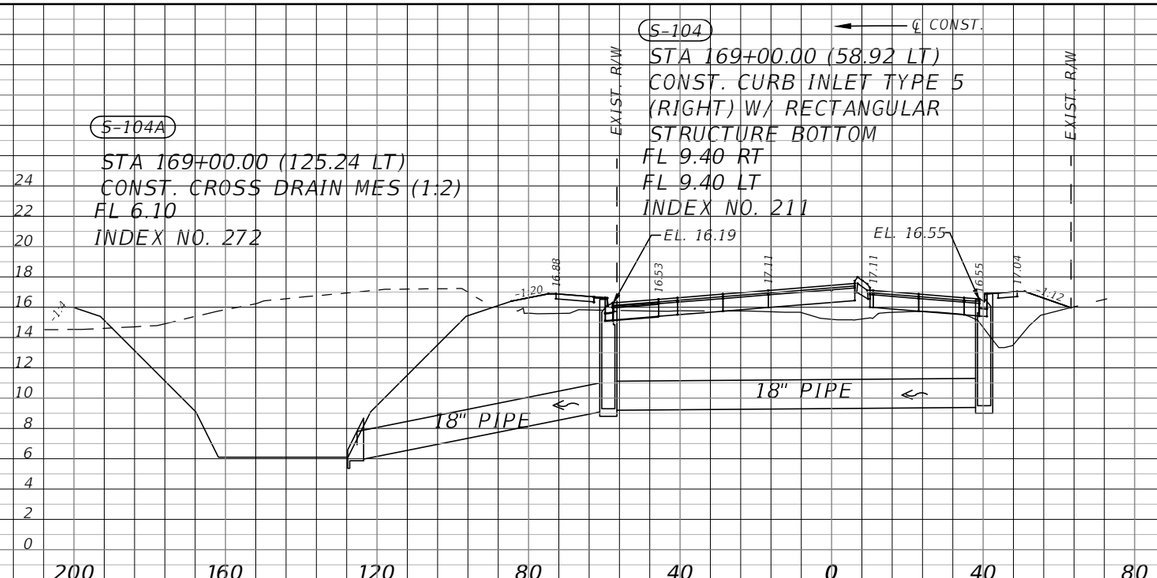
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

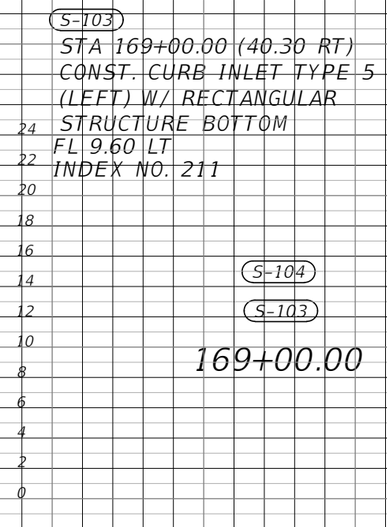
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

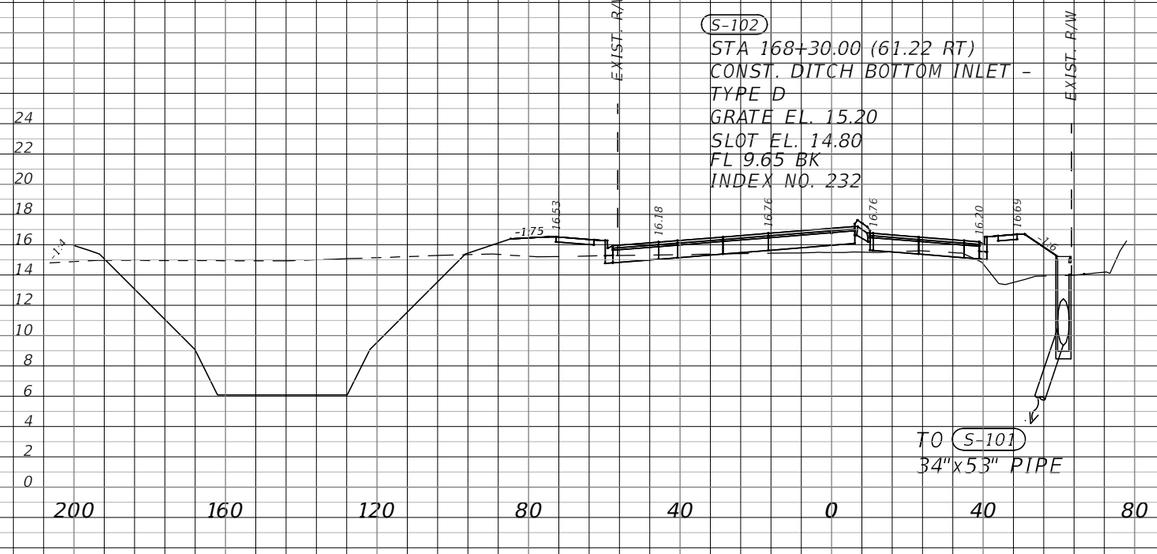
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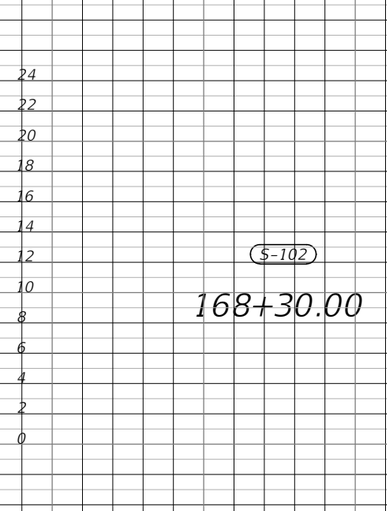
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1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

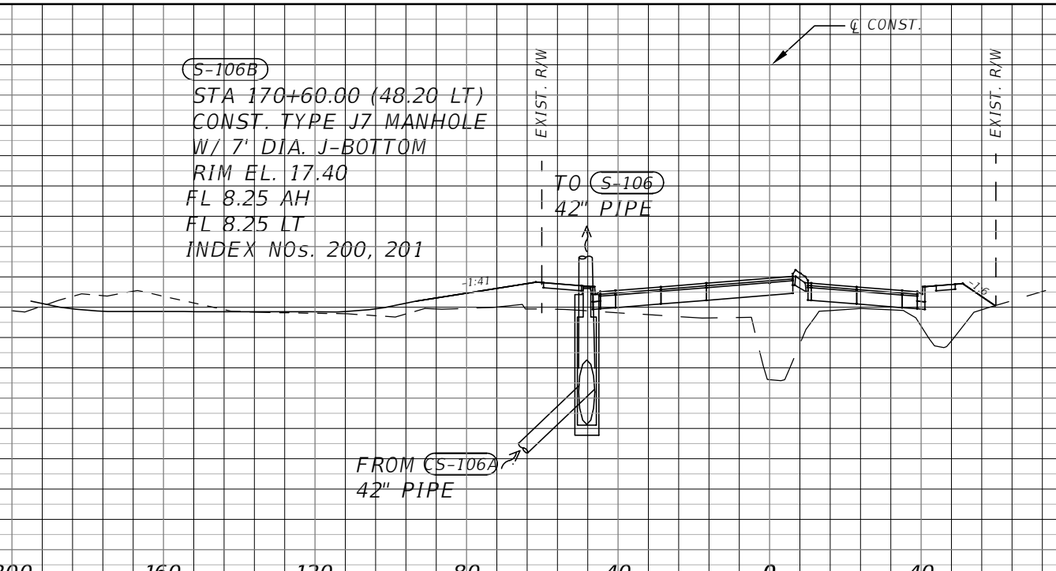
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (02)

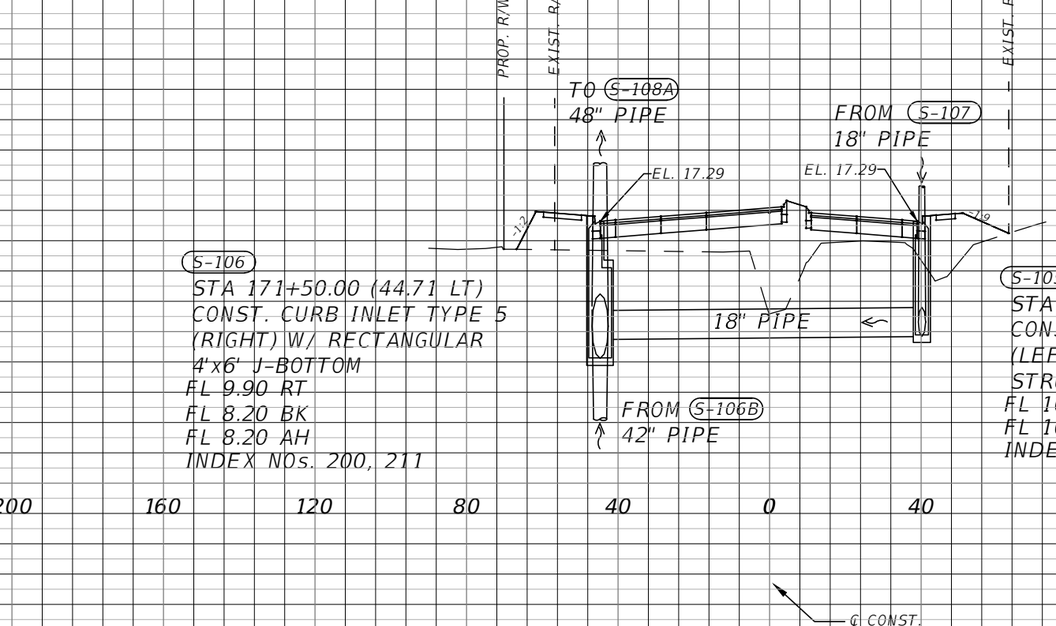
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S-106B

170+60.00



S-105

S-106

171+50.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

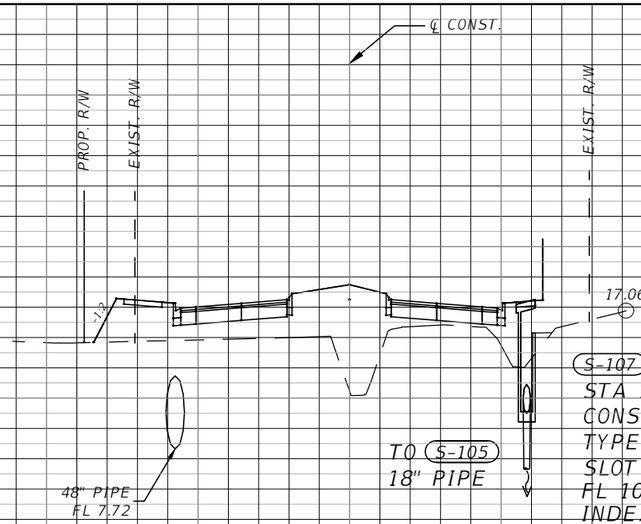
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (03)

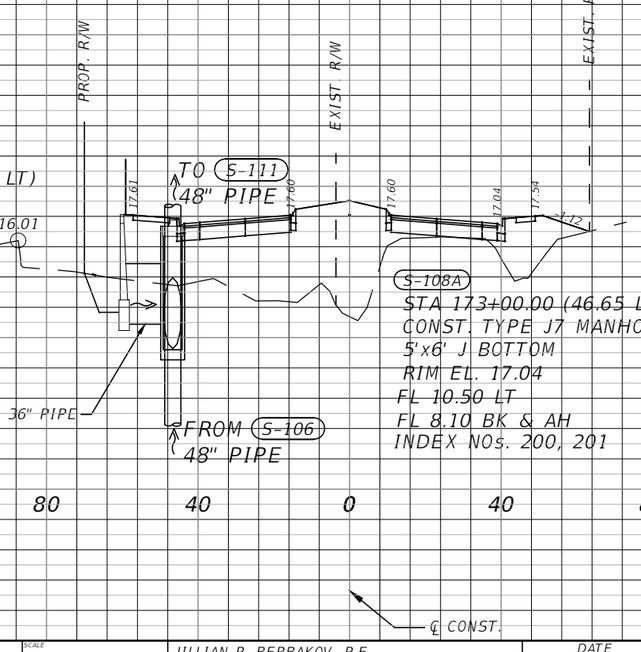
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S-107

172+50.00



S-108A
S-108

173+00.00

1" = 40' Horizontal
1" = 10' Vertical

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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

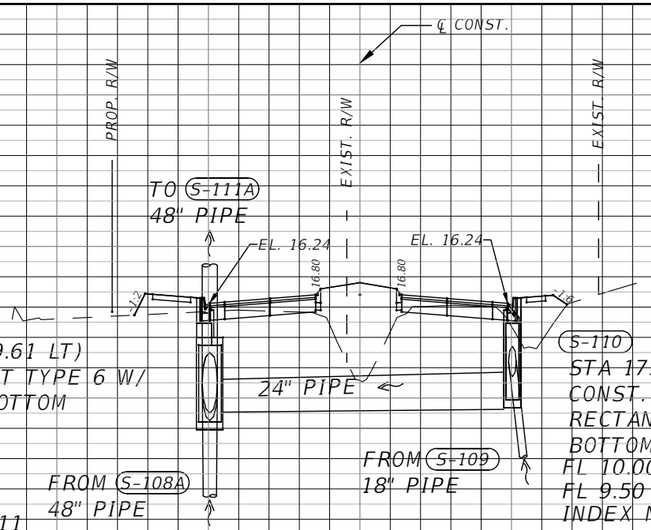
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (04)

SHEET NO.: 90

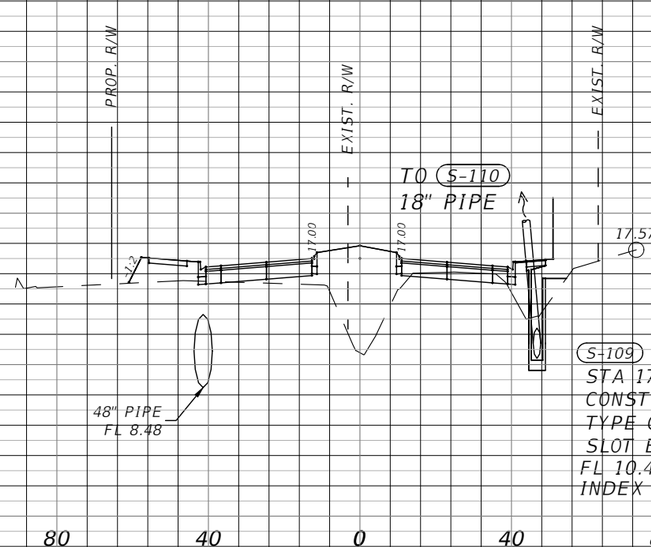
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S-111
STA 175+00.00 (39.61 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR J-BOTTOM
(4.0'x6.0')
FL 9.30 RT
FL 8.00 BK
FL 8.00 AH
INDEX NOs. 200, 211

S-110
STA 175+00.00 (40.26 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 10.00 BK
FL 9.50 LT
INDEX NO. 211

S-111
S-110
175+00.00



S-109
STA 174+50.00 (46.78 RT)
CONST. DITCH BOTTOM INLET -
TYPE C-MOD
SLOT EL. 15.69
FL 10.40 AH
INDEX NO. 282

S-109
174+50.00

1" = 40' Horizontal
1" = 10' Vertical

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JILLIAN P. BERBAKOV, P.E.
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AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

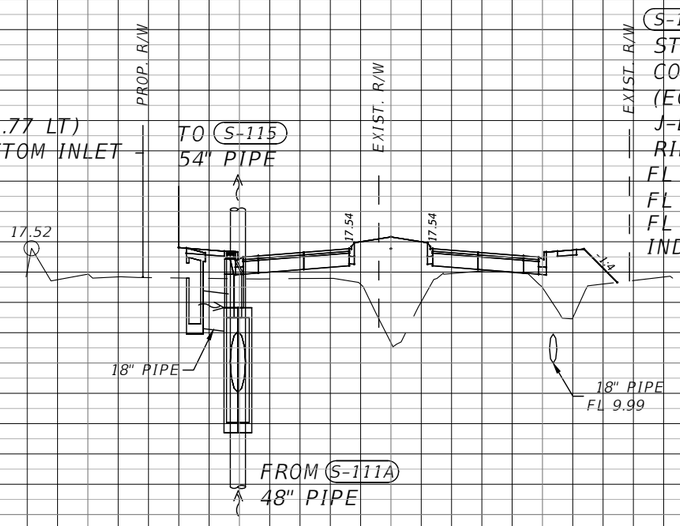
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (05)

SHEET NO.: 91

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2/6/2019 11:53:18 AM
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S-114

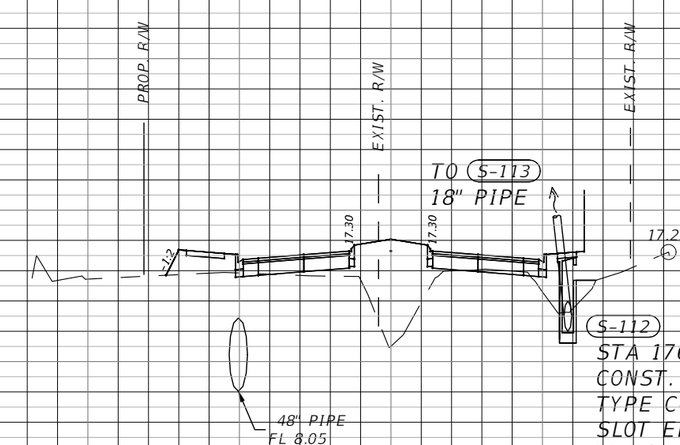
STA 177+55.00 (51.77 LT)
CONST. DITCH BOTTOM INLET – TYPE C-MOD
SLOT EL. 15.61
FL 11.40 RT
INDEX NO. 282

TO S-115
54" PIPE

S-114A

STA 177+55.00 (40.28 LT)
CONST. TYPE J7 MANHOLE
(ECCENTRIC TOP) W/ 4.0'x6.0'
J-BOTTOM
RIM EL. 17.34
FL 7.80 BK
FL 10.90 LT
FL 7.80 AH
INDEX NOs. 200, 201

S-114A
S-114
177+55.00



TO S-113
18" PIPE

S-112

STA 176+65.00 (46.71 RT)
CONST. DITCH BOTTOM INLET – TYPE C-MOD
SLOT EL. 15.37
FL 10.50 AH
INDEX NO. 282

S-112
176+65.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

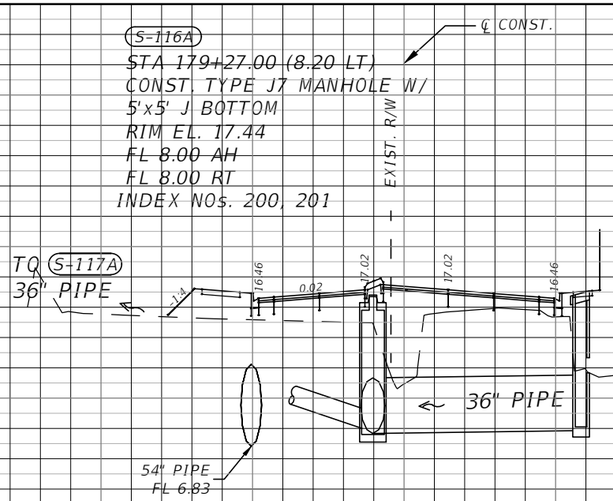
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

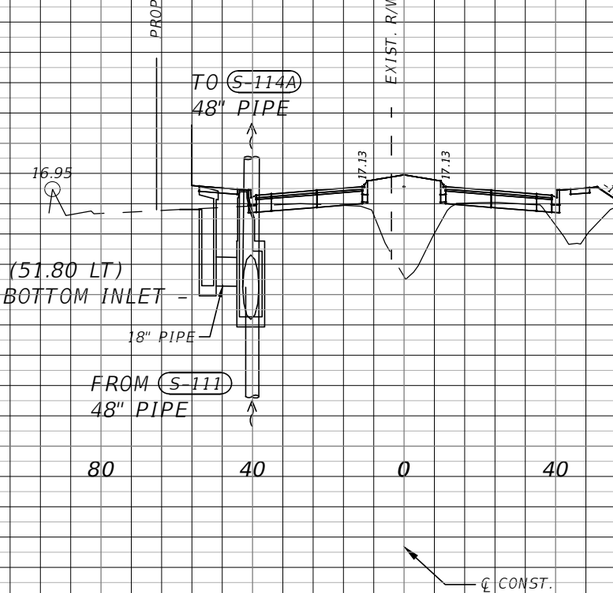
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (06)

SHEET NO.: 92

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2/6/2019 12:07:19 PM
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S-116A
S-116
179+27.00

S-111B
S-111A
176+10.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

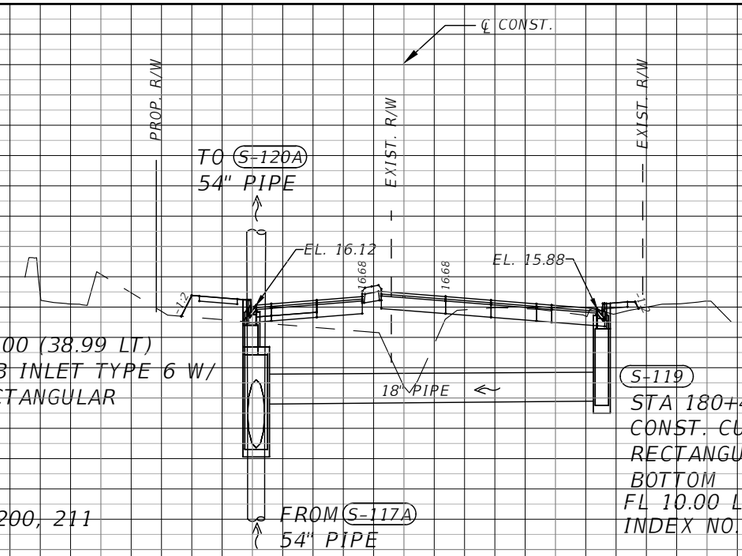
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (07)

SHEET NO.: 93

Floyd, Cindy
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S-118

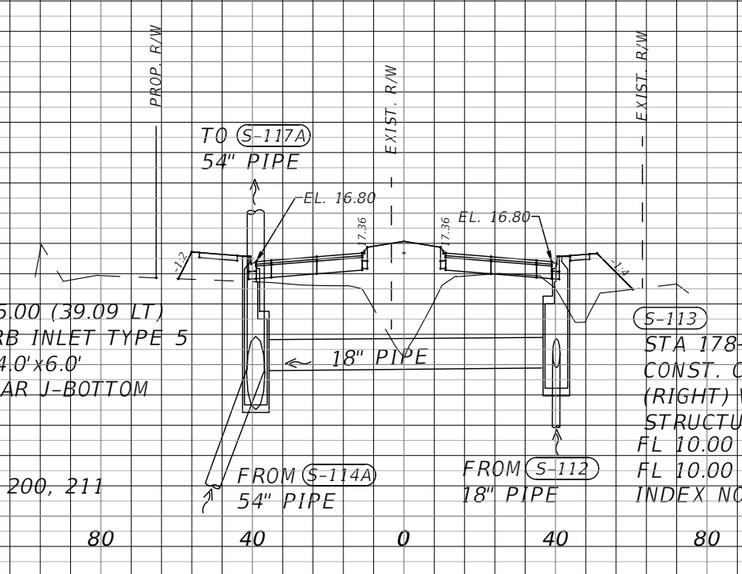
STA 180+40.00 (38.99 LT)
CONST. CURB INLET TYPE 6 W/
4.0'x6.0' RECTANGULAR
J-BOTTOM
FL 9.80 RT
FL 6.80 BK
FL 6.80 AH
INDEX NOs. 200, 211

S-119

STA 180+40.00 (52.26 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 10.00 LT
INDEX NO. 211

S-119
S-118

180+40.00



S-115

STA 178+15.00 (39.09 LT)
CONST. CURB INLET TYPE 5
(LEFT) W/ 4.0'x6.0'
RECTANGULAR J-BOTTOM
FL 9.80 RT
FL 7.70 BK
FL 7.70 AH
INDEX NOs. 200, 211

S-113

STA 178+15.00 (40.26 RT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 10.00 BK
FL 10.00 LT
INDEX NOs. 200, 211

S-115
S-113

178+15.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

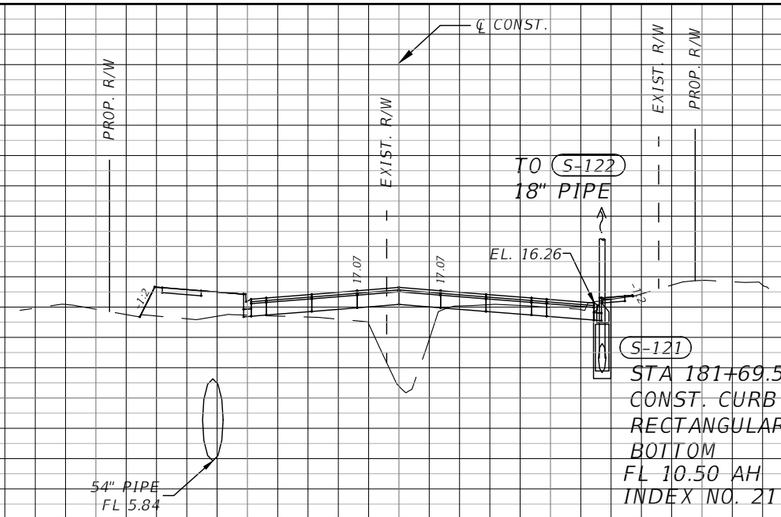
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (08)

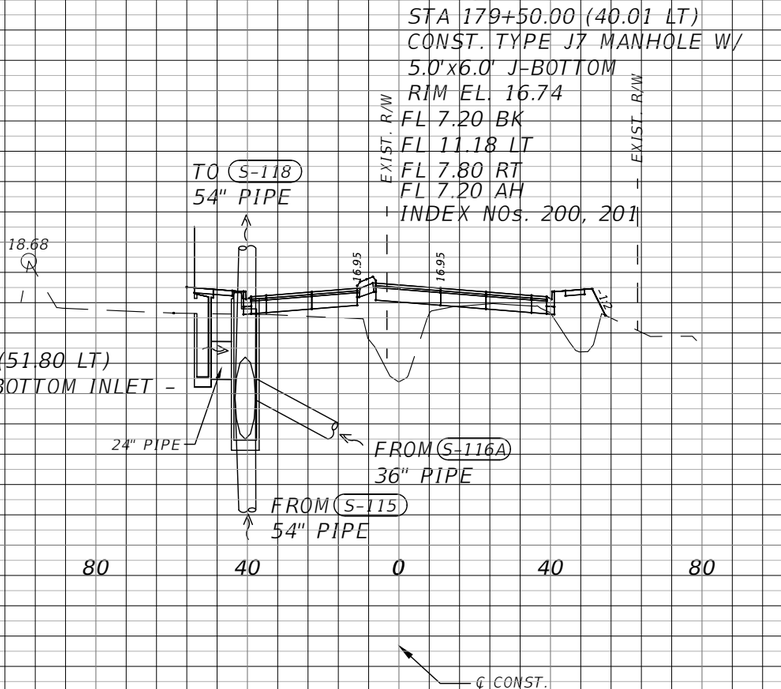
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S-121

181+69.50



S-117A

S-117

179+50.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
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P.E. NO. 86689
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

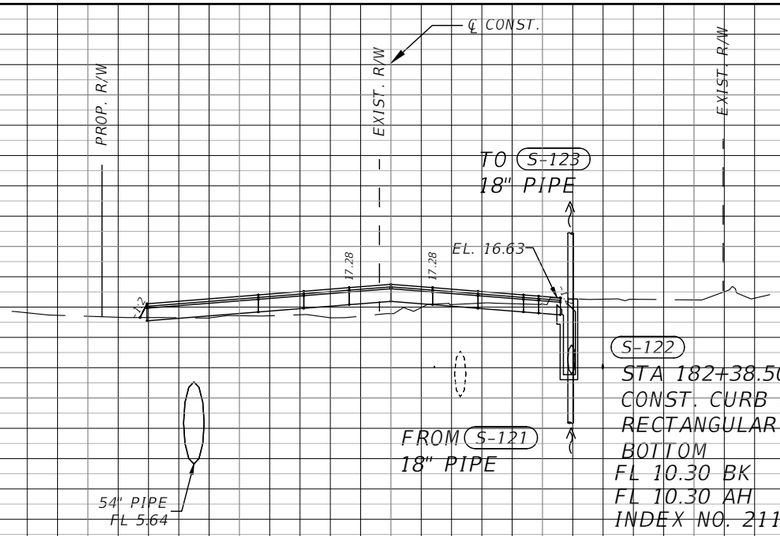
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.

FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (09)

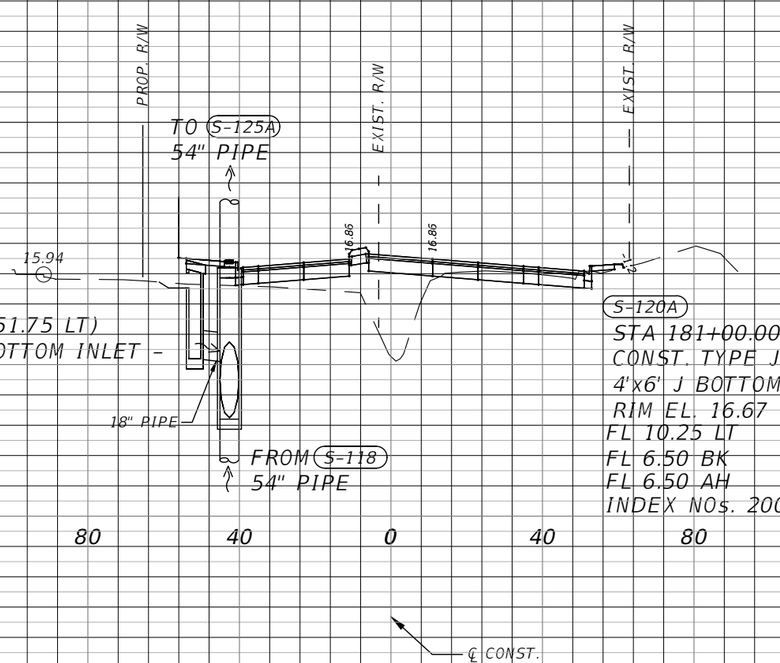
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S-122

182+38.50



S-120A

S-120

181+00.00

1" = 40' Horizontal
1" = 10' Vertical

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P.E. NO. 86689
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TAMPA, FL 33607-1462
(813) 286-1711
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DATE: 02/2019
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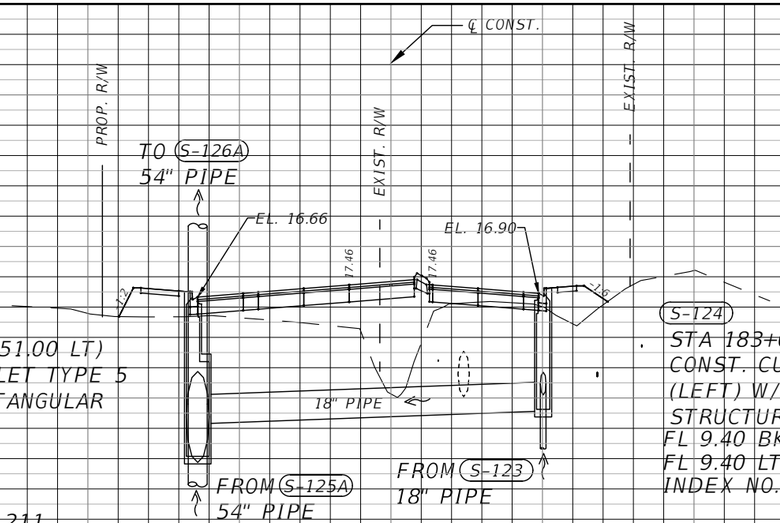
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (10)

SHEET NO.: 96

Floyd, Cindy
2/6/2019 11:55:11 AM
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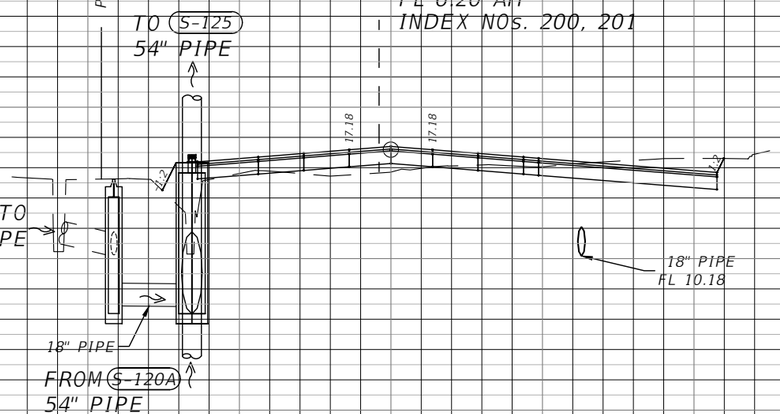
S-125
STA 183+00.00 (51.00 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
4'x6' J-BOTTOM
FL 8.90 RT
FL 5.90 BK
FL 5.90 AH
INDEX NOs. 200, 211

S-124
STA 183+00.00 (40.21 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 9.40 BK
FL 9.40 LT
INDEX NO. 211

S-125
S-124
183+00.00

S-125B
STA 182+07.00 (73.15 LT)
CONST. PRECAST TYPE P7 MH
W/ 3.5' DIA. P BOTTOM
RIM EL. 15.30
FL 10.30 BK (EXISTING)
FL 6.80 RT
INDEX NO. 201

S-125A
STA 182+06.00 (52.52 LT)
CONST. TYPE J7 MANHOLE W/
4'x6' J BOTTOM
RIM EL. 16.84
FL 6.70 LT
FL 6.20 BK
FL 6.20 AH
INDEX NOs. 200, 201



S-125A
182+06.00

S-125B
182+07.00

1" = 40' Horizontal
1" = 10' Vertical

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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
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TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
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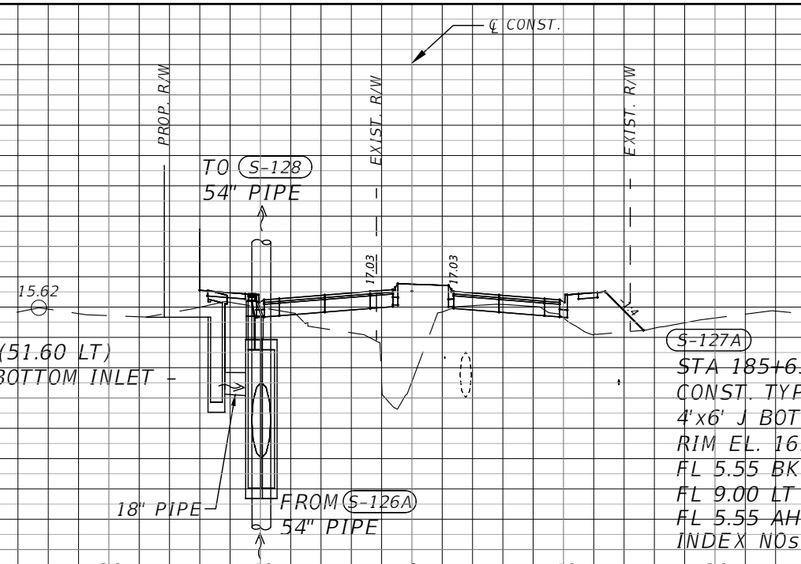
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

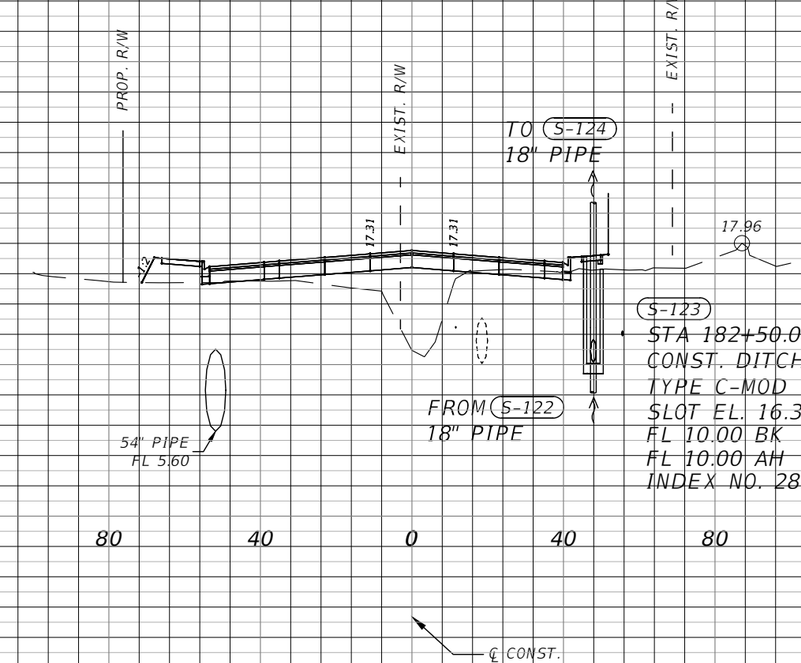
DRAINAGE STRUCTURE SECTIONS (11)

SHEET NO.: 97

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S-127A
S-127
185+65.00



S-123
182+50.00

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

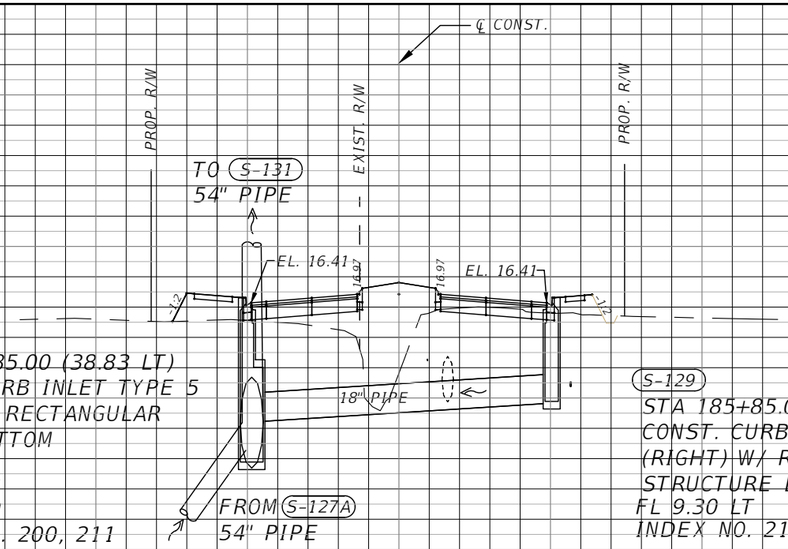
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (12)

SHEET NO.: 98

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S-128

STA 185+85.00 (38.83 LT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
4'x6' J-BOTTOM
FL 8.50 RT
FL 5.50 BK
FL 5.50 AH
INDEX NOs. 200, 211

TO S-131
54" PIPE

FROM S-127A
54" PIPE

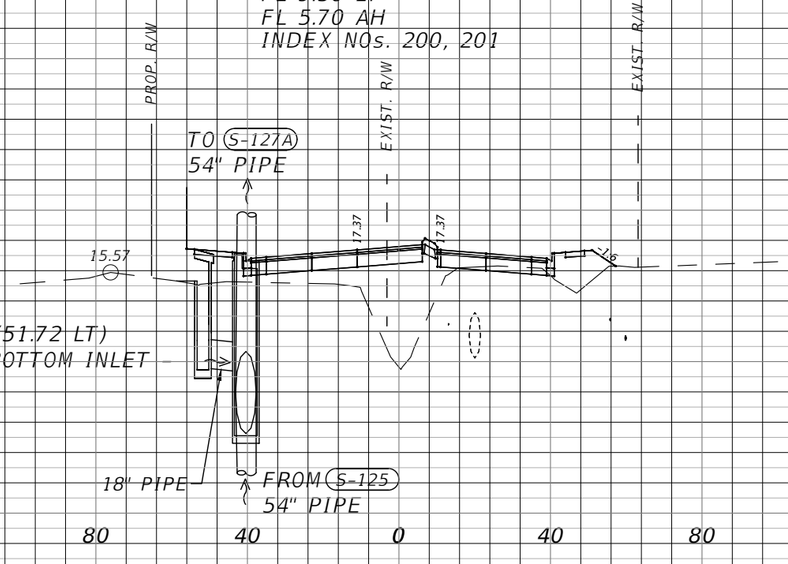
S-129

STA 185+85.00 (40.32 RT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 9.30 LT
INDEX NO. 211

S-129
S-128
185+85.00

S-126A

STA 184+50.00 (40.40 LT)
CONST. TYPE J7 MANHOLE W/
4'x7' J BOTTOM
RIM EL. 17.15
FL 5.70 BK
FL 9.50 LT
FL 5.70 AH
INDEX NOs. 200, 201



S-126

STA 184+50.00 (51.72 LT)
CONST. DITCH BOTTOM INLET
TYPE C-MOD
SLOT EL. 15.00
FL 9.80 RT
INDEX NO. 282

S-126A
S-126
184+50.00

120 80 40 0 40 80 120

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

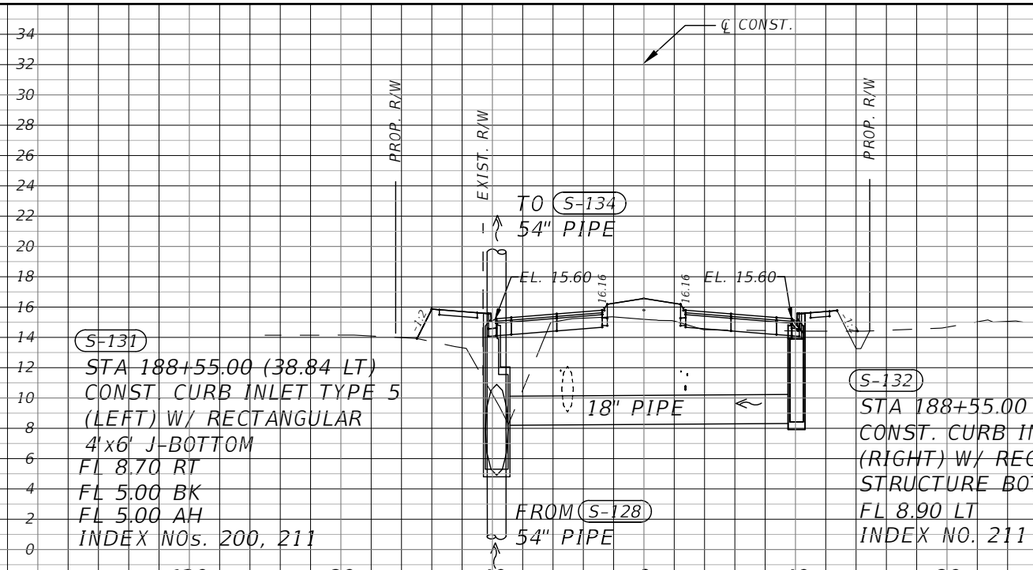
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (13)

SHEET NO.: 99

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2/6/2019 11:56:43 AM
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S-131

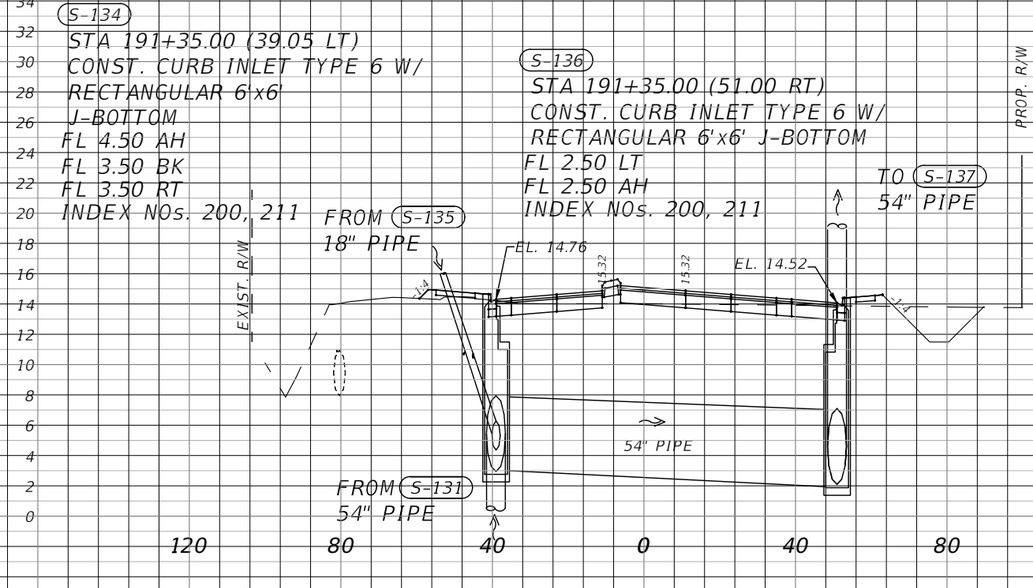
STA 188+55.00 (38.84 LT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
4'x6' J-BOTTOM
FL 8.70 RT
FL 5.00 BK
FL 5.00 AH
INDEX NOs. 200, 211

S-132

STA 188+55.00 (40.31 RT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 8.90 LT
INDEX NO. 211

S-131
S-132

188+55.00



S-134

STA 191+35.00 (39.05 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR 6'x6'
J-BOTTOM
FL 4.50 AH
FL 3.50 BK
FL 3.50 RT
INDEX NOs. 200, 211

S-136

STA 191+35.00 (51.00 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR 6'x6' J-BOTTOM
FL 2.50 LT
FL 2.50 AH
INDEX NOs. 200, 211

S-134
S-136

191+35.00

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

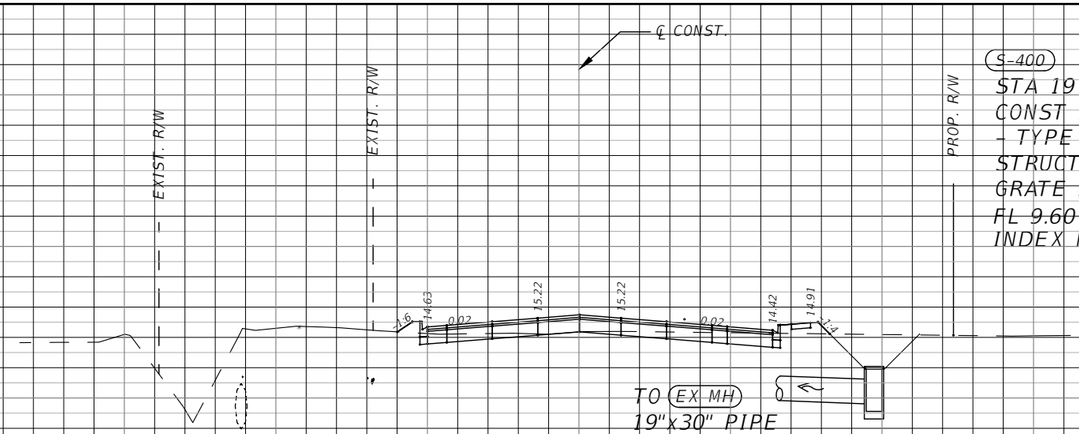
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (14)

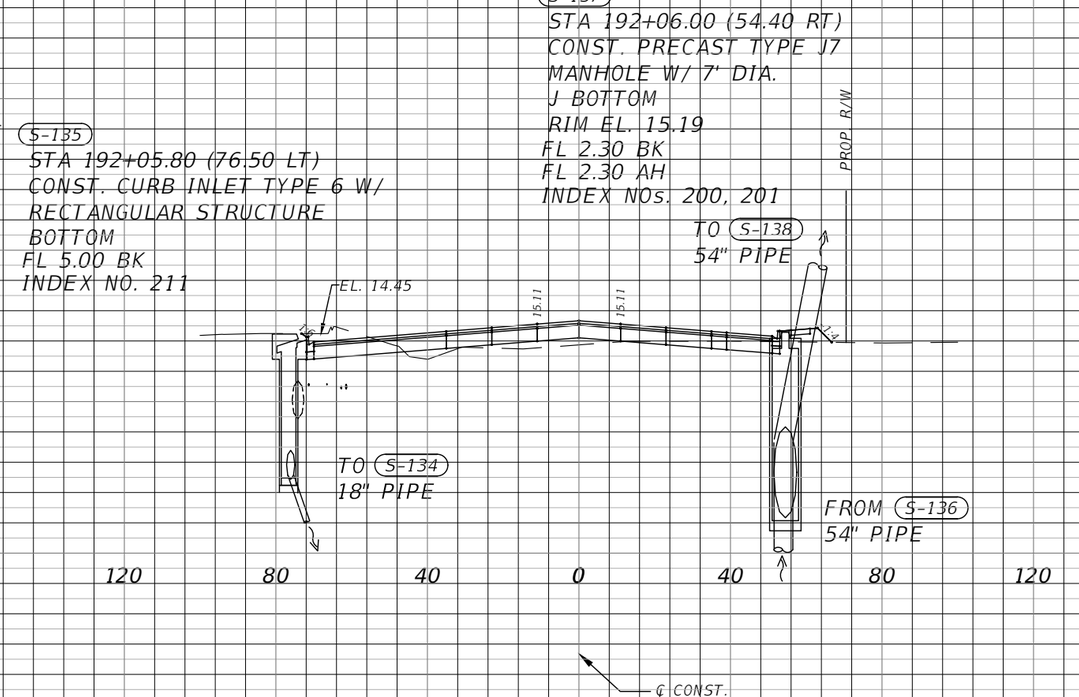
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S-400

191+70.00



S-137

192+06.00

S-135

192+05.80

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1" = 10' Vertical

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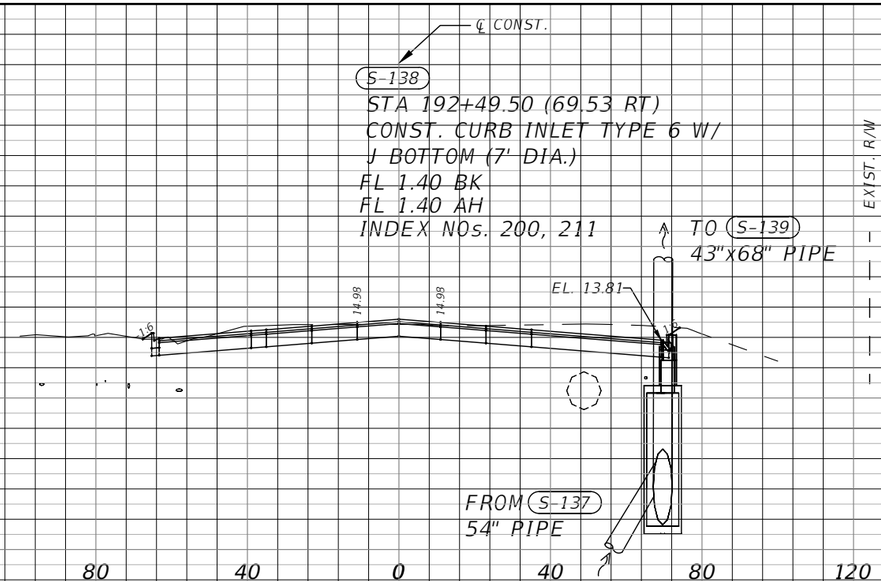
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (15)

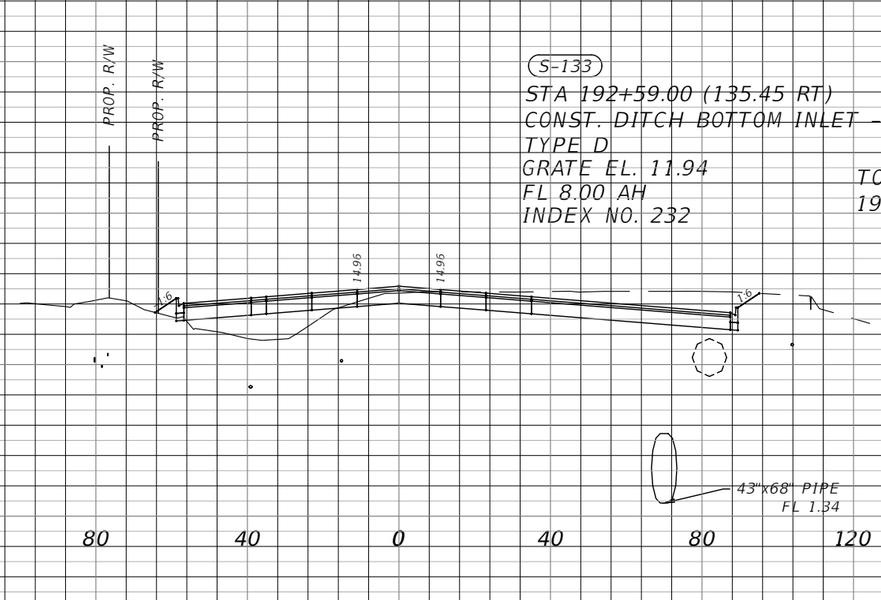
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S-138

192+49.50



S-133

192+59.00

1" = 40' Horizontal
1" = 10' Vertical

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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

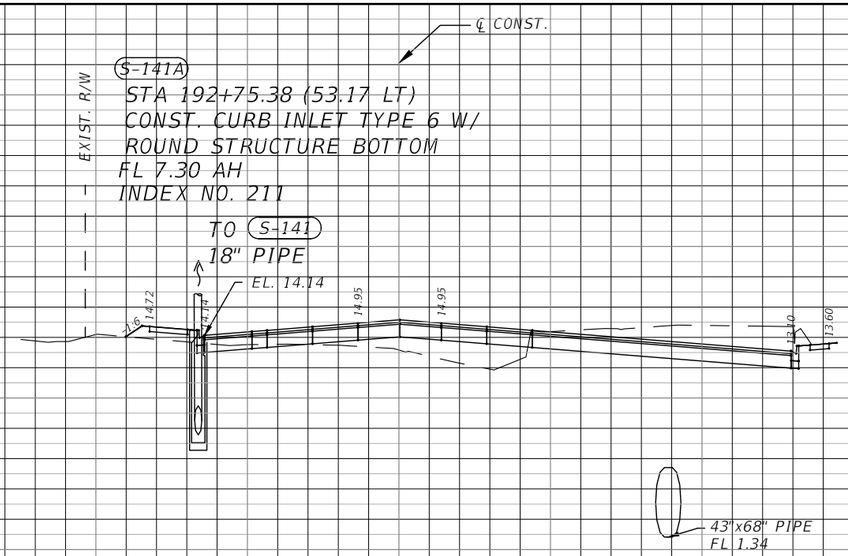
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

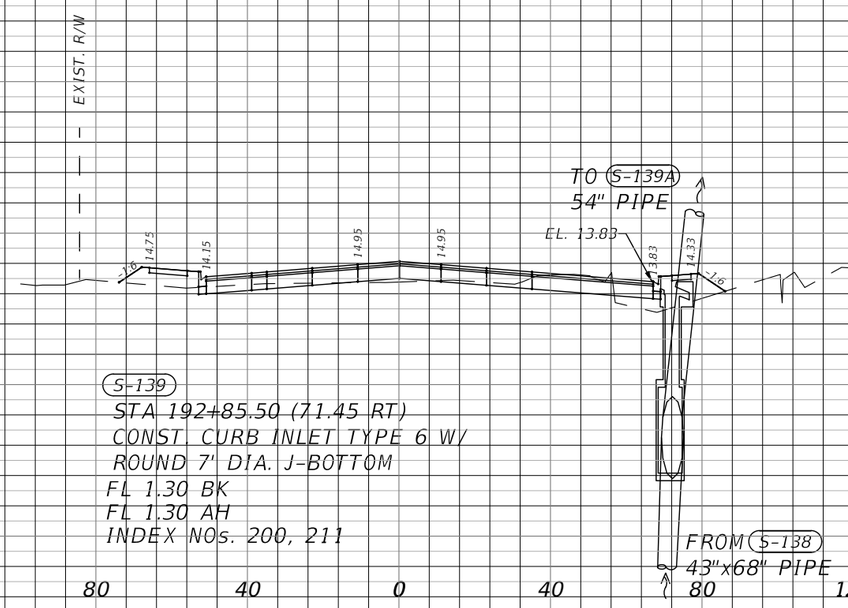
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (16)

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S-141A

192+75.38

S-139

192+87.50

1" = 40' Horizontal
1" = 10' Vertical

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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

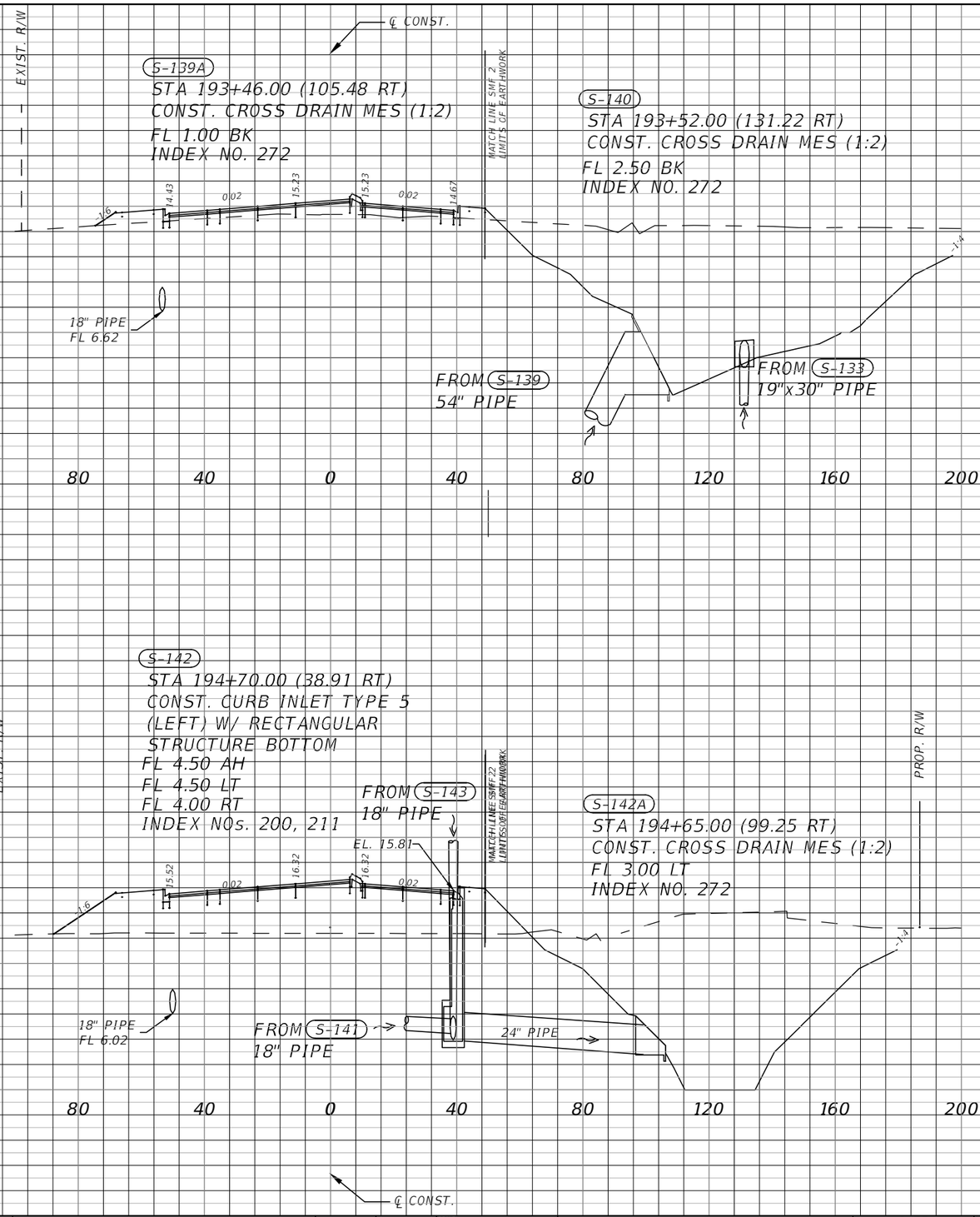
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (17)

SHEET NO.: 103

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S-139A

S-140

193+52.00
193+46.00

S-142

S-142A

194+70.00
194+65.00

1" = 40' Horizontal
1" = 10' Vertical

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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

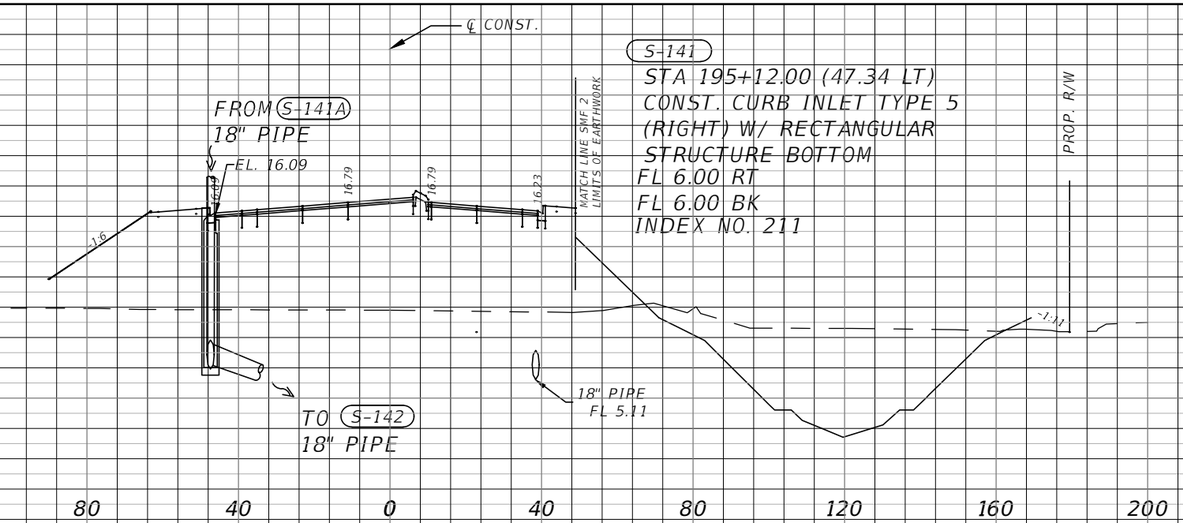
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (18)

SHEET NO.: 104

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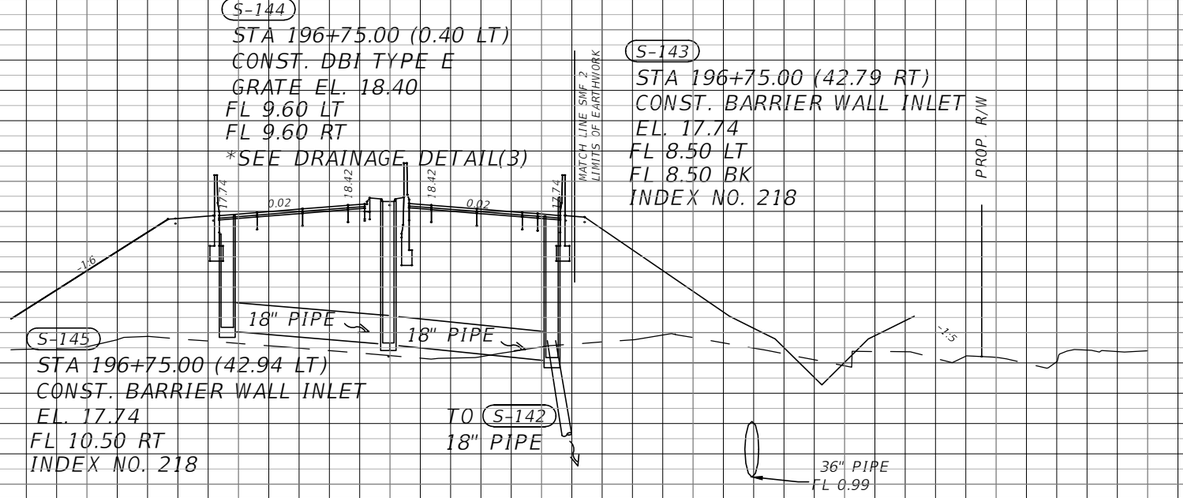


S-141

STA 195+12.00 (47.34 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 6.00 RT
FL 6.00 BK
INDEX NO. 211

S-141

195+12.00



S-145
S-144
S-143

196+75.00

1" = 40' Horizontal
1" = 10' Vertical

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TAMPA, FL 33607-1462
(813) 286-1711
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DATE: 02/2019
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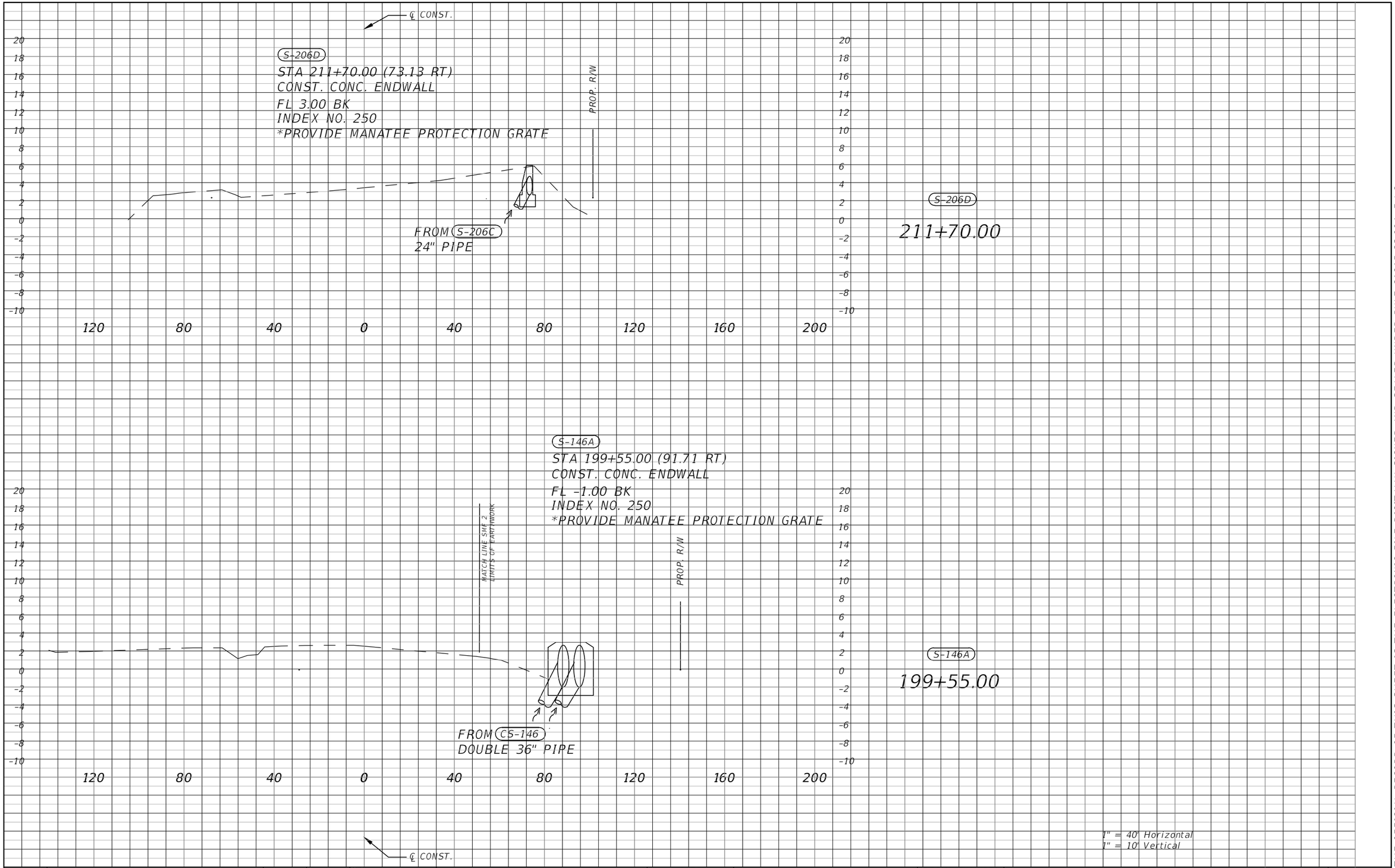
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, Fl. 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (19)

SHEET NO.: 105

Floyd, Cindy
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No.	REVISIONS	DATE	BY

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JILLIAN P. BERBAKOV, P.E.
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TAMPA, FL 33607-1462
(813) 286-1711
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DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

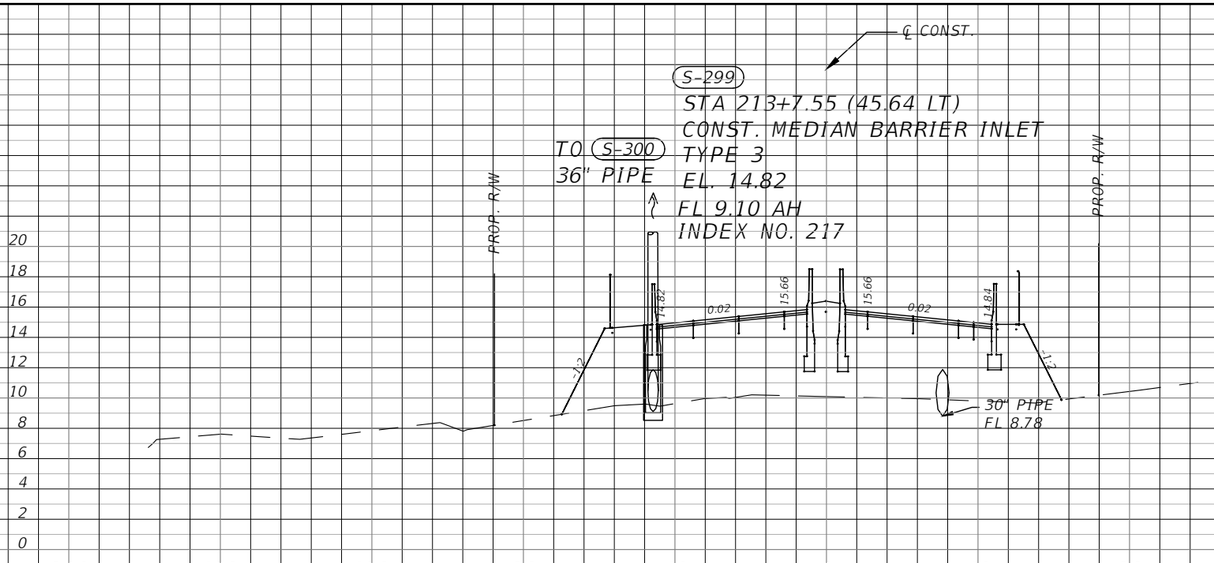
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

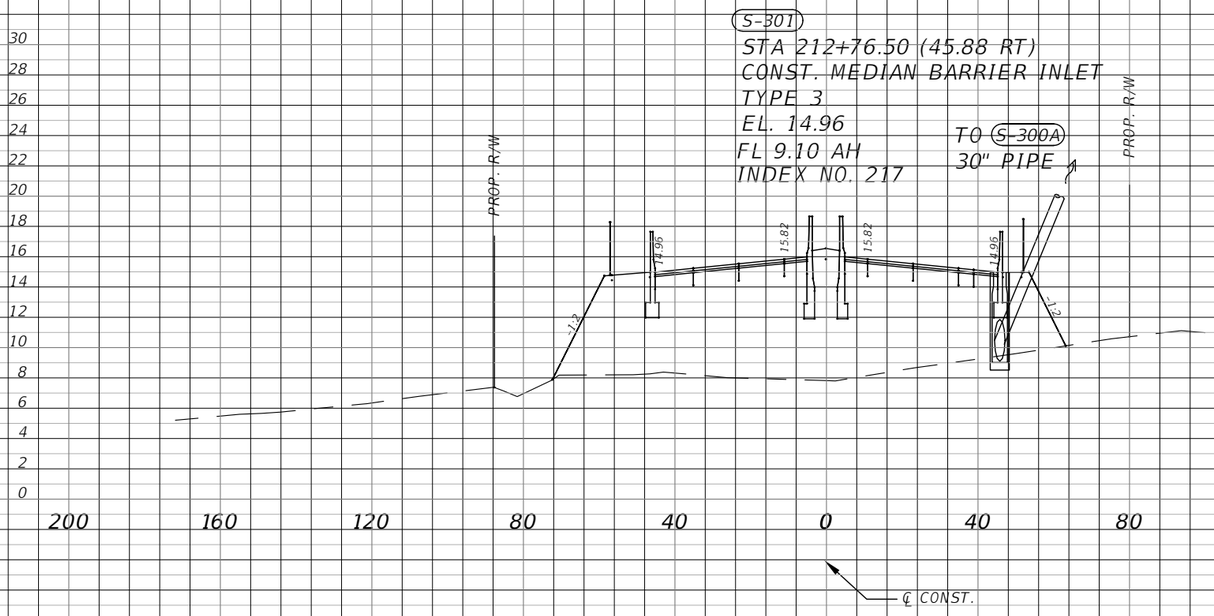
DRAINAGE STRUCTURE SECTIONS (20)

SHEET NO.: 106

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1" = 40' Horizontal
1" = 10' Vertical

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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (21)

SHEET NO.: 107

Floyd, Cindy
2/6/2019 11:59:10 AM
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S-302
STA 215+50.00 (39.04 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
J-BOTTOM (6.0'X6.0')
FL 7.75 BK
FL 9.65 RT
FL 7.25 AH
INDEX NOs. 200, 211

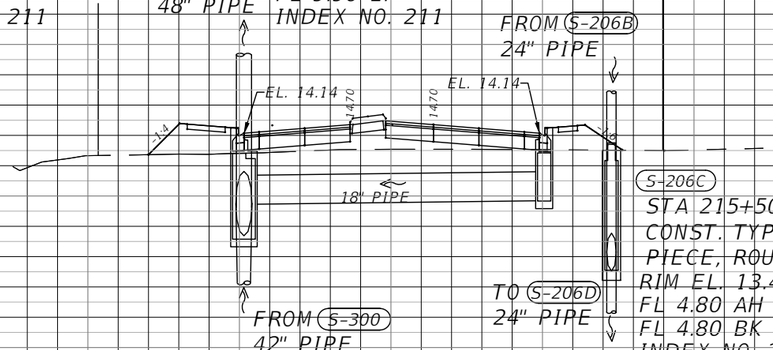
PROP. R/W

℄ CONST.

S-303
STA 215+50.00 (38.96 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 9.90 LT
INDEX NO. 211

TO S-304
48" PIPE

FROM S-206B
24" PIPE



PROP. R/W

S-206C
STA 215+50.00 (57.22 RT)
CONST. TYPE P7 MANHOLE, 2
PIECE, ROUND BOTTOM
RIM EL. 13.47
FL 4.80 AH
FL 4.80 BK
INDEX NO. 201

TO S-206D
24" PIPE

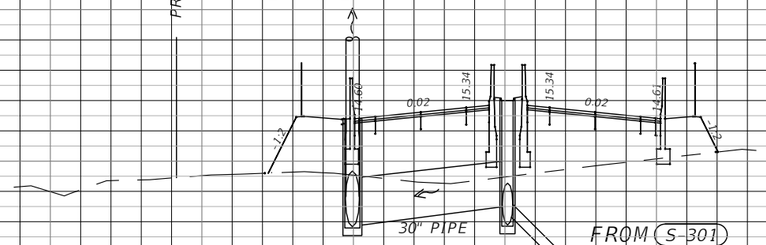
FROM S-300
42" PIPE

120 80 40 0 40 80 120

S-206C
S-303
S-302
215+50.00

PROP. R/W

TO S-302
42" PIPE



PROP. R/W

FROM S-301
30" PIPE

S-300
STA 213+75.00 (41.56 LT)
CONST. MEDIAN BARRIER INLET
TYPE 3
EL. 14.60
FL 7.95 RT
FL 7.95 AH
INDEX NO. 217

S-300A
STA 213+75.00 (0.34 LT)
CONST. DITCH BOTTOM
INLET TYPE E
EL. 16.00
FL 9.00 RT
FL 8.00 LT
INDEX NO. 232
SEE DRAINAGE DETAIL(3)

120 80 40 0 40 80 120

S-300A
S-300
213+75.00

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

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DATE: 02/2019
PROJECT NO.: 6086960

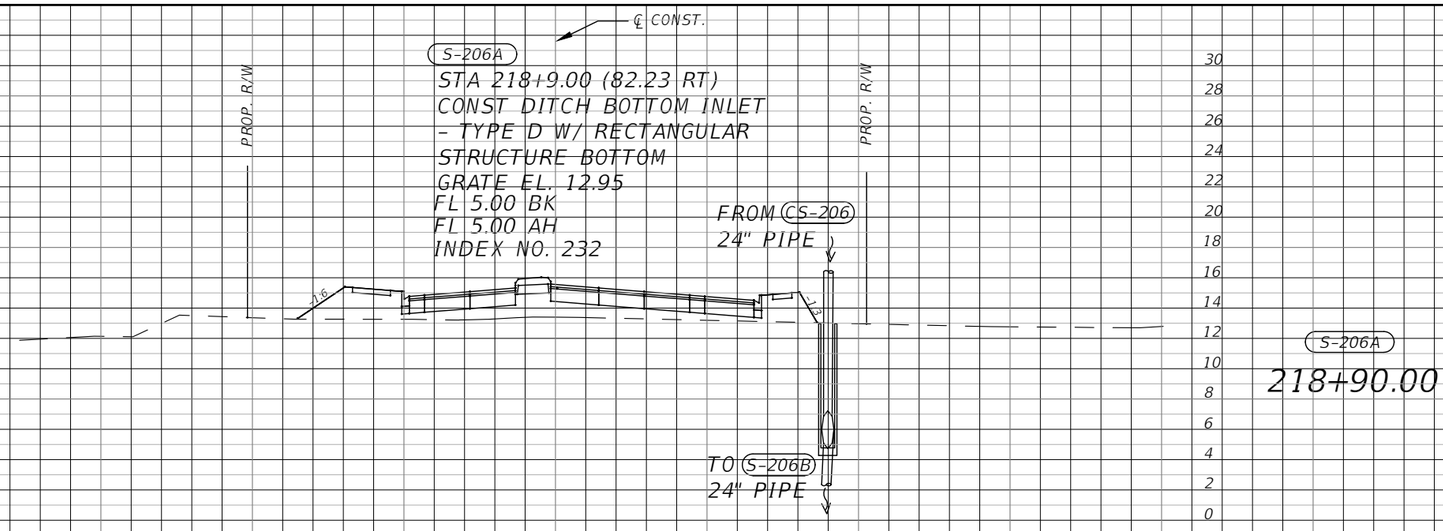
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

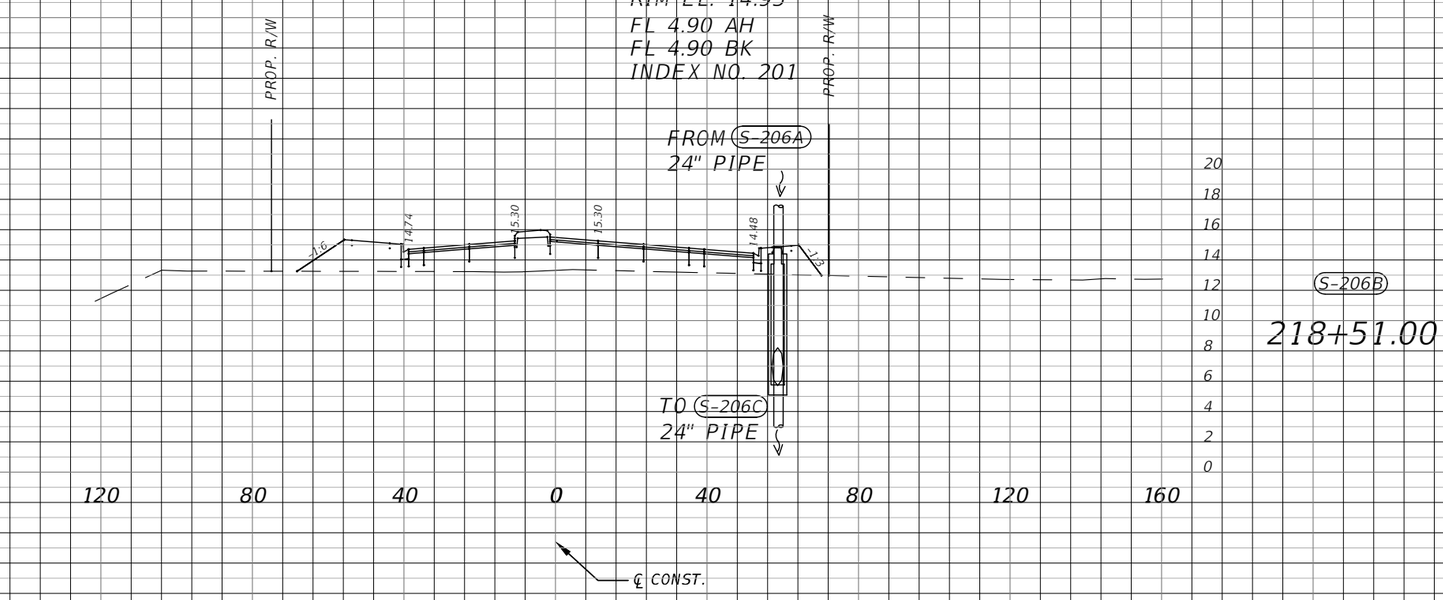
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (22)

SHEET NO.: 108

Floyd, Cindy 2/6/2019 12:08:24 PM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\drainage\DRXSCN01_1_1_9943.dwg





1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

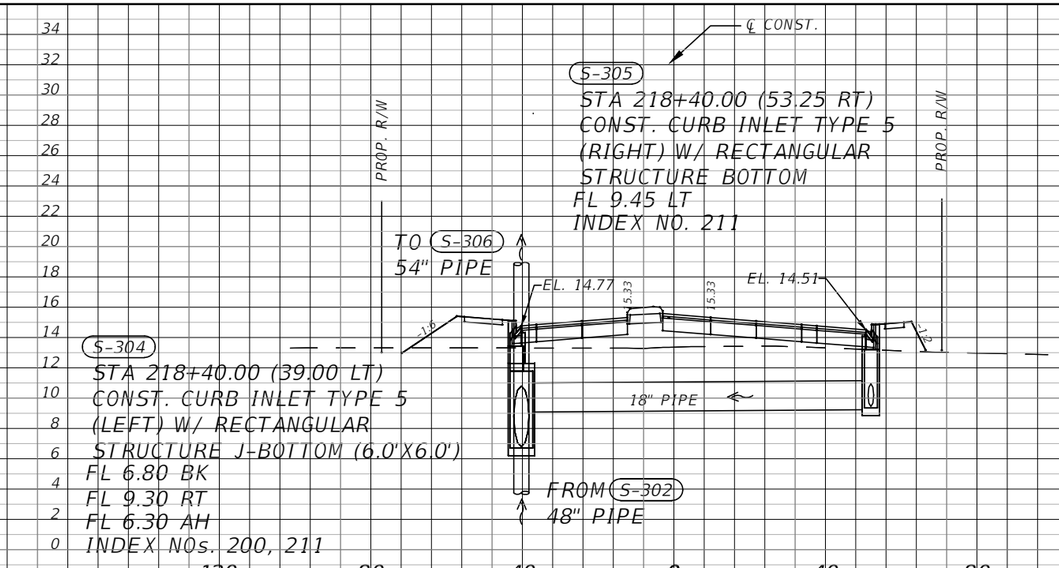
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (23)

SHEET NO.: 109

Floyd, Cindy
2/6/2019 12:07:51 PM
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S-305
STA 218+40.00 (53.25 RT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 9.45 LT
INDEX NO. 211

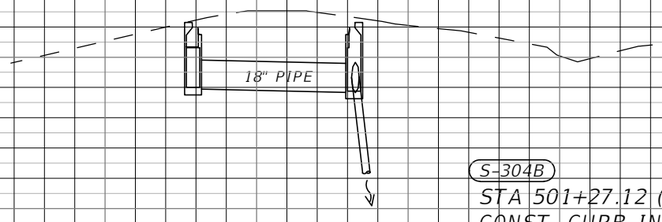
TO S-306
54" PIPE

S-304
STA 218+40.00 (39.00 LT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE J-BOTTOM (6.0'X6.0')
FL 6.80 BK
FL 9.30 RT
FL 6.30 AH
INDEX NOs. 200, 211

FROM S-302
48" PIPE

S-305
S-304
218+40.00

S-304A
STA 501+27.00 (21.26 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 9.85 RT
INDEX NO. 211



TO S-304C
18" PIPE

S-304B
STA 501+27.12 (21.30 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 9.70 LT
FL 9.70 BK
INDEX NO. 211

S-304B
501+27.12
S-304A
501+27.00

℄ CONST. MORGAN JOHNSON

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 12/21/2016
PROJECT NO.: 6086960

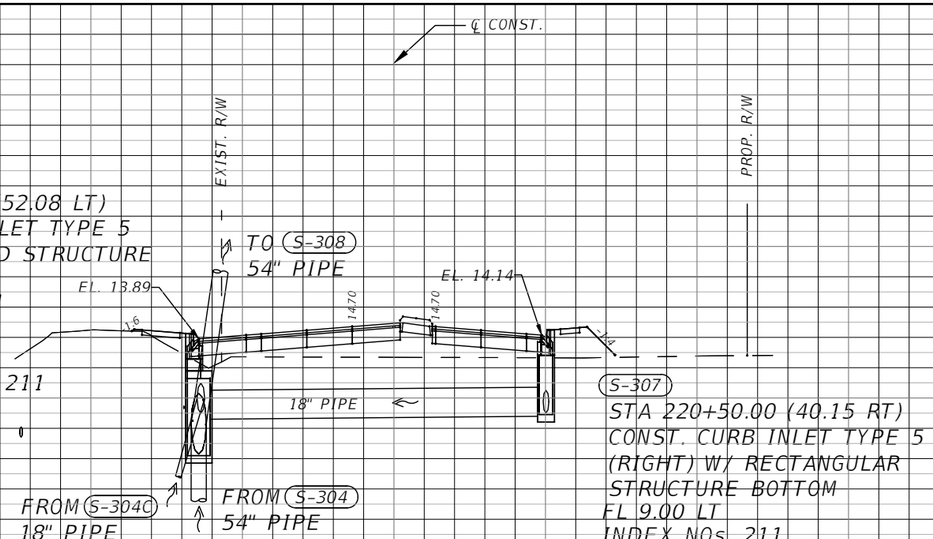
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAM P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (24)

SHEET NO.: 110

Floyd, Cindy 5/23/2019 8:12:46 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\drainage\DRXSCN01_1_1_9943.dwg



S-306

STA 220+50.00 (52.08 LT)
CONST. CURB INLET TYPE 5
(LEFT) W/ ROUND STRUCTURE
J-BOTTOM (8.0')
FL 5.80 BK & AH
FL 8.80 LT
FL 8.80 RT
INDEX NOs. 200, 211

TO S-308
54" PIPE

FROM S-304C
18" PIPE

FROM S-304
54" PIPE

S-307

STA 220+50.00 (40.15 RT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 9.00 LT
INDEX NOs. 211

S-307
S-306
220+50.00

S-304C

STA 220+20.00 (104.00 LT)
CONST. PRECAST TYPE P7 MH
W/ 3.5' DIA. P BOTTOM
RIM EL. 14.10
FL 9.30 BK
FL 9.30 AH
INDEX NO. 200, 201



FROM S-304B
18" PIPE

TO S-306
18" PIPE

42" PIPE
FL 6.54

S-304C
220+20.00

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (25)

SHEET NO.: 111

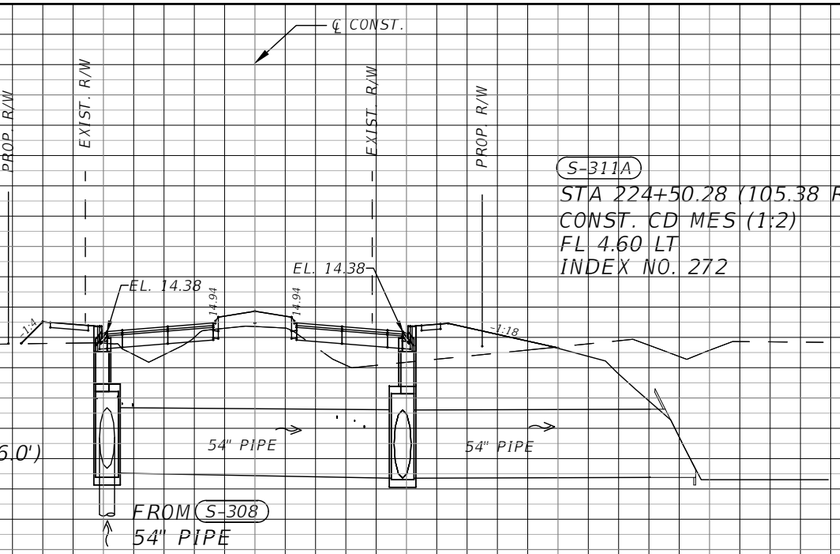
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2/6/2019 12:00:06 PM
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S-311

STA 224+50.00 (39.00 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE J-BOTTOM
(6.0'X6.0')
FL 4.65 LT & RT
INDEX NOs. 200, 211

S-310

STA 224+50.00 (39.03 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE J-BOTTOM (6.0'x6.0')
FL 4.90 BK
FL 4.90 RT
INDEX NOs. 200, 211



S-311A

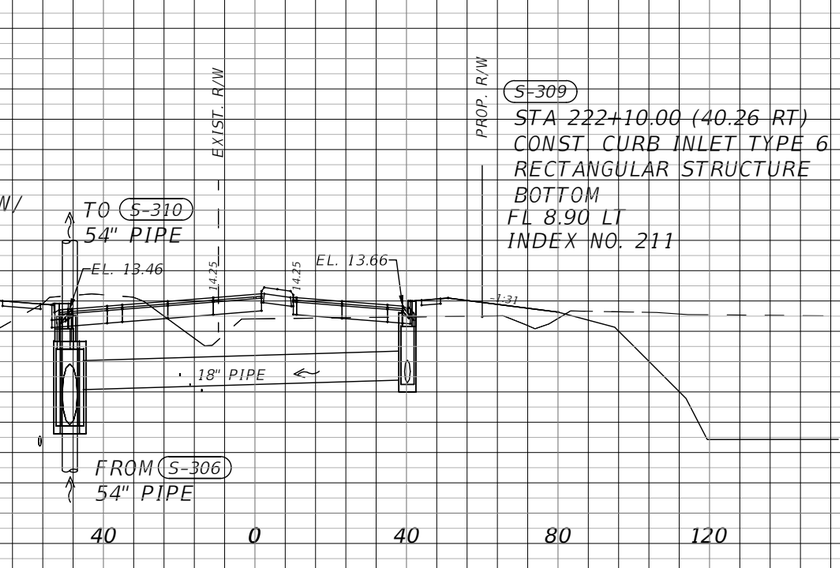
STA 224+50.28 (105.38 RT)
CONST. CD MES (1:2)
FL 4.60 LT
INDEX NO. 272

S-311A
S-311
S-310

224+50.00

S-308

STA 222+10.00 (48.84 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
J-BOTTOM (6.0'X6.0')
FL 5.20 BK
FL 8.30 RT
FL 5.20 AH
INDEX NOs. 200, 211



S-309

STA 222+10.00 (40.26 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 8.90 LT
INDEX NO. 211

S-309
S-308

222+10.00

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

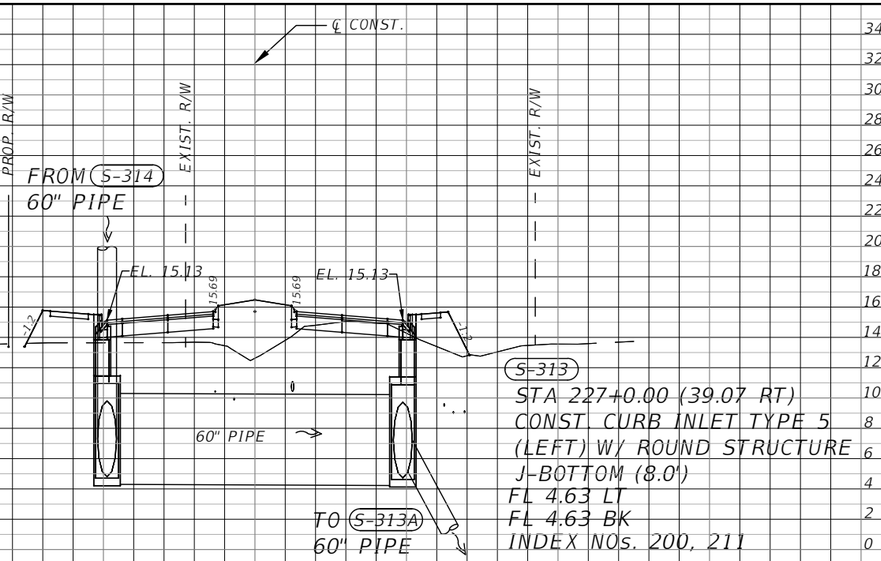
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (26)

SHEET NO.: 112

Floyd, Cindy
2/6/2019 12:00:35 PM
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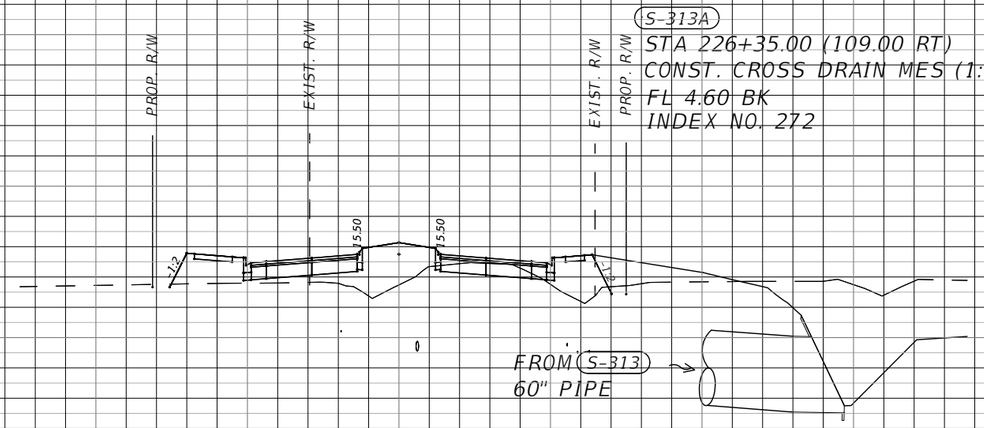
S-312

STA 227+00.00 (39.02 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE J-BOTTOM
(7.0'X7.0')
FL 4.65 AH
FL 4.65 RT
INDEX NOs. 200, 211

S-313

STA 227+00.00 (39.07 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ ROUND STRUCTURE
J-BOTTOM (8.0')
FL 4.63 LT
FL 4.63 BK
INDEX NOs. 200, 211

S-313
S-312
227+00.00



S-313A

STA 226+35.00 (109.00 RT)
CONST. CROSS DRAIN MES (1:4)
FL 4.60 BK
INDEX NO. 272

S-313A
226+35.00

1" = 40' Horizontal
1" = 10' Vertical

℄ CONST.

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

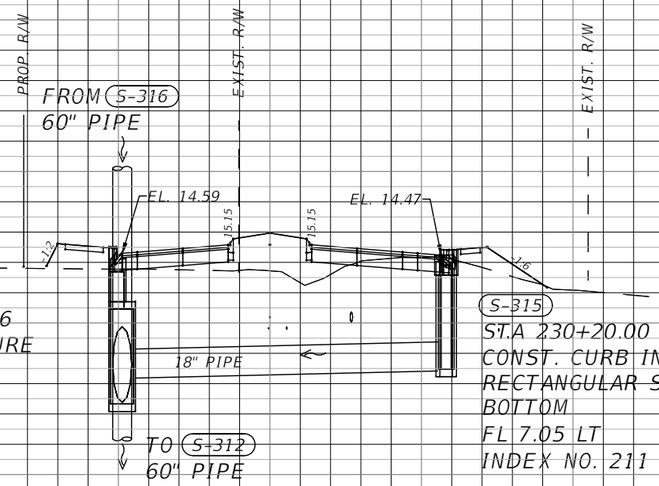
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (27)

SHEET NO.: 113

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S-314

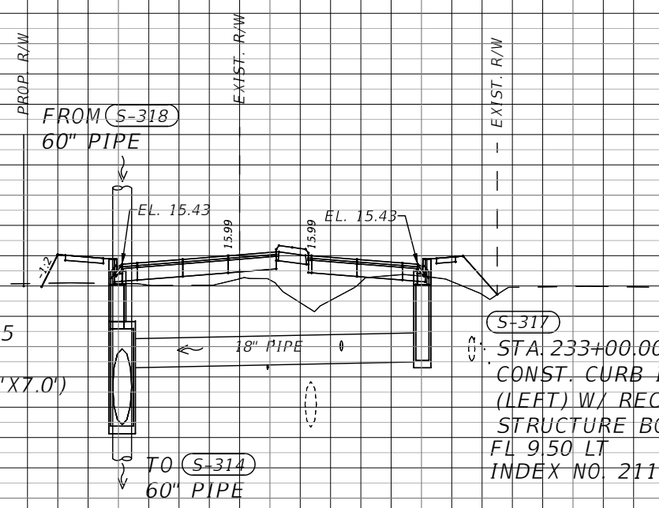
STA 230+20.00 (39.00 LT)
CONST. CURB INLET TYPE 6
W/ RECTANGULAR STRUCTURE
J-BOTTOM (4.0'X7.0)
FL 4.75 AH & BK
FL 6.55 RT
INDEX NOs. 200, 211

S-315

STA 230+20.00 (46.55 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 7.05 LT
INDEX NO. 211

S-315
S-314

230+20.00



S-316

STA 233+00.00 (39.00 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE J-BOTTOM (4.0'X7.0')
FL 4.85 AH & BK
FL 8.90 RT
INDEX NOs. 200, 211

S-317

STA. 233+00.00 (40.25 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 9.50 LT
INDEX NO. 211

S-317
S-316

233+00.00

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

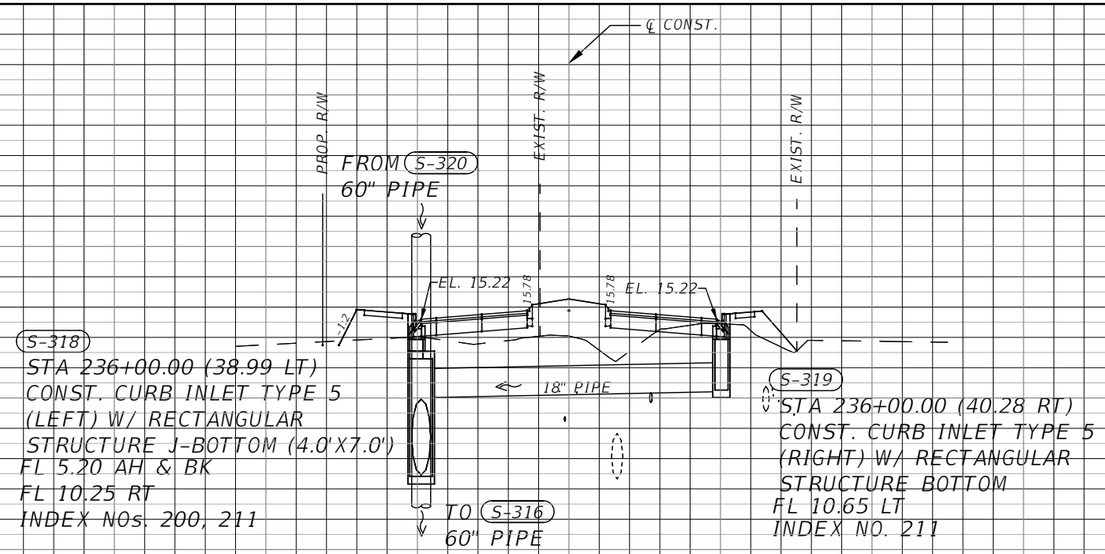
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (28)

SHEET NO.: 114

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2/6/2019 12:01:33 PM
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S-318

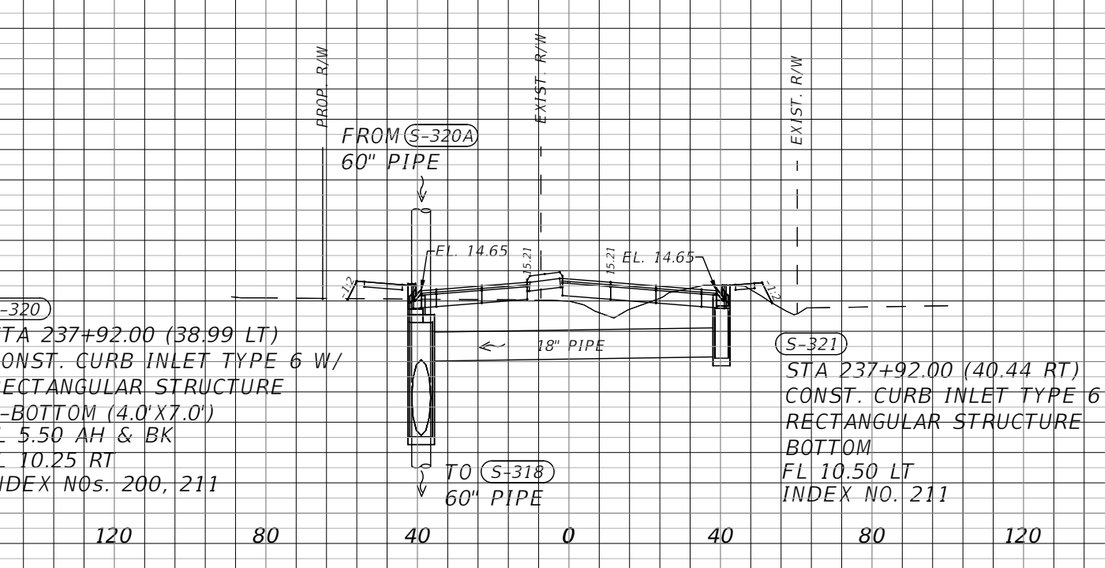
STA 236+00.00 (38.99 LT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE J-BOTTOM (4.0'X7.0')
FL 5.20 AH & BK
FL 10.25 RT
INDEX NOs. 200, 211

S-319

STA 236+00.00 (40.28 RT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 10.65 LT
INDEX NO. 211

S-319
S-318

236+00.00



S-320

STA 237+92.00 (38.99 LT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
J-BOTTOM (4.0'X7.0')
FL 5.50 AH & BK
FL 10.25 RT
INDEX NOs. 200, 211

S-321

STA 237+92.00 (40.44 RT)
CONST. CURB INLET TYPE 6 W/
RECTANGULAR STRUCTURE
BOTTOM
FL 10.50 LT
INDEX NO. 211

S-321
S-320

237+92.00

120 80 40 0 40 80 120

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

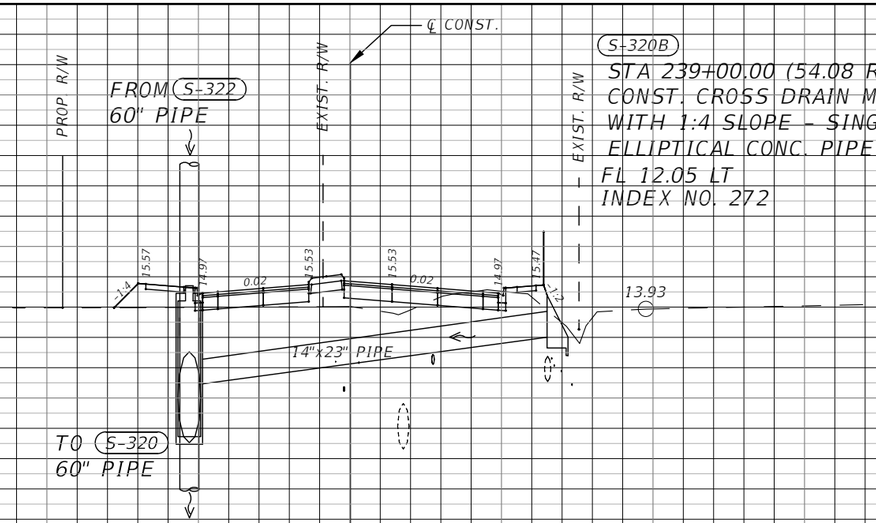
DRAINAGE STRUCTURE SECTIONS (29)

SHEET NO.: 115

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2/6/2019 12:02:05 PM
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S-320A

STA 239+00.00 (-42.55 LT)
CONST. PRECAST TYPE J7
MANHOLE 4'x7'
RIM EL= 15.46
FL 5.56 AH
FL 9.30 RT
FL 5.56 BK
INDEX NOs. 200, 201



S-320B

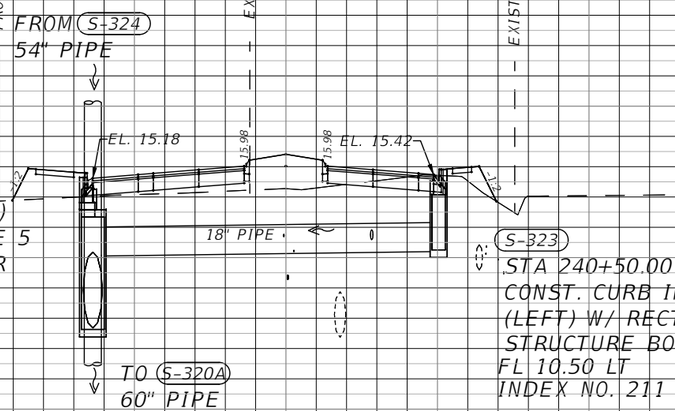
STA 239+00.00 (54.08 RT)
CONST. CROSS DRAIN MES
WITH 1:4 SLOPE - SINGLE
ELLIPTICAL CONC. PIPE
FL 12.05 LT
INDEX NO. 272

S-320A
S-320B

239+00.00

S-322

STA 240+50.00 (50.97 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE J-BOTTOM
(4.0'X7.0')
FL 5.70 BK
FL 6.20 AH
FL 10.30 RT
INDEX NOs. 200, 211



S-323

STA 240+50.00 (40.32 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 10.50 LT
INDEX NO. 211

S-323
S-322

240+50.00

℄ CONST.

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

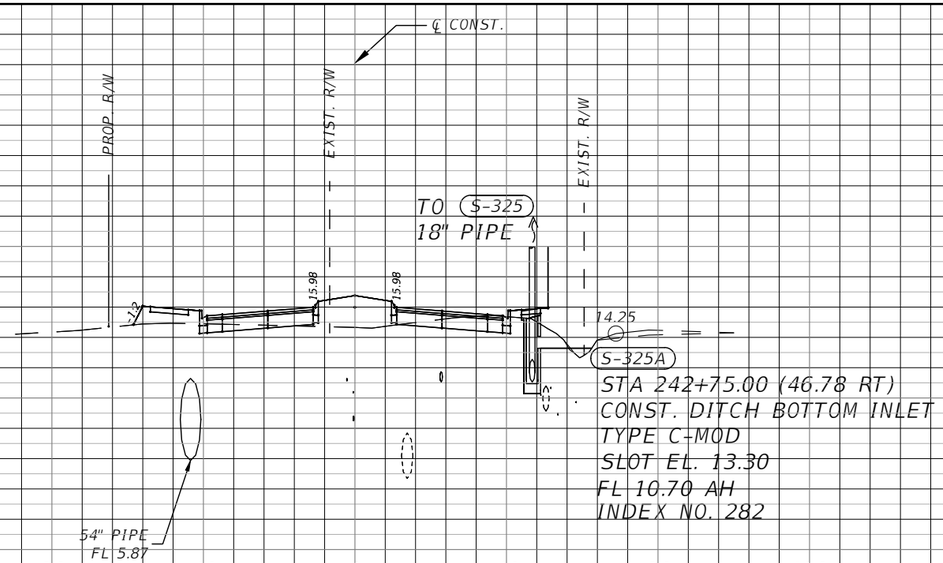
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (30)

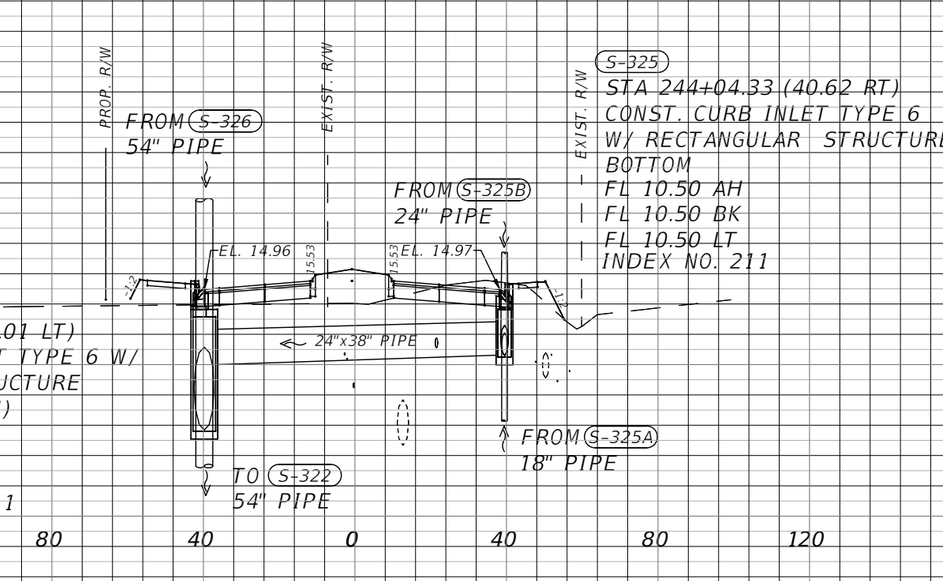
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2/6/2019 12:02:35 PM
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S-325A

242+75.00



S-325
S-324

244+04.33

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
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DATE: 02/2019
PROJECT NO.: 6086960

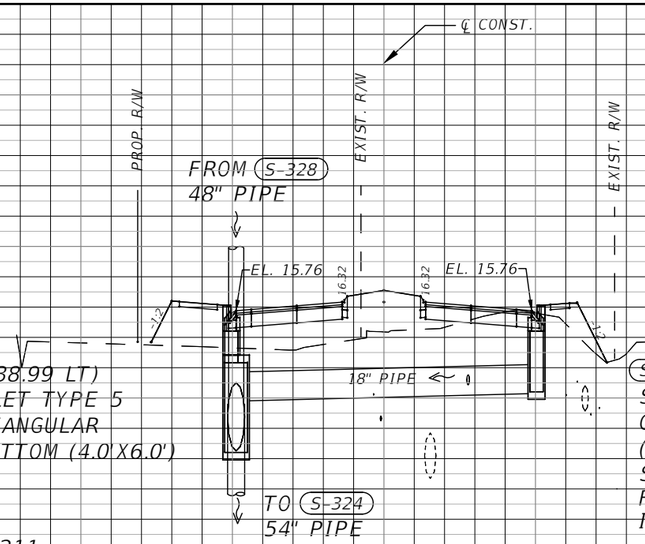
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (31)

SHEET NO.: 117

Floyd, Cindy
2/6/2019 12:03:07 PM
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S-326

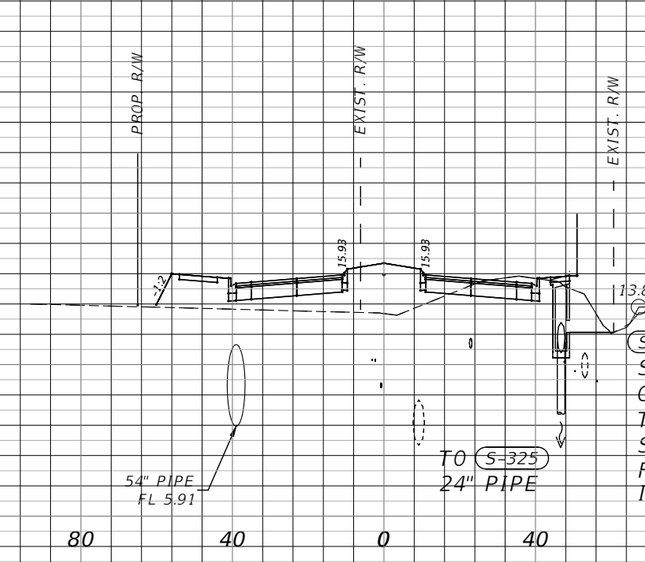
STA 246+95.00 (38.99 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE J-BOTTOM (4.0'X6.0')
FL 6.60 BK
FL 7.10 AH
FL 9.80 RT
INDEX NOs. 200, 211

S-327

STA 246+95.00 (40.30 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 10.50 LT
INDEX NO. 211

S-327
S-326

246+95.00



S-325B

STA 245+65.00 (46.82 RT)
CONST. DITCH BOTTOM INLET
TYPE C-MOD
SLOT EL. 12.13
FL 10.70 BK
INDEX NO. 282

S-325B

245+65.00

120 80 40 0 40 80 120

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

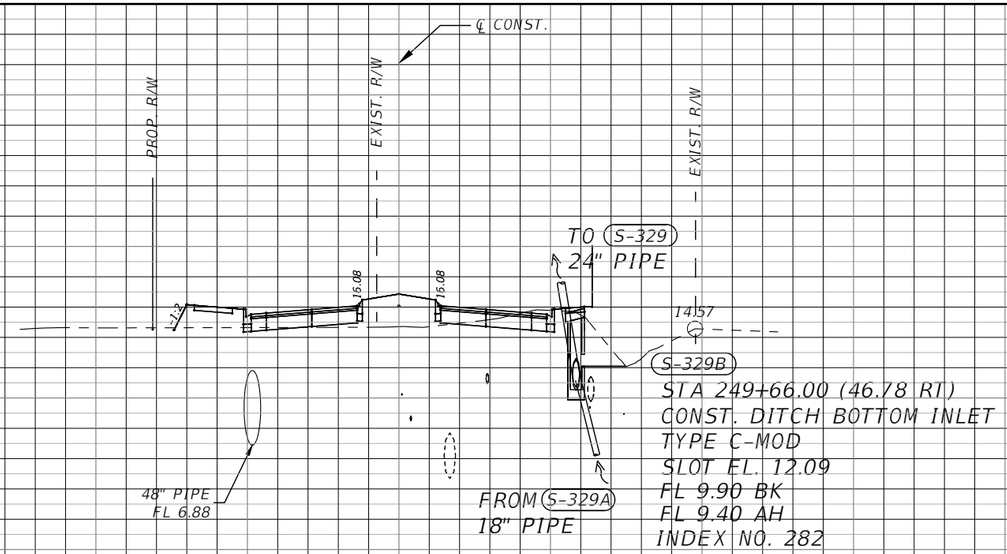
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (32)

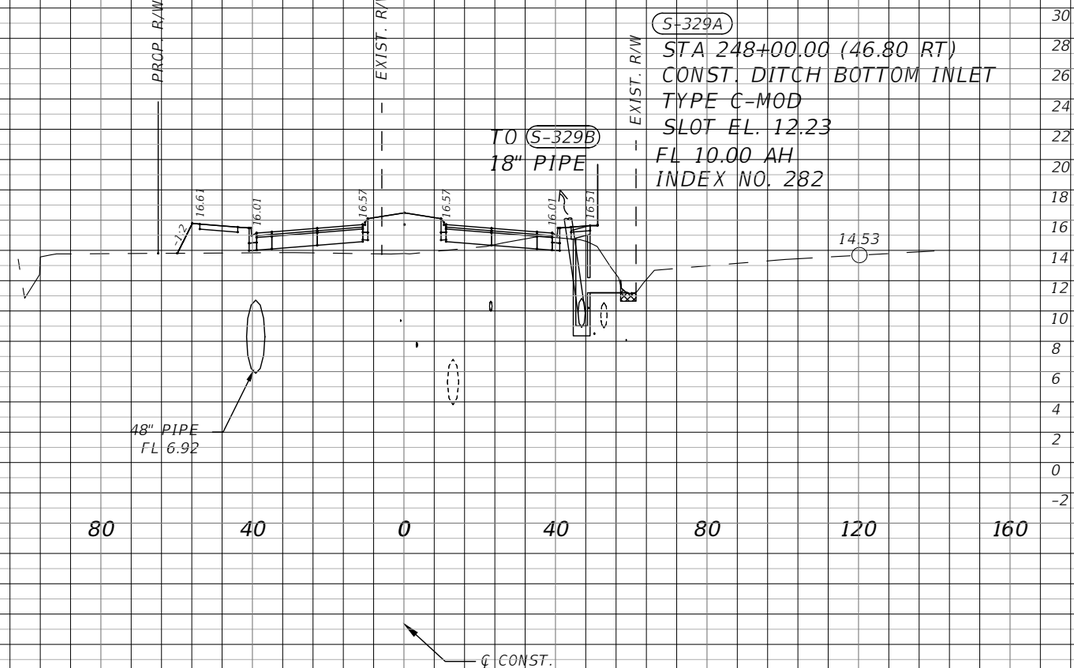
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S-329B

249+66.00



S-329A

248+00.00

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

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P.E. NO. 86689
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

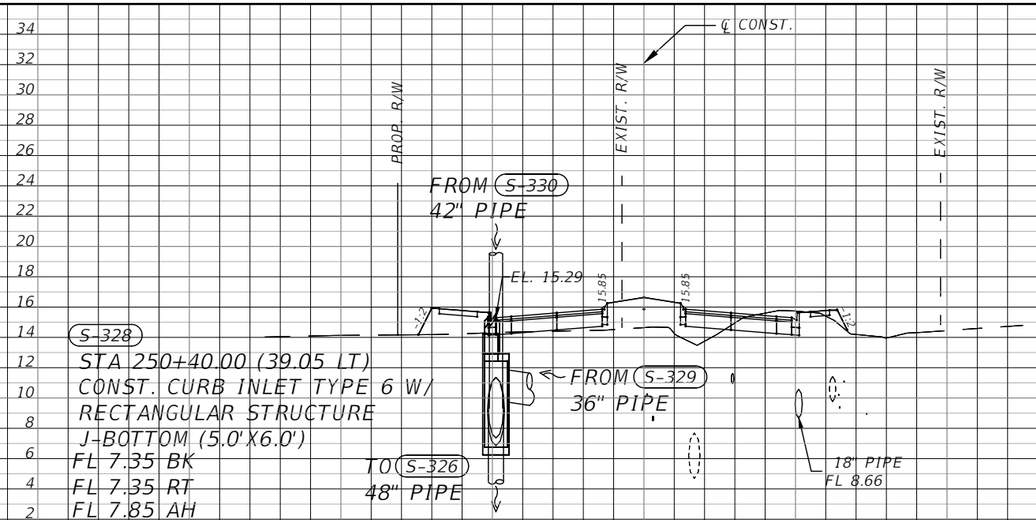
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

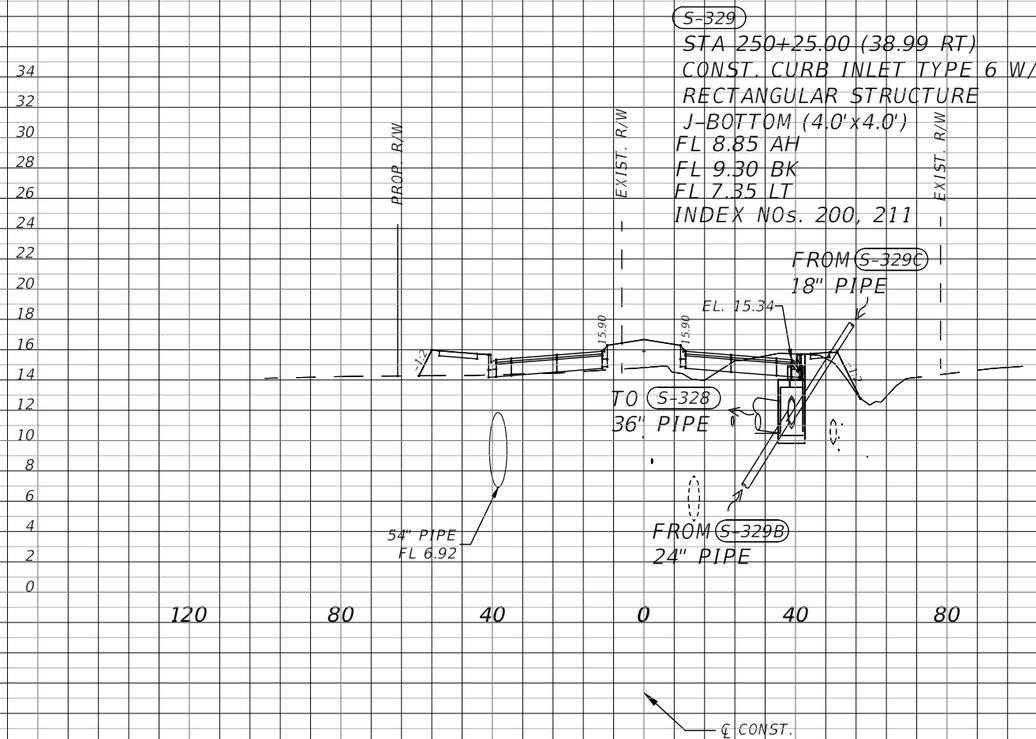
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

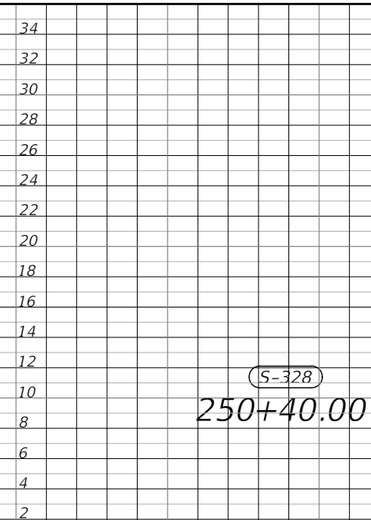
DRAINAGE STRUCTURE SECTIONS (33)

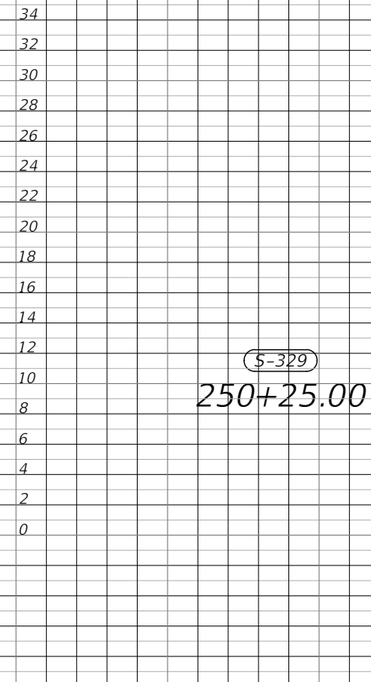
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1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

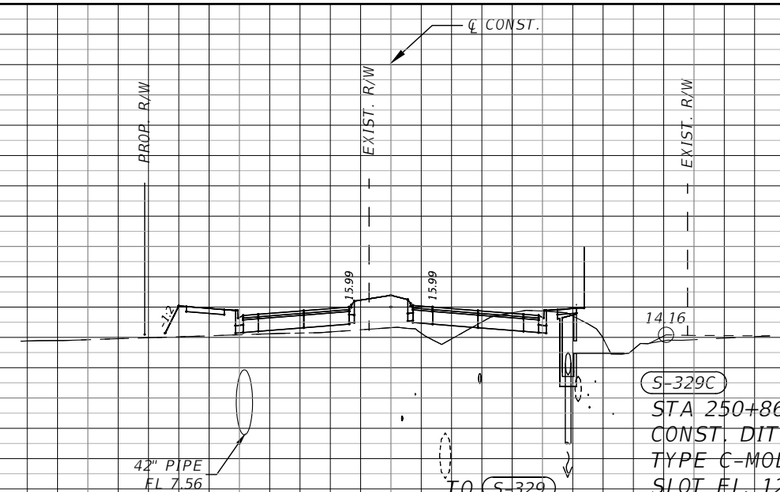
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (34)

SHEET NO.: 120

Floyd, Cindy
2/6/2019 12:04:39 PM
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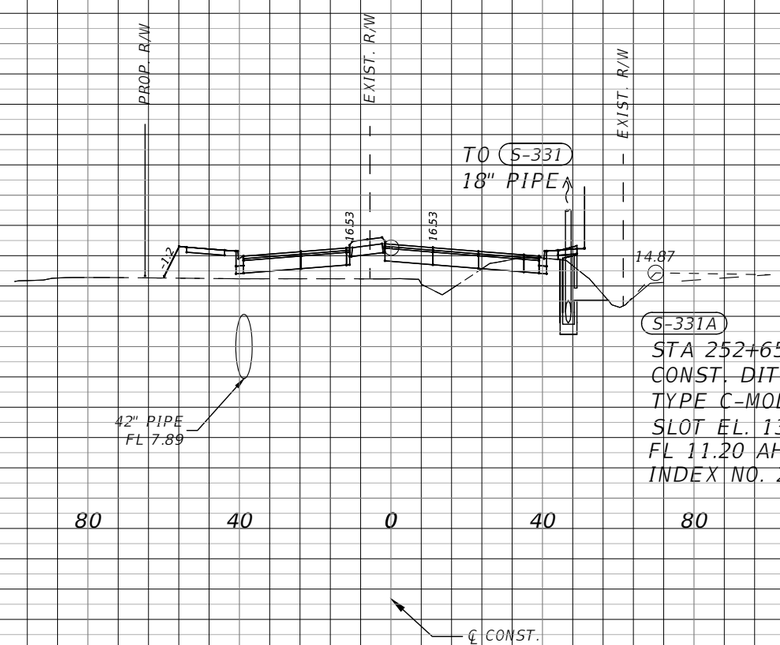


S-329C

STA 250+86.00 (46.80 RT)
CONST. DITCH BOTTOM INLET
TYPE C-MOD
SLOT EL. 12.95
FL 9.00 BK
INDEX NO. 282

S-329C

250+86.00



S-331A

STA 252+65.00 (46.72 RT)
CONST. DITCH BOTTOM INLET
TYPE C-MOD
SLOT EL. 13.05
FL 11.20 AH
INDEX NO. 282

S-331A

252+65.00

1" = 40' Horizontal
1" = 10' Vertical

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JILLIAN P. BERBAKOV, P.E.
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(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

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PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

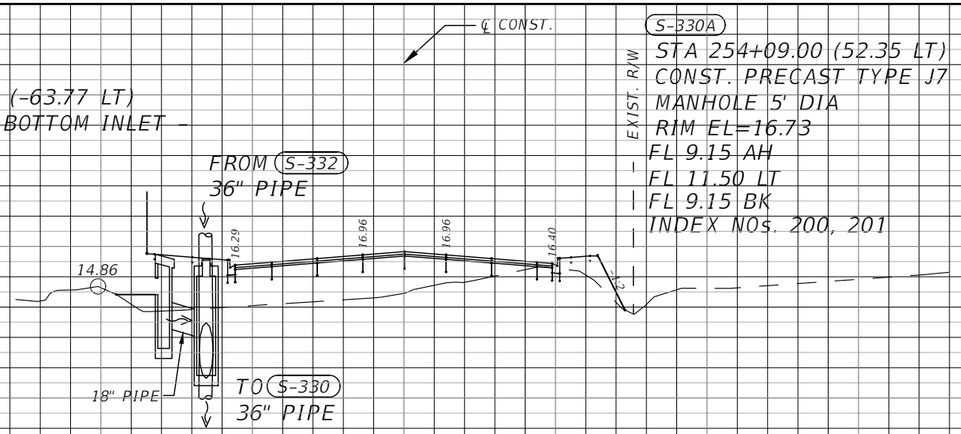
DRAINAGE STRUCTURE SECTIONS (35)

SHEET NO.: 121

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S-330B

STA 254+09.00 (-63.77 LT)
CONST. DITCH BOTTOM INLET -
TYPE C-MOD
SLOT EL. 14.30
FL 12.00 RT
INDEX NO. 282



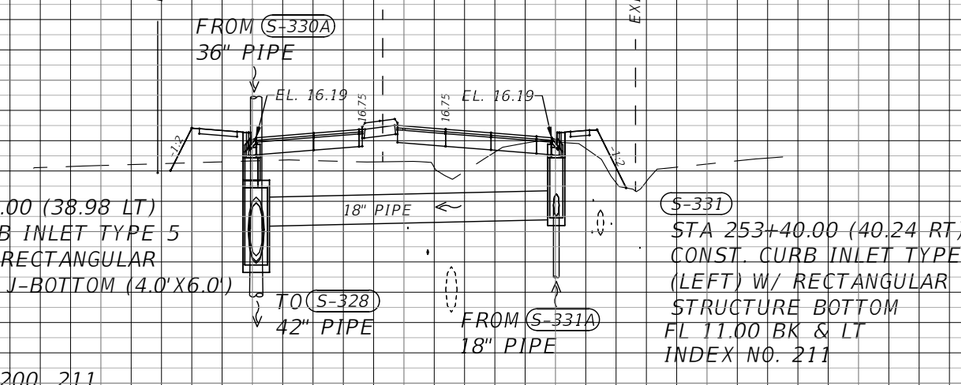
S-330A

STA 254+09.00 (52.35 LT)
CONST. PRECAST TYPE J7
MANHOLE 5' DIA
RIM EL=16.73
FL 9.15 AH
FL 11.50 LT
FL 9.15 BK
INDEX NOs. 200, 201

S-330A
S-330B
254+09.00

S-330

STA 253+40.00 (38.98 LT)
CONST. CURB INLET TYPE 5
(RIGHT) W/ RECTANGULAR
STRUCTURE J-BOTTOM (4.0'X6.0')
FL 8.40 BK
FL 10.50 RT
FL 8.90 AH
INDEX NOs. 200, 211



S-331

STA 253+40.00 (40.24 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 11.00 BK & LT
INDEX NO. 211

S-331
S-330
253+40.00

1" = 40' Horizontal
1" = 10' Vertical

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

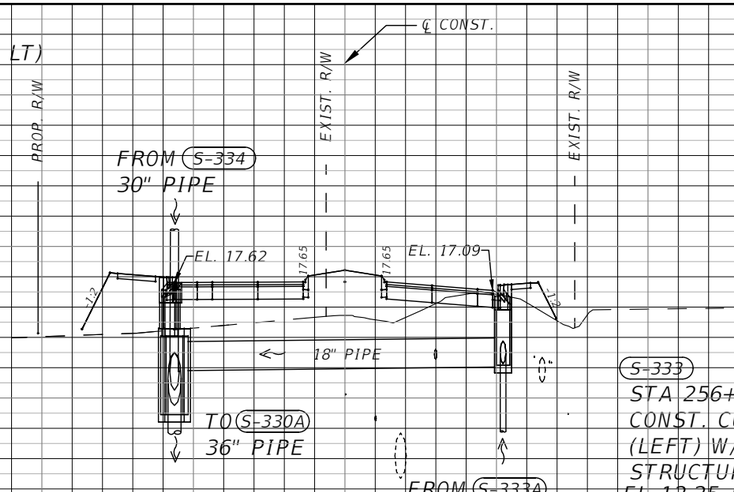
DRAINAGE STRUCTURE SECTIONS (36)

SHEET NO.: 122

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S-332

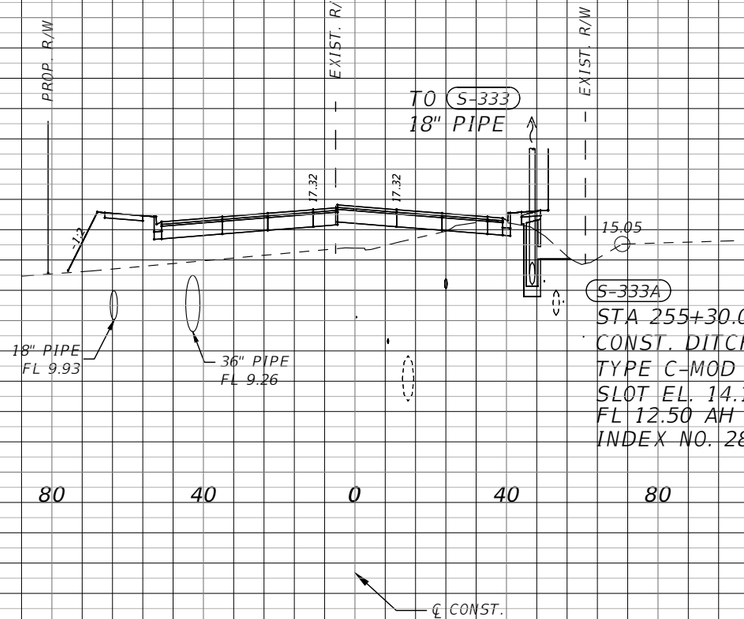
STA 256+40.00 (44.98 LT)
CONST. CURB INLET
TYPE 5 (RIGHT) W/
RECT. STRUCT.
J-BOTTOM (5.0'X5.0')
FL 10.00 BK
FL 12.00 RT
FL 10.50 AH
INDEX NOs. 200, 211



S-333

STA 256+40.00 (41.76 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 12.25 LT & BK
INDEX NO. 211

S-333
S-332
256+40.00



S-333A

STA 255+30.00 (46.84 RT)
CONST. DITCH BOTTOM INLET -
TYPE C-MOD
SLOT EL. 14.10
FL 12.50 AH
INDEX NO. 282

S-333A
255+30.00

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

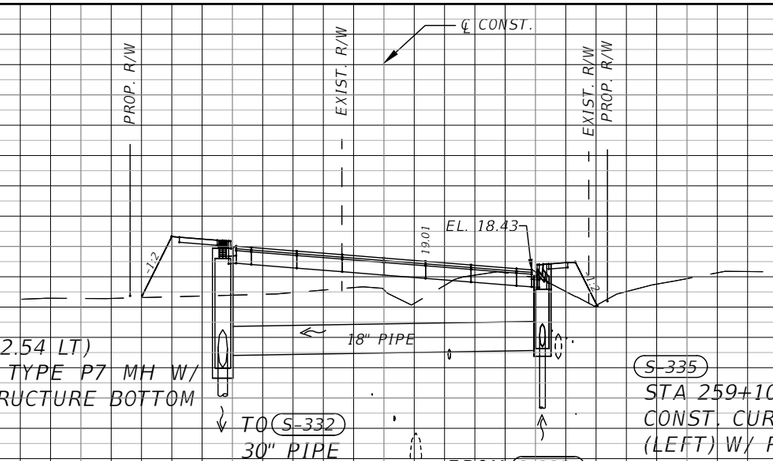
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (37)

SHEET NO.: 123

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S-334

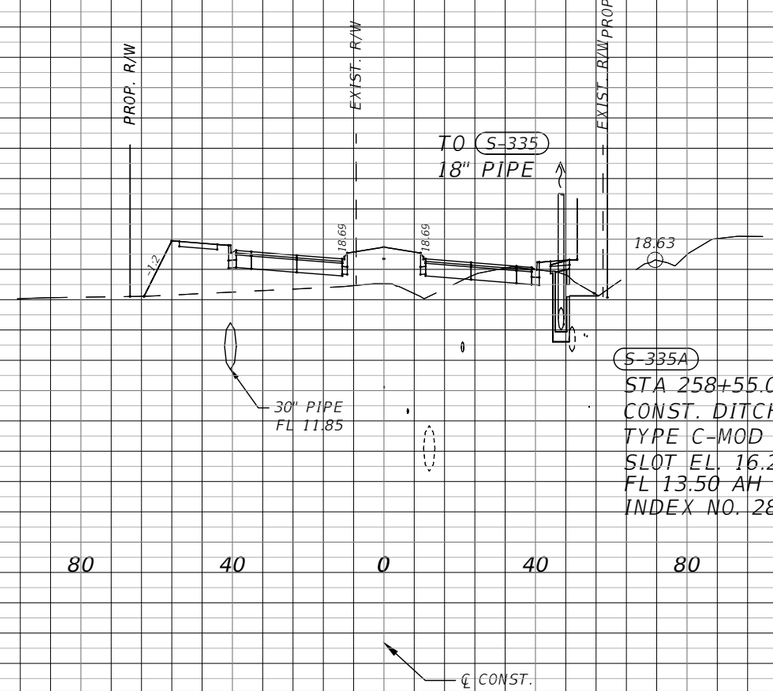
STA 259+10.00 (42.54 LT)
CONST. PRECAST TYPE P7 MH W/
RECTANGULAR STRUCTURE BOTTOM
RIM EL. 20.38
FL 13.10 RT
FL 12.10 BK
INDEX NO. 201

S-335

STA 259+10.00 (41.86 RT)
CONST. CURB INLET TYPE 5
(LEFT) W/ RECTANGULAR
STRUCTURE BOTTOM
FL 13.40 BK
FL 13.40 LT
INDEX NO. 211

S-335
S-334

259+10.00



S-335A

STA 258+55.00 (46.77 RT)
CONST. DITCH BOTTOM INLET -
TYPE C-MOD
SLOT EL. 16.20
FL 13.50 AH
INDEX NO. 282

S-335A

258+55.00

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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JILLIAN P. BERBAKOV, P.E.
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

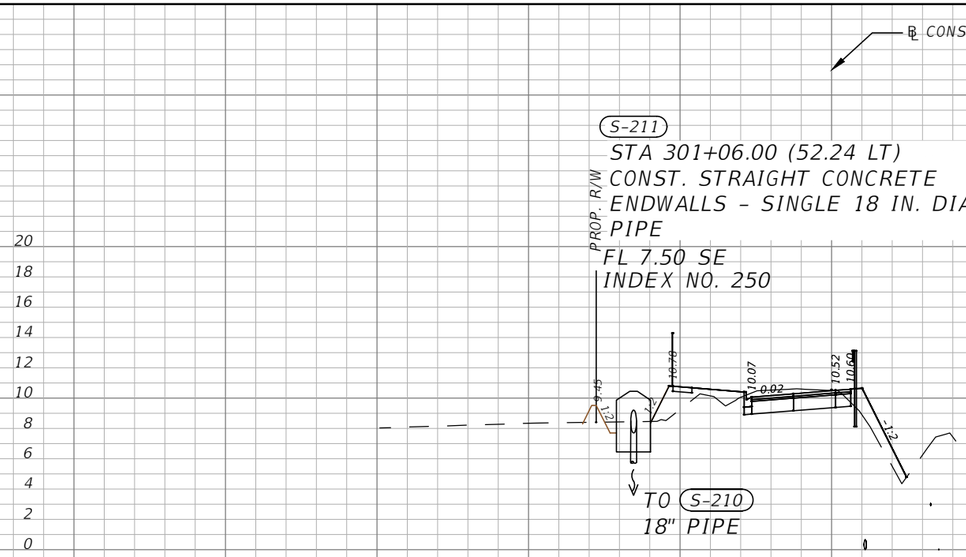
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

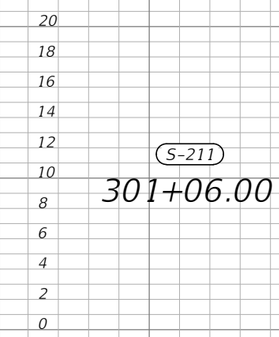
DRAINAGE STRUCTURE SECTIONS (38)

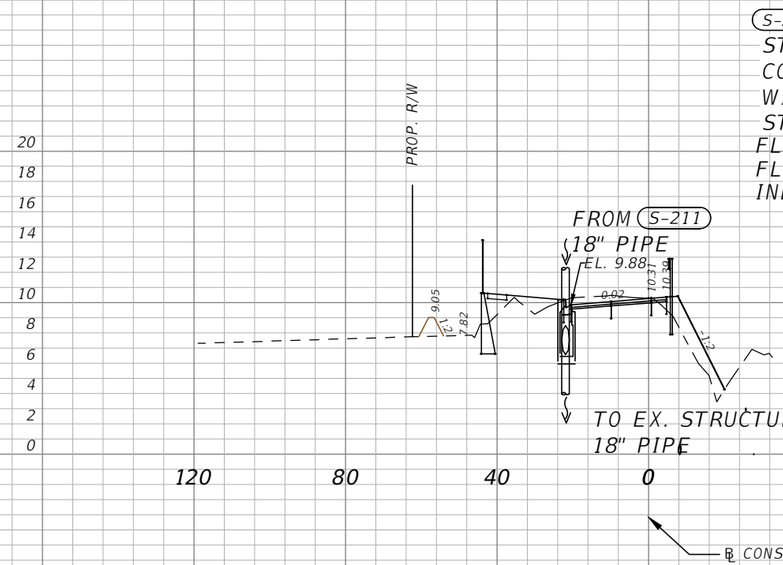
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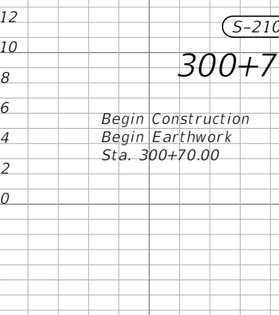
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Floyd, Cindy 2/6/2019 12:06:48 PM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\drainage\DRXSCN01_1_1_9943.dwg









1" = 40' Horizontal
1" = 10' Vertical

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DRAWN BY: JPB
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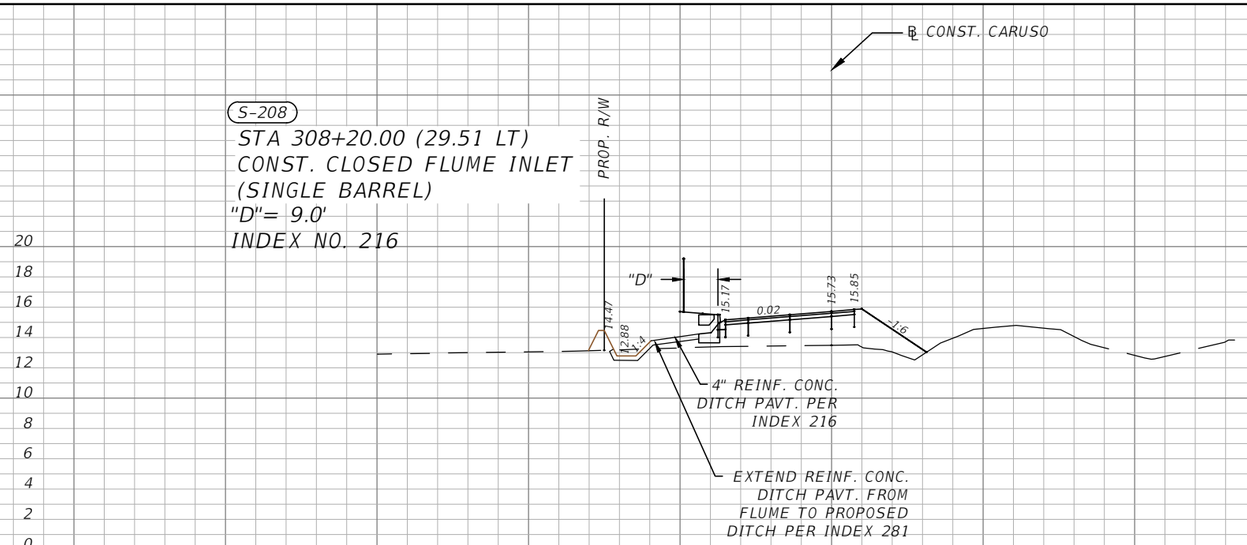
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (39)

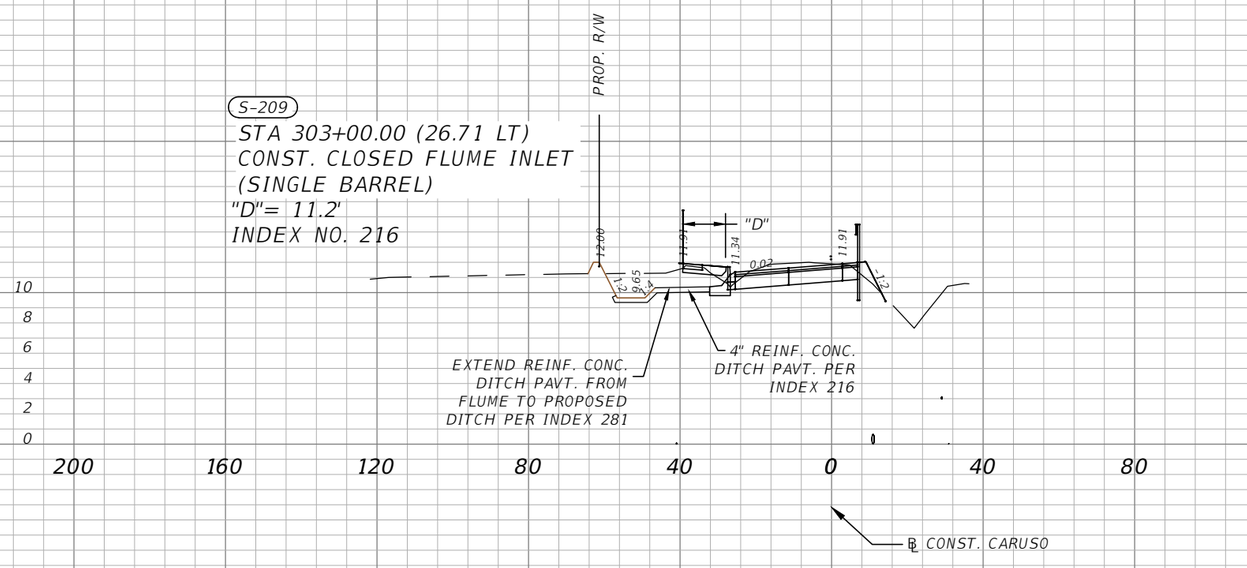
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S-208

308+20.00



S-209

303+00.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

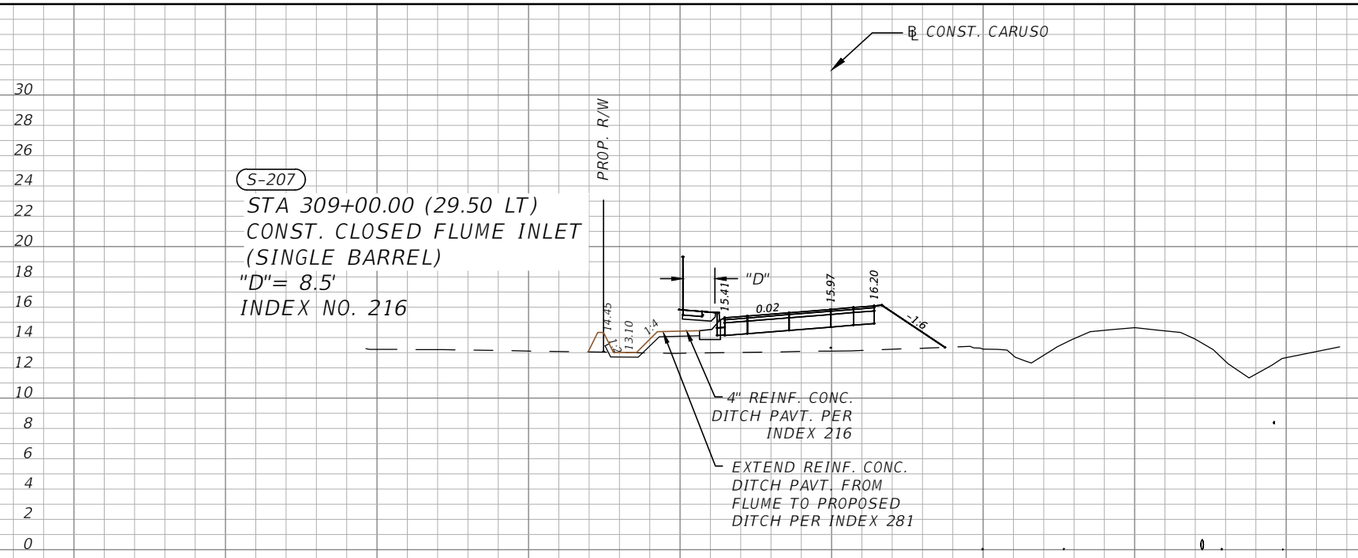
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

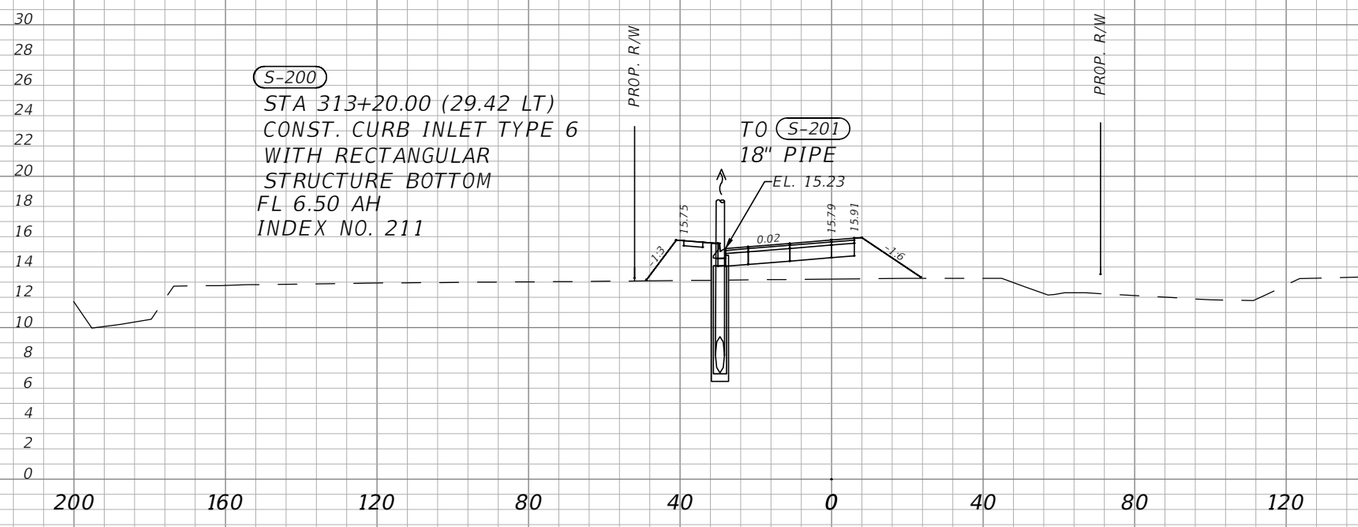
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (40)

SHEET NO.: 126

Floyd, Cindy
5/23/2019 10:01:35 AM
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1" = 40' Horizontal
1" = 10' Vertical

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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

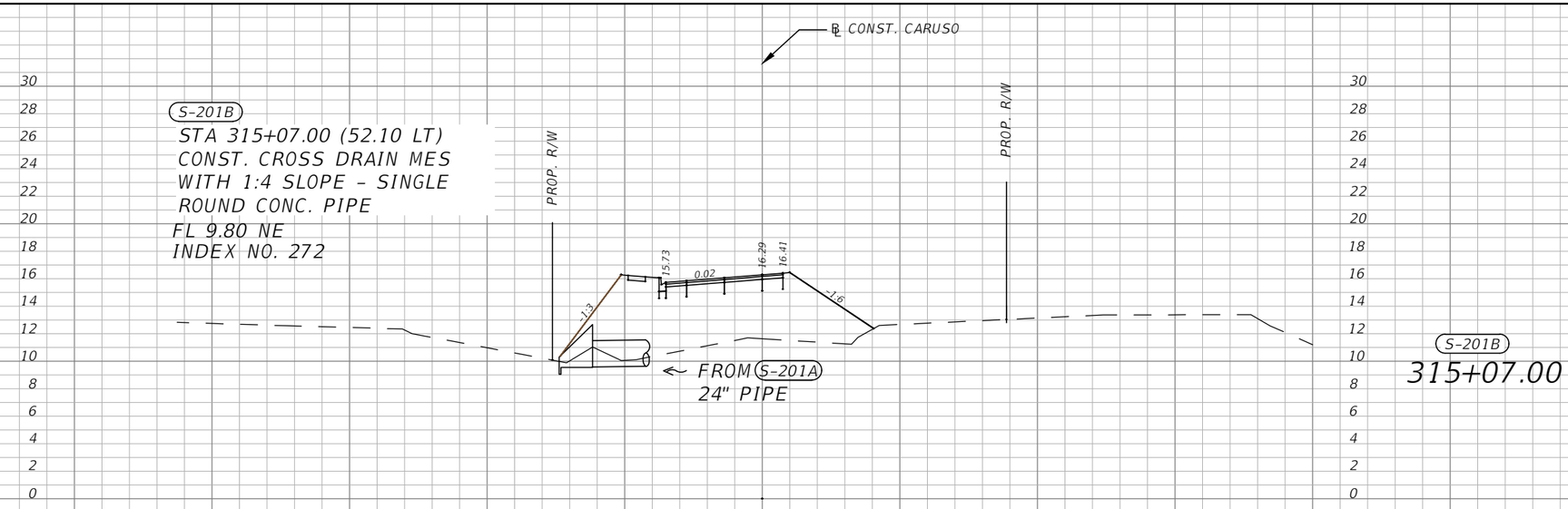
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

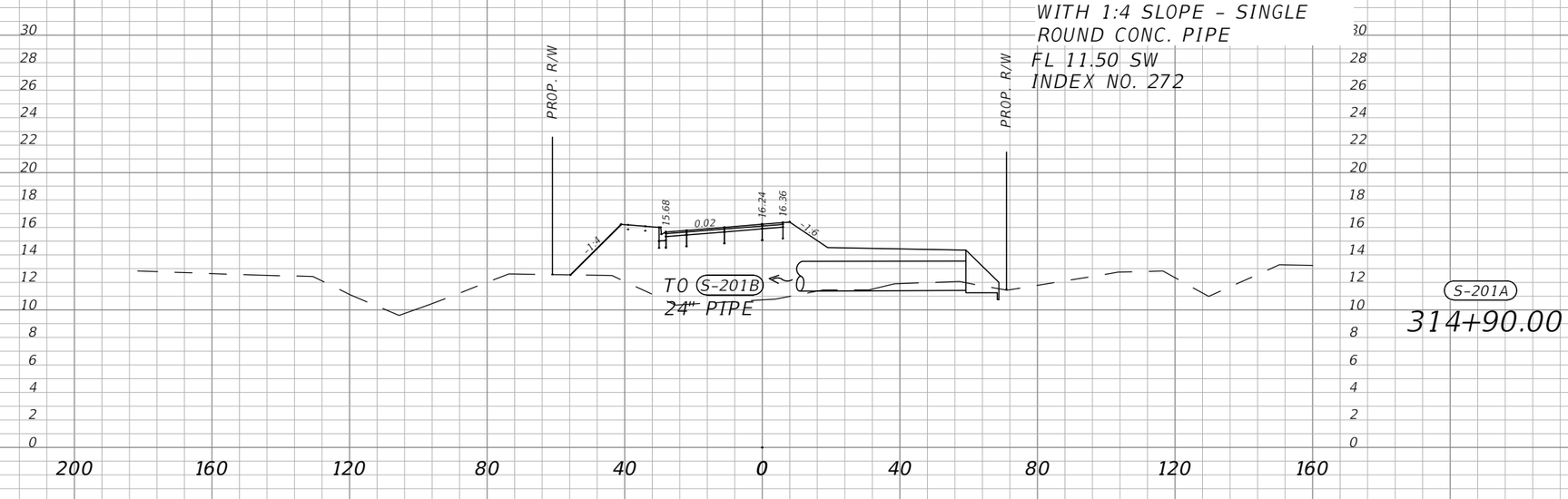
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (41)

SHEET NO.: 127

Floyd, Cindy
5/23/2019 10:03:53 AM
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1" = 40' Horizontal
1" = 10' Vertical

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

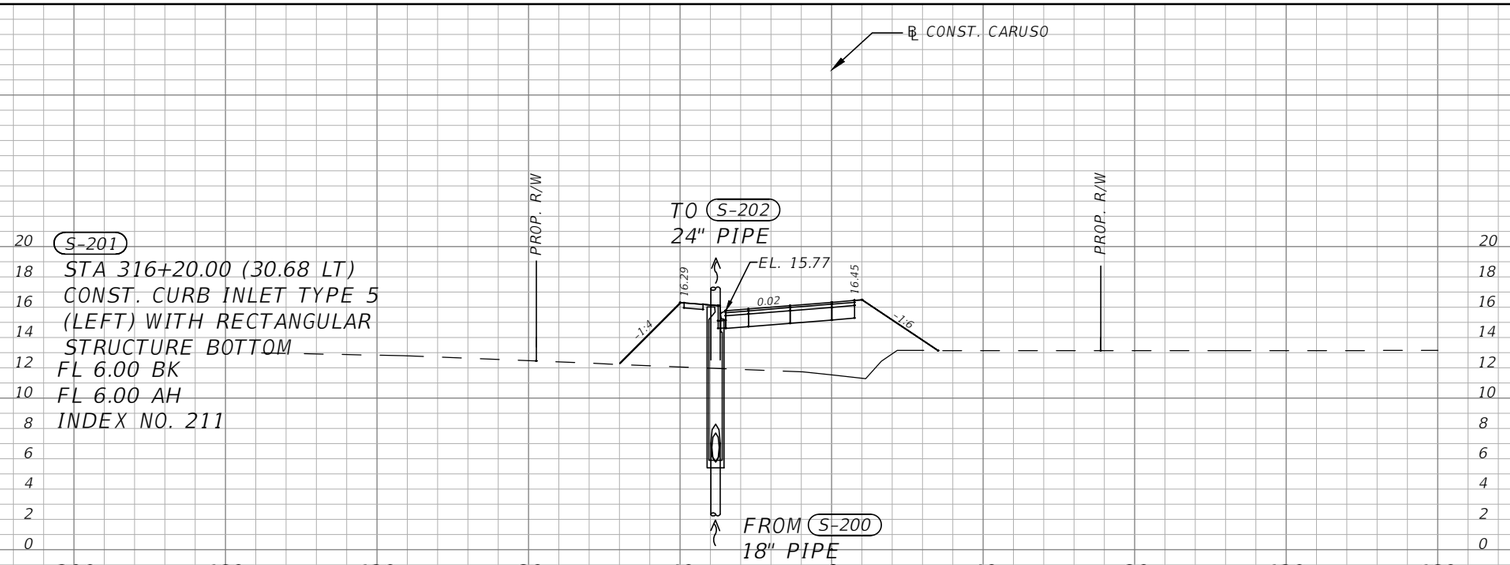
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (42)

SHEET NO.: 128

Floyd, Cindy
5/23/2019 9:55:36 AM
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S-201

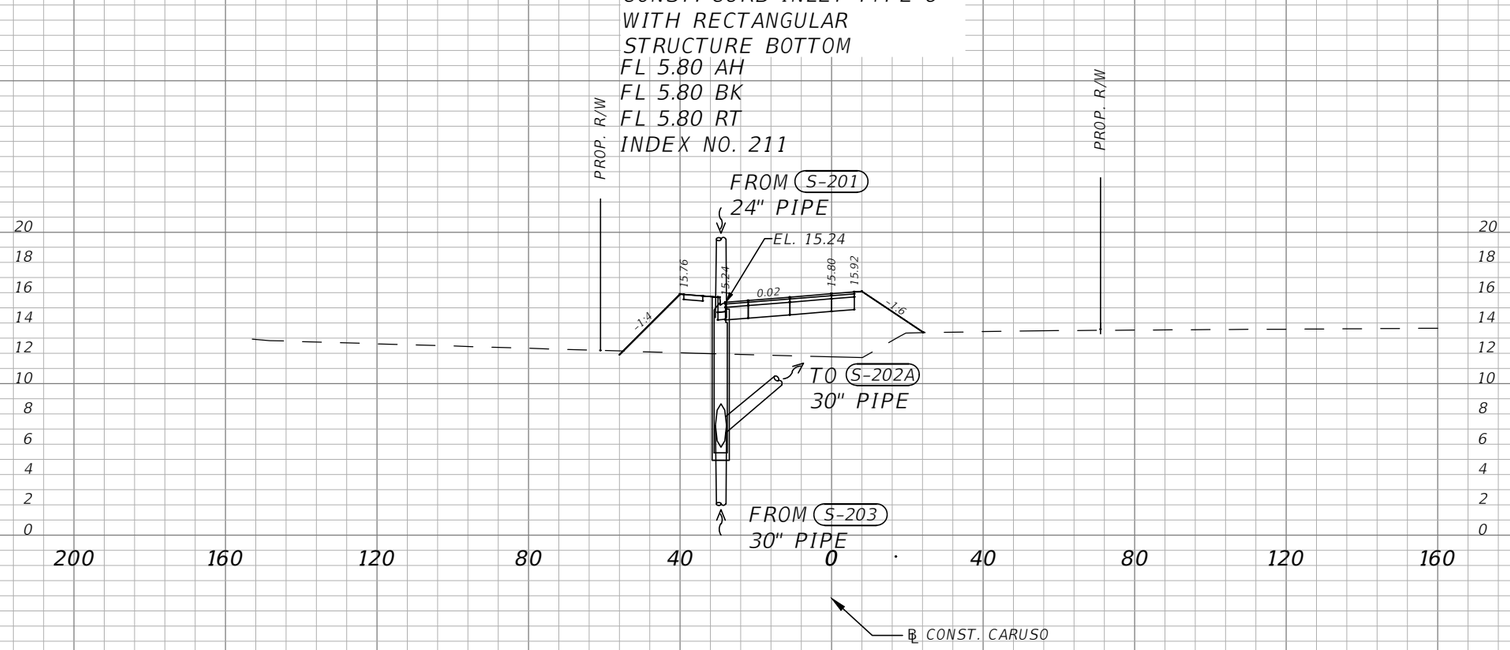
STA 316+20.00 (30.68 LT)
CONST. CURB INLET TYPE 5
(LEFT) WITH RECTANGULAR
STRUCTURE BOTTOM
FL 6.00 BK
FL 6.00 AH
INDEX NO. 211

S-201

316+20.00

S-202

STA 318+20.00 (29.21 LT)
CONST. CURB INLET TYPE 6
WITH RECTANGULAR
STRUCTURE BOTTOM
FL 5.80 AH
FL 5.80 BK
FL 5.80 RT
INDEX NO. 211



S-202

318+20.00

1" = 40' Horizontal
1" = 10' Vertical

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SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
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AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

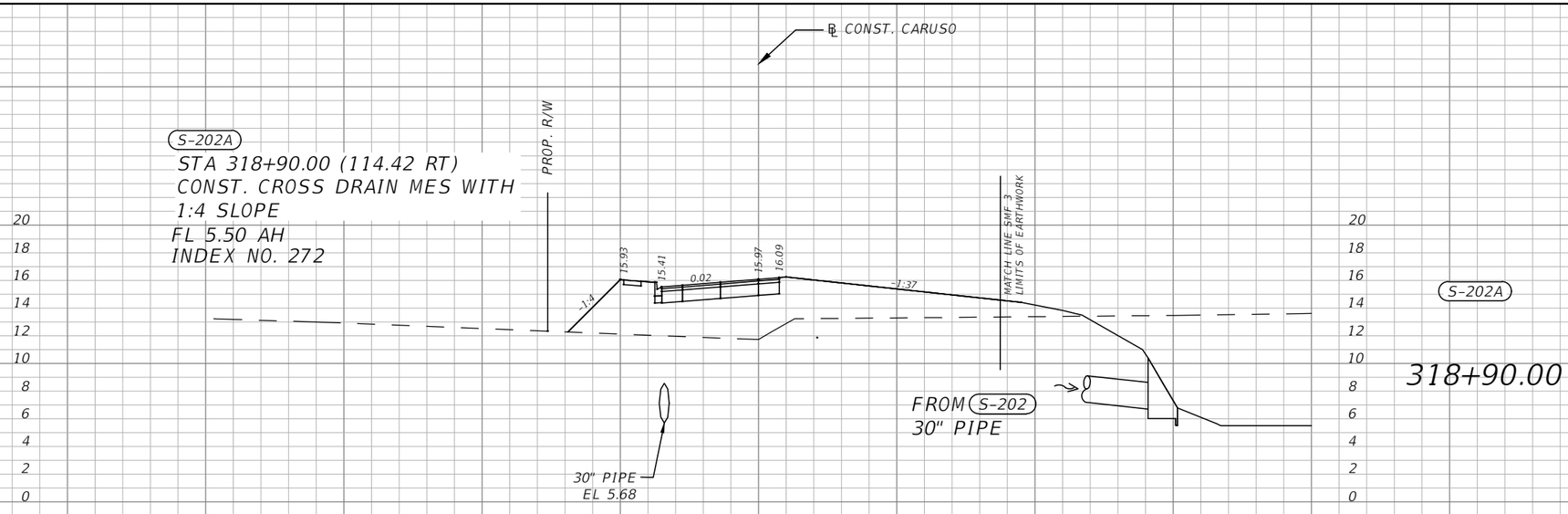
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

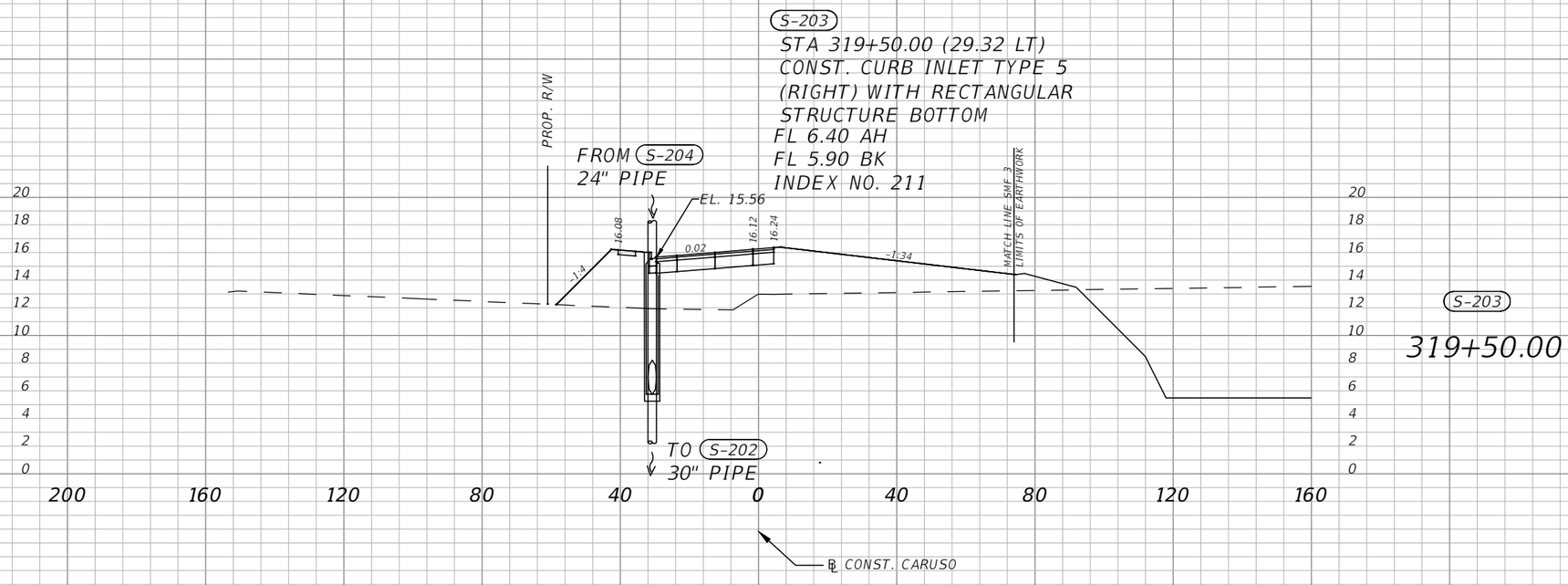
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (43)

SHEET NO.: 129

Floyd, Cindy
5/23/2019 9:53:54 AM
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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

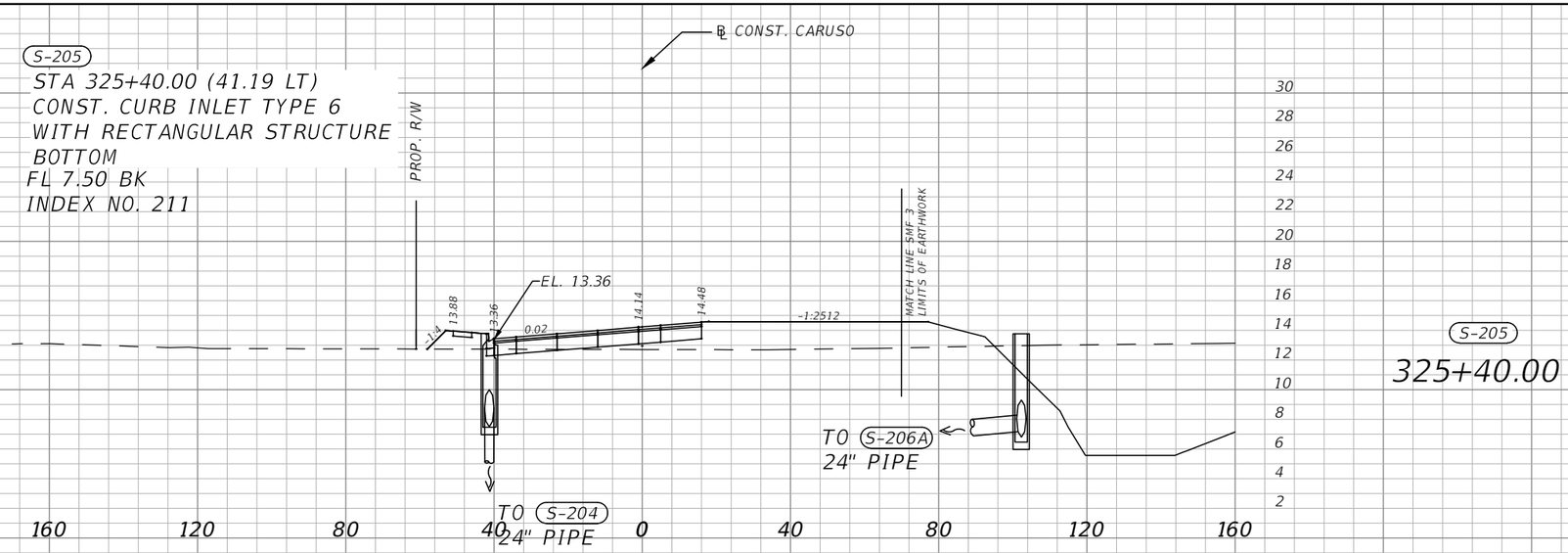
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

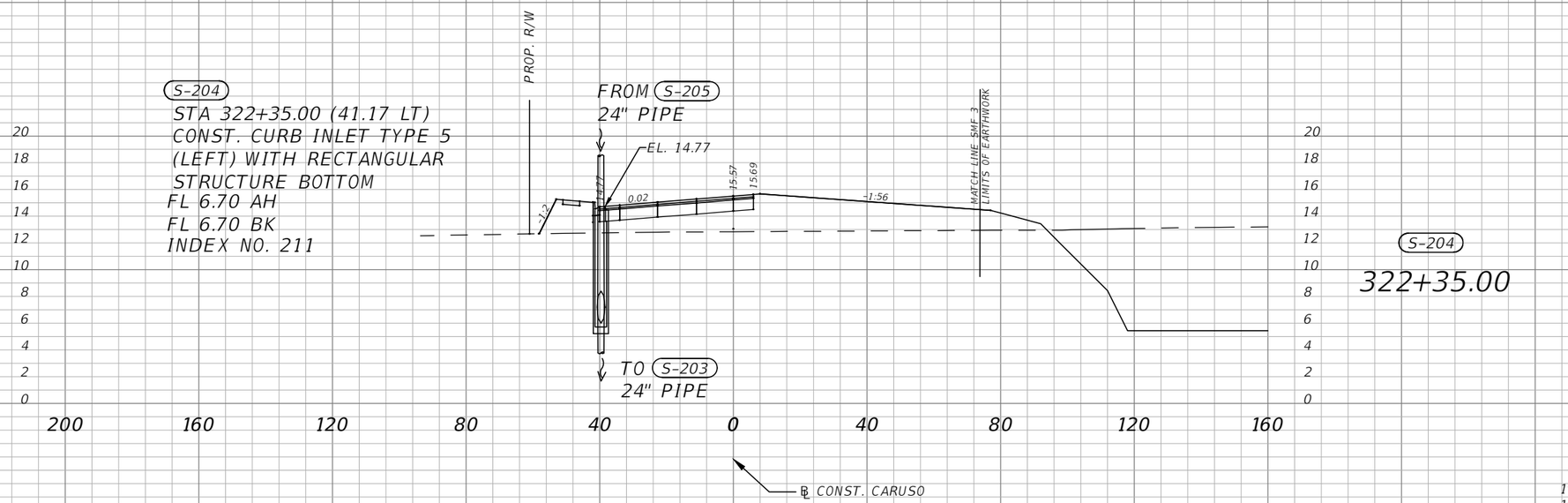
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (44)

SHEET NO.: 130

Floyd, Cindy
5/23/2019 9:59:31 AM
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1" = 10' Vertical

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No.	REVISIONS	DATE	BY

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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

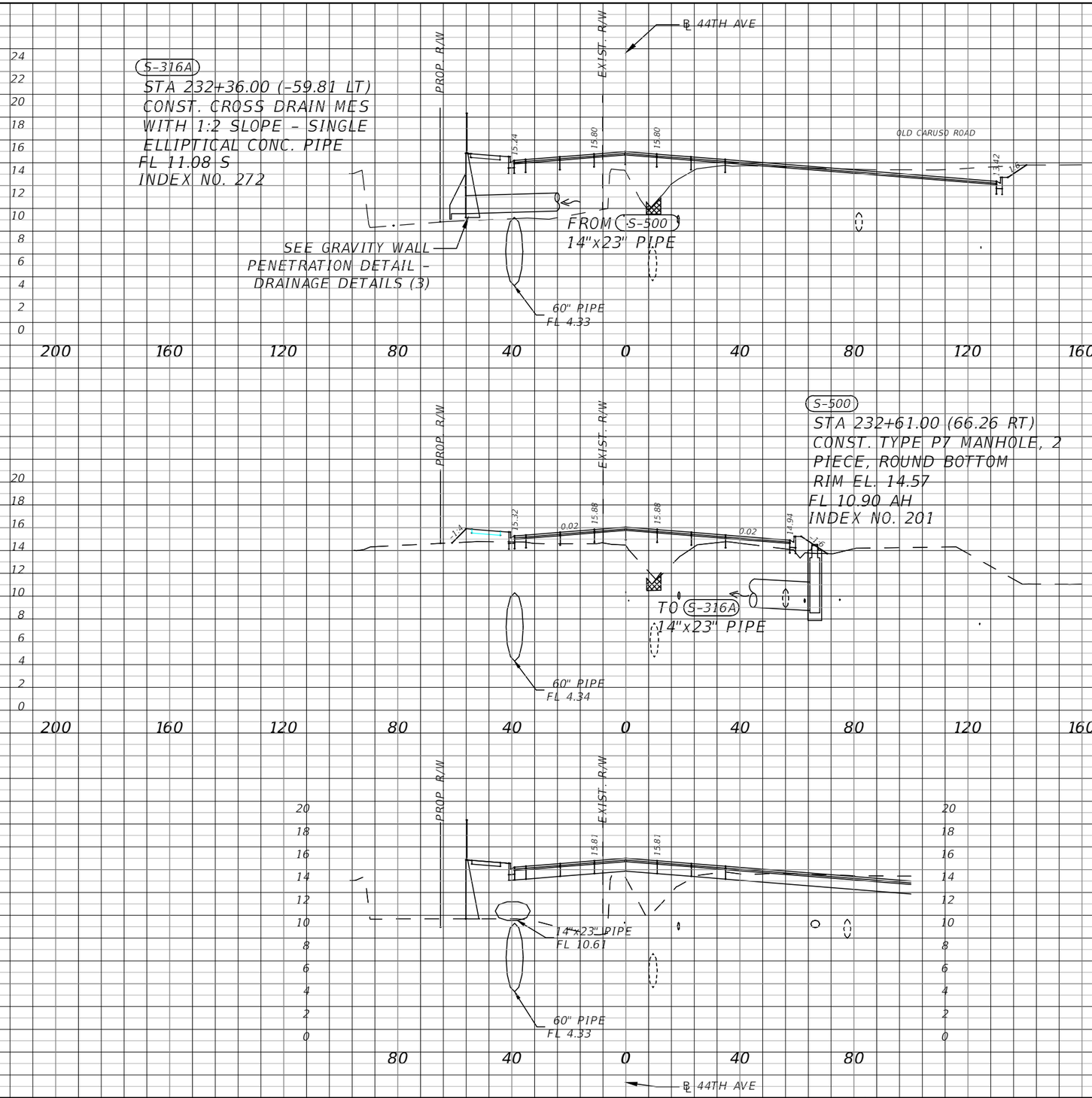
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (45)

SHEET NO.: 131

Floyd, Cindy
5/23/2019 9:52:10 AM
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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

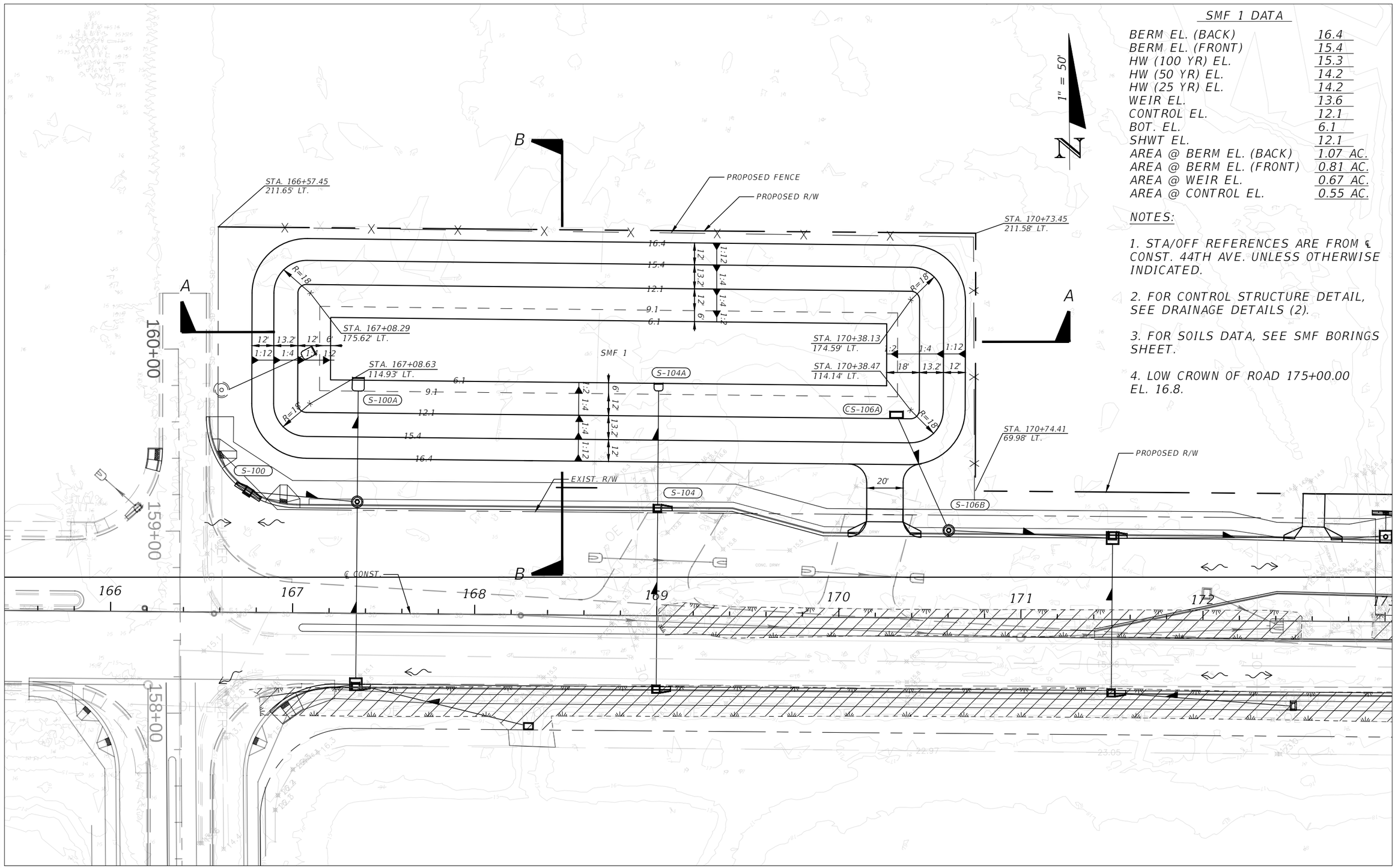
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE STRUCTURE SECTIONS (46)

SHEET NO.: 132

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Floyd, Cindy
2/6/2019 12:14:15 PM
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SMF 1 DATA

BERM EL. (BACK)	16.4
BERM EL. (FRONT)	15.4
HW (100 YR) EL.	15.3
HW (50 YR) EL.	14.2
HW (25 YR) EL.	14.2
WEIR EL.	13.6
CONTROL EL.	12.1
BOT. EL.	6.1
SHWT EL.	12.1
AREA @ BERM EL. (BACK)	1.07 AC.
AREA @ BERM EL. (FRONT)	0.81 AC.
AREA @ WEIR EL.	0.67 AC.
AREA @ CONTROL EL.	0.55 AC.

NOTES:

1. STA/OFF REFERENCES ARE FROM ℄ CONST. 44TH AVE. UNLESS OTHERWISE INDICATED.

2. FOR CONTROL STRUCTURE DETAIL, SEE DRAINAGE DETAILS (2).

3. FOR SOILS DATA, SEE SMF BORINGS SHEET.

4. LOW CROWN OF ROAD 175+00.00 EL. 16.8.

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
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7650 WEST COURTNEY CAMPBELL CAUSEWAY
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(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

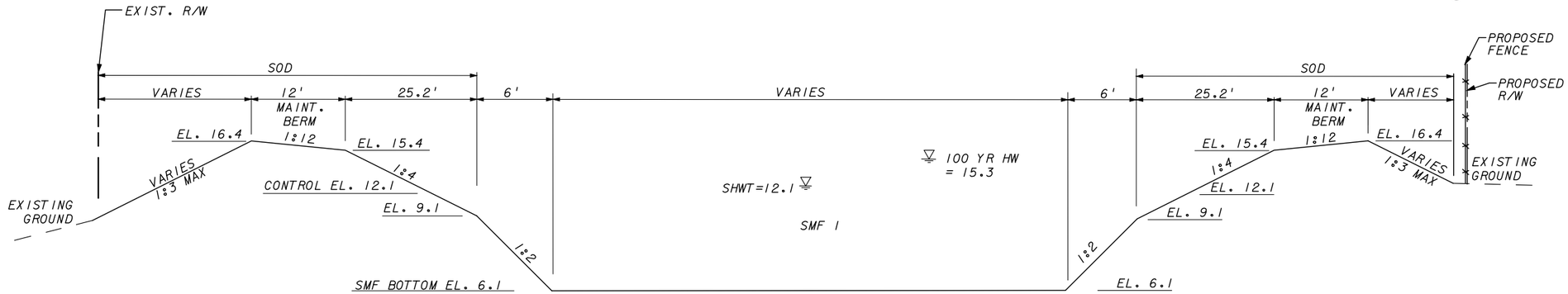
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

STORMWATER MANAGEMENT FACILITY 1

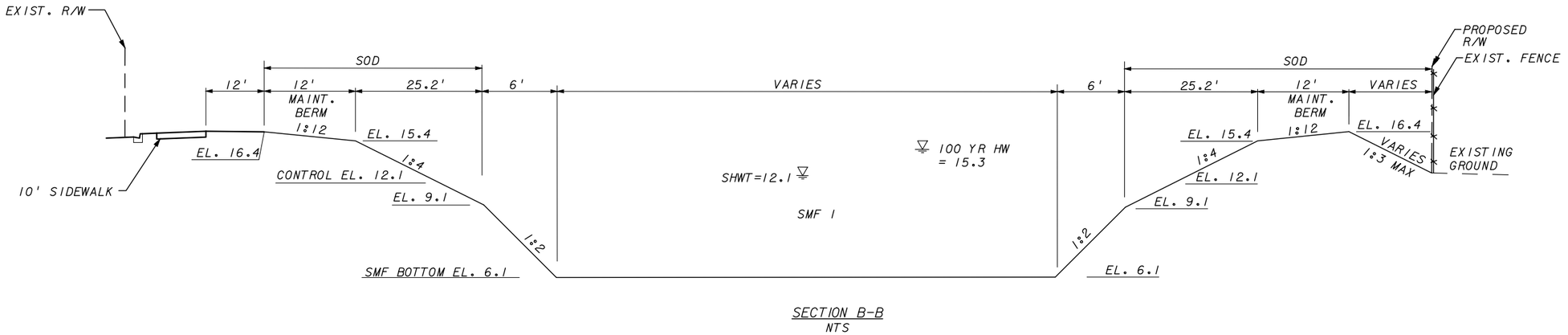
SHEET NO.: 133

SMF 1 DATA

BERM EL. (BACK)	16.4
BERM EL. (FRONT)	15.4
HW (100 YR) EL.	15.3
HW (50 YR) EL.	14.2
HW (25 YR) EL.	14.2
WEIR EL.	13.6
CONTROL EL.	12.1
BOT. EL.	6.1
SHWT EL.	12.1
AREA @ BERM EL. (BACK)	1.07 AC.
AREA @ BERM EL. (FRONT)	0.81 AC.
AREA @ WEIR EL.	0.67 AC.
AREA @ CONTROL EL.	0.55 AC.



SECTION A-A
NTS



SECTION B-B
NTS

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

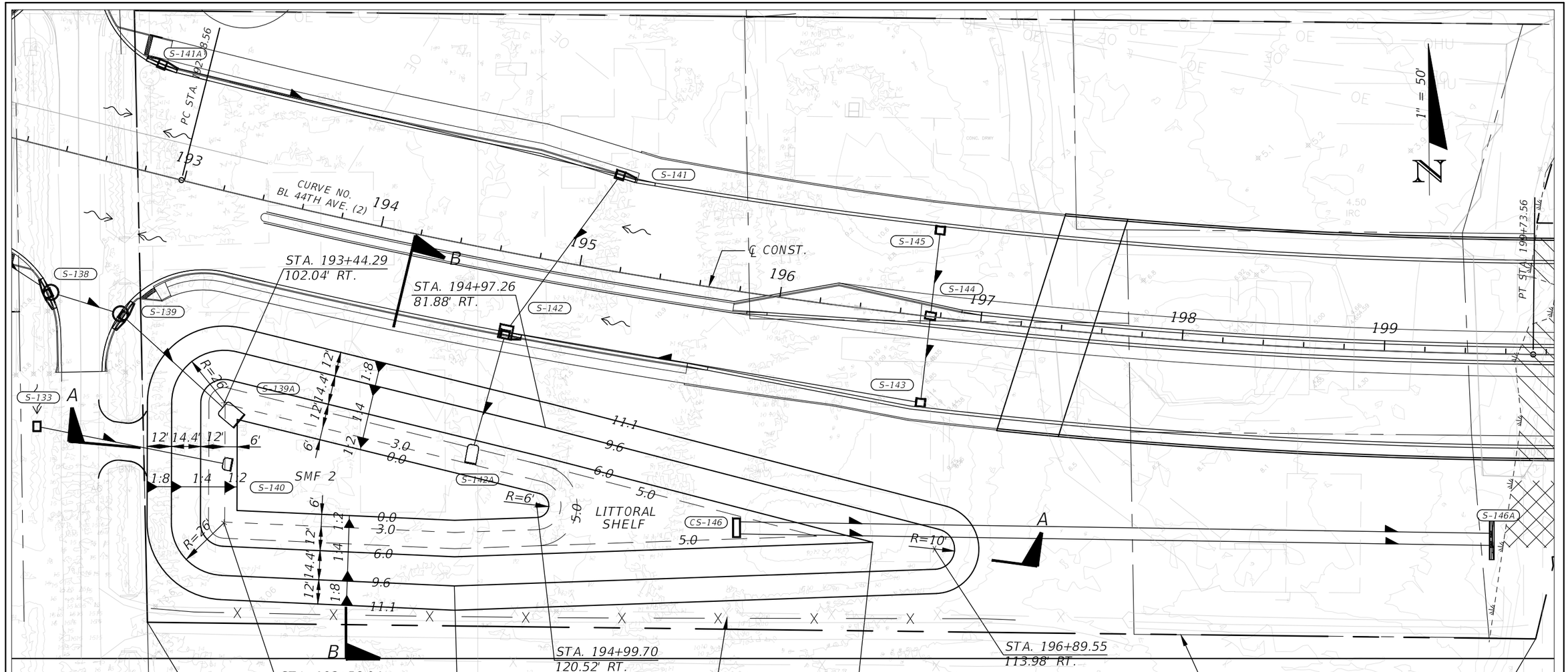
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

STORMWATER MANAGEMENT FACILITY 1 - TYPICALS

SHEET NO.: 134

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SMF 2 DATA

BERM EL. (BACK)	11.1
BERM EL. (FRONT)	9.6
HW (100 YR) EL.	8.6
HW (50 YR) EL.	8.2
HW (25 YR) EL.	8.2
WEIR EL.	7.5
CONTROL EL.	6.0
LITTORAL SHELF	5.0
BOT. EL.	0.0
SHWT EL.	6.0
AREA @ BERM EL. (BACK)	0.88 AC.
AREA @ BERM EL. (FRONT)	0.63 AC.
AREA @ WEIR EL.	0.47 AC.
AREA @ CONTROL EL.	0.35 AC.

NOTES:

1. STA/OFF REFERENCES ARE FROM ℄ CONST. 44th AVE. UNLESS OTHERWISE INDICATED.
2. FOR CONTROL STRUCTURE DETAIL, SEE DRAINAGE DETAILS (2).
3. FOR SOILS DATA, SEE SMF BORINGS SHEET.
4. LOW CROWN OF ROAD 191+35.09 EL. 15.55.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

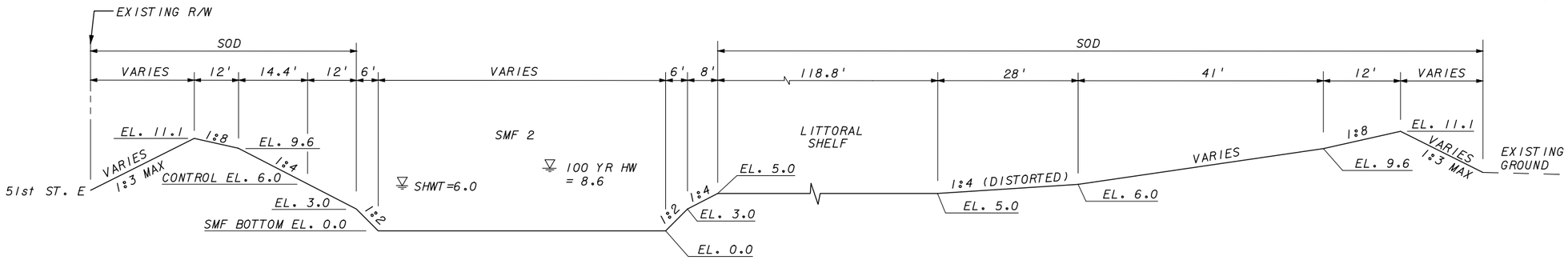
STORMWATER MANAGEMENT FACILITY 2

SHEET NO.: 135

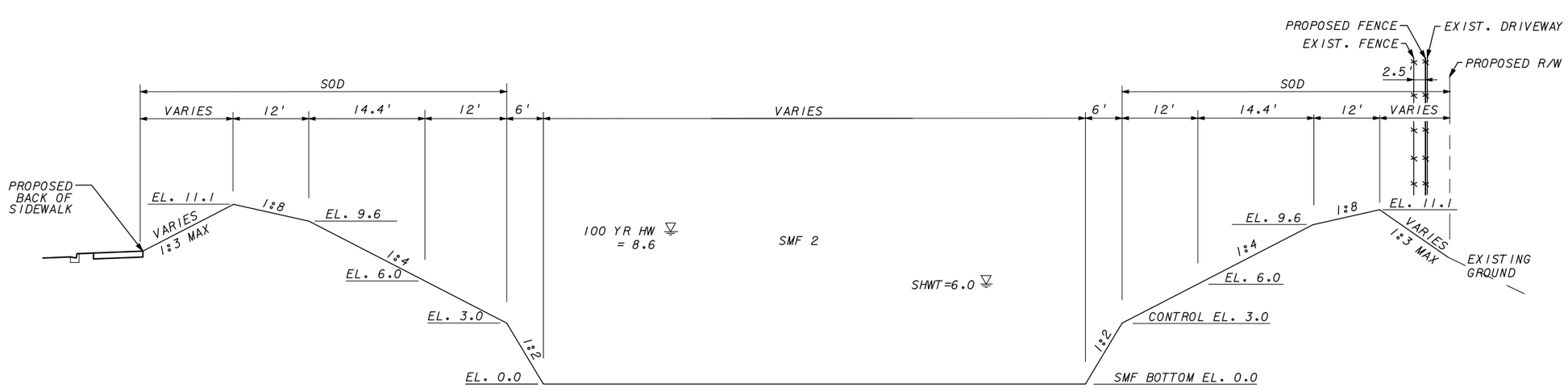
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SMF 2 DATA

BERM EL. (BACK)	11.1
BERM EL. (FRONT)	9.6
HW (100 YR) EL.	8.6
HW (50 YR) EL.	8.2
HW (25 YR) EL.	8.2
WEIR EL.	7.5
CONTROL EL.	6.0
LITTORAL SHELF	5.0
BOT. EL.	0.0
SHWT EL.	6.0
AREA @ BERM EL. (BACK)	0.88 AC.
AREA @ BERM EL. (FRONT)	0.63 AC.
AREA @ WEIR EL.	0.47 AC.
AREA @ CONTROL EL.	0.35 AC.



SECTION A-A
NTS



SECTION B-B
NTS

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

DATE: 02/2019
PROJECT NO.: 6086960

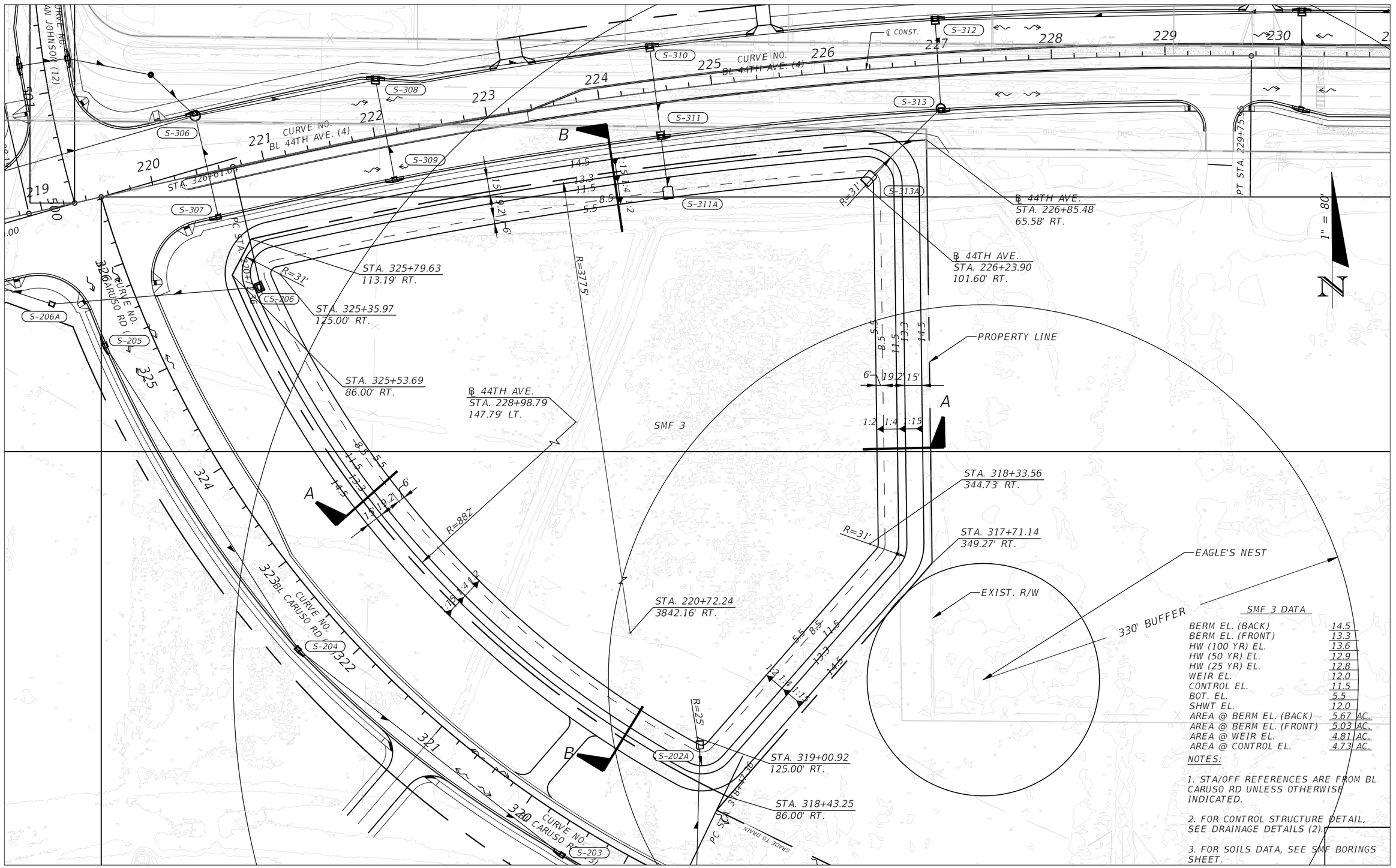
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

STORMWATER MANAGEMENT FACILITY 2 - TYPICALS

SHEET NO.: 136

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SMF 3 DATA

BERM EL. (BACK)	14.5
BERM EL. (FRONT)	13.3
HW (100 YR) EL.	13.6
HW (50 YR) EL.	12.9
HW (25 YR) EL.	12.8
WEIR EL.	12.0
CONTROL EL.	11.5
BOT. EL.	5.5
SHWT EL.	12.0
AREA @ BERM EL. (BACK)	5.67 AC.
AREA @ BERM EL. (FRONT)	5.03 AC.
AREA @ WEIR EL.	4.81 AC.
AREA @ CONTROL EL.	4.73 AC.

NOTES:

1. STA/OFF REFERENCES ARE FROM BL CARUSO RD UNLESS OTHERWISE INDICATED.
2. FOR CONTROL STRUCTURE DETAIL, SEE DRAINAGE DETAILS (2).
3. FOR SOILS DATA, SEE SMF BORINGS SHEET.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
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PUBLIC WORKS DEPARTMENT
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DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

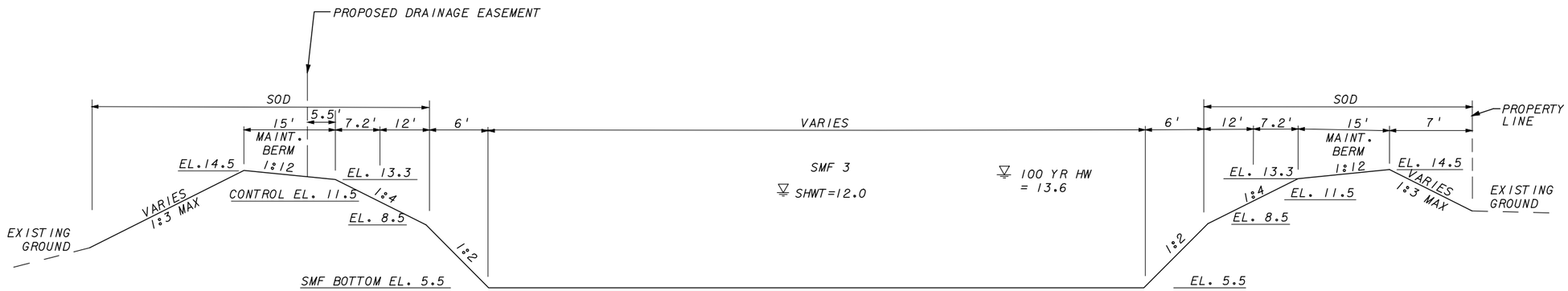
STORMWATER MANAGEMENT FACILITY 3

SHEET NO.: 137

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SMF 3 DATA

BERM EL. (BACK)	14.5
BERM EL. (FRONT)	13.3
HW (100 YR) EL.	13.6
HW (50 YR) EL.	12.9
HW (25 YR) EL.	12.8
WEIR EL.	12.0
CONTROL EL.	11.5
BOT. EL.	5.5
SHWT EL.	12.0
AREA @ BERM EL. (BACK)	5.67 AC.
AREA @ BERM EL. (FRONT)	5.03 AC.
AREA @ WEIR EL.	4.81 AC.
AREA @ CONTROL EL.	4.73 AC.



SECTION A-A
NTS



SECTION B-B
NTS

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
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JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

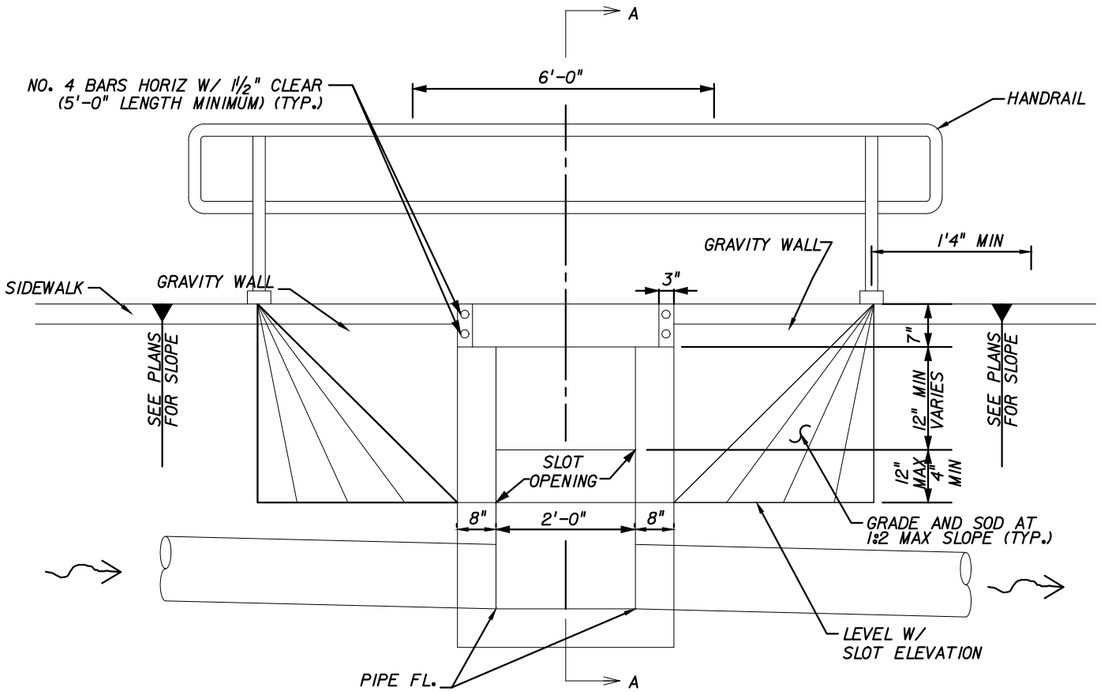
DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

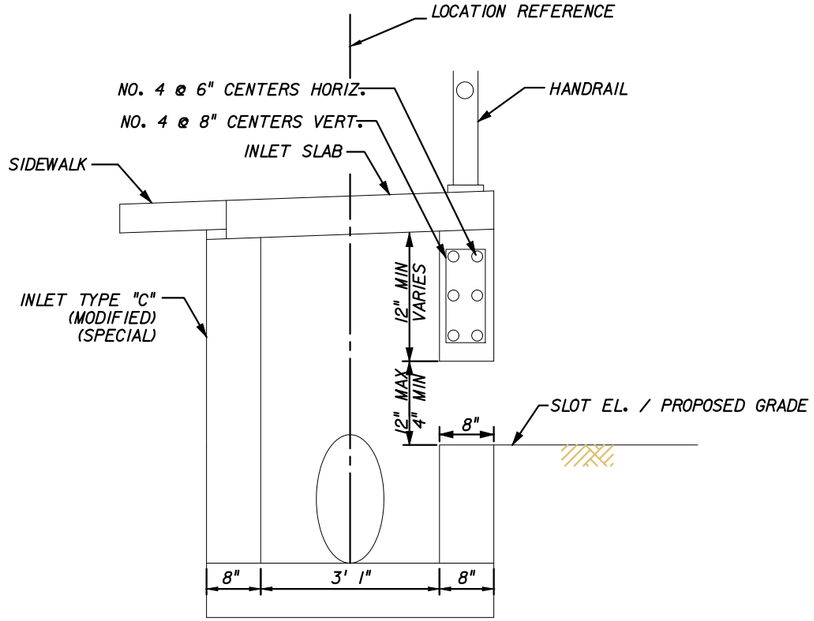
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

STORMWATER MANAGEMENT FACILITY 3 - TYPICALS

SHEET NO.: 138



FRONT ELEVATION
NTS



SECTION A-A
NTS

BACK OF SIDEWALK INLET MODIFIED SLOT
NTS

NOTES:

1. FOR ADDITIONAL DETAILS, SEE INDEX NO. 282.
2. INLETS ARE TO BE PAID FOR WITH ITEM 425-1-529 THROUGH 425-1-533 INLETS, DT BOT, TYPE C, MOD.
3. GRAVITY WALL TO BE PAID FOR WITH ITEM 400-0-11 CONCRETE CLASS NS, GRAVITY WALL.
4. HANDRAIL TO BE PAID FOR WITH ITEM 515-1-1 PIPE HANDRAIL, GUIDERAIL, STEEL.

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
P.E. NO. 86689
AECOM TECHNICAL SERVICES, INC.
7650 WEST COURTNEY CAMPBELL CAUSEWAY
TAMPA, FL 33607-1462
(813) 286-1711
CERTIFICATE OF AUTHORIZATION: 8115

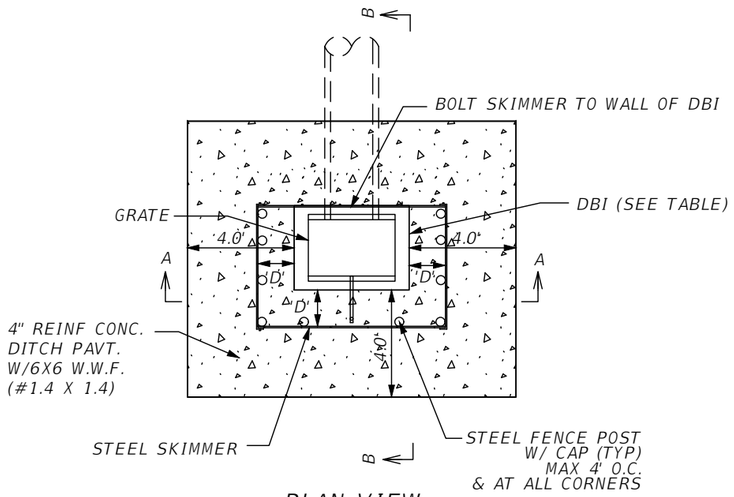
DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

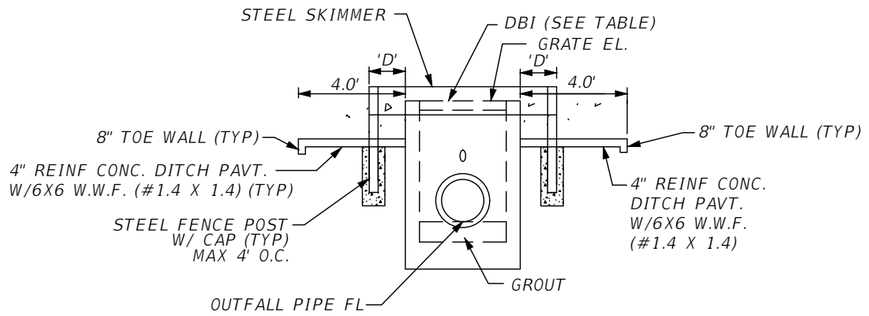
DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE DETAILS (1)

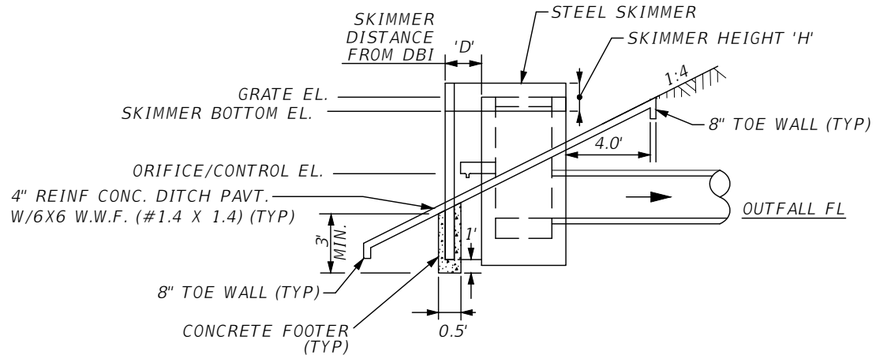
SHEET NO.: 139



PLAN VIEW
NTS



SECTION A-A
NTS

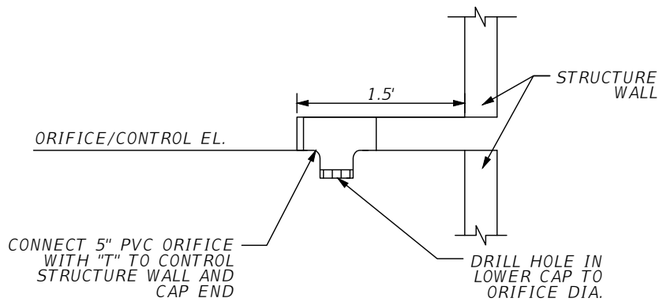


SECTION B-B
NTS

STORMWATER MANAGEMENT FACILITY OUTFALL STRUCTURES

SMF NO.	STRUCT. NO.	DBI TYPE	℄	CONTROL STRUCTURE		GRATE EL.	ORIFICE CONTROL EL.	ORIFICE DIA. (IN)	BOTTOM OF SKIMMER EL.	SKIMMER HEIGHT (IN)	SKIMMER DISTANCE FROM DBI 'D' (FT)	OUTFALL PIPE SIZE (IN)	OUTFALL PIPE FLOWLINE EL.	DESIGN STORM	DHW	POND BOTTOM EL.	TOB EL.
				STATION	OFFSET												
1	CS-106A	H (2-GRATE)	44TH AVE.	170+30.80	111.45' LT	13.60	12.1	3.0	11.9	22	2	42	8.3	50 YR	14.2	6.1	15.4
2	CS-146	H (4-GRATE)	44TH AVE.	195+95.00	115.82' RT	7.50	6.0	3.0	5.8	22	2.5	2-36	3.0	50 YR	8.2	0.0	9.6
3	CS-206	E	CARUSO RD.	325+32.40	103.75' RT	12.00	11.5	4.5	11.3	12	2.5	24	5.8	25 YR	12.8	5.5	13.5

NOTES:
1. FOR ADDITIONAL DETAILS OF TYPE H INLET, SEE INDEX 232.
2. FOR ADDITIONAL DETAILS FOR THE SKIMMERS, SEE INDEX 240.
3. GRATE NOT SHOWN ON PLAN VIEW FOR CLARITY.
4. BOLTS, WASHERS AND NUTS FOR SKIMMER ATTACHMENT SHALL BE STAINLESS STEEL.
5. SKIMMER ATTACHMENT SHALL BE AS DETAILED IN INDEX NO. 240, AND AS MODIFIED:
   A. DIMENSIONS SHALL BE AS IN TABLE
   B. THE 3/8" DIAMETER BOLTS FOR THE ATTACHMENT OF THE FORNT PANEL TO THE SIDE PANEL SHALL BE 4" LONG AND SHALL ATTACH TO THE FENCE CORNER POSTS
6. SEE INDEX 802 FOR DETAILS OF FENCE CORNER POST CONSTRUCTION.
7. COST OF SKIMMER, POSTS, FASTENERS, GROUT AND CONCRETE DITCH PAVEMENT TO BE INCLUDED IN COST OF INLET (MODIFIED).
8. THE CONCRETE DITCH PAVEMENT SHALL BE MOUNDED OVER THE OUTFALL PIPE TO PROVIDE 3" (MIN) COVER.
9. CONTRACTOR TO PROVIDE DETAIL FOR CONNECTION BETWEEN STEEL POST AND SKIMMER WITH SHOP DRAWING.



ORIFICE DETAIL
NTS

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: MAH
DRAWN BY: JPB
CHECKED BY: CDC

JILLIAN P. BERBAKOV, P.E.
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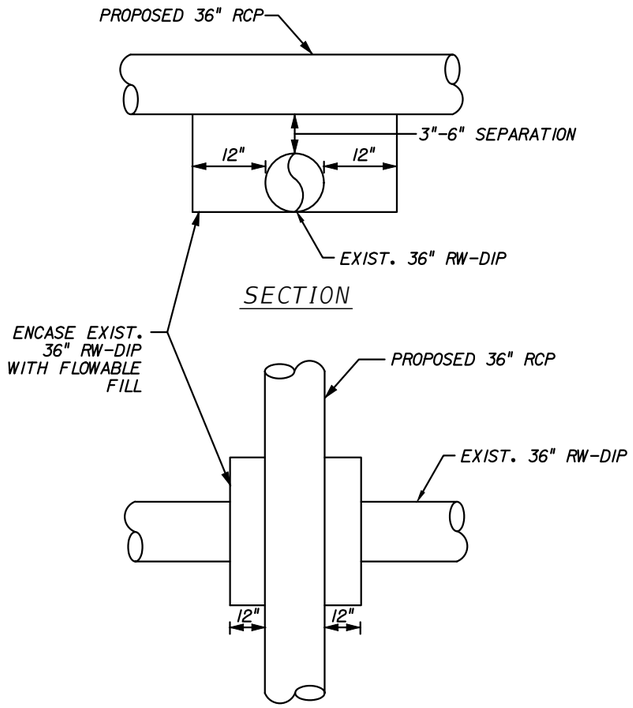
DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.
FL. LICENSE NO.: 86689

DRAINAGE DETAILS (2)

SHEET NO.: 140

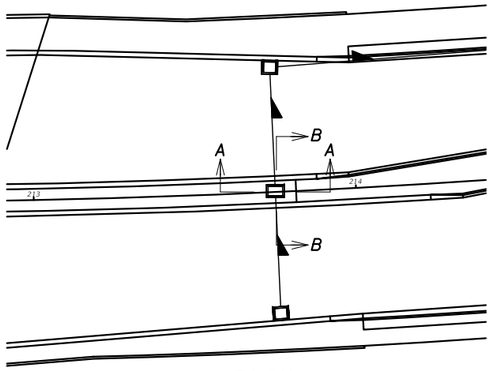


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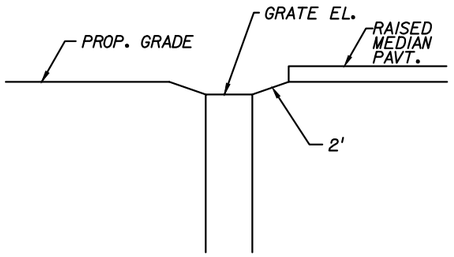
PLAN

DRAINAGE PIPE CROSSING OVER DIP WITH REDUCED SEPARATION

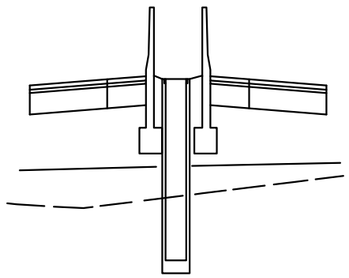
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PLAN



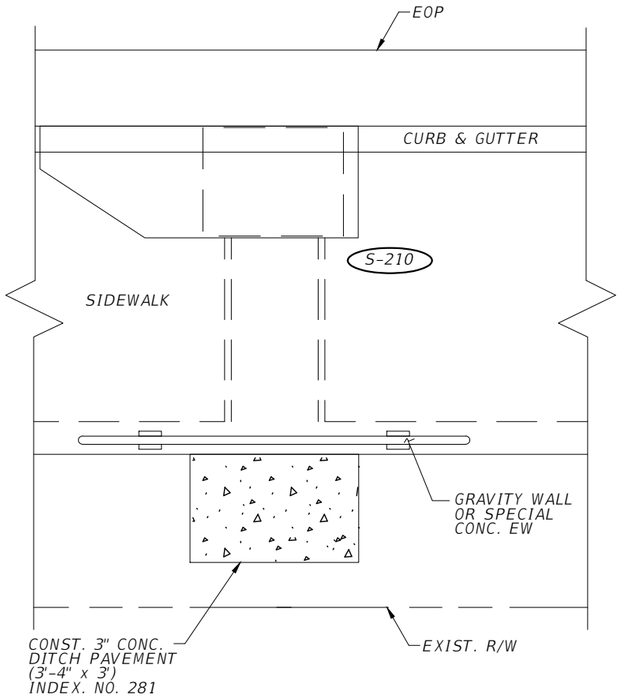
SECTION A-A



SECTION B-B

MEDIAN DETAIL
S-144, STA. 196+75
S-300A, STA. 213+75.00

NTS



GRAVITY WALL PENETRATION DETAIL

NTS

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY: JPB
CHECKED BY: CDC

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CERTIFICATE OF AUTHORIZATION: 8115

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PROJECT NO.: 6086960

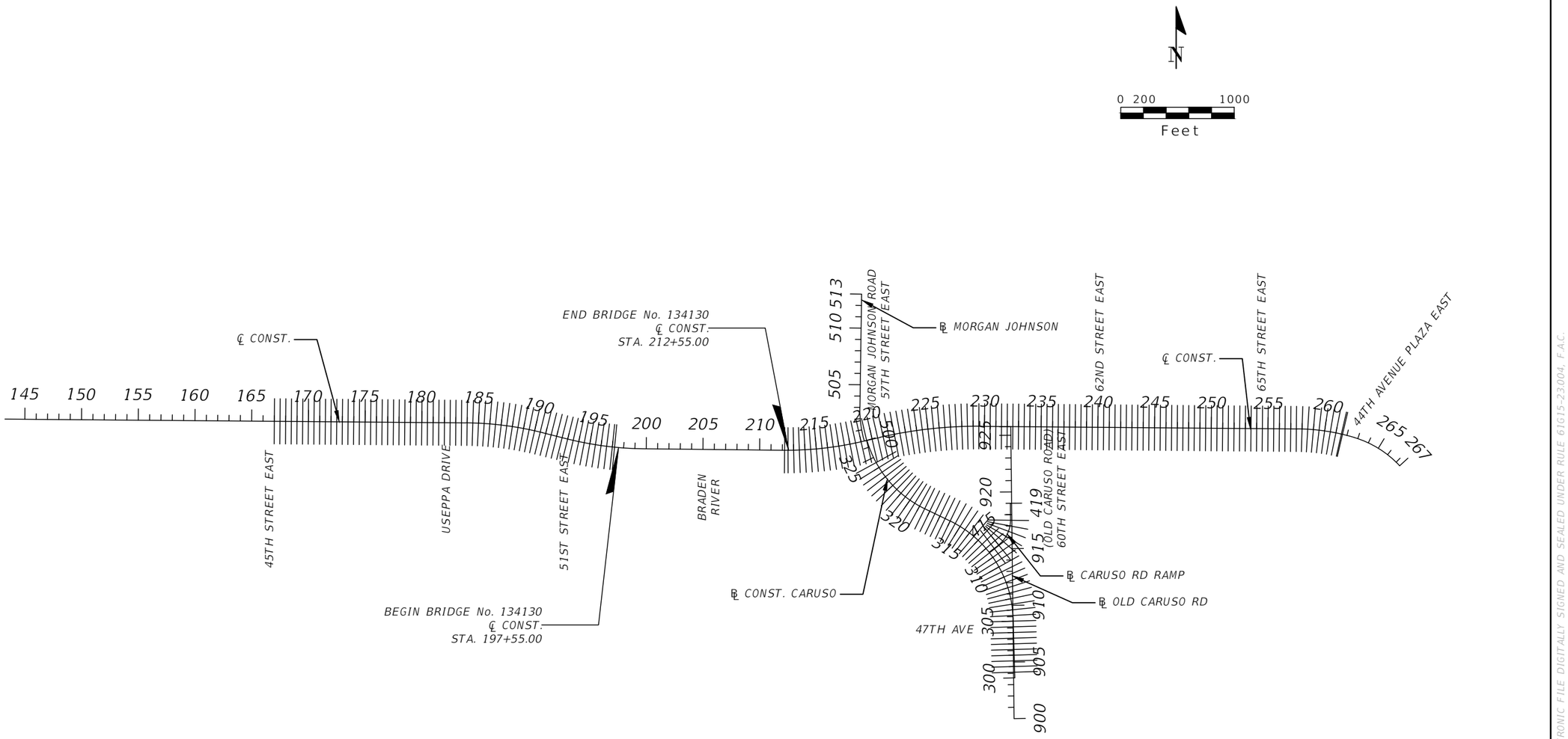
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: JILLIAN P. BERBAKOV, P.E.

FL. LICENSE NO.: 86689

DRAINAGE DETAILS (3)

SHEET NO.: 141



No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION PATTERN

SHEET NO.: 142

Mitch Johnson 2/7/2019 1:49:21 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02_Pattern.dwg

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MANATEE COUNTY, FLORIDA
44th Avenue East Extension
PROJECT NO. 6086960

DATE OF SURVEY: 12/15/2015 - 9/16/2016
SURVEY MADE BY: AECOM TECHNICAL SERVICES / UNIVERSAL ENGINEERING SCIENCES, INC.
SUBMITTED BY: KEITH Q. GIANG, P. E.

ROAD: 44TH AVENUE
COUNTY: MANATEE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

	ORGANIC AND MOISTURE CONTENT			SIEVE ANALYSIS % PASSING							ATTERBERG LIMITS (%)					Corrosion Test Results				
STRATUM NO.	NO. OF TESTS	% ORGANIC	MOISTURE CONTENT	NO. OF TESTS	#4 MESH	#8 MESH	#10 MESH	#40 MESH	#60 MESH	#200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	21	--	25.9 - 11.7	21	100 - 97	100 - 96	100 - 96	97 - 87	88 - 50	7.2 - 1	--	--	--	A-3	GRAY TO BROWN FINE SAND w/ trace SILT & SHELL	3	20800 - 4610	11.8 - 3.64	29.5 - 3.49	8.31 - 7.25
2	5	--	44.9 - 17.5	5	100	100	100	95	84	25.1 - 10.3	3	NP	NP	A-3 / A-2-4	GRAY TO DARK BROWN FINE SAND w some SILT and CLAY					
3	1	--	29.5	1	99	96	95	87	76	29.5	1	27.0	4.3	A-2-4 / A-2-6	GRAY to DARK BROWN FINE SAND to SILTY, CLAYEY SAND					
4	2	--	37.9 - 24.5	2	--	--	--	--	--	36.5 - 35.8	--	--	--	A-2-6 / A-2-7	GRAY TO BROWN CLAYEY FINE SAND					
5	2	--	72.2 - 30.4	2	100	100	100	98	97	89 -68.1	--	--	--	A-4 / A-5	GRAY TO BROWN SANDY SILT TO SILT, CLAYEY SILT					
6	6	--	93.1 - 23	6	100	100	100	98	97	90 - 59.2	3	39 - 25.5	14 - 9	A-7-5	GRAY TO BROWN SANDY CLAY					
7	5	--	150 - 33	5	--	--	--	--	--	98.8 - 56	4	299.1 - 54.6	263 - 36.4	A-7-6	GRAY TO OLIVE TO GREEN TO DARK BROWN SILTY CLAY					
8	1	13.6	45	2	100	100	100	96	75	10 - 5	--	--	--	A-8	DARK BROWN TO BLACK SAND w/ SILT, ROOTS AND ORGANICS	1	750	6.11	1717	4.72
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	LIMEROCK BASE					
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ASPHALT PAVEMENT					

EMBANKMENT AND SUBGRADE MATERIAL

▼ -- WATER TABLE ENCOUNTERED

GNE -- GROUND WATER NOT ENCOUNTERED

1. THE MATERIAL FROM STRATA NUMBERS **1** AND **2** APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.
2. THE MATERIAL FROM STRATA NUMBERS **3** AND **4** APPEARS SATIFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. HOWEVER, THESE MATERIADL ARE LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM NUMBER **8** SHALL BE TREATED AS MUCK (A-8 MATERIAL) AND SHALL BE REMOVED WITHIN THE LIMITS OF THE HATCHED AREAS SHOWN ON THE ROADWAY CROSS SECTIONS.
4. THE MATERIAL FROM STRATUM NUMBER **5** IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH INDEX 500. IT MAY BE PLACED ABOVE THE EXISTING WATER LEVEL (AT THE TIME OF CONSTRUCTION) TO WITHIN 4 FEET OF THE PROPOSED BASE. IT SHOULD BE PLACED UNIFORMLY IN THE LOWER PORTION OF THE EMBANKMENT FOR SOME DISTANCE ALONG THE PROJECT RATHER THAN FULL-DEPTH FOR SHORTER DISTANCES.
5. THE MATERIAL FROM STRATA NUMBERS **6** AND **7** IS HIGH PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH INDEX 500. IT MAY BE USED WITHIN THE PROJECT LIMITS AS INDICATED IN INDEX 505 ONLY WHEN EXCAVATED WITHIN THE PROJECT LIMITS AND IS NOT TO BE USED WHEN OBTAINED FROM OUTSIDE THE PROJECT LIMITS.
6. THE MATERIAL FROM STRATUM NUMBER **9** IS ASPHALT CONCRETE.
7. THE MATERIAL FROM STRATUM NUMBER **10** IS LIMEROCK BASE.
8. IN ADDITION TO SOILS DATA ON THE ROADWAY CROSS SECTIONS, PLEASE REFER TO CORE BORING SHEETS FOR ADDITIONAL SOILS INFORMATION IN SIGNIFICANT FILL AREAS.
9. OTHER ISOLATED AREAS OF ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL MAY EXIST BETWEEN BORING LOCATIONS. IF ADDITIONAL UNSUITABLE MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THEY SHOULD BE REMOVED AND REPLACED IN ACCORDANCE WITH INDEX 500.
10. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: KEITH GIANG
DRAWN BY: IRA ZICHLIN
CHECKED BY: KEITH GIANG

AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462
C.A. No. 8115

DATE: FEBRUARY 2018
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

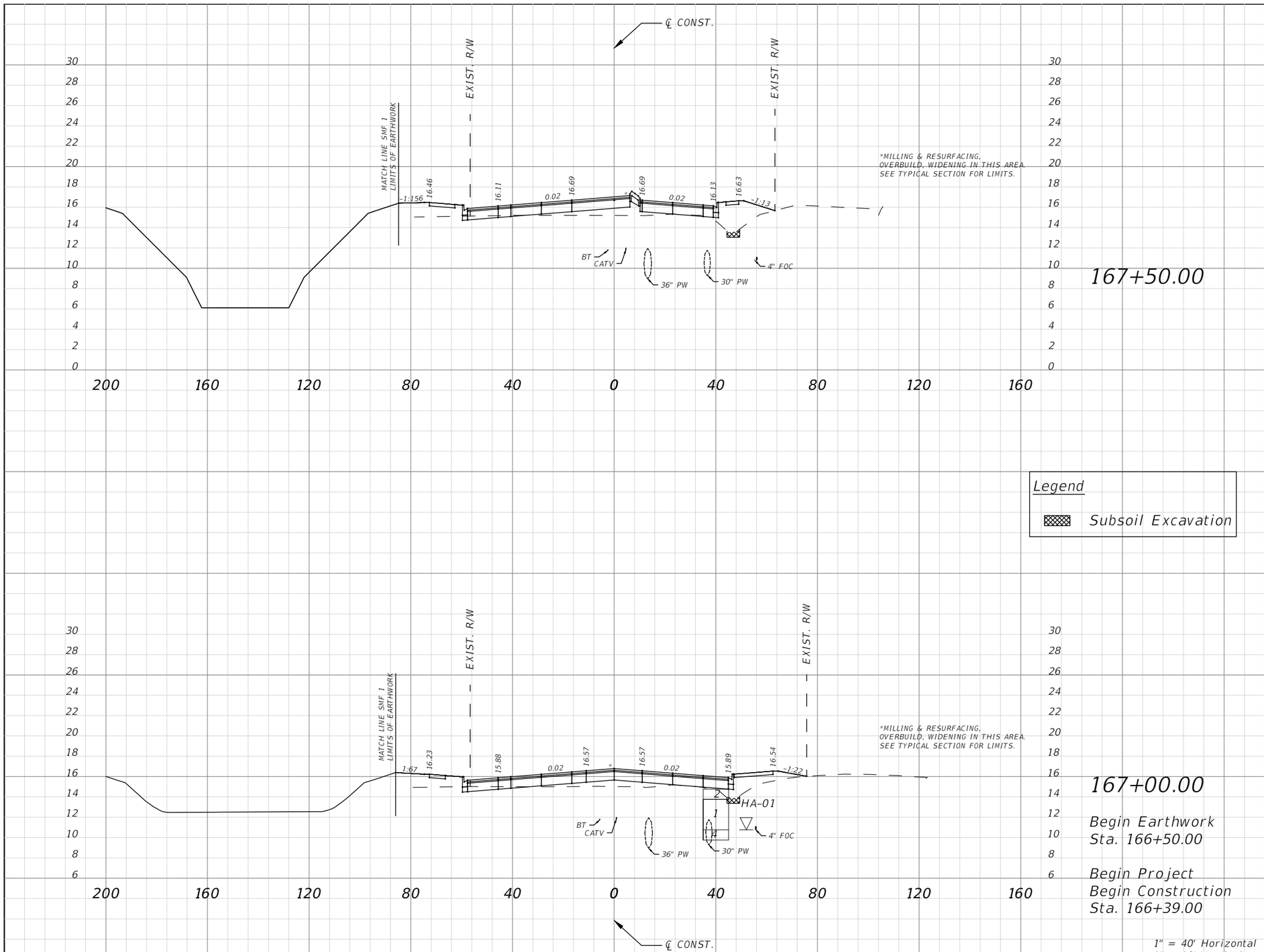
DESIGN ENGINEER: KEITH Q. GIANG, P.E.
FL. LICENSE NO.: 49510

SHEET TITLE: SOIL SURVEY SUMMARY SHEET
PROJECT NAME: 44th AVENUE BRIDGE OVER BRADEN RIVER

SHEET NO.: 143

FILE NAME: S:\Projects_GeoServDocs\Manatee County\44th Ave Over Braden River\9 - PROJECT DRAWINGS_44TH AVE AUGER BORING LOGS 1 OF 2.dwg LAYOUT NAME: SHEET 1 PLOTTED: Friday, February 16, 2018 - 3:05pm USER: ira.zichlin

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1" = 40' Horizontal
1" = 10' Vertical

Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
2.70	5.04	5.73	12.00	85.79	145.23
2.75	2.54	7.22	6.69	71.06	65.80

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

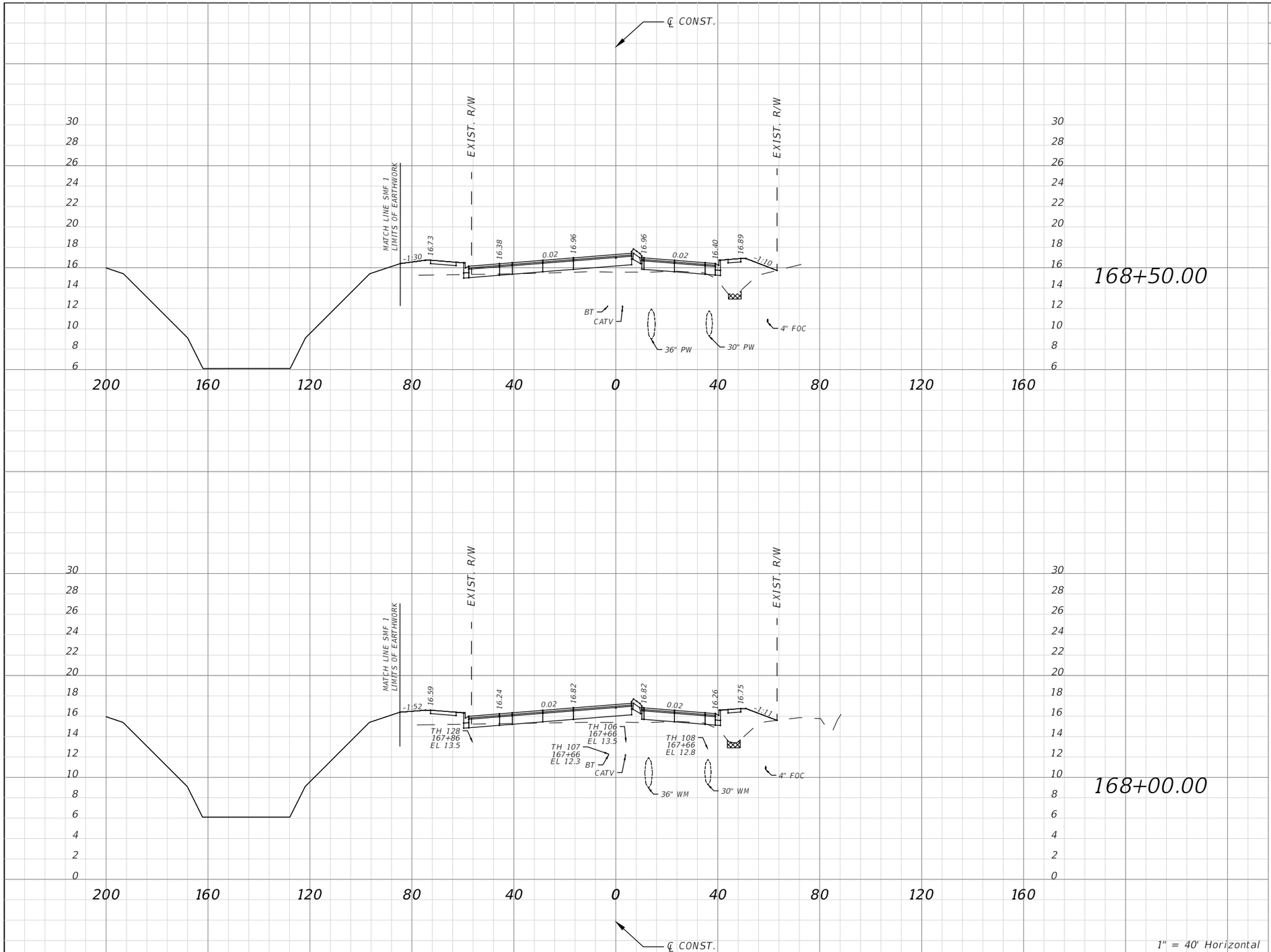
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (1)

SHEET NO.
144

Mitch Johnson
2/6/2019 9:51:45 AM
J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
2.75	5.18	5.17	10.15	85.29	155.92
2.85	5.13	5.79	10.67	83.10	156.38

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
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TAMPA, FL 33634
(813)749-0823
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

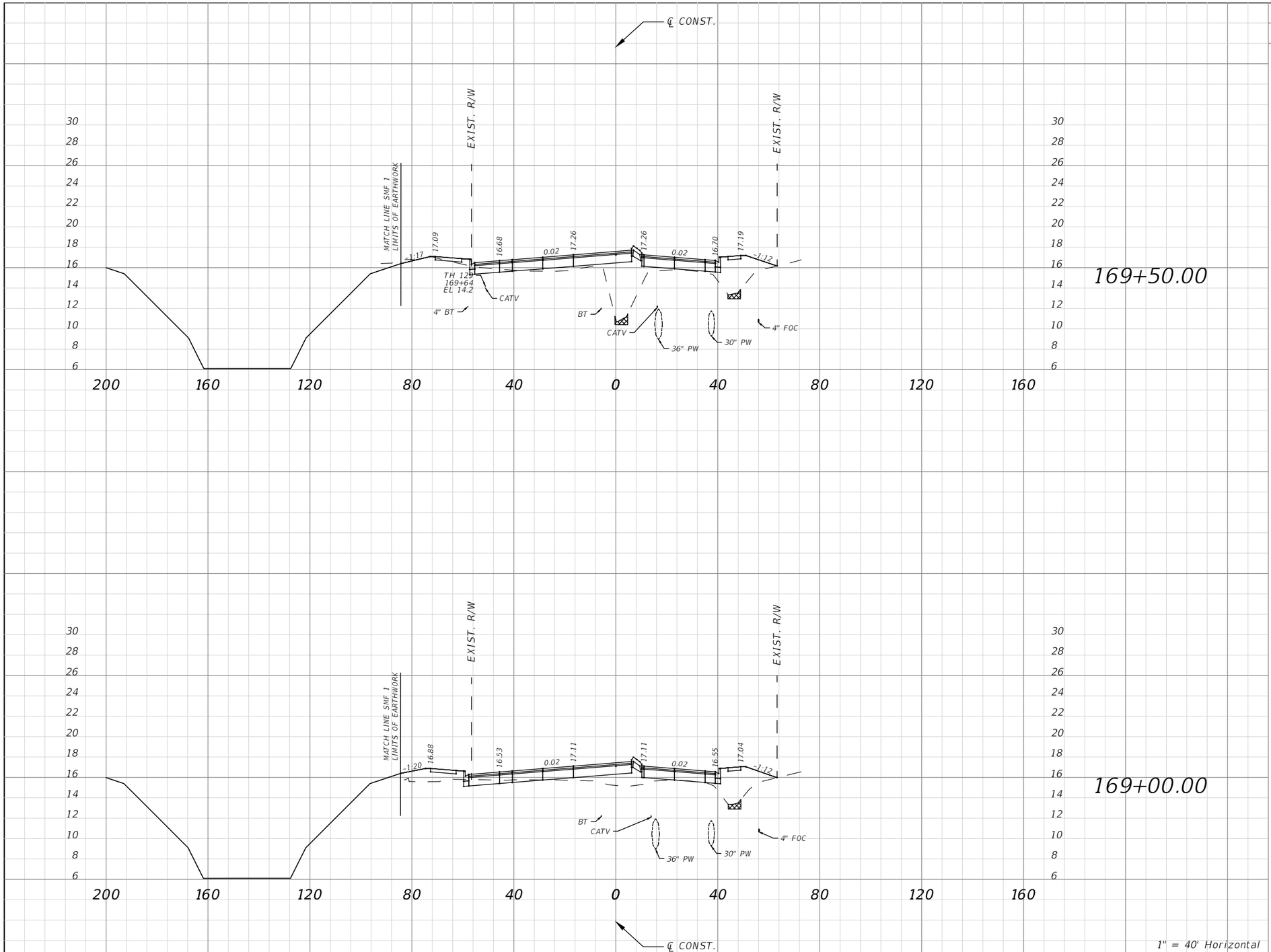
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (2)

SHEET NO.
145

Mitch Johnson 2/6/2019 9:52:39 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.41	7.57	9.46	18.52	126.79	205.57
2.76	5.11	10.55	14.56	95.23	167.15

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

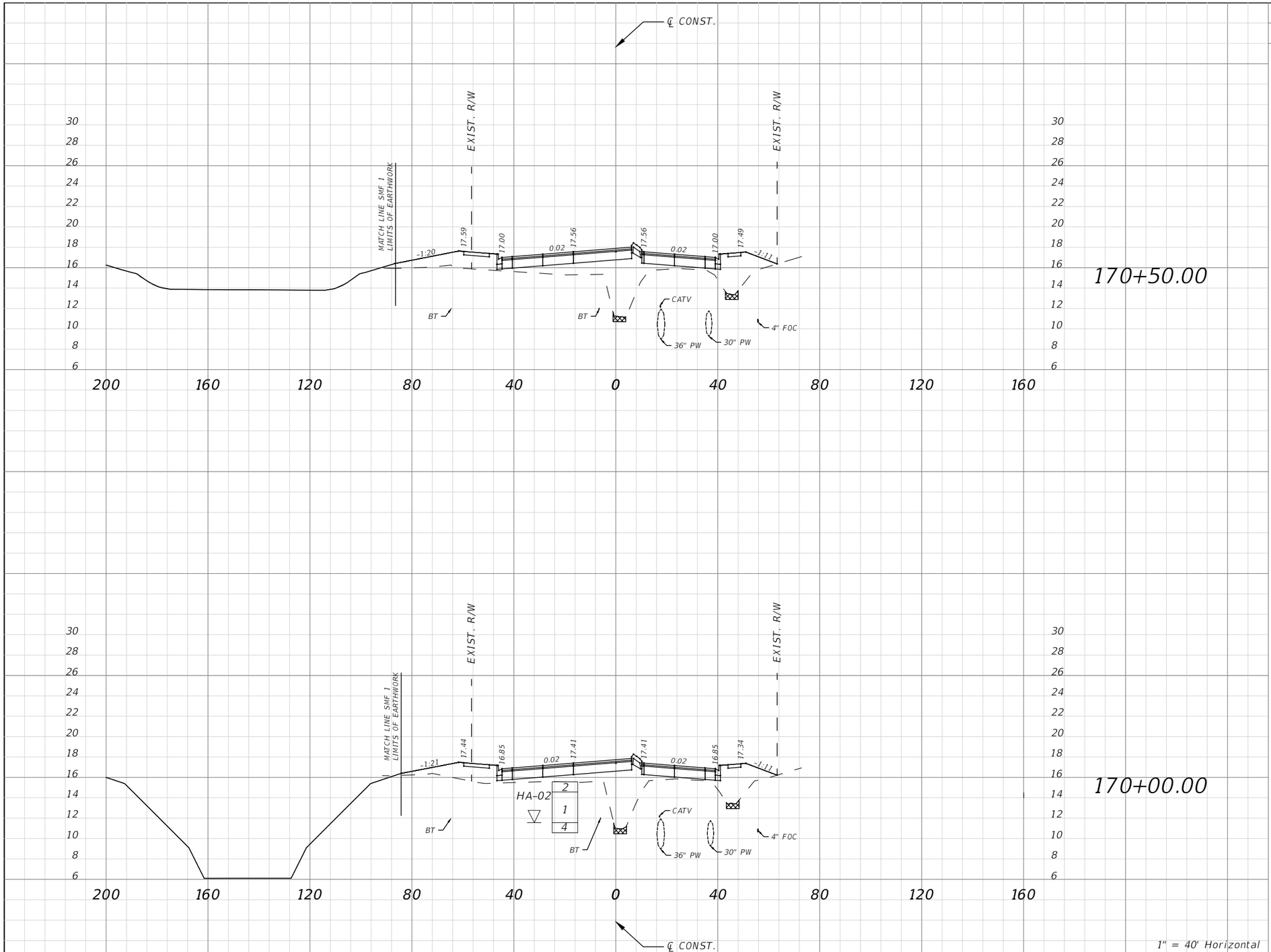
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (3)

SHEET NO.
146

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.50	5.06	0.00	0.02	208.47	178.11
5.51	10.11	0.00	8.76	184.46	288.19

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
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HARDESTY & HANOVER, LLC
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(813)749-0823
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ENGINEERING SERVICES
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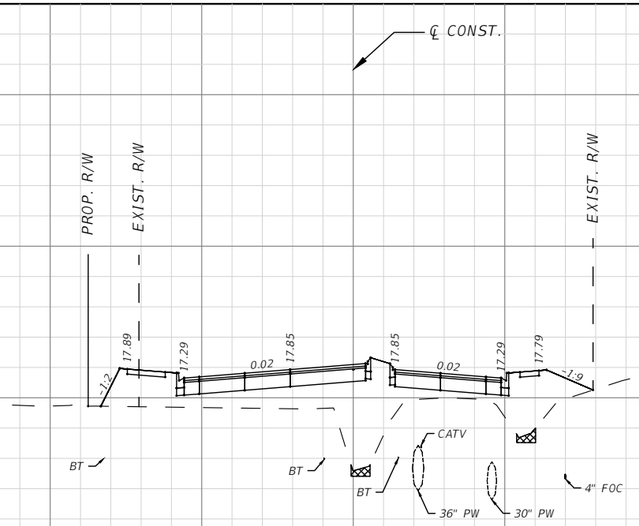
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (4)

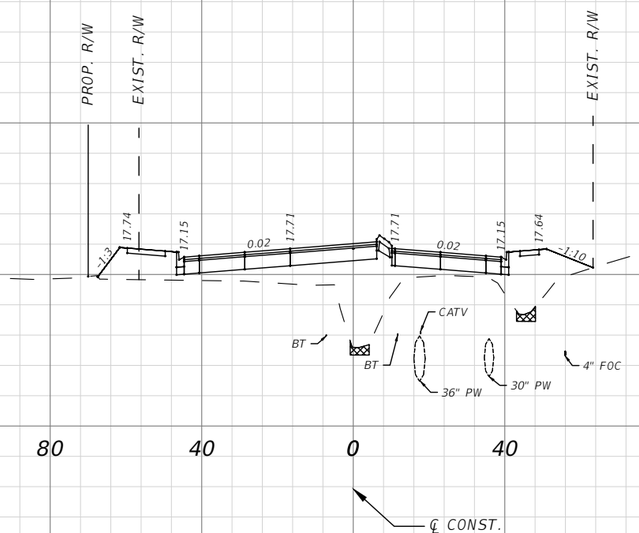
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147

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171+50.00



171+00.00

Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.33	10.28	0.00	0.00	238.11	412.84
5.76	10.43	0.00	0.00	207.75	385.39

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

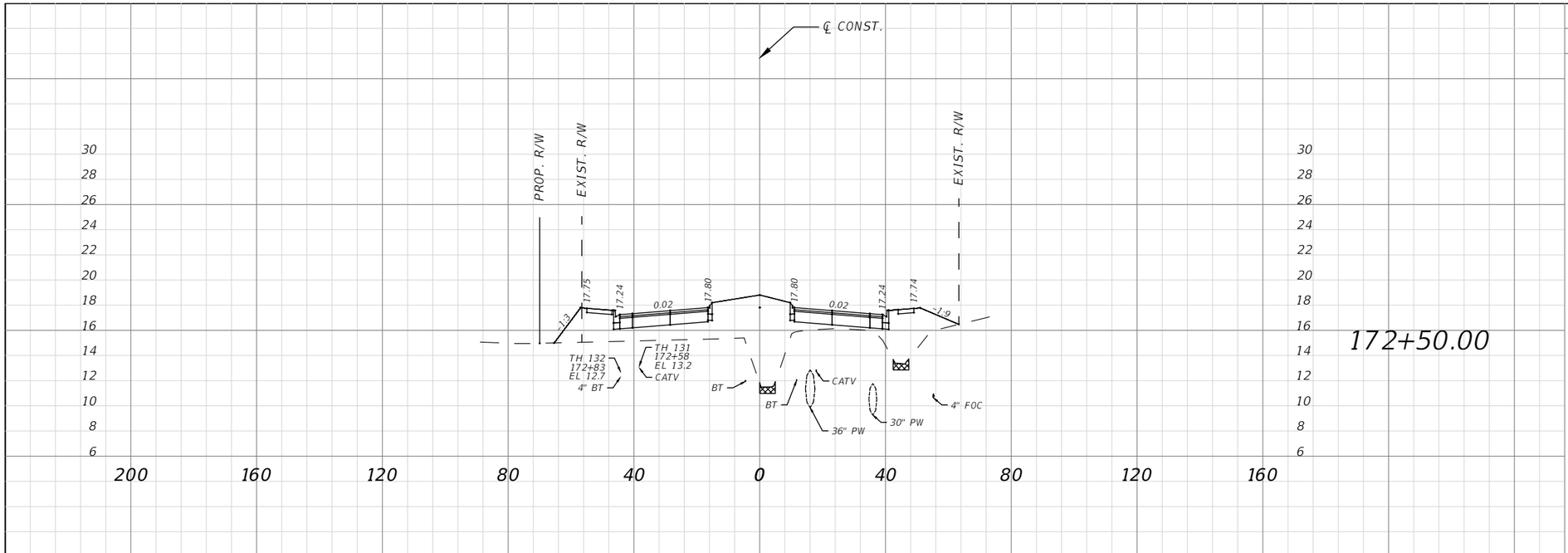
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

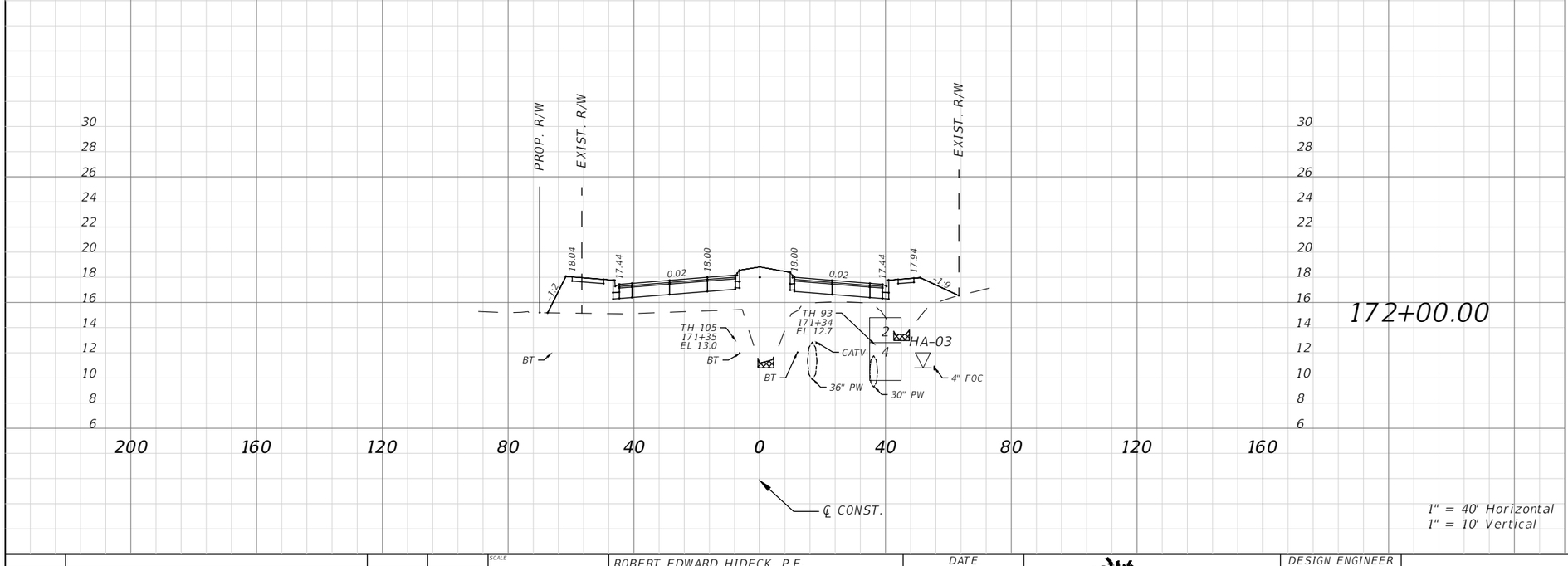
CROSS SECTION (5)

SHEET NO.
148

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.61	10.13	0.00	0.00	253.68	491.23
5.34	9.88	0.00	0.00	276.84	476.81

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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1022 26th Avenue East, Bradenton, FL 34208

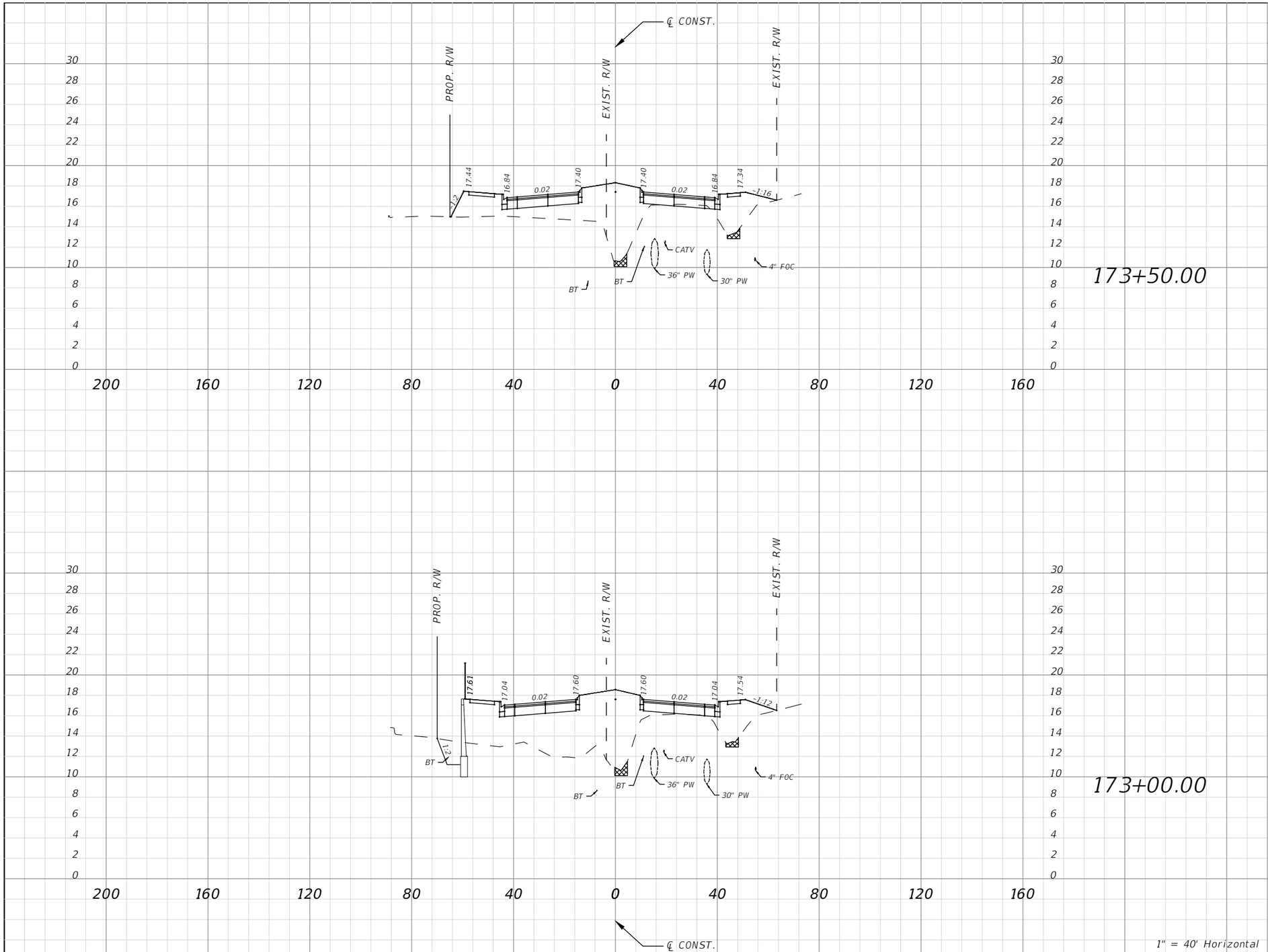
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CROSS SECTION (6)

SHEET NO.
149

Mitch Johnson 2/6/2019 9:56:15 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
6.20	11.77	3.54	3.49	245.37	570.84
6.51	21.86	0.23	0.73	371.14	425.25

No.	REVISIONS	DATE	BY

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1022 26th Avenue East, Bradenton, FL 34208

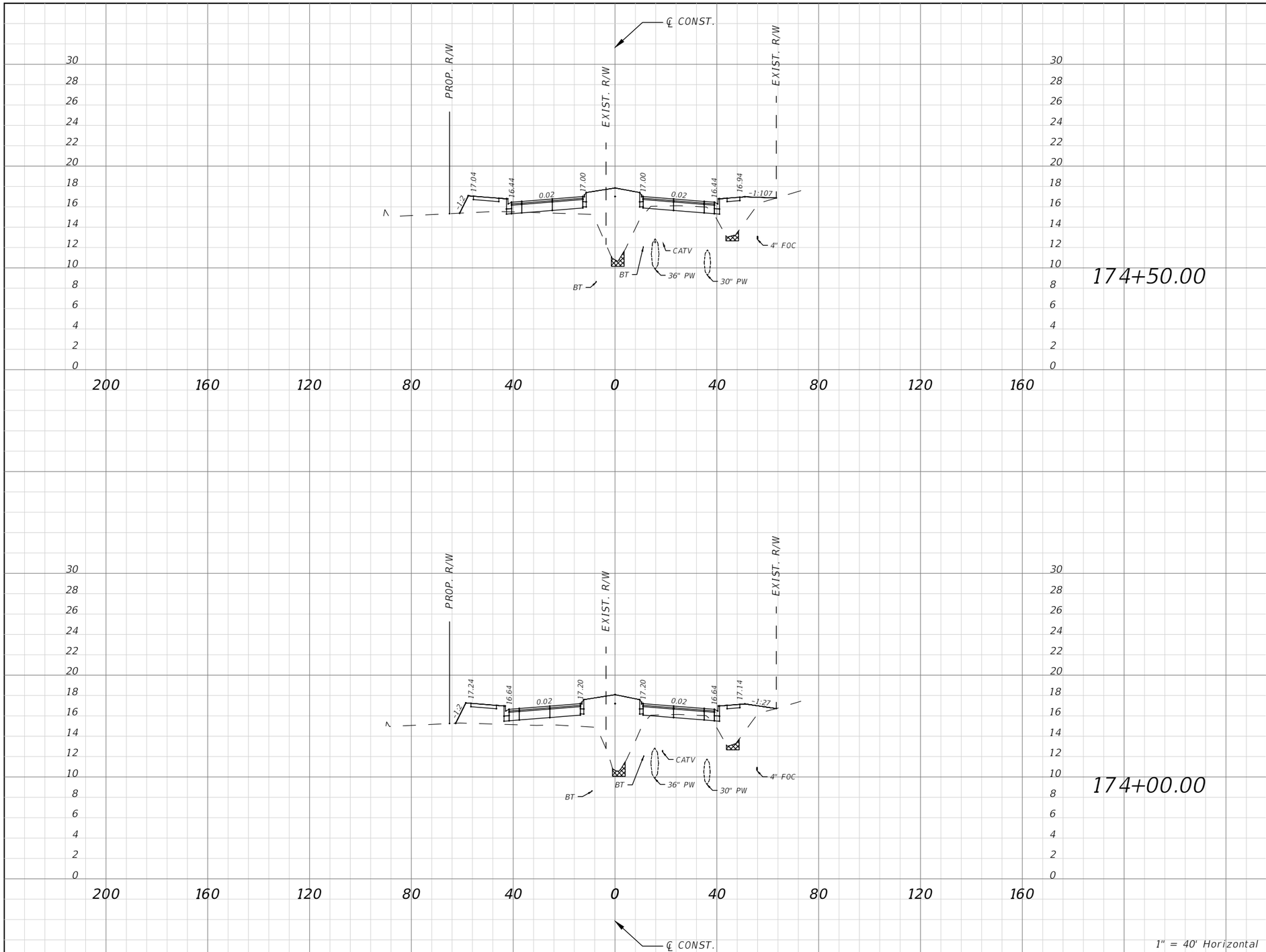
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CROSS SECTION (7)

SHEET NO.
150

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
6.84	12.40	12.02	17.56	172.51	352.80
6.55	11.81	6.94	9.70	208.51	420.27

No.	REVISIONS	DATE	BY

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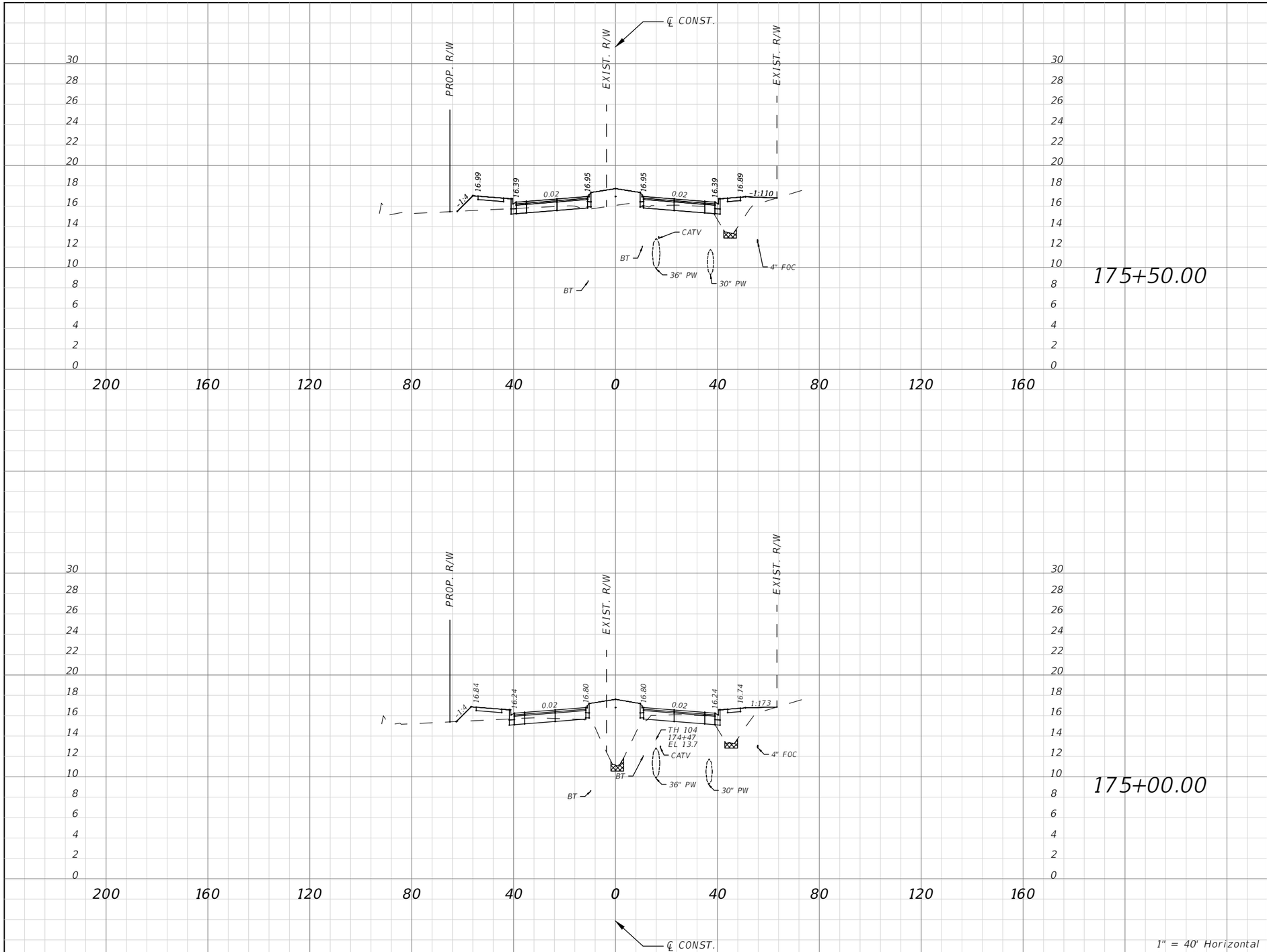
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FL. LICENSE NO.
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CROSS SECTION (8)

SHEET NO.
151

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
2.67	8.36	24.07	46.73	85.20	210.00
6.36	12.23	26.40	35.58	141.60	290.84

No.	REVISIONS	DATE	BY

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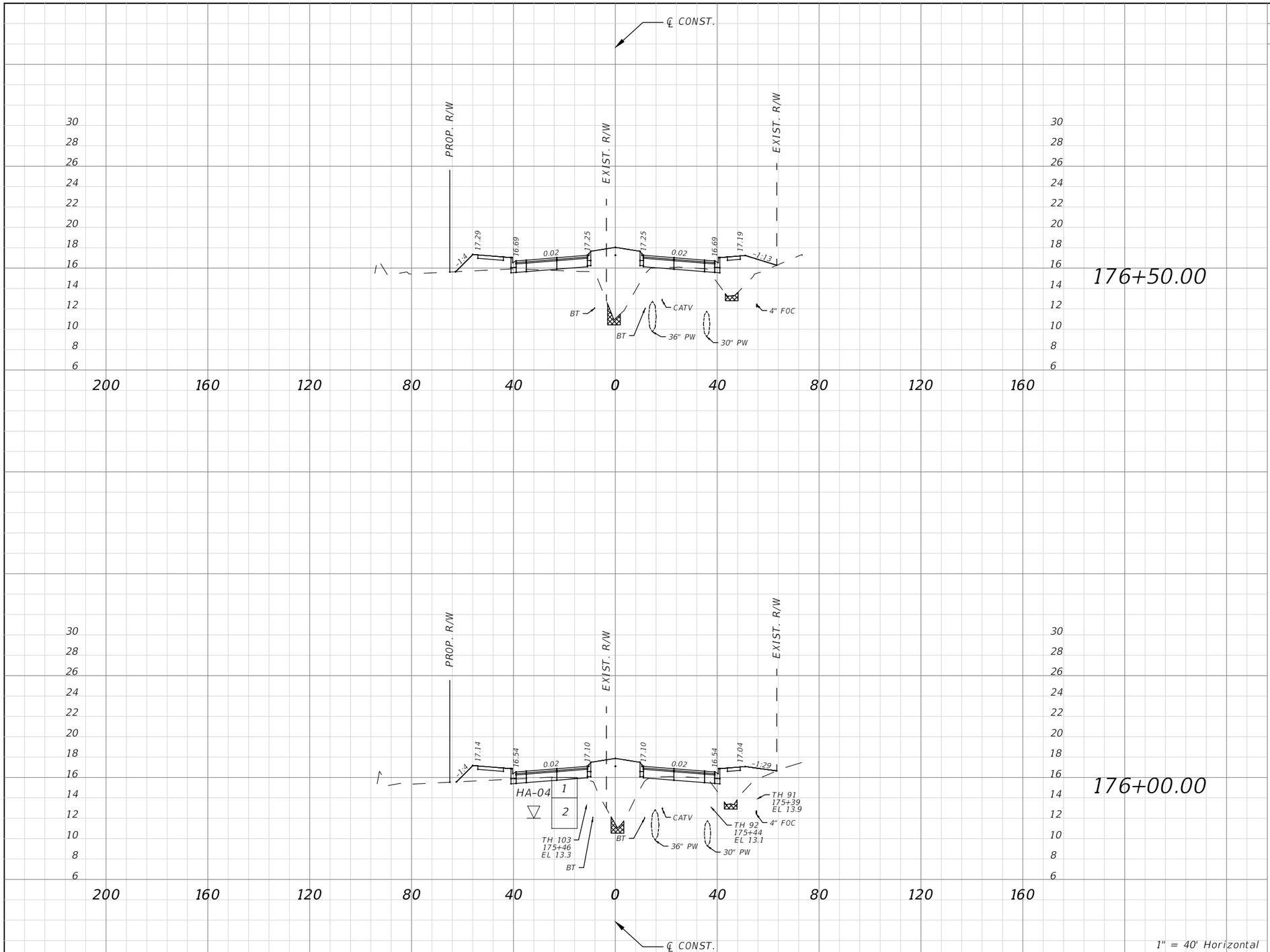
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CROSS SECTION (9)

SHEET NO.
152

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
7.92	14.14	6.79	21.40	173.90	304.67
7.35	21.16	16.33	23.74	155.15	140.61

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
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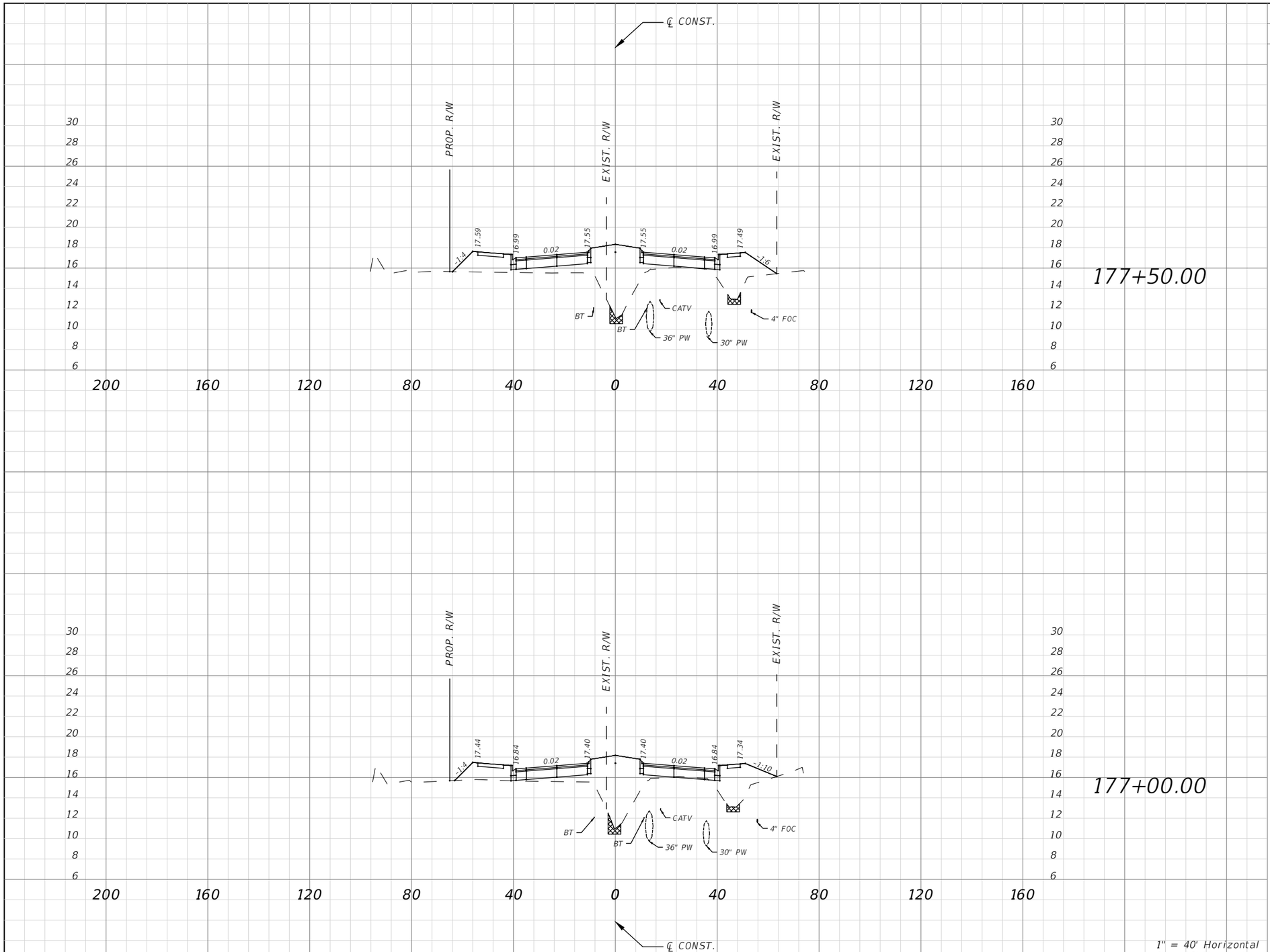
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CROSS SECTION (10)

SHEET NO.
153

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
7.79	14.46	0.00	1.30	212.68	375.24
7.83	14.58	1.41	7.59	192.58	339.33

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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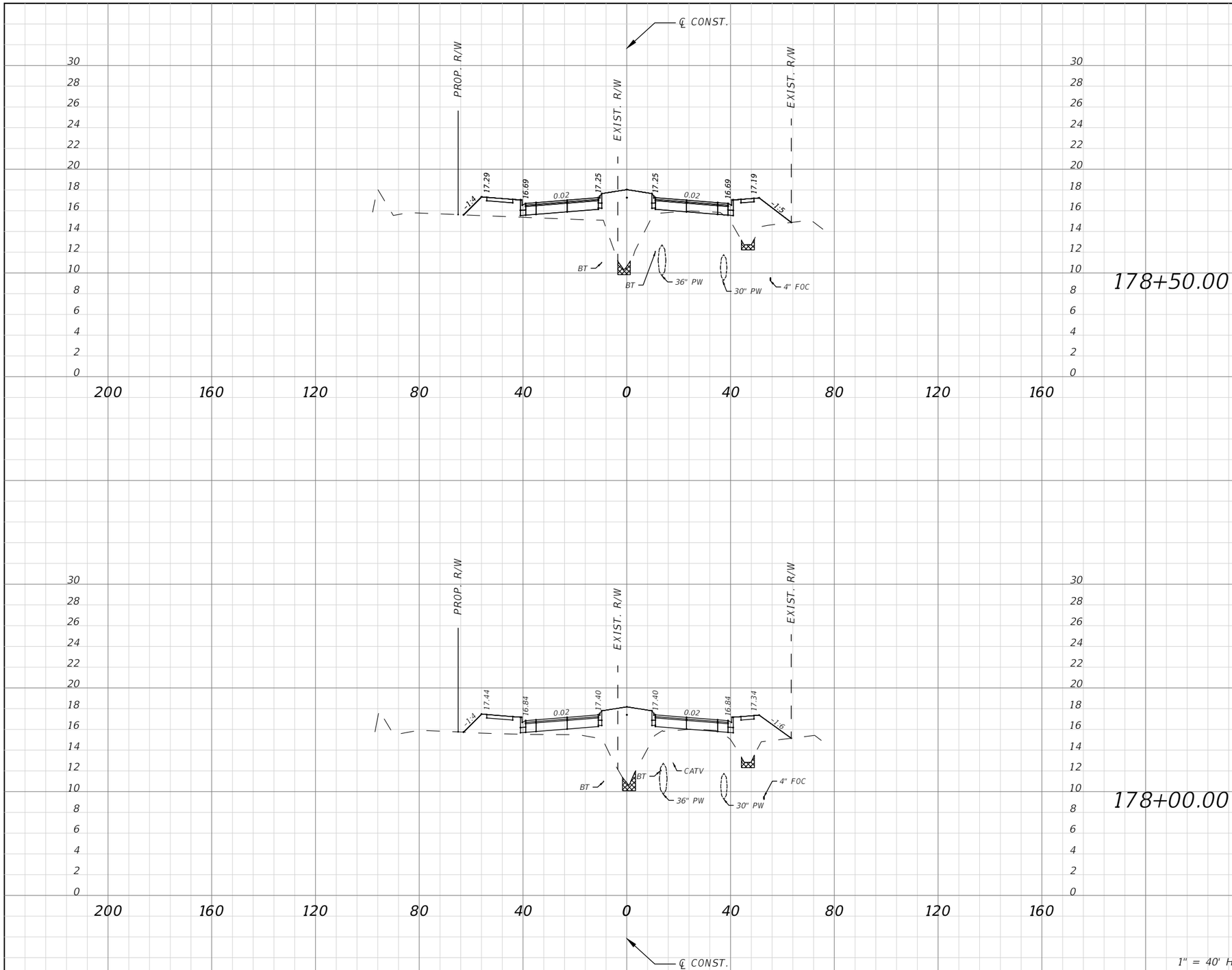
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CROSS SECTION (11)

SHEET NO.
154

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
7.47	14.78	2.17	2.69	207.66	384.84
8.50	12.12	0.73	0.48	207.97	101.31

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

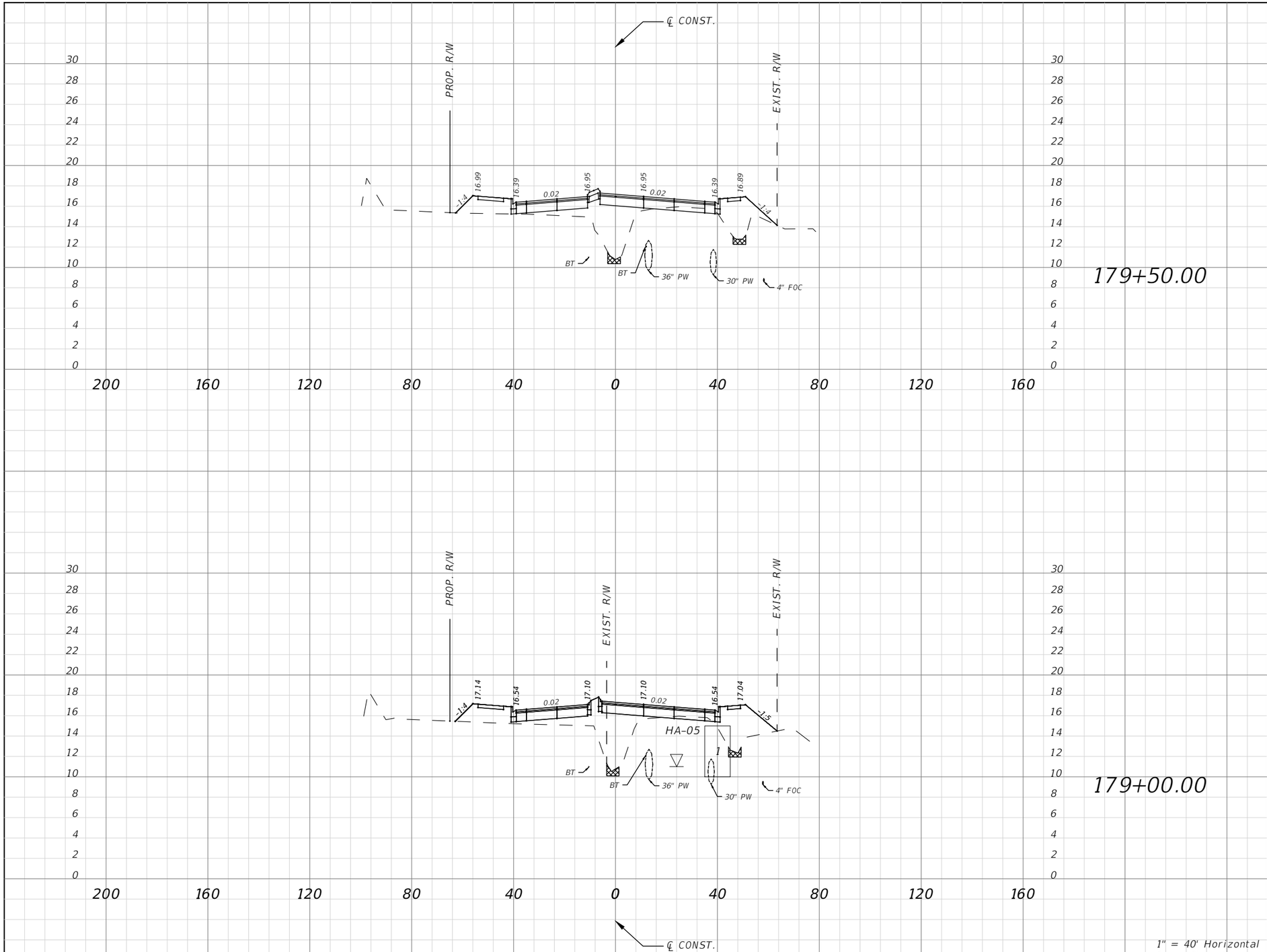
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ROBERT EDWARD HIDECK, P.E.
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CROSS SECTION (12)

SHEET NO.
155

Mitch Johnson 2/6/2019 10:01:41 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
6.06	12.16	7.75	11.31	151.38	305.28
7.07	13.47	4.47	6.15	178.33	357.40

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

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6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

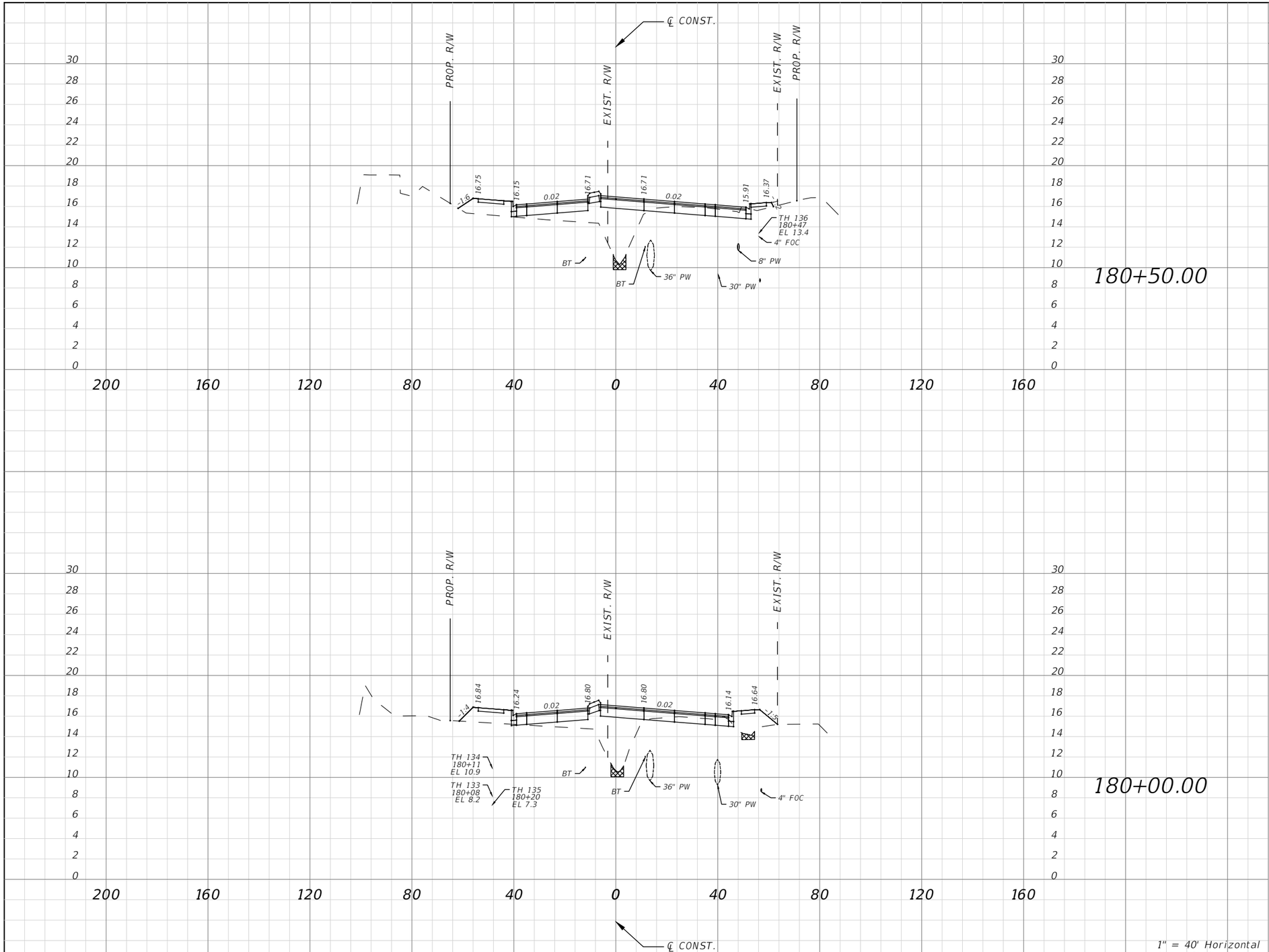
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67495

CROSS SECTION (13)

SHEET NO.
156

Mitch Johnson 2/6/2019 10:02:35 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
4.91	10.58	26.64	39.91	113.76	221.81
6.52	11.64	16.46	22.42	125.79	256.64

1" = 40' Horizontal
1" = 10' Vertical

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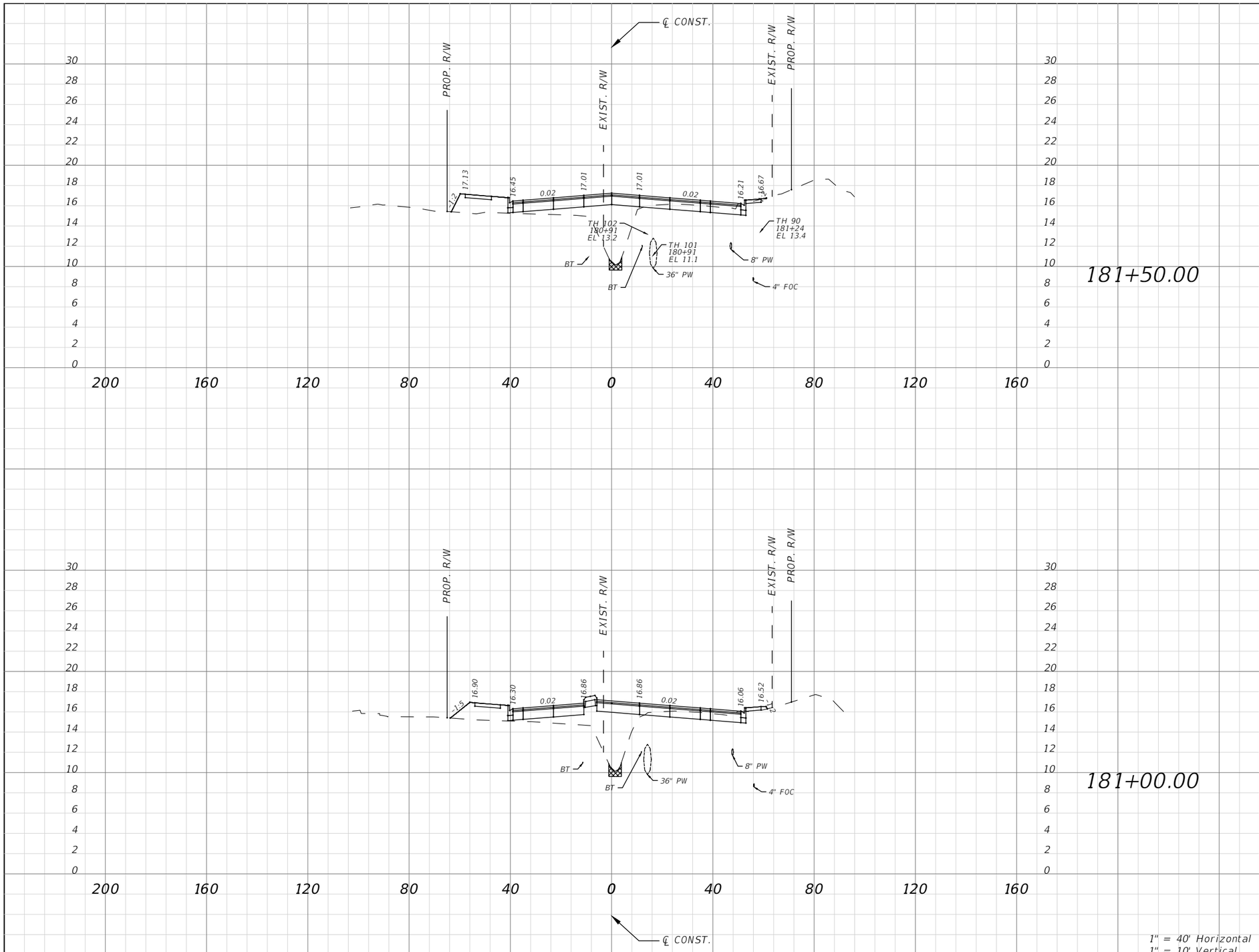
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CROSS SECTION (14)

SHEET NO.
157

Mitch Johnson 2/6/2019 10:03:30 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
4.00	7.53	23.88	45.18	117.33	217.10
4.13	8.37	24.91	47.74	117.14	213.79

1" = 40' Horizontal
1" = 10' Vertical

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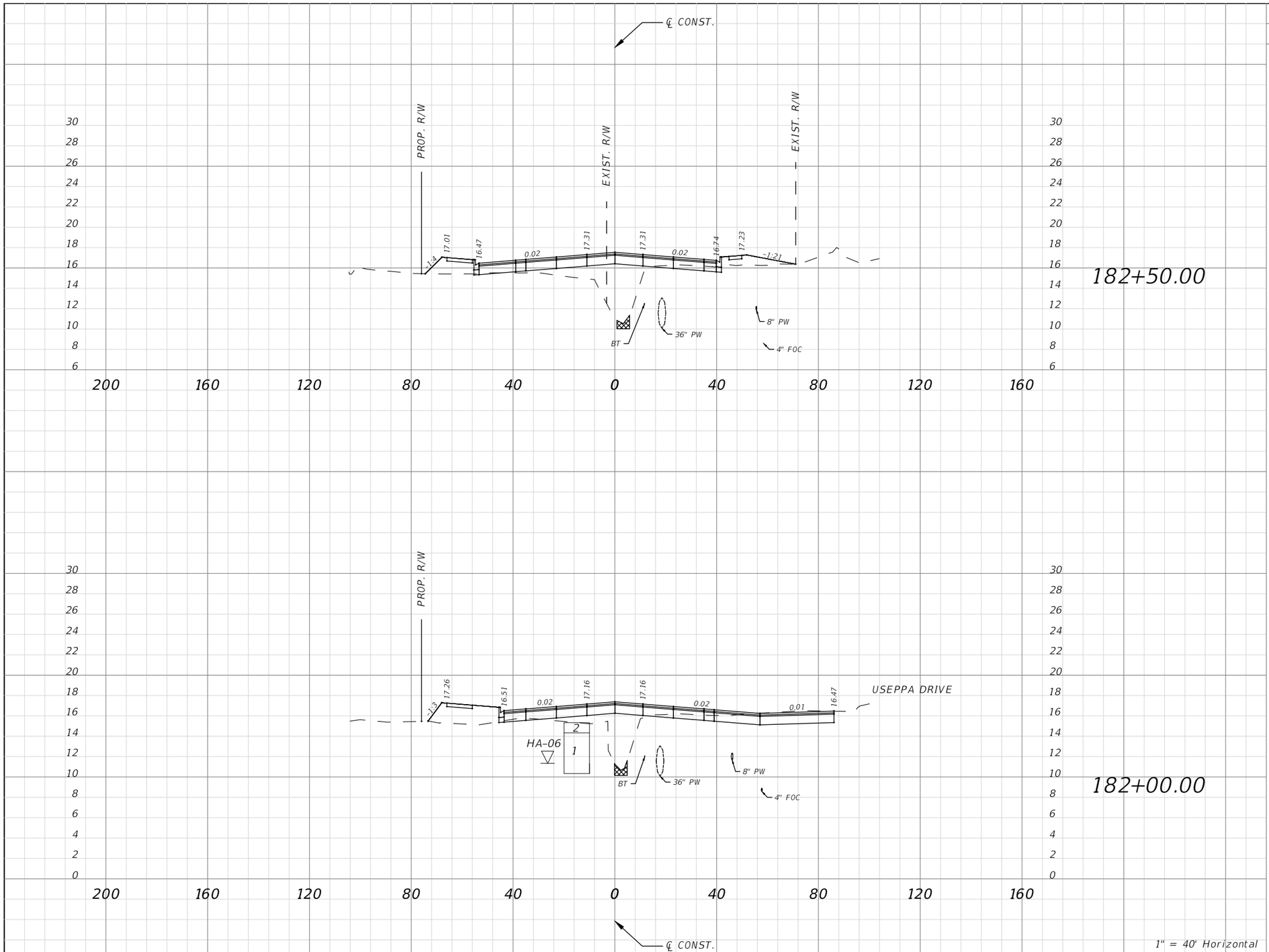
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CROSS SECTION (15)

SHEET NO.
158

Mitch Johnson 2/6/2019 10:04:25 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
4.43	7.62	10.53	67.30	135.59	225.17
3.80	7.22	62.16	79.66	107.59	208.26

No.	REVISIONS	DATE	BY

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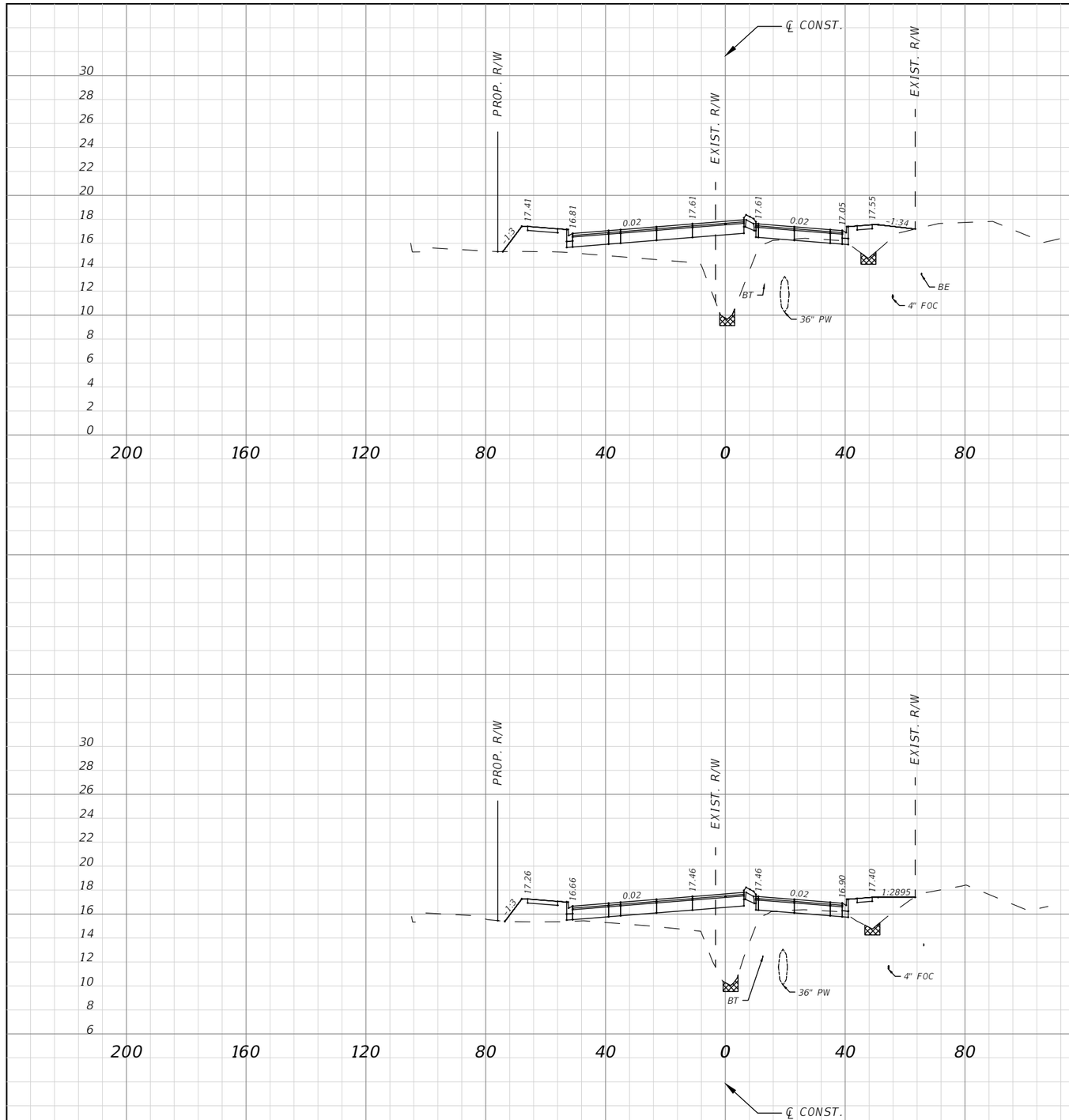
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CROSS SECTION (16)

SHEET NO.
159

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
7.64	14.03	4.12	10.17	217.43	375.37
7.52	18.47	6.86	16.11	187.97	299.60

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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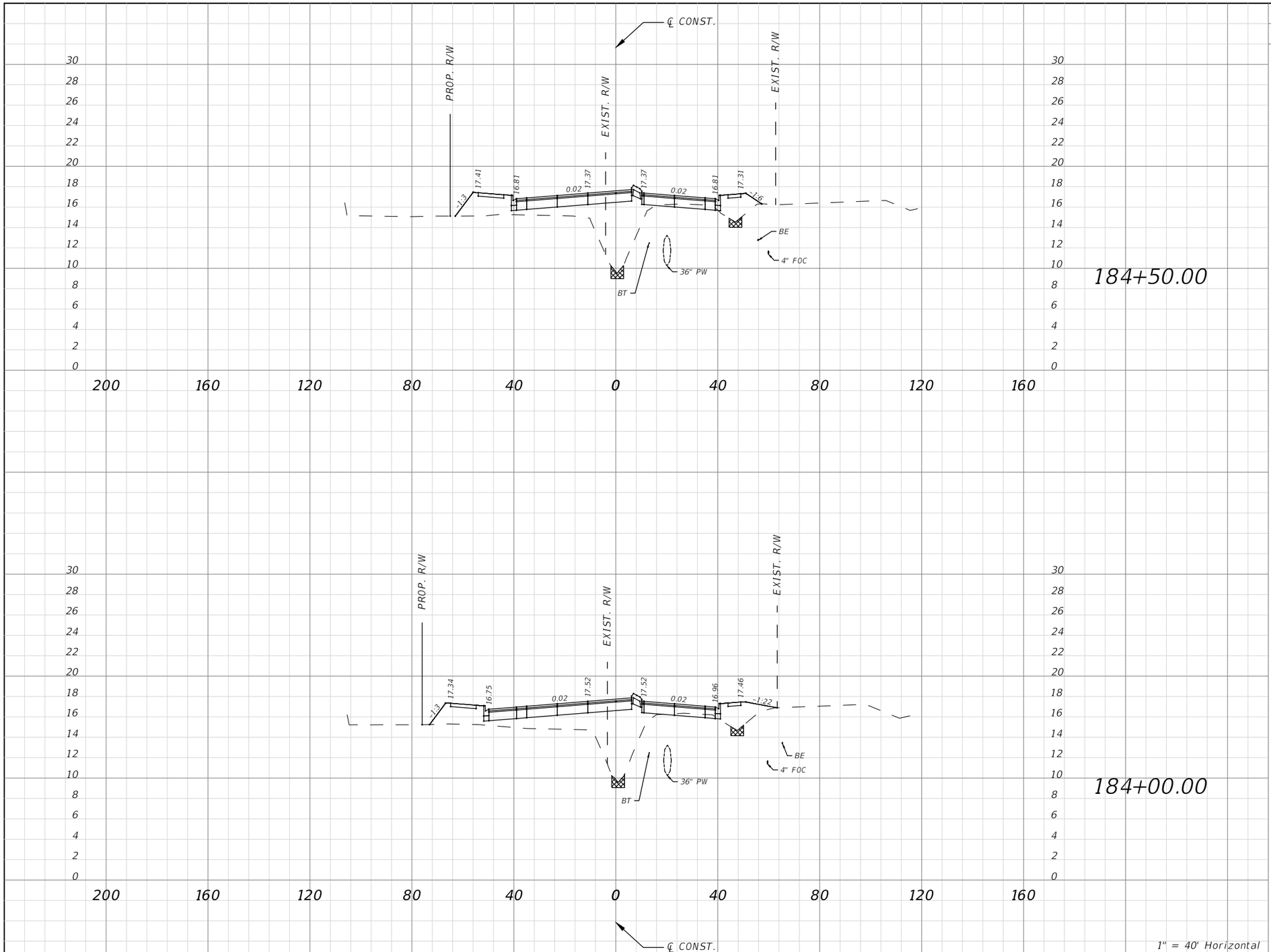
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CROSS SECTION (17)

SHEET NO.
160

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
8.13	14.90	7.39	11.36	187.31	367.15
7.97	14.45	4.89	8.34	209.21	395.04

No.	REVISIONS	DATE	BY

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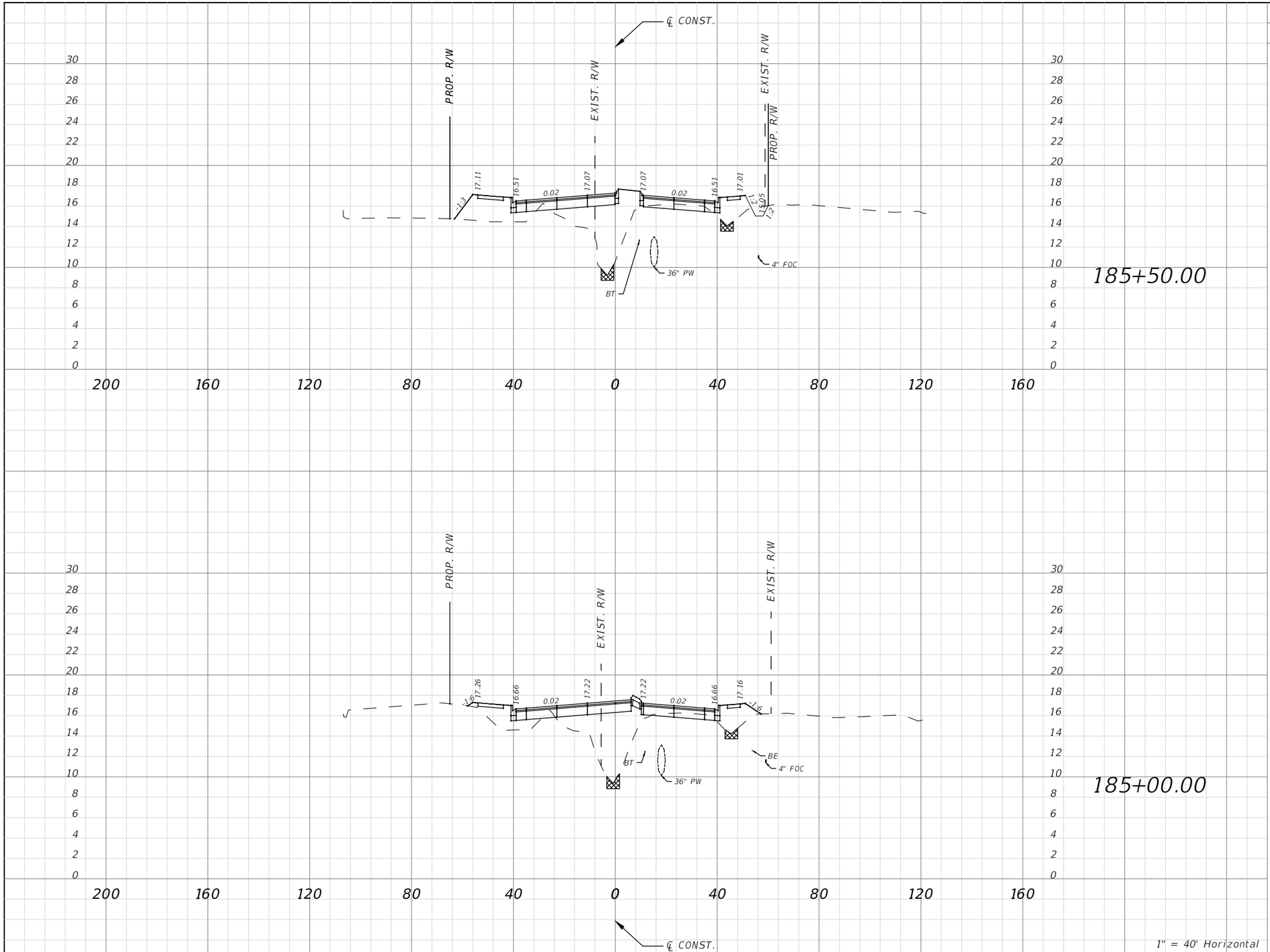
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67495

CROSS SECTION (18)

SHEET NO.
161

Mitch Johnson 2/6/2019 10:07:10 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
8.86	15.94	12.46	22.04	182.07	324.01
8.36	15.26	11.34	17.34	167.87	328.86

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

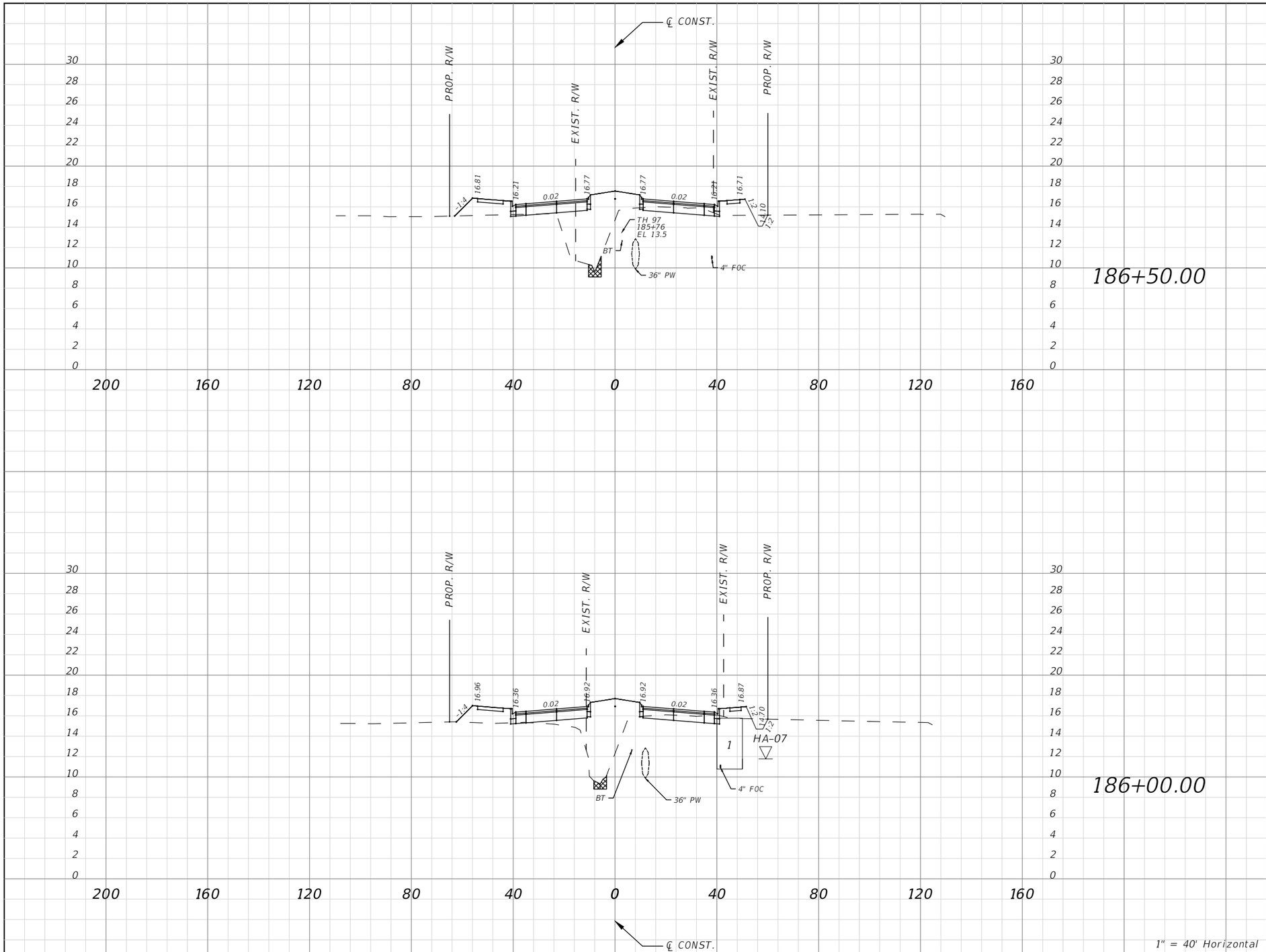
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (19)

SHEET NO.
162

Mitch Johnson 2/6/2019 10:08:05 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
7.80	10.95	16.11	25.29	161.35	229.72
4.03	11.93	16.76	27.06	151.65	308.99

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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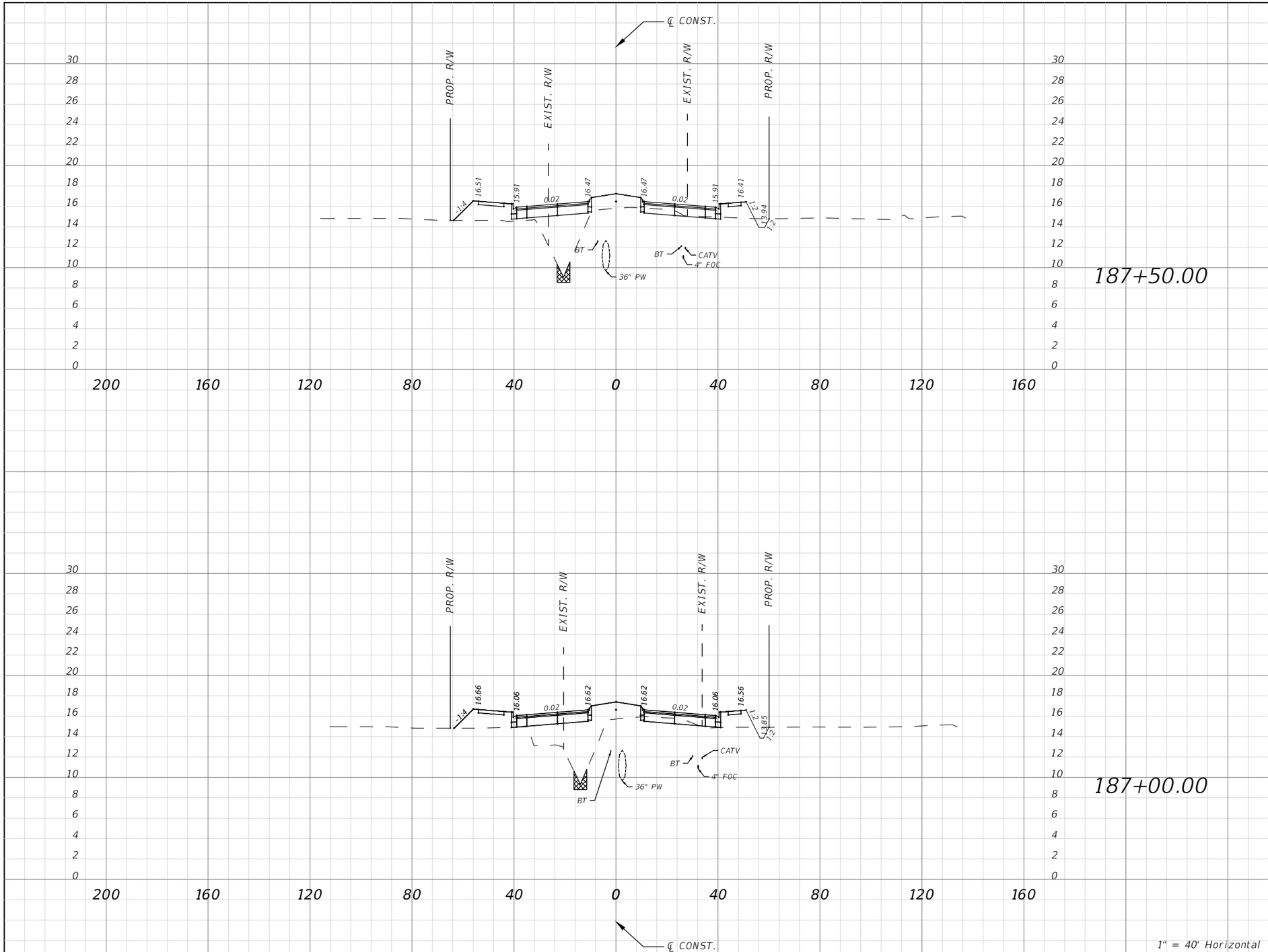
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67495

CROSS SECTION (20)

SHEET NO.
163

Mitch Johnson 2/6/2019 10:09:00 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
6.07	11.19	9.10	4.89	138.18	74.21
6.01	12.79	9.60	23.80	160.42	297.94

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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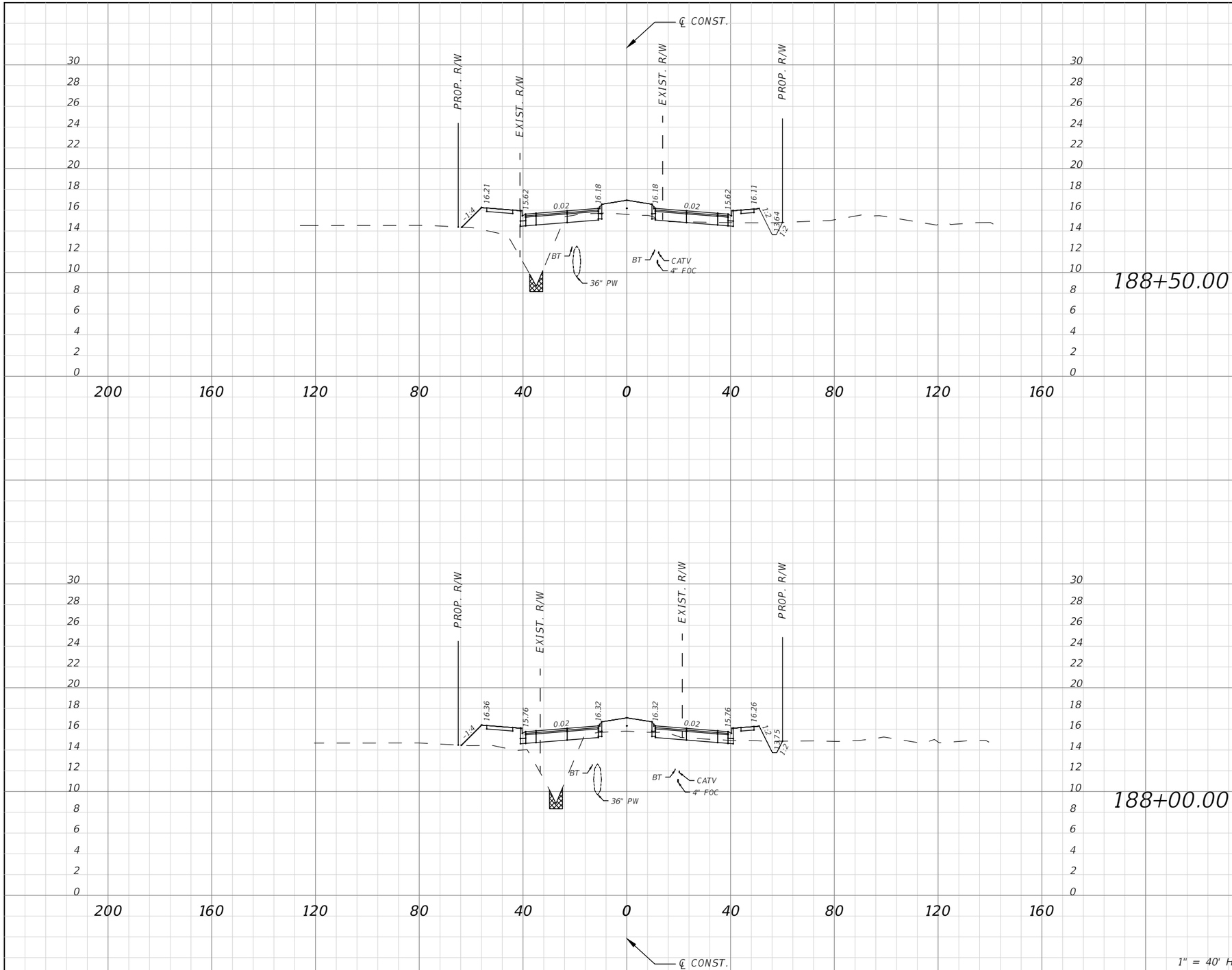
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CROSS SECTION (21)

SHEET NO.
164

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.95	11.14	13.93	12.10	135.50	129.68
6.08	11.25	13.12	20.58	136.72	254.54

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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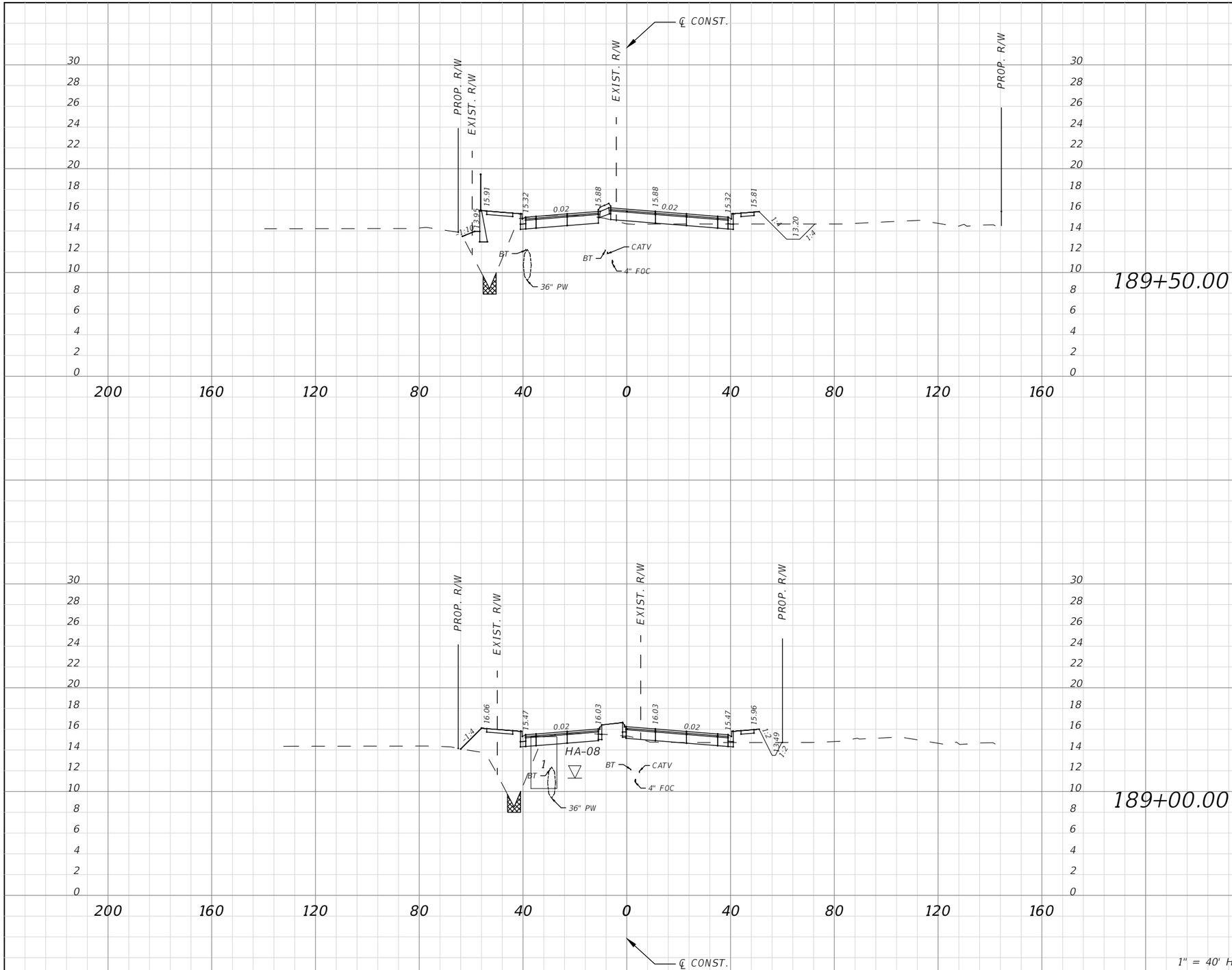
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CROSS SECTION (22)

SHEET NO.
165

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
6.05	11.13	36.03	55.71	84.25	184.22
5.97	11.04	24.14	35.25	114.71	231.67

No.	REVISIONS	DATE	BY

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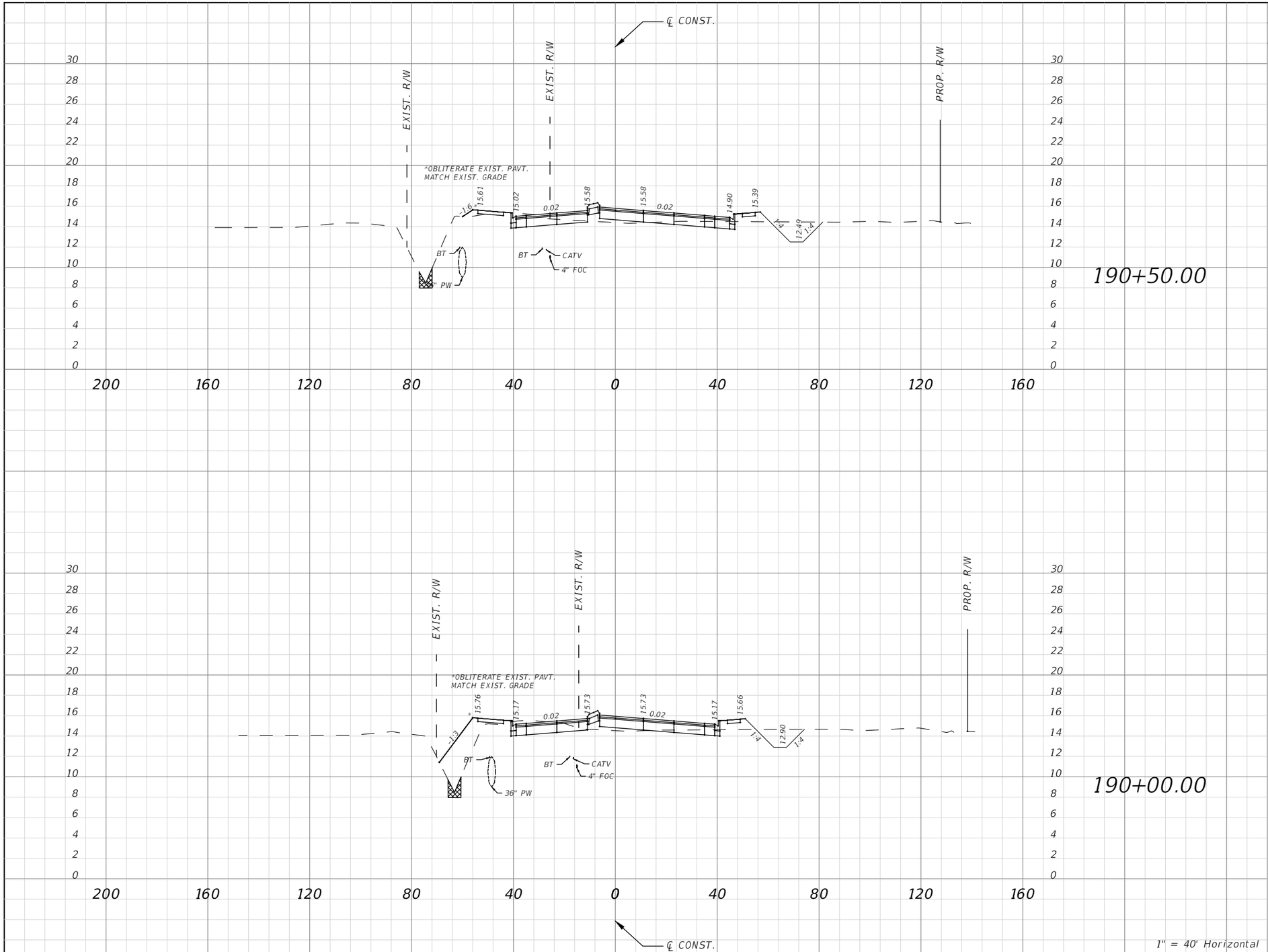
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CROSS SECTION (23)

SHEET NO.
166

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.76	10.93	38.35	70.90	17.19	78.03
6.05	11.20	38.22	68.75	67.08	140.13

1" = 40' Horizontal
1" = 10' Vertical

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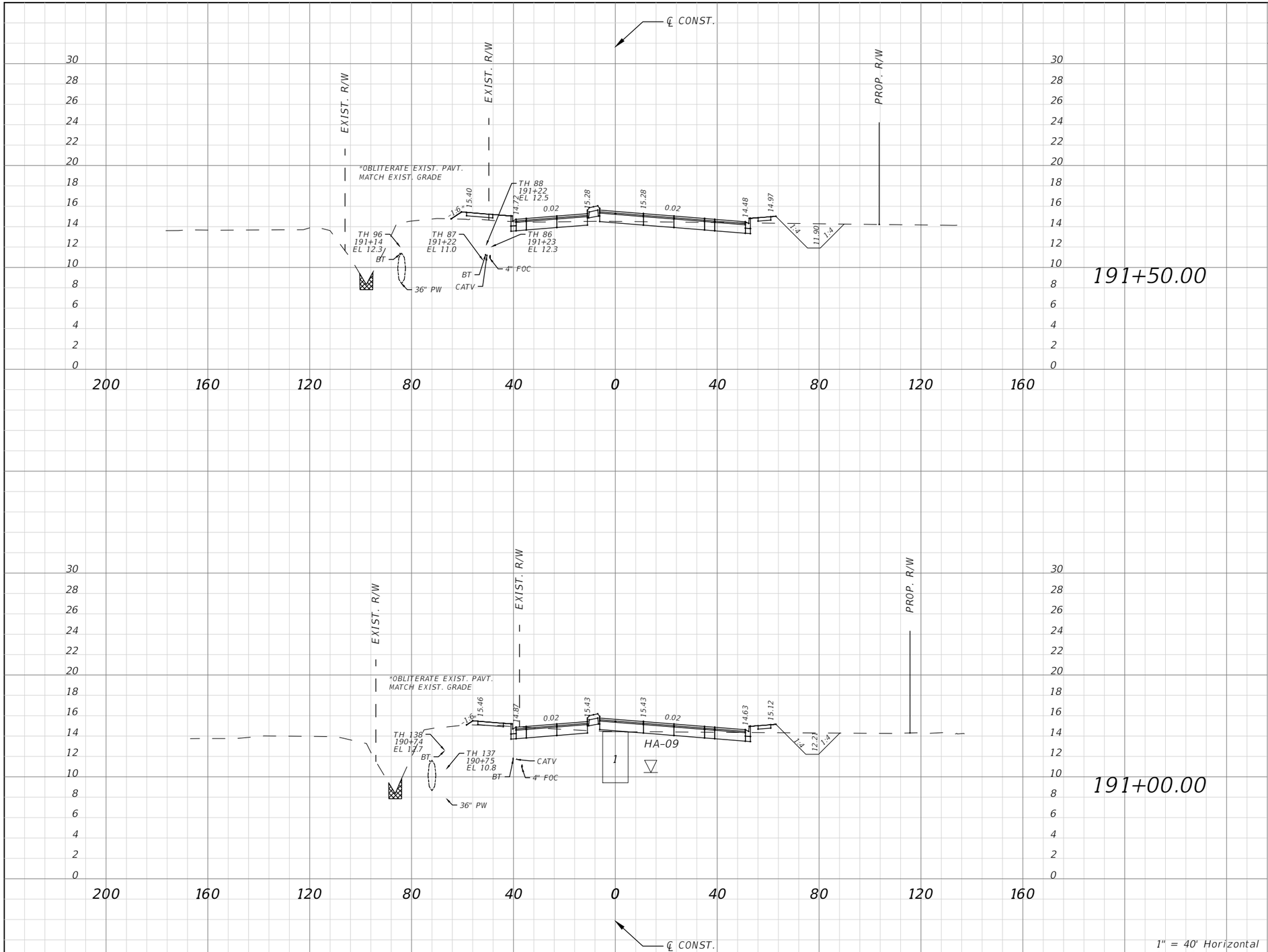
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CROSS SECTION (24)

SHEET NO.
167

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
5.74	10.63	50.82	88.15	15.50	24.94
5.74	10.65	44.38	76.60	11.44	26.51

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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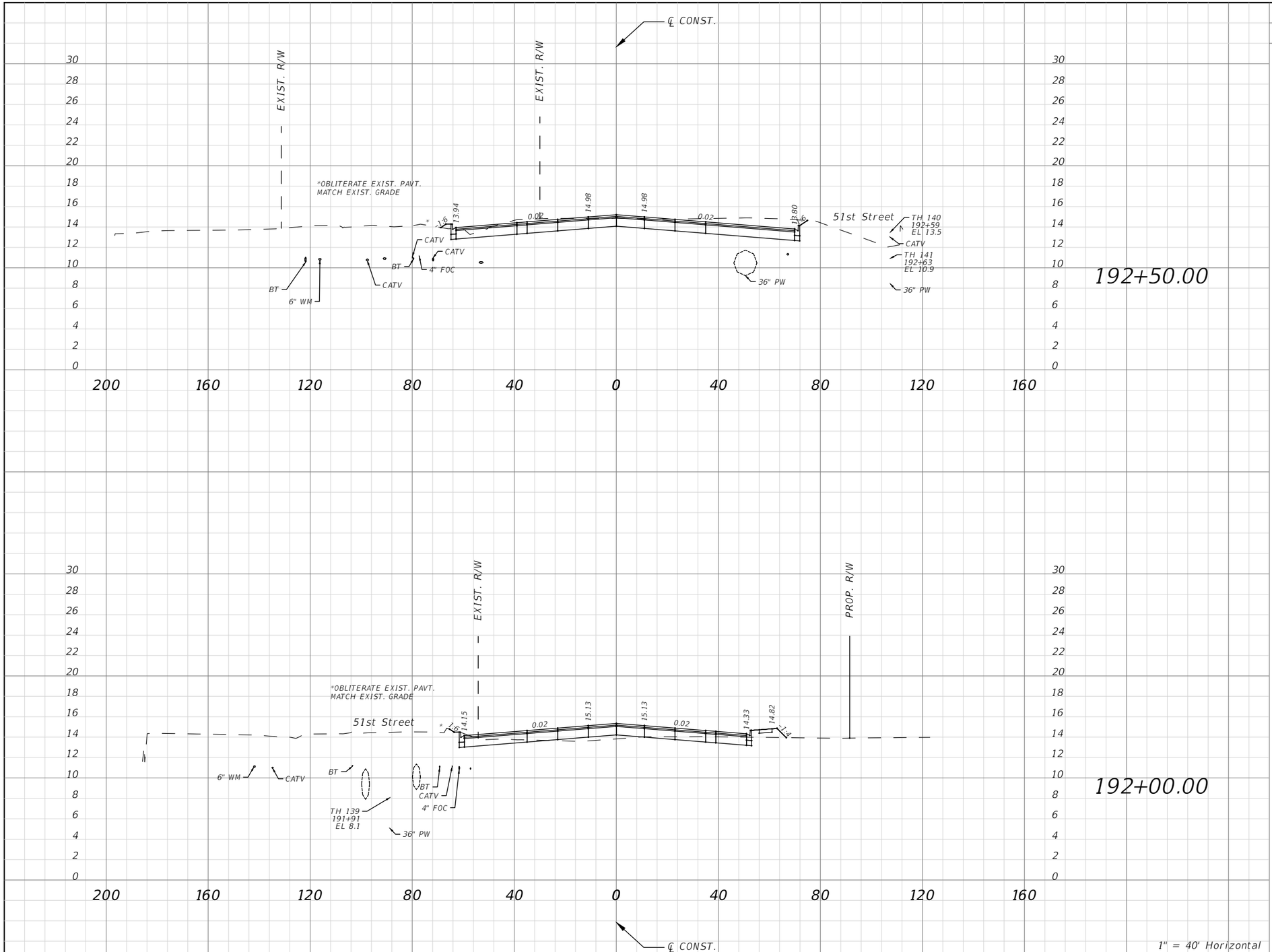
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CROSS SECTION (25)

SHEET NO.
168

Mitch Johnson 2/6/2019 10:13:35 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		173.50	194.91	1.30	17.41
		37.00	81.32	17.50	30.55

No.	REVISIONS	DATE	BY

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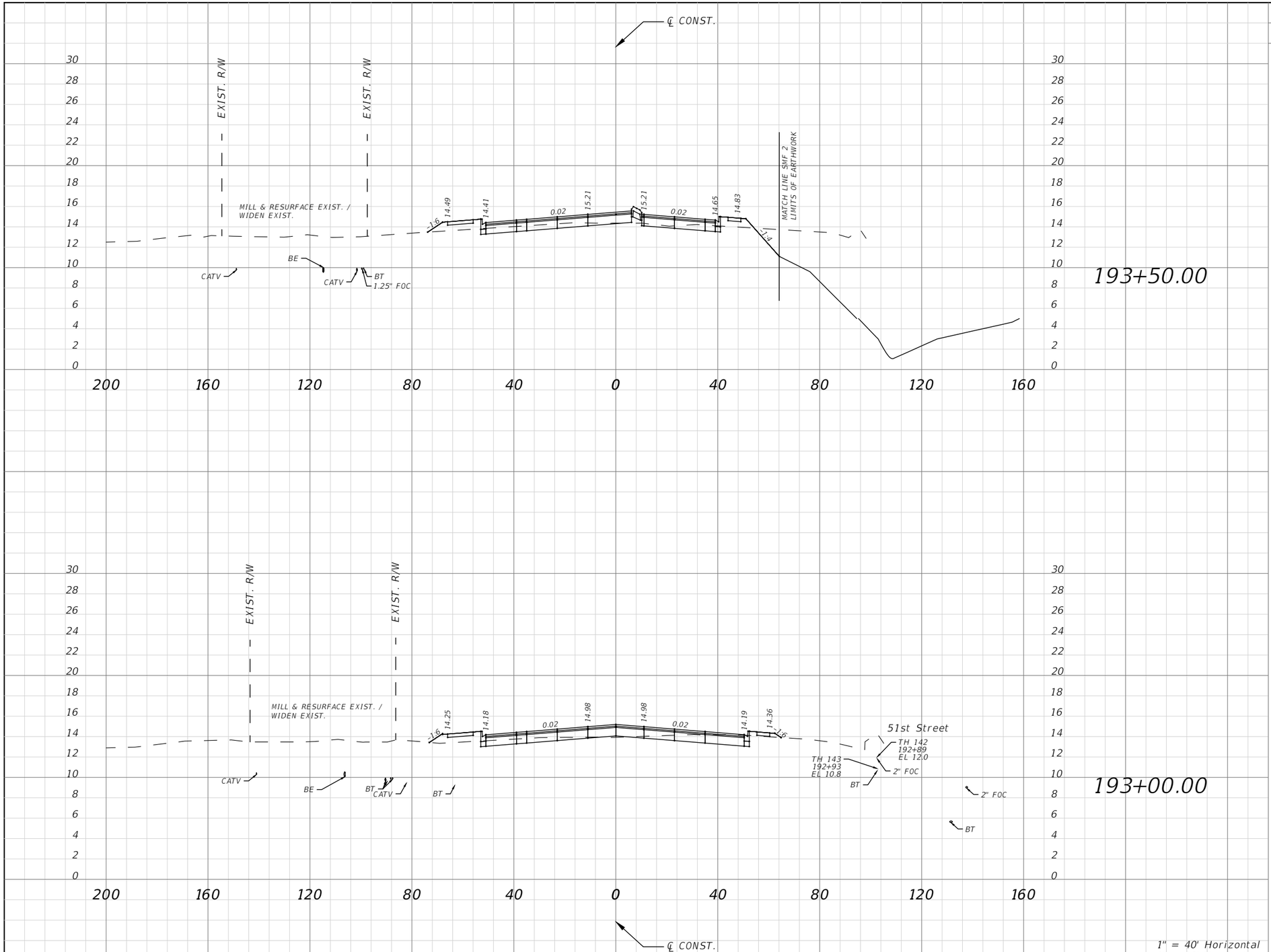
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (26)

SHEET NO.
169

Mitch Johnson 2/6/2019 10:14:30 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		46.10	85.68	23.36	36.66
		46.43	203.64	16.23	16.23

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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ROBERT EDWARD HIDECK, P.E.
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HARDESTY & HANOVER, LLC
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(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

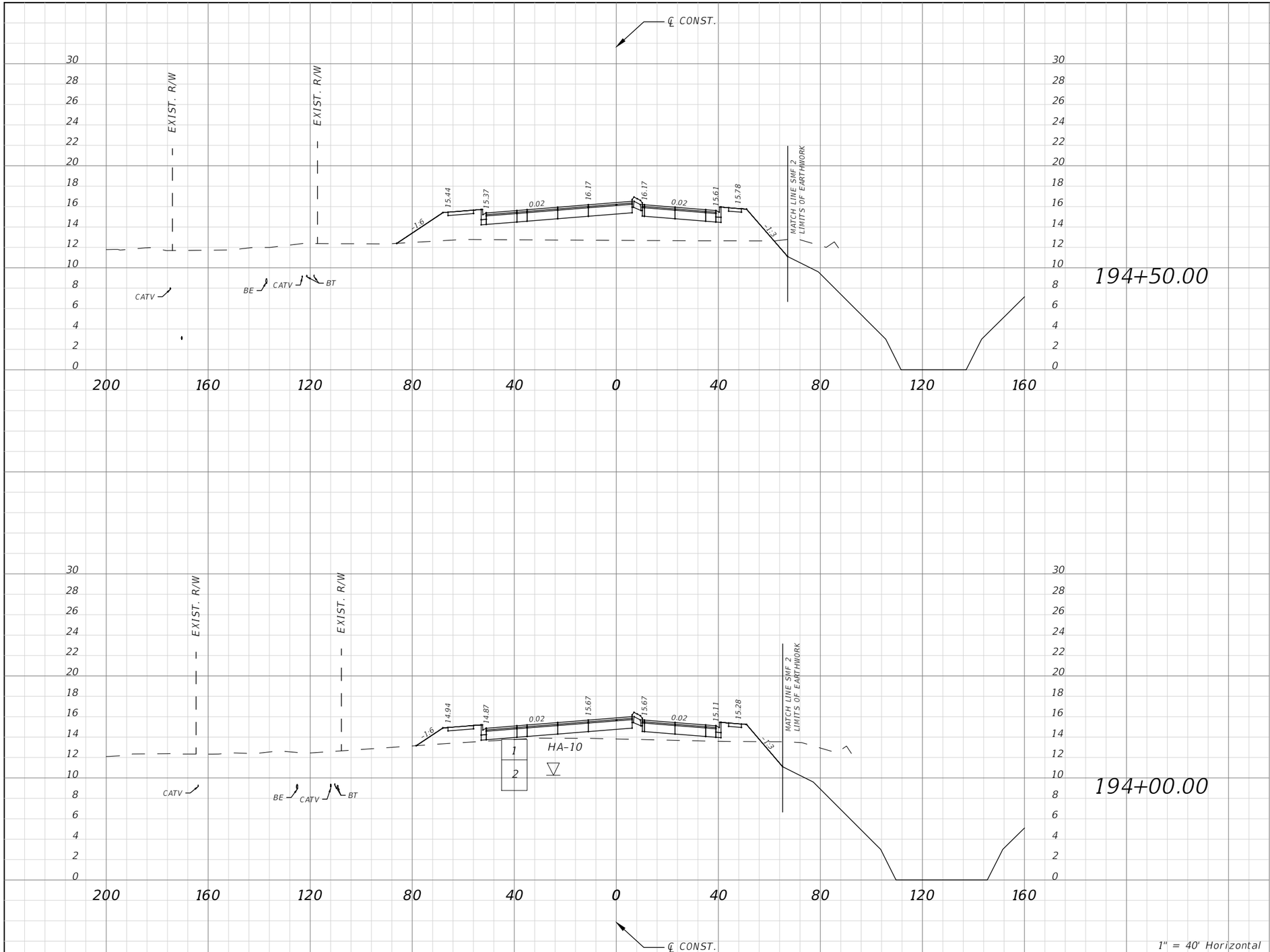
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FL. LICENSE NO.
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CROSS SECTION (27)

SHEET NO.
170

Mitch Johnson 2/6/2019 10:15:26 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		4.44	13.64	311.14	382.11
		10.29	52.22	101.54	115.65

No.	REVISIONS	DATE	BY

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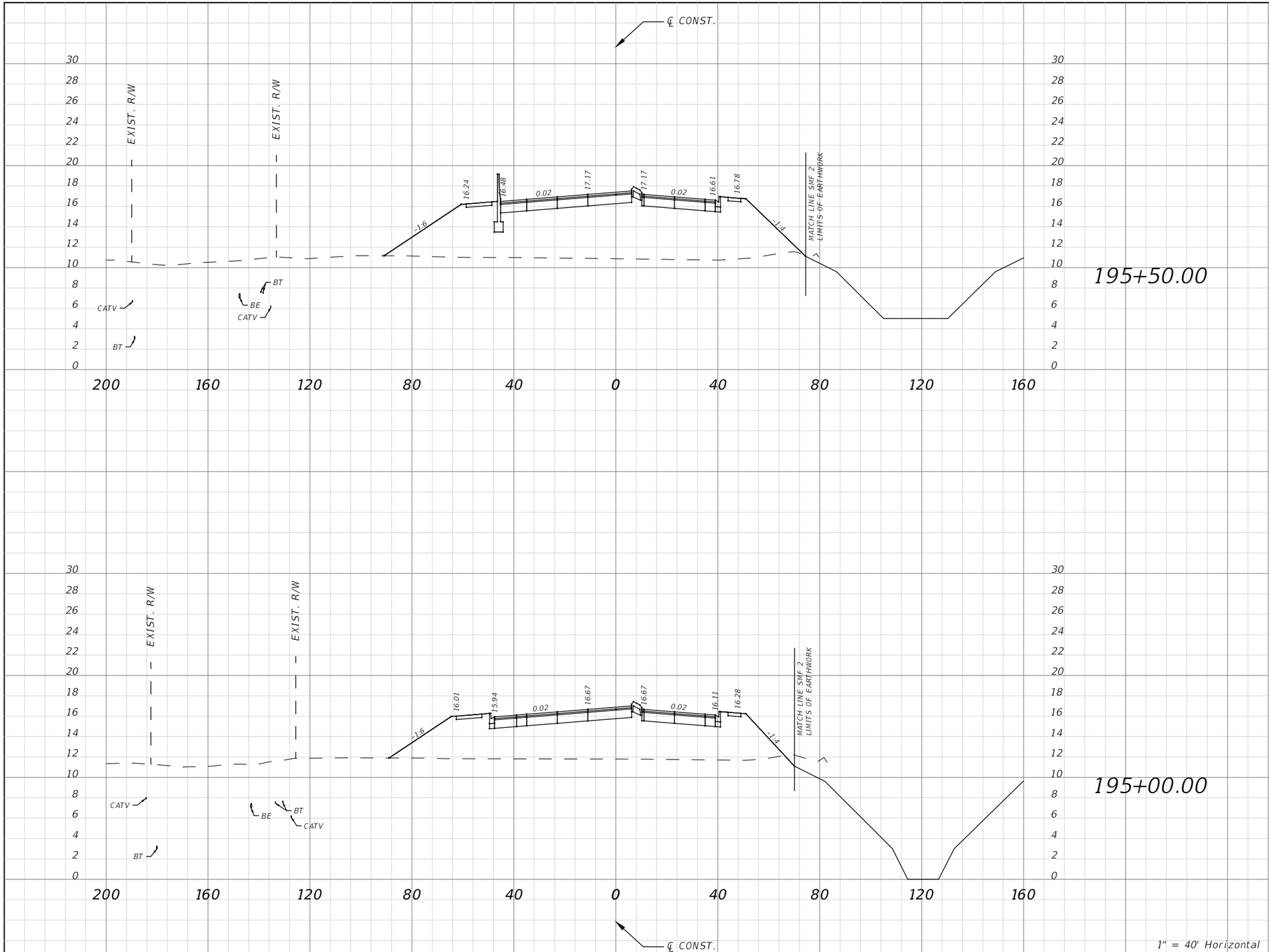
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CROSS SECTION (28)

SHEET NO.
171

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.05	2.02	700.65	1124.38
		2.13	6.08	513.68	763.72

1" = 40' Horizontal
1" = 10' Vertical

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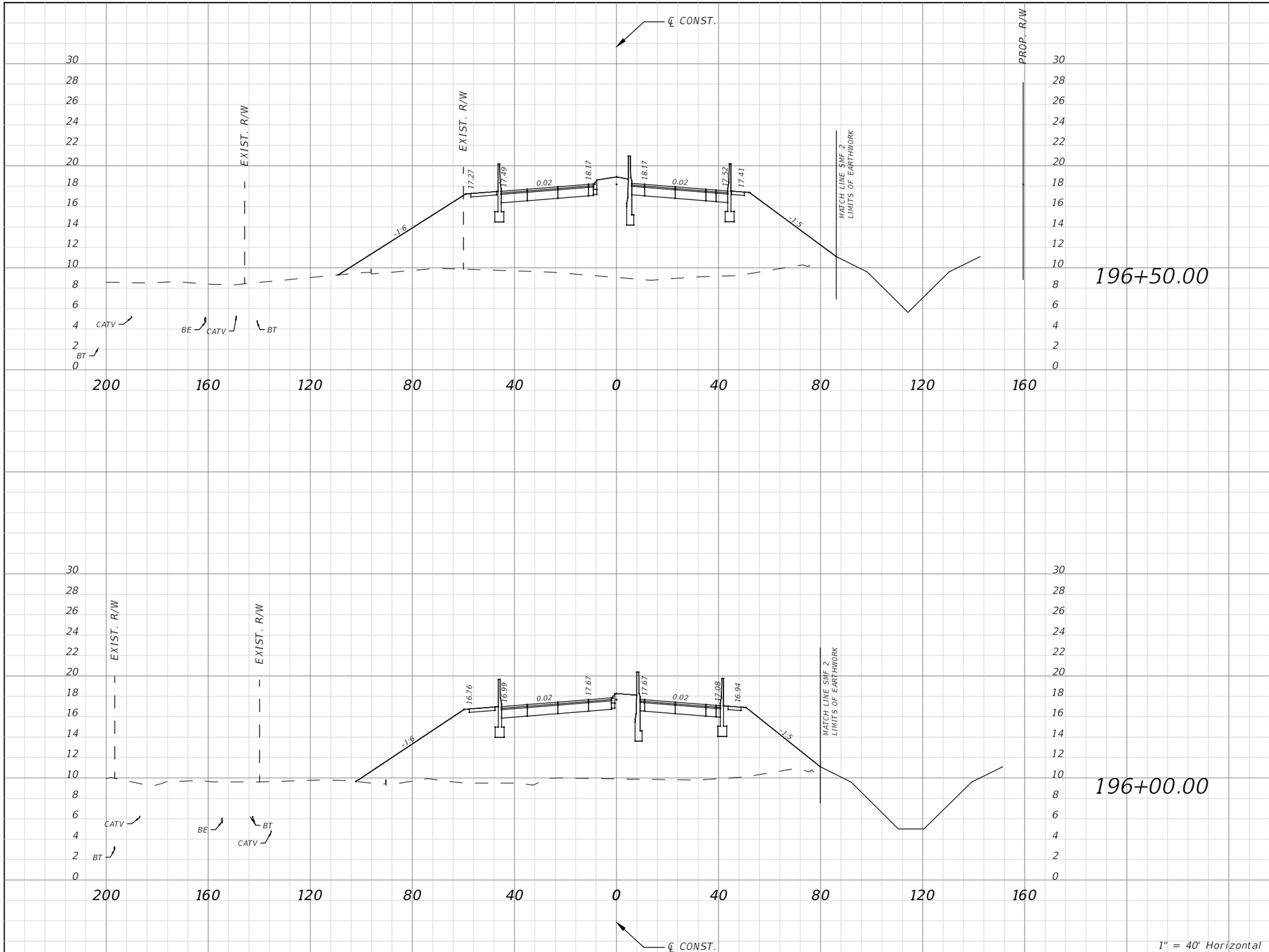
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CROSS SECTION (29)

SHEET NO.
172

Mitch Johnson 2/6/2019 10:17:17 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	1140.82	1951.17
		0.00	0.05	966.44	1543.60

No.	REVISIONS	DATE	BY

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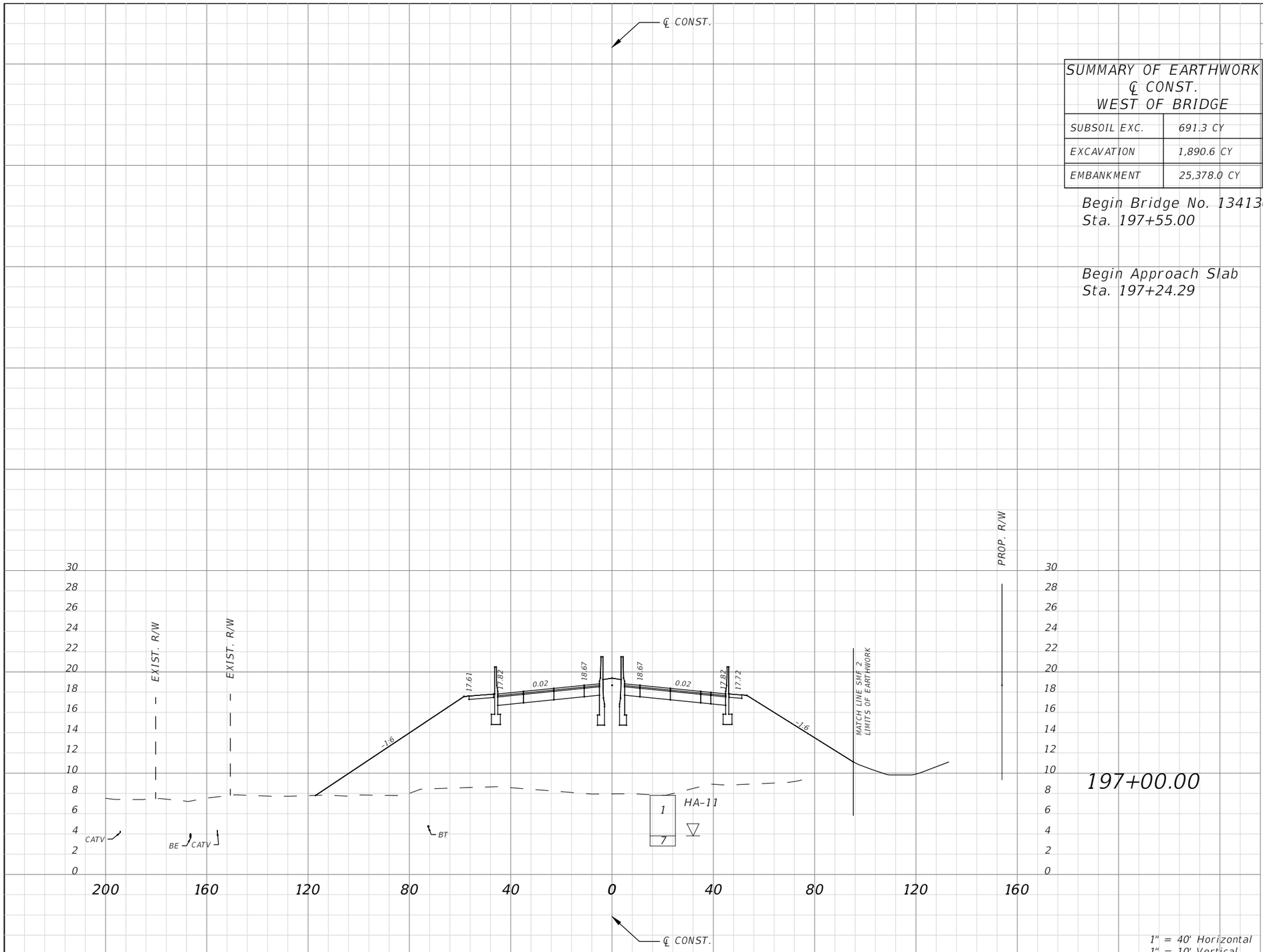
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CROSS SECTION (30)

SHEET NO.
173

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197+00.00

1" = 40' Horizontal
1" = 10' Vertical

SUMMARY OF EARTHWORK
℄ CONST.
WEST OF BRIDGE

SUBSOIL EXC.	691.3 CY
EXCAVATION	1,890.6 CY
EMBANKMENT	25,378.0 CY

	Subsoil Exc.		Regular Exc.		Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
Begin Bridge No. 134130 Sta. 197+55.00			0.00	0.00	1671.74	3212.26
Begin Approach Slab Sta. 197+24.29			0.17	0.16	1400.01	2352.89

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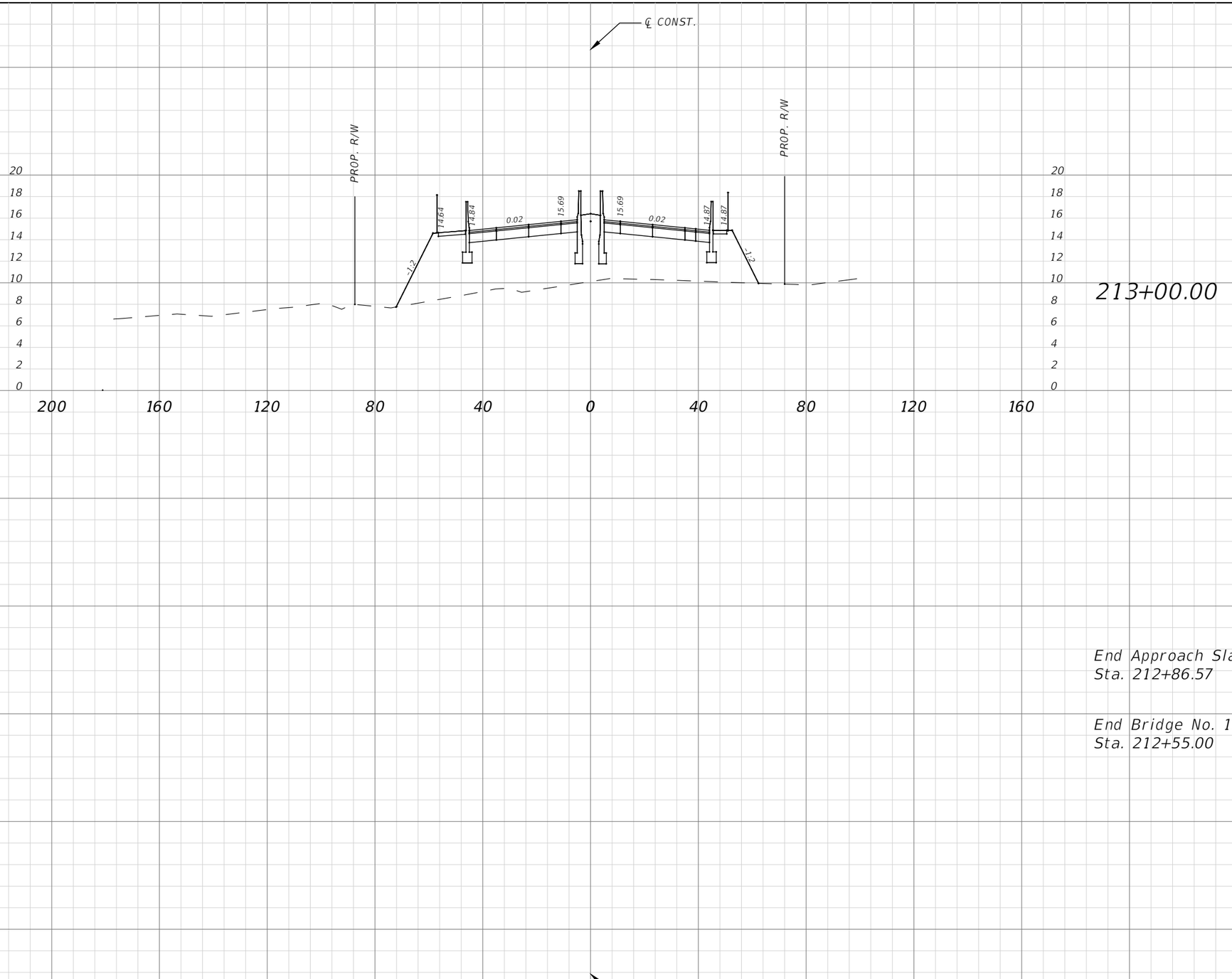
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CROSS SECTION (31)

SHEET NO.
174

Mitch Johnson 6/25/2019 5:51:57 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD01.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	553.15	1105.15
		0.00	0.00	802.03	1969.62

End Approach Slab
Sta. 212+86.57

End Bridge No. 134130
Sta. 212+55.00

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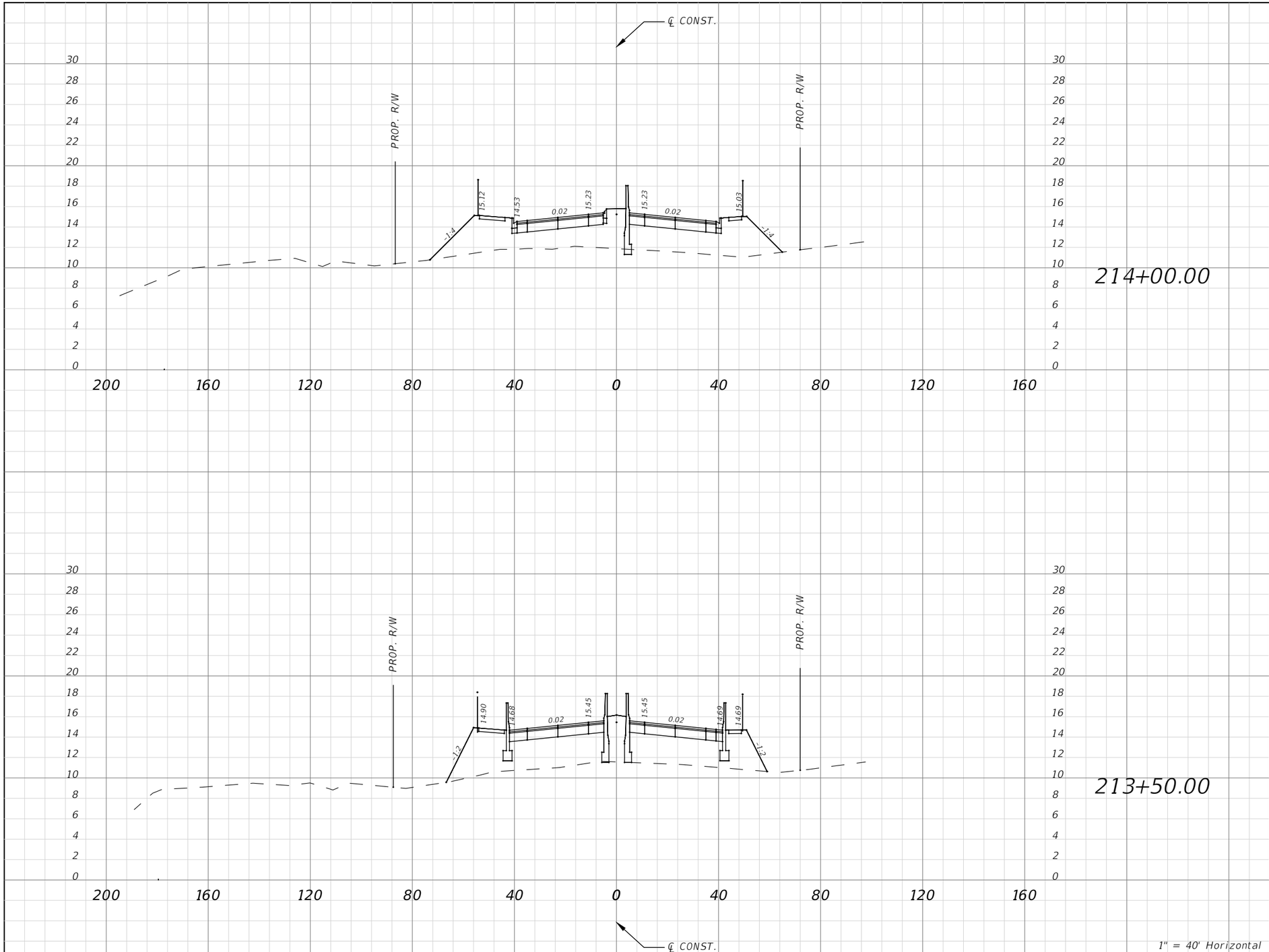
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CROSS SECTION (32)

SHEET NO.
175

Mitch Johnson 2/6/2019 10:22:05 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		1.43	1.59	319.36	614.61
		0.29	0.27	344.42	831.09

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

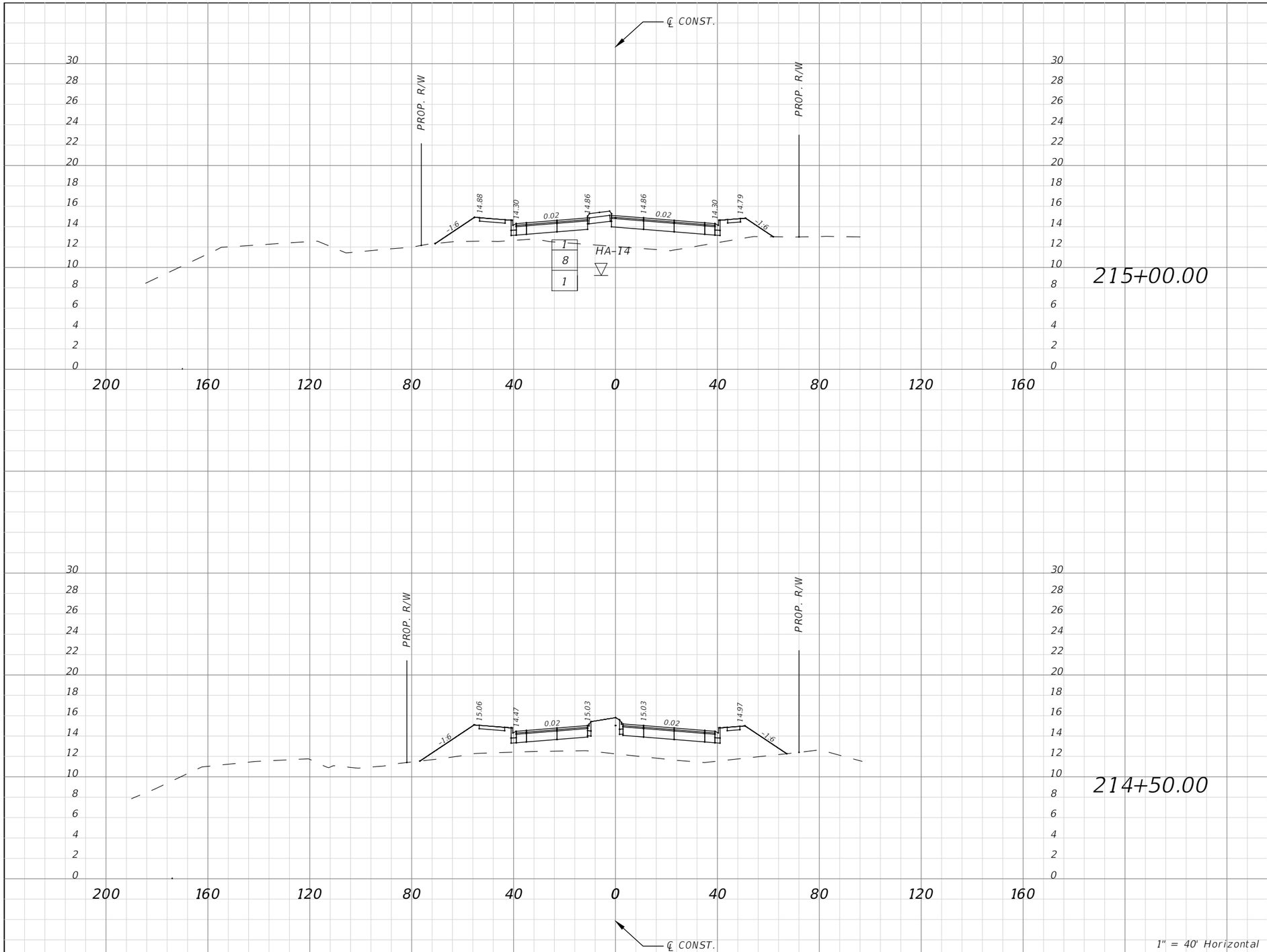
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (33)

SHEET NO.
176

Mitch Johnson 2/6/2019 10:22:51 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	190.43	426.15
		0.00	1.32	269.81	545.52

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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CHECKED BY

ROBERT EDWARD HIDECK, P.E.
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

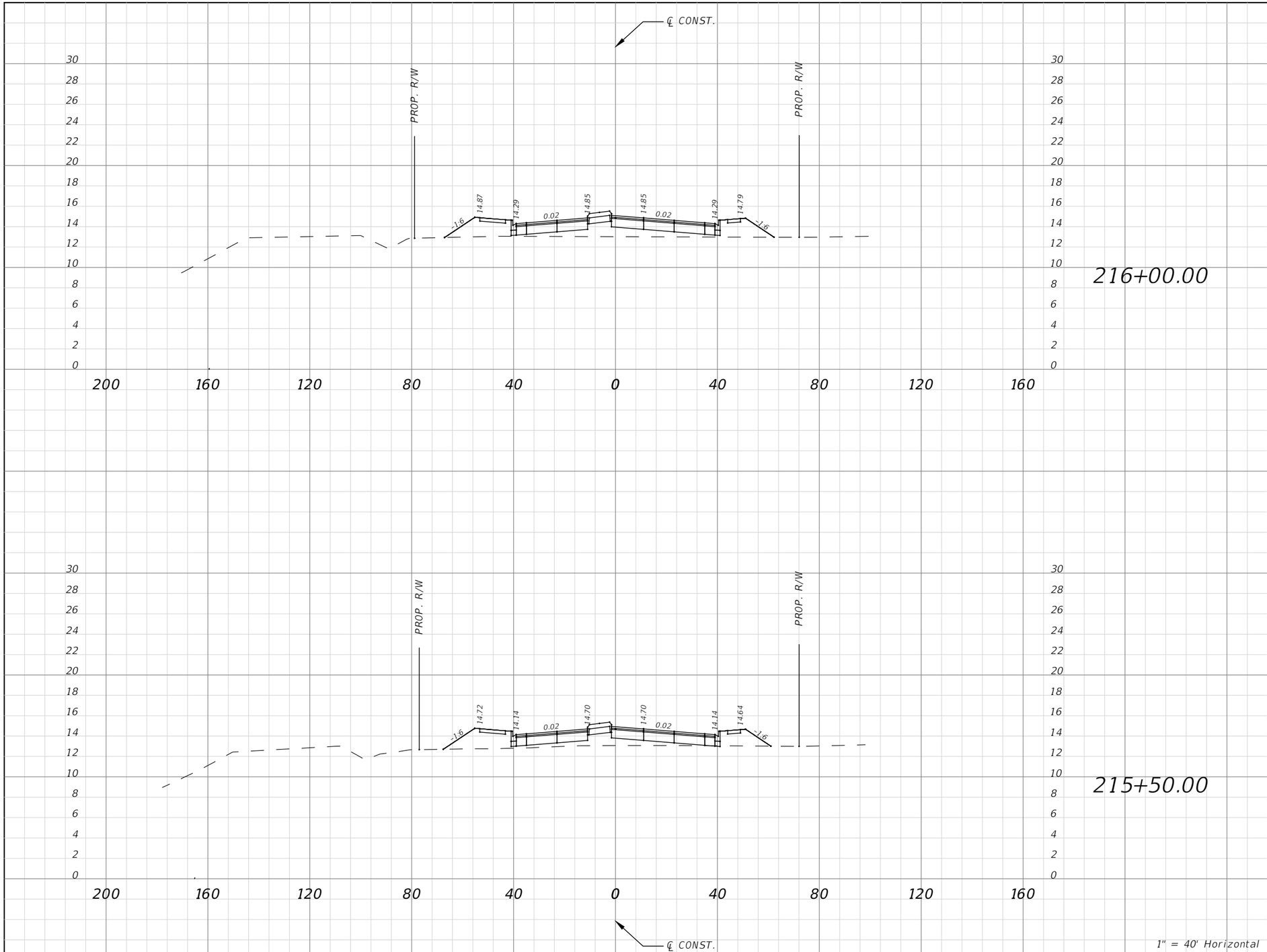
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (34)

SHEET NO.
177

Mitch Johnson 2/6/2019 10:23:36 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.31	107.36	74.61
		0.14	0.13	92.98	262.42

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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6086960

Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

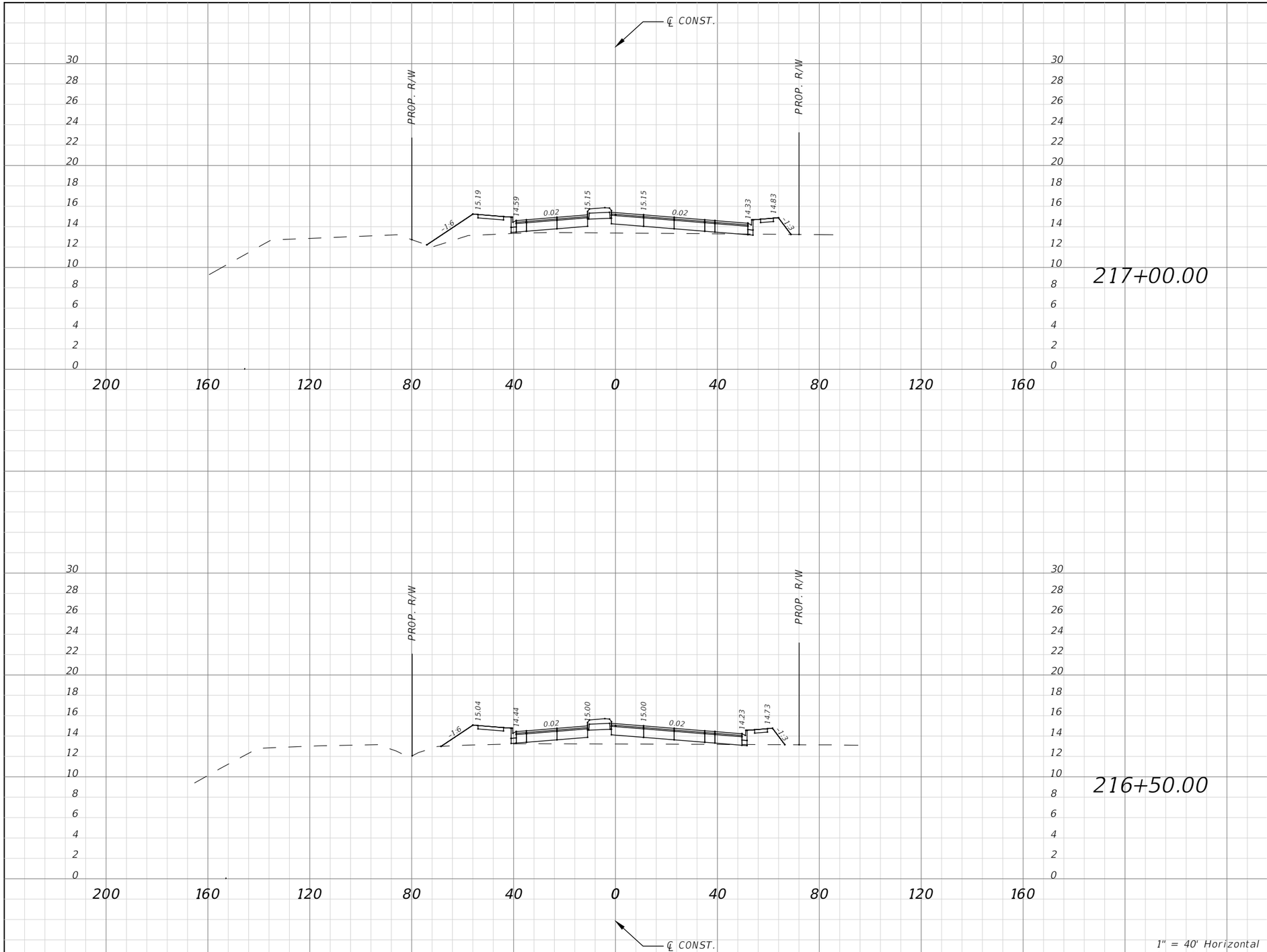
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (35)

SHEET NO.
178

Mitch Johnson 2/6/2019 10:24:22 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.28	0.54	108.30	189.88
		0.31	0.29	96.78	189.02

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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ROBERT EDWARD HIDECK, P.E.
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

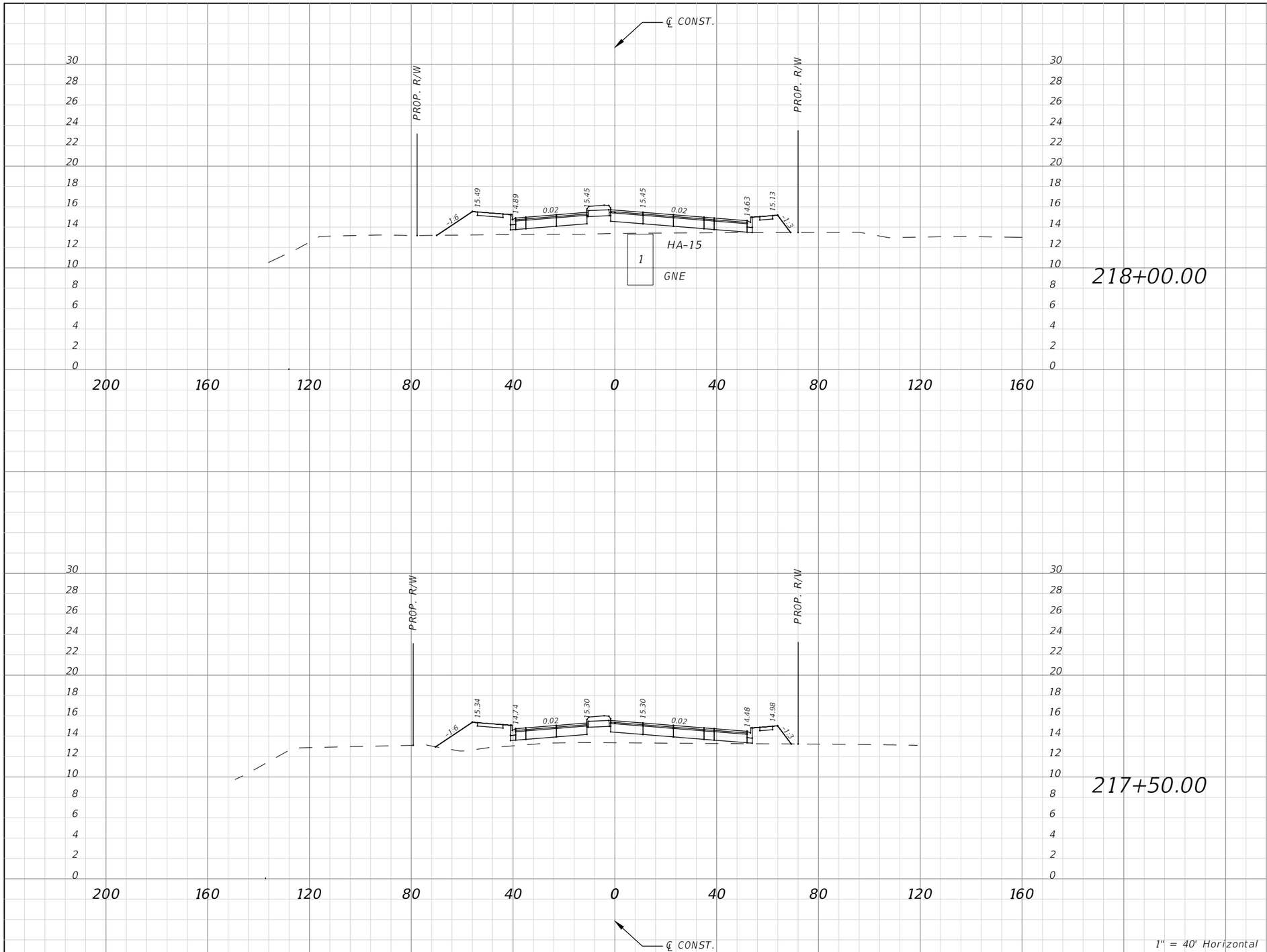
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (36)

SHEET NO.
179

Mitch Johnson 2/6/2019 10:25:08 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	134.31	251.05
		0.00	0.26	136.82	226.96

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

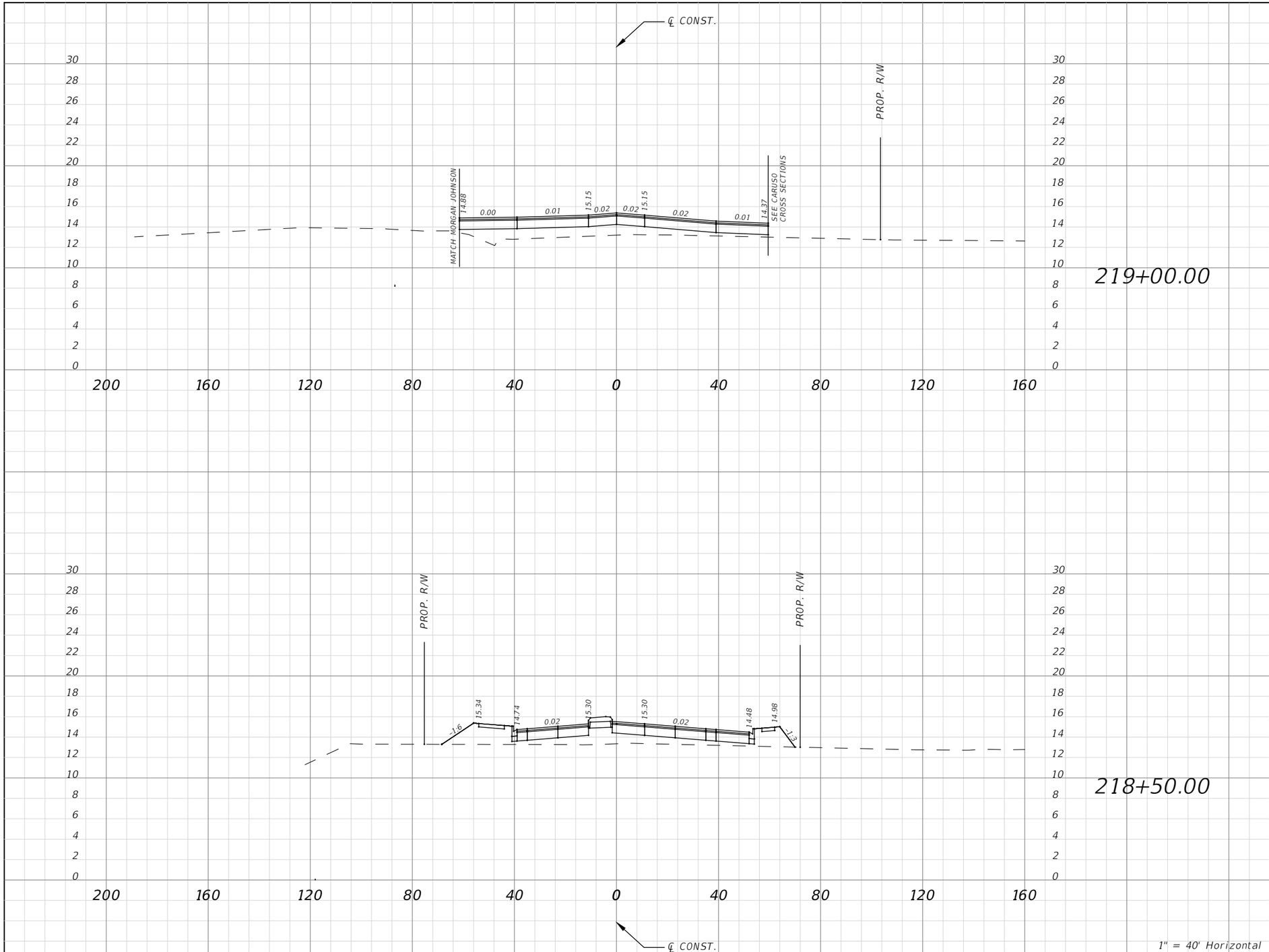
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (37)

SHEET NO.
180

Mitch Johnson 2/6/2019 10:25:53 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		2.14	1.98	252.96	353.13
		0.00	0.00	128.43	243.28

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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ROBERT EDWARD HIDECK, P.E.
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TAMPA, FL 33634
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DATE

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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

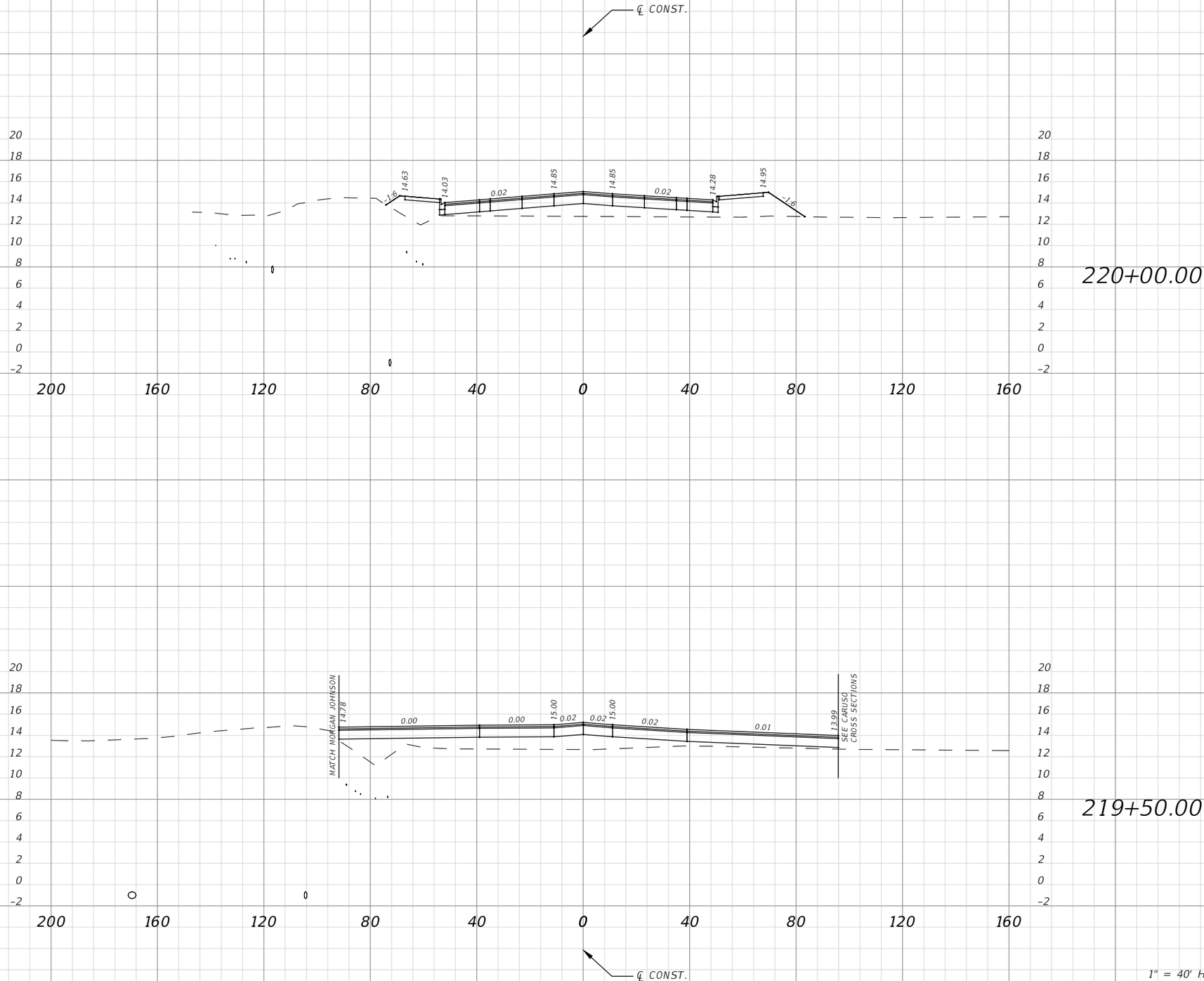
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (38)

SHEET NO.
181

Mitch Johnson 2/6/2019 10:26:39 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	156.21	293.82
		0.00	1.98	161.11	383.40

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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CHECKED BY

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P.E. NO. 67495
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DATE

PROJECT NO.
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Manatee County FLORIDA
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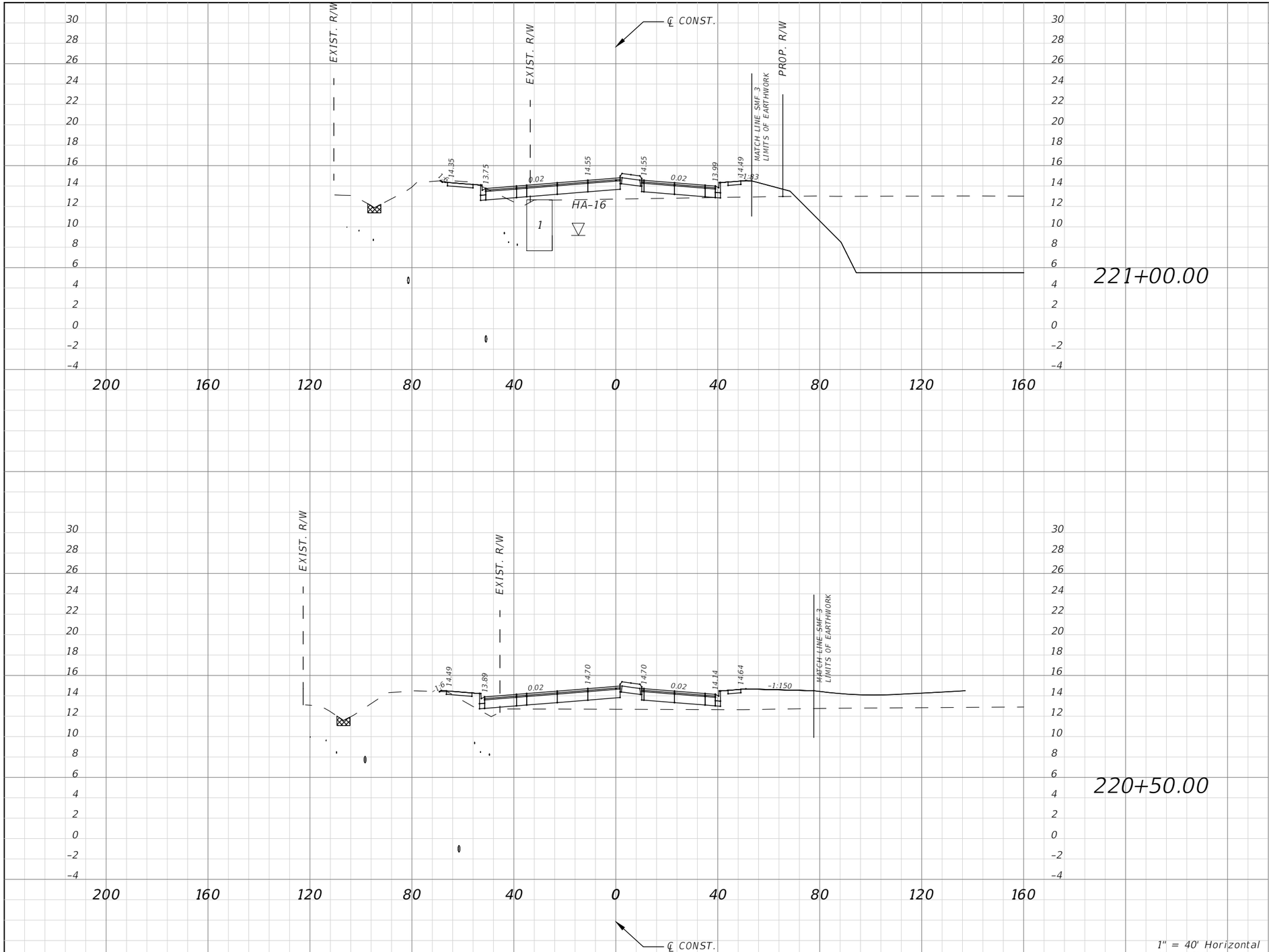
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (39)

SHEET NO.
182

Mitch Johnson 2/6/2019 10:27:25 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	13.56	12.89	67.75	197.21
0.00	0.00	0.37	0.34	145.24	279.12

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE:

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

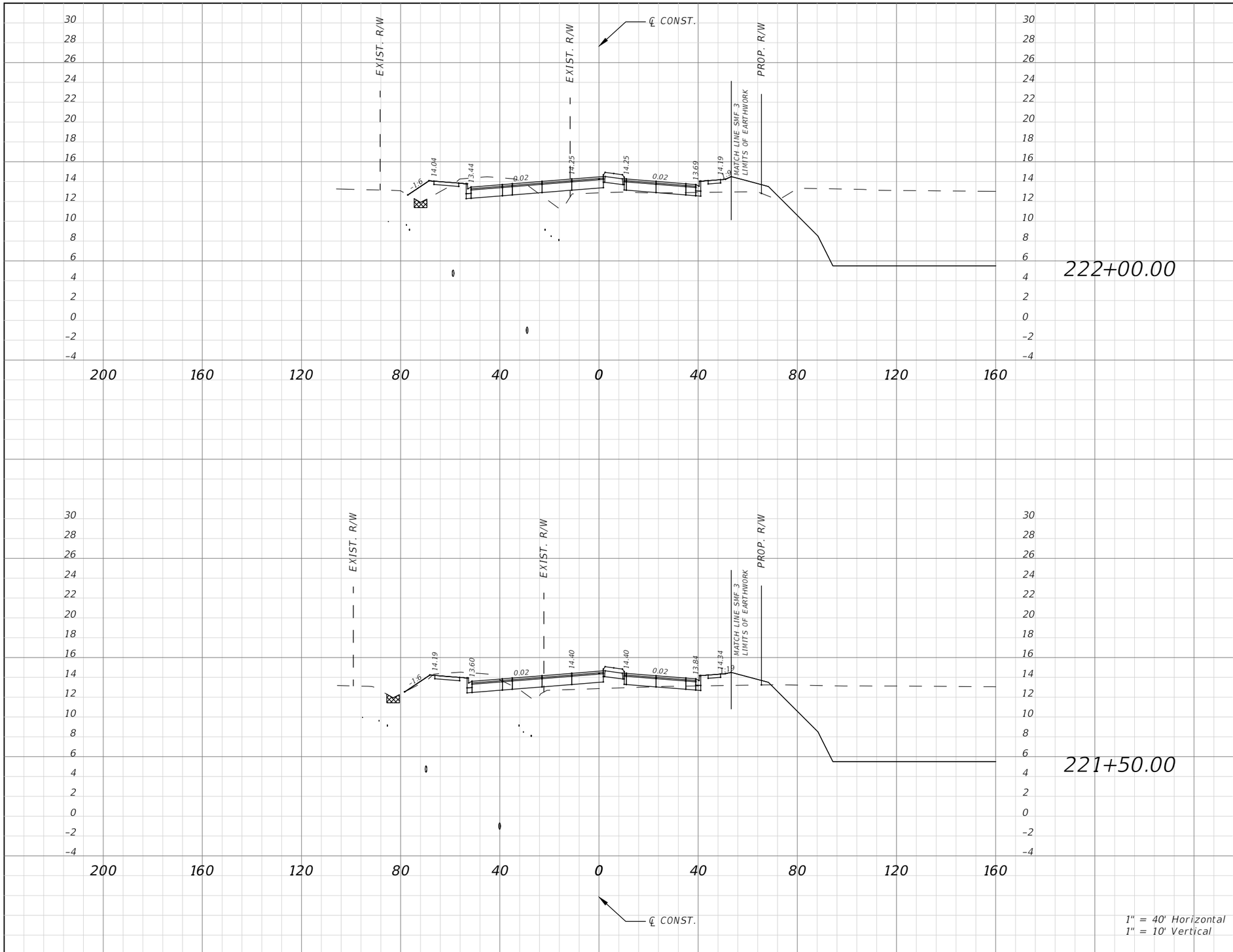
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION (40)

SHEET NO.: 183

Mitch Johnson 2/6/2019 10:28:11 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	51.12	83.91	59.48	97.04
0.00	0.00	39.51	49.14	45.32	104.70

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

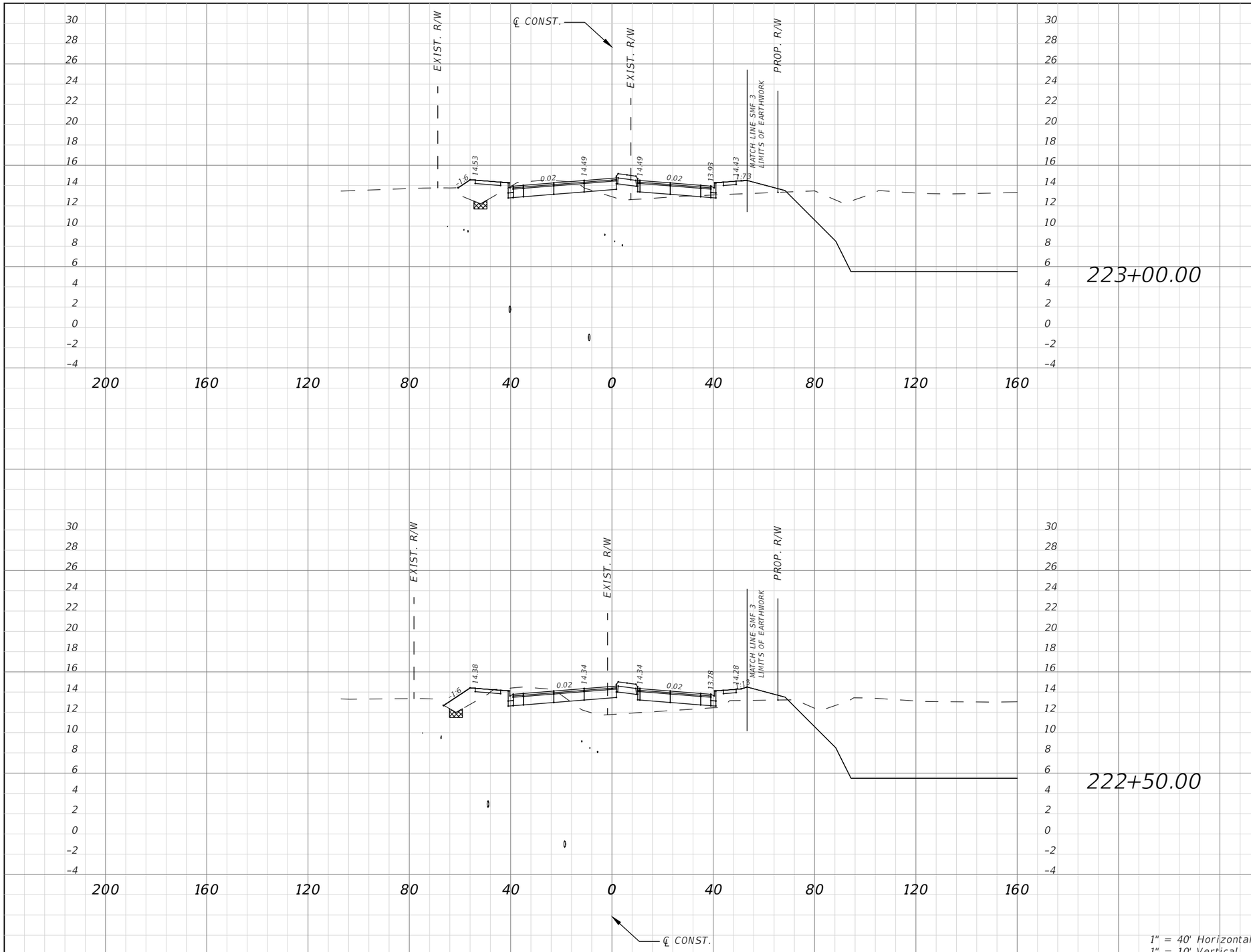
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (41)

SHEET NO.
184

Mitch Johnson 2/6/2019 10:28:57 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	40.35	69.59	63.35	145.16
0.00	0.00	34.80	79.55	93.43	141.59

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

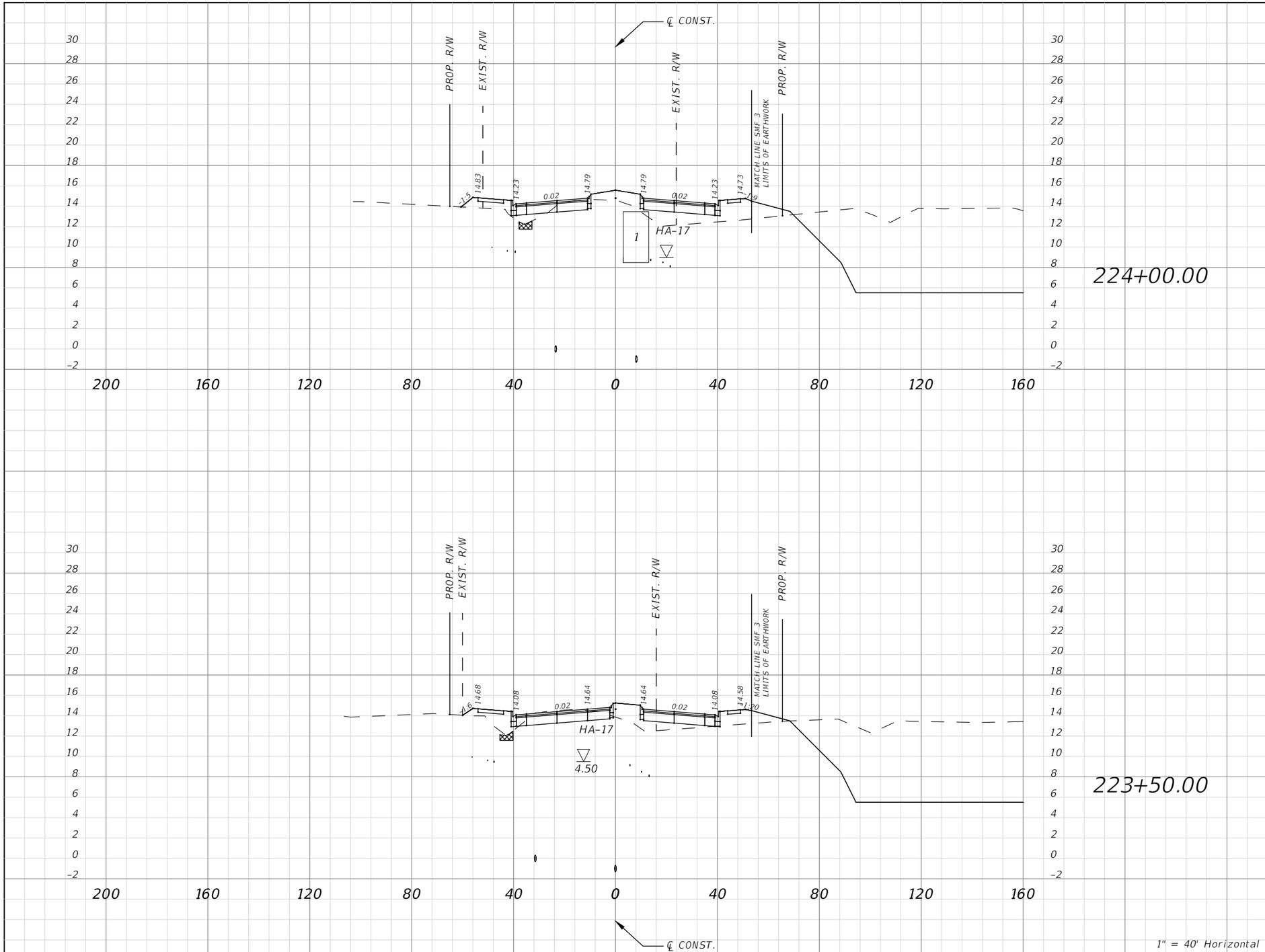
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (42)

SHEET NO.
185

Mitch Johnson 2/6/2019 10:29:43 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	13.64	44.79	95.53	153.53
0.00	0.00	34.74	35.54	70.28	43.26

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
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(813)749-0823
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

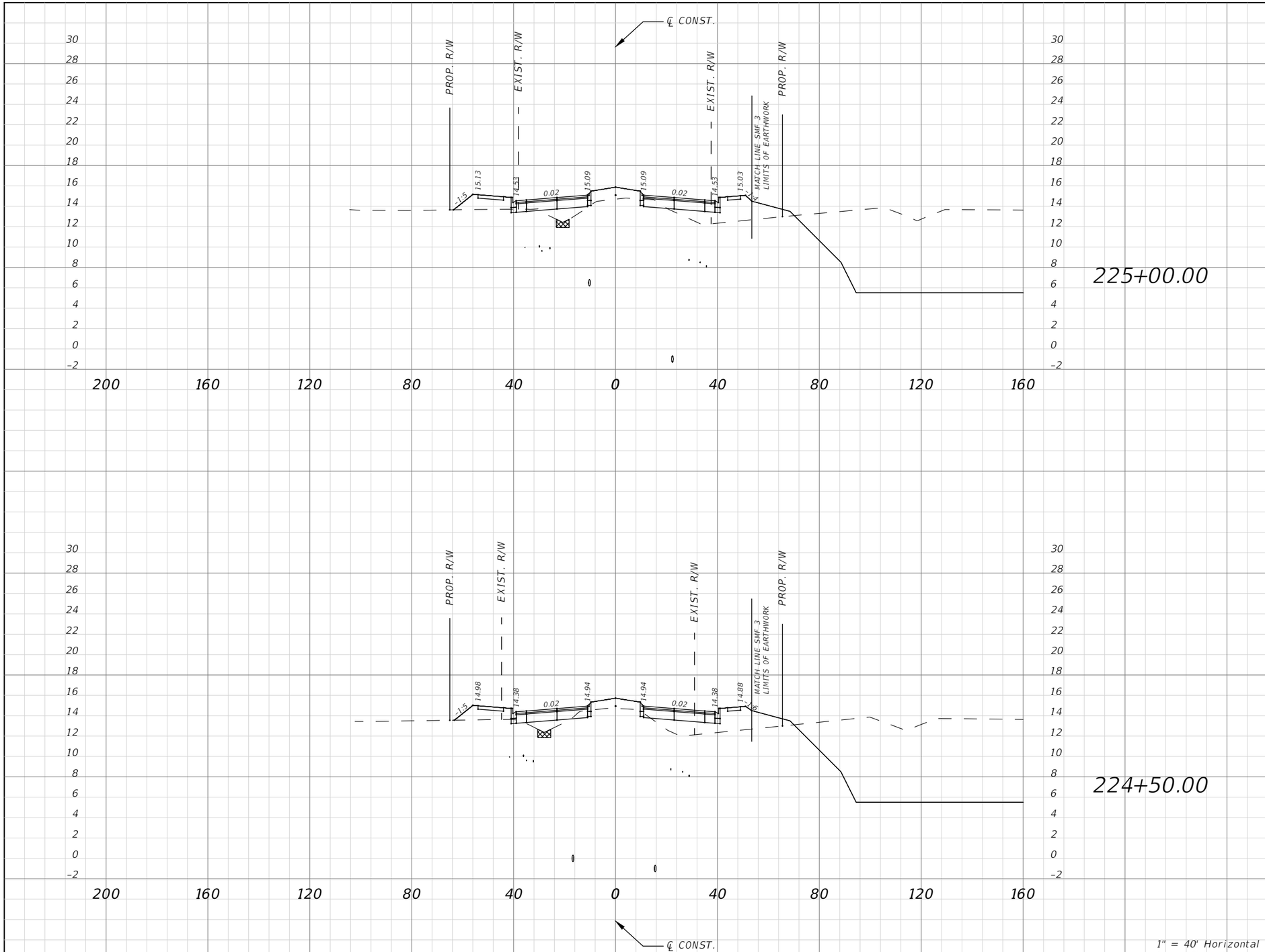
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (43)

SHEET NO.
186

Mitch Johnson 2/6/2019 10:30:29 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	8.54	14.30	101.94	189.61
0.00	0.00	6.90	19.02	102.84	183.68

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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DATE

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

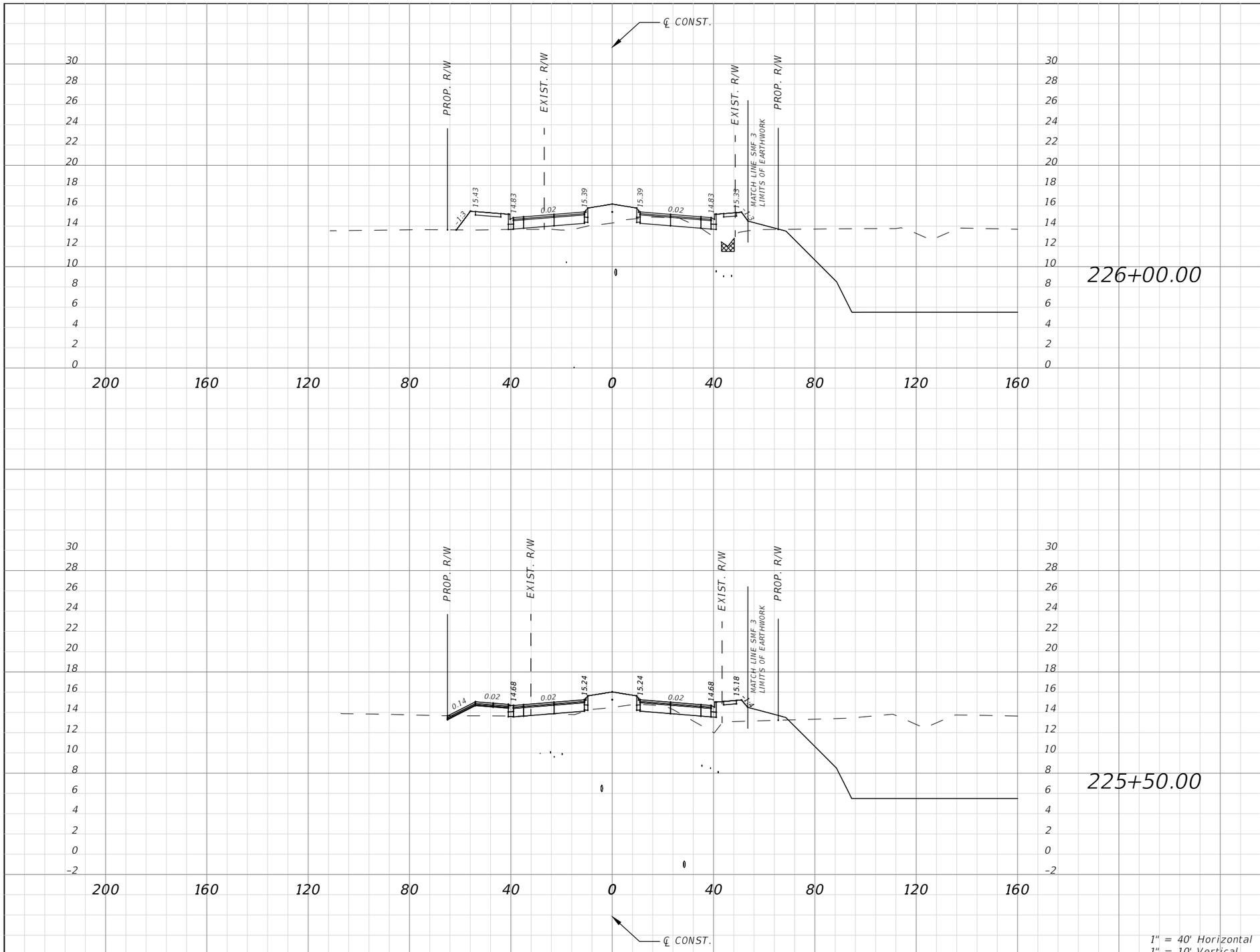
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (44)

SHEET NO.
187

Mitch Johnson 2/6/2019 10:31:15 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
4.48	10.19	15.45	24.71	98.87	163.86
0.00	6.17	11.23	18.31	78.10	166.70

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

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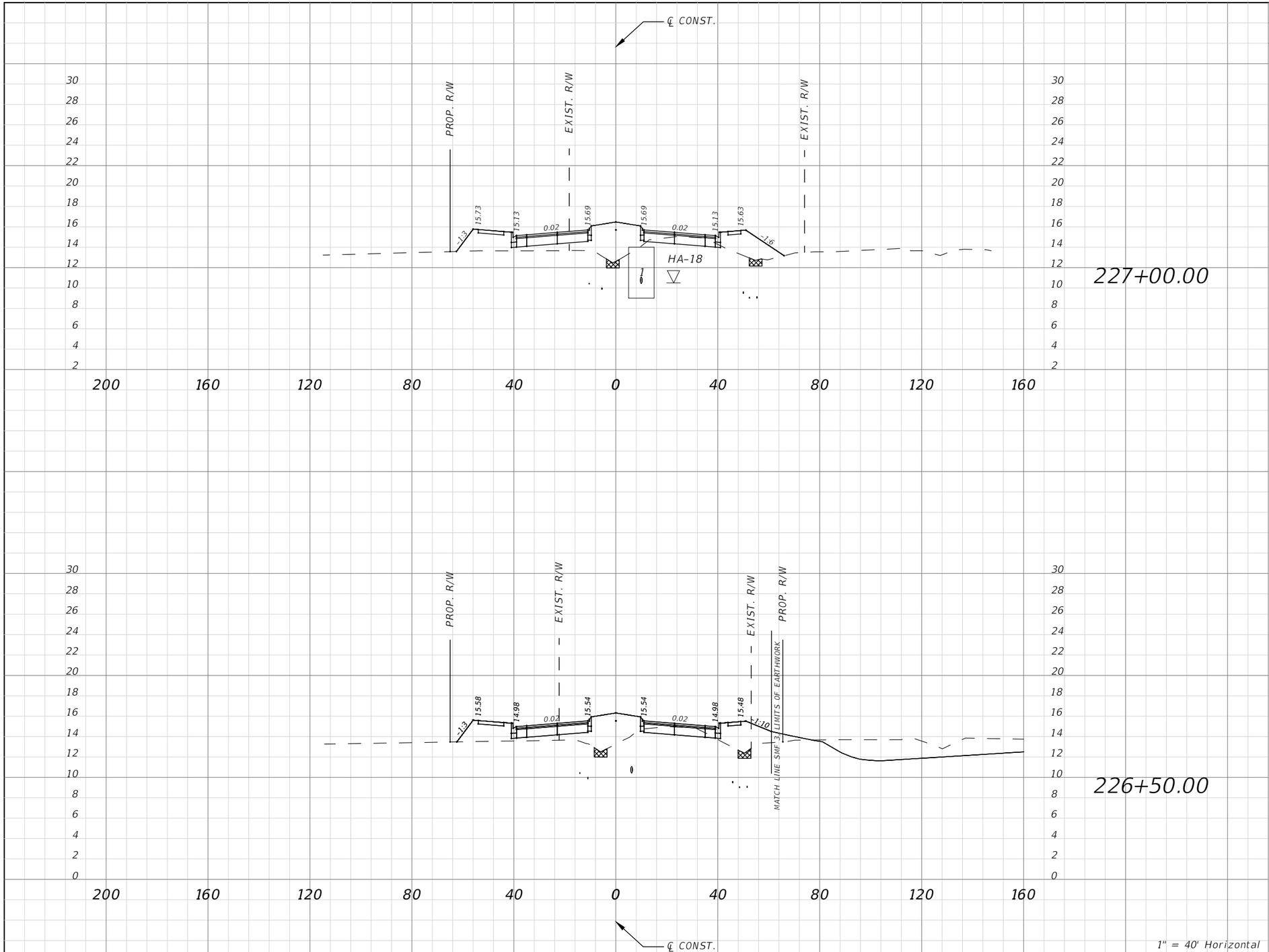
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ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (45)

SHEET NO.
188

Mitch Johnson 2/6/2019 10:32:00 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	16.57	31.47	155.26	278.54
0.00	0.00	17.42	30.44	145.57	226.33

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

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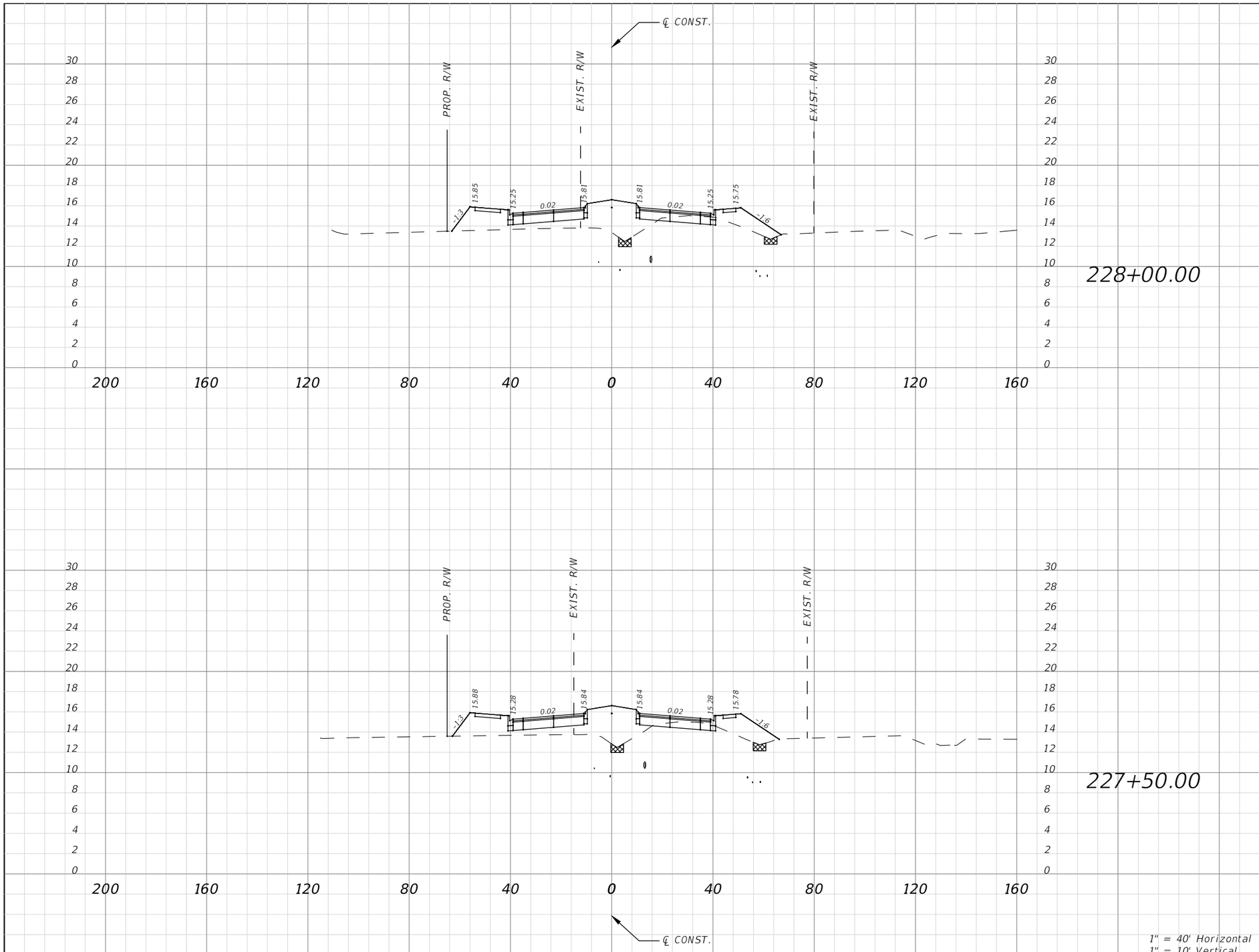
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (46)

SHEET NO.
189

Mitch Johnson 2/6/2019 10:32:46 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	13.39	24.83	156.07	294.16
0.00	0.00	13.43	27.78	161.63	293.42

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

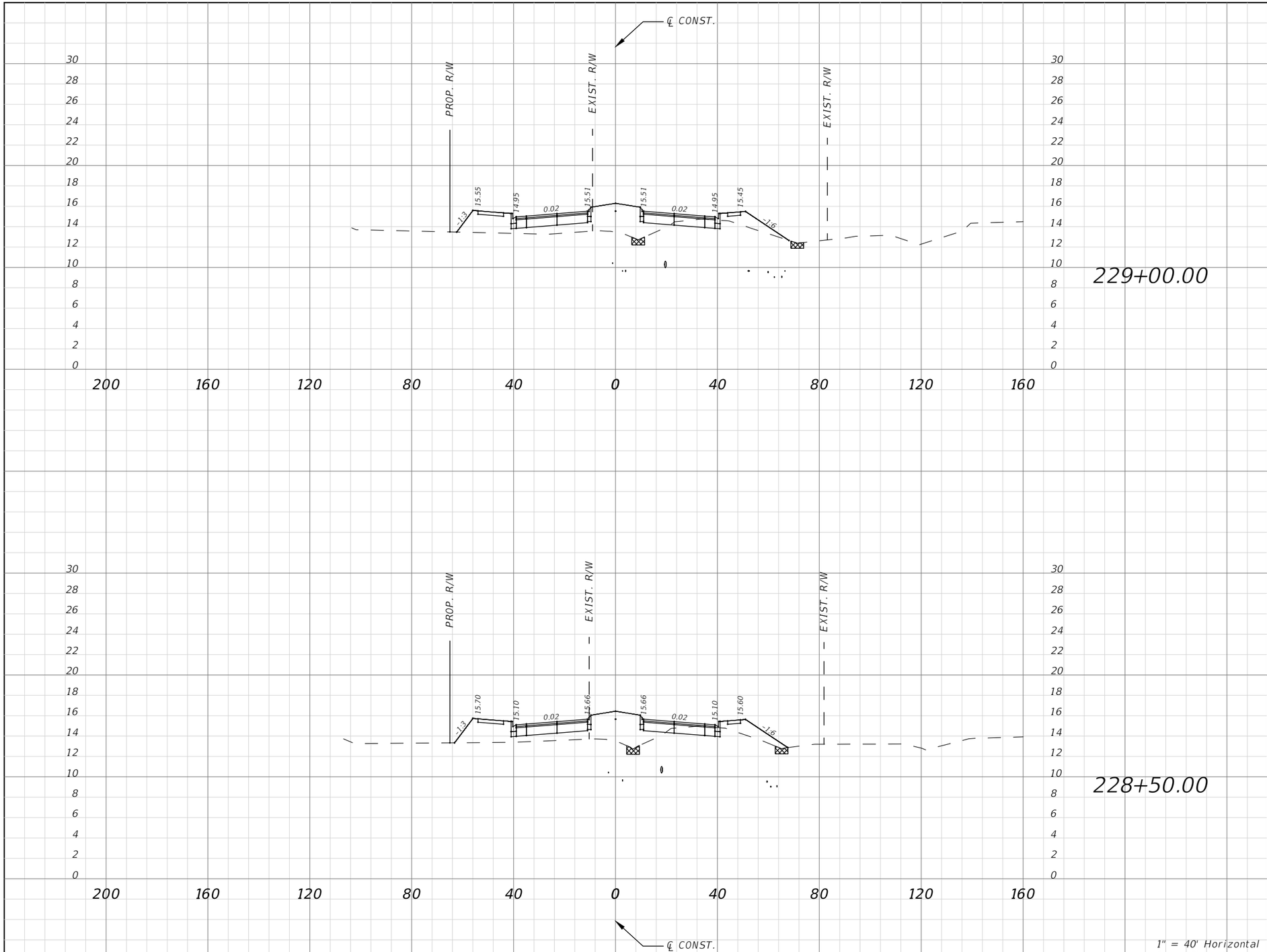
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (47)

SHEET NO.
190

Mitch Johnson 2/6/2019 10:33:32 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	12.30	25.02	141.88	267.68
0.00	0.00	14.73	26.03	147.21	280.81

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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Manatee County FLORIDA
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

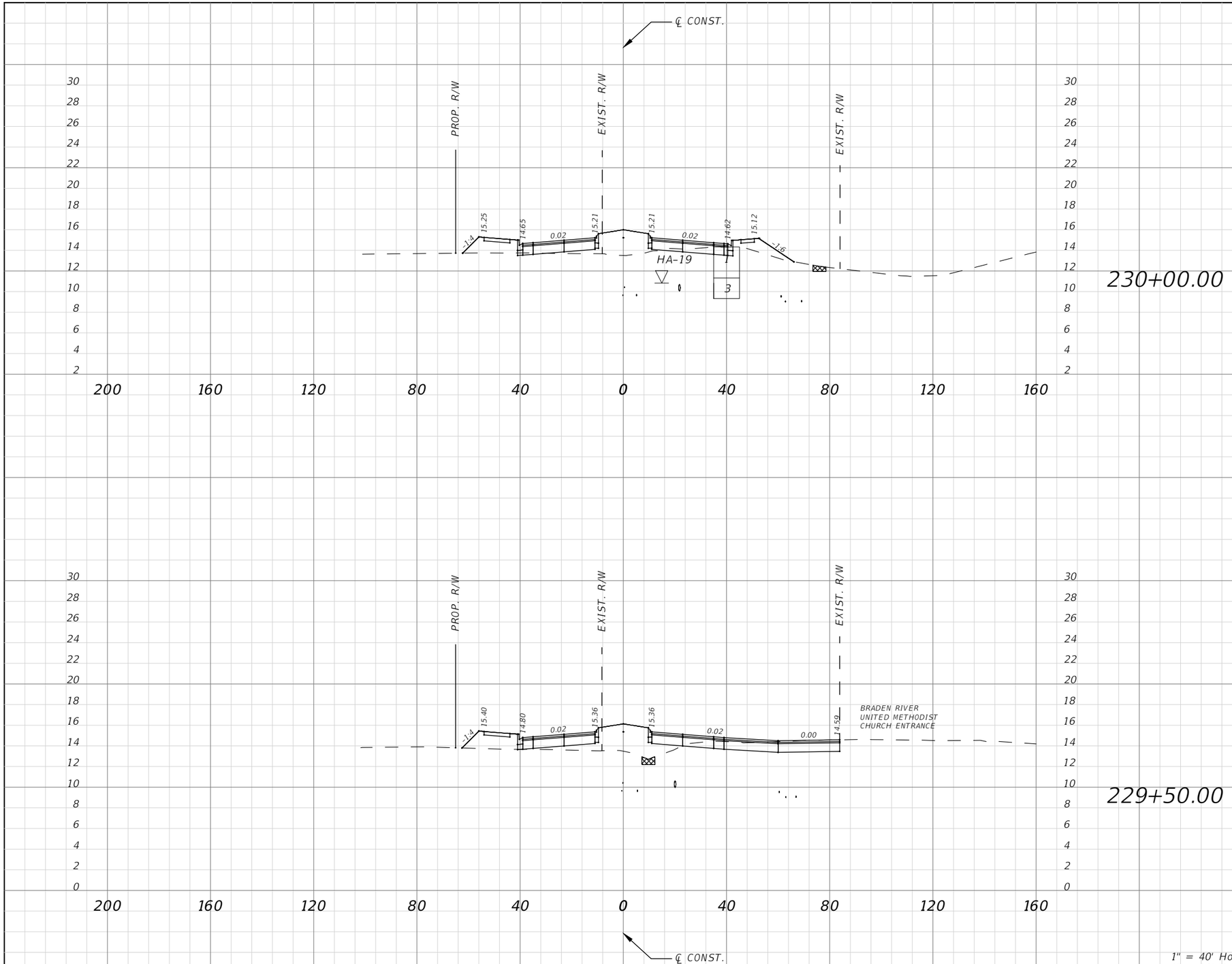
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (48)

SHEET NO.
191

Mitch Johnson 2/6/2019 10:34:18 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
2.28	4.63	14.88	9.12	87.41	47.60
2.72	8.14	51.89	59.43	97.73	221.87

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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P.E. NO. 67495
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DATE

PROJECT NO.
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

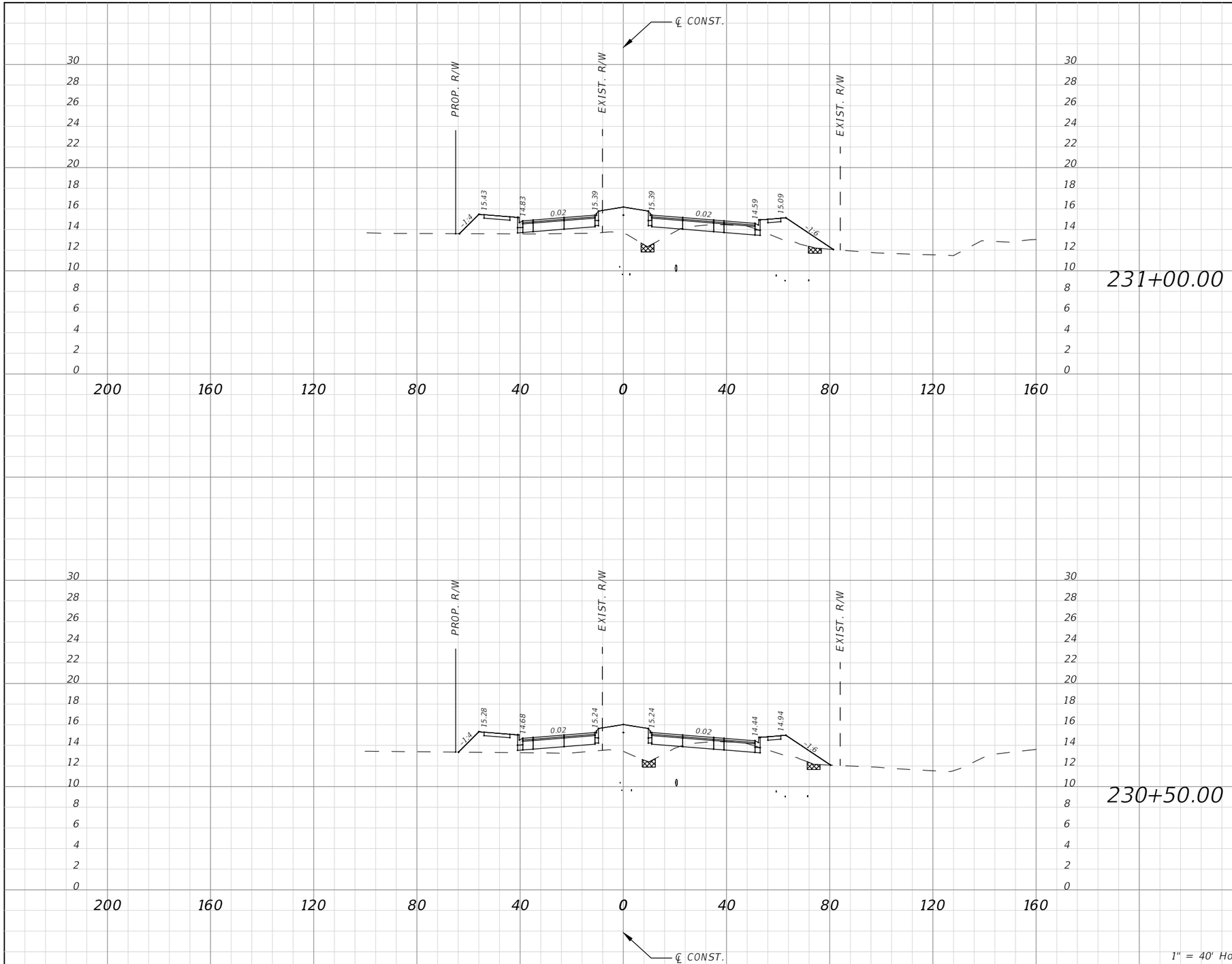
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (49)

SHEET NO.
192

Mitch Johnson 2/6/2019 10:35:04 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	18.51	35.35	141.11	262.14
0.00	0.00	19.67	31.99	141.99	212.41

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

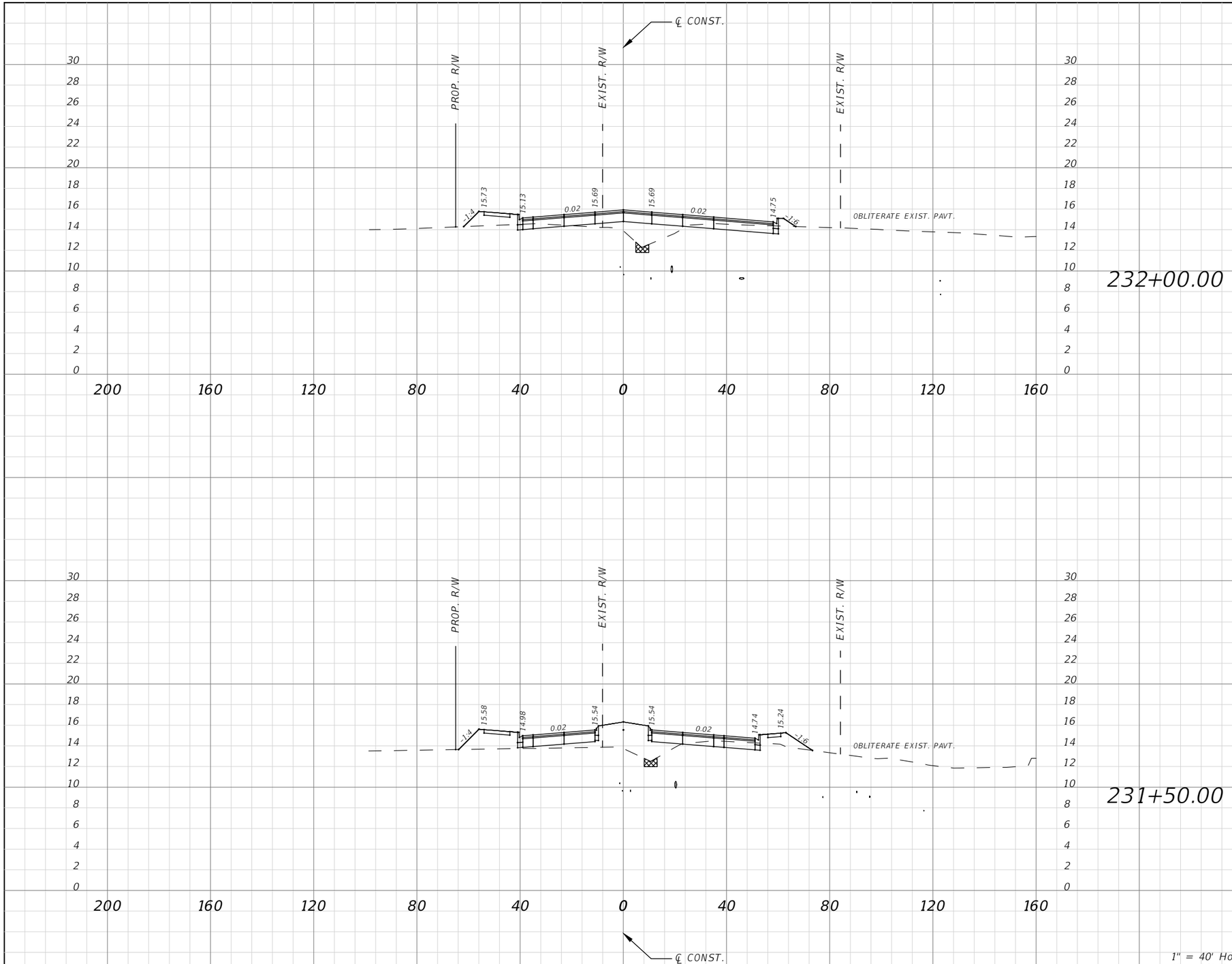
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (50)

SHEET NO.
193

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	25.55	37.40	62.17	168.63
0.00	0.00	14.83	30.87	119.95	241.72

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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TAMPA, FL 33634
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

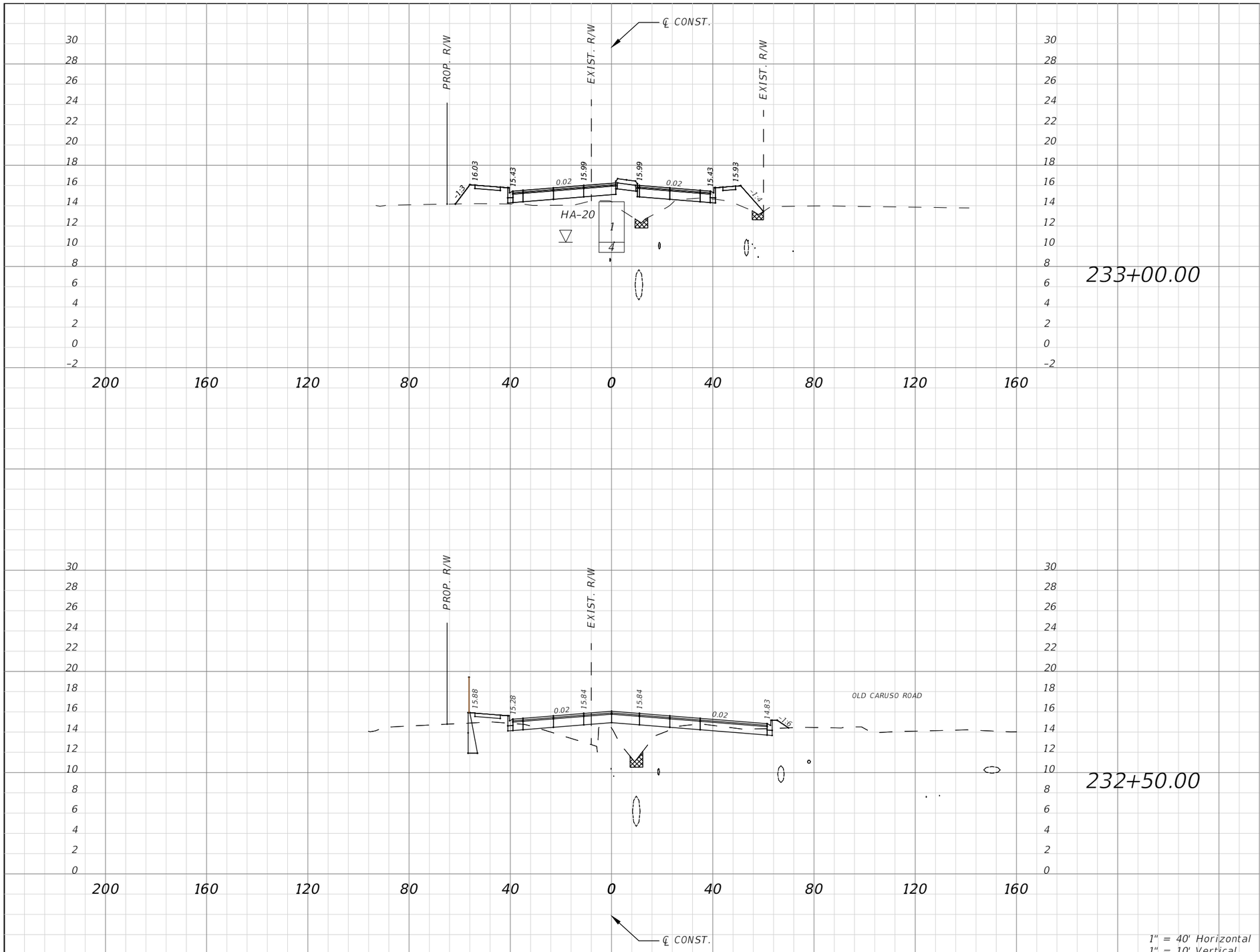
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (51)

SHEET NO.
194

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	3.91	35.81	114.21	181.30
0.00	0.00	34.76	32.76	81.60	63.55

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
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TAMPA, FL 33634
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DATE

PROJECT NO. 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

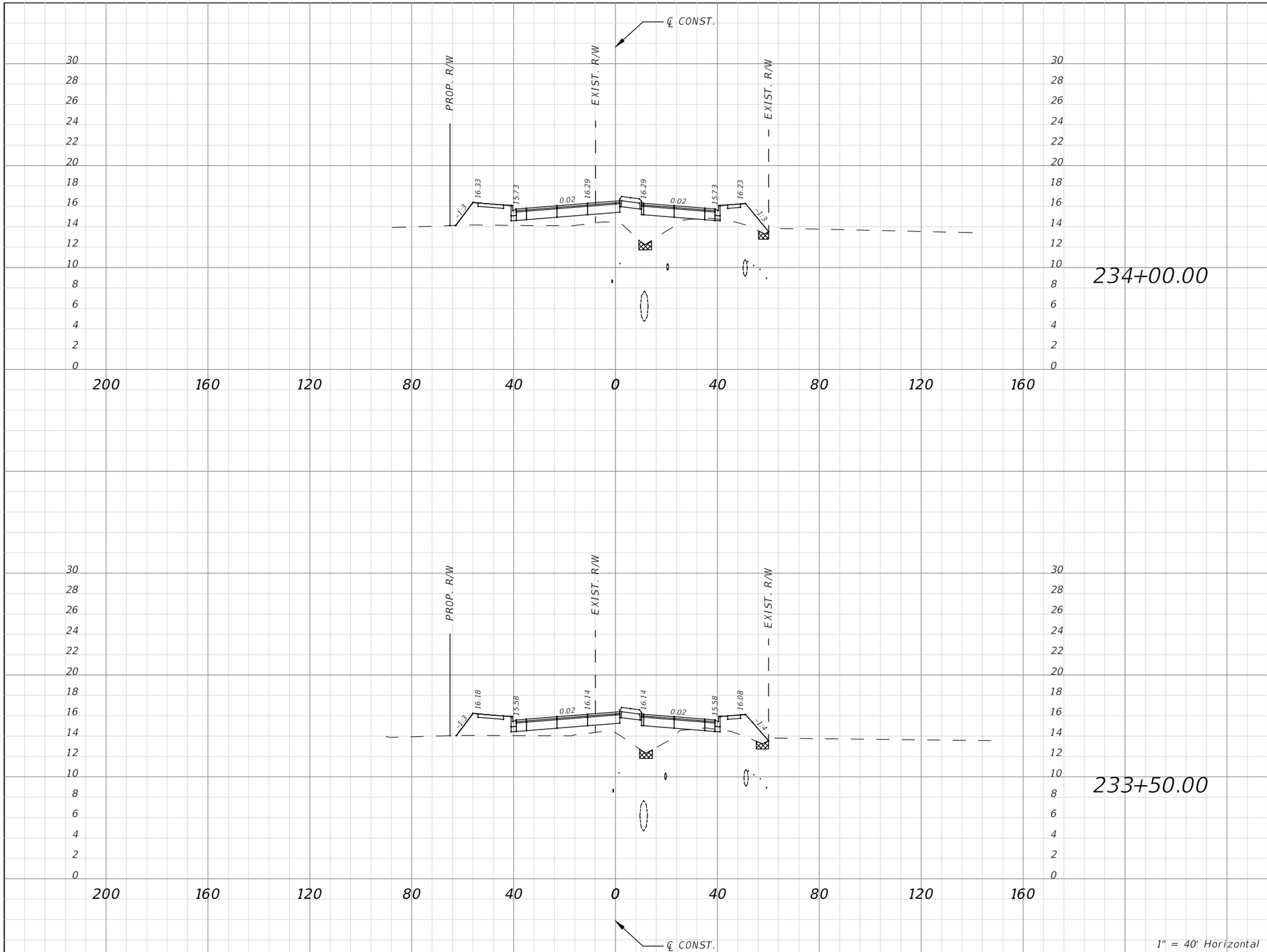
DESIGN ENGINEER ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

CROSS SECTION (52)

SHEET NO. 195

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	1.36	3.27	142.95	257.85
0.00	0.00	2.17	5.63	135.53	231.24

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
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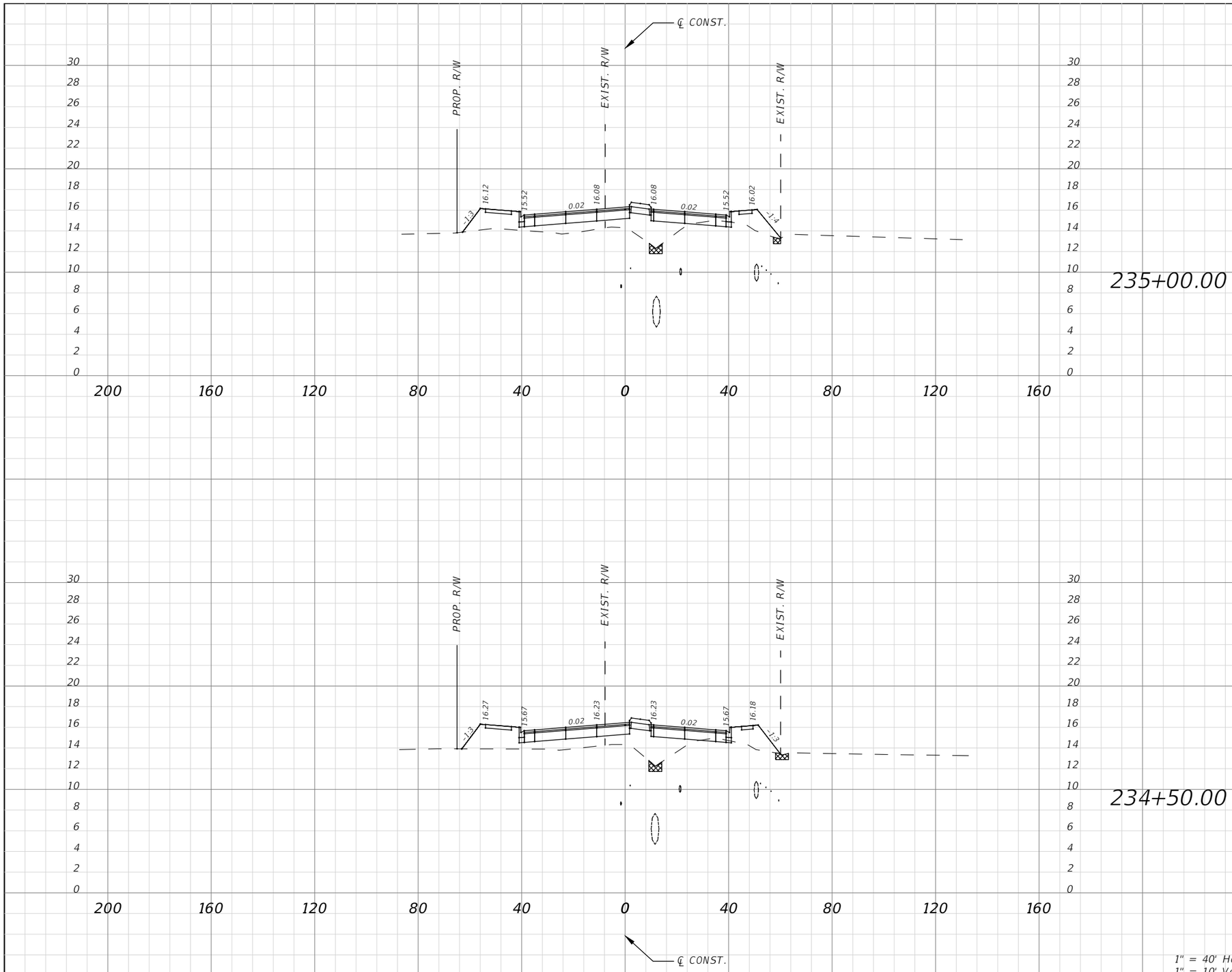
DESIGN ENGINEER
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CROSS SECTION (53)

SHEET NO.
196

Mitch Johnson 2/6/2019 10:38:08 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	5.75	6.62	127.53	199.88
0.00	0.00	2.57	3.64	149.42	270.72

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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5110 EISENHOWER BOULEVARD, SUITE 310
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DATE

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6086960

Manatee County FLORIDA
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

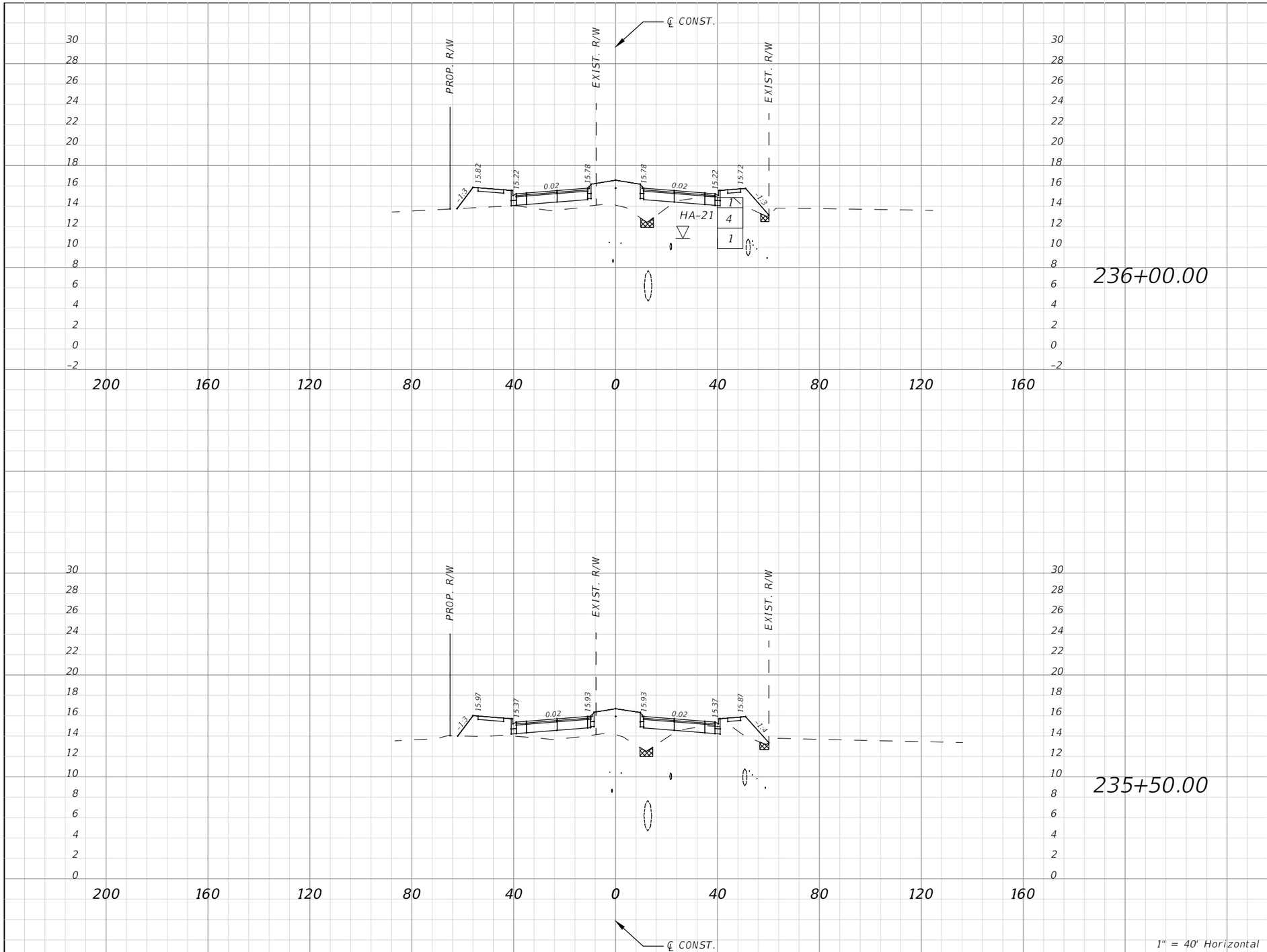
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (54)

SHEET NO.
197

Mitch Johnson 2/6/2019 10:38:54 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	9.94	16.56	129.71	249.03
0.00	0.00	7.94	12.68	139.24	247.01

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

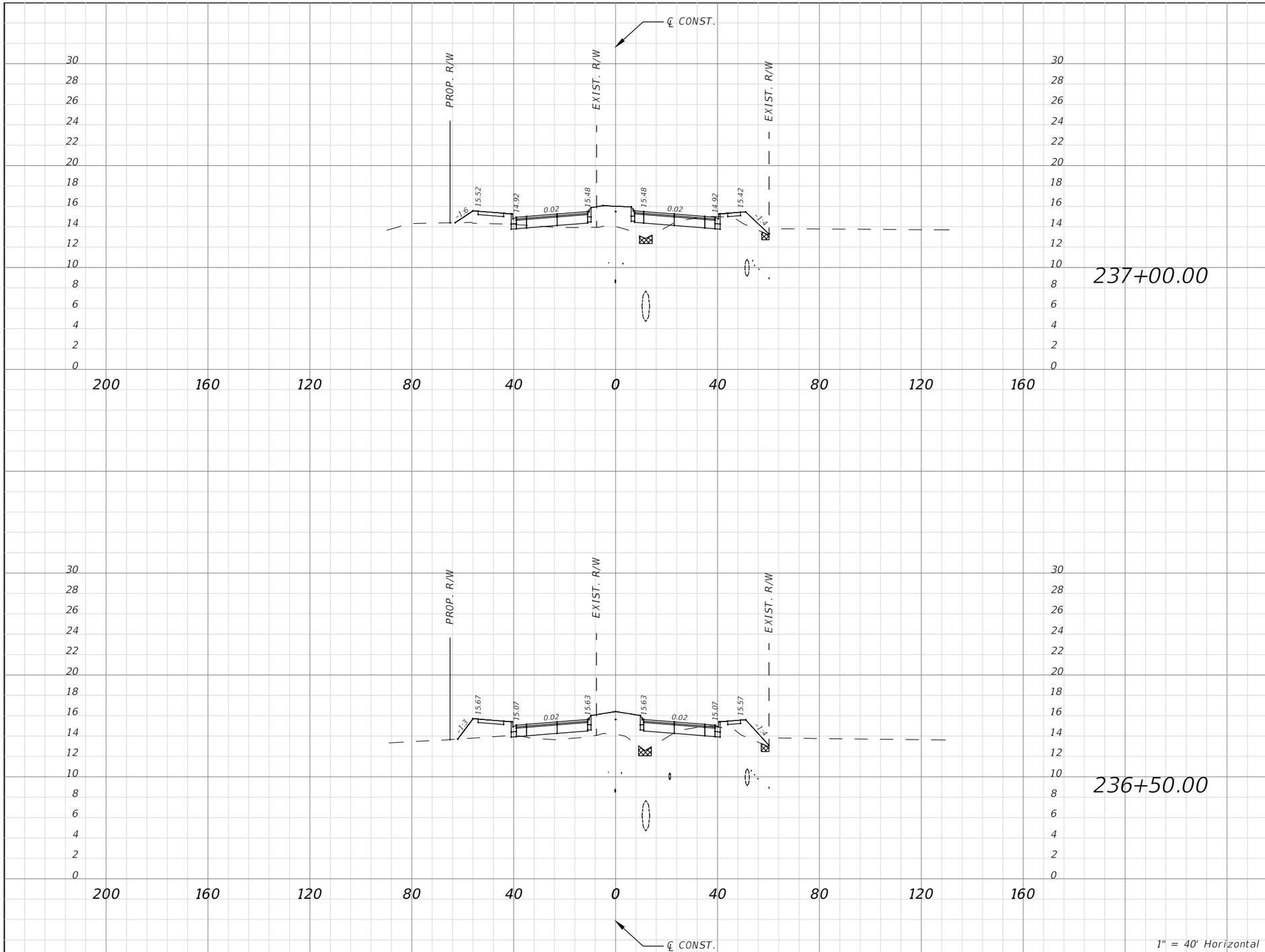
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (55)

SHEET NO.
198

Mitch Johnson 2/6/2019 10:39:40 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	19.26	30.27	80.46	180.49
0.00	0.00	13.43	21.64	114.47	226.10

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

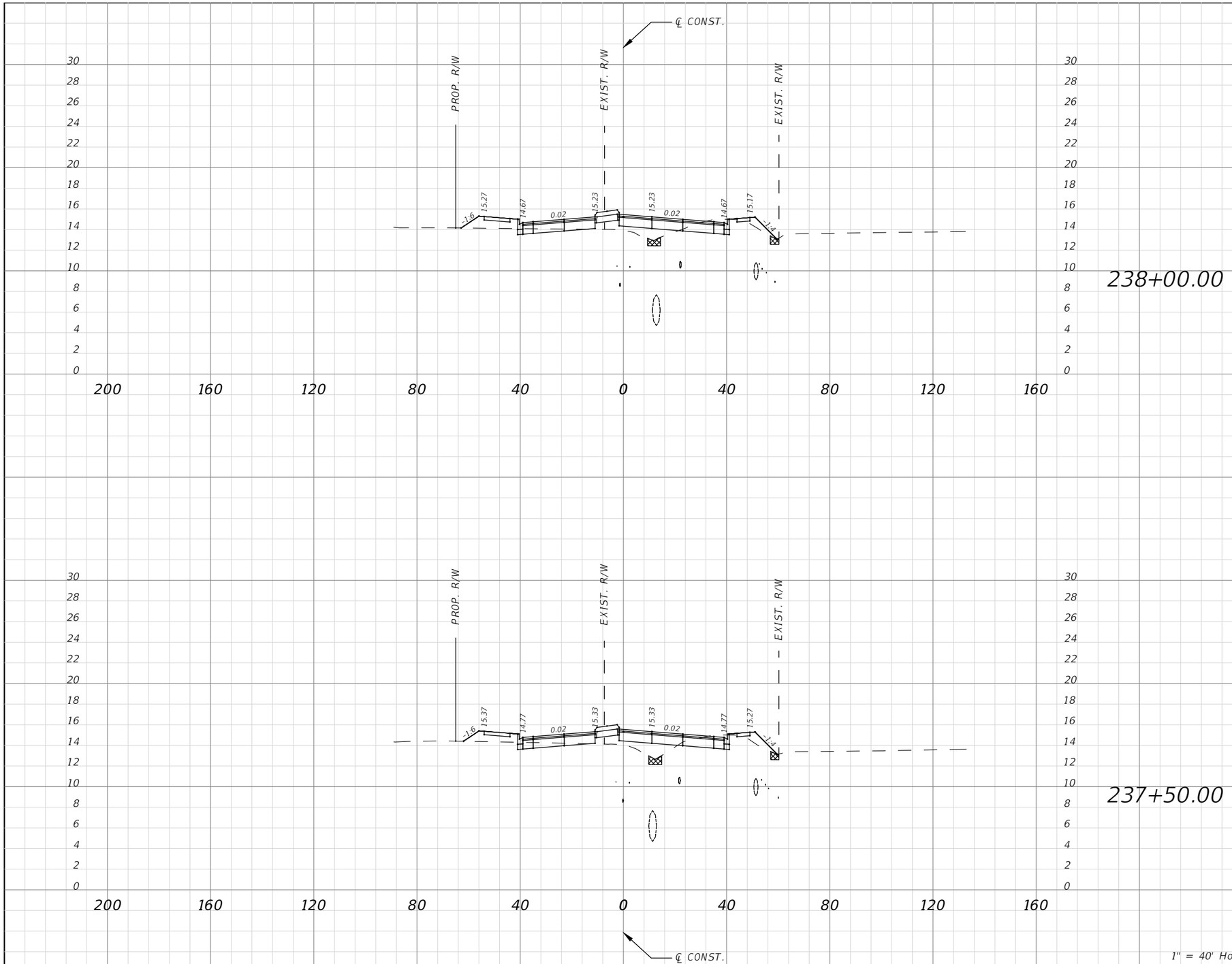
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67495

CROSS SECTION (56)

SHEET NO.
199

Mitch Johnson 2/6/2019 10:40:26 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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1" = 40' Horizontal
1" = 10' Vertical

Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	27.38	51.72	44.31	84.03
0.00	0.00	28.47	22.03	46.44	30.62

No.	REVISIONS	DATE	BY

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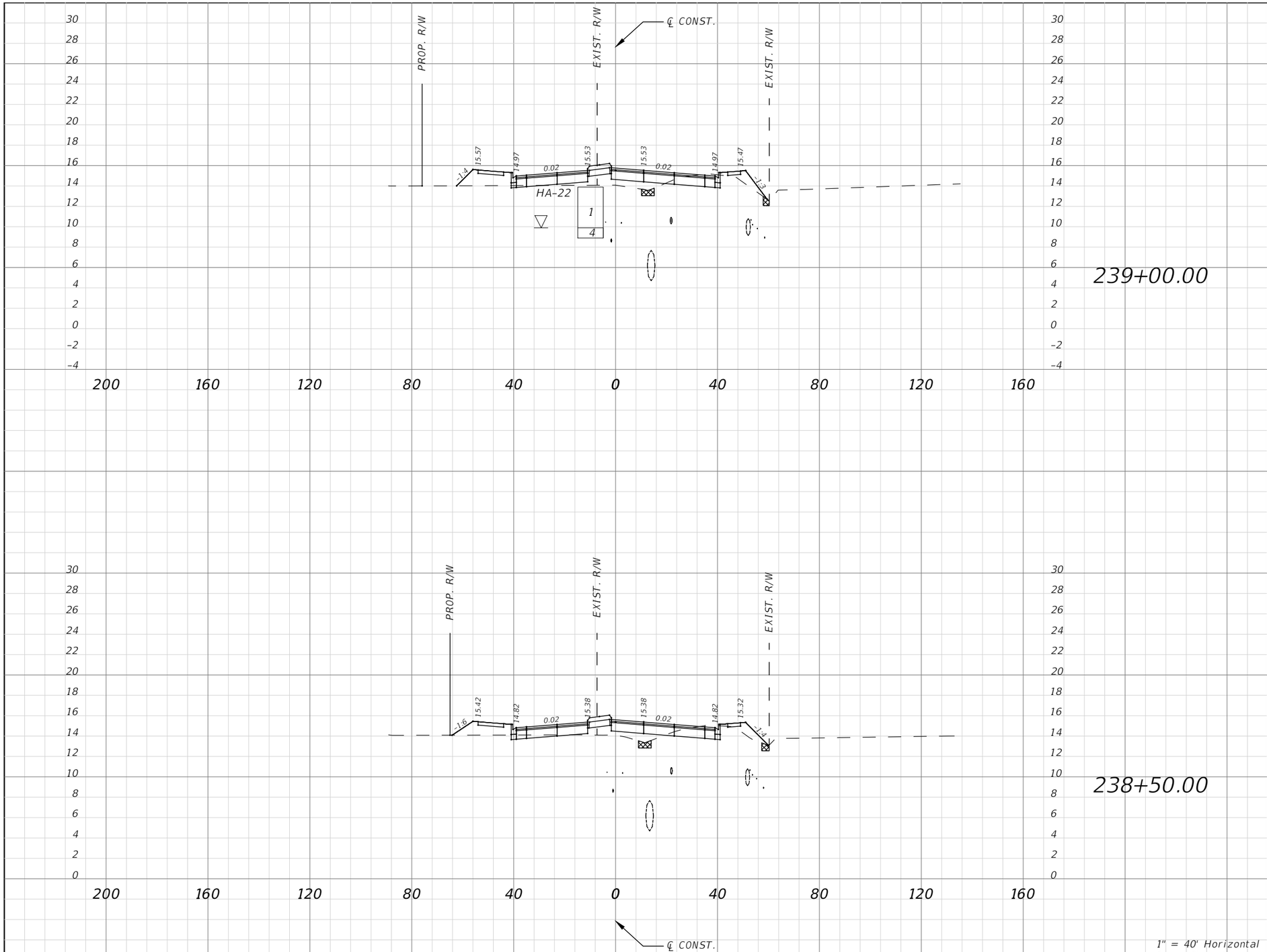
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67495

CROSS SECTION (57)

SHEET NO.
200

Mitch Johnson 2/6/2019 10:41:12 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	20.65	42.06	57.66	98.78
0.00	0.00	24.77	48.30	49.02	86.42

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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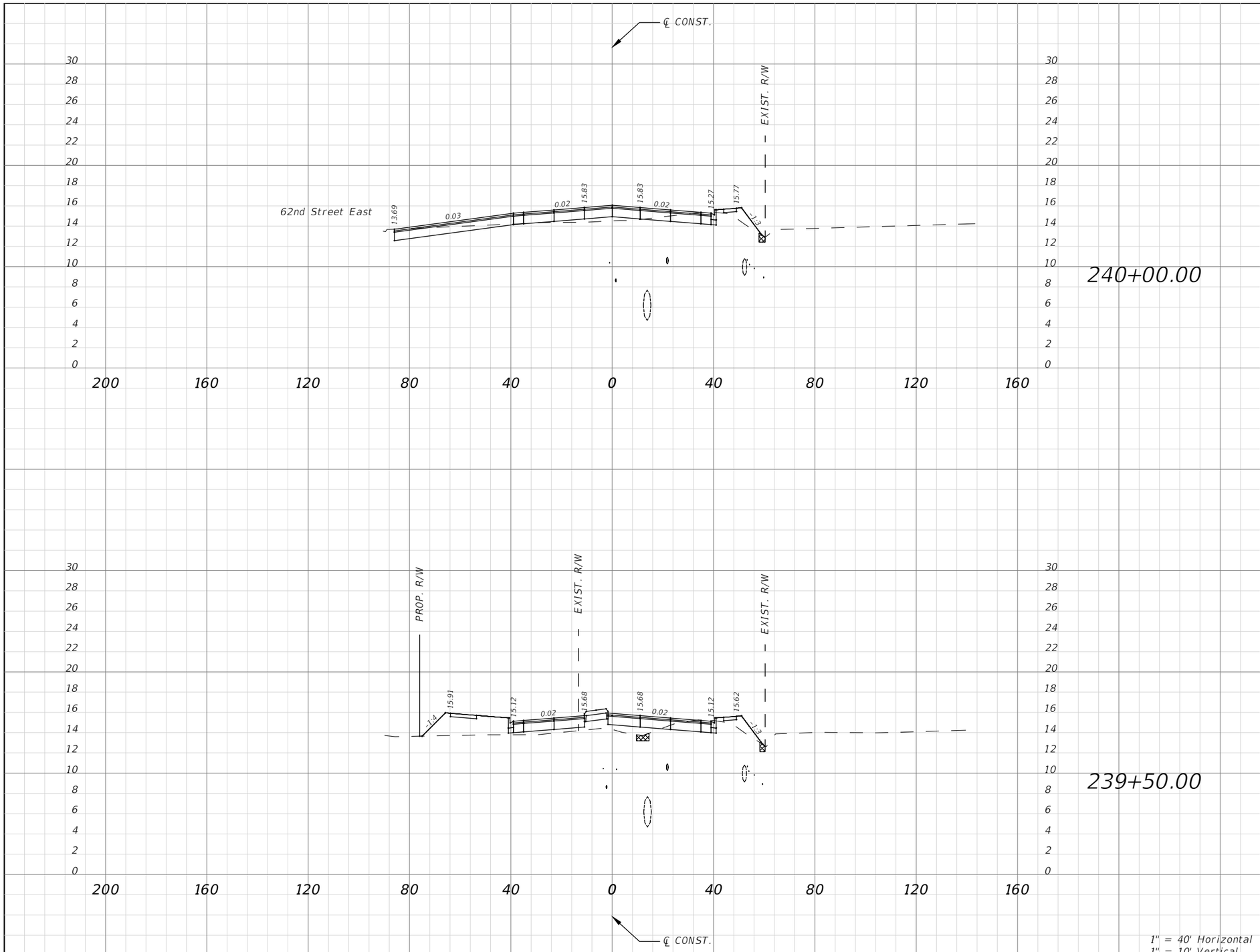
DESIGN ENGINEER
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CROSS SECTION (58)

SHEET NO.
201

Mitch Johnson 2/6/2019 10:41:58 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	48.27	62.01	20.44	108.39
0.00	0.00	18.69	36.43	96.63	142.86

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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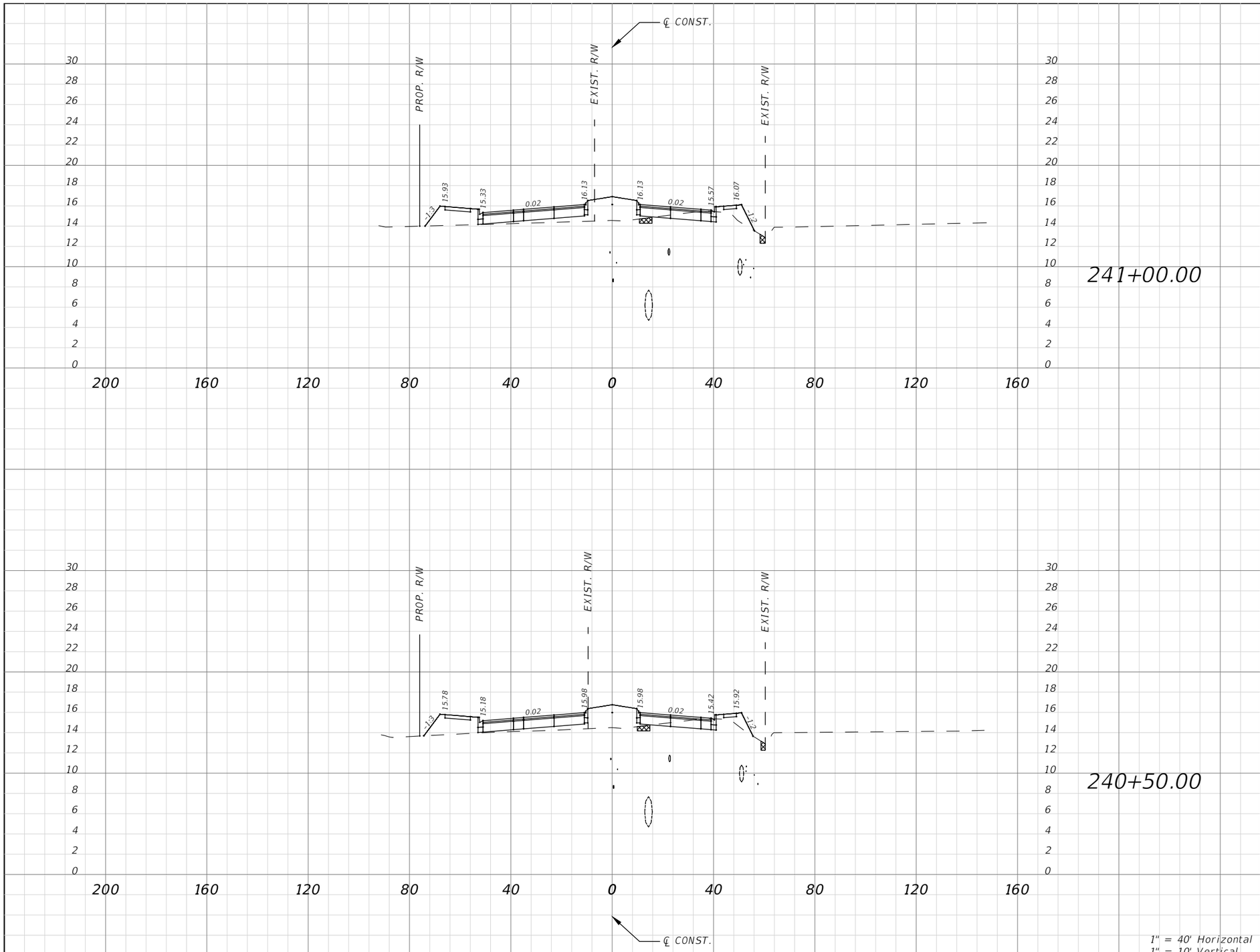
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CROSS SECTION (59)

SHEET NO.
202

Mitch Johnson 2/6/2019 10:42:44 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	14.53	28.13	96.59	175.71
0.00	0.00	15.85	59.38	93.17	105.19

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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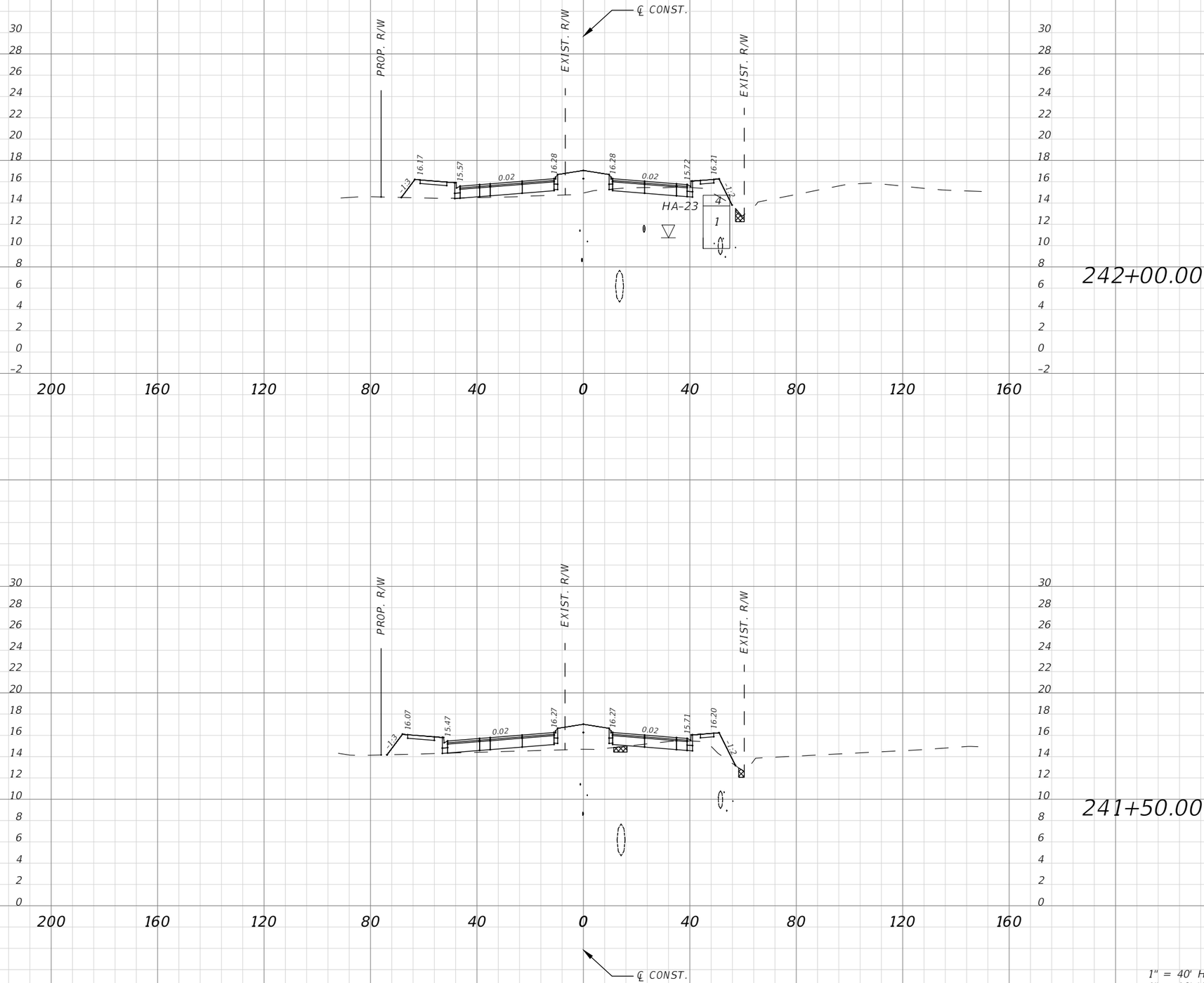
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CROSS SECTION (60)

SHEET NO.
203

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
3.59	9.38	17.49	28.00	82.37	166.15
0.00	0.00	12.75	25.26	97.06	179.31

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

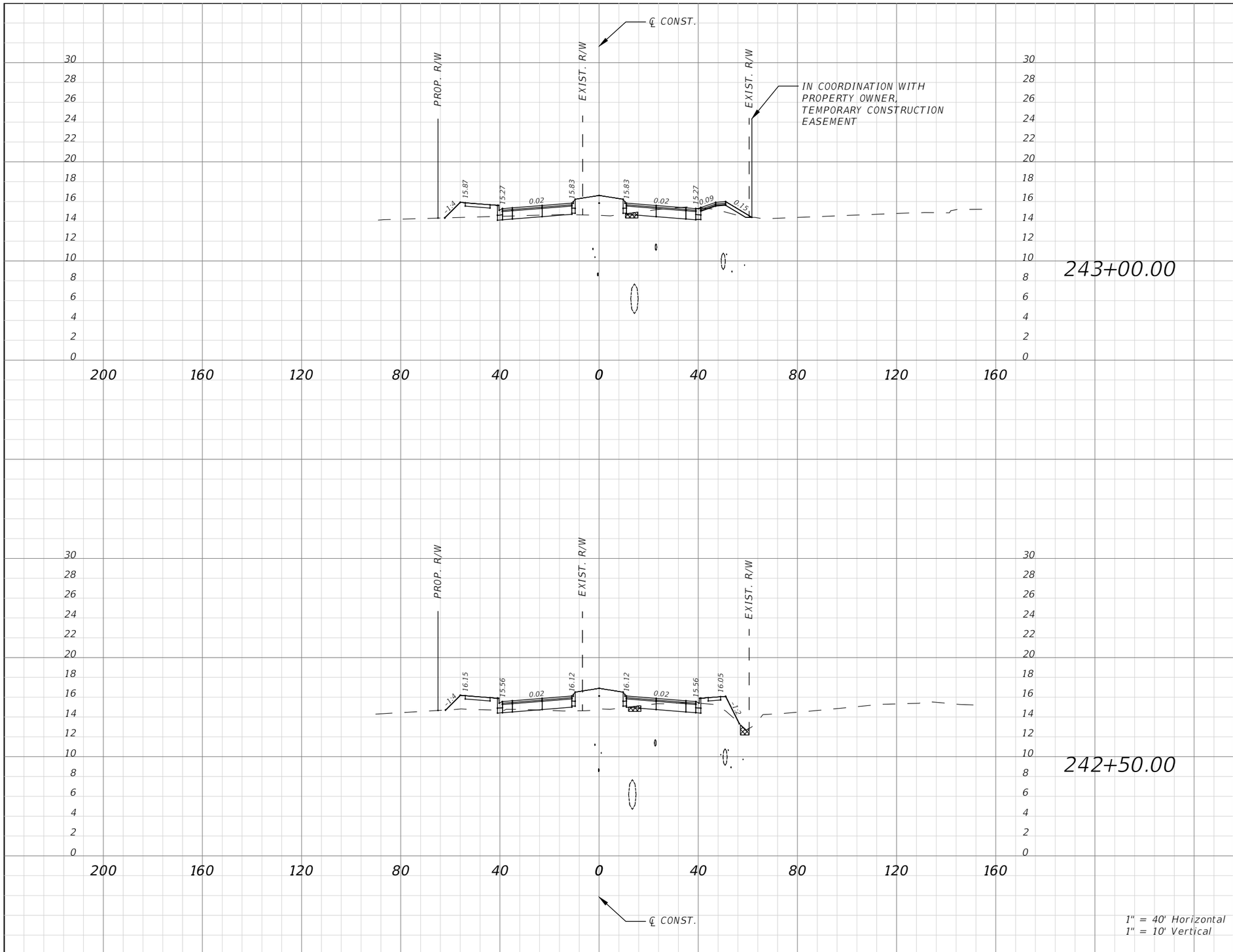
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (61)

SHEET NO.
204

Mitch Johnson 2/6/2019 10:44:16 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD02.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.30	5.98	29.67	46.98	65.22	127.45
0.00	0.00	21.07	19.05	72.43	72.23

No.	REVISIONS	DATE	BY

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ROBERT EDWARD HIDECK, P.E.
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DATE

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

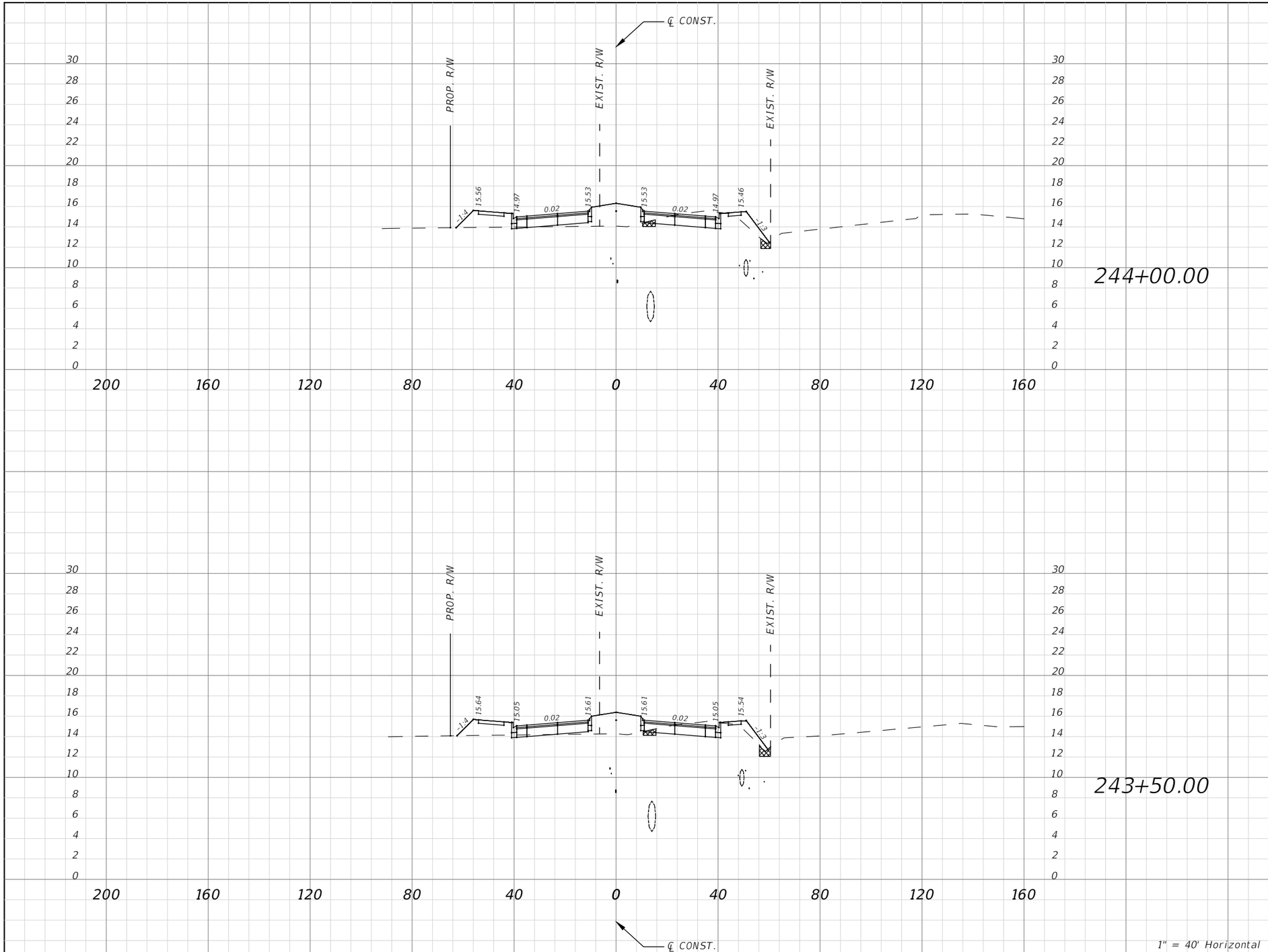
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (62)

SHEET NO.
205

Mitch Johnson 2/6/2019 10:47:28 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	33.02	59.25	78.95	138.62
0.00	0.00	30.97	56.15	70.77	125.91

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

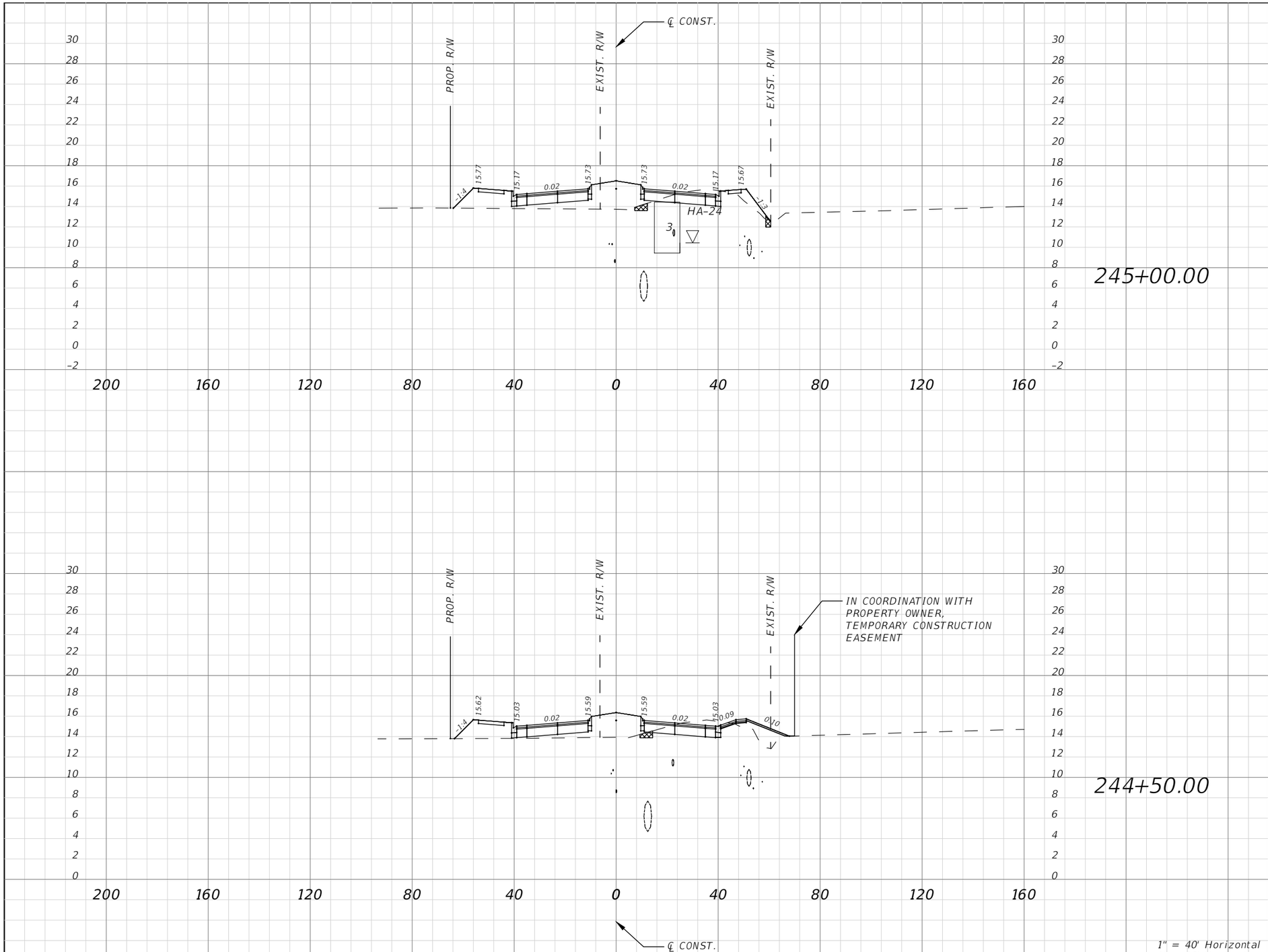
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (63)

SHEET NO.
206

Mitch Johnson 2/6/2019 10:48:18 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	27.55	55.82	110.04	196.77
0.05	5.65	32.74	60.89	102.47	167.98

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

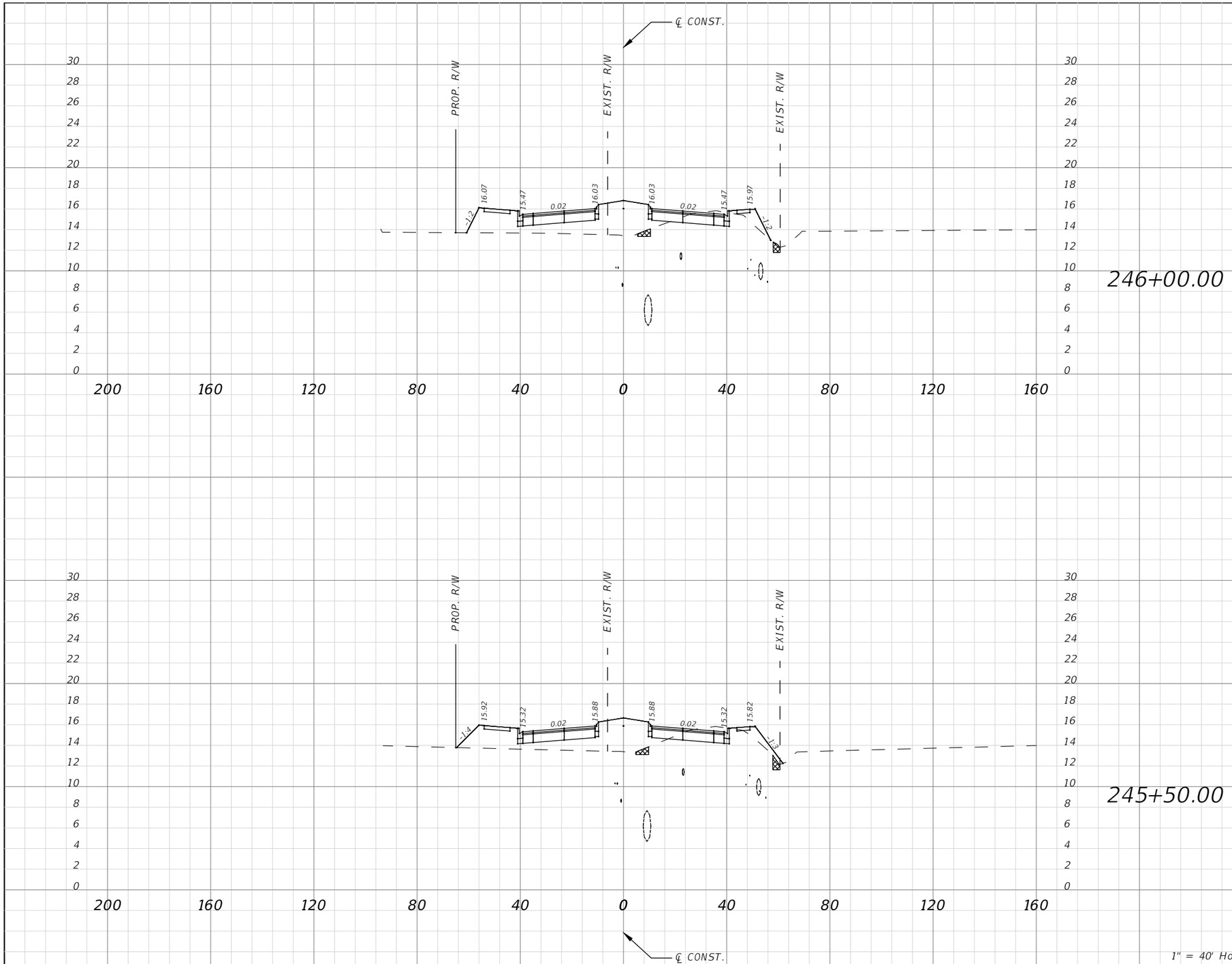
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (64)

SHEET NO.
207

Mitch Johnson 2/6/2019 10:49:08 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	22.03	44.07	142.89	261.81
0.00	0.00	25.56	49.17	139.86	231.39

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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1022 26th Avenue East, Bradenton, FL 34208

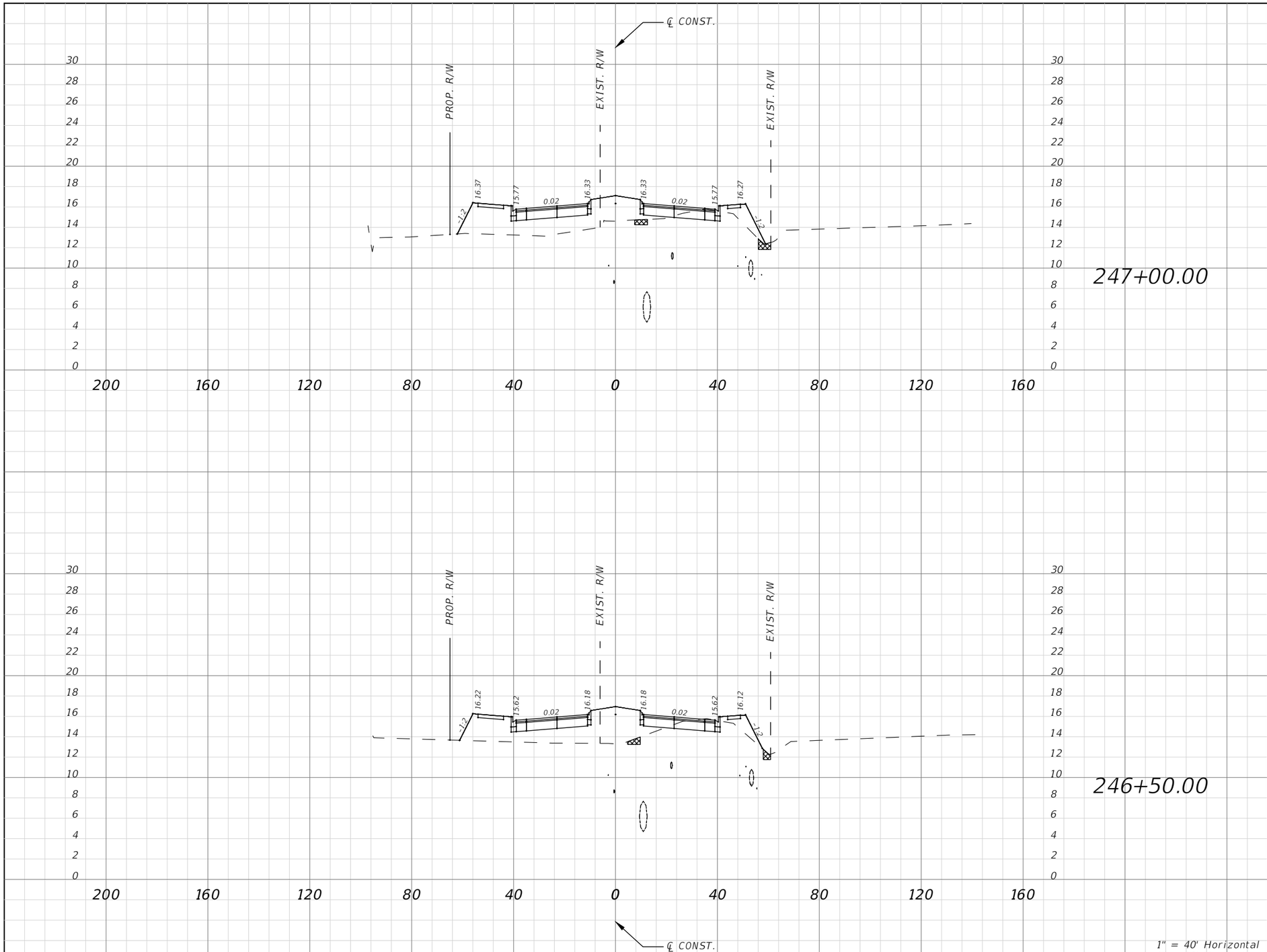
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (65)

SHEET NO.
208

Mitch Johnson 2/6/2019 10:49:59 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	14.09	29.69	168.02	311.36
0.00	0.00	17.97	37.04	168.25	288.09

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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DATE

PROJECT NO.
6086960

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1022 26th Avenue East, Bradenton, FL 34208

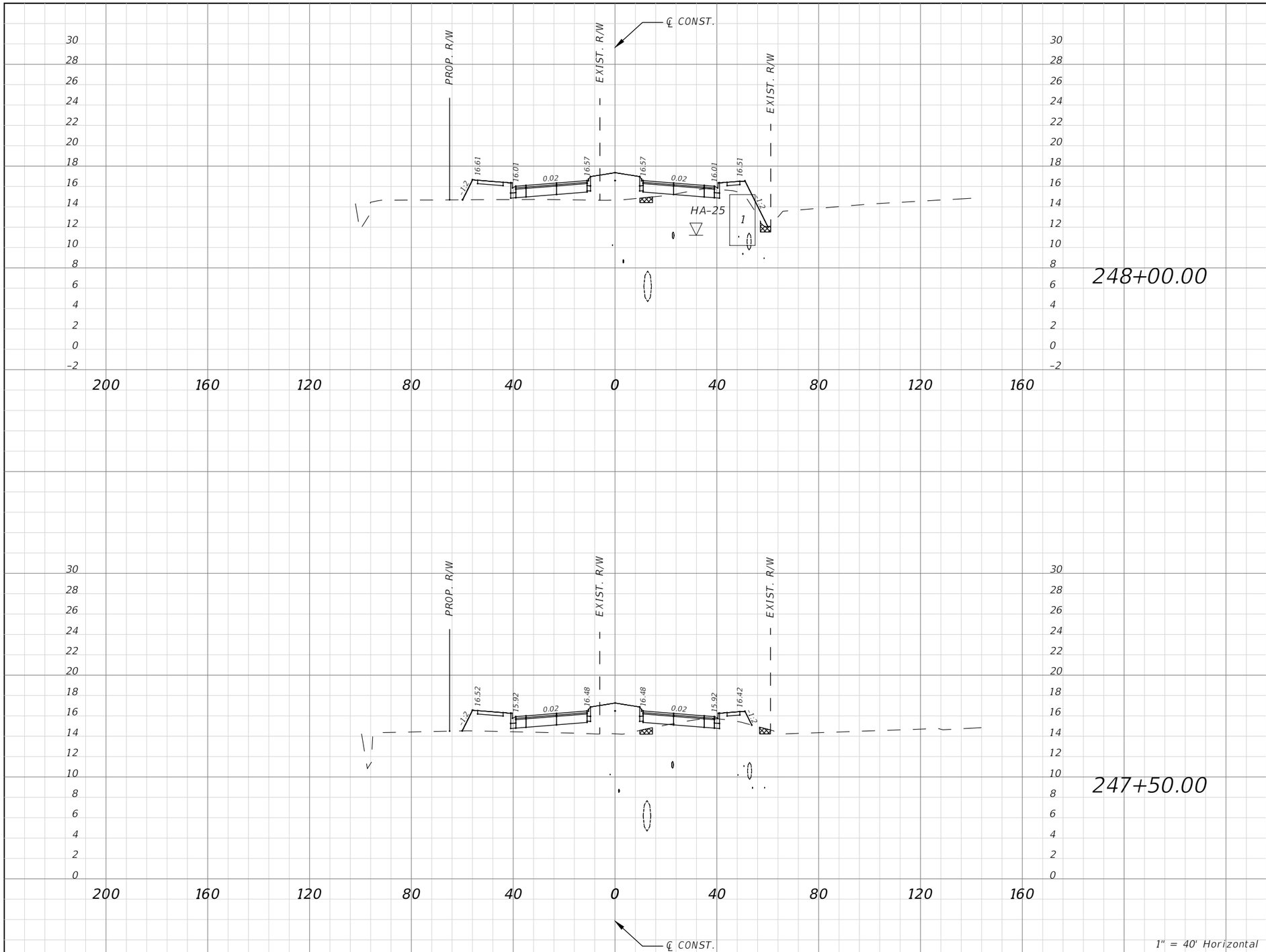
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (66)

SHEET NO.
209

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	10.02	11.64	110.45	139.38
0.00	0.00	11.85	9.93	118.87	109.14

No.	REVISIONS	DATE	BY

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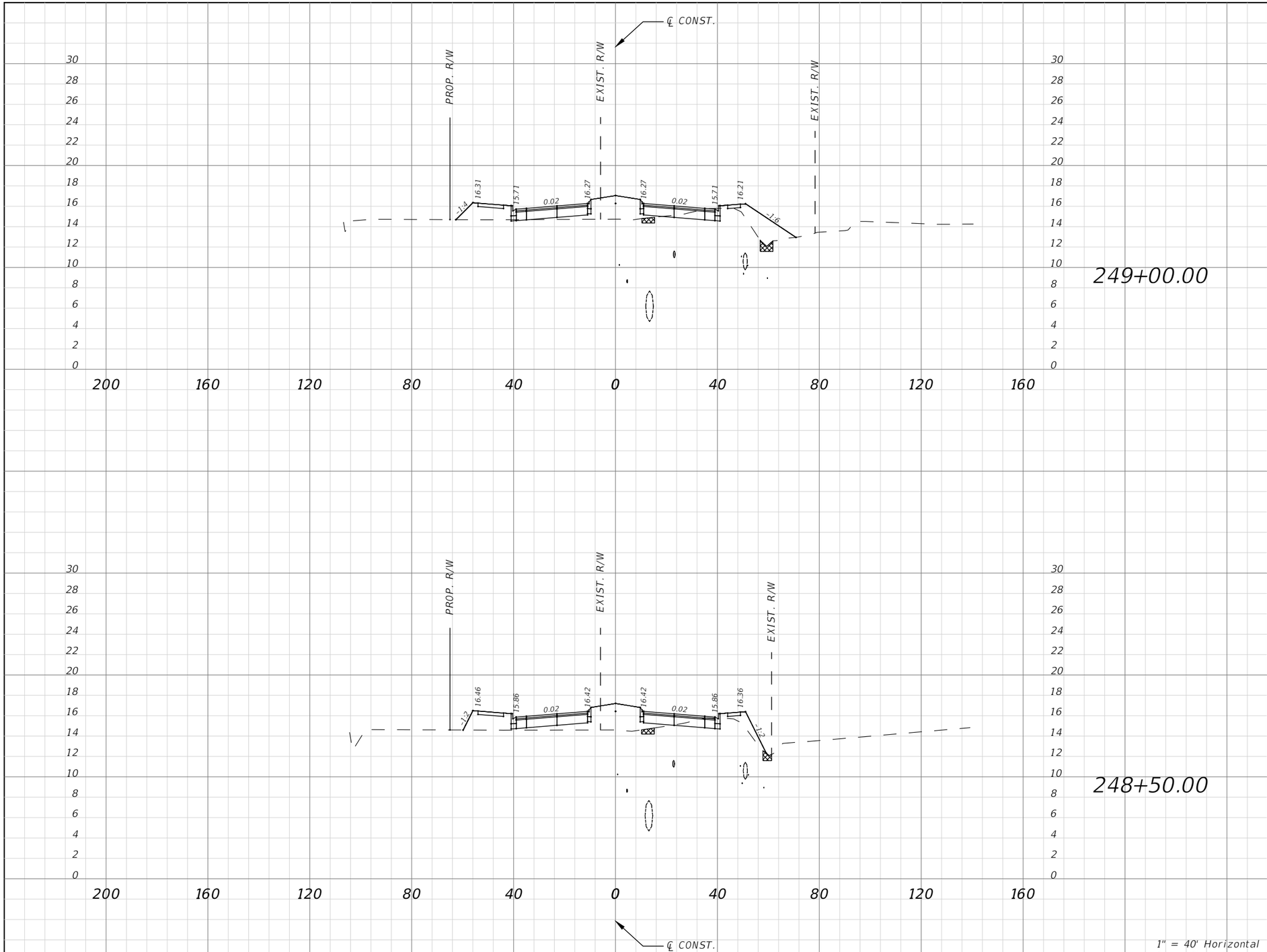
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FL. LICENSE NO.
67495

CROSS SECTION (67)

SHEET NO.
210

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	15.15	24.85	109.72	199.11
0.00	0.00	11.69	12.87	105.31	113.07

No.	REVISIONS	DATE	BY

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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

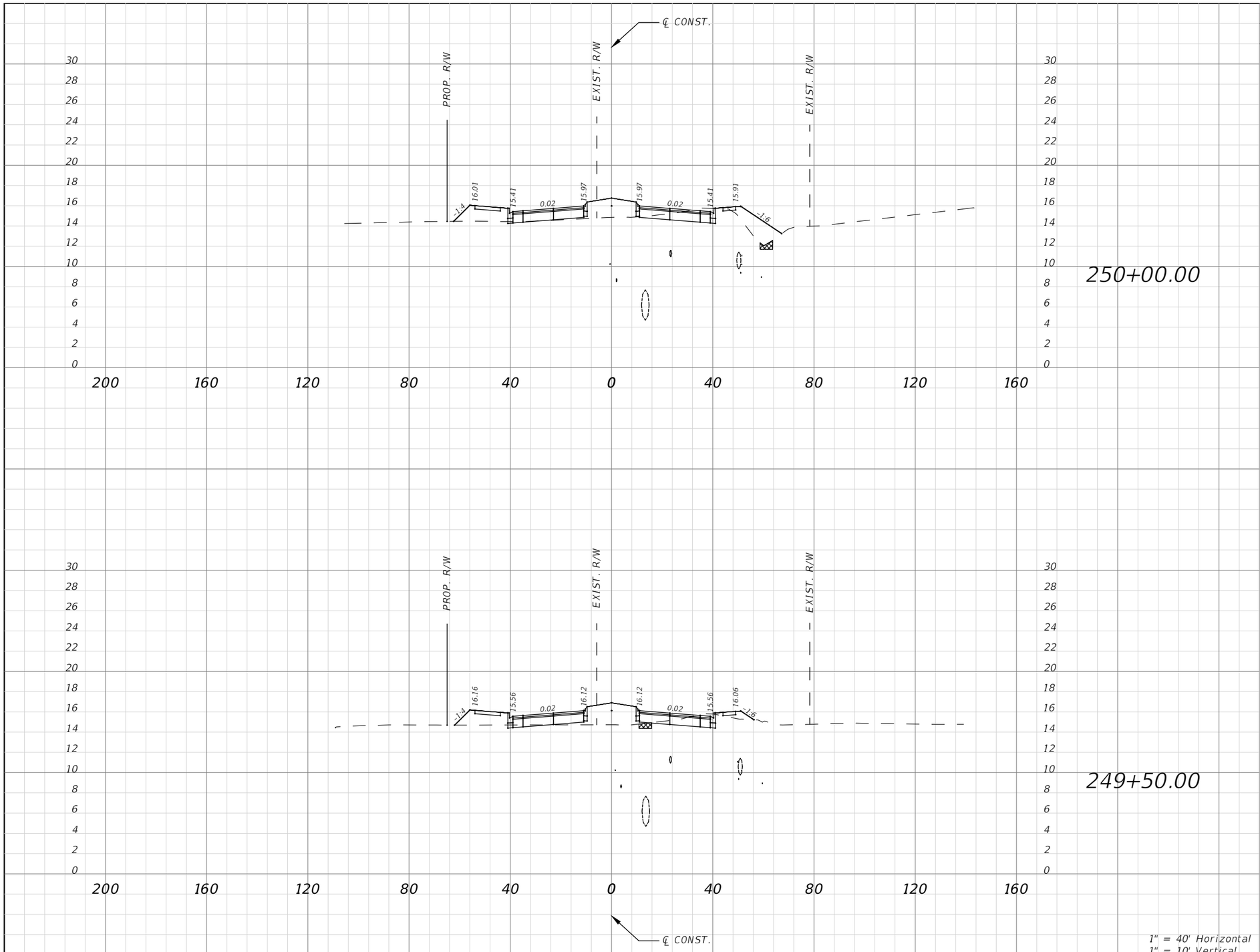
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (68)

SHEET NO.
211

Mitch Johnson 2/6/2019 10:52:30 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
2.49	4.99	25.40	13.67	87.61	48.04
2.90	8.59	21.13	12.30	68.47	37.90

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

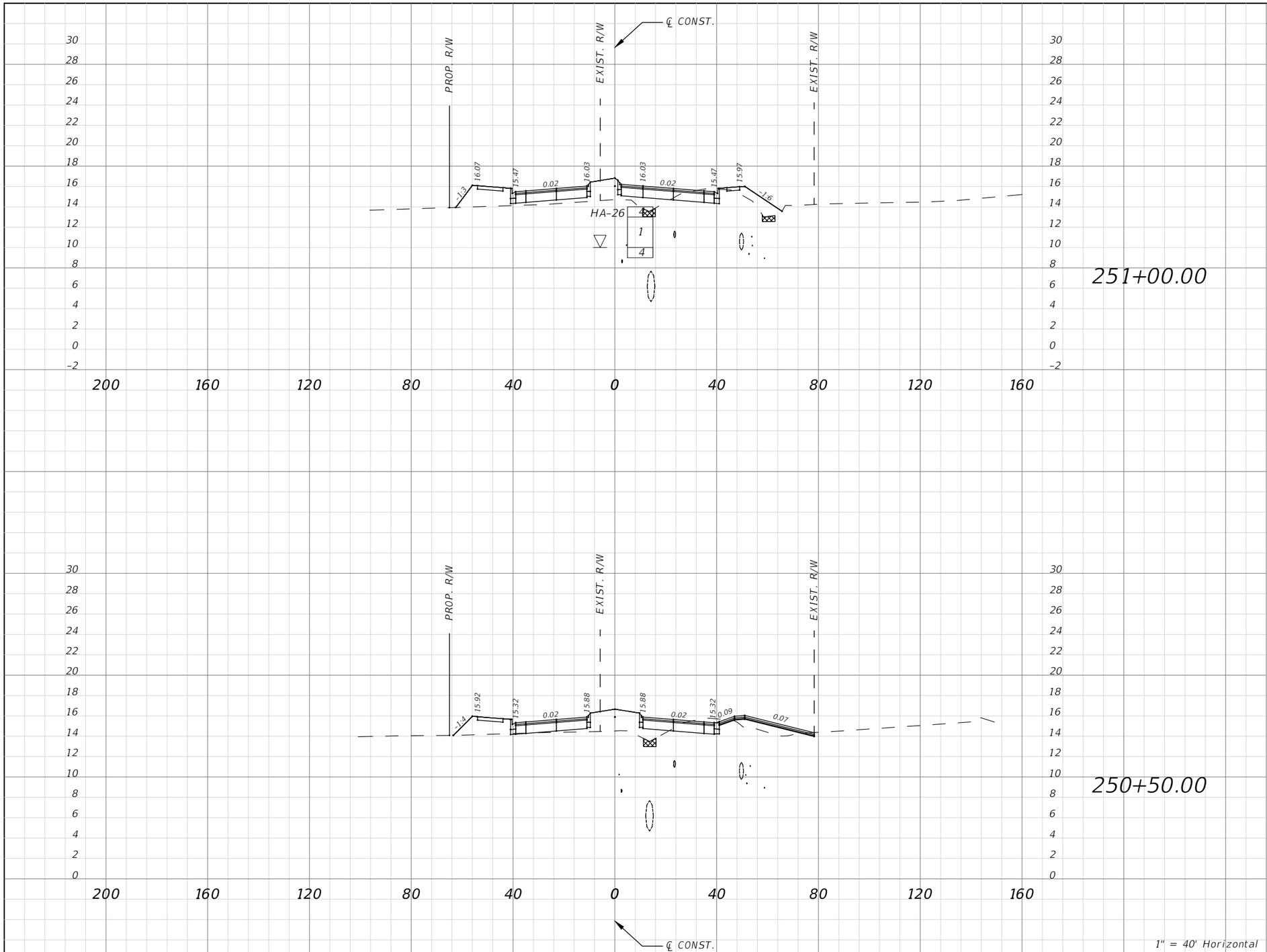
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (69)

SHEET NO.
212

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	19.10	33.38	96.93	151.27
3.76	5.79	24.50	46.20	94.35	168.49

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

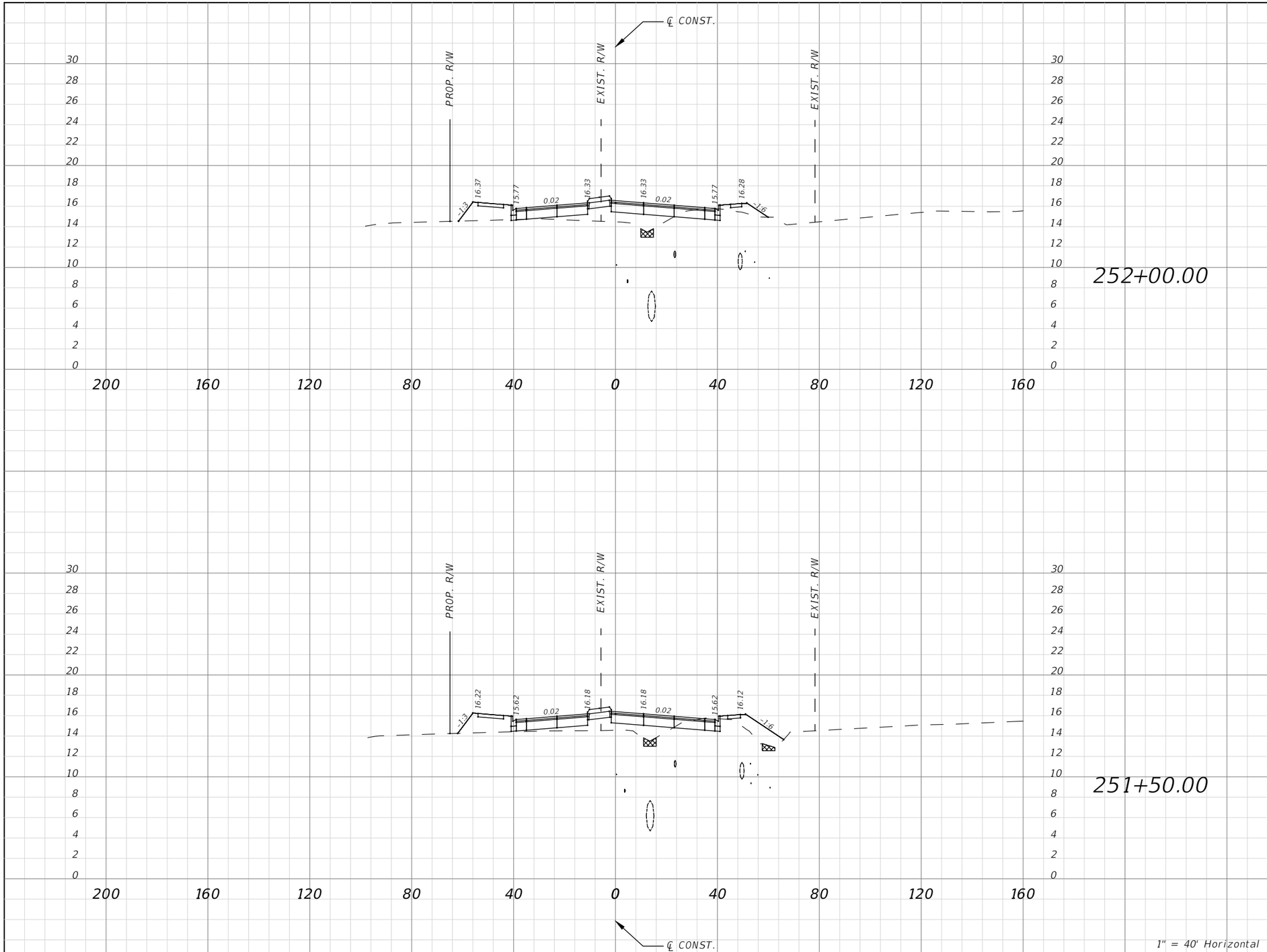
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (70)

SHEET NO.
213

Mitch Johnson 2/6/2019 10:54:10 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
3.36	8.53	14.90	5.75	80.61	30.36
0.00	0.00	16.31	32.78	93.26	176.10

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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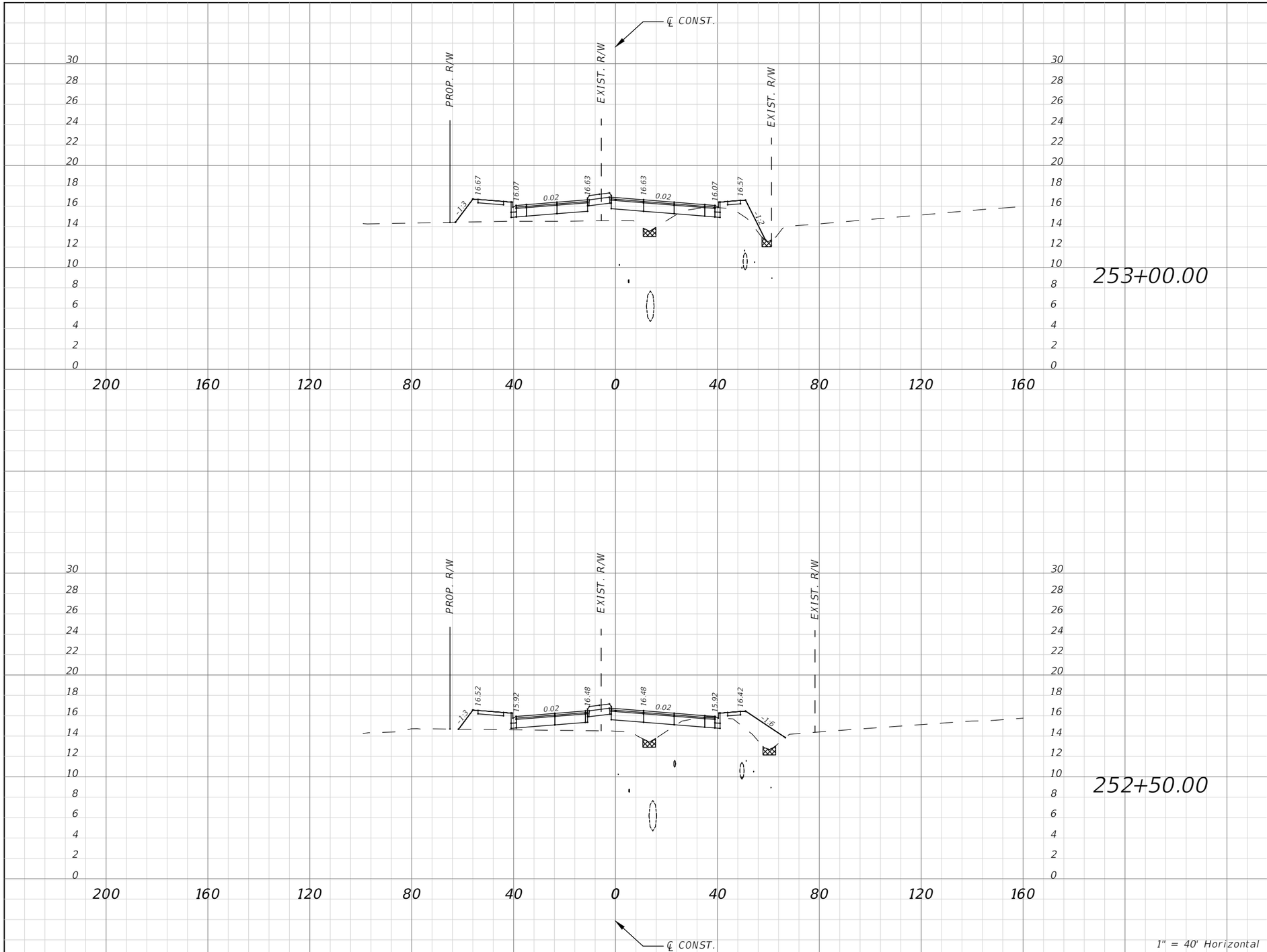
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (71)

SHEET NO.
214

Mitch Johnson 2/6/2019 10:55:00 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	11.21	22.55	115.05	217.69
0.00	0.00	13.14	25.97	120.06	185.80

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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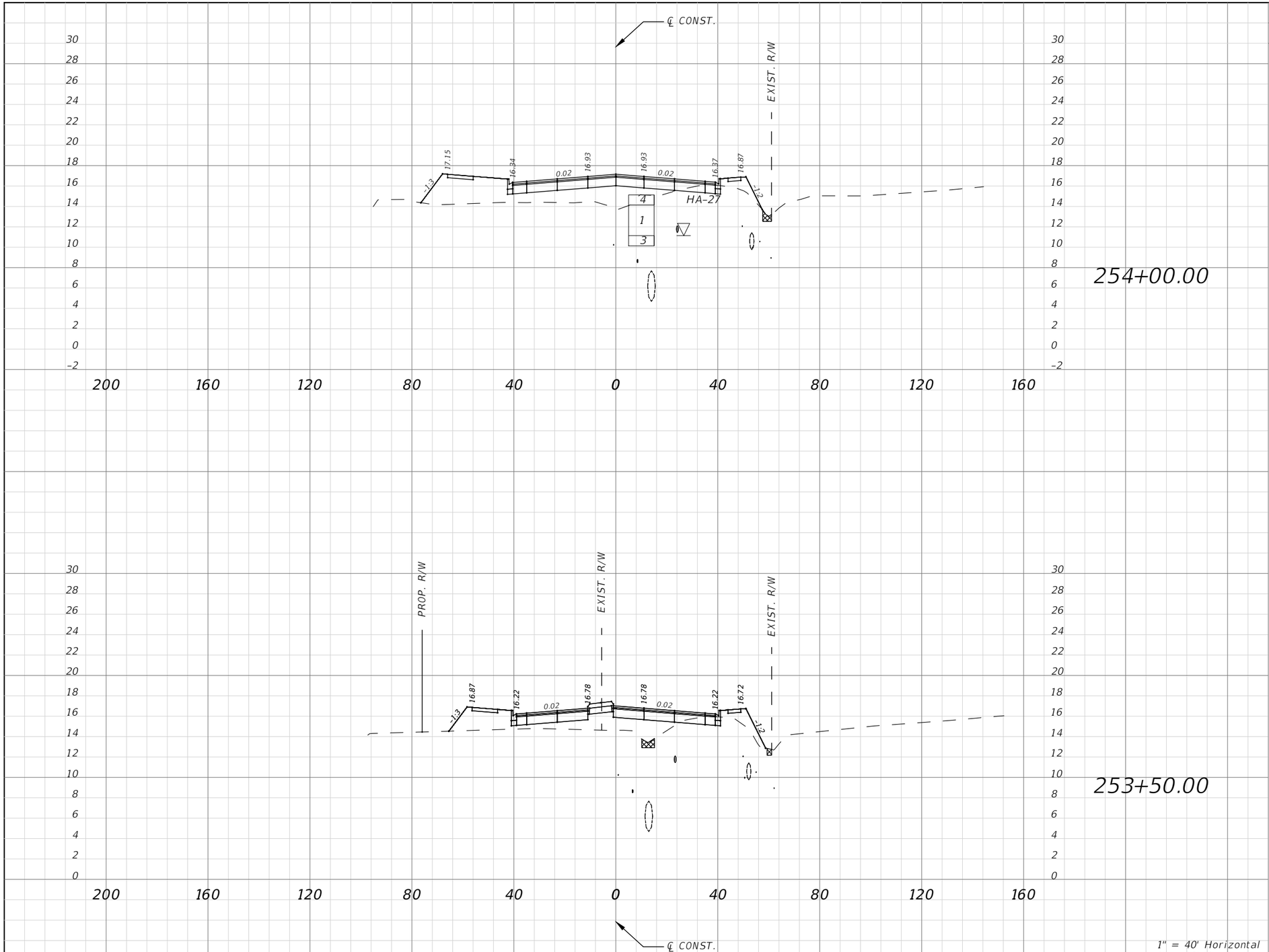
DESIGN ENGINEER
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CROSS SECTION (72)

SHEET NO.
215

Mitch Johnson 2/6/2019 10:55:51 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	9.75	6.46	167.18	104.40
0.00	0.00	9.79	19.44	121.92	219.42

1" = 40' Horizontal
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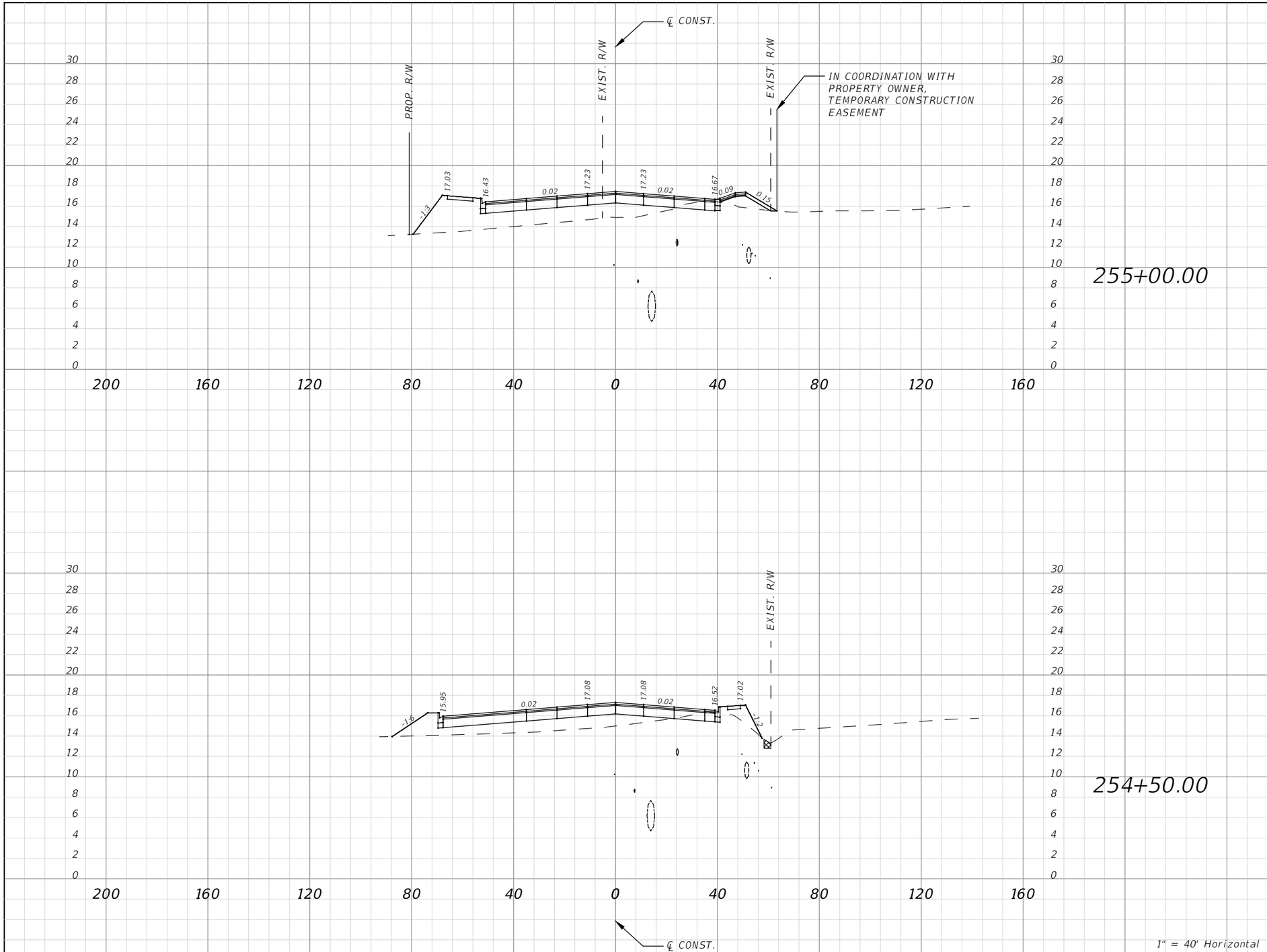
DESIGN ENGINEER
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CROSS SECTION (73)

SHEET NO.
216

Mitch Johnson 2/6/2019 10:56:41 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	3.42	11.24	20.18	184.27	287.26
0.00	0.00	10.56	8.85	125.97	54.93

No.	REVISIONS	DATE	BY

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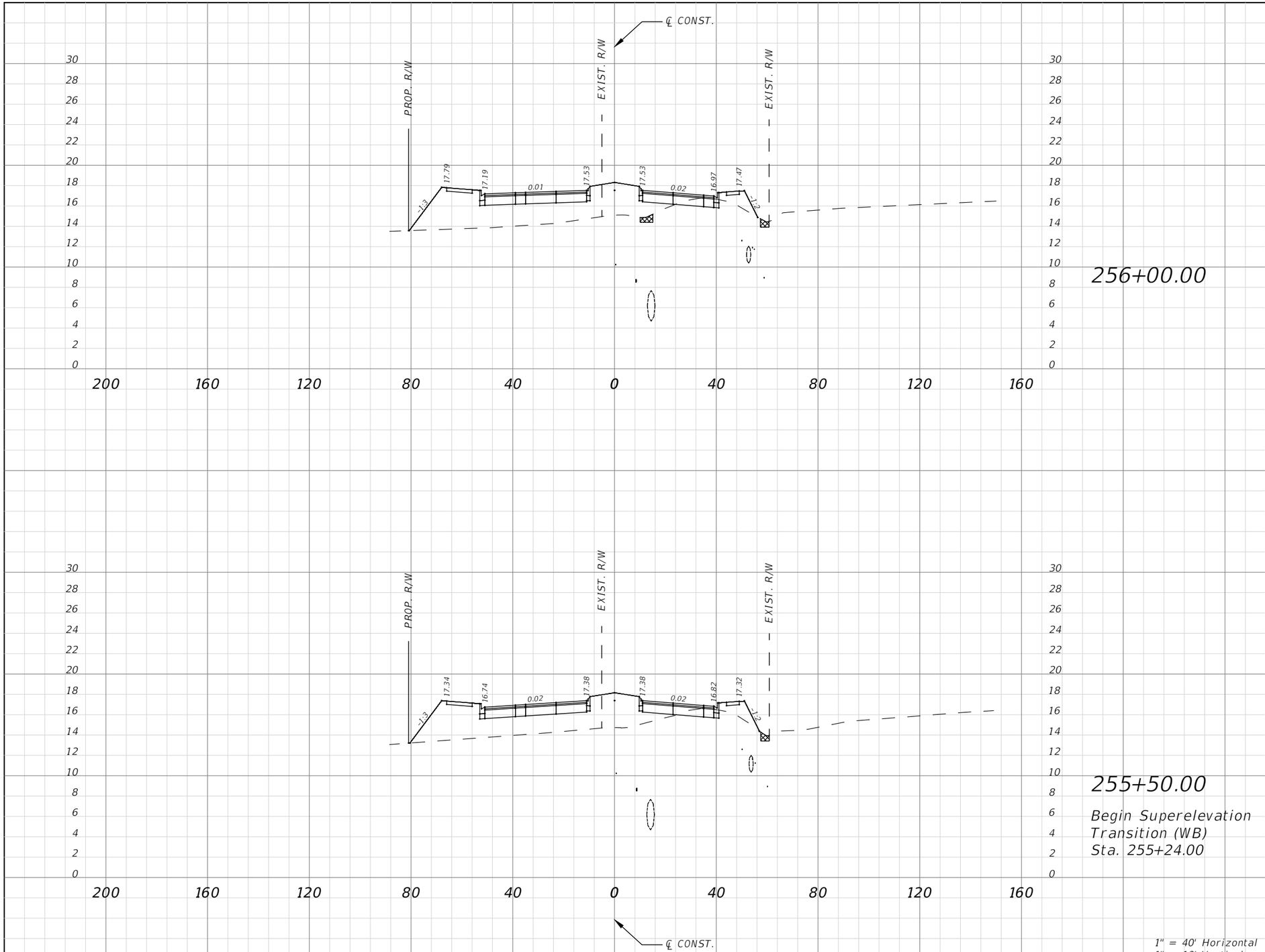
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (74)

SHEET NO.
217

Mitch Johnson 2/6/2019 10:57:31 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	11.18	20.36	257.79	461.73
0.00	0.00	10.81	20.42	240.87	393.65

No.	REVISIONS	DATE	BY

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1022 26th Avenue East, Bradenton, FL 34208

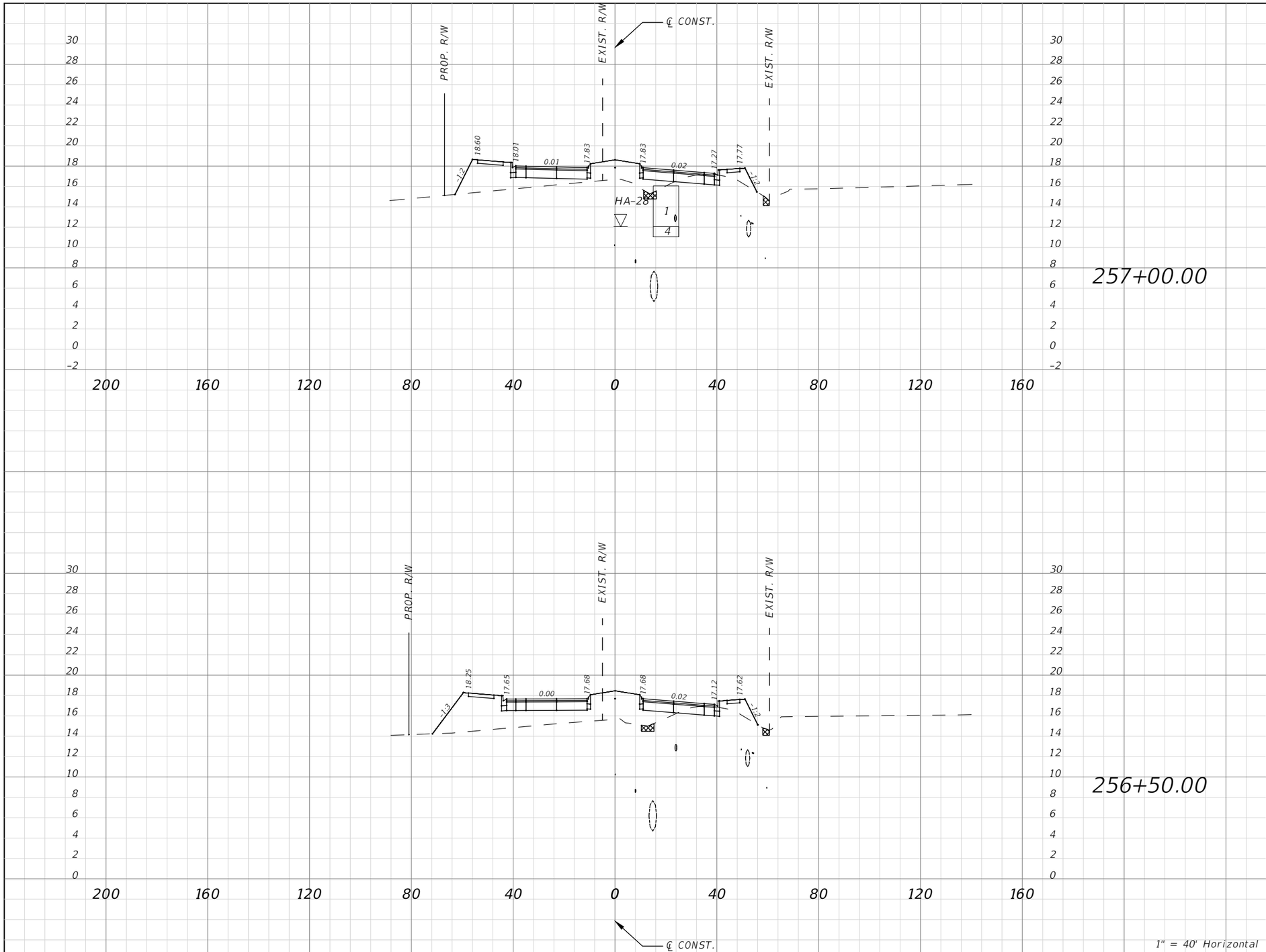
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (75)

SHEET NO.
218

Mitch Johnson 2/6/2019 10:58:21 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	13.24	23.06	134.53	313.97
0.00	0.00	11.67	21.16	204.55	428.10

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

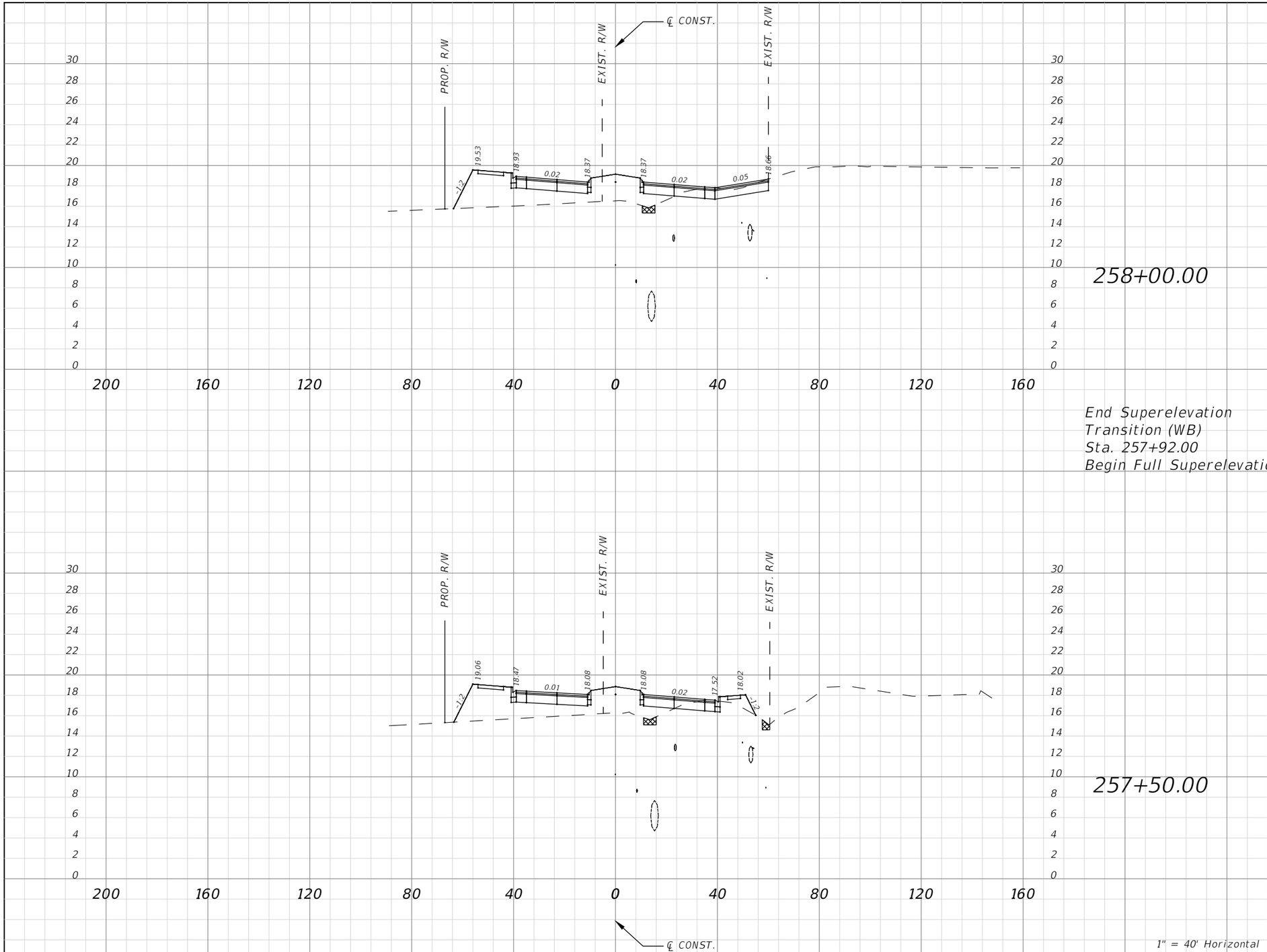
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (76)

SHEET NO.
219

Mitch Johnson 2/6/2019 10:59:11 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
3.18	9.24	29.90	39.60	164.85	310.94
0.00	0.00	13.68	24.92	167.38	279.55

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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5110 EISENHOWER BOULEVARD, SUITE 310
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DATE

PROJECT NO.
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

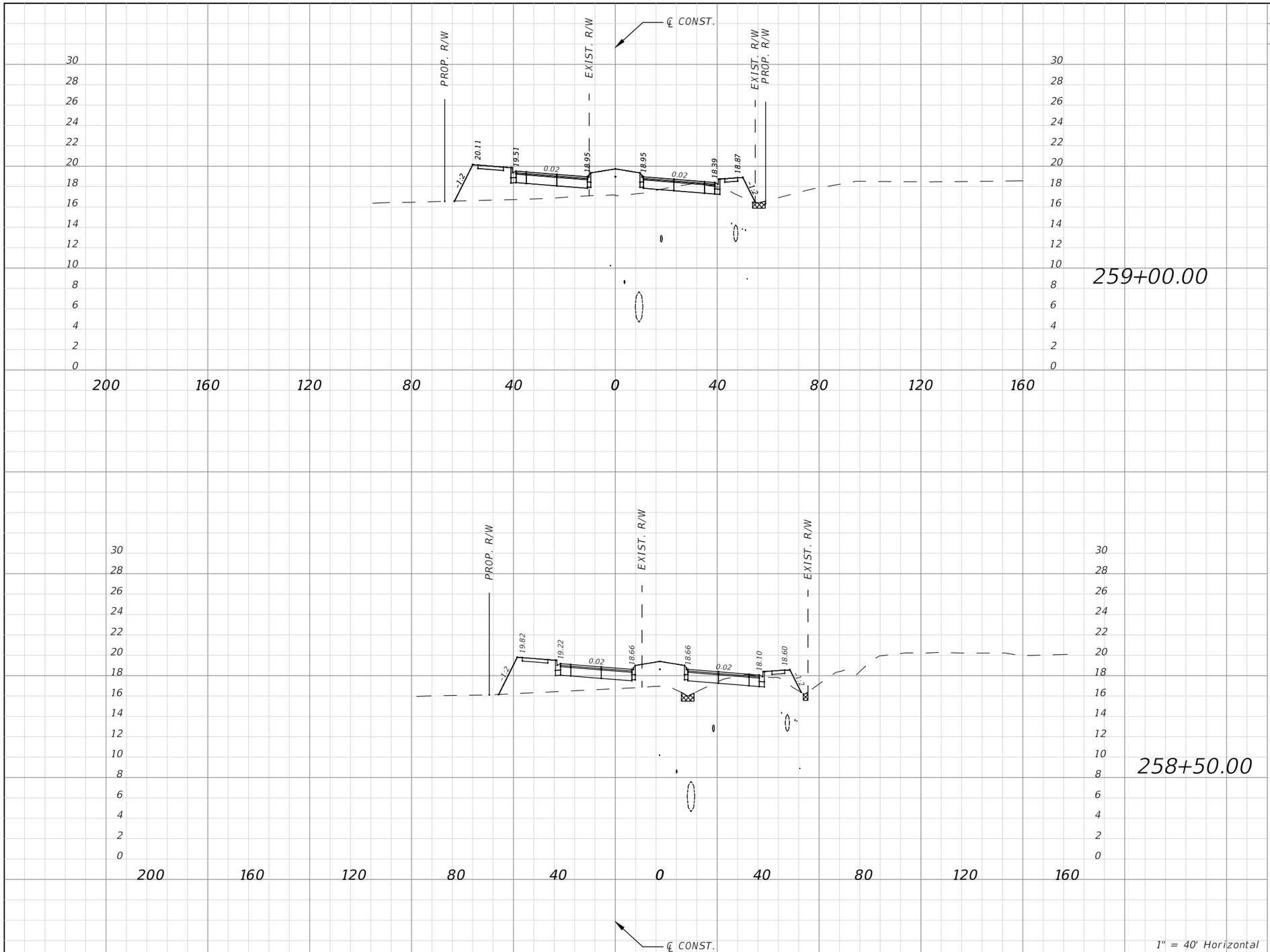
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
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CROSS SECTION (77)

SHEET NO.
220

Mitch Johnson 2/6/2019 11:00:02 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
3.16	8.35	14.04	5.29	161.54	61.22
0.00	0.00	14.91	40.57	161.91	

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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PROJECT NO.
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Manatee County FLORIDA
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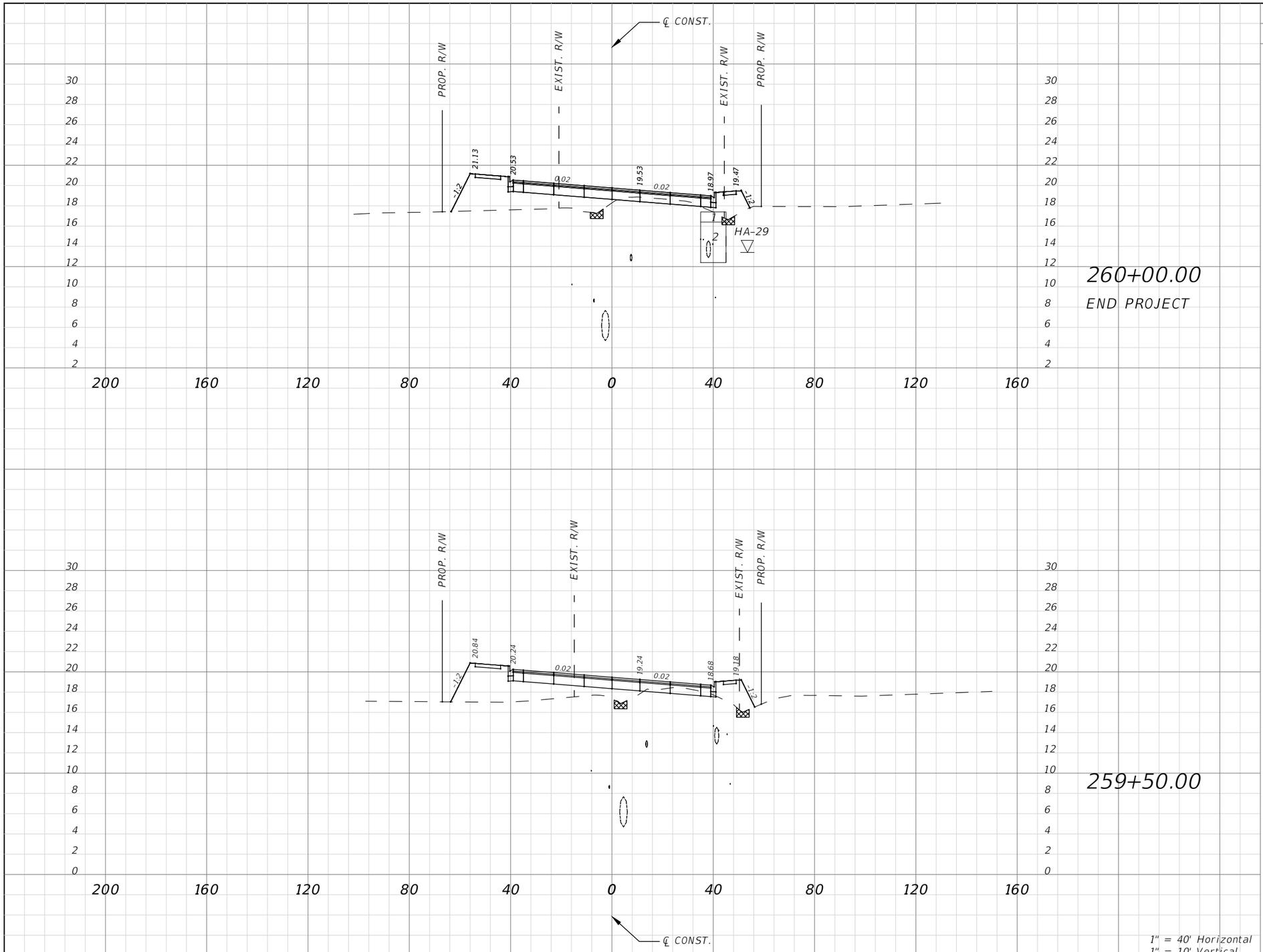
DESIGN ENGINEER
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FL. LICENSE NO.
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CROSS SECTION (78)

SHEET NO.
221

Mitch Johnson 2/6/2019 11:00:52 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	12.27	22.11	143.02	286.15
0.00	0.00	11.91	23.63	162.64	303.58

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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CHECKED BY

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P.E. NO. 67495
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1022 26th Avenue East, Bradenton, FL 34208

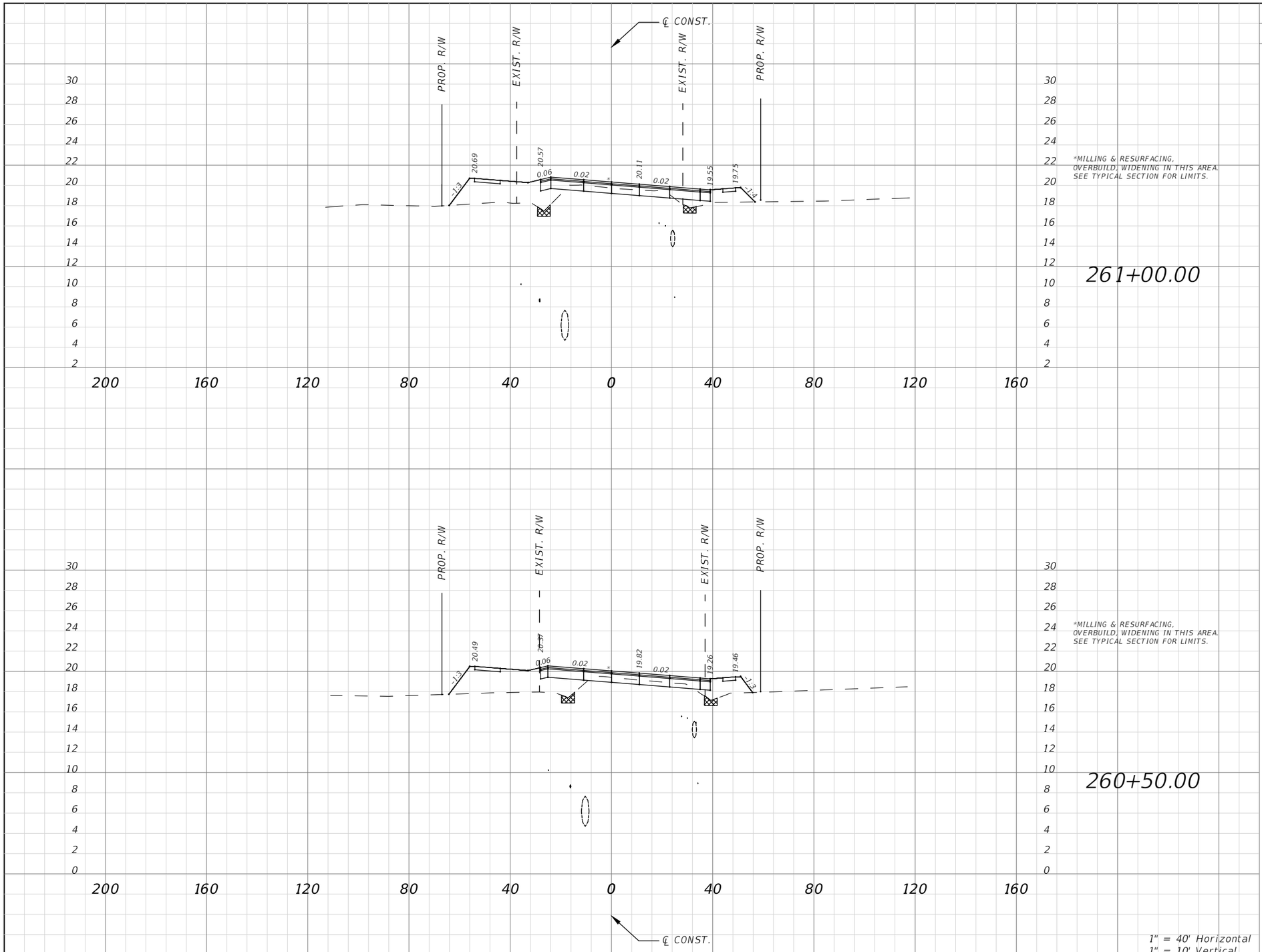
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (79)

SHEET NO.
222

Mitch Johnson 2/6/2019 11:01:42 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	22.64	32.88	107.73	96.76
0.00	0.00	17.75	27.58	125.52	251.42

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
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HARDESTY & HANOVER, LLC
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TAMPA, FL 33634
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PROJECT NO.
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Manatee County FLORIDA
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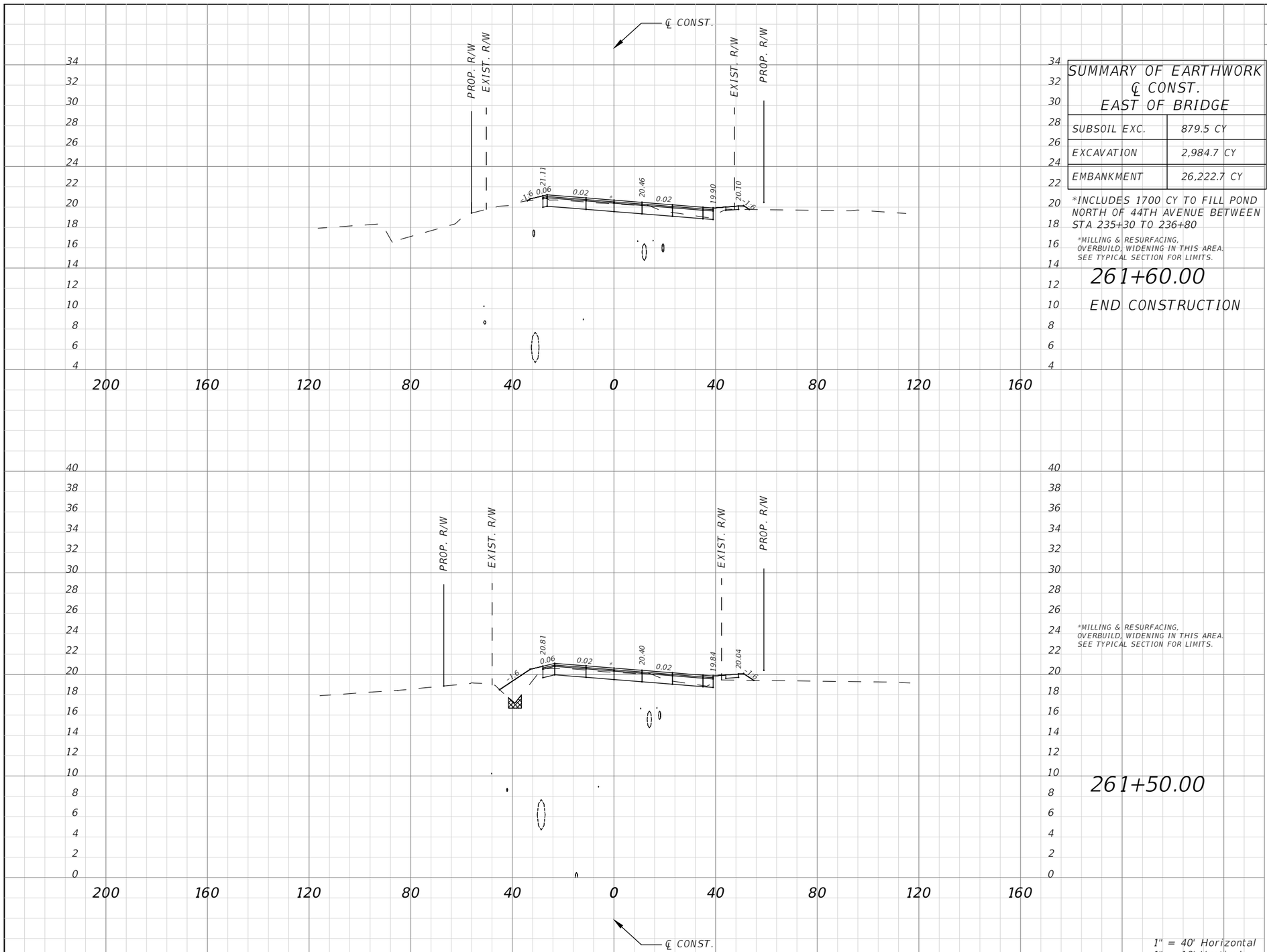
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (80)

SHEET NO.
223

Mitch Johnson 2/6/2019 11:02:32 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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SUMMARY OF EARTHWORK
℄ CONST.
EAST OF BRIDGE

SUBSOIL EXC.	879.5 CY
EXCAVATION	2,984.7 CY
EMBANKMENT	26,222.7 CY

*INCLUDES 1700 CY TO FILL POND NORTH OF 44TH AVENUE BETWEEN STA 235+30 TO 236+80

*MILLING & RESURFACING, OVERBUILD, WIDENING IN THIS AREA. SEE TYPICAL SECTION FOR LIMITS.

261+60.00

END CONSTRUCTION

*MILLING & RESURFACING, OVERBUILD, WIDENING IN THIS AREA. SEE TYPICAL SECTION FOR LIMITS.

261+50.00

1" = 40' Horizontal
1" = 10' Vertical

Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0.00	0.00	40.79	14.70	4.75	6.18
0.00	0.00	38.62	56.70	28.61	127.71

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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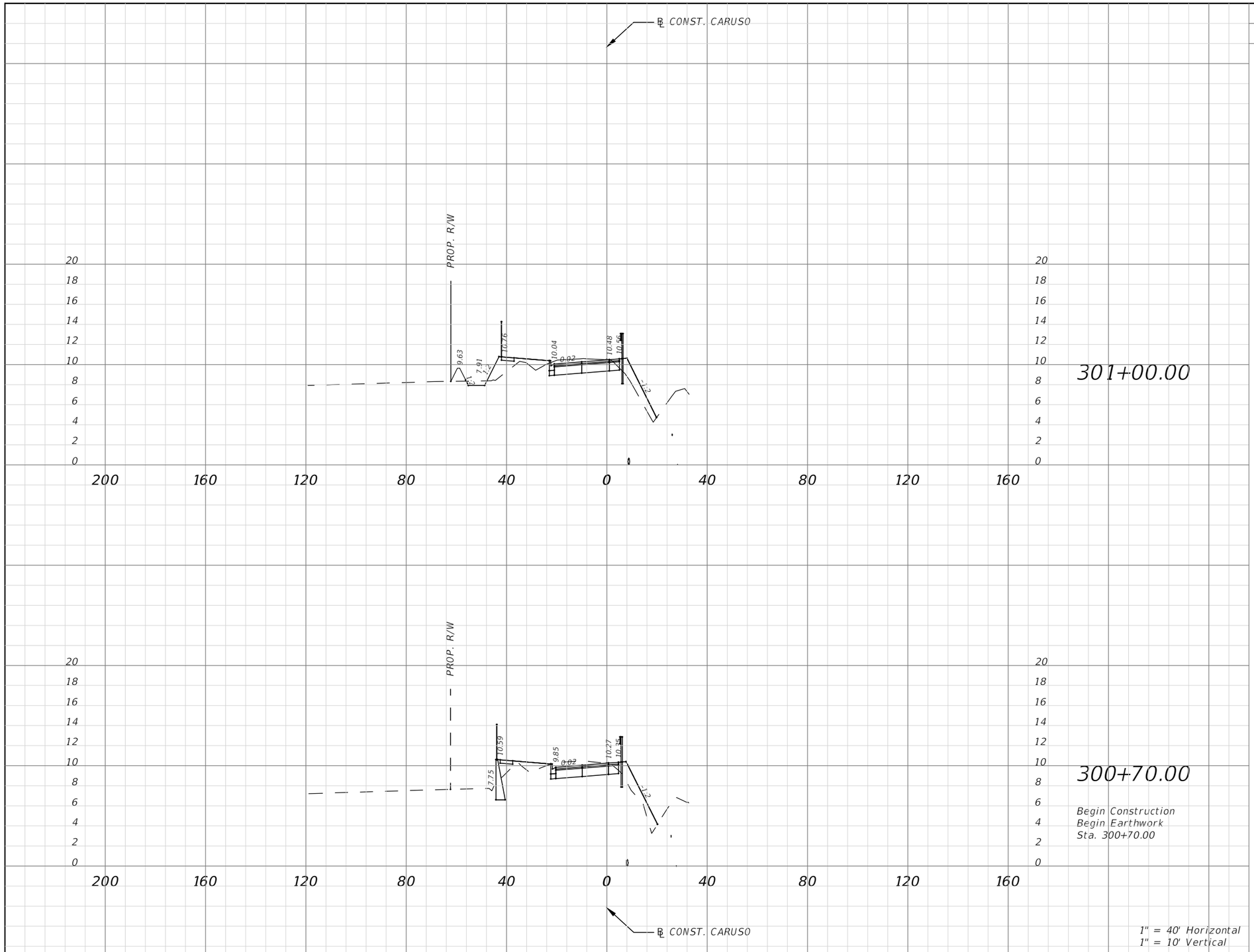
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (81)

SHEET NO.
224

Mitch Johnson 6/25/2019 6:48:30 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD03.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		38.98	47.38	40.36	39.67
		46.30	0.00	31.05	0.00

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

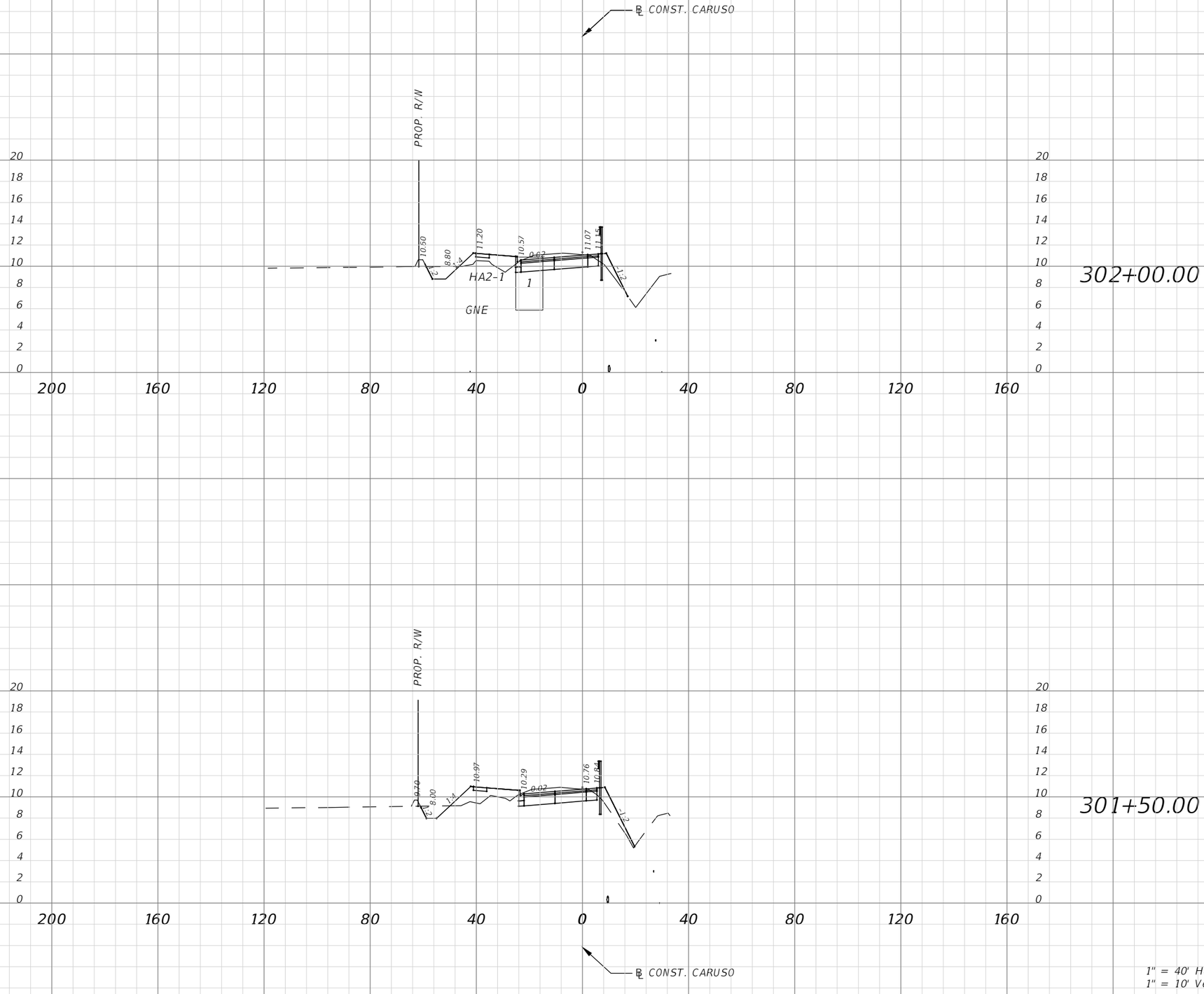
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION (82)

SHEET NO.: 225

Berbakov, Jillian 3/20/2019 6:49:55 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		51.49	89.46	23.04	50.46
		45.13	77.87	31.47	66.51

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

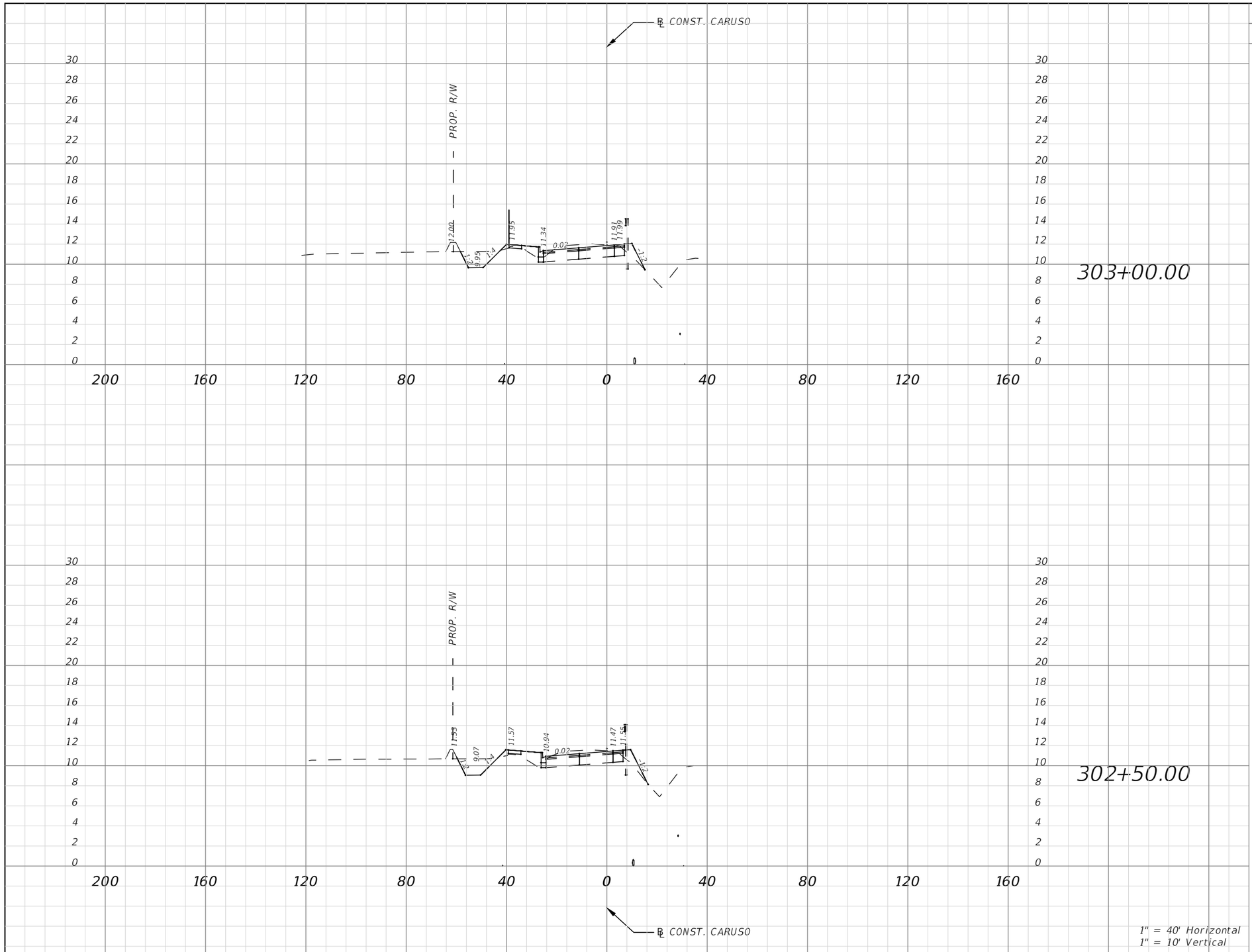
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION (83)

SHEET NO.: 226

Berbakov, Jillian 3/20/2019 6:43:04 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		45.60	84.42	11.51	26.88
		45.57	81.49	17.52	39.70

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

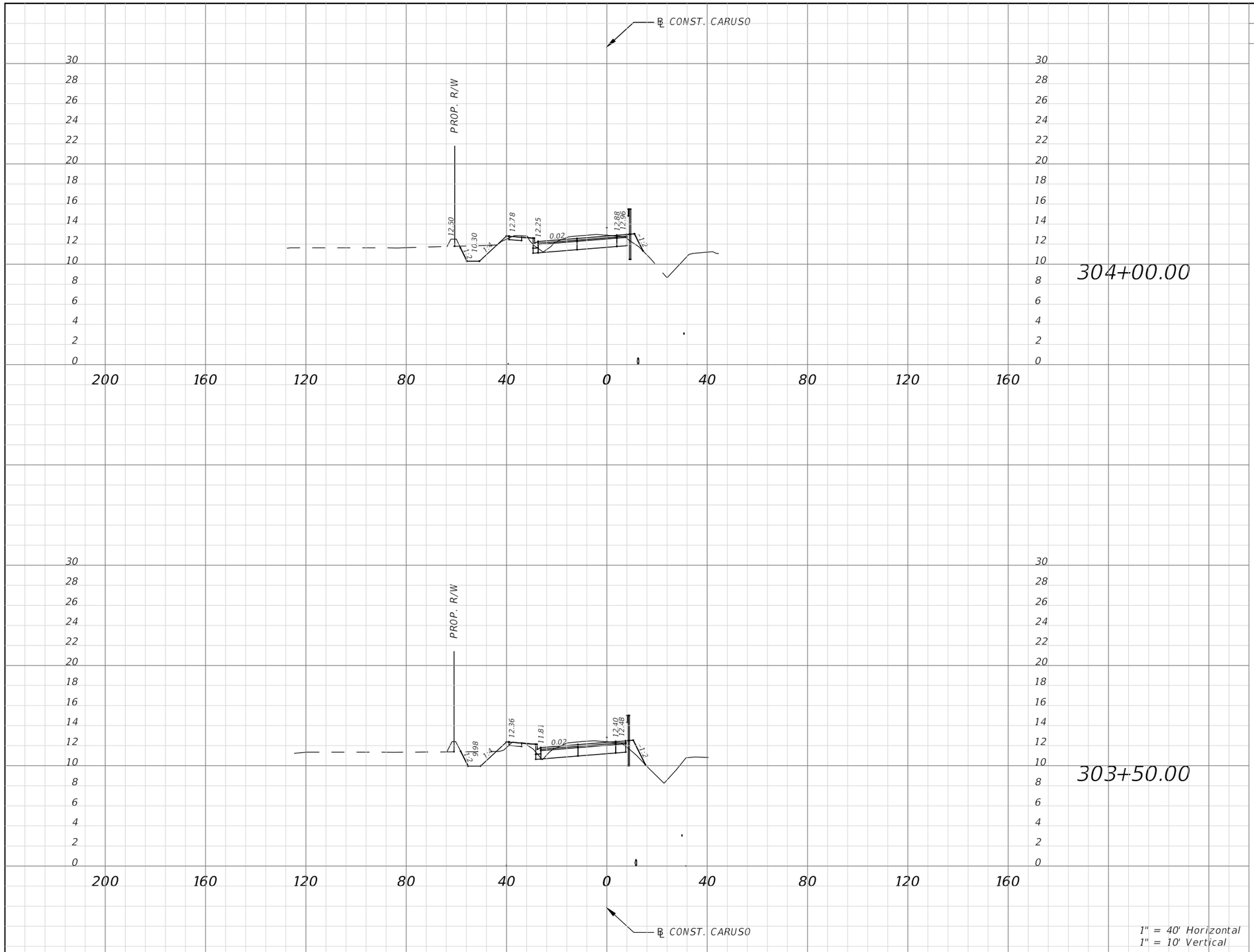
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (84)

SHEET NO.
227

Floyd, Cindy 5/20/2019 9:48:35 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		55.72	51.59	4.80	4.44
		53.15	102.67	7.95	17.42

No.	REVISIONS	DATE	BY

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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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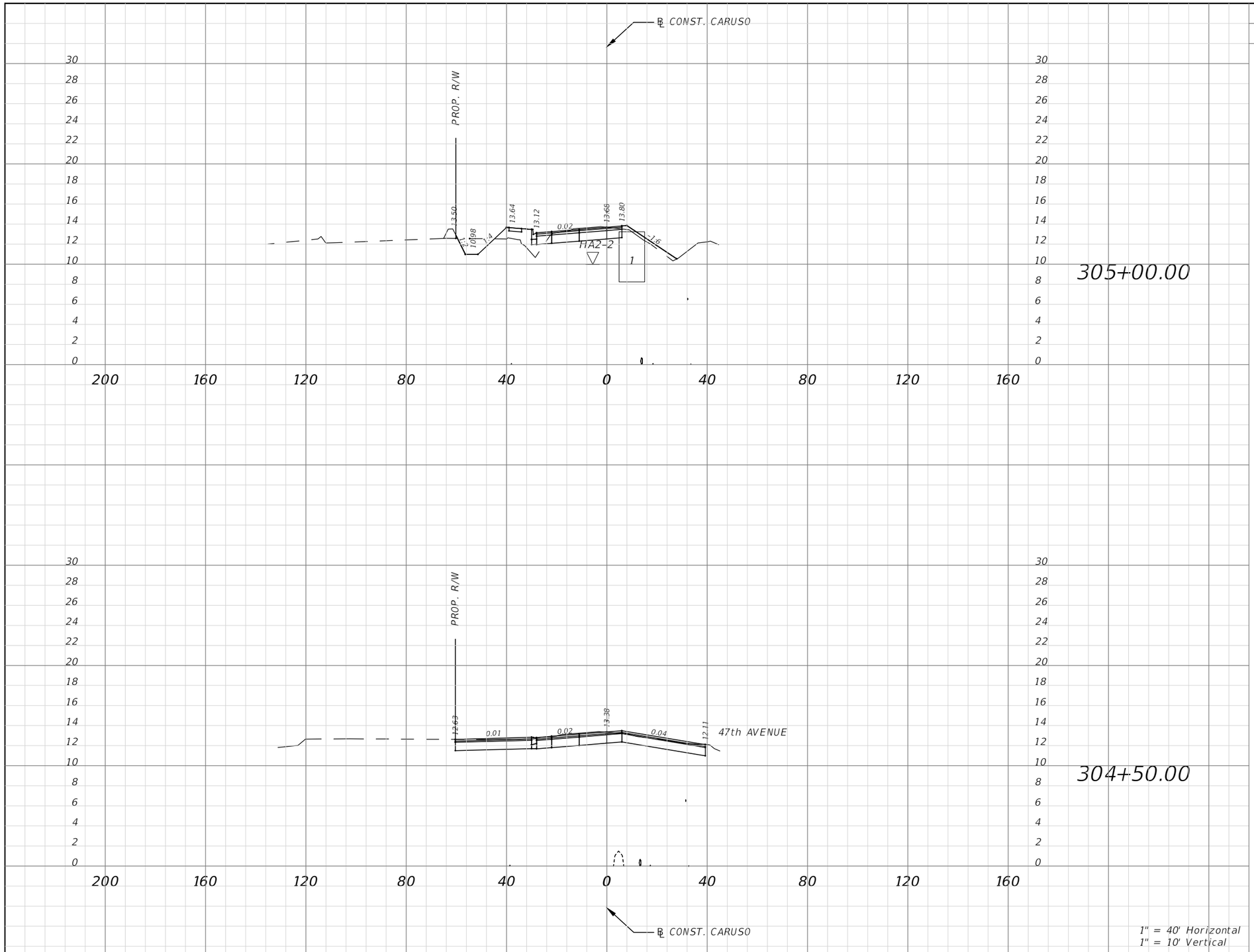
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION (85)

SHEET NO.: 228

Berbakov, Jillian 3/20/2019 7:06:12 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		49.43	140.19	24.95	23.10
		101.98	146.01	0.00	4.44

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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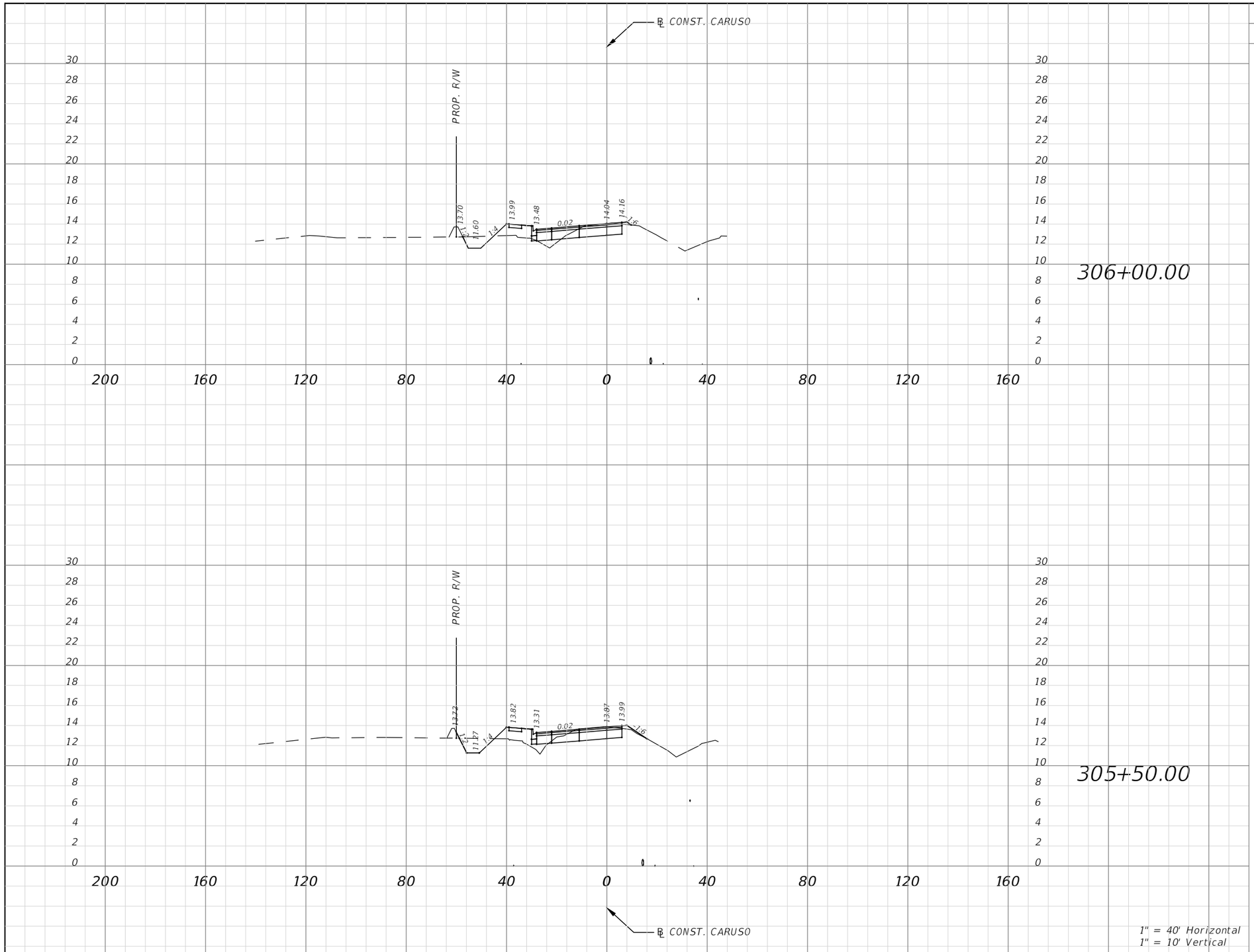
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION (86)

SHEET NO.: 229

Berbakov, Jillian 3/20/2019 7:19:01 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		35.59	71.21	16.02	30.71
		42.98	84.69	18.20	39.51

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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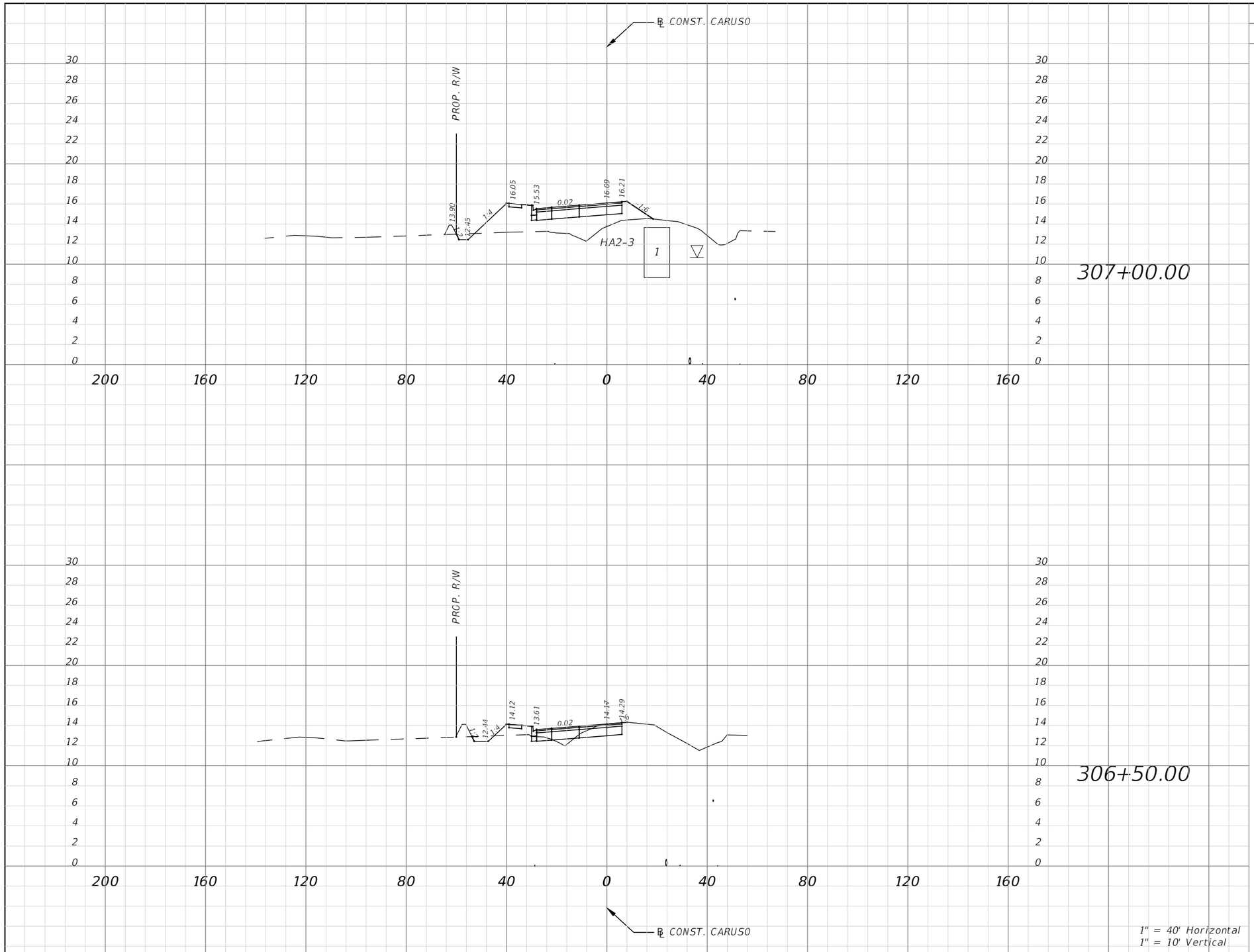
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

CROSS SECTION (87)

SHEET NO.: 230

Berbakov, Jillian 3/20/2019 7:21:32 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		15.05	13.20	100.82	91.69
		33.99	62.99	12.31	25.40

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY
CHECKED BY

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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

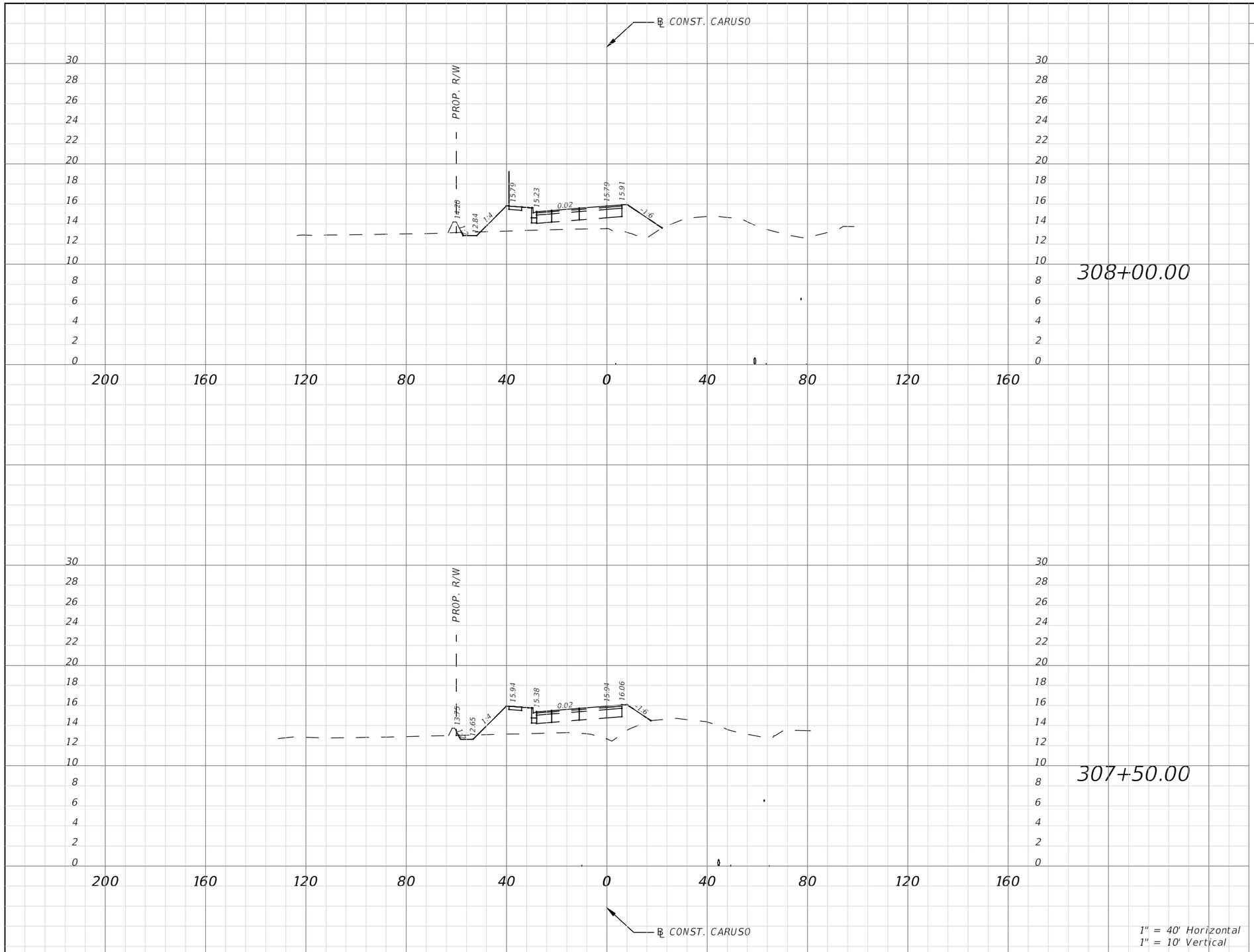
CROSS SECTION (88)

SHEET NO.: 231

Berbakov, Jillian 3/20/2019 7:26:31 AM

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.26	0.54	99.66	191.42
		0.36	0.51	110.32	162.71

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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CHECKED BY

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6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

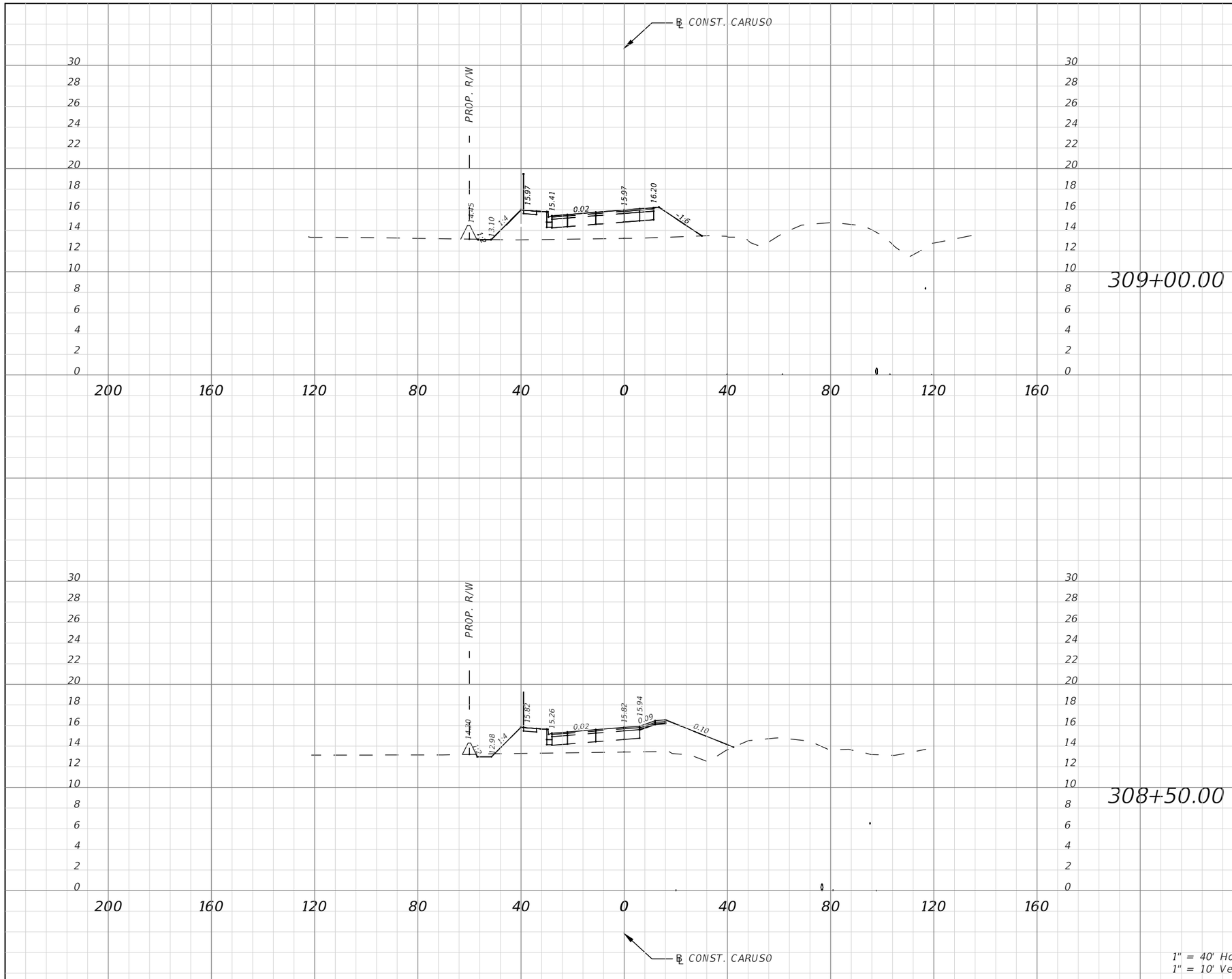
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (89)

SHEET NO.
232

Floyd, Cindy 5/20/2019 9:50:14 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.12	0.25	131.83	261.47
		0.16	0.37	152.10	231.89

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

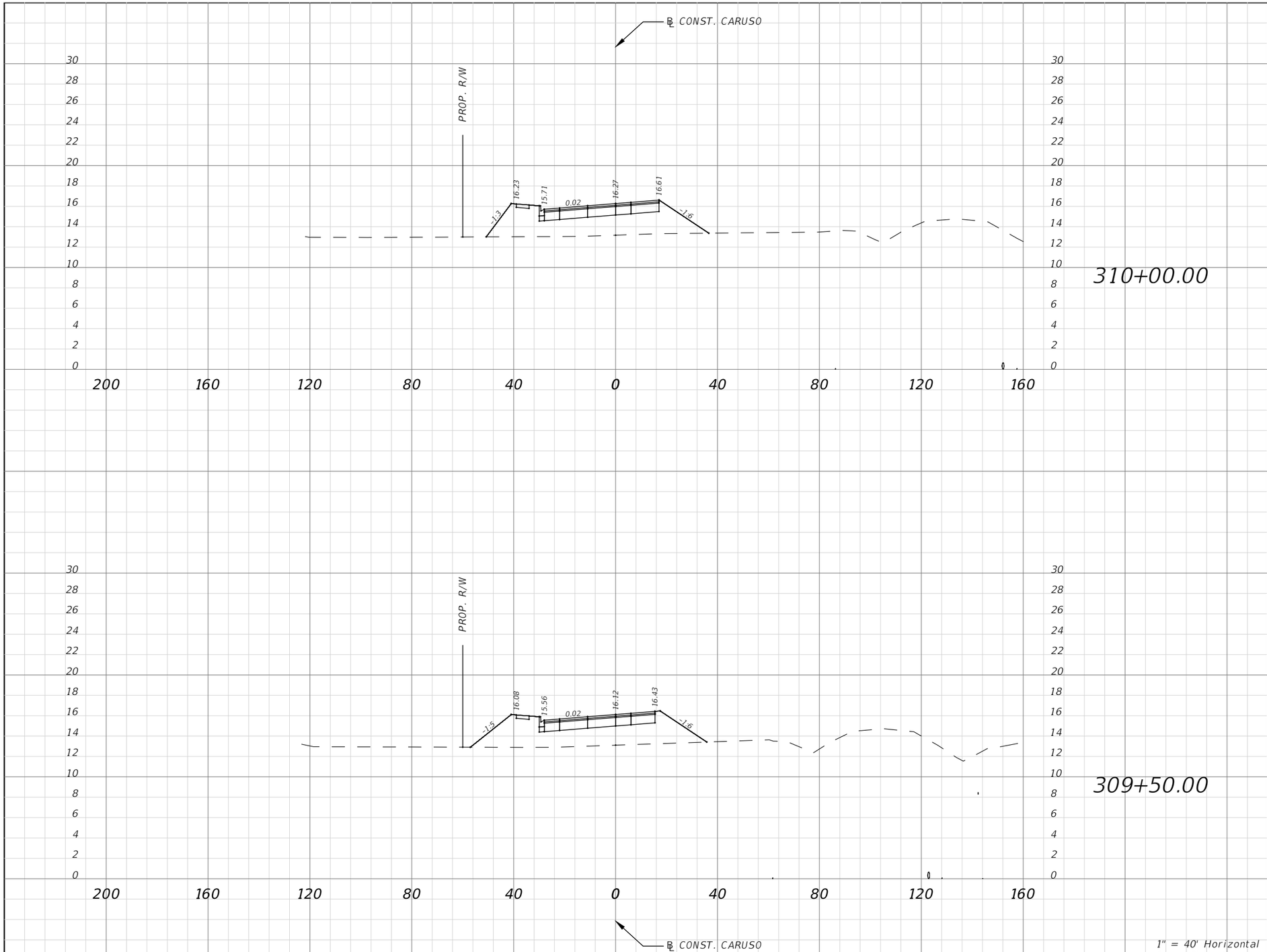
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (90)

SHEET NO.
233

Floyd, Cindy 5/20/2019 9:51:58 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	169.74	316.53
		0.00	7.85	175.79	276.27

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
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DATE

PROJECT NO.
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

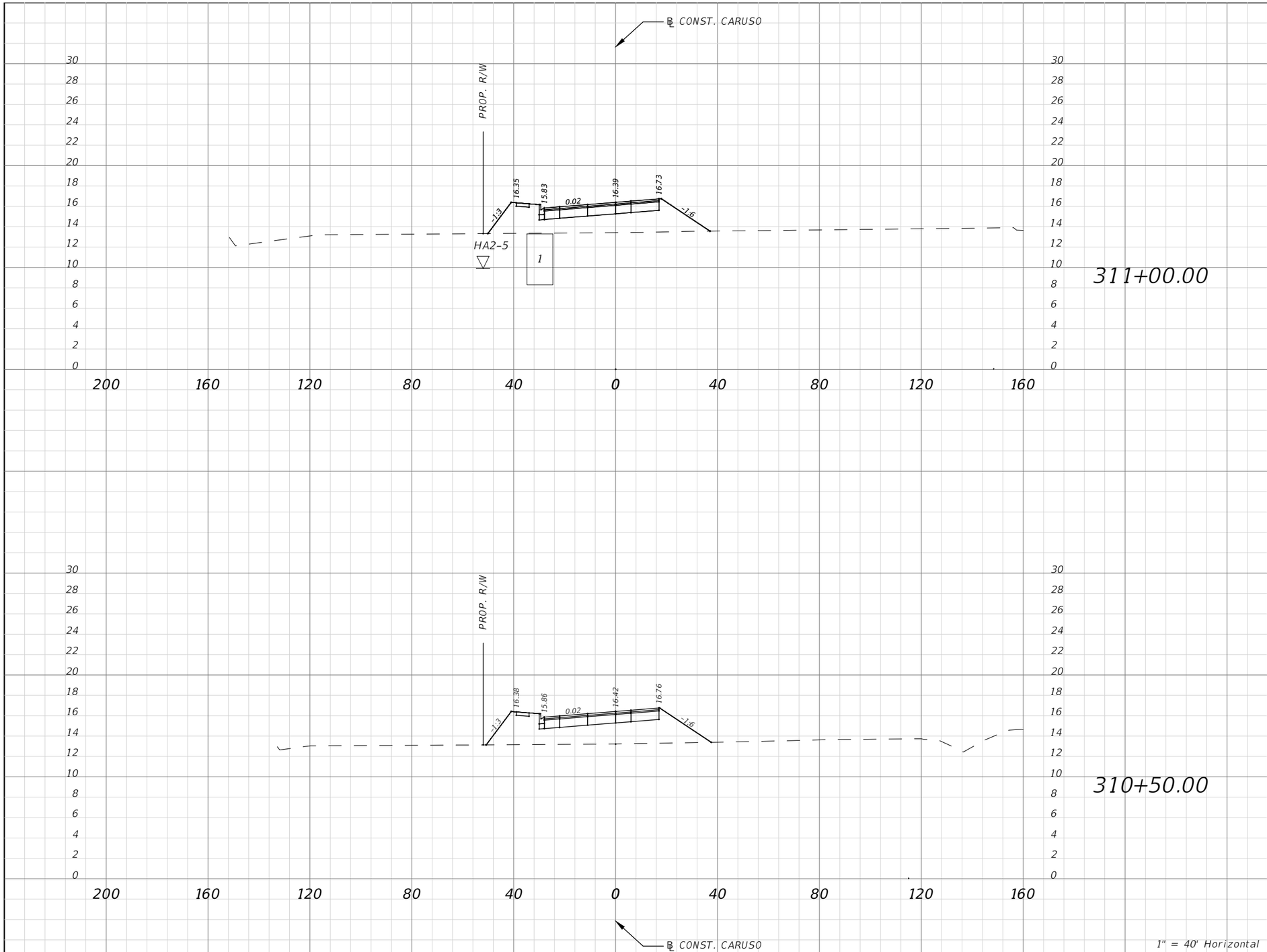
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (91)

SHEET NO.
234

Mitch Johnson 2/6/2019 11:36:03 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	157.50	306.22
		0.00	0.00	176.03	317.30

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
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1022 26th Avenue East, Bradenton, FL 34208

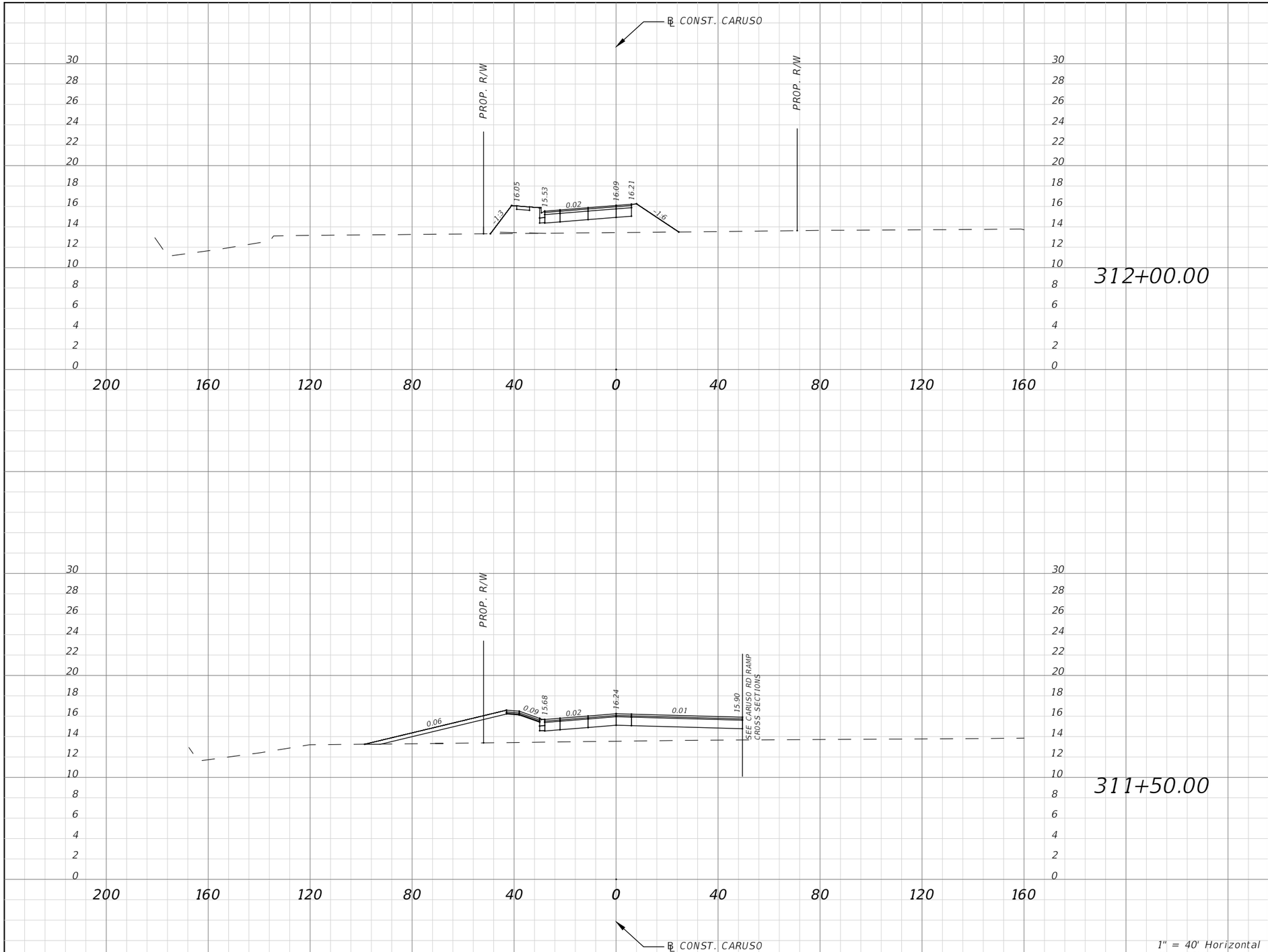
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (92)

SHEET NO.
235

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	126.30	279.26
		0.00	0.00	226.46	348.94

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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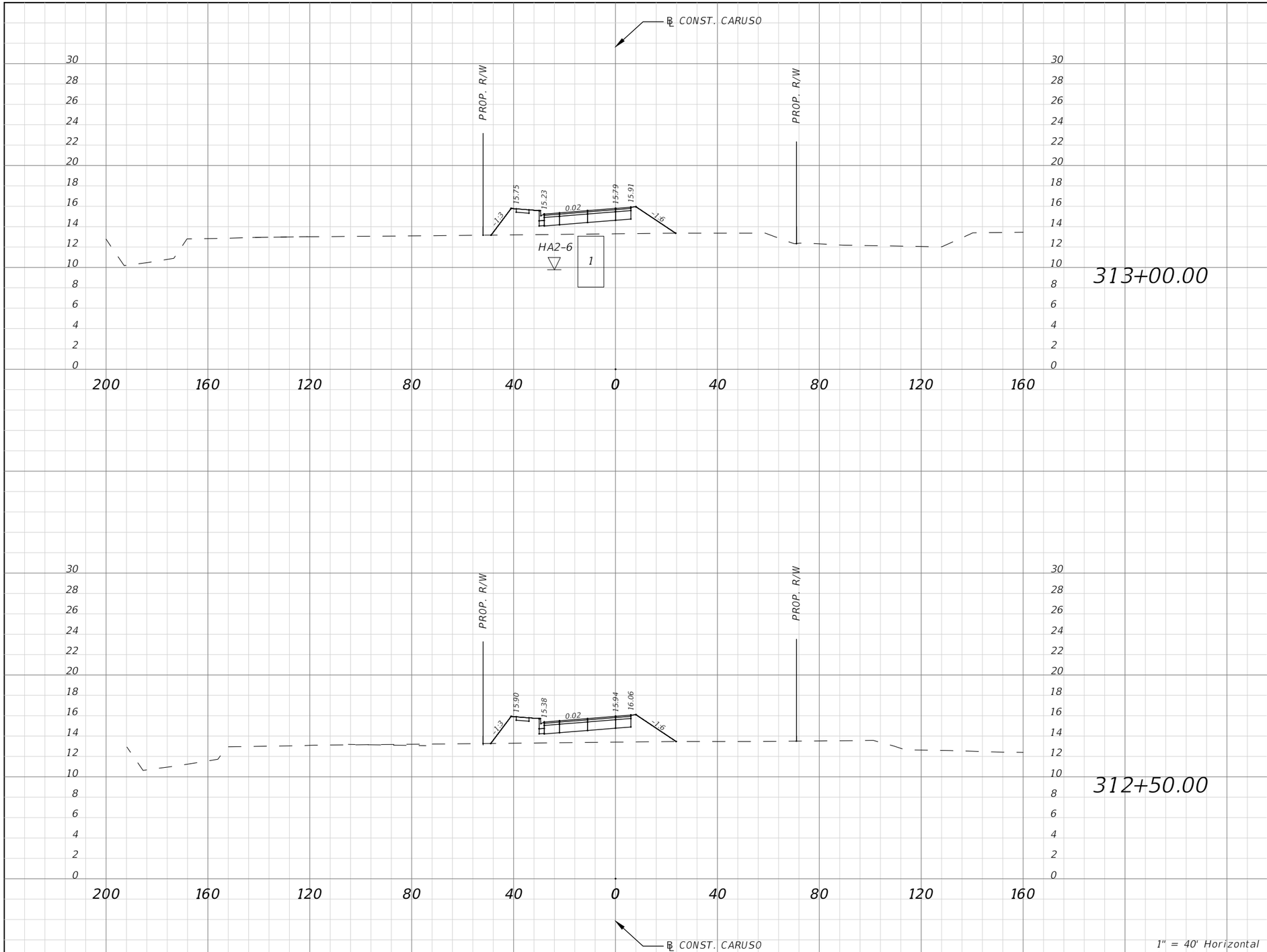
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (93)

SHEET NO.
236

Mitch Johnson 2/26/2019 8:50:31 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	101.84	188.44
		0.00	0.00	104.68	199.23

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

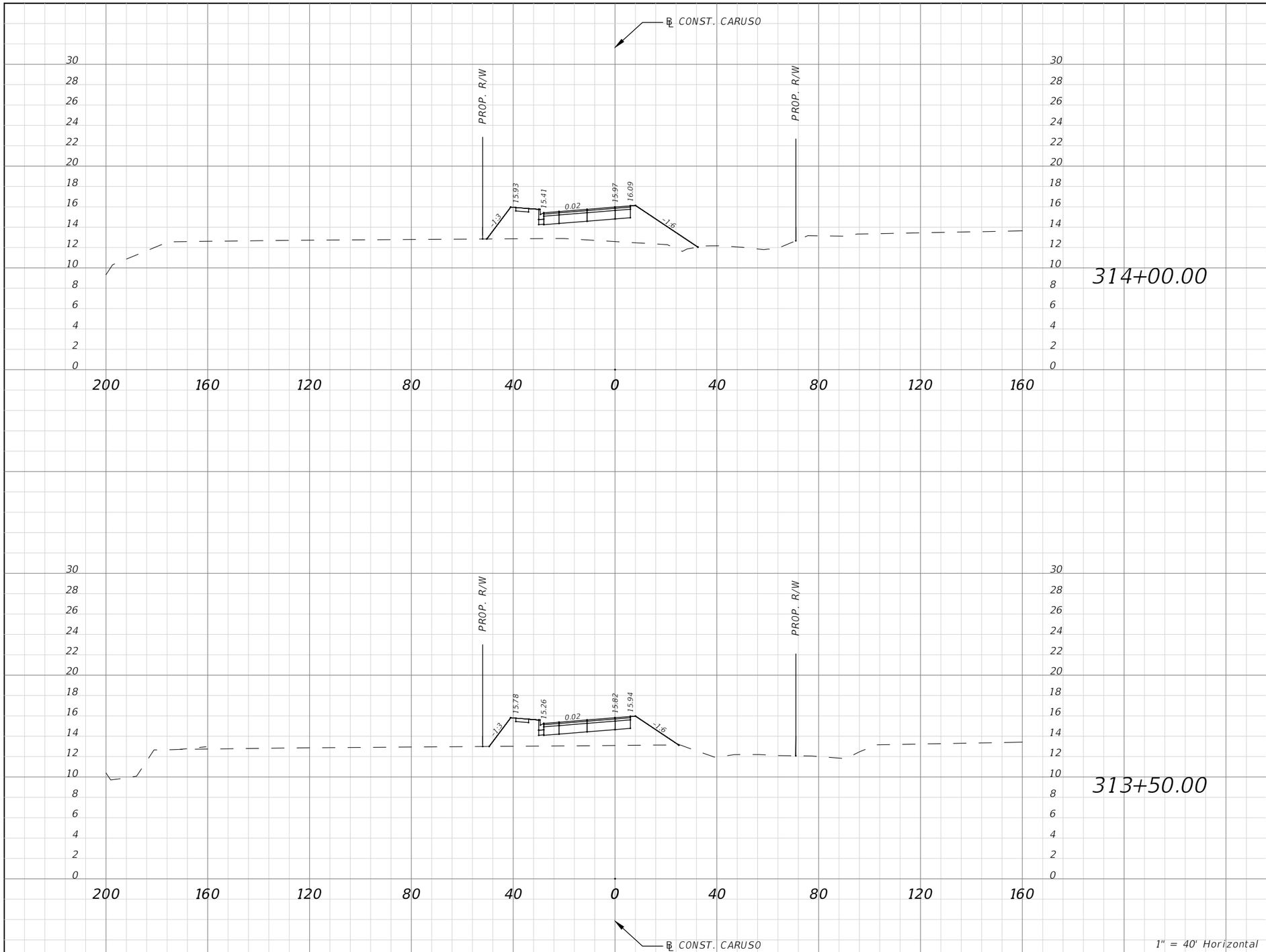
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (94)

SHEET NO.
237

Mitch Johnson 2/6/2019 11:38:35 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	166.35	260.38
		0.00	0.00	118.14	200.76

No.	REVISIONS	DATE	BY

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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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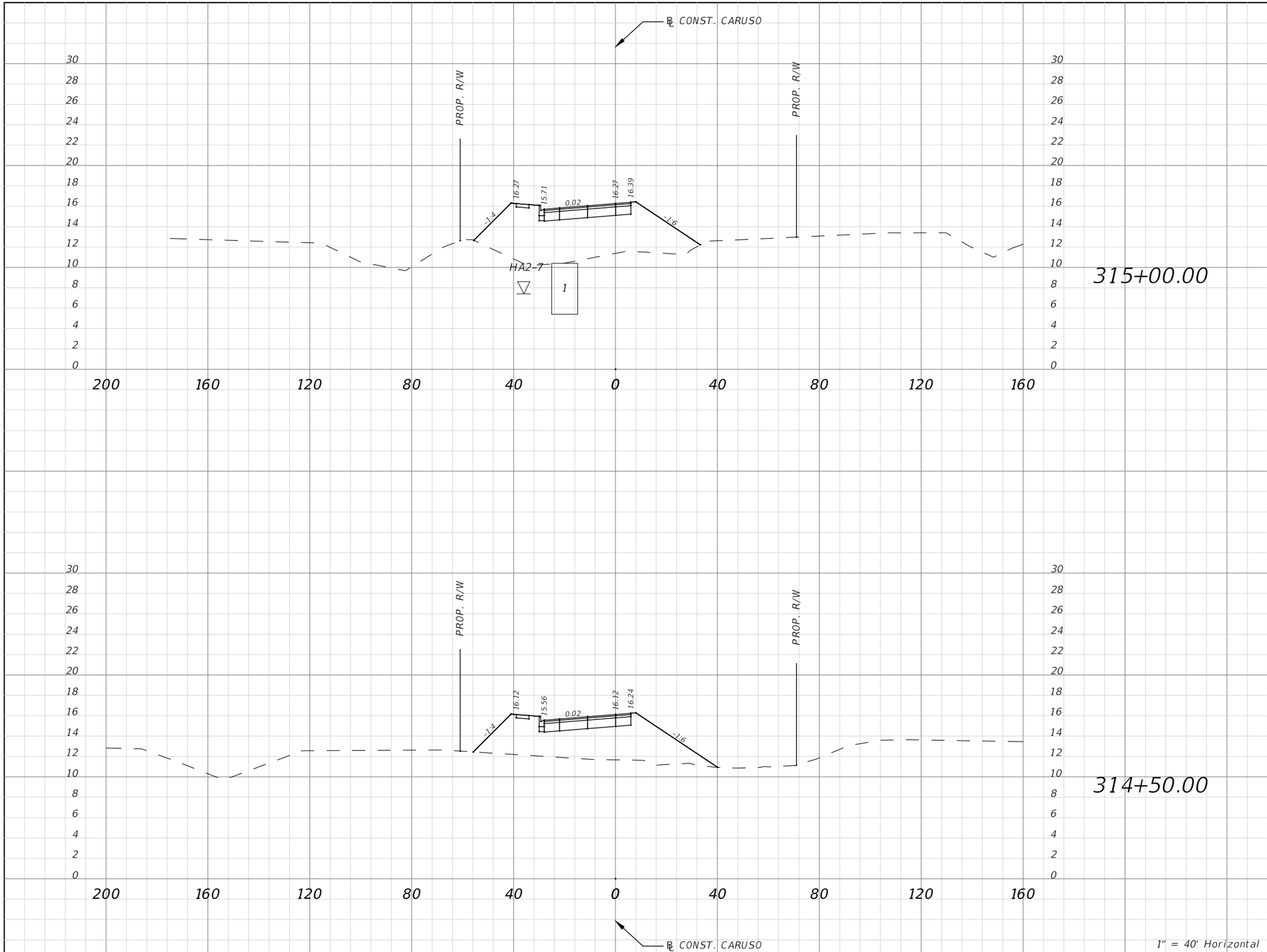
DESIGN ENGINEER
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CROSS SECTION (95)

SHEET NO.
238

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	327.41	538.17
		0.00	0.00	260.93	392.57

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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P.E. NO. 67495
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TAMPA, FL 33634
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

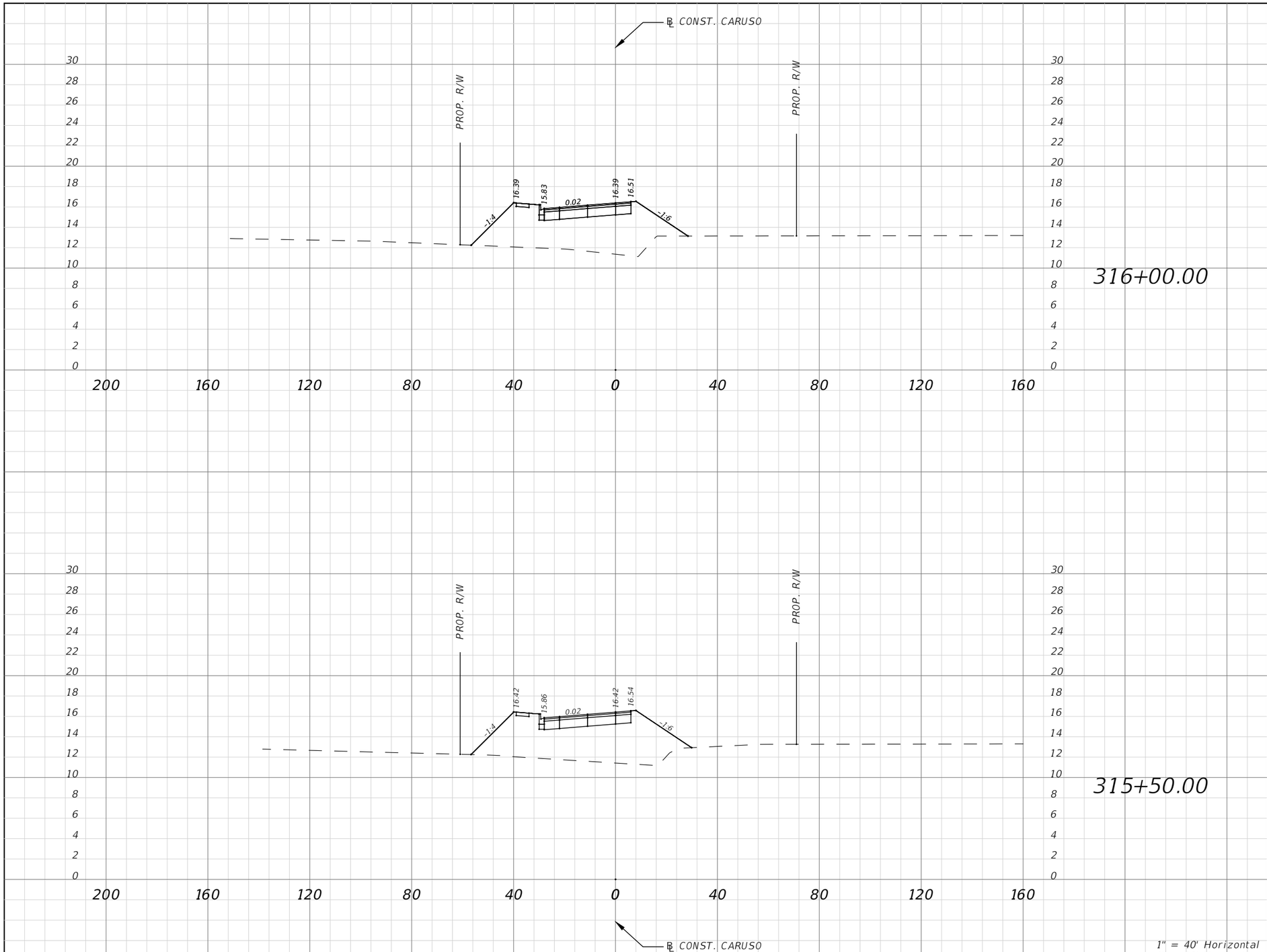
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
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CROSS SECTION (96)

SHEET NO.
239

Mitch Johnson 6/20/2019 8:14:19 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	252.17	478.99
		0.00	0.00	272.40	547.87

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
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DATE

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

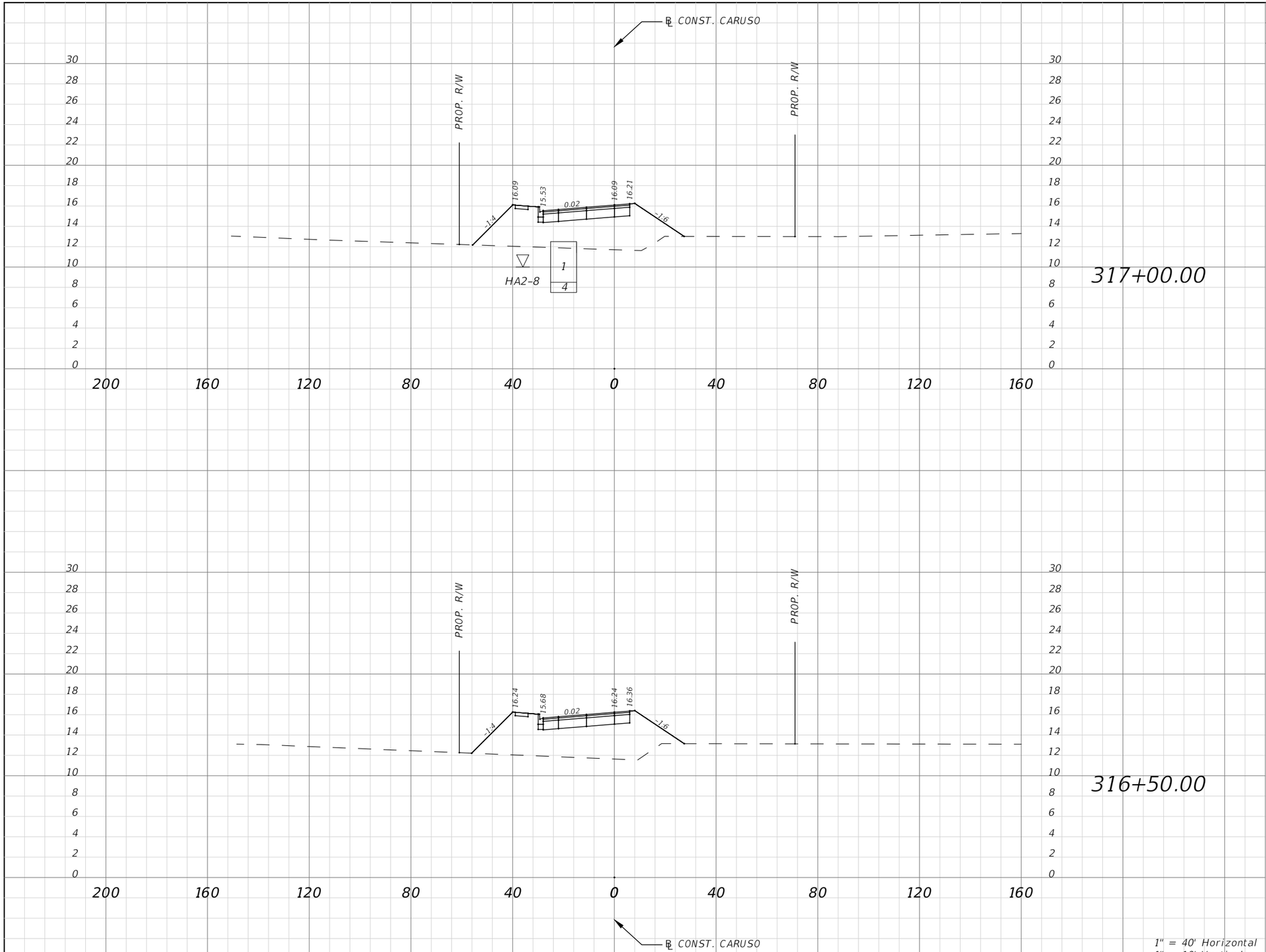
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (97)

SHEET NO.
240

Mitch Johnson 6/20/2019 8:14:47 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	225.37	426.20
		0.00	0.00	234.93	451.02

No.	REVISIONS	DATE	BY

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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

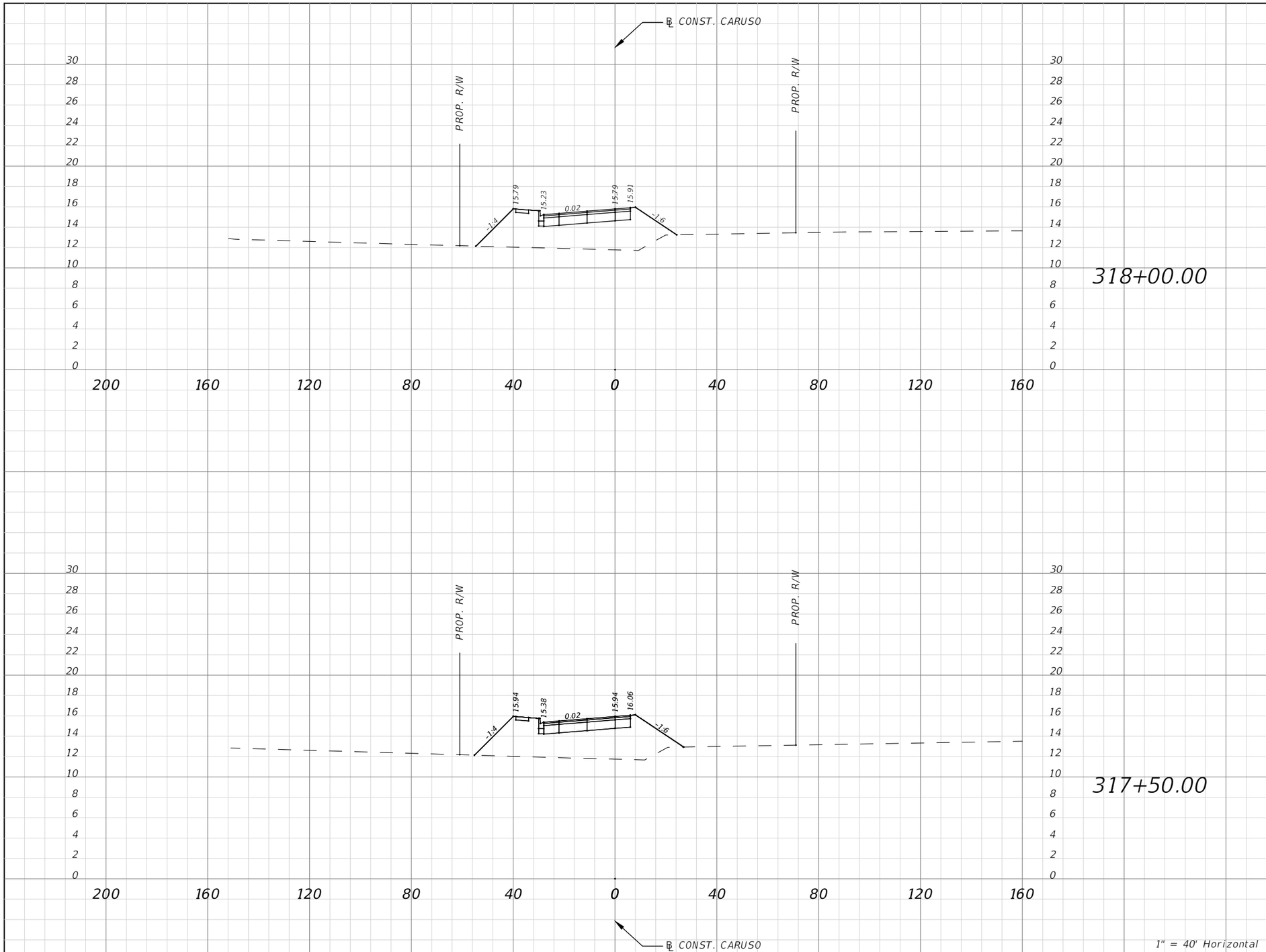
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (98)

SHEET NO.
241

Mitch Johnson 6/20/2019 8:15:15 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	194.87	378.17
		0.00	0.00	213.56	406.41

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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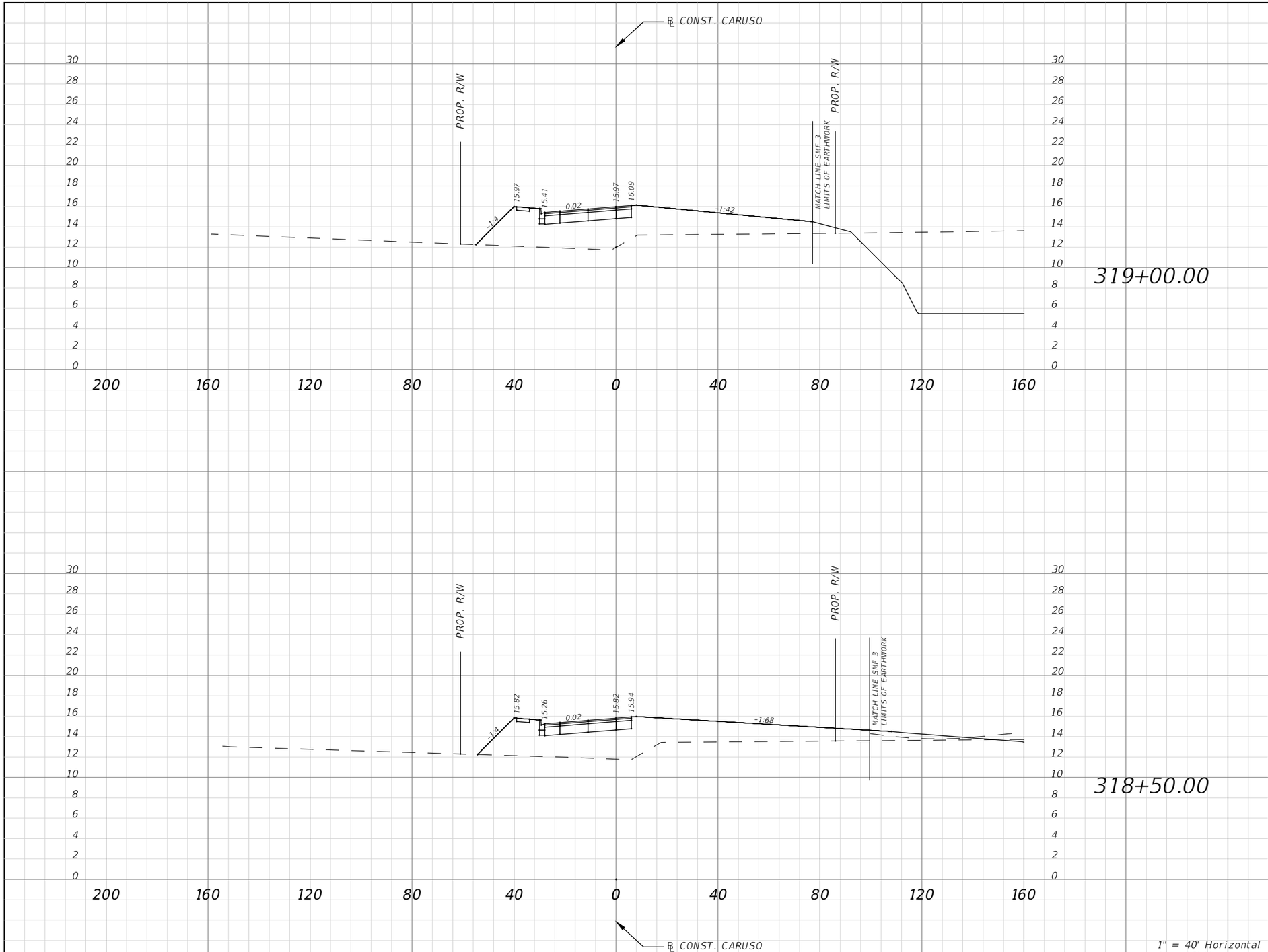
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (99)

SHEET NO.
242

Mitch Johnson 6/20/2019 8:15:42 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	307.47	591.88
		0.00	0.00	339.07	494.39

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

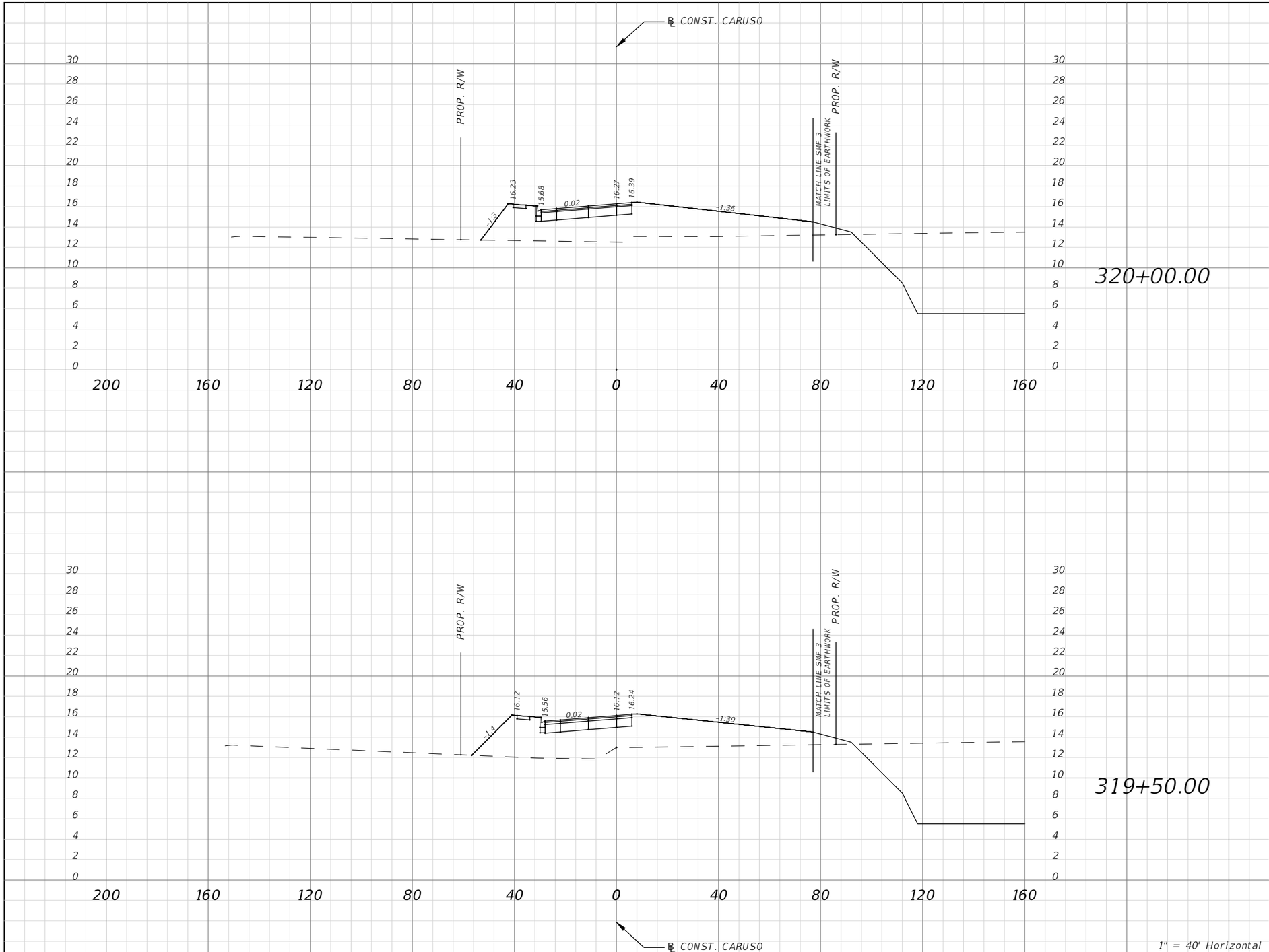
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (100)

SHEET NO.
243

Mitch Johnson 6/20/2019 8:16:10 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	311.92	589.07
		0.00	0.00	329.01	586.07

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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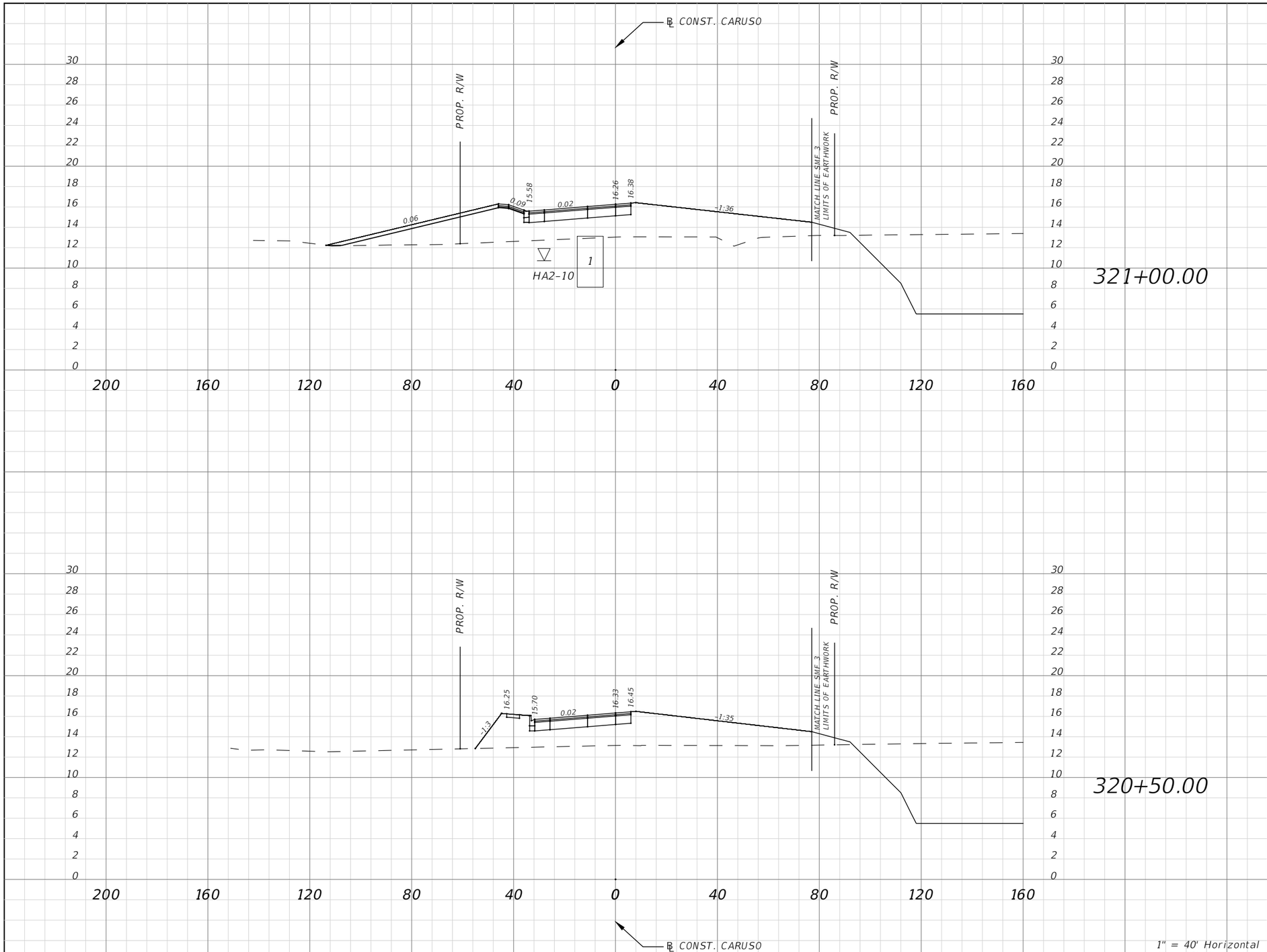
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CROSS SECTION (101)

SHEET NO.
244

Mitch Johnson 6/20/2019 8:16:38 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	425.30	668.05
		0.00	0.00	294.24	555.63

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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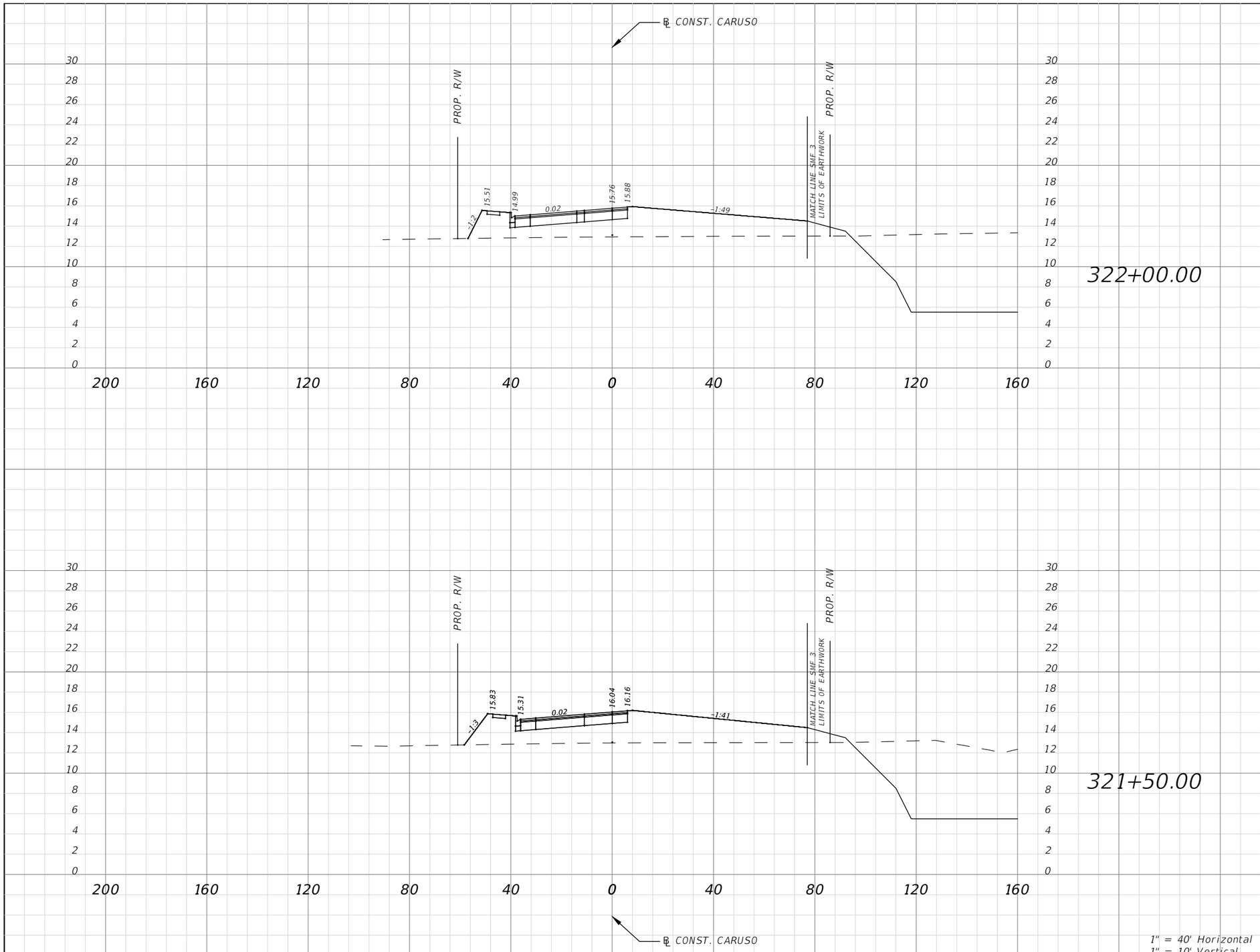
DESIGN ENGINEER
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67495

CROSS SECTION (102)

SHEET NO.
245

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	258.64	496.94
		0.00	0.00	284.70	659.14

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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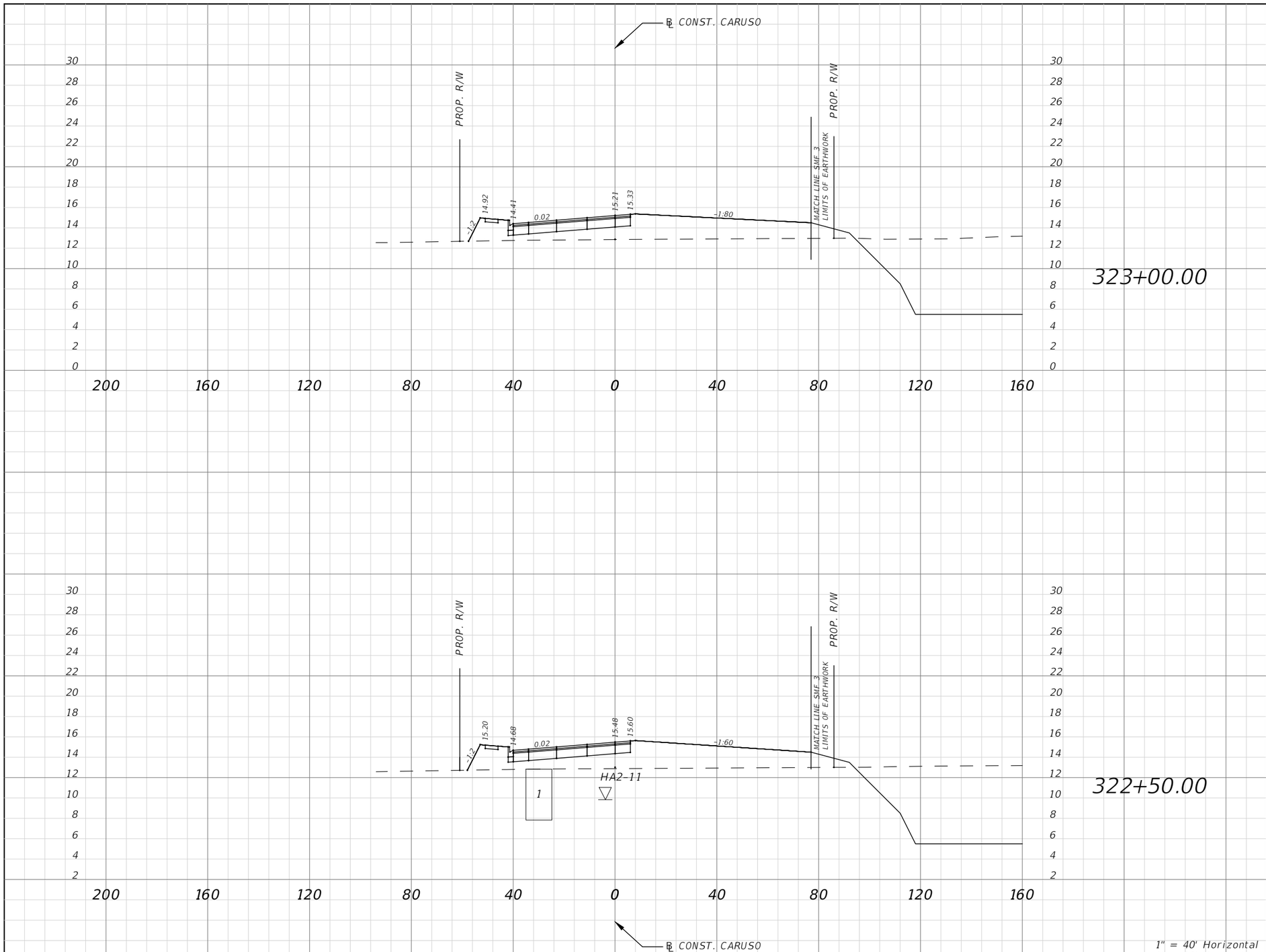
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CROSS SECTION (103)

SHEET NO.
246

Mitch Johnson 2/6/2019 11:46:11 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	215.13	412.01
		0.00	0.00	237.17	452.59

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

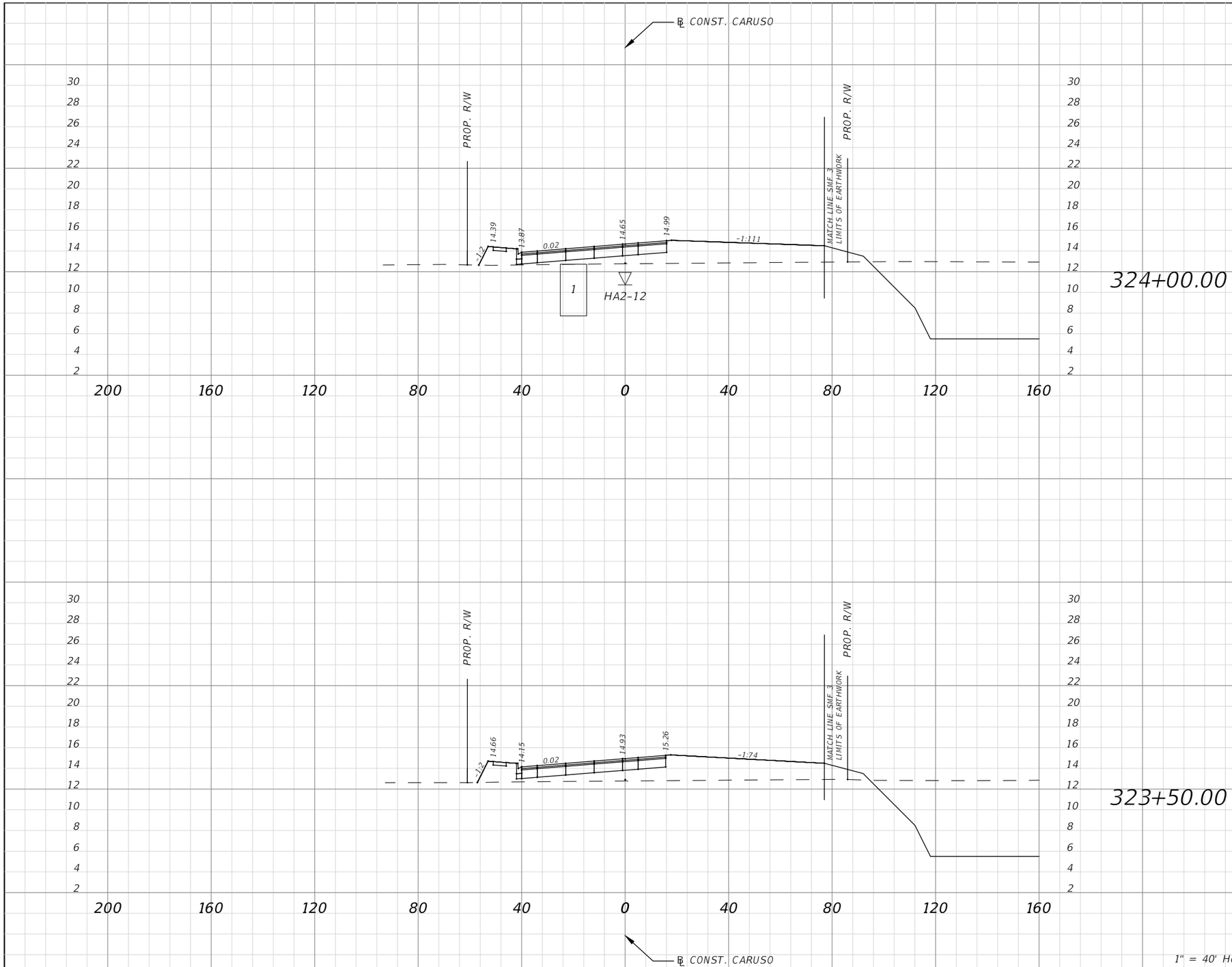
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (104)

SHEET NO.
247

Mitch Johnson 2/6/2019 11:47:01 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	169.48	329.61
		0.00	0.00	194.86	372.31

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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DATE

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

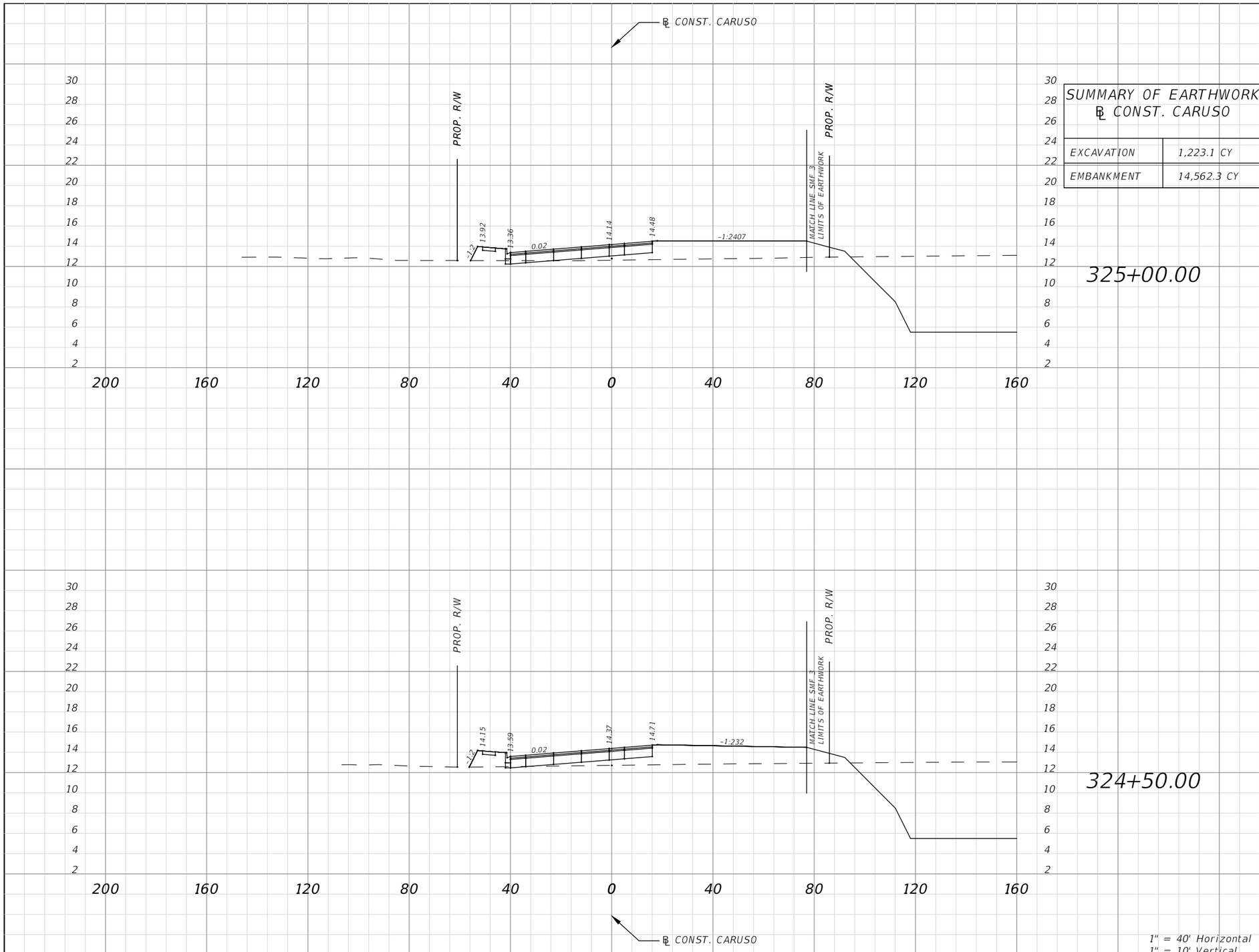
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (105)

SHEET NO.
248

Mitch Johnson 2/6/2019 11:47:52 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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SUMMARY OF EARTHWORK
℄ CONST. CARUSO

EXCAVATION	1,223.1 CY
EMBANKMENT	14,562.3 CY

Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		3.40	3.97	134.85	251.91
		0.74	0.71	145.73	284.69

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
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TAMPA, FL 33634
(813)749-0823
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

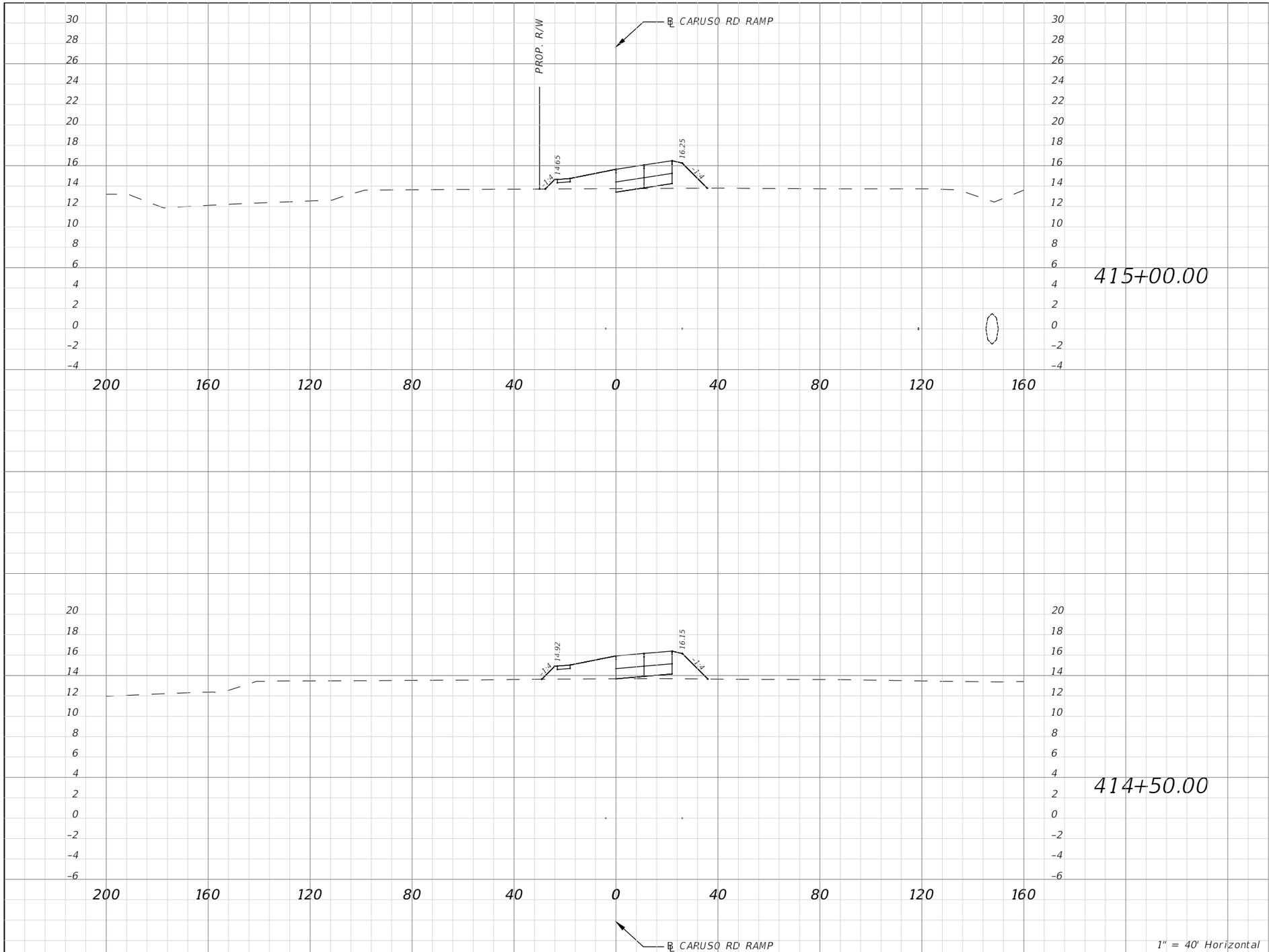
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (106)

SHEET NO.
249

Mitch Johnson 6/25/2019 7:45:23 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD04.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		0.00	0.00	75.69	164.14
		0.00	0.00	101.58	0.00

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

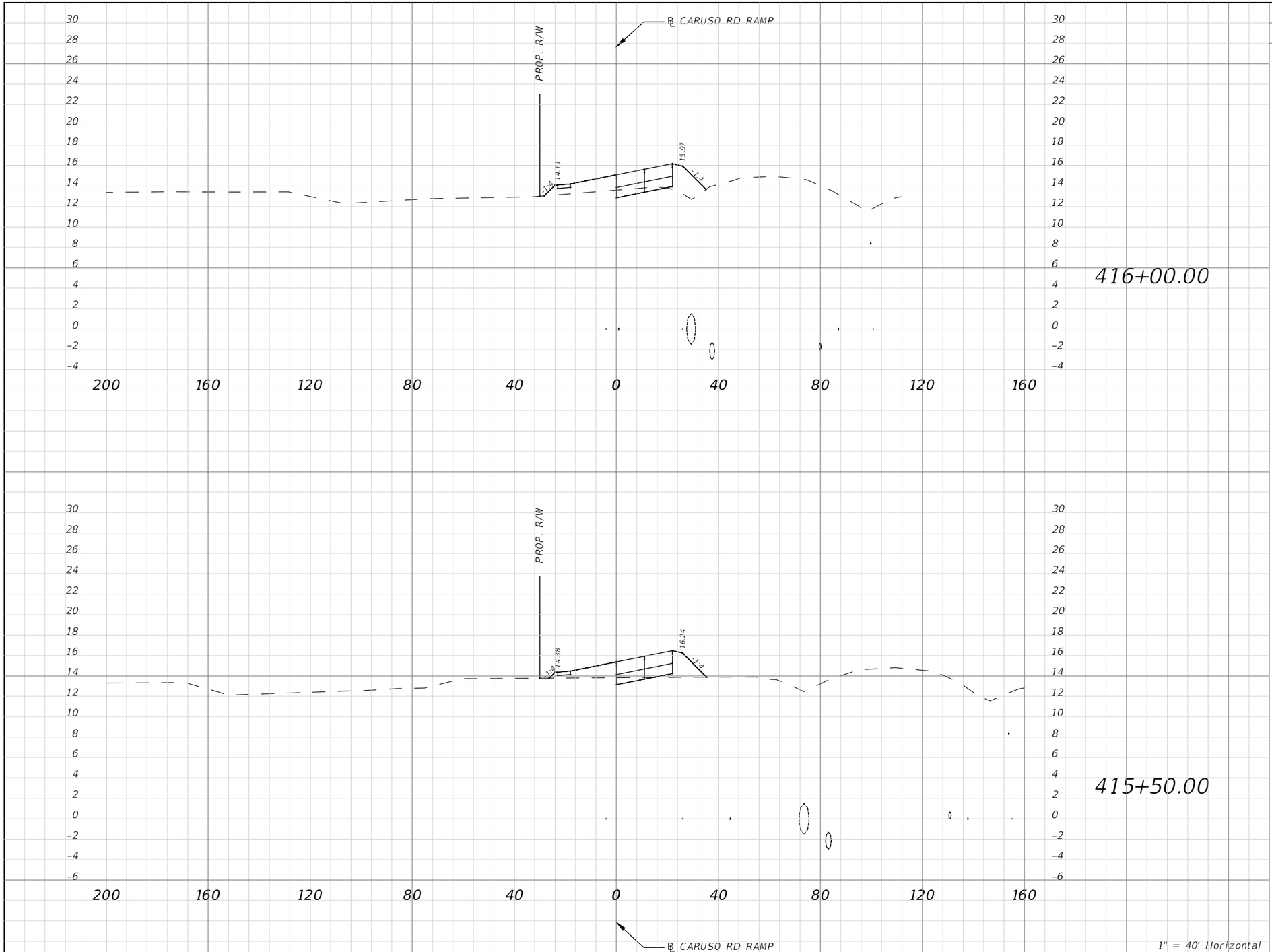
DESIGN ENGINEER
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FL. LICENSE NO.
67495

CROSS SECTION (107)

SHEET NO.
250

Mitch Johnson 2/8/2019 9:56:33 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		4.48	4.15	36.03	68.86
		0.00	0.00	38.85	105.59

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
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TAMPA, FL 33634
(813)749-0823
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

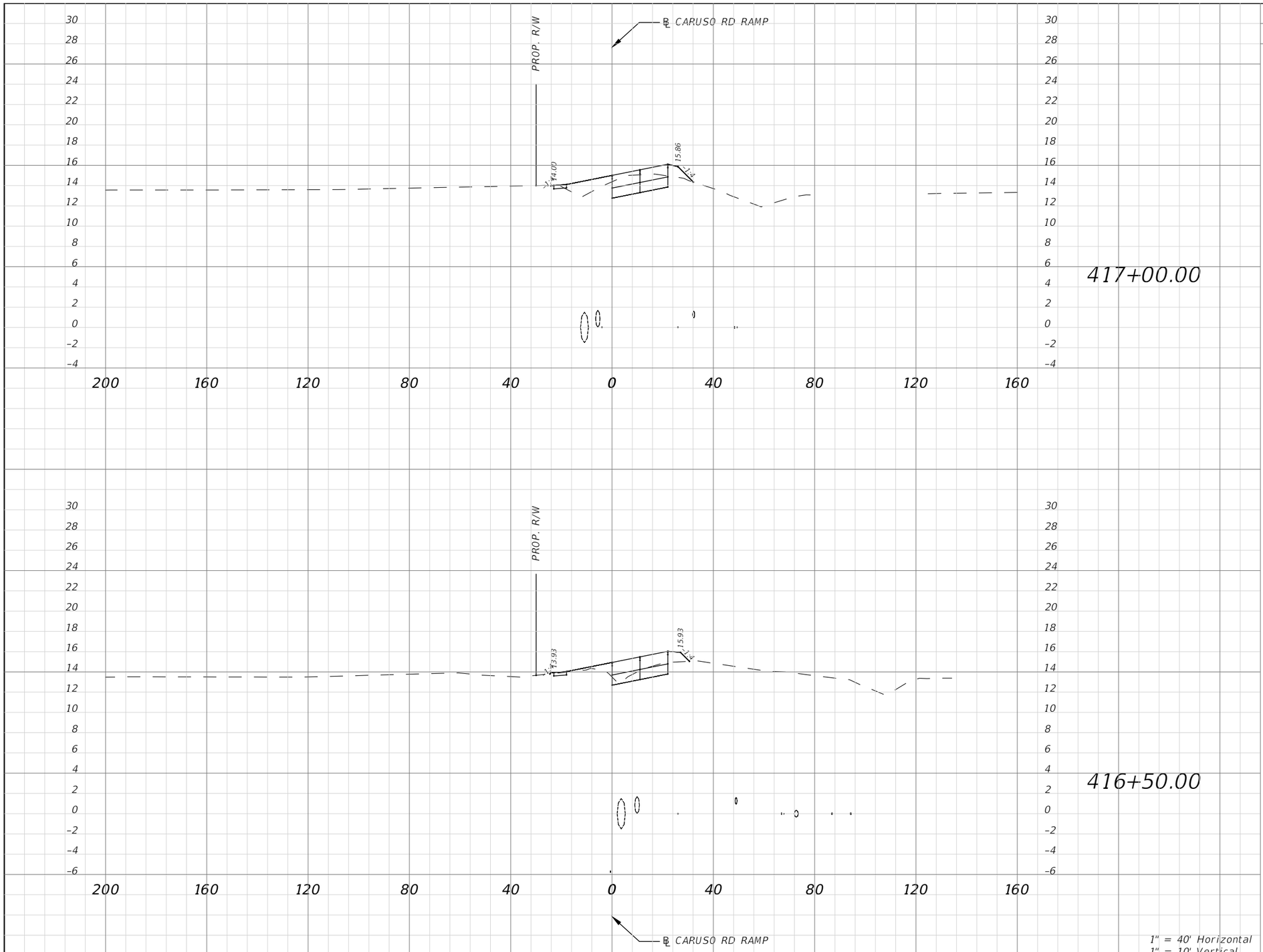
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
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CROSS SECTION (108)

SHEET NO.
251

Mitch Johnson
2/8/2019 9:57:09 AM
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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		32.82	63.11	4.69	25.77
		35.34	36.87	23.14	54.79

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
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DATE

PROJECT NO.
6086960

Manatee County FLORIDA
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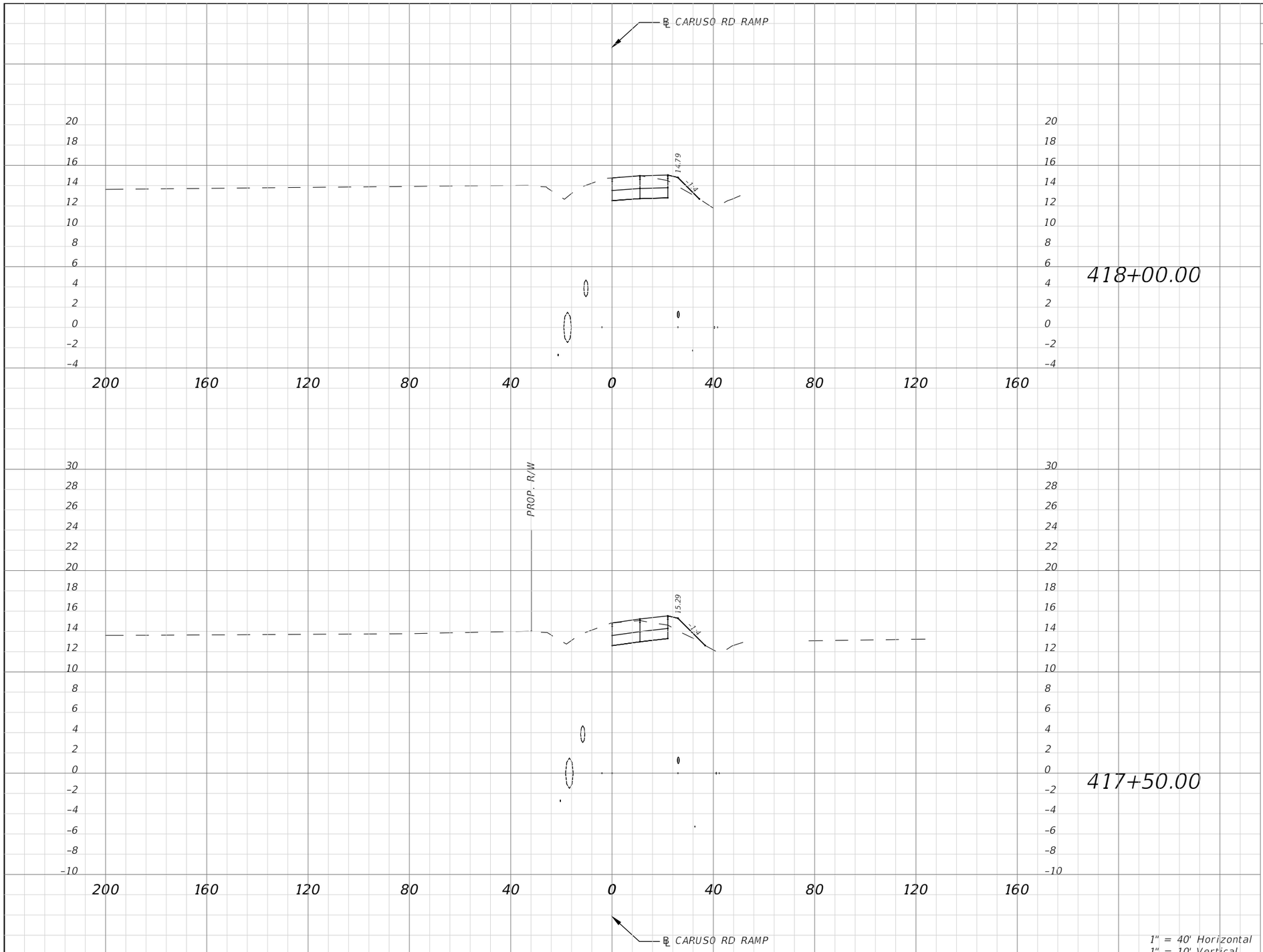
DESIGN ENGINEER
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FL. LICENSE NO.
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CROSS SECTION (109)

SHEET NO.
252

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		32.82	63.11	4.69	25.77
		27.11	55.49	0.72	5.01

No.	REVISIONS	DATE	BY

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CHECKED BY

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ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

CROSS SECTION (110)

SHEET NO.
253

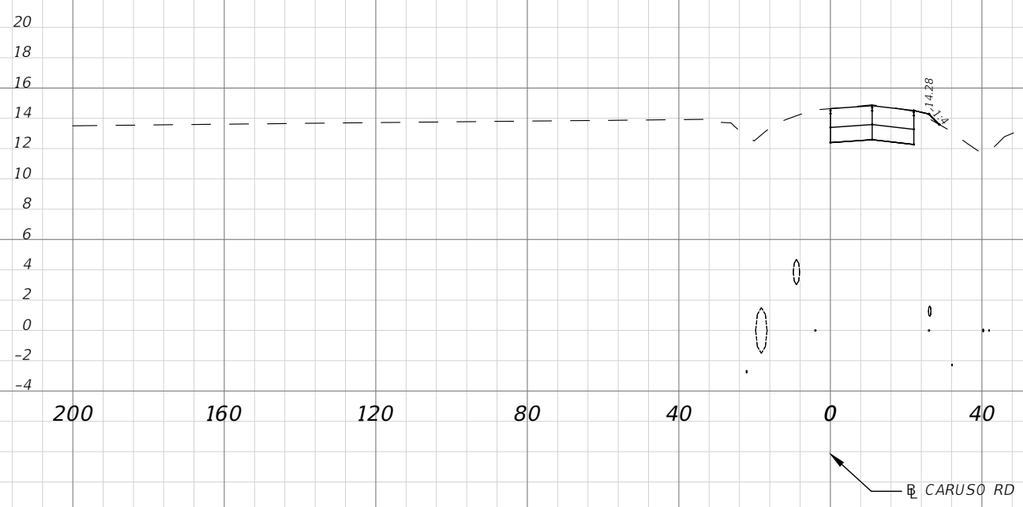
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℄ CARUSO RD RAMP

SUMMARY OF EARTHWORK
℄ CARUSO RD RAMP

EXCAVATION	527.7 CY
EMBANKMENT	515.7 CY



1" = 40' Horizontal
1" = 10' Vertical

Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
		27.11	55.49	0.72	5.01

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

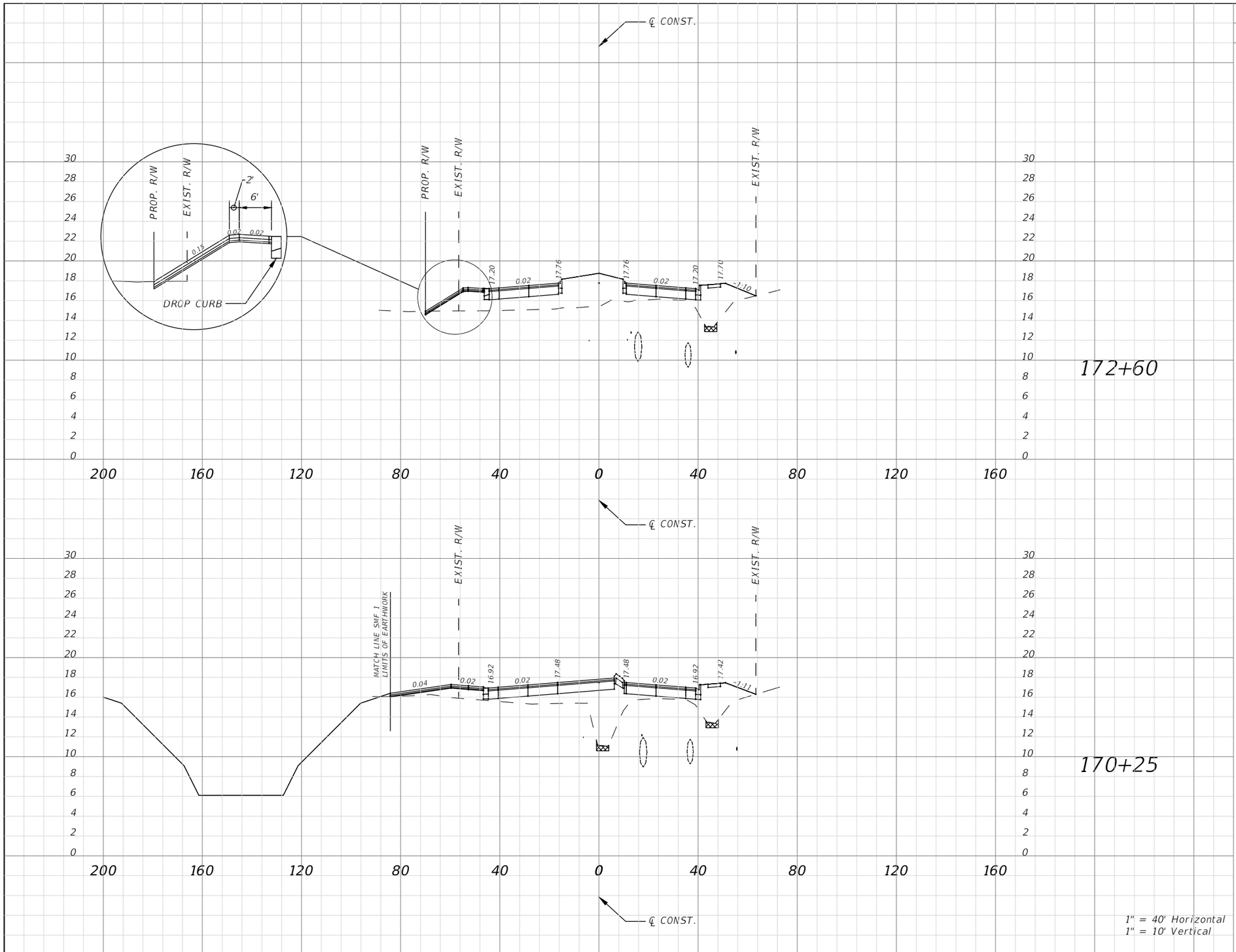
CROSS SECTION (111)

SHEET NO.
254

Mitch Johnson 6/25/2019 8:43:07 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

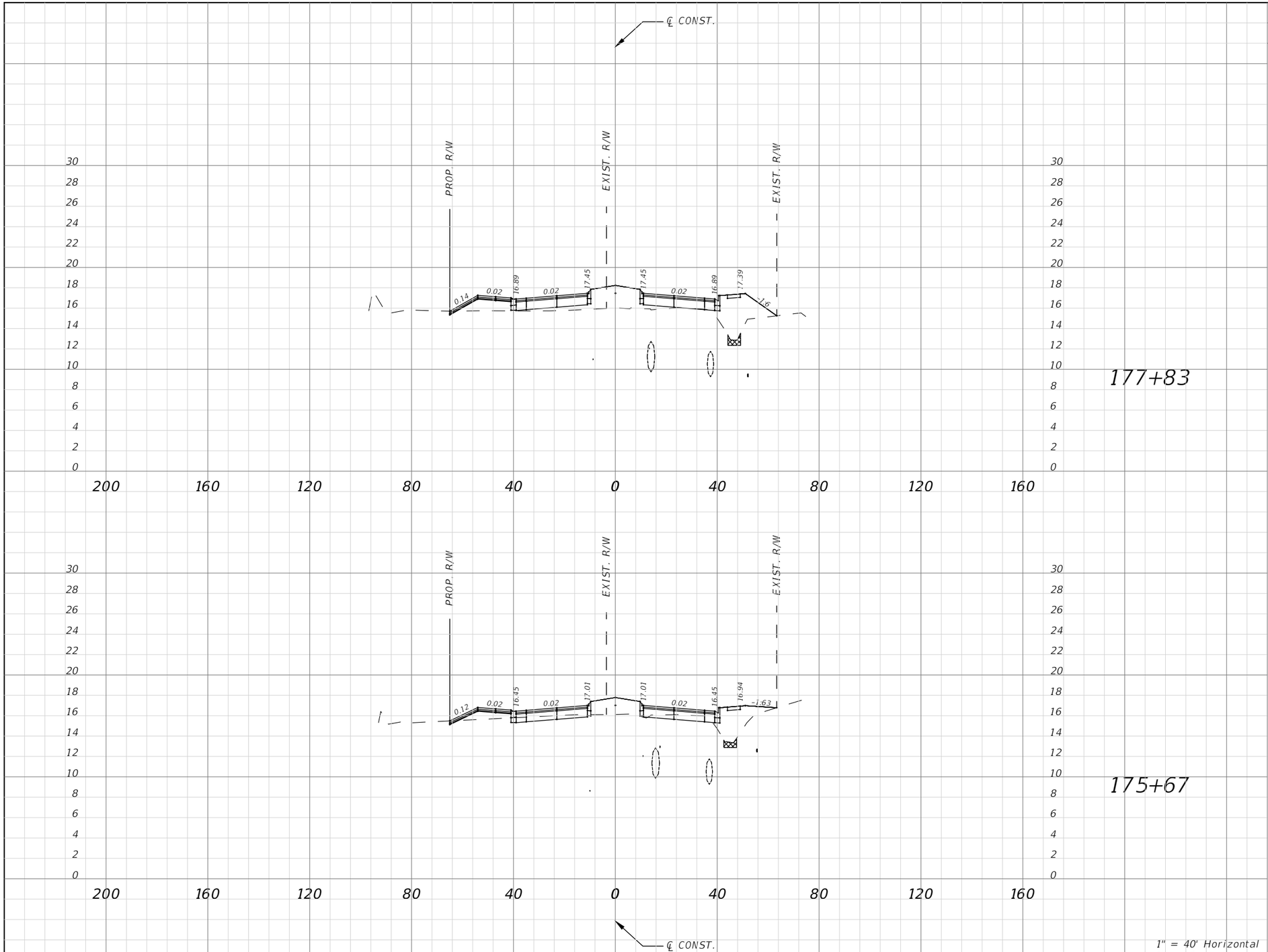
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (112)

SHEET NO.
255

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

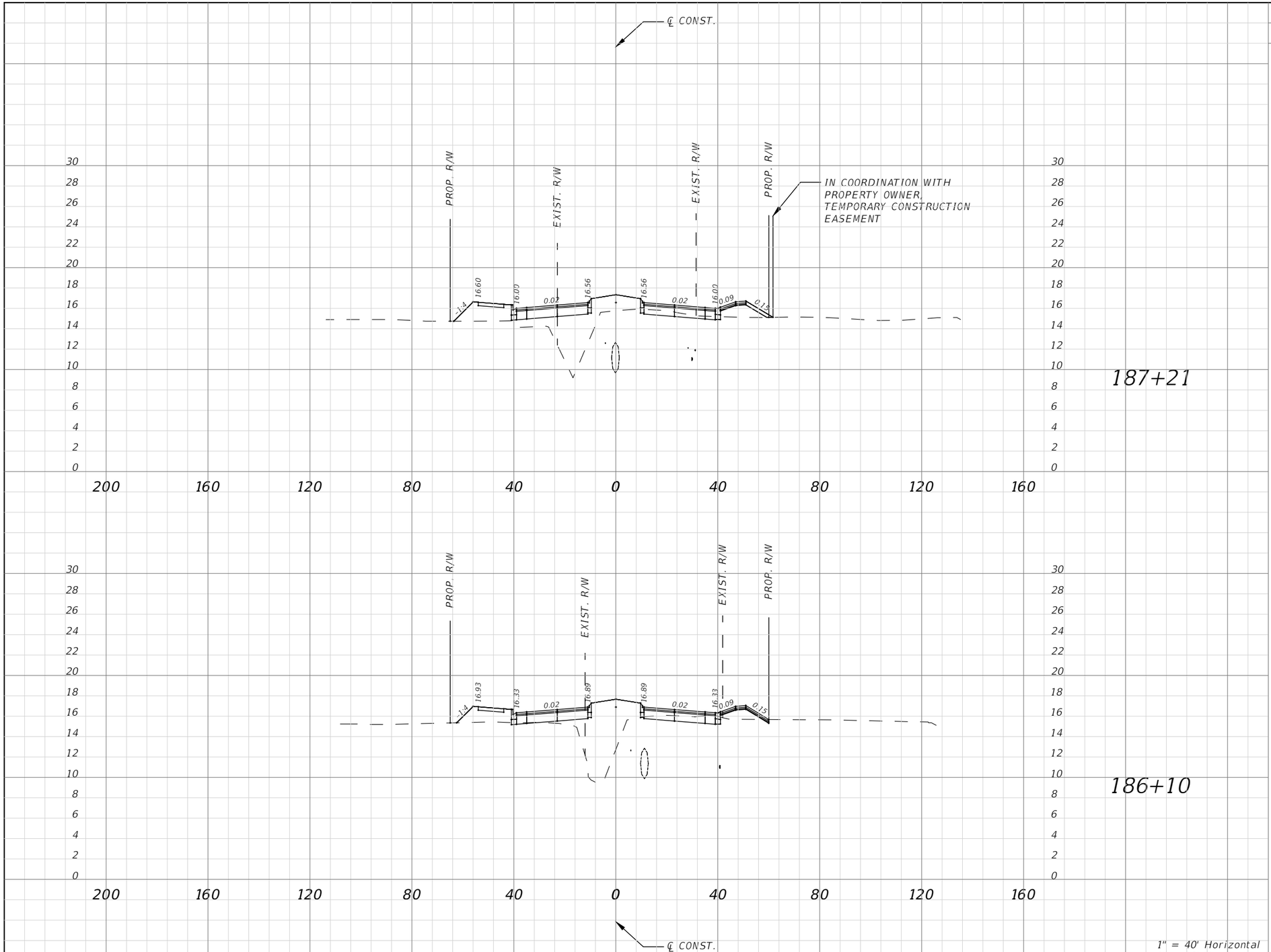
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DRIVEWAY CROSS SECTION (113)

SHEET NO.
256

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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CHECKED BY

ROBERT EDWARD HIDECK, P.E.
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(813)749-0823
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PROJECT NO.
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

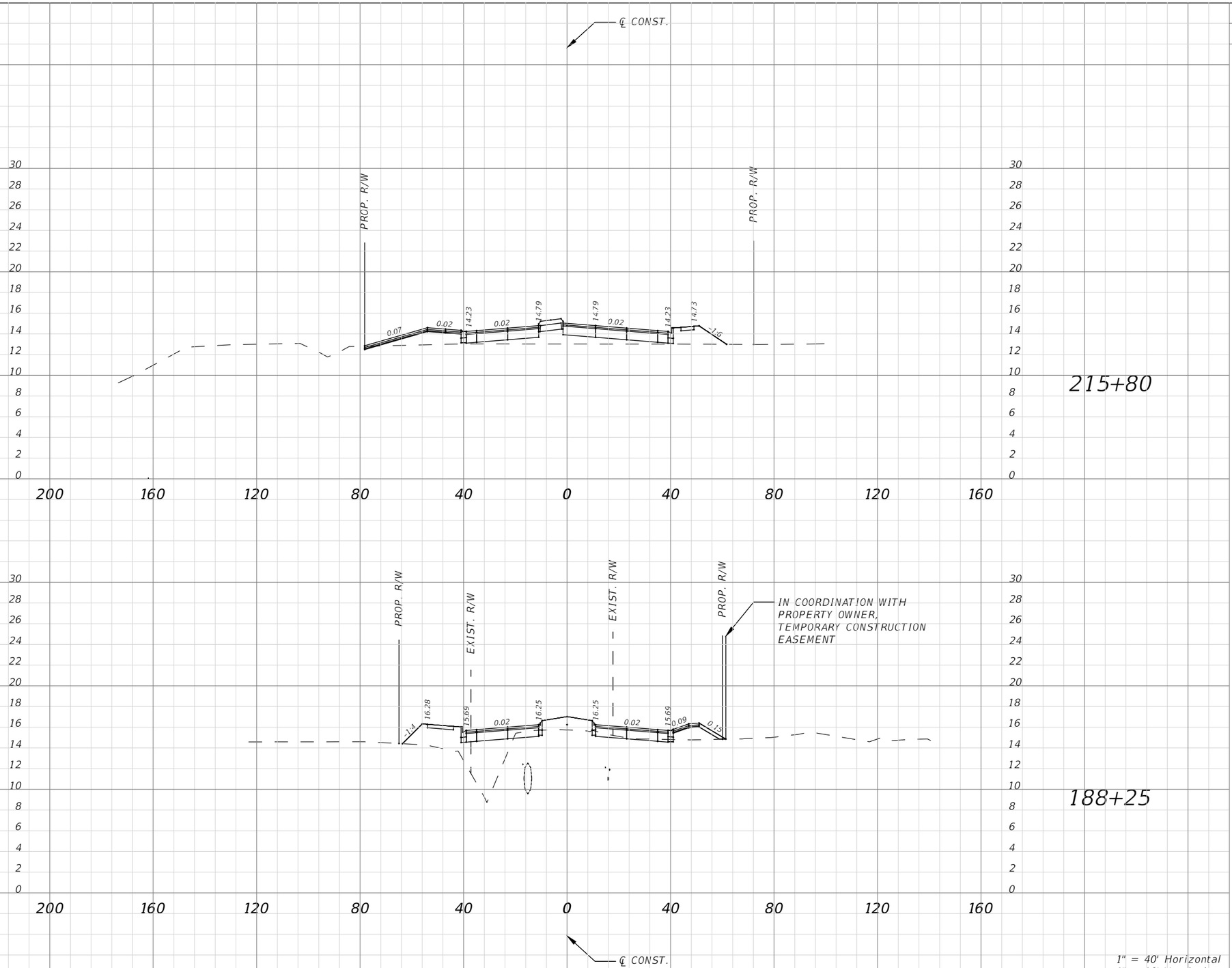
DESIGN ENGINEER
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67495

DRIVEWAY CROSS SECTION (114)

SHEET NO.
257

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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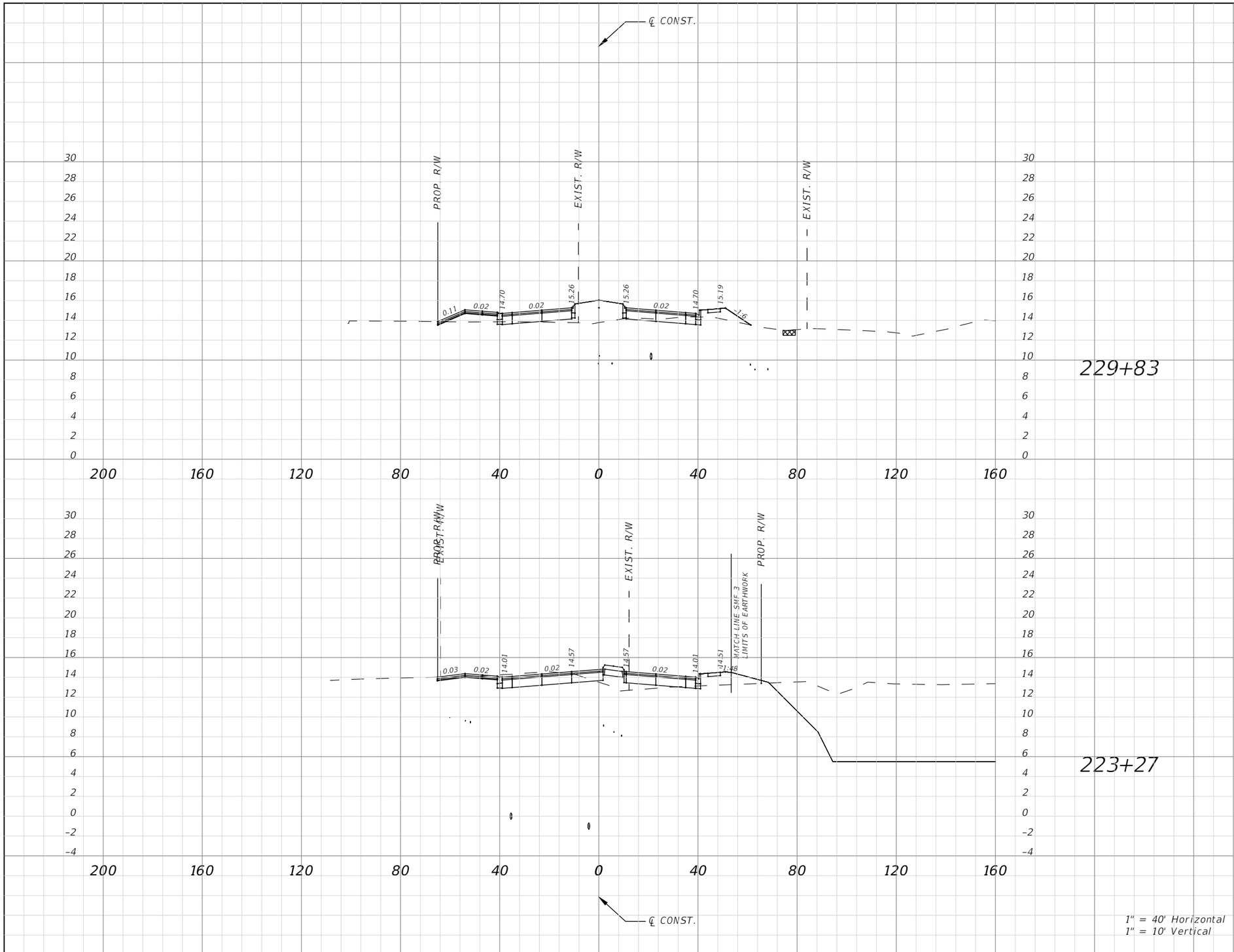
DESIGN ENGINEER
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DRIVEWAY CROSS SECTION (115)

SHEET NO.
258

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

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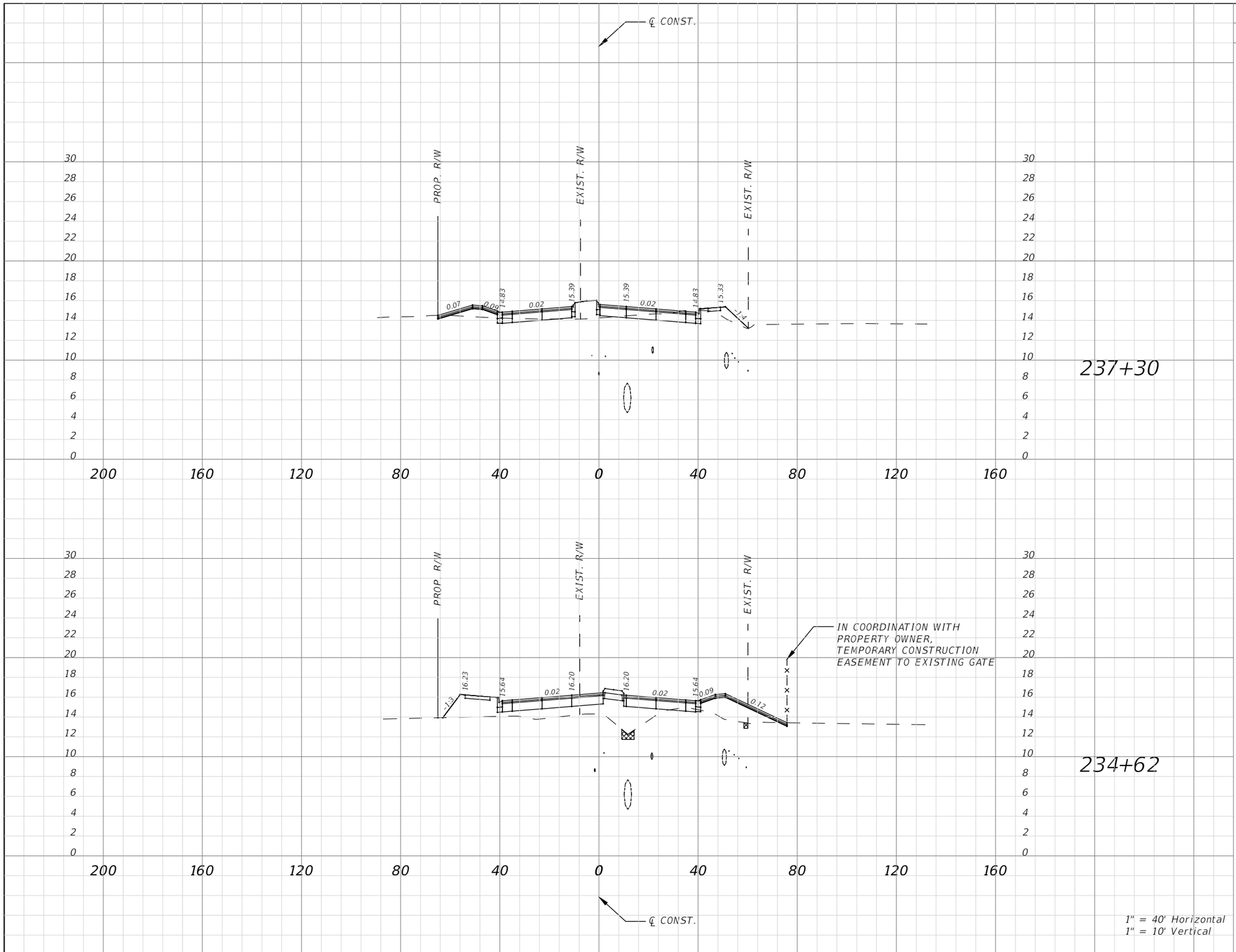
DRIVEWAY CROSS SECTION (116)

SHEET NO.
259

Mitch Johnson 2/8/2019 10:02:19 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ENGINEERING SERVICES
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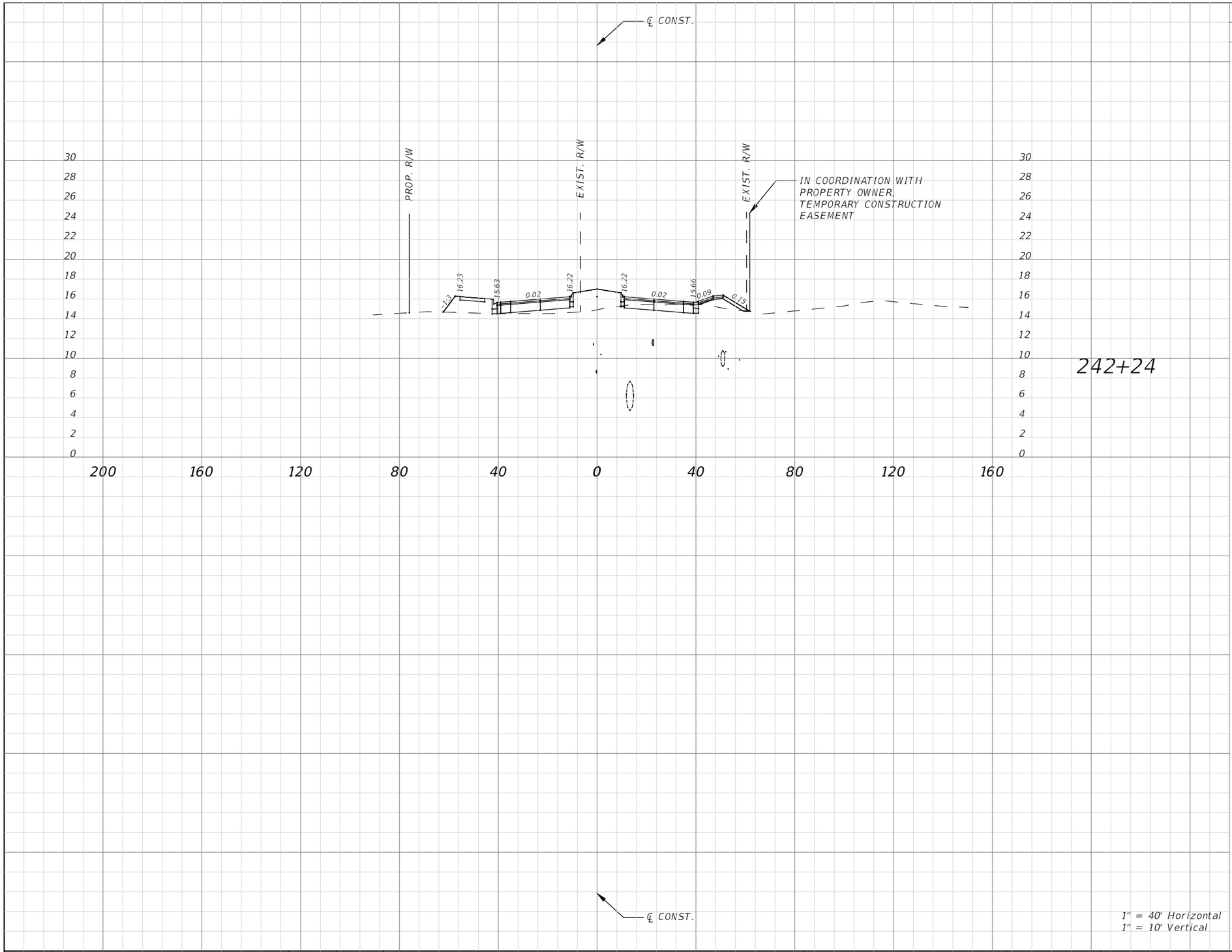
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FL. LICENSE NO.
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DRIVEWAY CROSS SECTION (117)

SHEET NO.
260

Mitch Johnson 2/8/2019 10:02:57 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

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1" = 10' Vertical

No.	REVISIONS	DATE	BY

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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

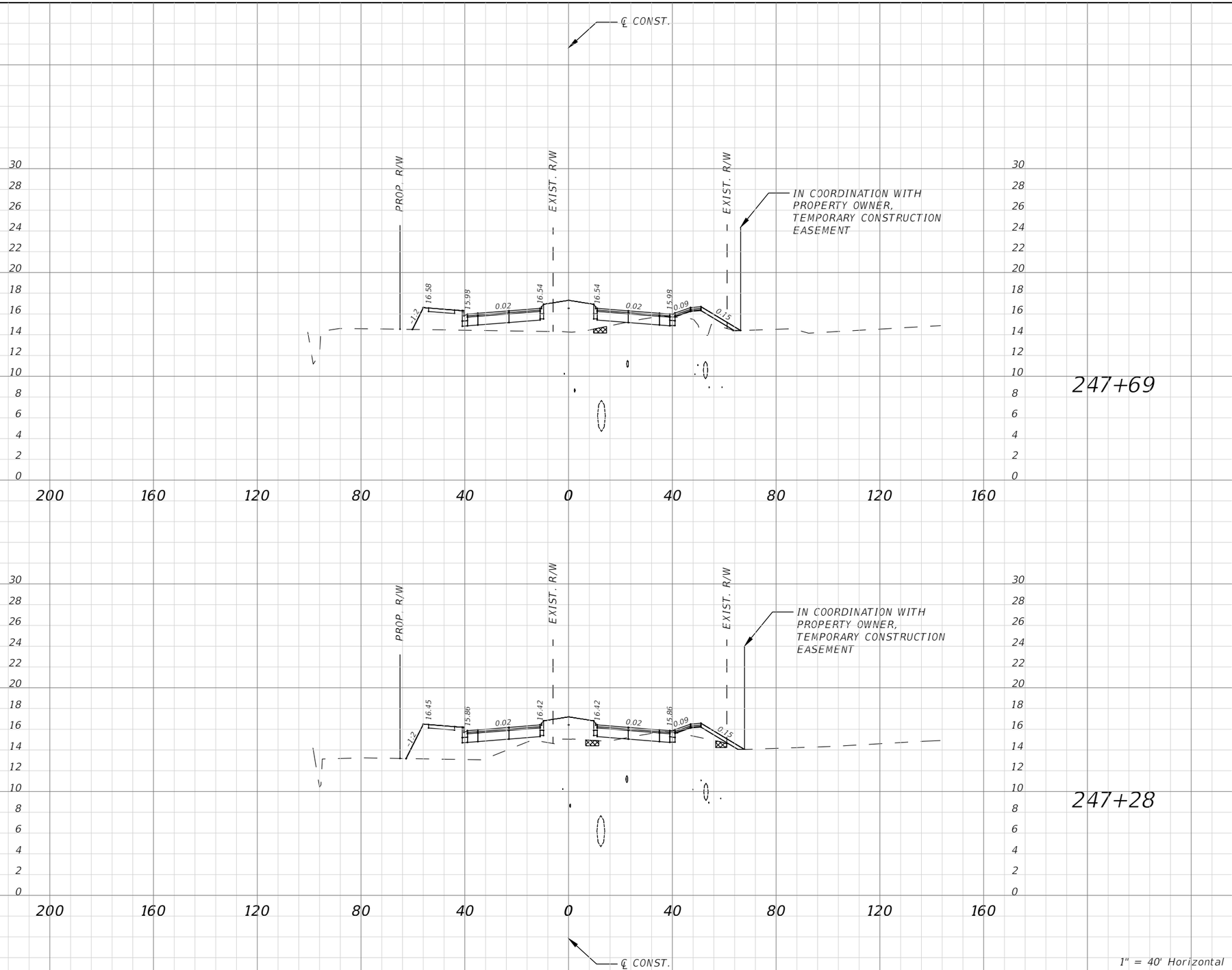
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (118)

SHEET NO.
261

Mitch Johnson 2/8/2019 10:03:38 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813)749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE

PROJECT NO.
6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

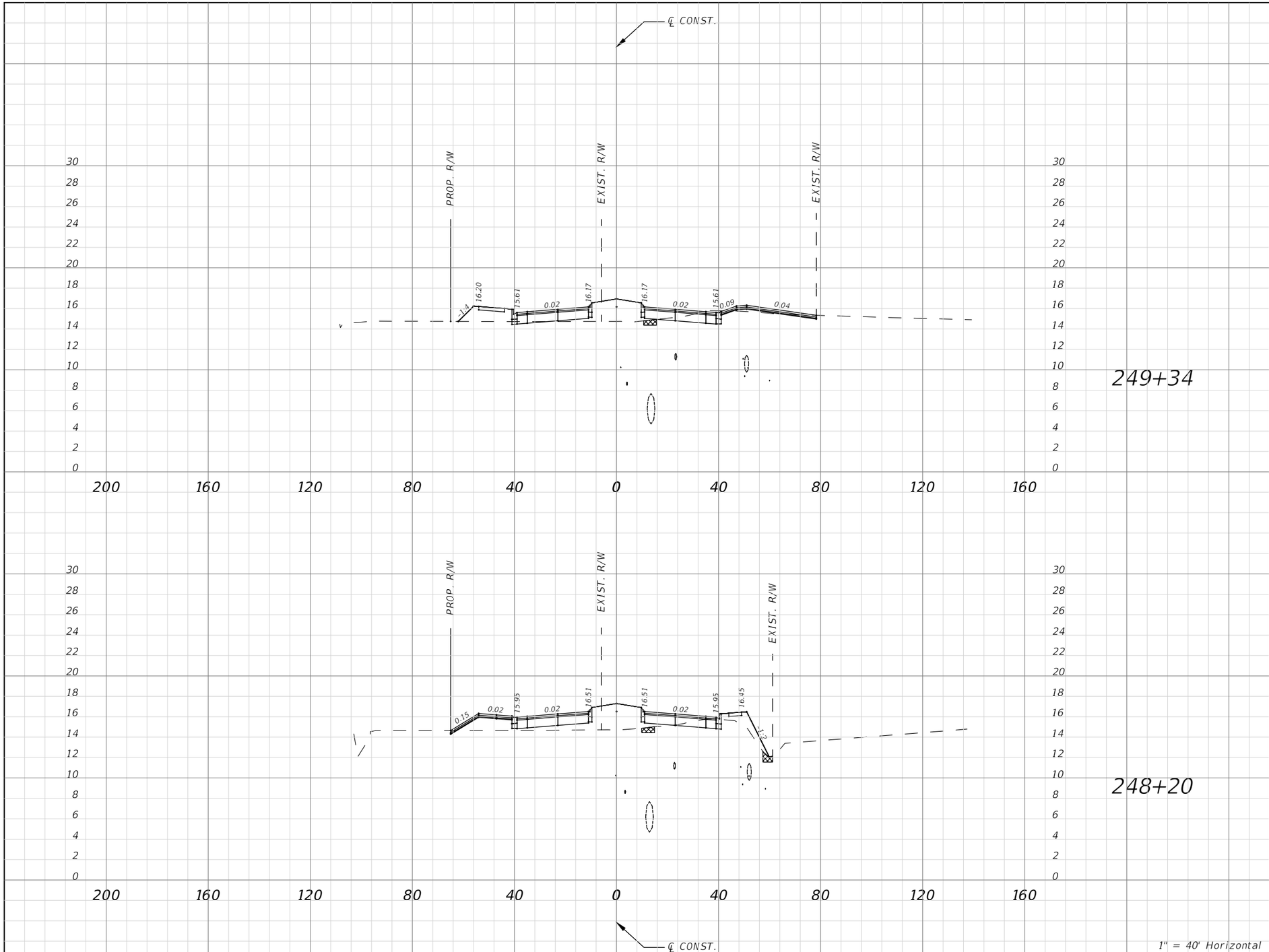
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (119)

SHEET NO.
262

Mitch Johnson 2/8/2019 10:04:17 AM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\RDXSRD05.dwg

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

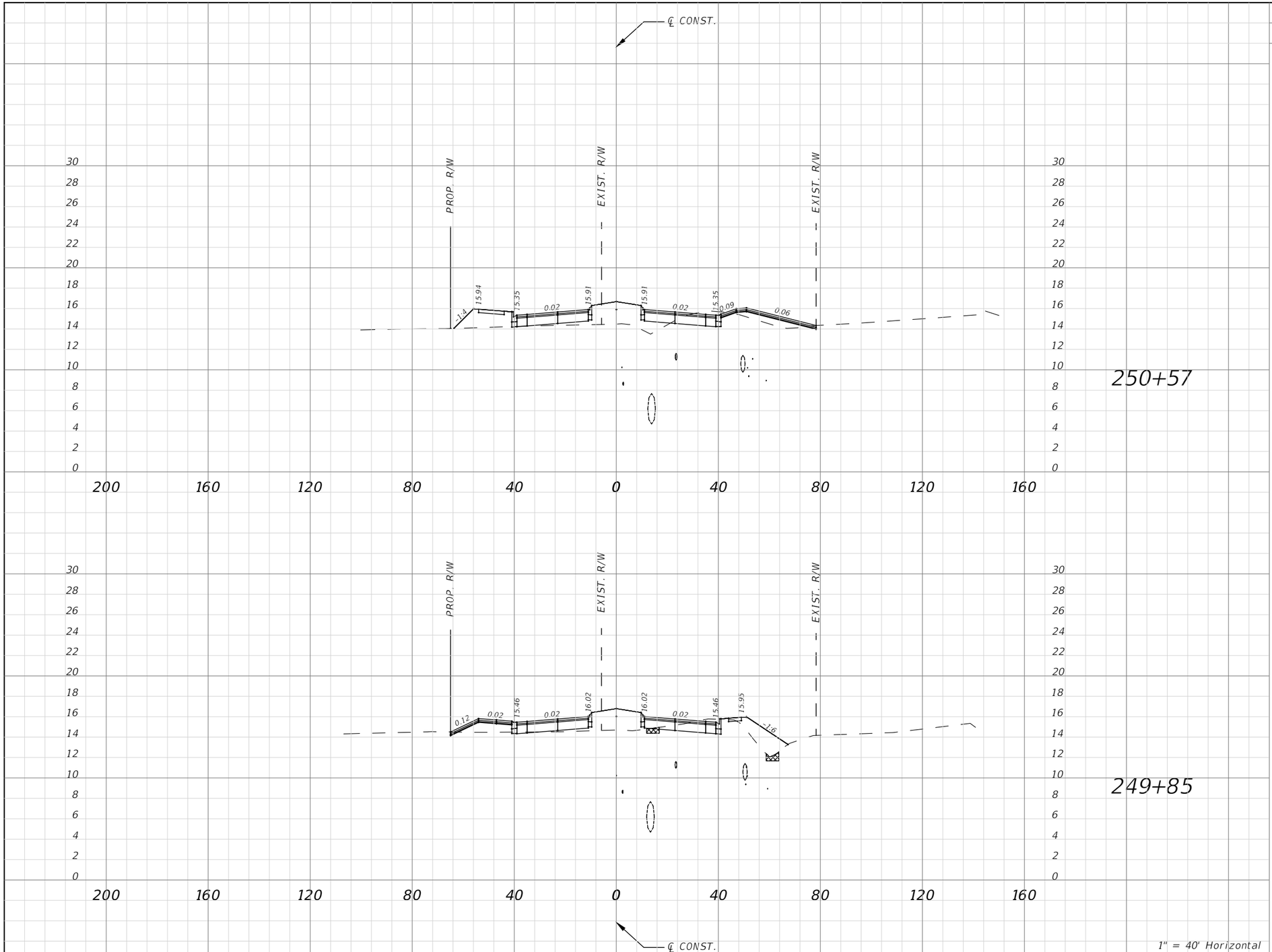
DESIGN ENGINEER
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FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (120)

SHEET NO.
263

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
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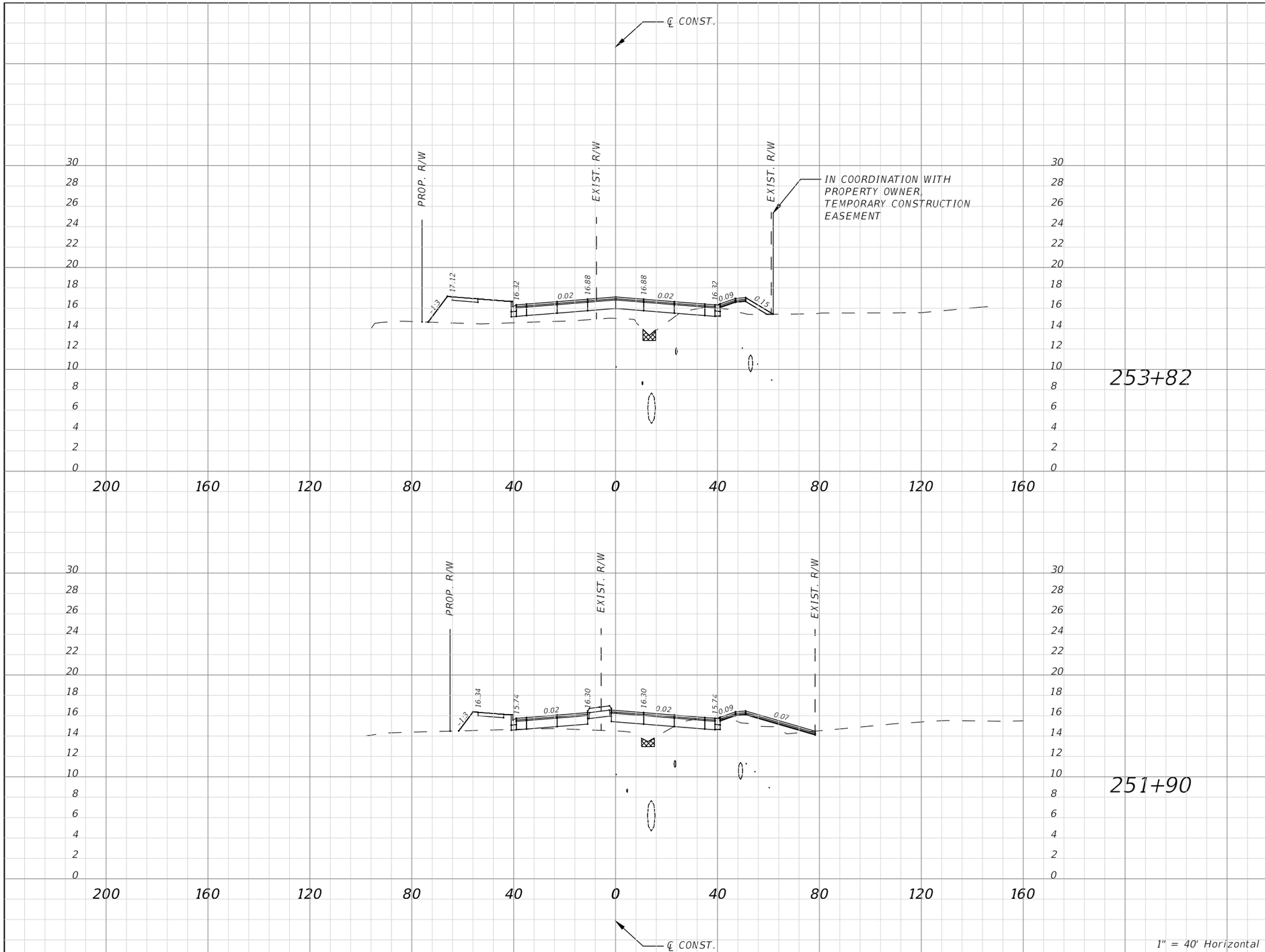
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (121)

SHEET NO.
264

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1" = 40' Horizontal
1" = 10' Vertical

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA
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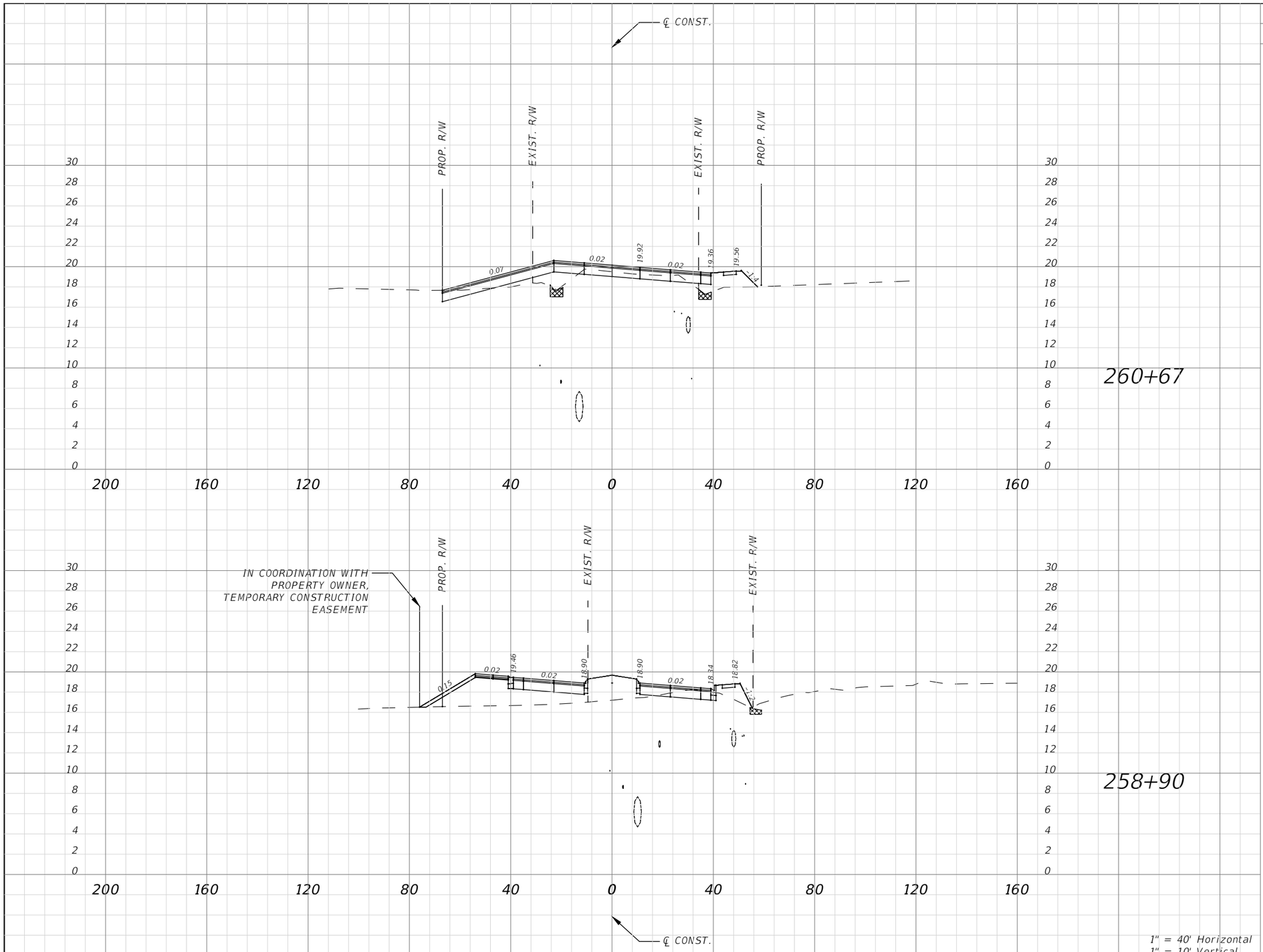
DESIGN ENGINEER
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FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (122)

SHEET NO.
265

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A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

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1" = 10' Vertical

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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

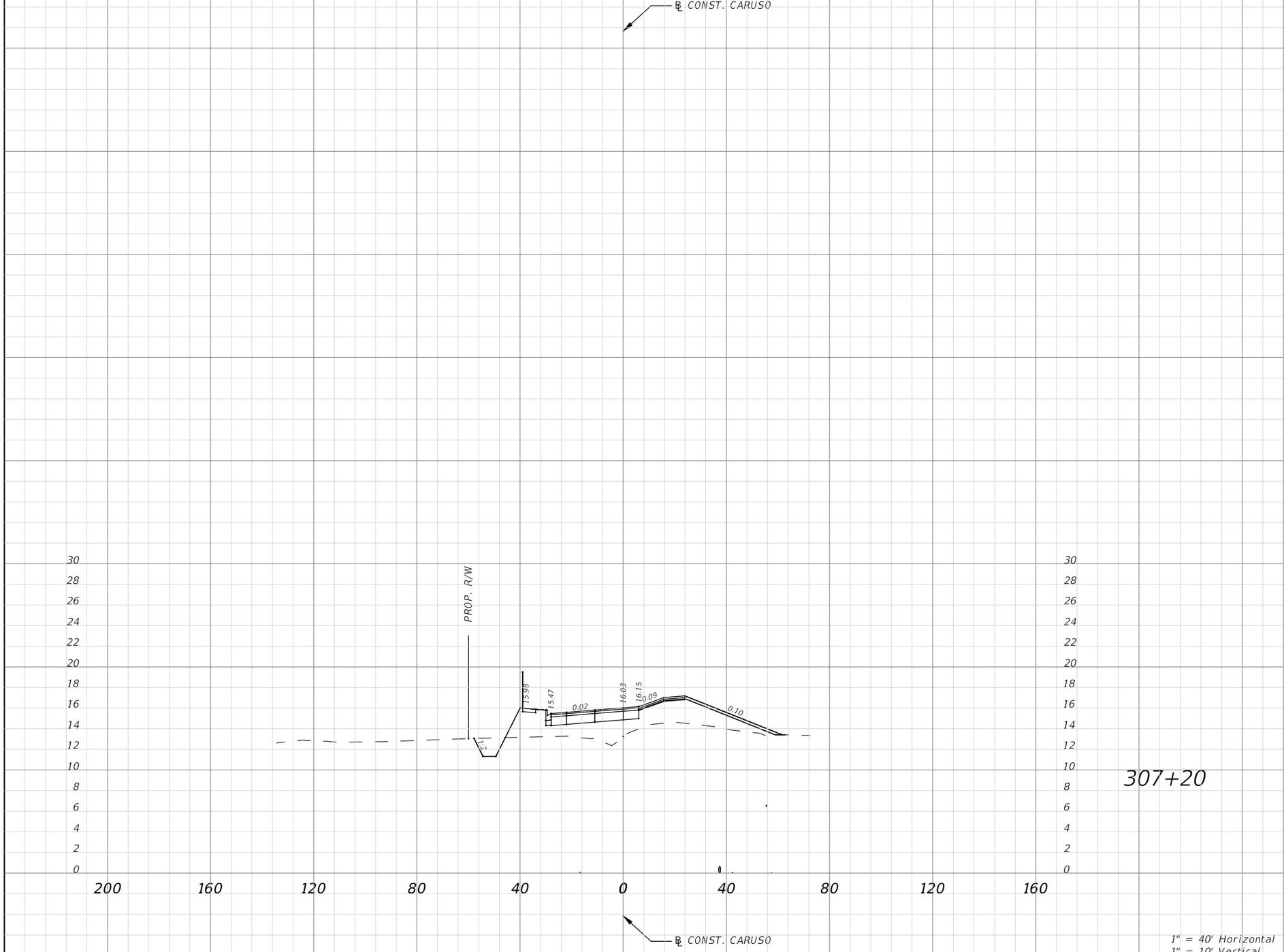
DRIVEWAY CROSS SECTION (123)

SHEET NO.
266

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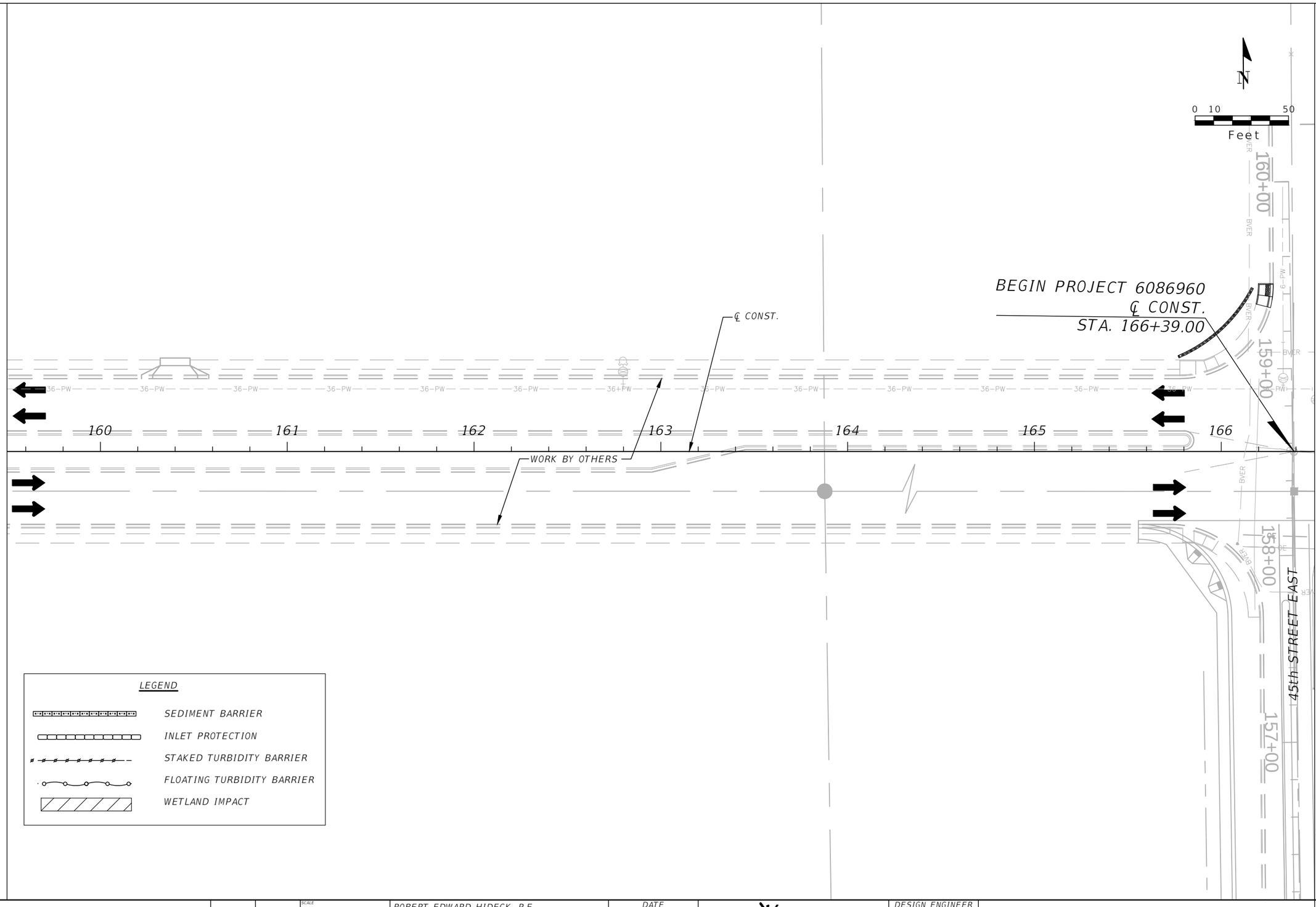
DESIGN ENGINEER
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FL. LICENSE NO.
67495

DRIVEWAY CROSS SECTION (124)

SHEET NO.
267

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LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER
- WETLAND IMPACT

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

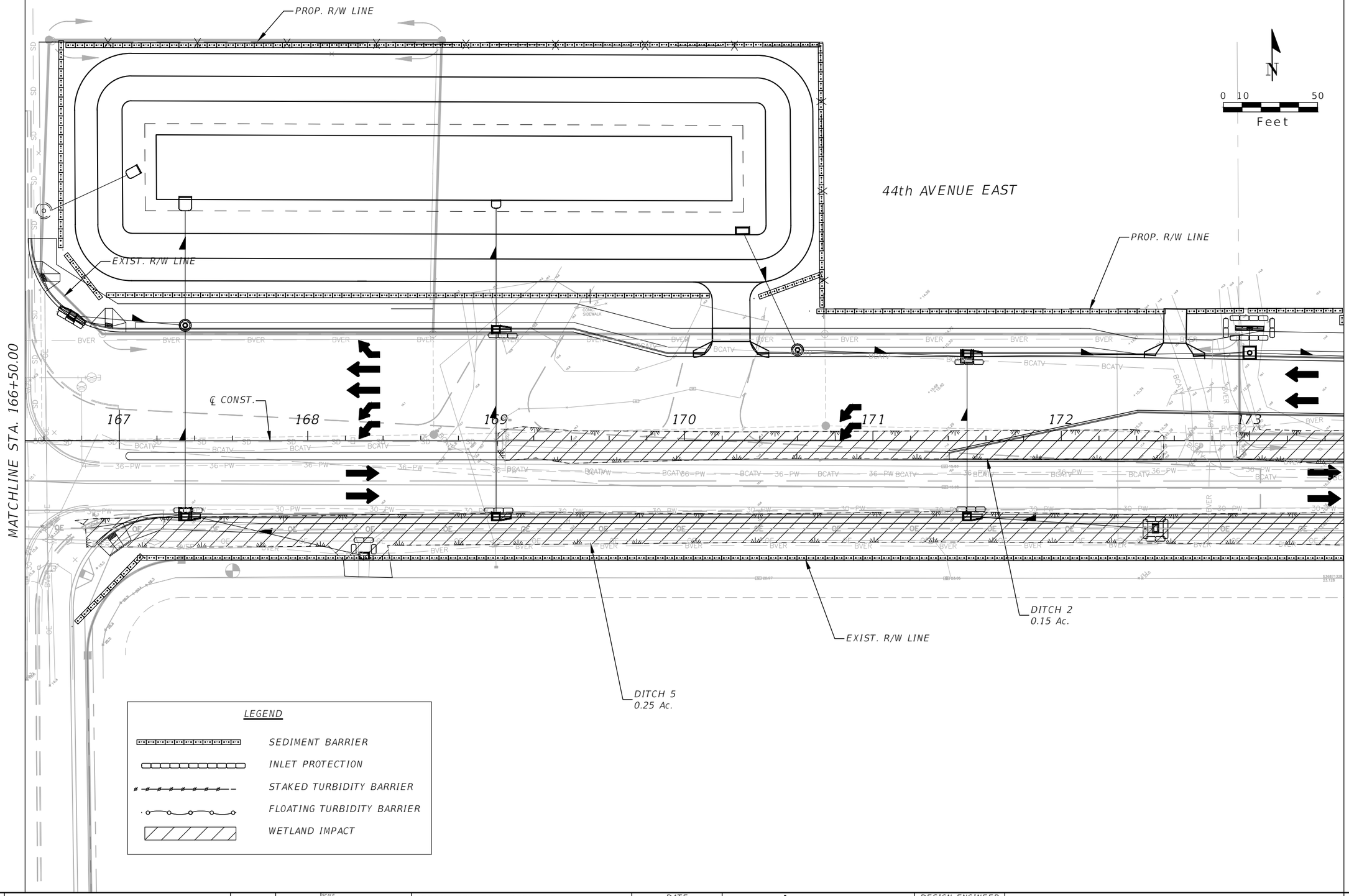
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (1)

SHEET NO.: 268

Mitch Johnson 2/11/2019 4:33:39 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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DRAWN BY:
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

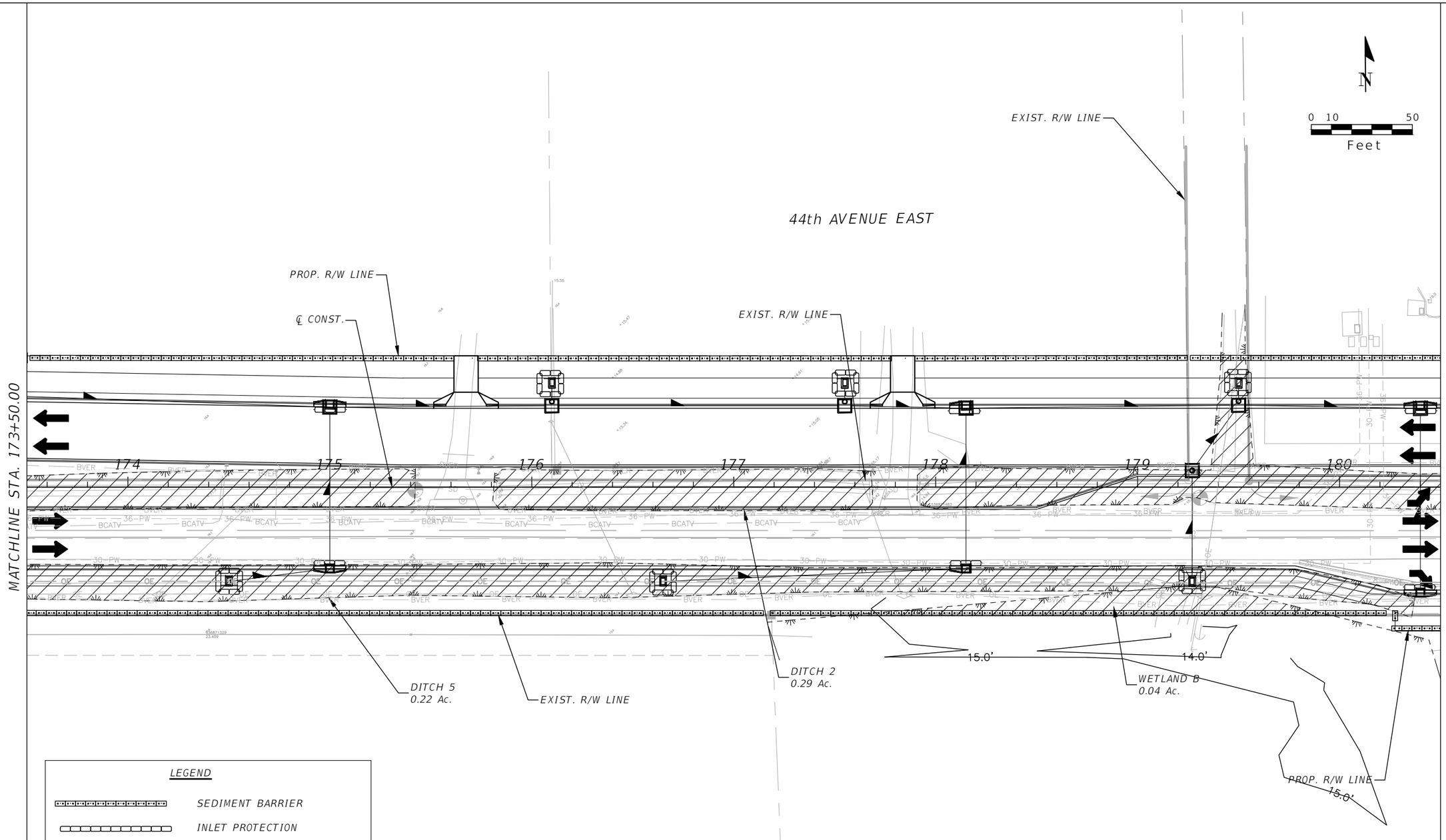
EROSION CONTROL PLANS (2)

SHEET NO.: 269

Mitch Johnson 2/11/2019 4:34:15 PM

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

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EROSION CONTROL PLANS (3)

SHEET NO.: 270

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N

0 10 50
Feet

44th AVENUE EAST

MANATEE COUNTY UTILITIES

PROP. R/W LINE

EXIST. R/W LINE

℄ CONST.

MATCHLINE STA. 180+50.00

MATCHLINE STA. 187+50.00

PC STA. 183+87.05

181 182 183 184 185 186 187

DITCH 2
0.30 Ac.

EXIST. R/W LINE

PROP. R/W LINE

EXIST. R/W LINE

USEPPA DRIVE

PROP. R/W LINE

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER
- WETLAND IMPACT

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
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CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

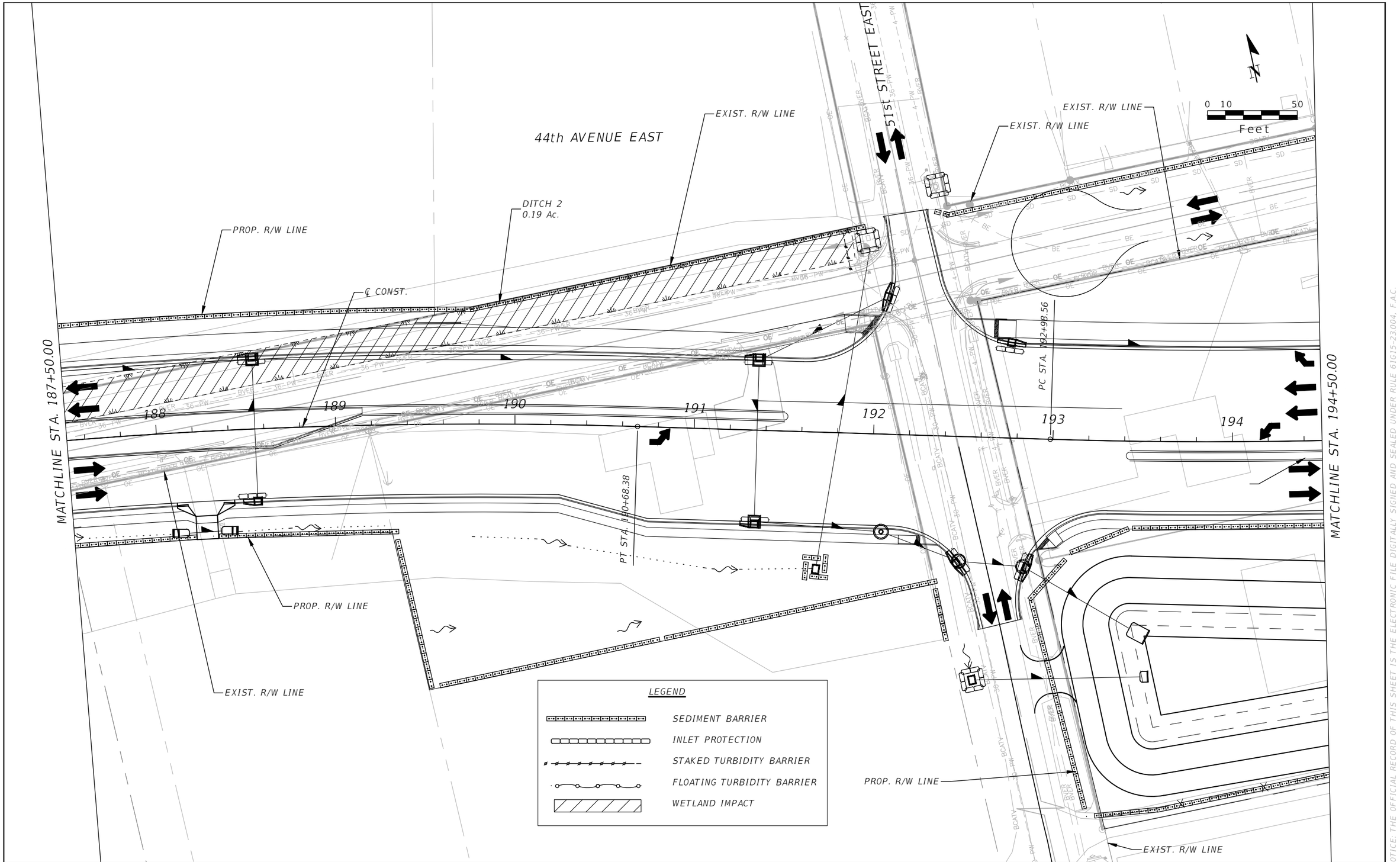
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

EROSION CONTROL PLANS (4)

SHEET NO. 271

Mitch Johnson 2/11/2019 4:35:25 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

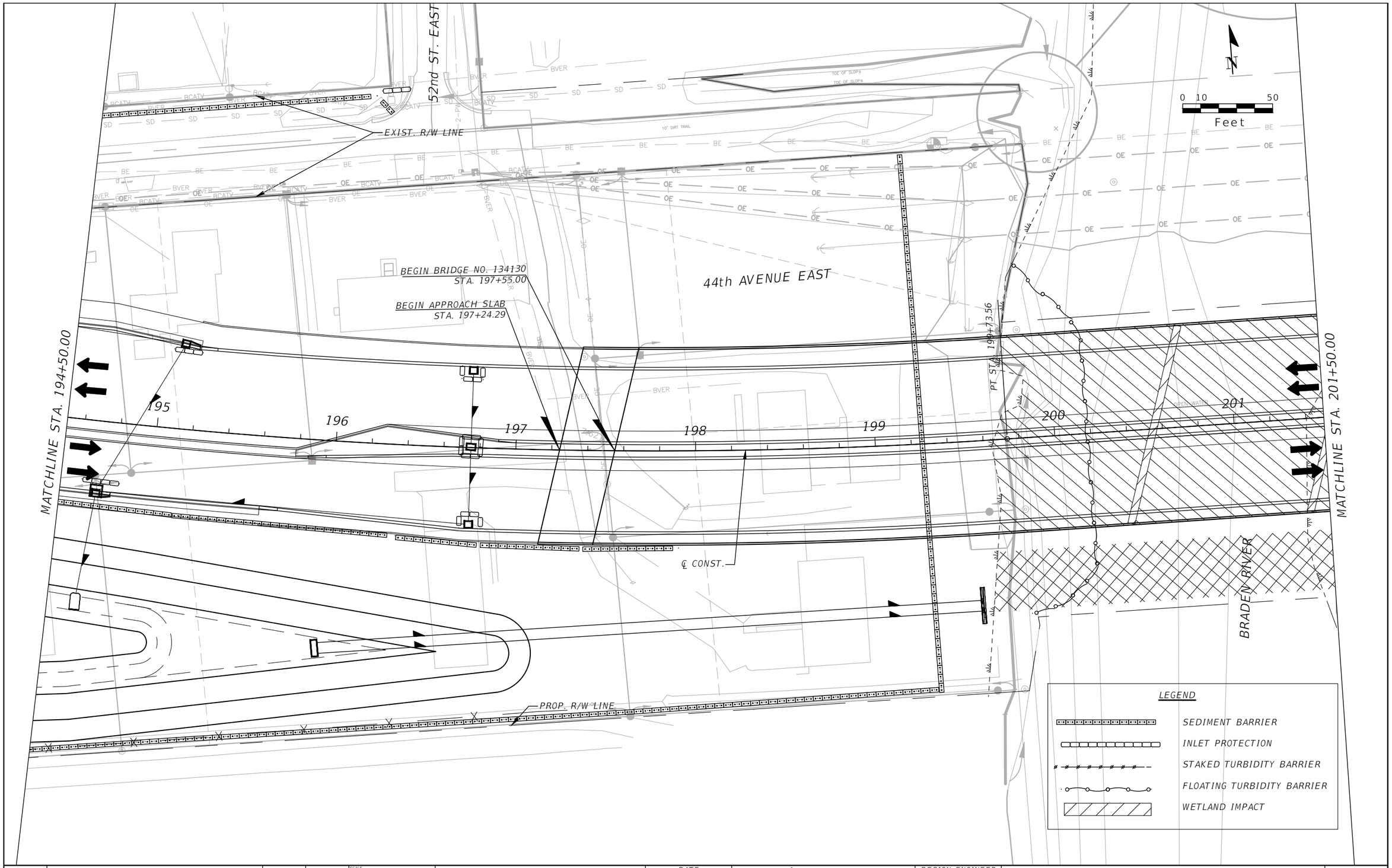
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (5)

SHEET NO.: 272

Mitch Johnson 2/11/2019 4:36:00 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

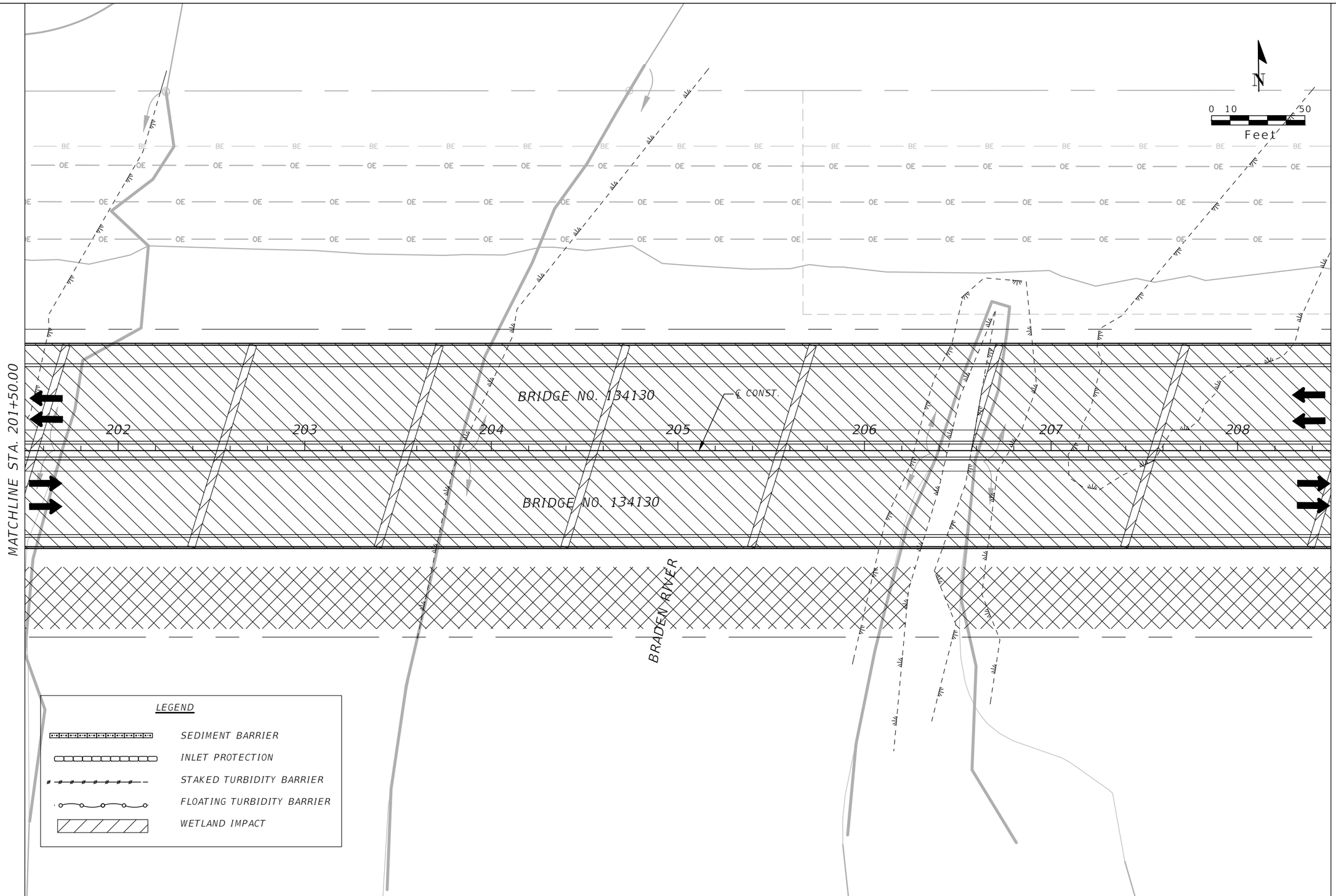
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (6)

SHEET NO.: 273

Mitch Johnson 2/11/2019 4:36:35 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

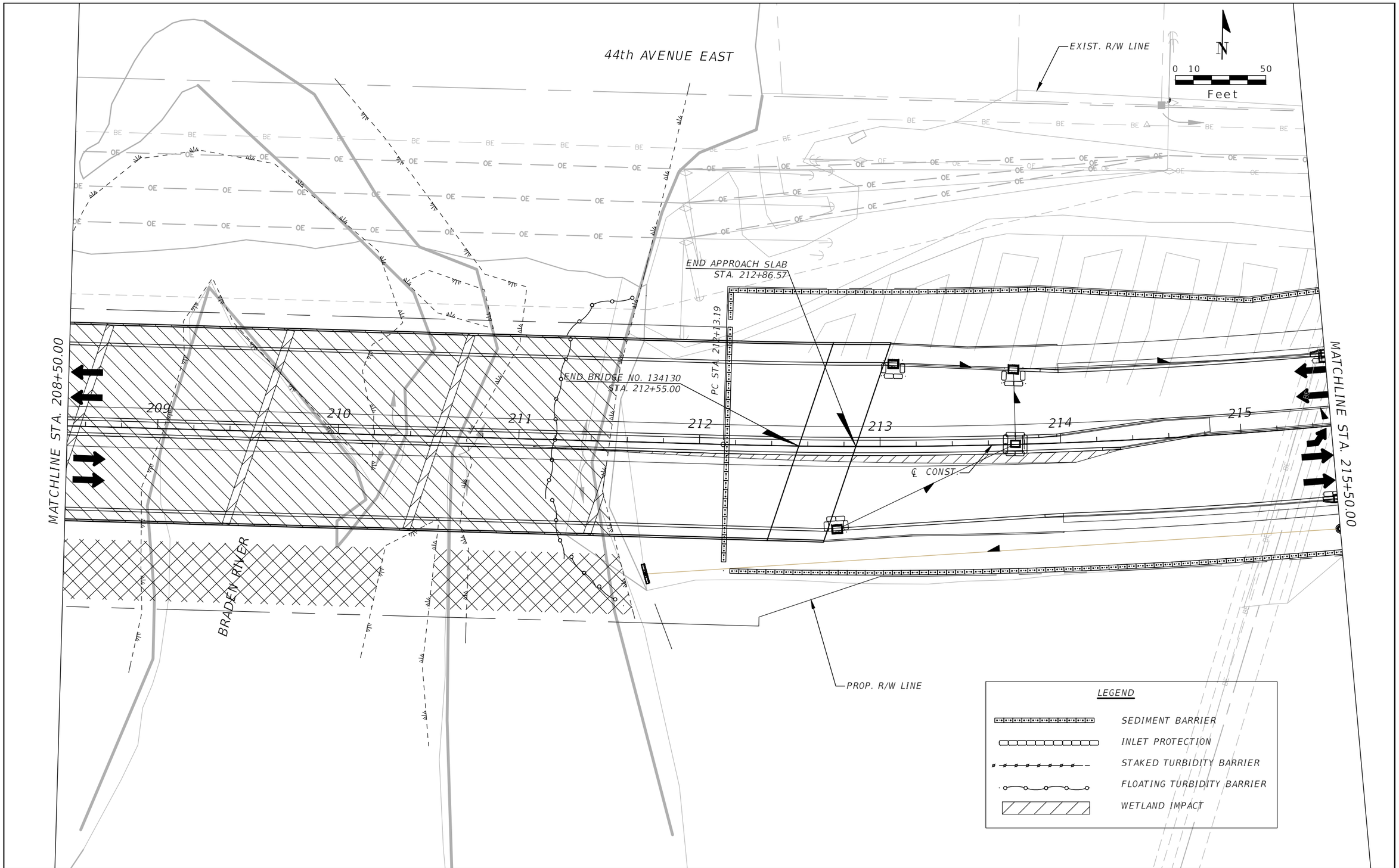
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

EROSION CONTROL PLANS (7)

SHEET NO. 274

Mitch Johnson 2/11/2019 4:37:10 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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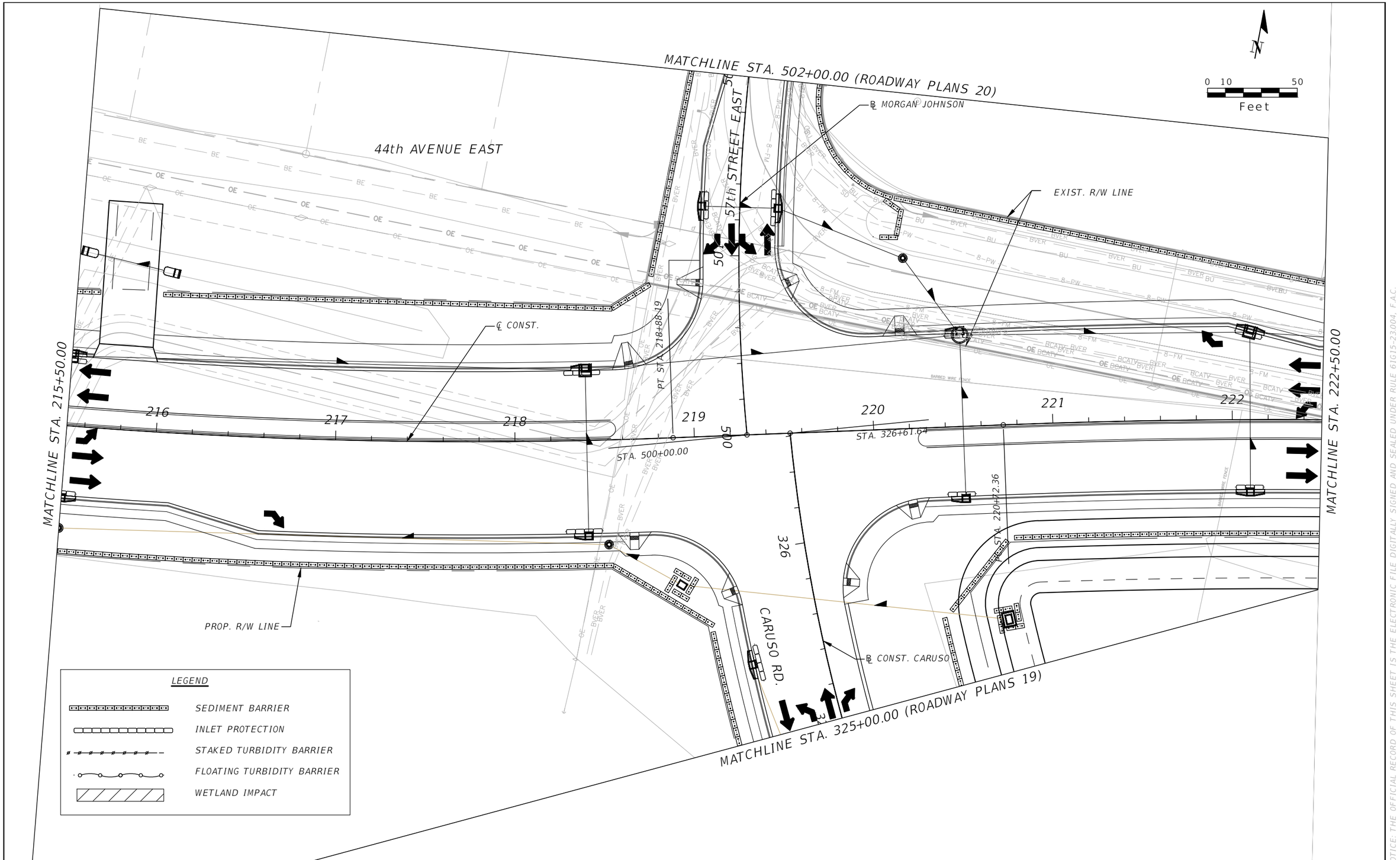
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

EROSION CONTROL PLANS (8)

SHEET NO. 275

Mitch Johnson 2/11/2019 4:37:46 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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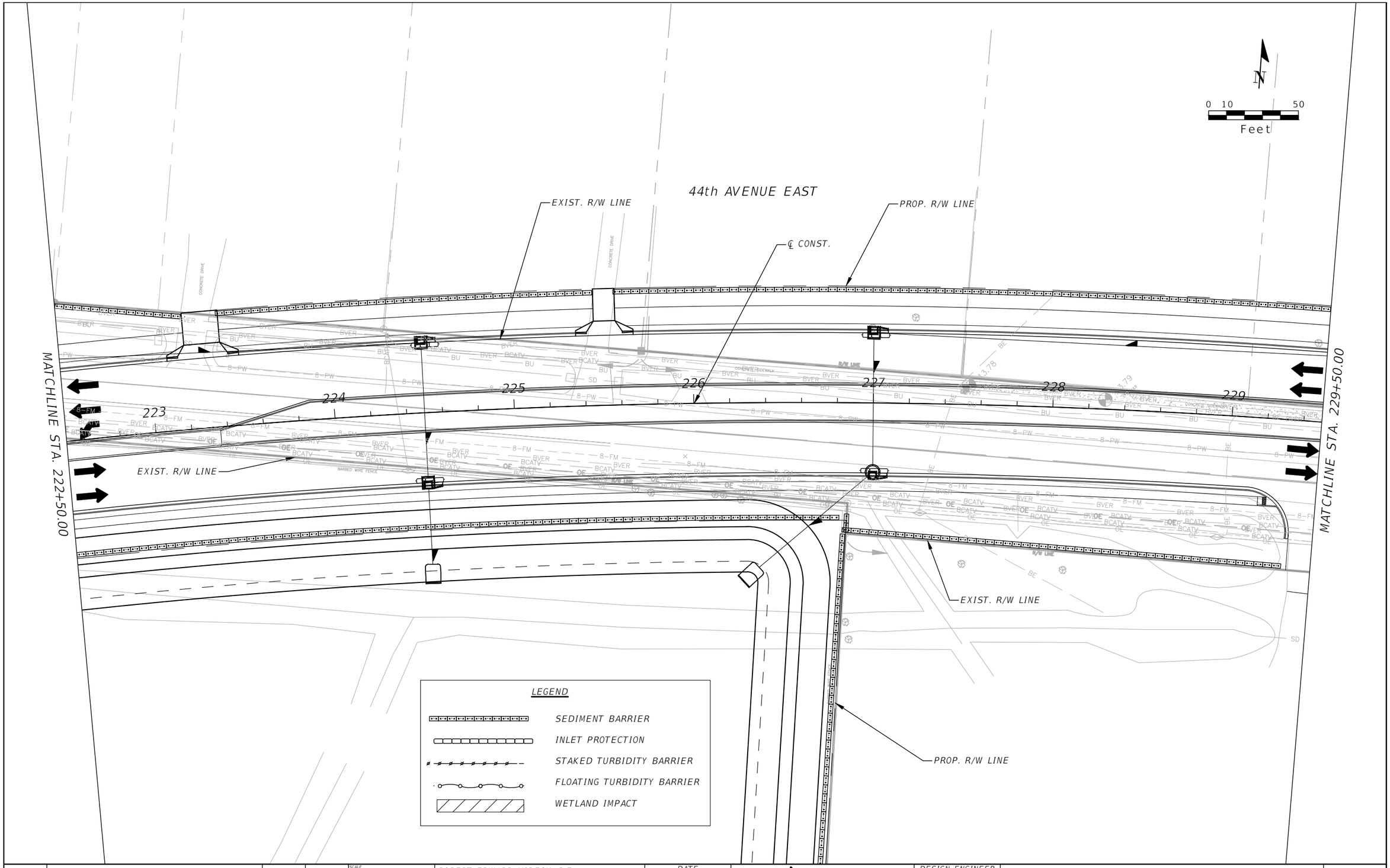
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EROSION CONTROL PLANS (9)

SHEET NO.: 276

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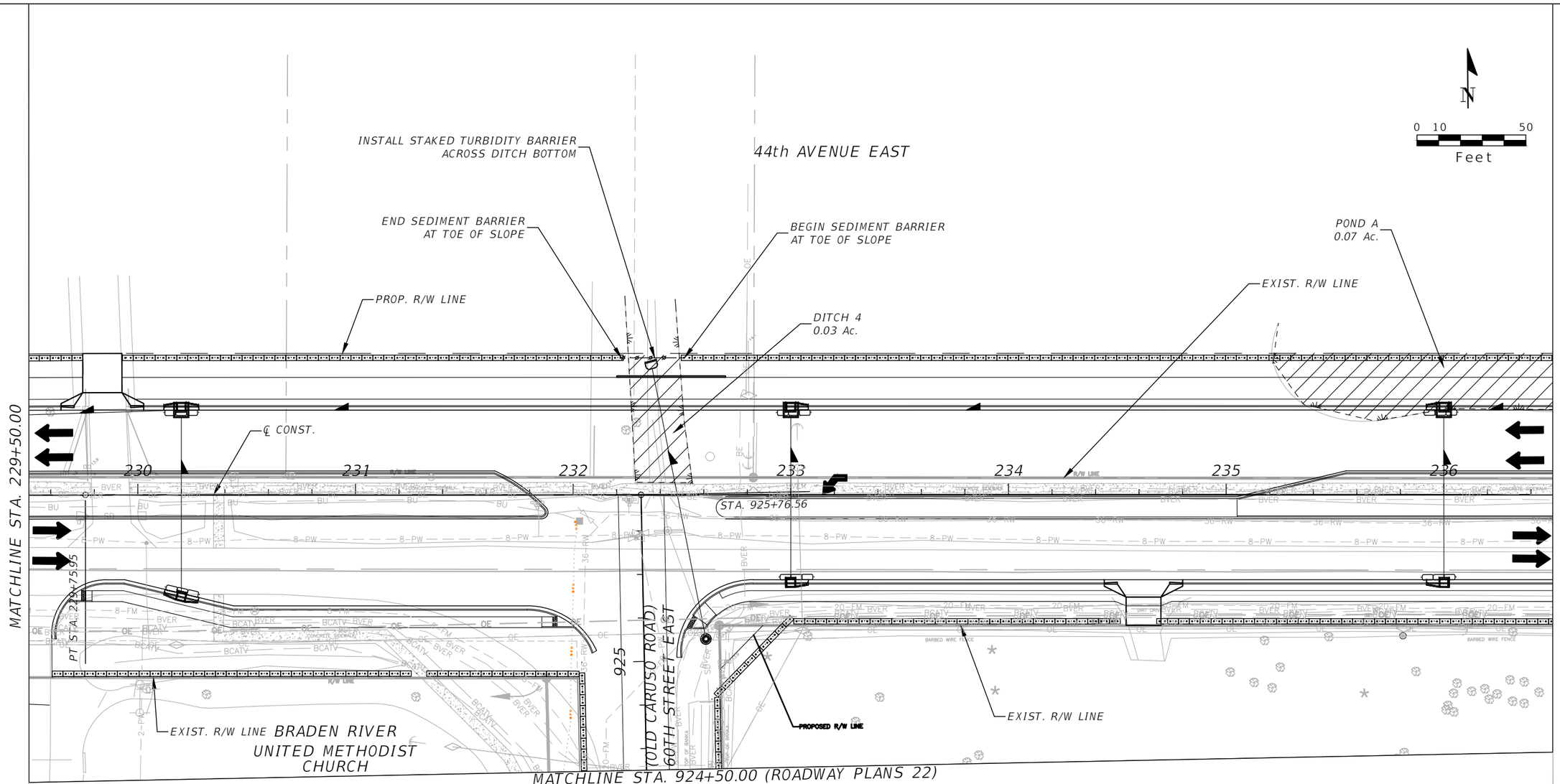
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (10)

SHEET NO.: 277

Mitch Johnson 2/11/2019 4:38:45 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER
- WETLAND IMPACT

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

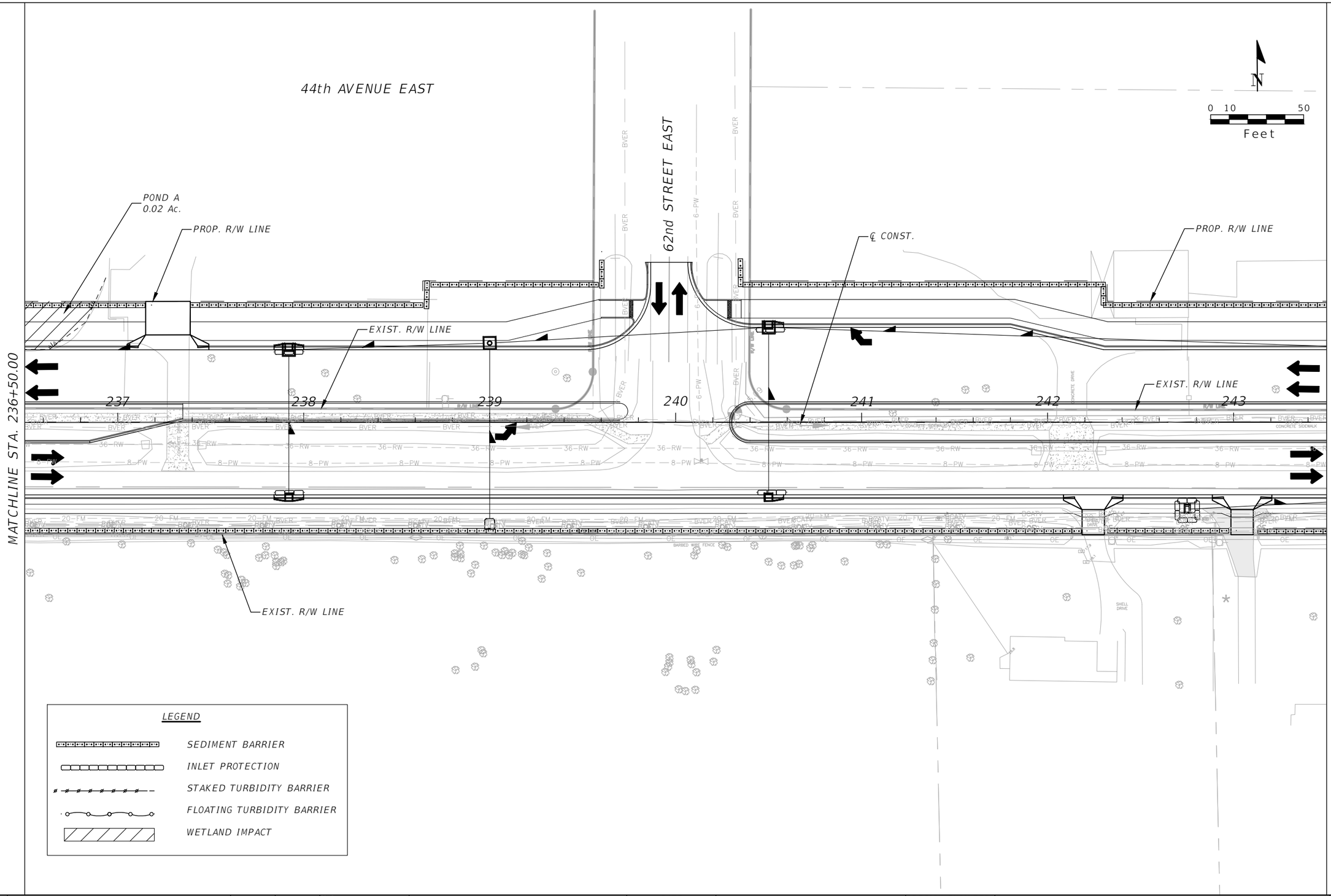
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (11)

SHEET NO.: 278

Mitch Johnson 2/11/2019 4:39:21 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg

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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

EROSION CONTROL PLANS (12)

SHEET NO. 279

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LEGEND

SEDIMENT BARRIER

INLET PROTECTION

STAKED TURBIDITY BARRIER

FLOATING TURBIDITY BARRIER

WETLAND IMPACT

44th AVENUE EAST

N

0 10 50

Feet

PROP. R/W LINE

℄ CONST.

DITCH 3
0.04 Ac.

EXIST. R/W LINE

244 245 246 247 248 249 250

MATCHLINE STA. 243+50.00

MATCHLINE STA. 250+50.00

EXIST. R/W LINE

EXIST. R/W LINE

No.	REVISIONS	DATE	BY

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DESIGN ENGINEER
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FL. LICENSE NO. 67495

EROSION CONTROL PLANS (13)

SHEET NO. 280

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LEGEND

SEDIMENT BARRIER

INLET PROTECTION

STAKED TURBIDITY BARRIER

FLOATING TURBIDITY BARRIER

WETLAND IMPACT

44th AVENUE EAST

65th STREET EAST

EXIST. R/W LINE

PROP. R/W LINE

℄ CONST.

EXIST. R/W LINE

PROP. R/W LINE

EXIST. R/W LINE

EXIST. R/W LINE

MATCHLINE STA. 250+50.00

MATCHLINE STA. 257+50.00

N

0 10 50

Feet

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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

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PROJECT NO.: 6086960

Manatee County FLORIDA

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1022 26th Avenue East, Bradenton, FL 34208

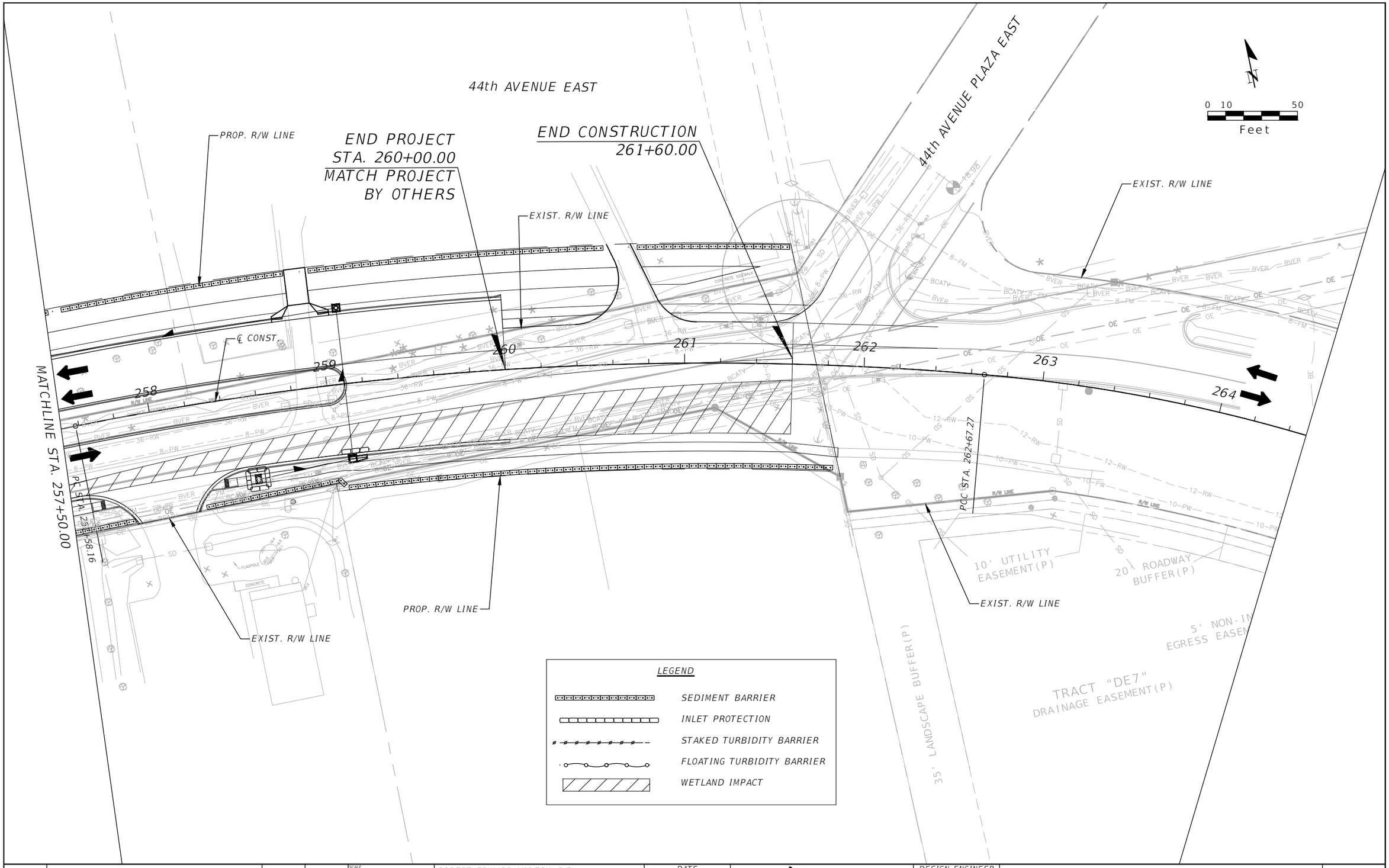
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (14)

SHEET NO.: 281

Mitch Johnson 2/11/2019 4:41:07 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD01_ESC.dwg



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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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Manatee County FLORIDA
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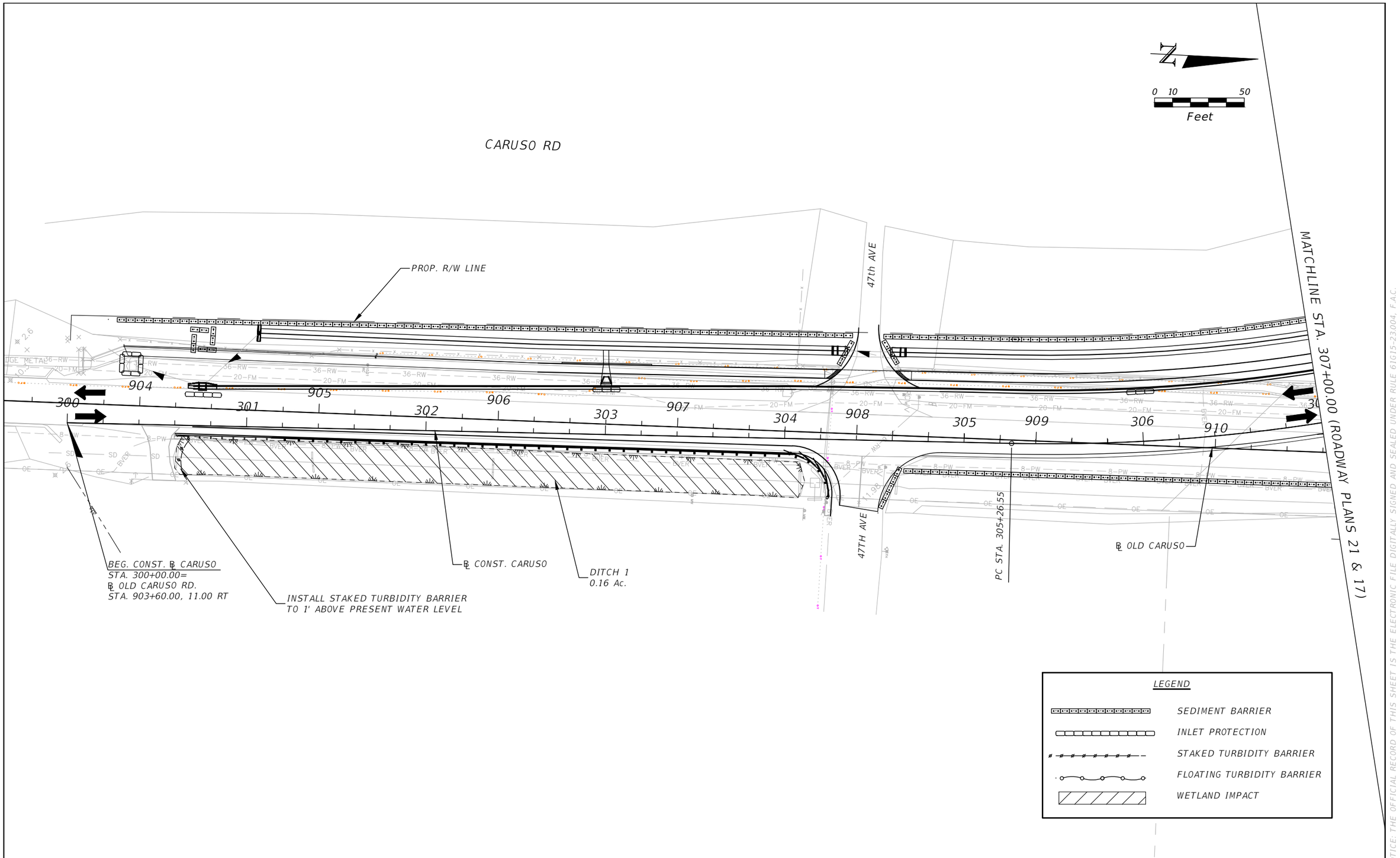
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (15)

SHEET NO.: 282

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (16)

SHEET NO.: 283

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LEGEND

SEDIMENT BARRIER

INLET PROTECTION

STAKED TURBIDITY BARRIER

FLOATING TURBIDITY BARRIER

WETLAND IMPACT

0 10 50

Feet

CARUSO RD

MATCHLINE STA. 307+00.00

MATCHLINE STA. 314+00.00

PROP. R/W LINE

℄ CONST. CARUSO

BEGIN CONSTRUCTION DITCH EL. 17.50

BEGIN ℄ CARUSO RD RAMP STA. 413+94.74 = ℄ CONST. CARUSO STA. 311+56.27'

STA. 413+94.74

℄ OLD CARUSO

CARUSO RD RAMP

PC STA. 414+89.22

℄ CARUSO RD RAMP

PROP. R/W LINE

308 309 310 311 312 313 912 913 914 915 414 415 416

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P.E. NO. 67495
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TAMPA, FL 33634
(813) 749-0823
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PROJECT NO.: 6086960

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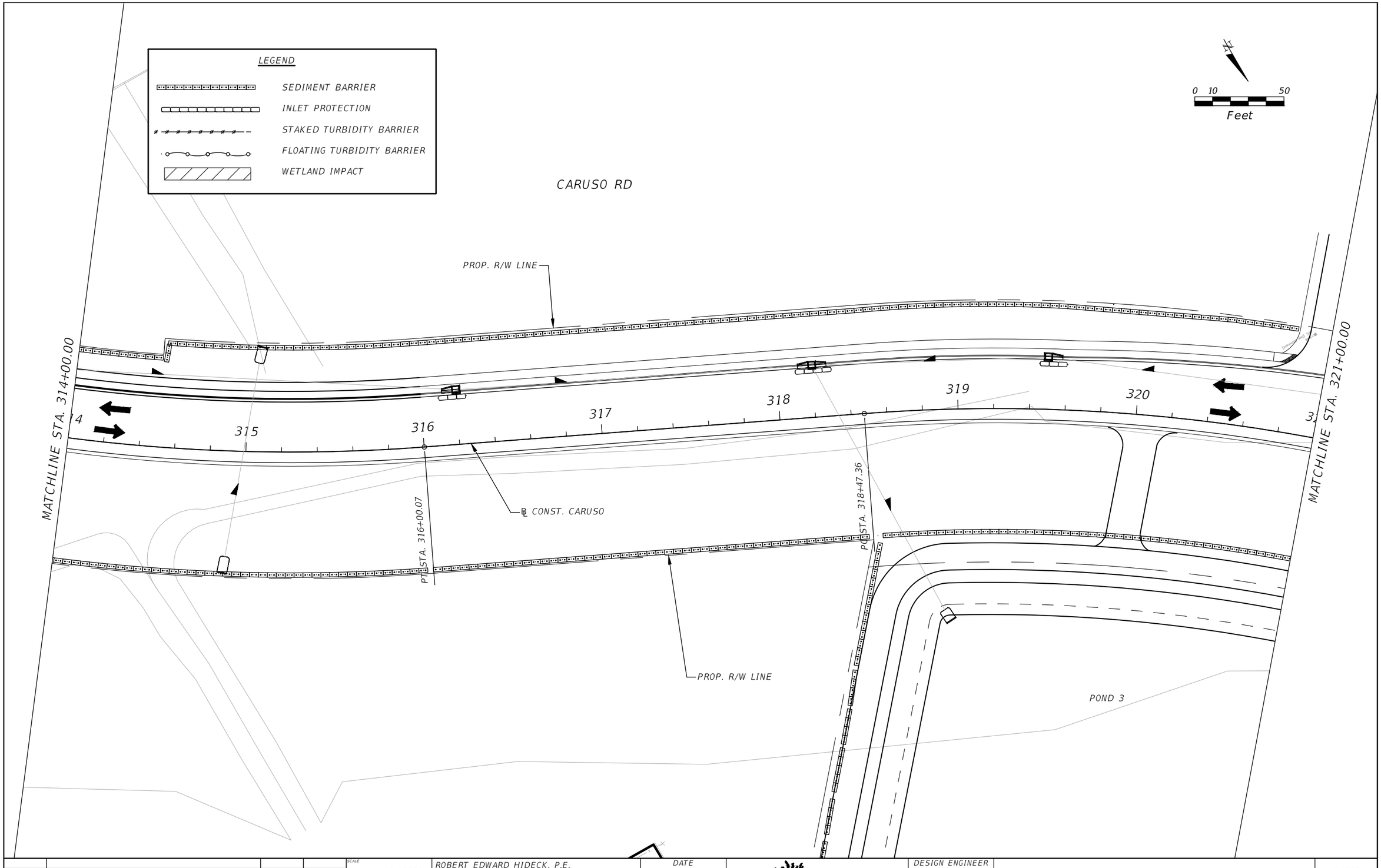
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (17)

SHEET NO.: 284

Mitch Johnson 6/19/2019 4:19:57 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD02_ESC.dwg



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5110 EISENHOWER BOULEVARD, SUITE 310
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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

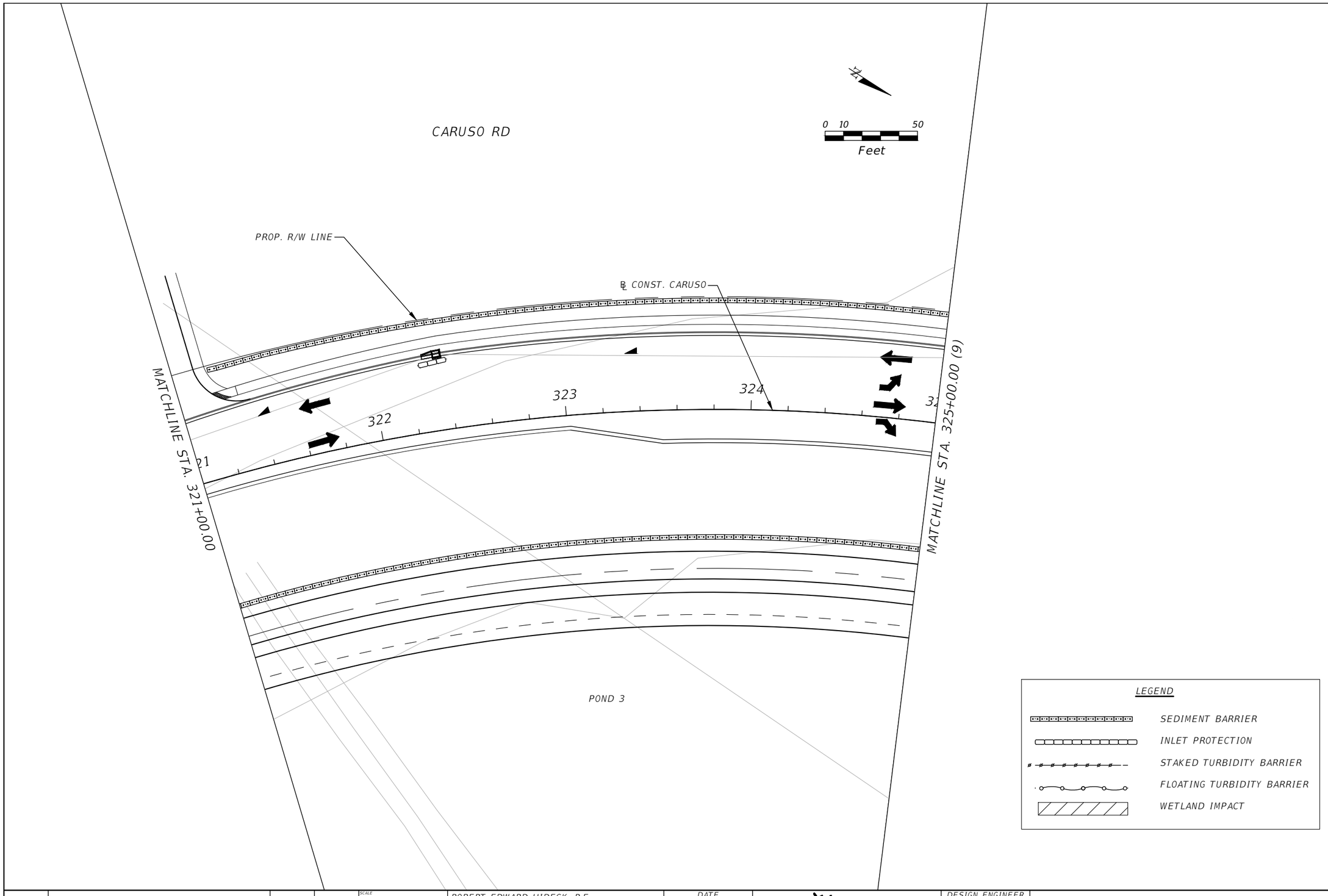
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (18)

SHEET NO.: 285

Mitch Johnson 2/11/2019 4:47:34 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD02_ESC.dwg

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

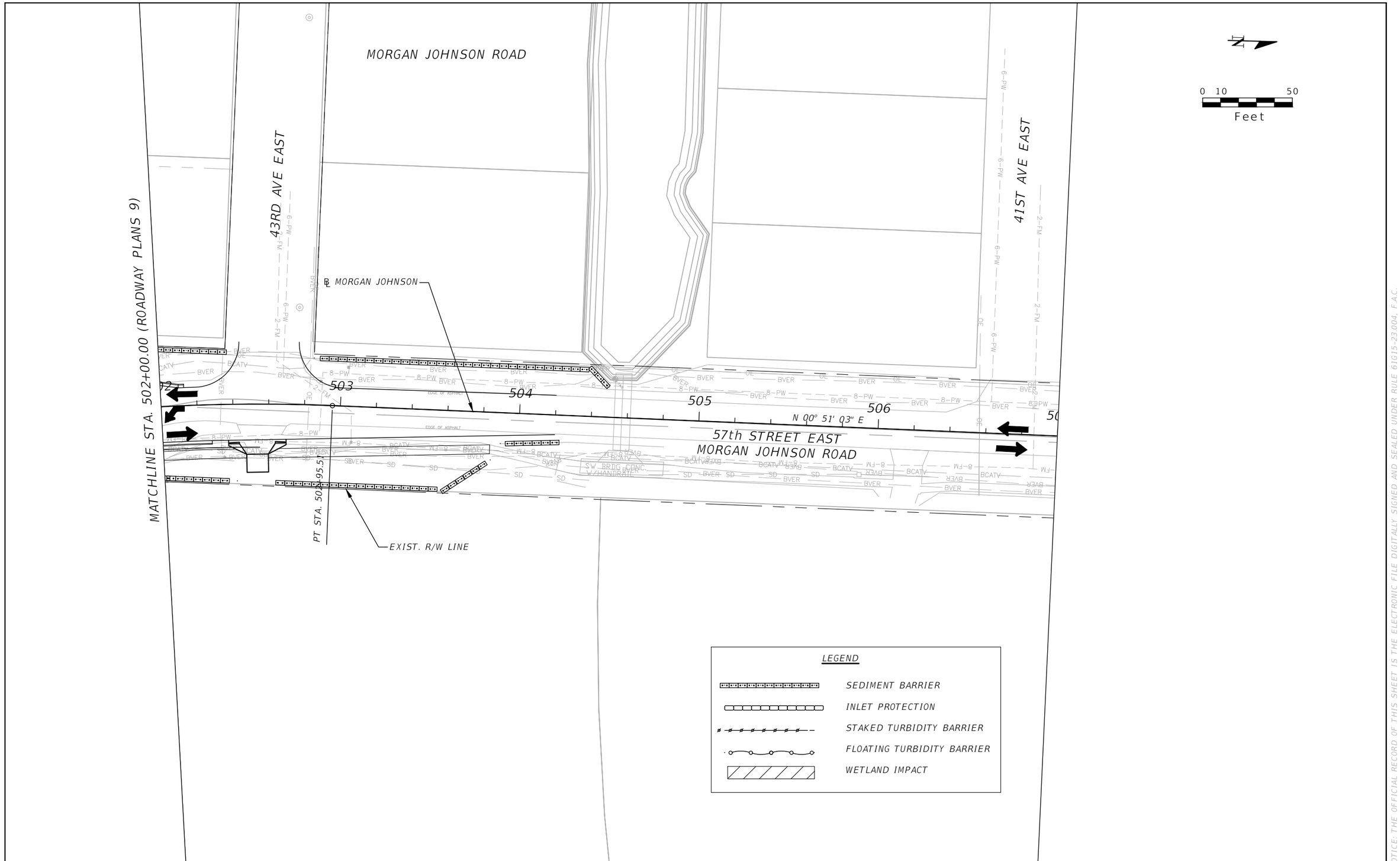
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

EROSION CONTROL PLANS (19)

SHEET NO. 286

Mitch Johnson 2/11/2019 4:48:12 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD02_ESC.dwg

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DRAWN BY
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (20)

SHEET NO.: 287

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CARUSO RD

BEGIN CONSTRUCTION DITCH EL. 11.50

STH. 45

MATCHLINE STA. 307+00.00 (ROADWAY PLANS 16)

MATCHLINE STA. 917+50.00 (ROADWAY PLANS 22)

45TH AVE DR. EAST

SC STA. 414+89.22

0 10 50
Feet

N

307 308 309 310 311 312 313 314 315 316 317 414 415 416 417

36-RW 20-FM 8-PW BVER OE

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER
- WETLAND IMPACT

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No.	REVISIONS	DATE	BY

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EROSION CONTROL PLANS (21)

SHEET NO. 288

Mitch Johnson 2/11/2019 4:52:55 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\PLANRD03_ESC.dwg

MATCHLINE STA. 917+50.00 (21)

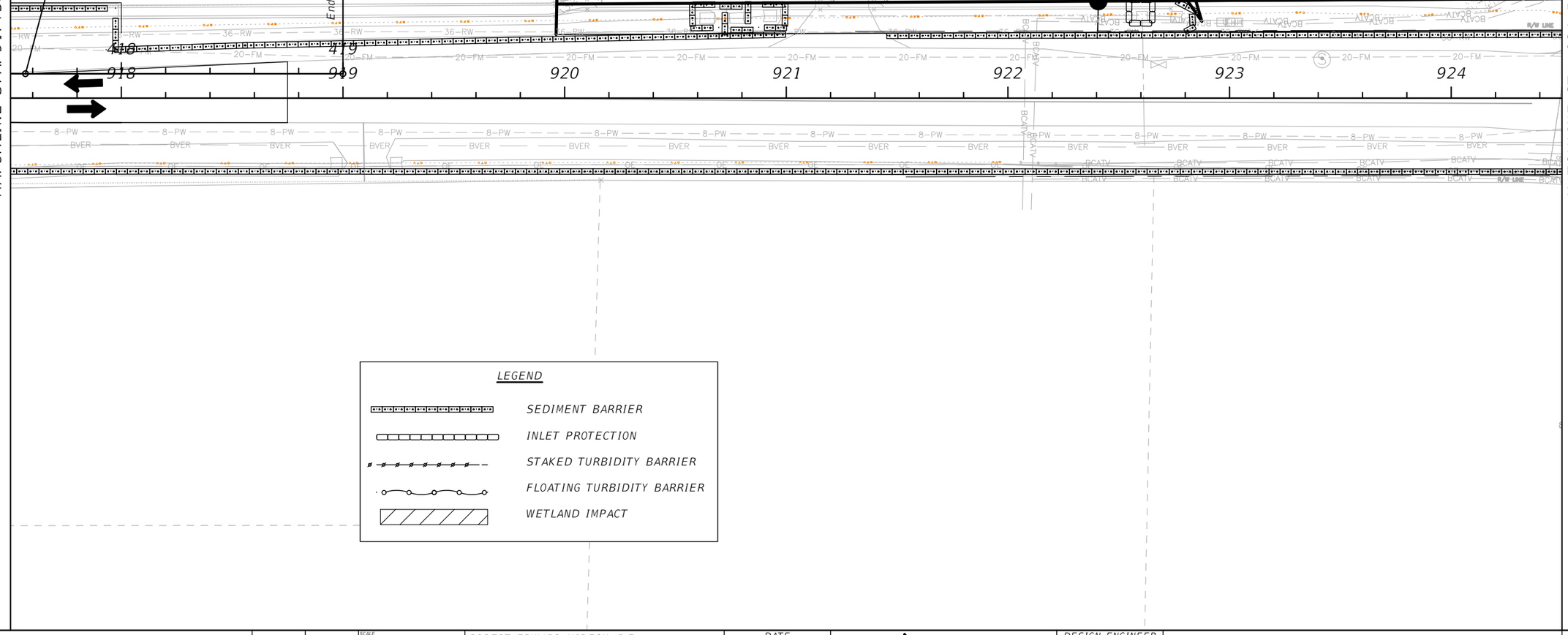
MATCHLINE STA. 924+50.00 (ROADWAY PLANS 11)

PT STA. 417+56.76

End STA. 419+00.00

(OLD CARUSO RD)
60TH STREET EAST

0 10 50
Feet



LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER
- WETLAND IMPACT

No.	REVISIONS	DATE	BY

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DESIGNED BY:
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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CERTIFICATE OF AUTHORIZATION: 29741

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Manatee County FLORIDA
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
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FL. LICENSE NO. 67495

EROSION CONTROL PLANS (22)

SHEET NO. 289

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STA. 326+01.64

PT STA. 329+75.35

1" = 80'

N

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- STAKED TURBIDITY BARRIER
- FLOATING TURBIDITY BARRIER
- WETLAND IMPACT

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
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Manatee County FLORIDA

PUBLIC WORKS DEPARTMENT
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1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.

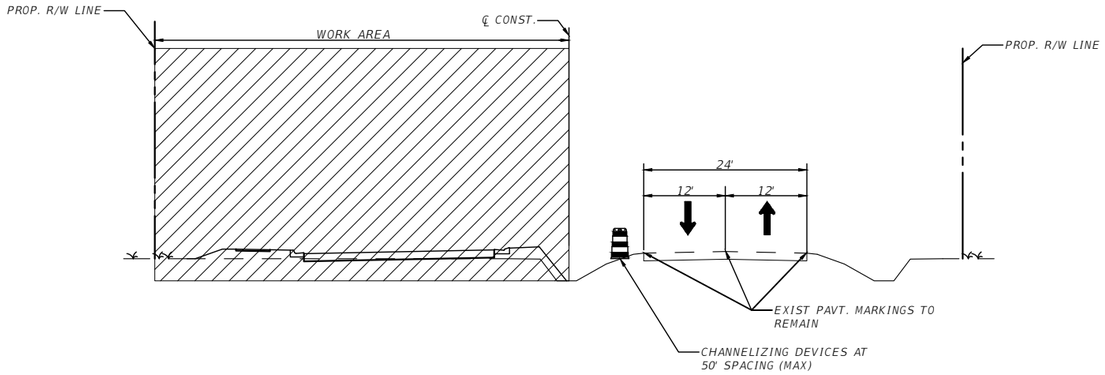
FL. LICENSE NO.: 67495

EROSION CONTROL PLANS (23)

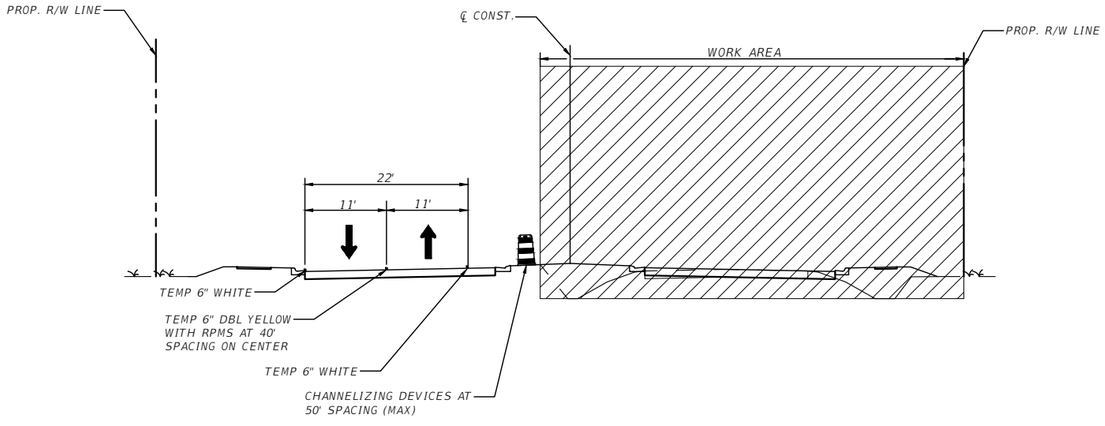
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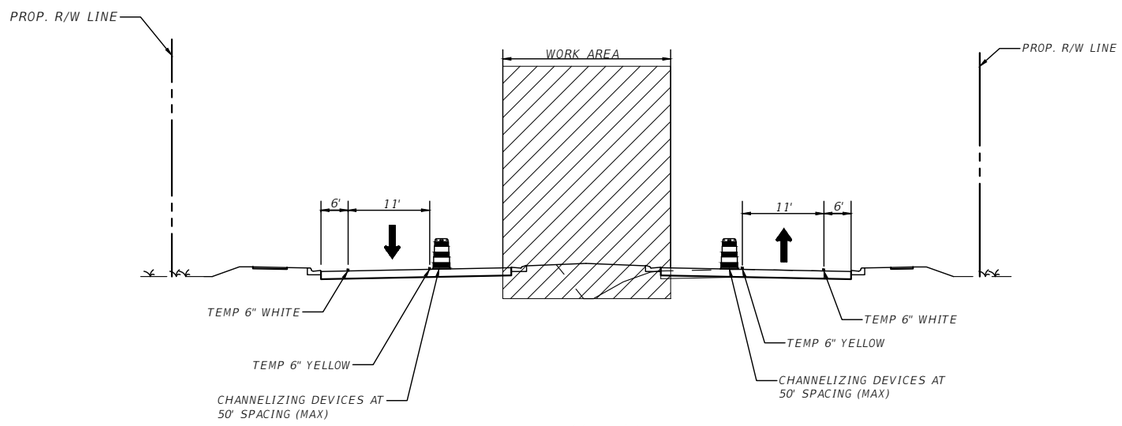
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44TH AVE
PHASE I
STA. 166+50.00 TO STA. 188+00.00
STA. 226+00.00 TO STA. 261+40.00



44TH AVE
PHASE II – STAGE 1
STA. 166+50.00 TO STA. 192+00.00
STA. 220+00.00 TO STA. 261+40.00



44TH AVE
PHASE II – STAGE 2
STA. 166+50.00 TO STA. 192+00.00
STA. 220+00.00 TO STA. 261+40.00

No.	REVISIONS	DATE	BY

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DATE

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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

TRAFFIC CONTROL PLAN TYPICAL SECTION

SHEET NO.
291

Mitch Johnson 2/7/2019 1:32:38 PM J:\PROJECTS - CADD\Manatee County\60869600000\roadway\TCDTRD01.dwg

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TRAFFIC CONTROL PHASING NOTES

THE SEGMENT OF 44TH AVENUE EAST FROM STA. 193+00 TO STA. 220+00 AND THE CARUSO ROAD REALIGNMENT IS CURRENTLY UNDEVELOPED AND CAN BE BUILT WITHOUT ANY DISRUPTION TO EXISTING TRAFFIC PATTERNS. SIDE STREET WORK ZONE SIGNAGE AND BARRICADES WILL BE INSTALLED, BUT TRAFFIC WILL NOT BE ALLOWED ON THESE NEW ALIGNMENTS UNTIL THE PROJECT IS COMPLETE. CONTRACTOR SHALL MAINTAIN OWNER'S ACCESS TO PARCEL WEST OF CARUSO AT ALL TIMES. NEW ACCESS WILL BE FROM CARUSO (STA. 321+00 AND 311+45). EXISTING ACCESS IS ALONG MORGAN JOHNSON RD. (APPROXIMATE 44TH AVE. STA. 219+00).

THE SEGMENT OF 44TH AVENUE EAST FROM STA. 166+50 TO STA. 193+00 AND FROM STA. 220+00 TO 261+40 HAS EXISTING TRAFFIC AND PROVIDES ACCESS TO ADJACENT PROPERTIES AND SIDE STREETS. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

LOCAL TRAFFIC SHALL HAVE ACCESS ALONG 44TH AVENUE EAST, CARUSO RD AND MORGAN JOHNSON ROAD AT ALL TIMES.

THE INTENT OF PHASE I IS TO MAINTAIN LOCAL TRAFFIC ON THE EXISTING ROADWAY WHILE CONSTRUCTING NEW WB PAVEMENT AND DRAINAGE FEATURES ON 44TH AVE EAST AND TO CONSTRUCT THE NEW CARUSO ROAD ALIGNMENT.

THE INTENT OF PHASE II IS TO SHIFT LOCAL TRAFFIC TO THE NEWLY CONSTRUCTED WB PAVEMENT FROM PHASE I WHILE RE-CONSTRUCTING NEW EB PAVEMENT AND DRAINAGE FEATURES ON 44TH AVE EAST, AS WELL AS ANY REMAINING PAVEMENT AND SIDE SLOPES.

PHASE I

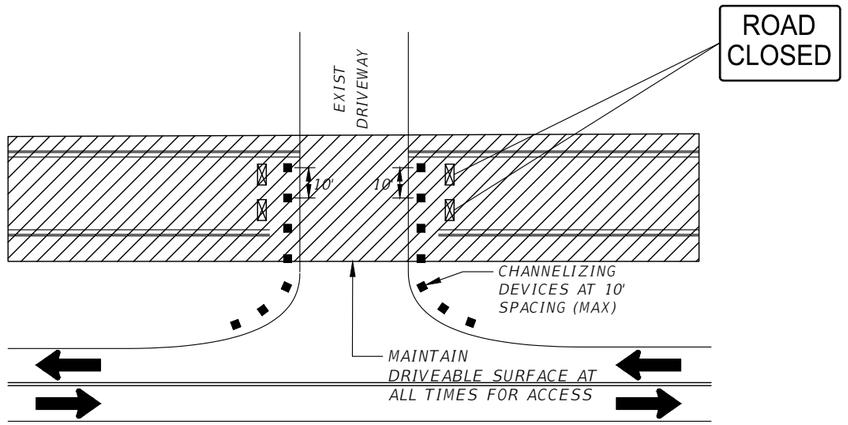
1. PLACE ADVANCED WARNING SIGNS ALONG 44TH AVENUE EAST AND ALL SIDE STREETS.
2. BEGIN ROADWAY AND BRIDGE CONSTRUCTION WEST OF 51ST STREET EAST AND MORGAN JOHNSON RD, INCLUDING CARUSO ROAD. MAINTAIN PARCEL OWNER ACCESS TO PROPERTY WEST OF CARUSO. UPON CONSTRUCTION OF CARUSO RD, CHANNELIZE A 12' TRAVELWAY FOR OWNER TO ACCESS PROPERTY.
3. EAST OF MORGAN JOHNSON RD, CONSTRUCT NEW MULTI-USE PATH. SHIFT PEDESTRIAN TRAFFIC TO NEW PATH AND BEGIN WB ROADWAY CONSTRUCTION.
4. WHILE MAINTAINING TRAFFIC ON EXISTING 44TH AVENUE EAST, UTILIZING INDEX 603 AS NEEDED, CONSTRUCT THE NEW WB LANES, INCLUDING ALL RELATED FEATURES (SIGNING, UTILITIES, DRAINAGE, ETC.). MAINTAIN ALL DRIVEWAY ACCESS AT ALL TIMES. SEE DRIVEWAY OPENING DETAIL.
5. UTILIZING INDEX 605, CONSTRUCT OVERBUILD AND WIDENING AND NEW DRAINAGE CROSSINGS FROM STA. 166+60 TO STA. 171+40.
6. UTILIZING INDICES 602, 603, 606, AND UTILIZING 38TH AVE. EAST AS A DETOUR FOR NB TRAFFIC, CONSTRUCT NEW WATER LINE WIDENING AND MILLING AND RESURFACING ALONG MORGAN JOHNSON RD.
7. CONSTRUCT TEMP PAVT. TRANSITIONS AS SHOWN IN THE DIVERSION DETAILS.
8. CONSTRUCT NEW SIGNAL AT CARUSO RD INTERSECTION, TO REMAIN INOPERABLE UNTIL PHASE II.
9. UTILIZE INDEX 603 TO RECONSTRUCT INTERSECTION OF OLD CARUSO RD. AND 45TH AVE. DR. EAST. CONSTRUCT TEMP. PAVT. TO TIE EXISTING TO PROPOSED TO MAINTAIN TRAFFIC ON OLD CARUSO RD.
10. UTILIZE INDEX 603 AND CREEKWOOD BLVD AS A DETOUR TO RECONSTRUCT CAURSO RD BETWEEN STA. 300+70 AND STA. 307+00. COORDINATE WITH PROPERTY OWNERS AND PROVIDE ACCESS TO DRIVEWAYS AT STA. 307+13 AND 912+36 AT ALL TIMES. THIS WORK SHALL BE COMPLETED AND CARUSO RD OPENED TO THROUGH TRAFFIC AS SOON AS POSSIBLE AFTER THE DETOUR IS IN PLACE, IN THE BEST INTEREST OF TRAFFIC OPERATIONS.

PHASE II –STAGE 1

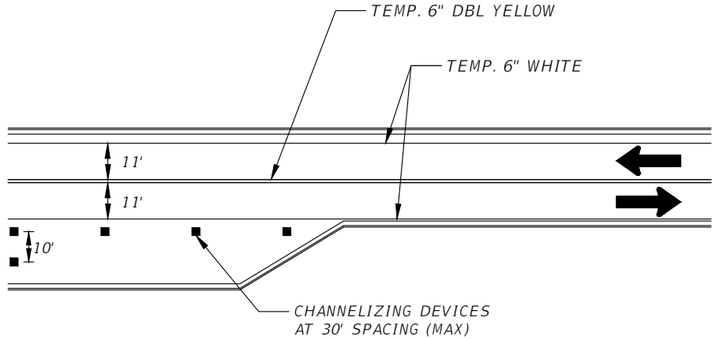
1. PLACE TEMP. STRIPING ON NEWLY CONSTRUCTED WB LANES.
2. SHIFT ALL TRAFFIC TO NEWLY CONSTRUCTED WB LANES, CLOSING WB LEFT TURN LANES USING CHANNELIZING DEVICES. SEE DETAIL ON THIS SHEET.
3. UTILIZING INDEX 603 AS NEEDED, CONSTRUCT THE NEW EB LANES INCLUDING ALL RELATED FEATURES (SIGNING, UTILITIES, DRAINAGE, ETC.). MAINTAIN ALL DRIVEWAY ACCESS AT ALL TIMES. SEE DRIVEWAY OPENING DETAIL.

PHASE II –STAGE 2

1. SHIFT TRAFFIC TO OUTSIDE LANES OF EB AND WB 44TH. PLACE CHANNELIZING DEVICES USING INDEX 613 TO CLOSE INSIDE LANES AND COMPLETE ANY REMAINING MEDIAN WORK.
2. UTILIZING INDEX 613, PLACE FRICTION COURSE, STRIPE LANES TO FINAL PAVEMENT MARKINGS, AND OPEN ALL LANES TO TRAFFIC.
3. REMOVE ALL ADVANCE WARNING SIGNS.



EXIST. DRIVEWAY OPENING DETAIL



TEMP. PHASE II STRIPING DETAIL AT WB LEFT TURN LANES

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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

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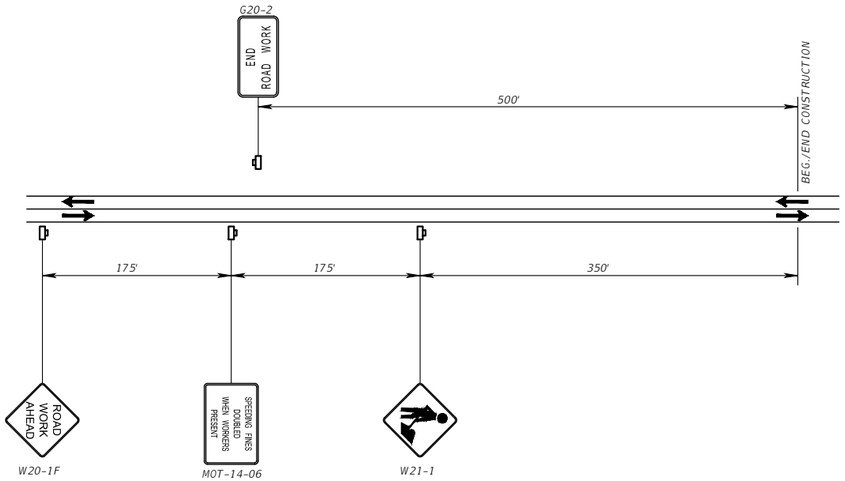
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TRAFFIC CONTROL PLAN PHASING NOTES

SHEET NO.: 292

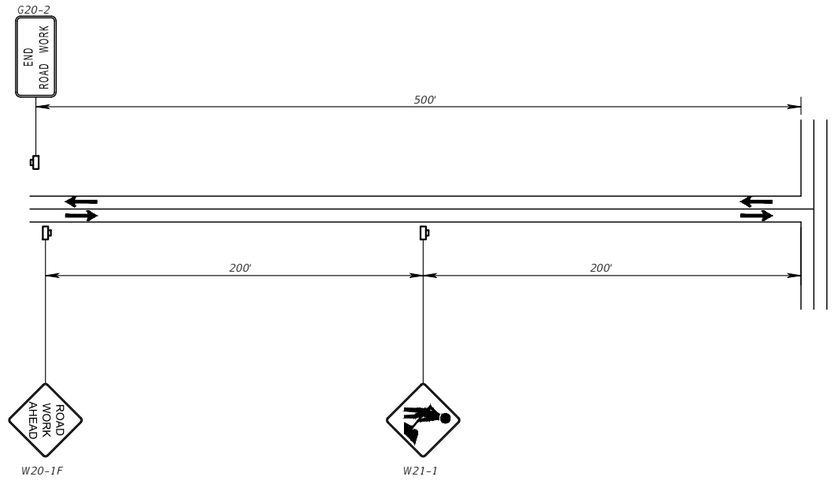
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44TH AVE EAST

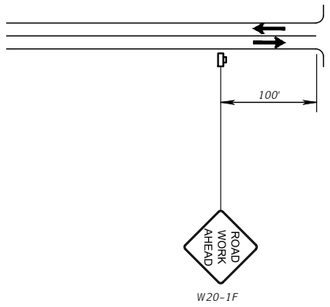
CARUSO RD

MORGAN JOHNSON RD



SIDE STREETS
45TH STREET EAST
51ST STREET EAST
62ND STREET EAST
65TH STREET EAST
44TH AVENUE PLAZA
45TH AVE. DR. EAST
47TH AVE EAST

TYPE III BARRICADES AND ROAD CLOSED SIGNS SHALL BE LOCATED AS NEEDED AT THESE INTERSECTIONS TO ENSURE TRAFFIC DOES NOT ENTER THE WORK AREA.



USEPPA DR.

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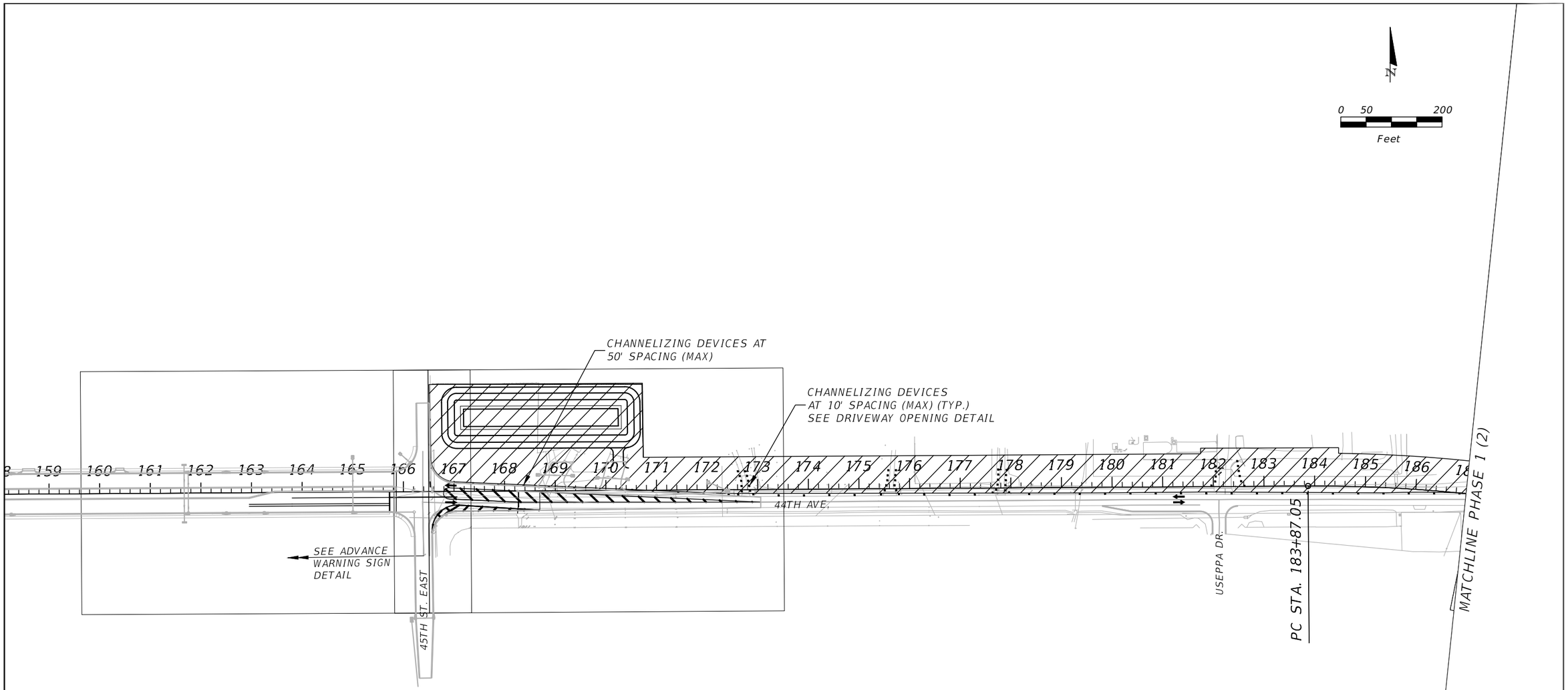
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TRAFFIC CONTROL PLAN ADVANCE WARNING SIGN DETAIL

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LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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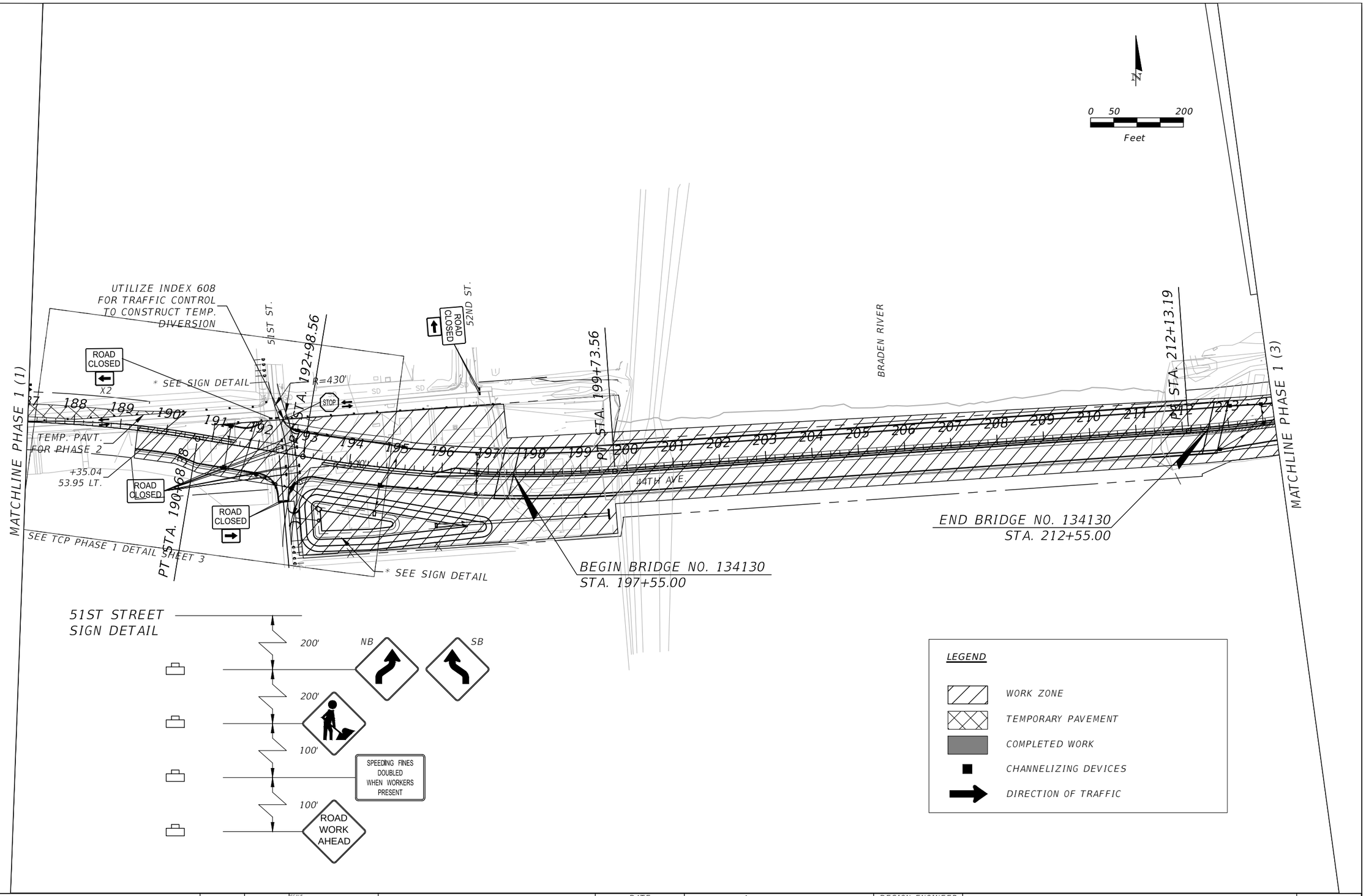
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EDWARD
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TRAFFIC CONTROL PLAN
PHASE 1 (1)

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TAMPA, FL 33634
(813) 749-0823
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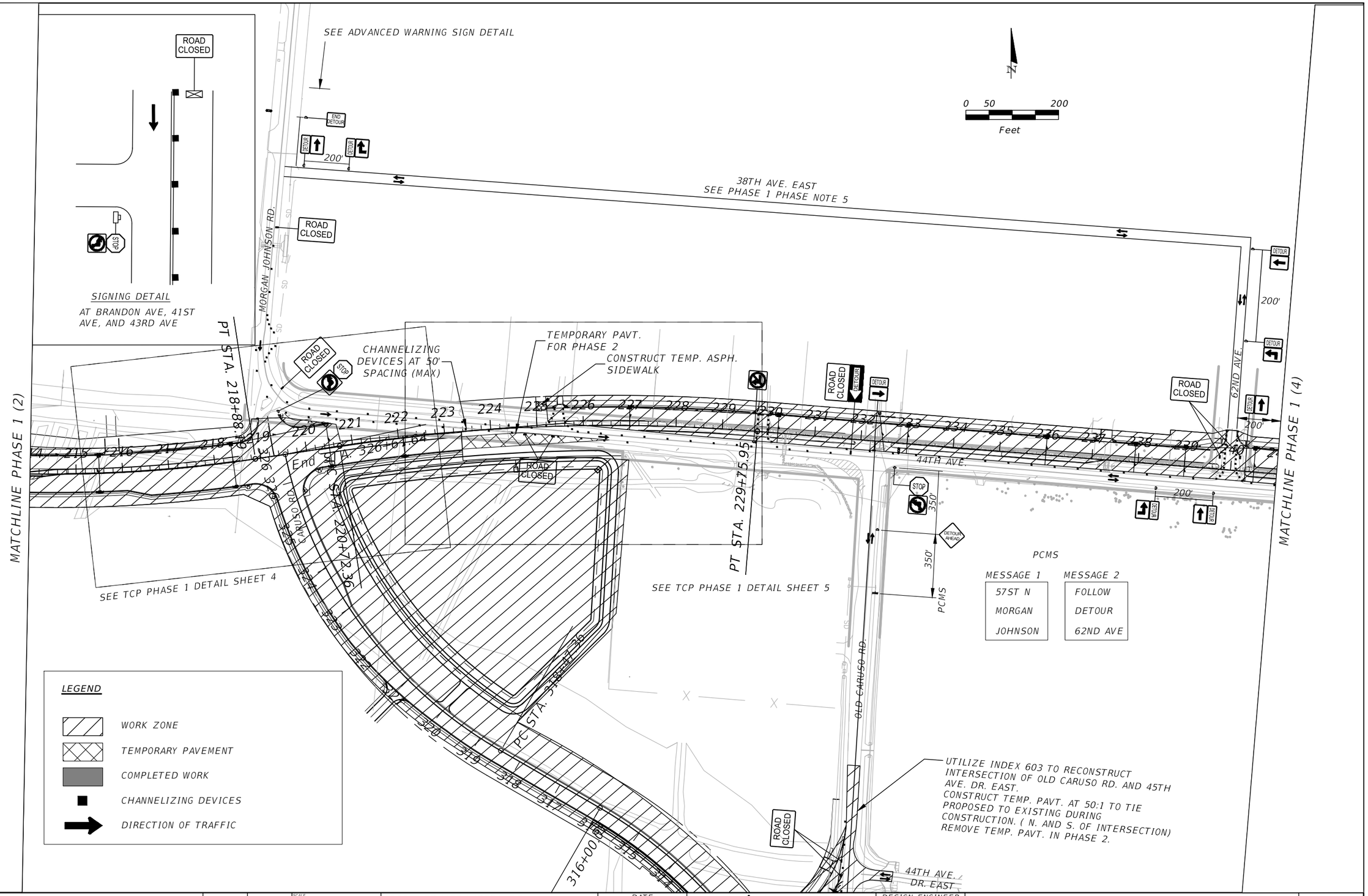
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TRAFFIC CONTROL PLAN PHASE 1 (2)

SHEET NO.: 295

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(813) 749-0823
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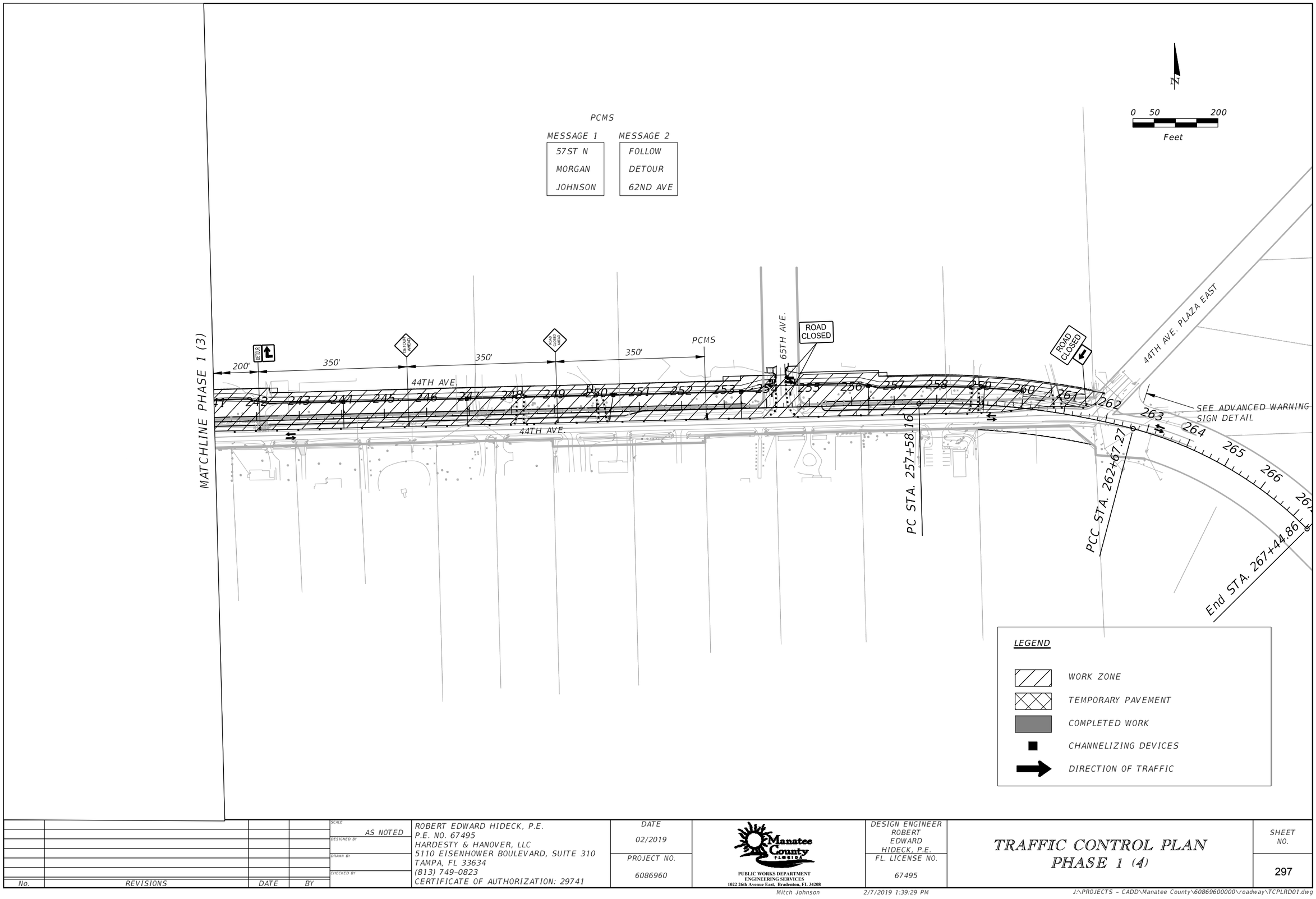
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TRAFFIC CONTROL PLAN PHASE 1 (3)

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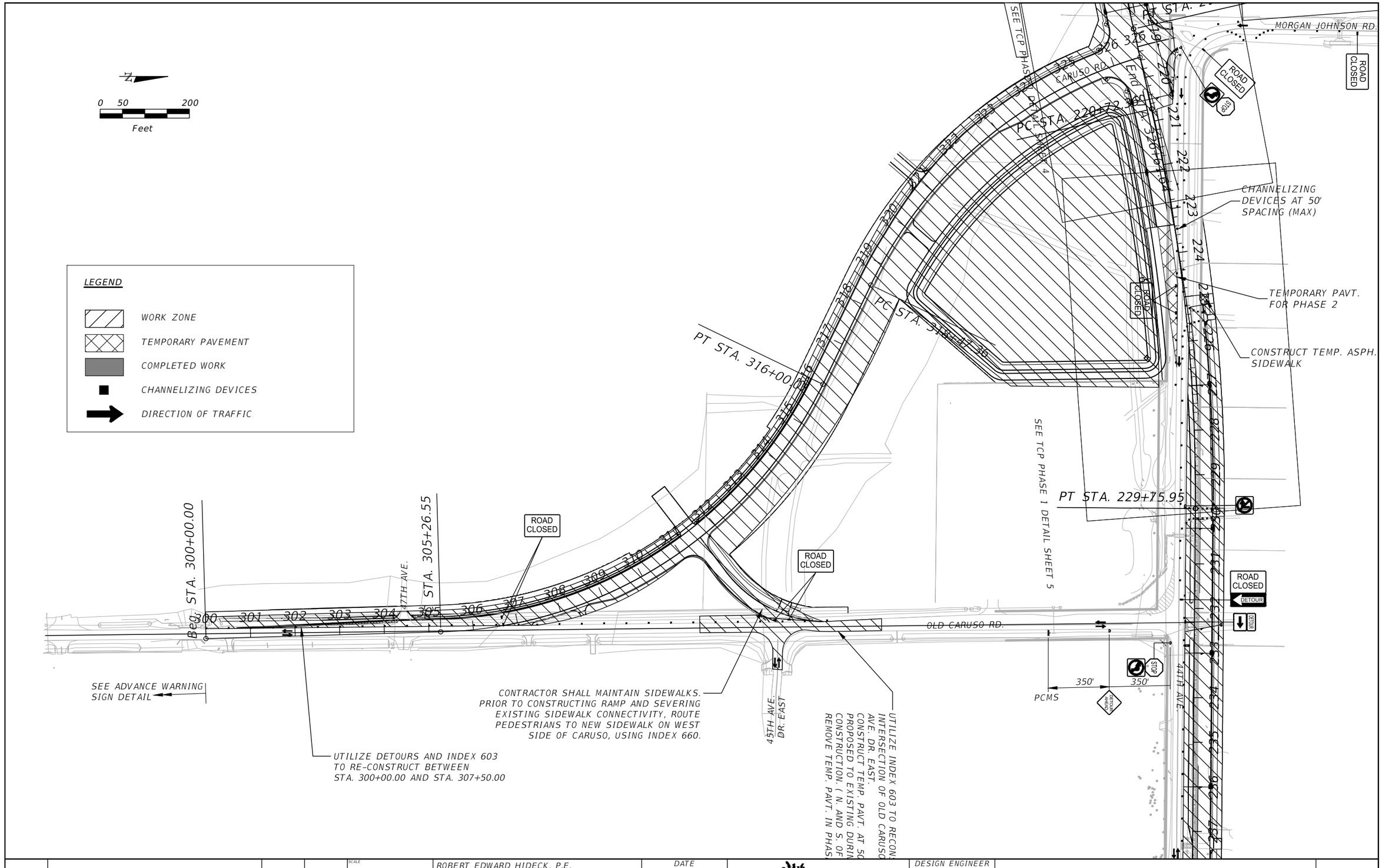
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TRAFFIC CONTROL PLAN PHASE 1 (4)

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(813) 749-0823
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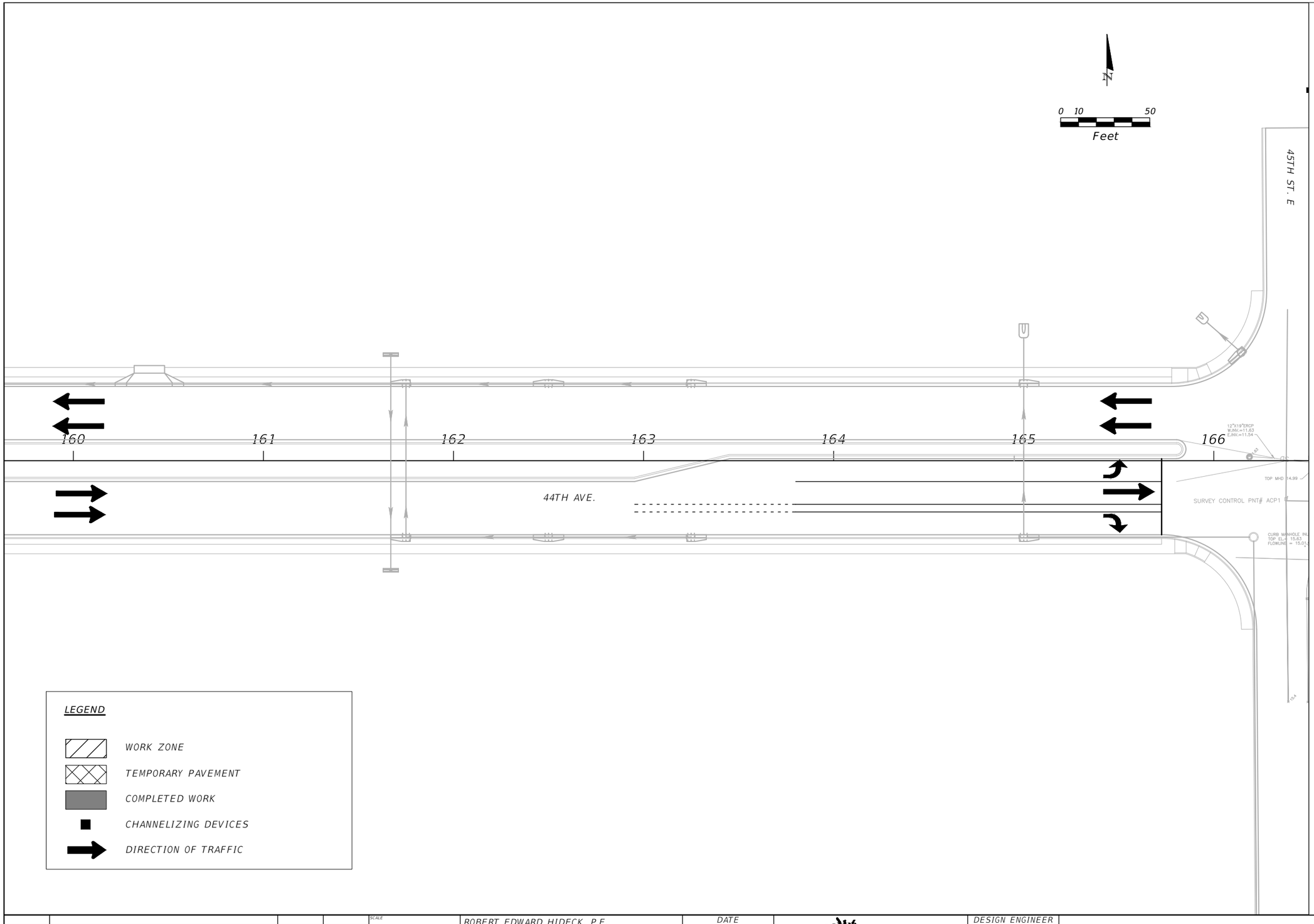
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TRAFFIC CONTROL PLAN PHASE 1 (5)

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TAMPA, FL 33634
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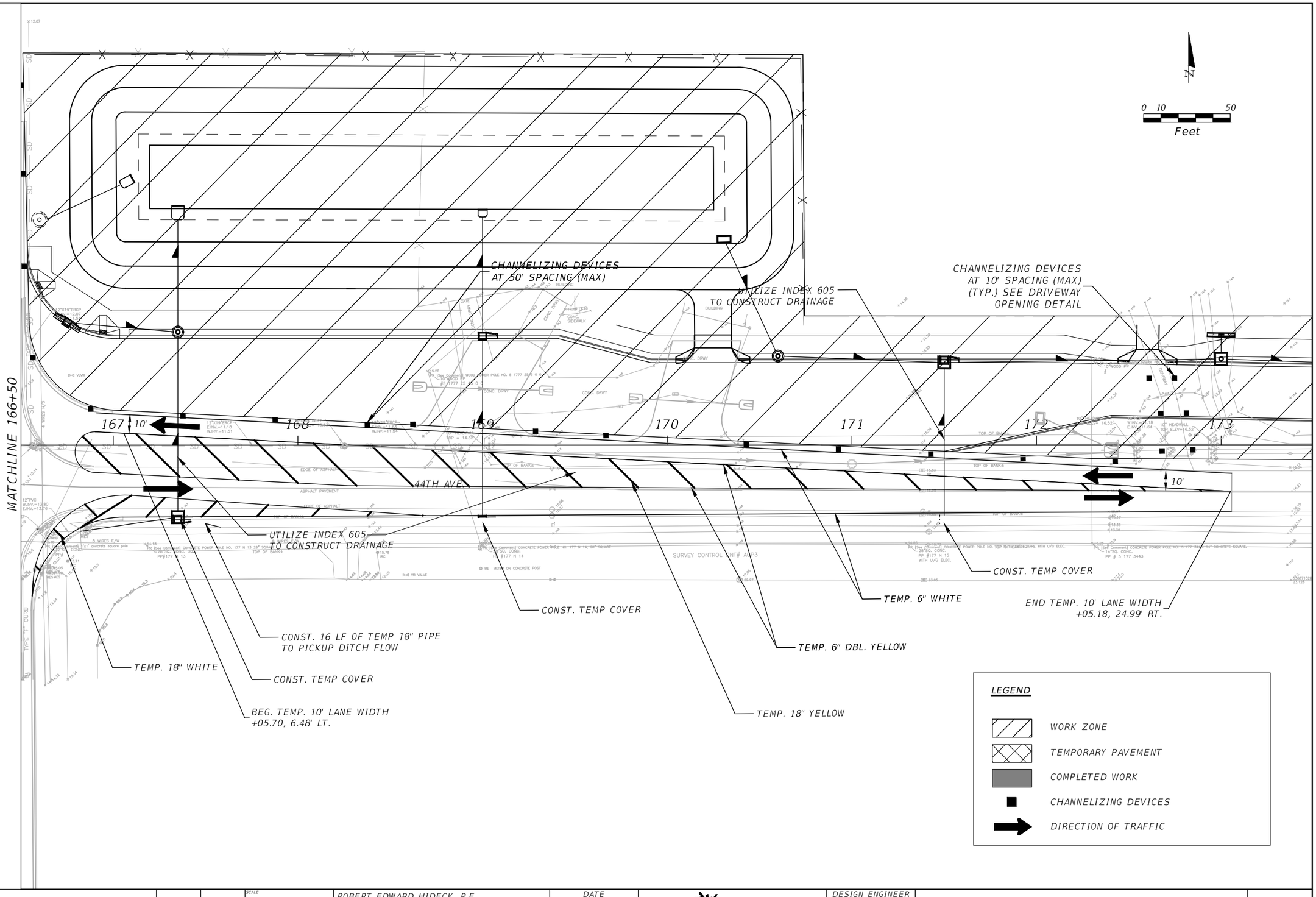
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TRAFFIC CONTROL PLAN 1
DETAIL SHEET 1

SHEET NO.: 299

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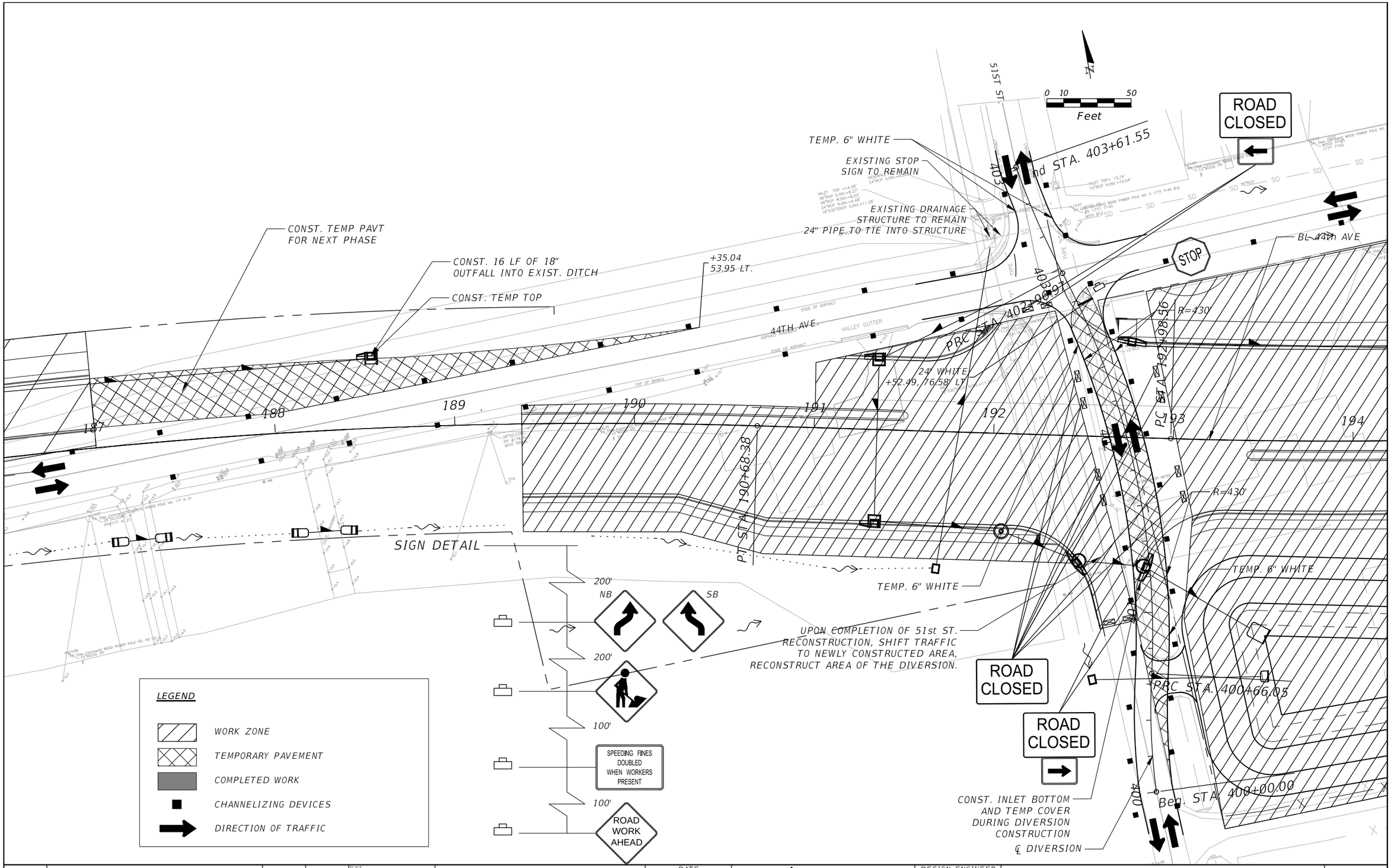
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TRAFFIC CONTROL PLAN 1 DETAIL SHEET 2

SHEET NO.: 300

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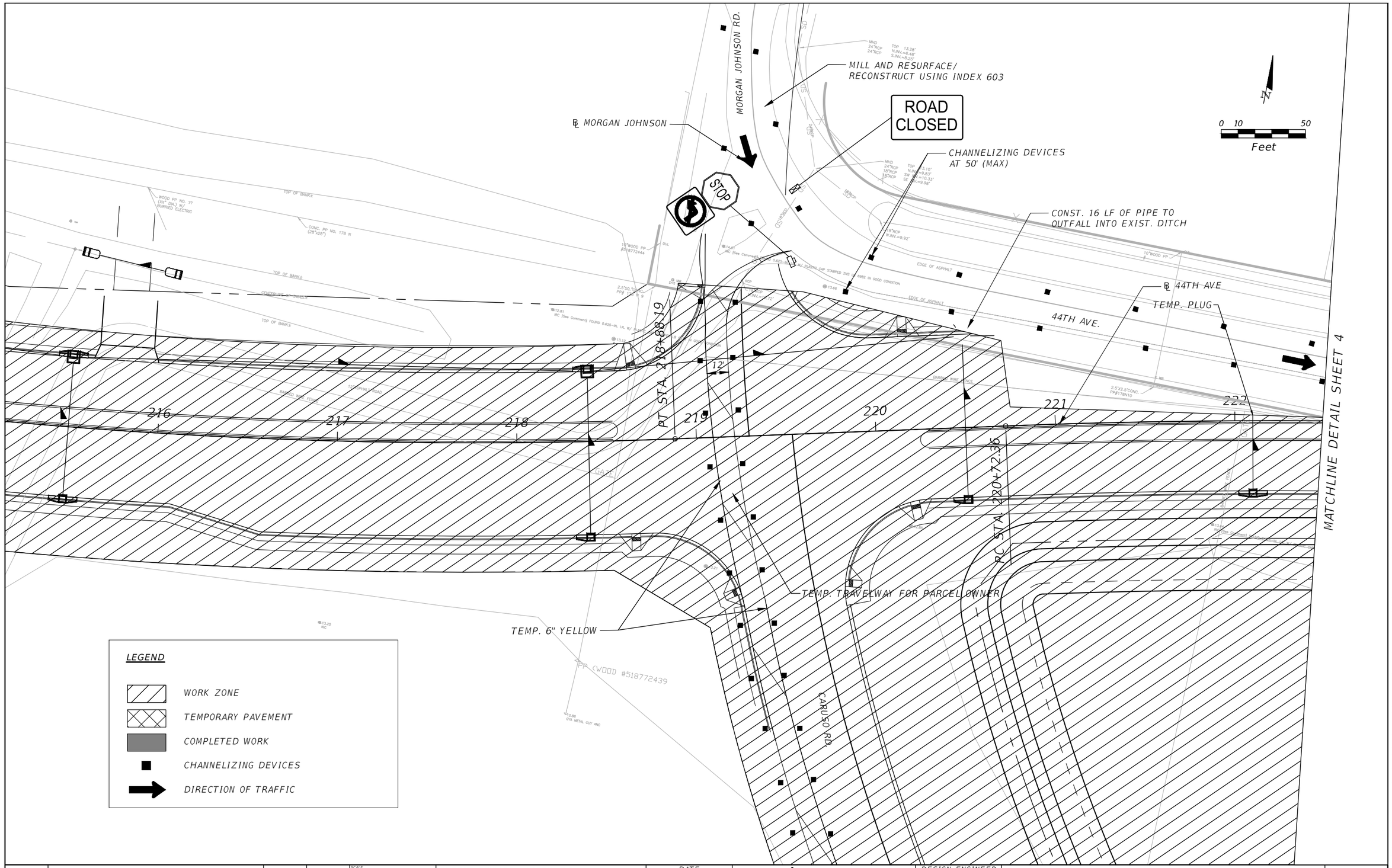
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TRAFFIC CONTROL PLAN 1 DETAIL SHEET 3

SHEET NO.: 301

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TRAFFIC CONTROL PLAN 1
DETAIL SHEET 4

SHEET NO.: 302

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MATCHLINE DETAIL SHEET 4

CONSTRUCT TEMP. ASPH. SIDEWALK

TEMP. 6" WHITE

+00.00 53.96 LT.

+00.00 MATCH EXIST.

TEMPORARY PAVT. FOR PHASE 2

℄ 44TH AVE

223 224 225 226 227 228 229 230

44TH AVE.

ROAD CLOSED

CONSTRUCT PIPE CROSSING USING 320' TAPER LENGTH TO SHIFT TRAFFIC TO OPPOSITE LANE, TEMP. CAP

PT STA 229+25.95

N

0 10 50

Feet

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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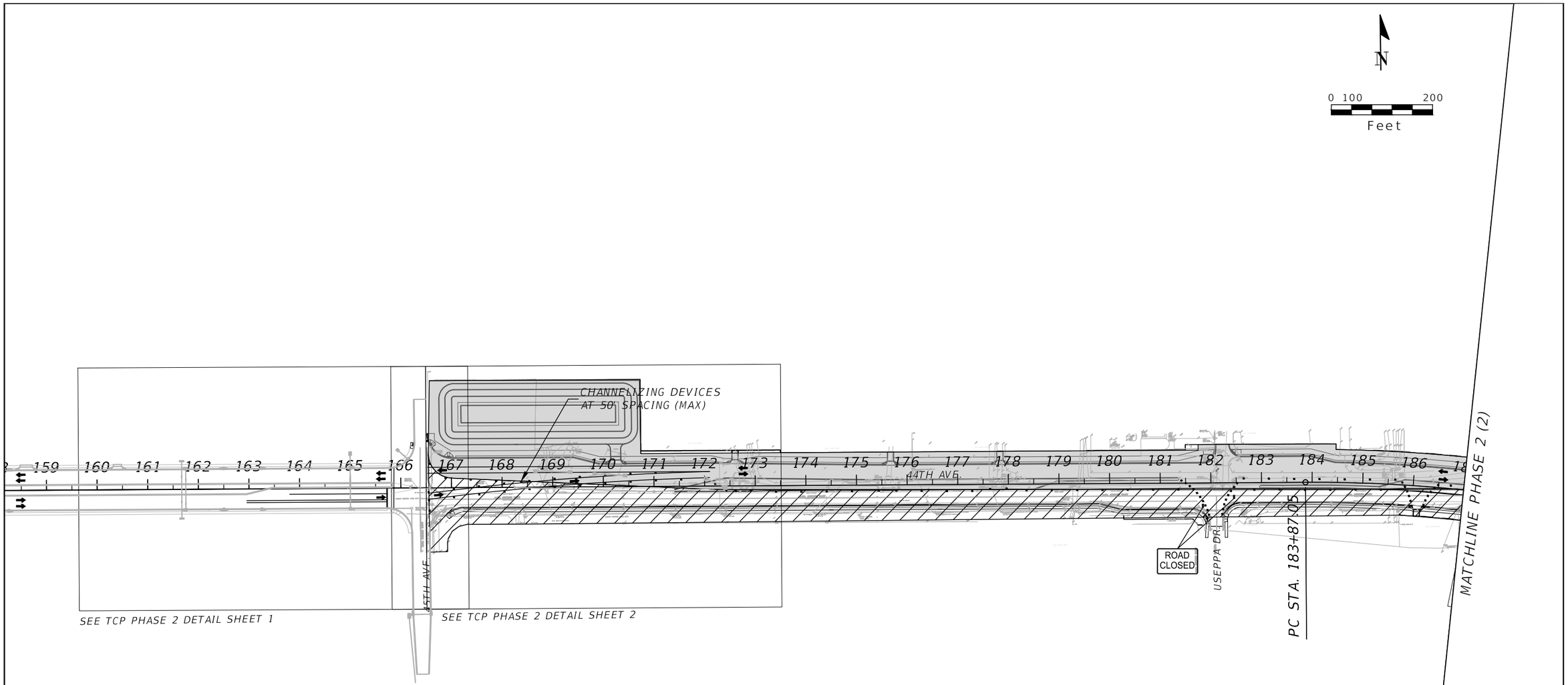
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TRAFFIC CONTROL PLAN 1 DETAIL SHEET 5

SHEET NO.: 303

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LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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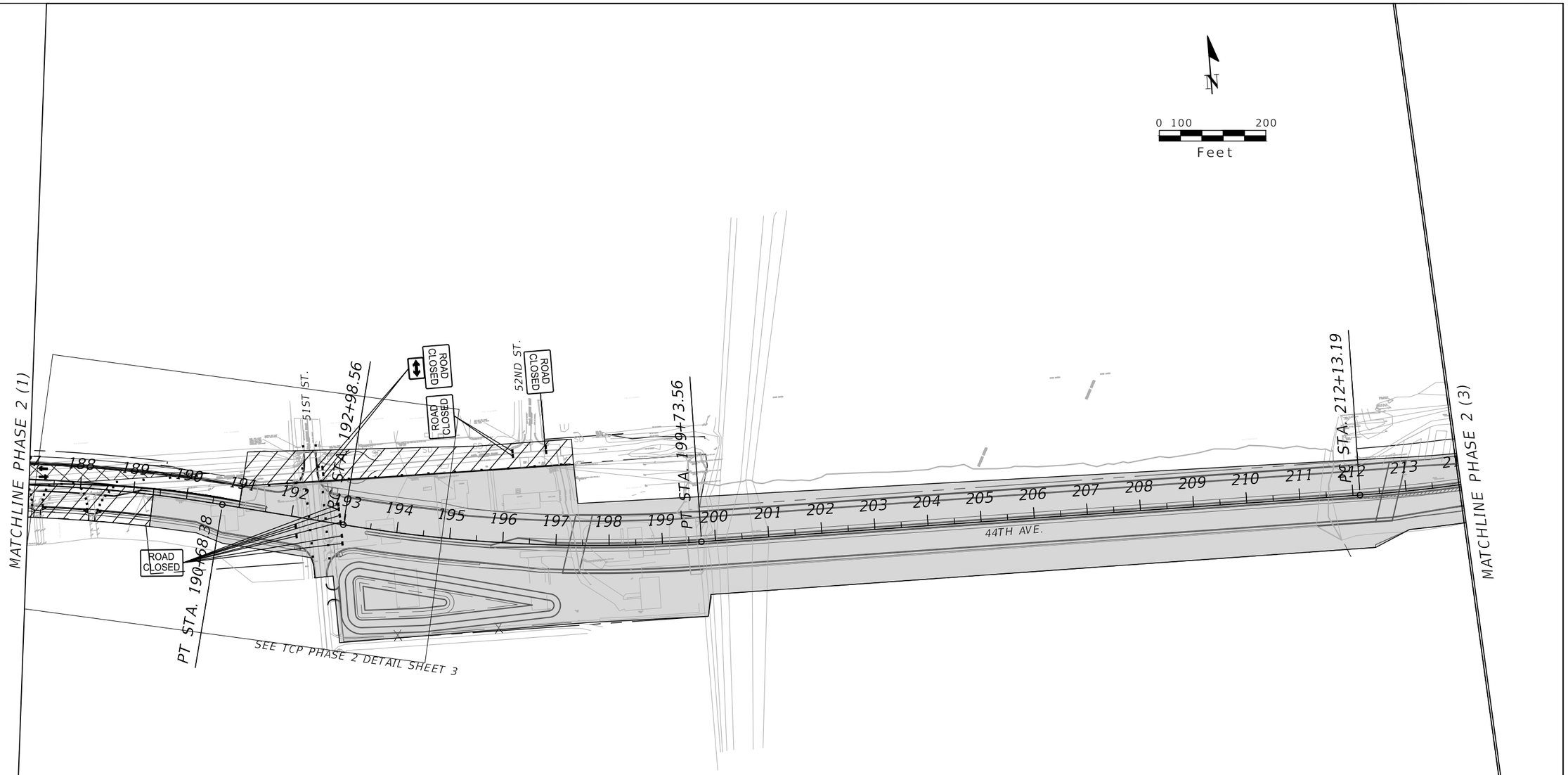
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TRAFFIC CONTROL PLAN PHASE 2 (1)

SHEET NO.: 304

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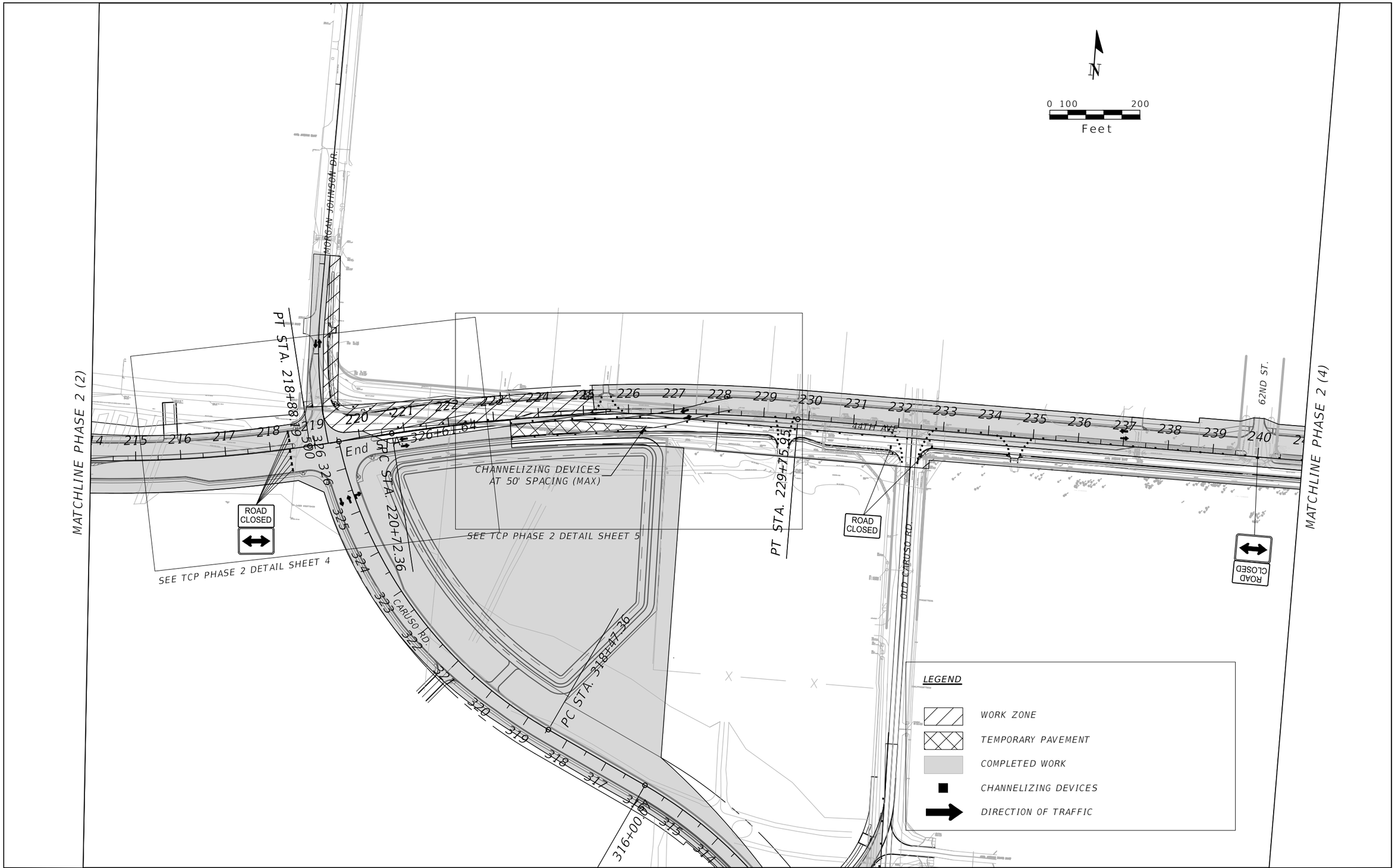
DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

TRAFIC CONTROL PLAN PHASE 2 (2)

SHEET NO. 305

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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN PHASE 2 (3)

SHEET NO.: 306

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N

0 100 200
Feet

MATCHLINE PHASE 2 (3)

241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267

44TH AVE.

65TH ST.

ROAD CLOSED
x2 (TYP)

ROAD CLOSED

PC STA. 257+58.16

ROAD CLOSED

44TH AVE. PLAZA EAST

PCC STA. 262+67.27

End STA. 267+44.86

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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PUBLIC WORKS DEPARTMENT
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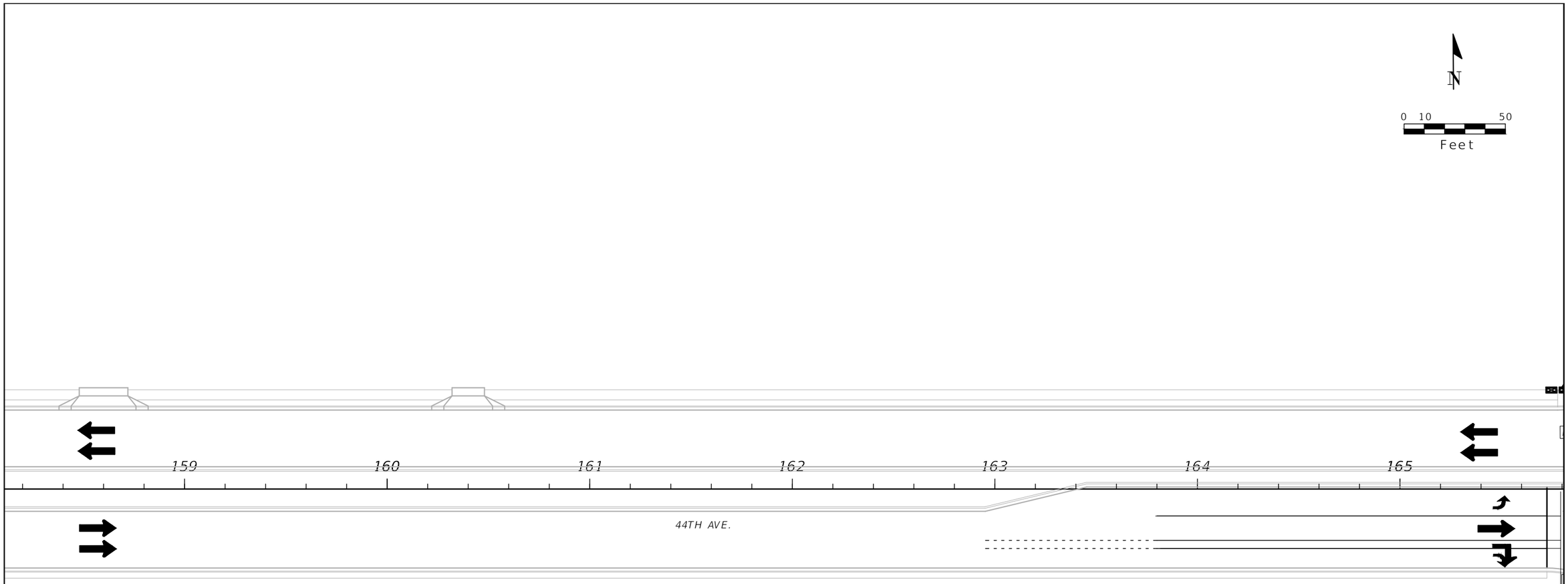
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TRAFFIC CONTROL PLAN PHASE 2 (4)

SHEET NO.: 307

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LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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Manatee County FLORIDA
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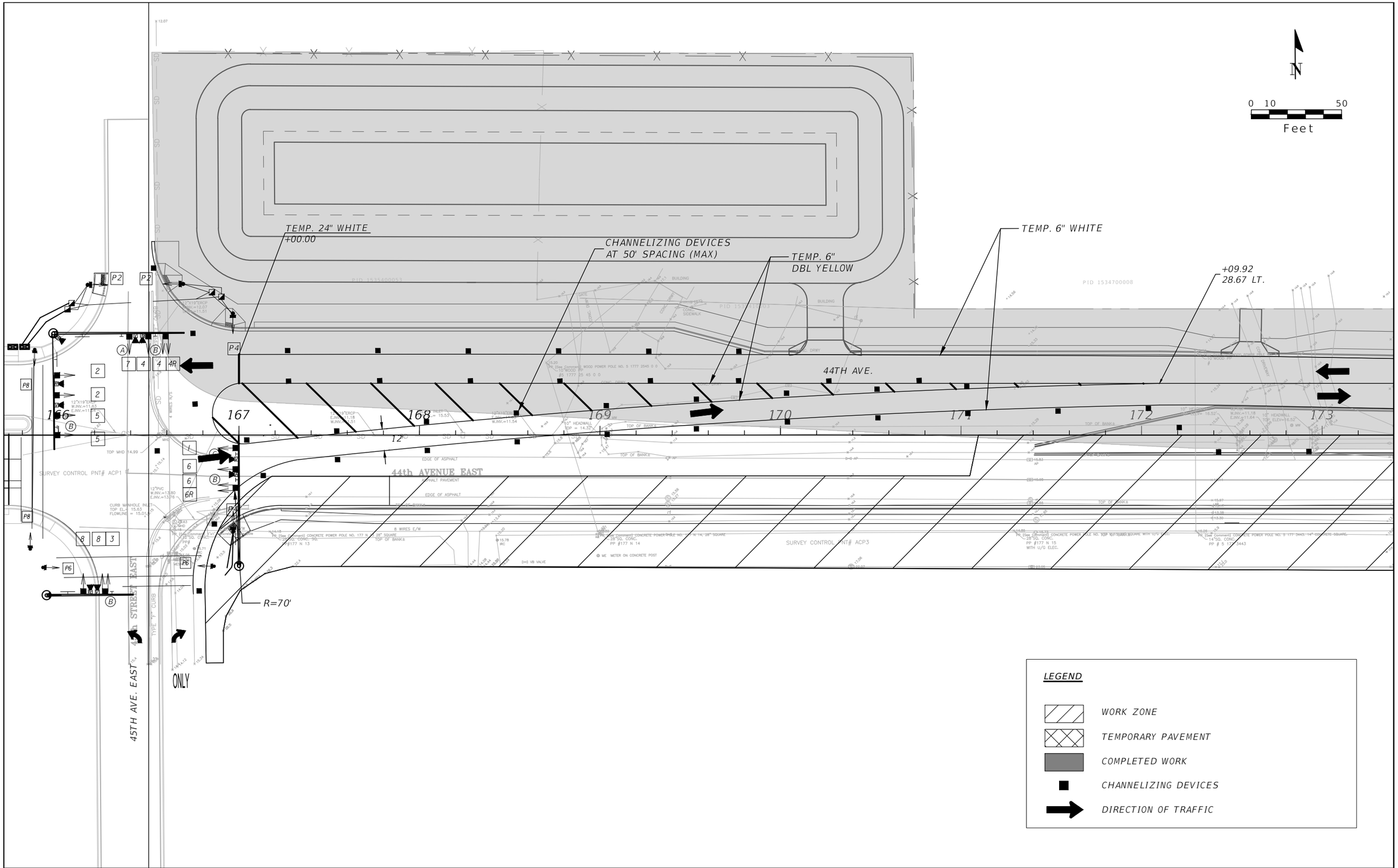
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TRAFFIC CONTROL PLAN 2 DETAIL SHEET 1

SHEET NO.: 308

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Manatee County FLORIDA
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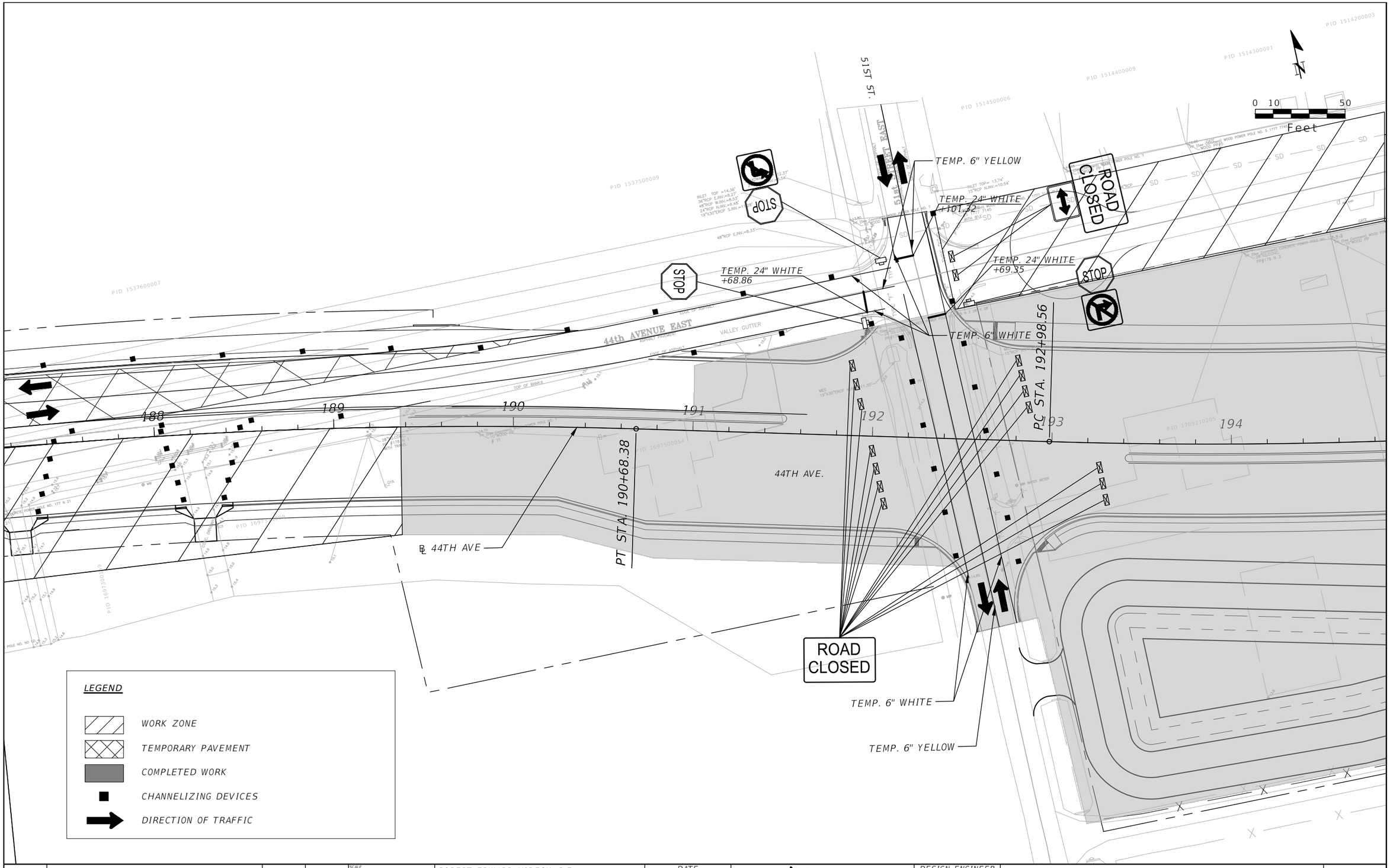
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FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN 2
DETAIL SHEET 2

SHEET NO.: 309

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PROJECT NO.: 6086960

Manatee County FLORIDA
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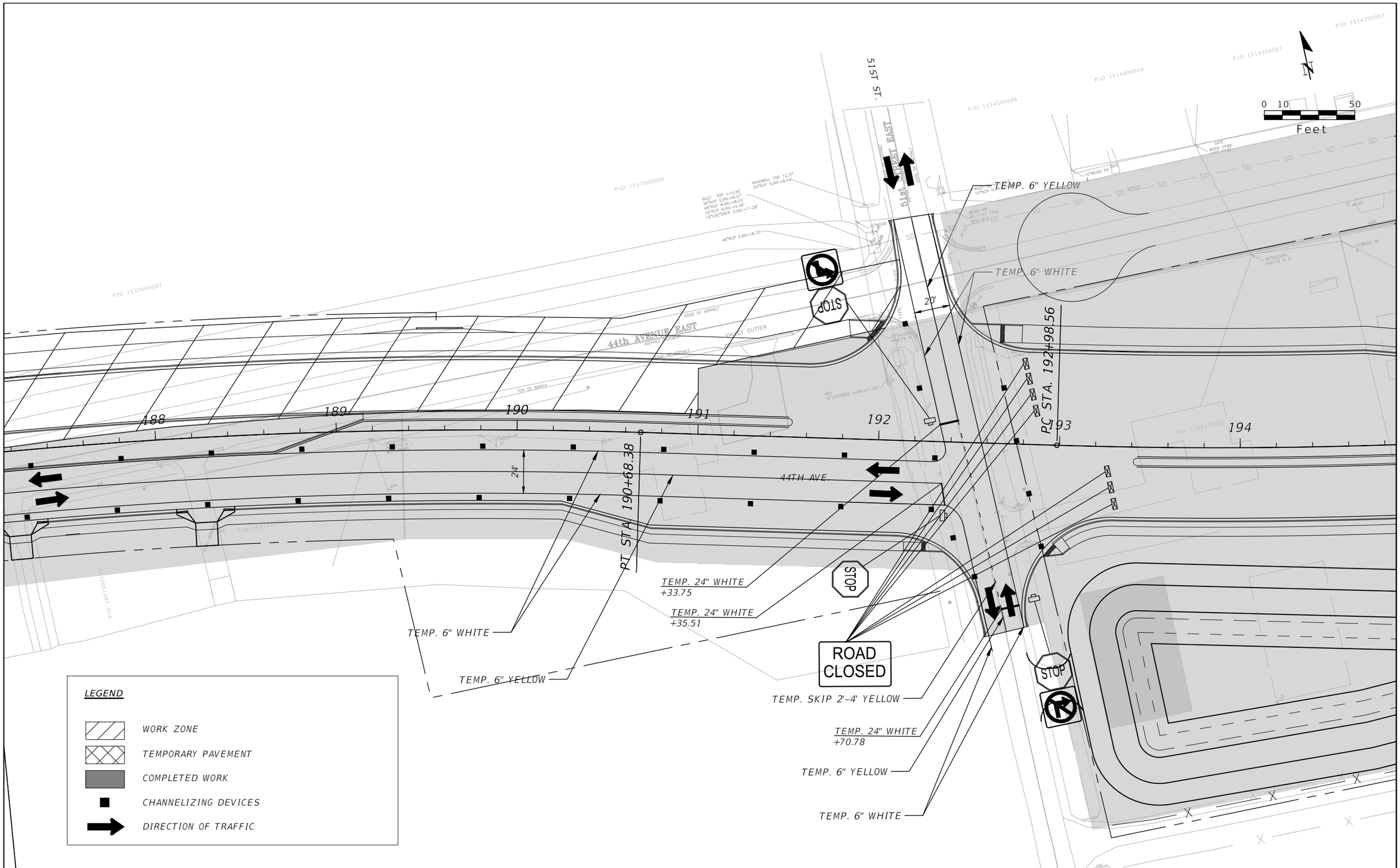
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN 2
DETAIL SHEET 3 STEP 1

SHEET NO.: 310

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TAMPA, FL 33634
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN 2
DETAIL SHEET 3 STEP 2

SHEET NO.: 311

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TEMP. 6" DBL YELLOW

TEMP. 6" WHITE

℄ MORGAN JOHNSON

TEMP. 24" WHITE
+87.05

TEMP. 24" WHITE
+31.00

CHANNELIZING DEVICES
AT 50' SPACING (MAX)

TEMP. 6" WHITE

TEMP. 6" DBL YELLOW

N

0 10 50
Feet

3-WAY STOP

STOP 3-WAY

502

501

500

PT STA. 218+88.88

75' R

Beg. STA. 220+00.00

End STA. 220+61.64

PC STA. 220+72.36

216 217 218 219 220 221 222

44TH AVE.
℄ 44TH AVE

MATCHLINE DETAIL 5 STEP 1

TEMP. 6" 2'-4' SKIP WHITE

TEMP. 18" YELLOW AT 10' SPACING

TEMP. 6" DBL YELLOW

ROAD CLOSED

CARUSO RD

TEMP. 24" WHITE
+45.50

STOP 3-WAY

TEMP. 6" WHITE

℄ CARUSO RD

NOTE: PLACE SIGNALS 3, 4, 7, 8
TO FLASHING RED UNTIL TRAFFIC
IN FINAL CONFIGURATION
TEMP. COVER SIGNALS 1, 2, 5, 6.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN 2
DETAIL SHEET 4 STEP 1

SHEET NO.: 312

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TEMP. 6" DBL YELLOW

℄ MORGAN JOHNSON

TEMP. 6" WHITE

TEMP. 24" WHITE
+87.05

20

502+00

501+00

500+00

PT STA. 218+88.00

Beg. STA. 500+00.00

End STA. 220+61.64

PC STA. 220+72.36

MATCHLINE DETAIL 5 STEP 2

TEMP 6" WHITE

TEMP
6" YELLOW
(4" SKIP)

TEMP
24" WHITE

TEMP
6" DBL YELLOW

+05.74
21.99 LT.

12'

75' R

216

217

218

219

220

221

222

44TH AVE.

℄ 44TH AVE

75' R

TEMP. 24" WHITE
+45.50

ROAD
CLOSED

28'

TEMP 6" WHITE

+85.00
4.00 RT.

TEMP 18" YELLOW
AT 10' SPACING

TEMP 6"
DBL YELLOW

℄ CARUSO RD

CARUSO RD

ROAD
CLOSED

N

0 10 50
Feet

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.

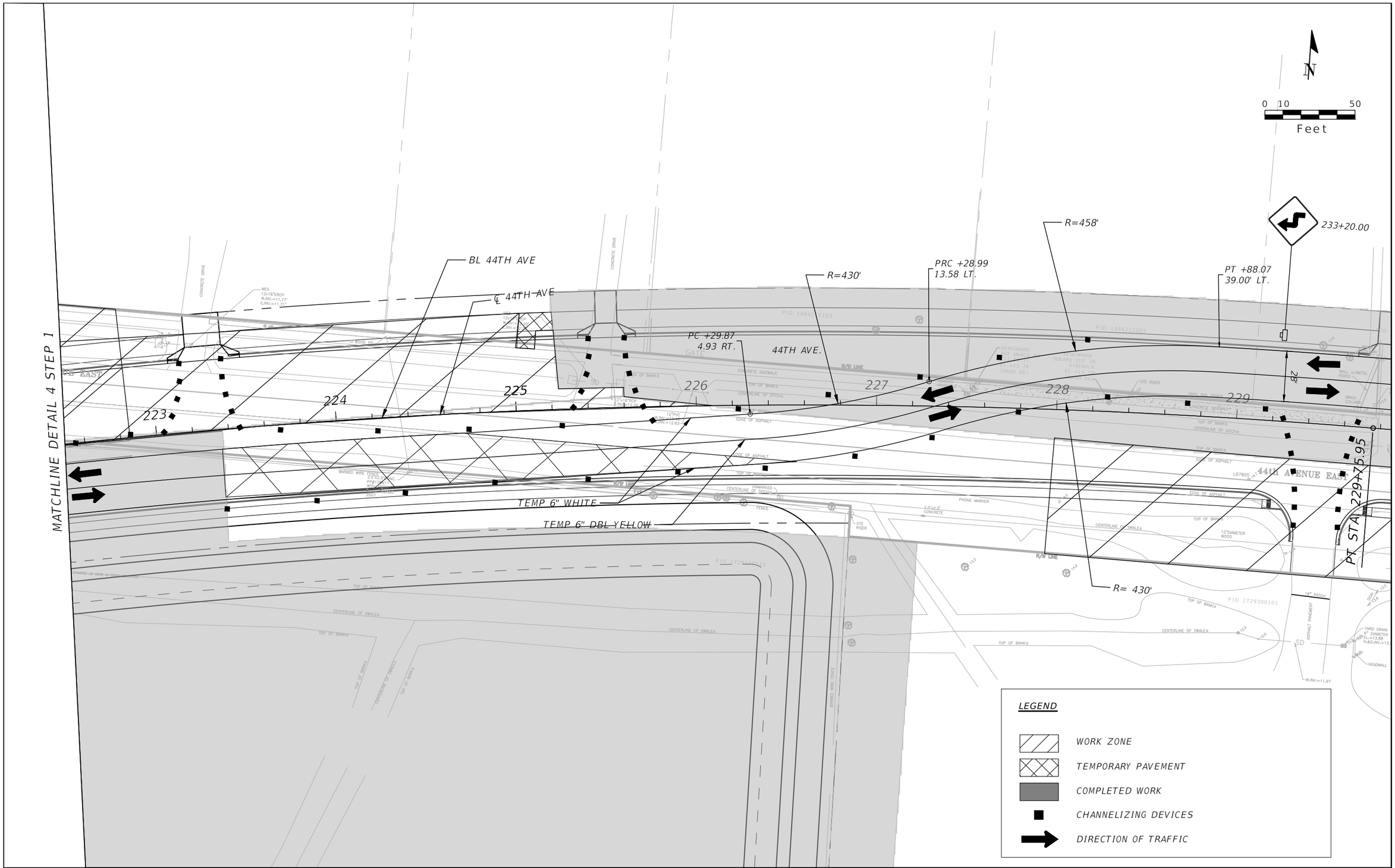
FL. LICENSE NO.
67495

TRAFFIC CONTROL PLAN 2
DETAIL SHEET 4 STEP 2

SHEET NO.
313

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Manatee County FLORIDA
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TRAFFIC CONTROL PLAN 2
DETAIL SHEET 5 STEP 1

SHEET NO.: 314

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MATCHLINE DETAIL 4 STEP 2

N

0 10 50
Feet

TEMP. 6" DBL YELLOW

BL 44th AVE

TEMP. 6" WHITE

44TH AVE.

223 224 225 226 227 228 229

28'

PT STA 229+75.95

44th AVENUE EAST

CONCRETE DRIVE

MES 12x18"ERCP W.INV.=11.77' E.INV.=11.71'

12x18"ERCP W.INV.=12.20' E.INV.=12.20'

12"PVC W.INV.=12.48 E.INV.=12.53

BARBED WIRE FENCE

2.5'X2.5'CONC. PP#178N11 WITH METAL ANGLE POST

FENCE

GTE RISER

PHONE MARKER

2.5'X2.5' CONCRETE

12"DIAMETER WOOD

18" PATCH

ASPHALT PAVEMENT

YARD DRAIN 6" DIAMETER EL.=13.89 N.&S.INV.=13.

HEADWALL

W.INV.=11.97

PID 1729300101

PID 1729319219

PID 1494215153

PID 1494215207

BENCHMARK RDF MANCO BM 123-88-17 EL.=13.79' (NAVD 88)

BENCHMARK SQUARE CUT IN EL.=13.79' (NAVD 88)

TOP OF BANKS

CENTERLINE OF SWALE±

EDGE OF ASPHALT

CONCRETE SIDEWALK

CENTERLINE OF DITCH

UNMARKED R/W LINE

R/W LINE

WALL W/METAL FENCE

BRICK COLUMN

SD

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- COMPLETED WORK
- CHANNELIZING DEVICES
- DIRECTION OF TRAFFIC

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Mitch Johnson

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.

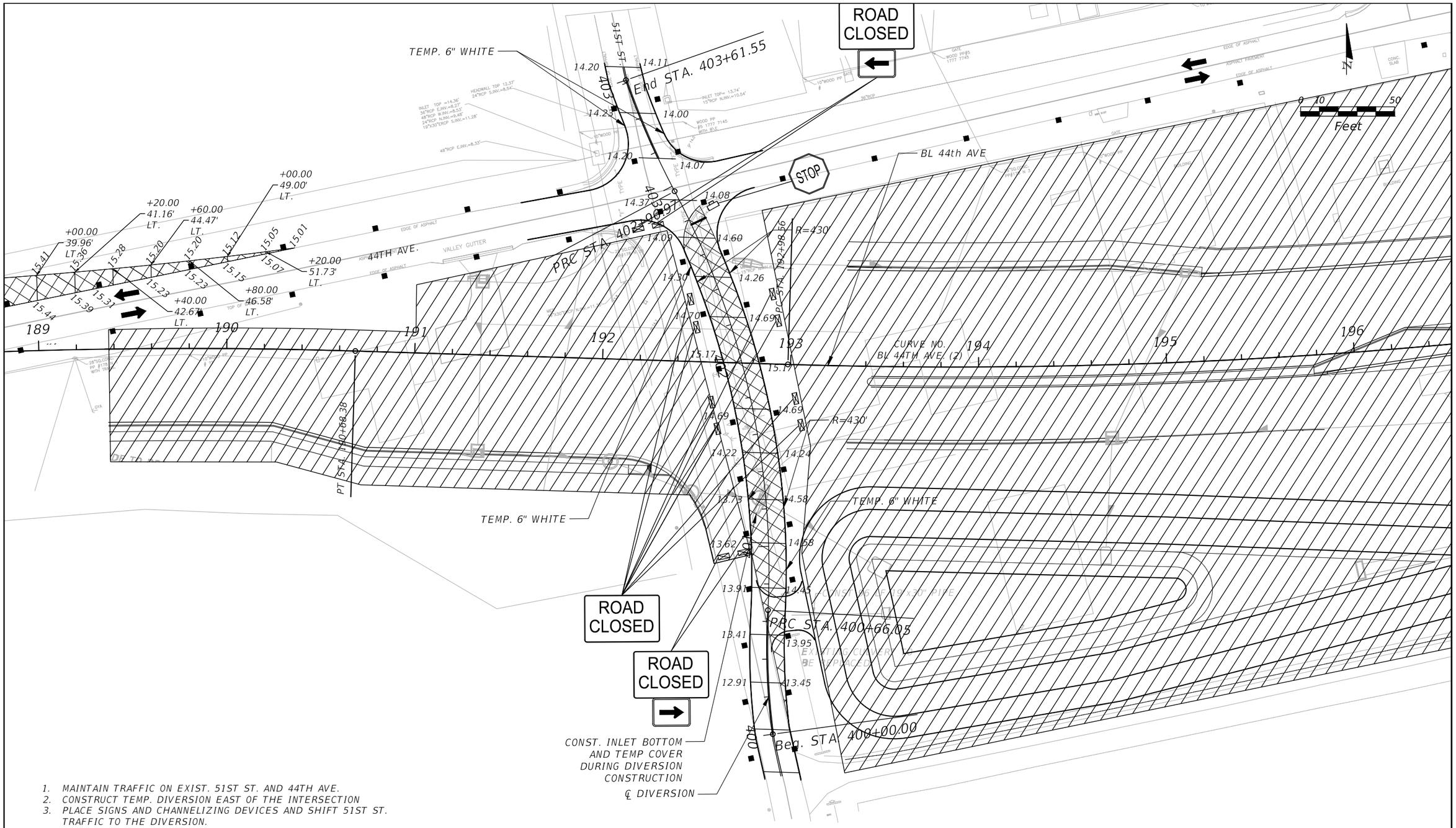
FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN 2
DETAIL SHEET 5 STEP 2

SHEET NO.: 315

2/7/2019 2:14:09 PM

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1. MAINTAIN TRAFFIC ON EXIST. 51ST ST. AND 44TH AVE.
2. CONSTRUCT TEMP. DIVERSION EAST OF THE INTERSECTION
3. PLACE SIGNS AND CHANNELIZING DEVICES AND SHIFT 51ST ST. TRAFFIC TO THE DIVERSION.
4. CONSTRUCT 44TH AVE. WEST OF THE DIVERSION.
5. REMOVE DIVERSION AND SHIFT TRAFFIC TO EXISTING PATTERN.

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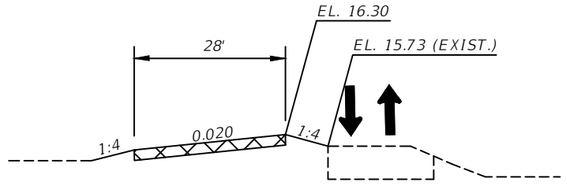
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FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN 51ST ST. DIVERSION DETAIL (1)

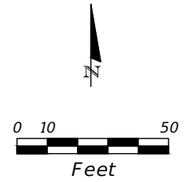
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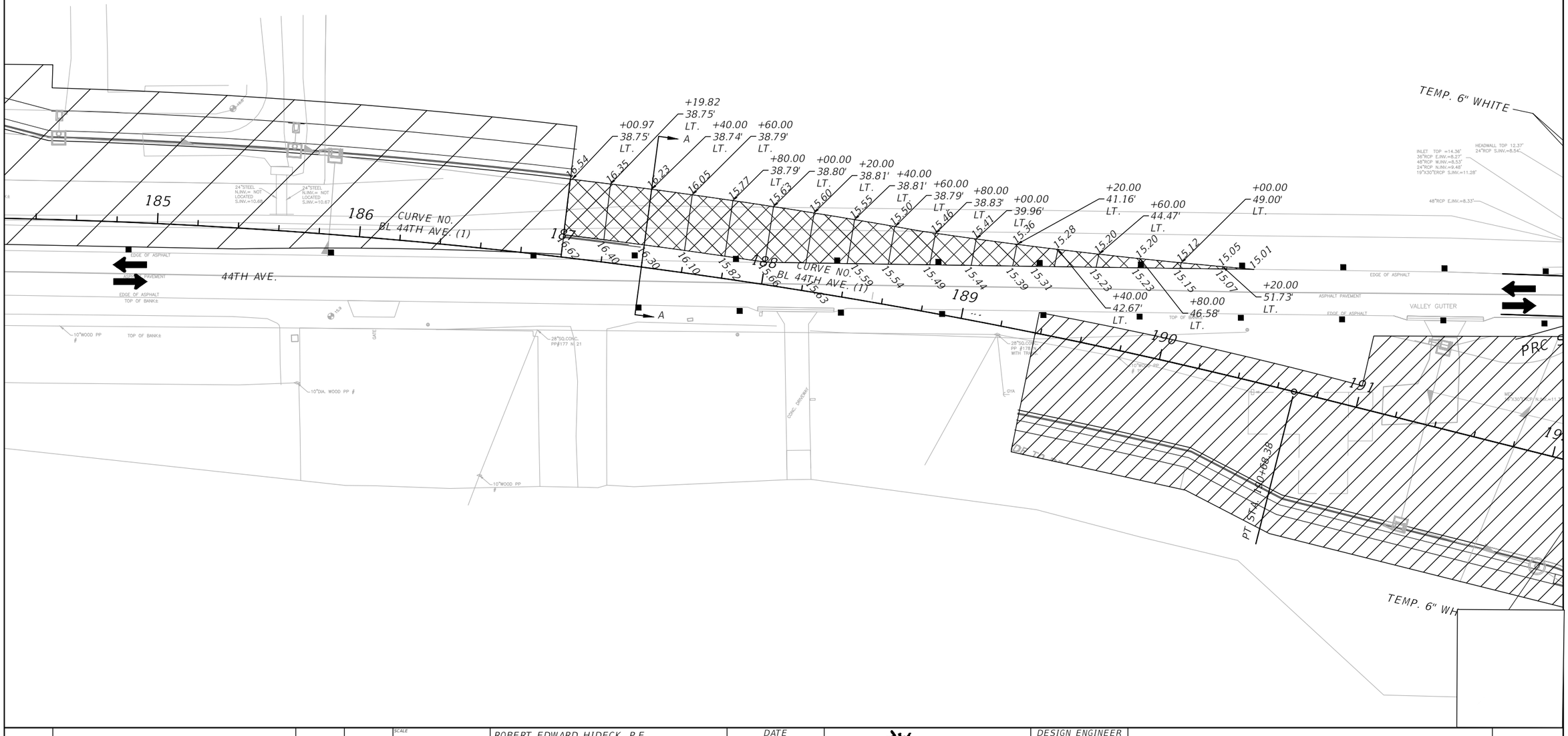
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SECTION A-A
STA. 187+40





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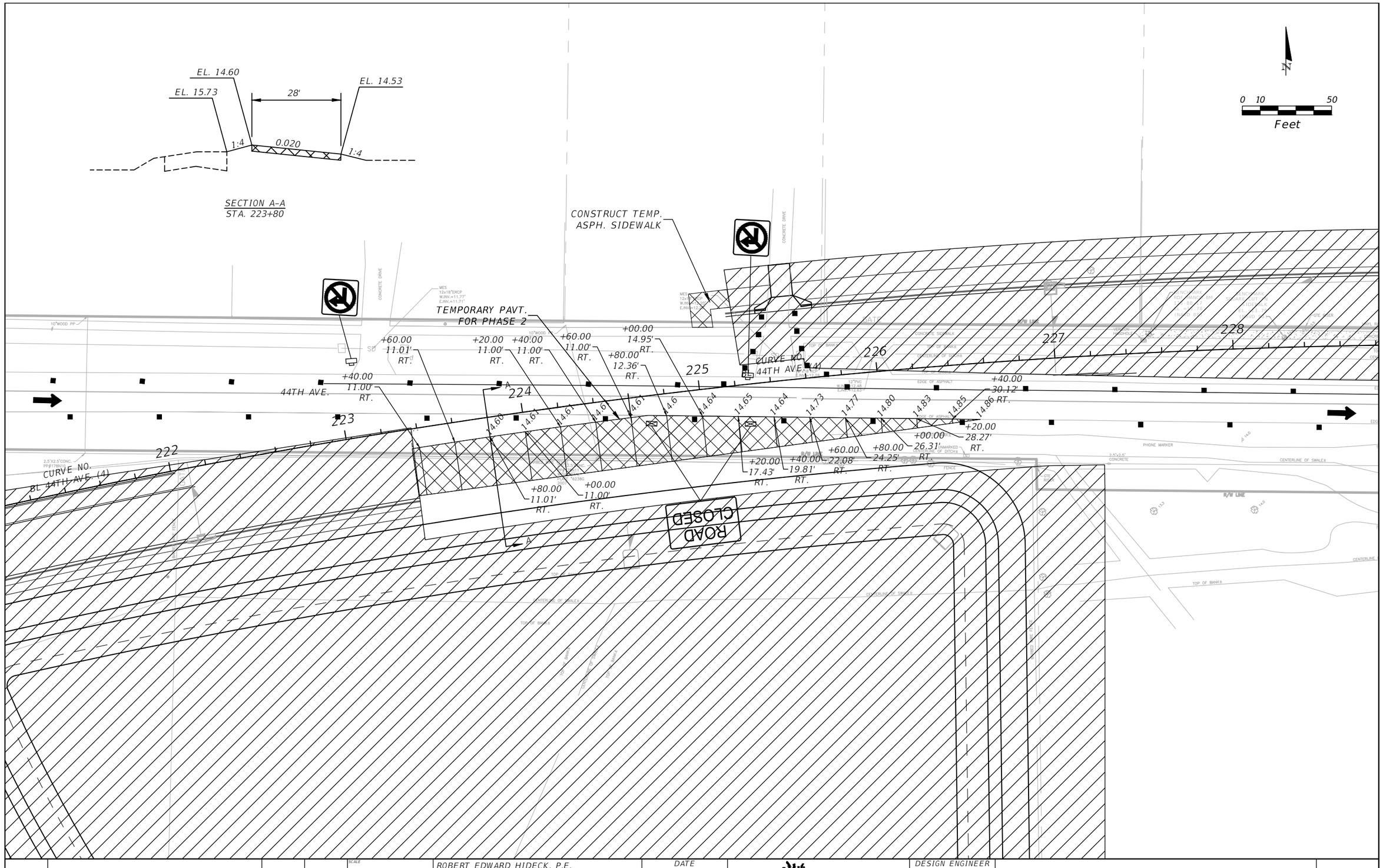
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
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TRAFFIC CONTROL PLAN WB DIVERSION DETAIL (2)

SHEET NO.: 317

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SECTION A-A
STA. 223+80



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DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

TRAFFIC CONTROL PLAN EB DIVERSION DETAIL (3)

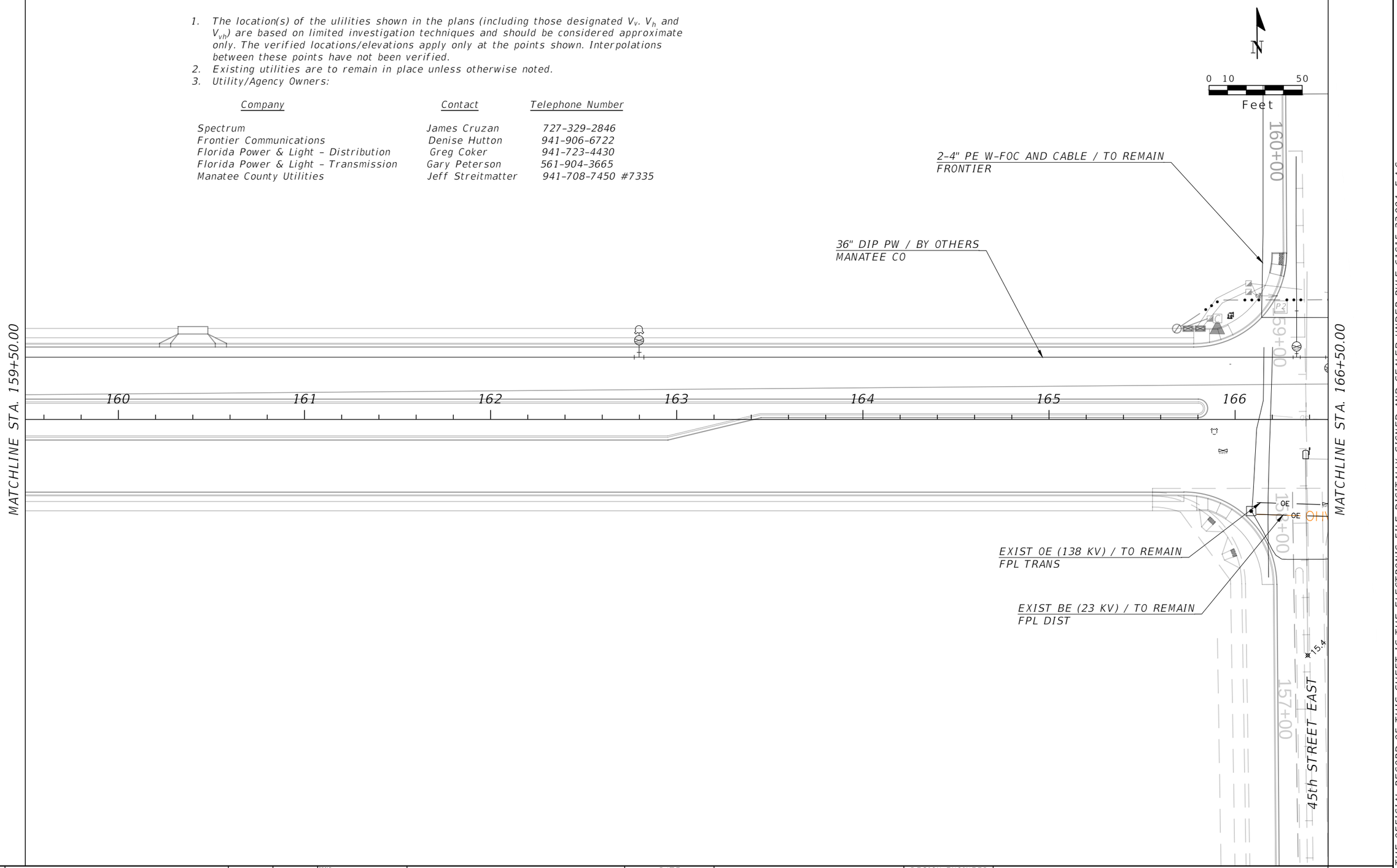
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1. The location(s) of the ulilities shown in the plans (including those designated V_v. V_h and V_{vh}) are based on limited investigation techniques and should be considered approximate only. The verified locations/elevations apply only at the points shown. Interpolations between these points have not been verified.
2. Existing utilities are to remain in place unless otherwise noted.
3. Utility/Agency Owners:

Company	Contact	Telephone Number
Spectrum	James Cruzan	727-329-2846
Frontier Communications	Denise Hutton	941-906-6722
Florida Power & Light - Distribution	Greg Coker	941-723-4430
Florida Power & Light - Transmission	Gary Peterson	561-904-3665
Manatee County Utilities	Jeff Streitmatter	941-708-7450 #7335



No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

UTILITY ADJUSTMENT (1)

SHEET NO.: 319

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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2/6/2019 10:29:03 AM
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EXIST OE (23 KV) / FPL DIST

2-4" PE W-FOC,CABLE / TO BE SUPPORTED FRONTIER

FOC SPLICE BOX / TO BE ADJUSTED FRONTIER

44th AVENUE EAST

0 10 50 Feet

2-1.5" PE CATV / PROPOSED SPECTRUM

2-2" PE W-FOC,CABLE / PROPOSED FRONTIER

2" PE / TO BE REMOVED FRONTIER

EXIST UG CATV / TO BE ADJUSTED WHERE REQUIRED SPECTRUM

BUR CABLE / TO BE REMOVED FRONTIER

FOC SPLICE BOX / TO BE ADJUSTED FRONTIER

36" DIP PW / PROPOSED MANATEE CO

2-4" PE / TO BE SUPPORTED FRONTIER

0H SERVICE POLE / PROPOSED FPL DIST

6" DI PW / PROPOSED MANATEE CO

PROP RW LINE

ABANDONED 1.5 CATV / TO BE REMOVED SPECTRUM

EXIST OE / TO BE REMOVED FPL DIST

EXIST 4" PVC W-FOC / TO BE REMOVED FRONTIER

EXIST OE (23 KV) / RELOCATED BY PROJ.# 00193008.25 FPL DIST

EXIST OE (138 KV) / TO REMAIN FPL TRANS

EXIST OE (23 KV) / TO REMAIN FPL DIST

EXIST RW LINE

8" FM (DRY) / PROPOSED MANATEE CO

EXIST BE (23 KV) / TO REMAIN FPL DIST

EXIST 30" DIP PW / TO BE REMOVED MANATEE CO

EXIST 36" PCCP WM / TO BE REMOVED MANATEE CO

30" DIP PW / PROPOSED MANATEE CO

EXIST 1.5 CATV / TO BE REMOVED SPECTRUM

FOC SPLICE BOX / TO BE ADJUSTED FRONTIER

4" PVC W-FOC / TO REMAIN FRONTIER

MATCHLINE STA. 166+50.00

MATCHLINE STA. 173+50.00

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE 02/2019

PROJECT NO. 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER ROBERT EDWARD HIDECK, P.E.

FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (2)

SHEET NO. 320

Floyd, Cindy 6/11/2019 8:40:58 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\UTADRD01.dwg

EXIST 4" PVC W-FOC / TO BE REMOVED
FRONTIER

2-2" PE W-FOC,CABLE / PROPOSED
FRONTIER

2- 1.5" PE CATV / PROPOSED
SPECTRUM

OH SERVICE POLE / PROPOSED
FPL DIST

EXIST 1.5" UG CATV /
TO BE REMOVED
SPECTRUM

44th AVENUE EAST

36" DIP PW / PROPOSED
MANATEE CO

EXIST 2" PE W-CABLE / TO BE REMOVED
FRONTIER

EXIST UG CATV / TO BE REMOVED
SPECTRUM

OH ELEC / PROPOSED
FPL DIST

OH SERVICE POLE / PROPOSED
FPL DIST

30" DIP PW / PROPOSED
MANATEE CO

EXIST OE (23 KV) / TO REMAIN
FPL DIST

PROP RW LINE

N

0 10 50
Feet

MATCHLINE STA. 173+50.00

MATCHLINE STA. 180+50.00

EXIST OE (138 KV) / TO REMAIN
FPL TRANS

EXIST OH (23 KV) / TO BE REMOVED
FPL DIST

EXIST OE (23 KV) / TO REMAIN
FPL DIST

1-4' PVC W-FOC / TO REMAIN
FRONTIER

8" FM (DRY) / PROPOSED
MANATEE CO

EXIST 30" DIP PW / TO BE REMOVED
MANATEE CO

EXIST RW LINE

30" DIP PW / PROPOSED
MANATEE CO

EXIST 36" PCCP PW / TO BE REMOVED
MANATEE CO

EXIST OE (138 KV) / TO BE ADJUSTED
FPL TRANS

8" DIP PW / PROPOSED
MANATEE CO

4' PVC W-FOC / TO BE ADJUSTED
FRONTIER

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PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.

FL. LICENSE NO.
67495

UTILITY ADJUSTMENT (3)

SHEET NO.
321

Floyd, Cindy 6/11/2019 8:43:04 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\UTADRD01.dwg

EXIST 2' PE W-CABLE / TO BE REMOVED
FRONTIER

EXIST BUR TELE / TO REMAIN
FRONTIER

BT / TO BE REMOVED
FRONTIER

36" DIP PW / PROPOSED
MANATEE CO

2" PE W-FOC / PROPOSED
FRONTIER

EXIST 36" PCCP PW / TO BE REMOVED
MANATEE CO

2-1.25" PE W-FOC / TO BE REMOVED
FRONTIER

44th AVENUE EAST

N

0 10 50
Feet

PROP RW LINE

MATCHLINE STA. 180+50.00

MATCHLINE STA. 187+50.00

181 182 183 184 185 186 187

TH 102 TH 101 TH 136 TH 90 TH 100 TH 99 TH 98 TH 97 TH 89

EXIST RW LINE

USEPPA DRIVE

POWER POLE / PROPOSED
FPL DIST

EXIST 8" PVC WM / TO BE REMOVED
MANATEE CO

8" DIP PW / PROPOSED
MANATEE CO

POWER POLE / TO BE REMOVED
FPL TRANS

4" PVC W-FOC / TO BE ADJUSTED
FRONTIER

EXIST 6" PVC FM / TO BE REMOVED
MANATEE CO

EXIST 8" PVC WM / TO REMAIN
MANATEE CO

1.25" PE W-FOC / TO BE ADJUSTED
FRONTIER

EXIST BE (23KV) / TO REMAIN
FPL DIST

POWER POLE / TO BE CAPPED
FPL TRANS

POWER POLE / PROPOSED
FPL TRANS

8" FM (DRY) / PROPOSED
MANATEE CO

EXIST OE (23KV) / TO BE RELOCATED
FPL DIST

EXIST OE (138KV) / TO BE RELOCATED
FPL TRANS

EXIST 4" PVC W-FOC / TO REMAIN
FRONTIER

FIBER HUB / TO REMAIN & ADJUSTED
FRONTIER

OH (23KV) / PROPOSED
FPL DIST

POWER POLE / PROPOSED
FPL TRANS

EXIST BT / TO BE REMOVED
FRONTIER

2-1.5" UG CATV / PROPOSED
SPECTRUM

POWER POLE / TO BE REMOVED
FPL TRANS

EXIST UG CATV / TO BE REMOVED
SPECTRUM

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ROBERT EDWARD HIDECK, P.E.
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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
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DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

UTILITY ADJUSTMENT (4)

SHEET NO.: 322

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44th AVENUE EAST

0 10 50
Feet

MATCHLINE STA. 187+50.00

MATCHLINE STA. 194+50.00

51st STREET EAST

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST 4" PW / TO REMAIN
MANATEE CO

EXIST BT / TO BE REMOVED
FRONTIER

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST 36" PW / TO BE REMOVED
MANATEE CO

POWER POLE / PROPOSED
FPL DIST

EXIST BE (23KV) / TO REMAIN
FPL DIST

EXIST OE (23KV) / TO BE REMOVED
FPL DIST

POWER POLE / TO BE REMOVED
FPL TRANS

36" DIP PW / PROPOSED
MANATEE CO

POWER POLE / TO BE REMOVED
FPL TRANS

2" PE W-FOC / PROPOSED
FRONTIER

EXIST 36" PCCP PW / TO BE REMOVED
MANATEE CO

1.25" PE W-FOC / TO BE REMOVED
FRONTIER

POWER POLE / PROPOSED
FPL TRANS

EXIST RW LINE

PROP RW LINE

POWER POLE
PROPOSED
FPL TRANS

EXIST UG CATV / TO BE REMOVED
SPECTRUM

EXIST OE (23KV) / TO BE REMOVED
FPL DIST

EXIST BT / TO BE REMOVED
FRONTIER

30" DI PW / PROPOSED
MANATEE CO

6" DI DRY FM / PROPOSED
MANATEE CO

EXIST 30" PW / TO BE REMOVED
MANATEE CO

EXIST 4" WM / TO BE REMOVED
MANATEE CO

PROP RW LINE

EXIST UG CATV / TO BE REMOVED
SPECTRUM

OE (23KV) / PROPOSED
FPL DIST

8" FM (DRY) / PROPOSED
MANATEE CO

2-4" PE / PROPOSED
FRONTIER

2-1.5" UG CATV / PROPOSED
SPECTRUM

1.25" PE W-FOC & CABLE /
TO BE REMOVED
FRONTIER

4" PVC / TO BE REMOVED
FRONTIER

POWER POLE / PROPOSED
FPL DIST

2" UG CATV / TO BE REMOVED
SPECTRUM

EXIST OE (138KV) / TO BE RELOCATED
FPL TRANS

EXIST OE (23KV) / TO REMAIN
FPL DIST

POWER POLE / PROPOSED
FPL DIST

EXIST OE (23KV) / TO BE REMOVED
FPL DIST

EXIST 30" DIP PW / TO REMAIN
MANATEE CO

2-1.5" UG CATV / PROPOSED
SPECTRUM

EXIST UG CATV / TO REMAIN
SPECTRUM

2-1.25" PE W-FOC / PROPOSED
FRONTIER

FOC & CABLE / TO REMAIN
FRONTIER

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5110 EISENHOWER BOULEVARD, SUITE 310
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (5)

SHEET NO. 323

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EXIST BT / TO BE REMOVED
FRONTIER

EXIST UG CATV / TO REMAIN
SPECTRUM

52nd ST. EAST

EXIST 2" PW / TO REMAIN
MANATEE CO

EXIST BE (23KV) / TO REMAIN
FPL DIST

EXIST 0E (138KV) / TO REMAIN
FPL TRANS

EXIST RW LINE

44th AVENUE EAST

TH 83

TH 84

TH 85

EXIST 0E (23KV) / TO REMAIN
FPL DIST

EXIST 0E (23KV) / TO BE REMOVED
FPL DIST

EXIST 2" PVC CATV /
TO BE REMOVED
SPECTRUM

EXIST BT / TO BE REMOVED
FRONTIER

36" PW / PROPOSED
MANATEE CO

8" FM (DRY) / PROPOSED
MANATEE CO

EXIST 0E (23KV) / TO BE REMOVED
FPL DIST

PROP RW LINE

BRADEN RIVER

MATCHLINE STA. 194+50.00

MATCHLINE STA. 201+50.00

OHU

OPEN WATER

CONST 43 LF 18" PIPE

CONST 96 LF 18" PIPE

CONST 208 LF 18" PIPE

CONST 61 LF 24" PIPE

CONST 387 LF 2-36" PIPE

18" PIPE

S-141 S-142 S-143 S-144 S-145 S-146 S-146A

CS-146

195 196 197 198 199 200 201

0 10 50
Feet

N

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DATE
02/2019

PROJECT NO.
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.

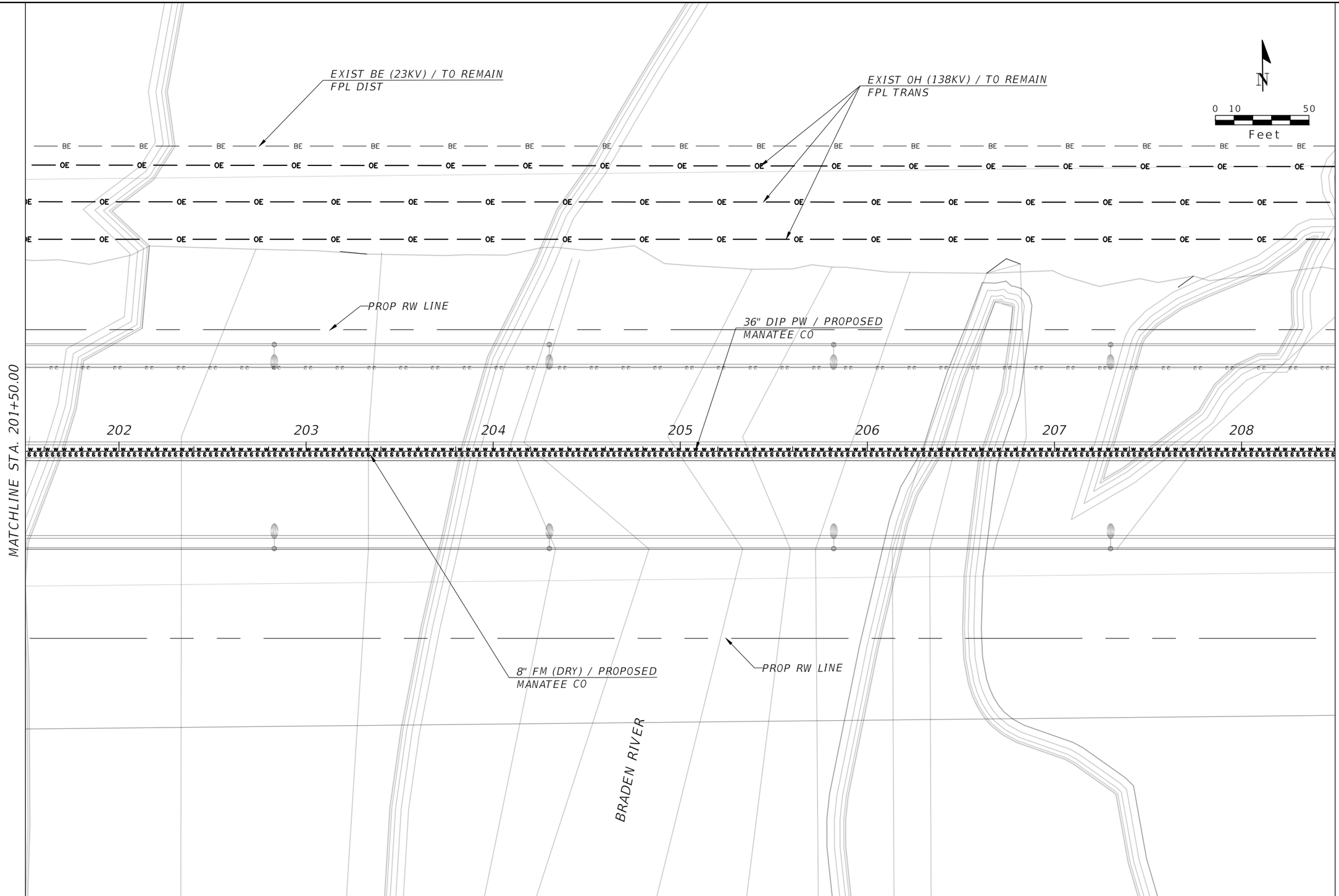
FL. LICENSE NO.
67495

UTILITY ADJUSTMENT (6)

SHEET NO.
324

Floyd, Cindy 6/11/2019 8:49:34 AM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD01.dwg

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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

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PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (7)

SHEET NO. 325

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EXIST OE (138KV) / TO REMAIN
FPL TRANS

EXIST BE (23KV) / TO REMAIN
FPL DIST

EXIST OE (23KV) / TO REMAIN
FPL DIST

44th AVENUE EAST

EXIST BE (23KV) / TO BE RELOCATED
FPL DIST

36" DIP PW / PROPOSED
MANATEE CO

PROP RW LINE

MATCHLINE STA. 208+50.00

MATCHLINE STA. 215+50.00

209 210 211 212 213 214 215

CONST 172 LF 36" PIPE

CONST 173 LF 42" PIPE

CONST 79 LF 18" PIPE

CONST 41 LF 30" PIPE

CONST 110 LF 30" PIPE

9.40

11.83

S-299 S-300 S-300A S-301 S-303

BRADEN RIVER

PROP RW LINE

8" FM (DRY) / PROPOSED
MANATEE CO

N

0 10 50
Feet

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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (8)

SHEET NO. 326

Floyd, Cindy 6/11/2019 8:53:55 AM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD01.dwg

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST BE (23KV) / TO REMAIN
FPL DIST

EXIST OE (138KV) / TO REMAIN
FPL TRANS

EXIST RW LINE

2-BT / TO BE REMOVED
FRONTIER

44th AVENUE EAST

EXIST OE (23KV) / TO REMAIN
FPL DIST

POWER POLE / TO BE CAPPED
FPL TRANS/DIST

EXIST OE (23KV) / TO REMAIN
FPL DIST

36" DIP PW / PROPOSED
MANATEE CO

PROP RW LINE

POWER POLE / PROPOSED
FPL TRANS

MATCHLINE STA. 215+50.00

MATCHLINE STA. 502+00.00 (20)

4-1.5" UG CATV / PROPOSED
SPECTRUM

EXIST 8" PVC WM / TO BE REMOVED
MANATEE CO

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST DIR BUR FOC / TO REMAIN
AND ADJUSTED BY CONTRACTOR
MANATEE CO SCHOOLS

EXIST 8" PVC FM /TO BE REMOVED
MANATEE CO

4" PVC / PROPOSED
FRONTIER

EXIST BT / TO BE REMOVED
FRONTIER

8" PVC PW / PROPOSED
MANATEE CO

EXIST RW LINE

POWER POLE /
TO BE REMOVED
FPL TRANS

57th STREET EAST

TH 144

TH 145

501

500

326

CARUSO RD.

MATCHLINE STA. 325+00.00 (19)

MATCHLINE STA. 222+50.00

POWER POLE / PROPOSED
FPL TRANS

2-BT / TO BE REMOVED
FRONTIER

EXIST 2" PVC CATV / TO BE REMOVED
SPECTRUM

10" FM / PROPOSED
MANATEE CO

OE (23KV) / TO BE RELOCATED
FPL DIST

OE (138KV) / TO BE RELOCATED
FPL TRANS

2-1.25" PE / PROPOSED
FRONTIER

PROP RW LINE

8" FM (DRY) / PROPOSED
MANATEE CO

12" DIP PW / PROPOSED
MANATEE CO

EXIST 2-1.25" PE / TO BE REMOVED
FRONTIER

8" FM / PROPOSED
MANATEE CO

EXIST 2-1.25" PE / TO REMAIN
FRONTIER

N

0 10 50
Feet

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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (9)

SHEET NO. 327

44th AVENUE EAST

EXIST 2-1.25" PE W-FOC & BT / TO BE REMOVED
FRONTIER

EXIST UG CATV / TO BE REMOVED
SPECTRUM

1.5" UG CATV / PROPOSED
SPECTRUM

EXIST BE (23KV) / TO BE REMOVED
FPL DIST

1.25" PE W-FOC / PROPOSED
FRONTIER

EXIST BE (23KV) /
TO BE REMOVED
FPL DIST

BE (23KV) / PROPOSED
FPL DIST

BE (23KV) / PROPOSED
FPL DIST

2-4" PE / PROPOSED
FRONTIER

EXIST 8" PVC PW / TO BE REMOVED
MANATEE CO

EXIST DIR BUR FOC / TO REMAIN
AND ADJUSTED BY CONTRACTOR
MANATEE CO SCHOOLS

4-1.5" UG CATV / PROPOSED
SPECTRUM

5-1.5" UG CATV / PROPOSED
SPECTRUM

8" PW / PROPOSED
MANATEE CO

OH SERVICE POLE / PROPOSED
FPL DIST

EXIST RW LINE

PROP RW LINE

MATCHLINE STA. 222+50.00

MATCHLINE STA. 229+50.00

TH 146

TH 147

TH 148

TH 6

TH 78

224

225

226

227

228

229

223

CONST 78 LF 54" PIPE

CONST 75 LF 60" PIPE

CONST 85 LF 60" PIPE

POWER POLE / PRPOPSED
FPL TRANS

EXIST 2-BT / TO BE REMOVED
FRONTIER

EXIST 2-UG CATV / TO BE REMOVED
SPECTRUM

EXIST OE (138KV) / TO BE RELOCATED
FPL TRANS

EXIST 8" PVC FM / TO BE REMOVED
MANATEE CO

EXIST OE (23KV) / TO BE RELOCATED
FPL DIST

4-1.5" UG CATV / PROPOSED
SPECTRUM

EXIST PEDESTAL / TO REMAIN & ADJUSTED
SPECTRUM

POWER POLE / TO BE REPLACED
FPL TRANS

EXIST BE (23KV) / TO REMAIN
FPL DIST

10" FM / PROPOSED
MANATEE CO

PROP RW LINE

EXIST 5-2" UG CATV / TO REMAIN
SPECTRUM

EXIST OE (138KV) / TO REMAIN
FPL TRANS

N

0 10 50
Feet

No.	REVISIONS	DATE	BY

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P.E. NO. 67495
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5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (10)

SHEET NO. 328

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EXIST UG CATV / TO BE REMOVED
SPECTRUM

BE (23KV) / PROPOSED
FPL DIST

8" WM / PROPOSED
MANATEE CO

EXIST 2-1.25" PE W-FOC, BT / TO BE REMOVED
FRONTIER

EXIST BE (23KV) / TO BE REMOVED
FPL DIST

EXIST DIR BUR FOC / TO REMAIN
AND ADJUSTED BY CONTRACTOR
MANATEE CO SCHOOLS

44th AVENUE EAST

EXIST OE (23KV) / TO BE REMOVED
FPL DIST

8" DIP PW / PROPOSED
MANATEE CO

EXIST GUY / TO BE REMOVED
FPL DIST

2-4" PE / PROPOSED
FRONTIER

EXIST 8" PVC WM / TO BE REMOVED
MANATEE CO

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

PROP RW LINE

N

0 10 50
Feet

MATCHLINE STA. 229+50.00

MATCHLINE STA. 236+50.00

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST 2-BT / TO BE REMOVED
FRONTIER

EXIST 8" PVC FM / TO BE REMOVED
MANATEE CO

10" FM / PROPOSED
MANATEE CO

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST RW LINE

BRADEN RIVER
UNITED METHODIST
CHURCH

MATCHLINE
STA. 924+50.00

(OLD CARUSO ROAD)
60TH STREET EAST

EXIST 1.25" PE W-FOC,PEDESTAL /
TO REMAIN & ADJUSTED
FRONTIER

EXIST UG CATV, PEDESTAL /
TO REMAIN & ADJUSTED
SPECTRUM

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST RW LINE

EXIST BT / TO BE REMOVED
FRONTIER

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST OE (138KV) / TO REMAIN
FPL TRANS

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (11)

SHEET NO. 329

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Floyd, Cindy 6/11/2019 9:00:21 AM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD01.dwg

MATCHLINE STA. 236+50.00

44th AVENUE EAST

62nd STREET EAST

EXIST 6" WM / TO REMAIN
MANATEE CO

EXIST 1.25"PE W-FOC / TO REMAIN
FRONTIER

6" DI RCW / PROPOSED
MANATEE CO

2-4" PE W-FOC / PROPOSED
FRONTIER

EXIST 2-BT / TO BE REMOVED
FRONTIER

EXIST 2-1.25" PE W-FOC / TO BE REMOVED
FRONTIER

2-1.25" PE W-FOC / PROPOSED
FRONTIER

8" WM / PROPOSED
MANATEE CO

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

EXIST 1.25" PE / TO BE REMOVED
FRONTIER

EXIST 8" PVC WM / TO BE REMOVED
MANATEE CO

PROP RW LINE

N

0 10 50
Feet

237 238 239 240 241 242 243

TH 159 TH 160 TH 161

TH 42 TH 43 TH 44 TH 45 TH 46 TH 47 TH 48 TH 49 TH 50 TH 51

EXIST RW LINE

EXIST BT/ TO BE REMOVED
FRONTIER

EXIST 1.25"PE W-FOC / TO REMAIN
FRONTIER

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

EXIST OE (138KV) / TO REMAIN
FPL TRANS

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST PED/ TO REMAIN
FRONTIER

EXIST BT/ TO REMAIN
FRONTIER

MATCHLINE STA. 243+50.00

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

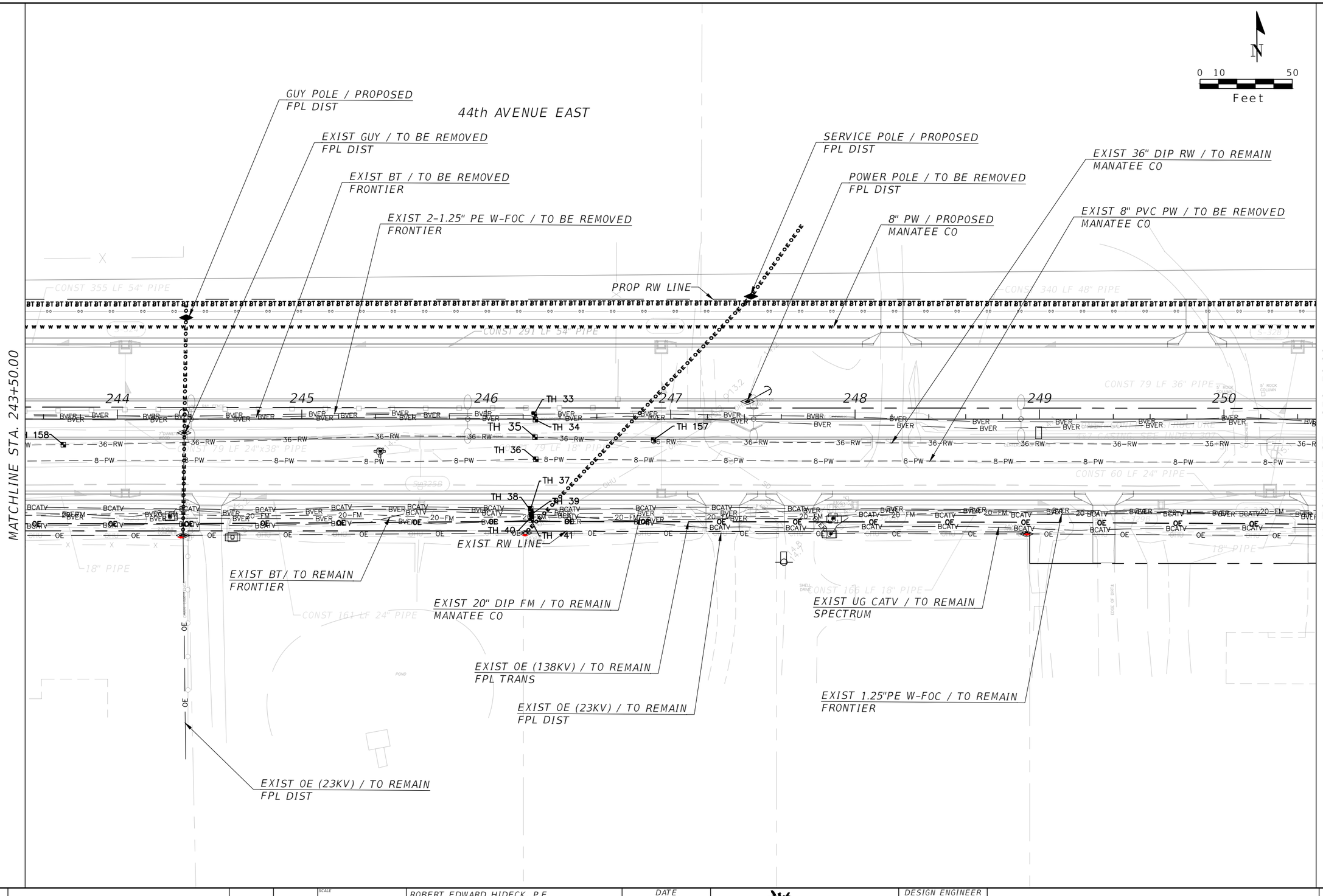
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

UTILITY ADJUSTMENT (12)

SHEET NO.: 330

Floyd, Cindy 6/11/2019 9:02:32 AM S:\Projects_RDWY\ProjFdot\ProjFDOT\V8\60460213000\roadway\UTADRD01.dwg



No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (13)

SHEET NO. 331

Floyd, Cindy 6/11/2019 9:04:40 AM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD01.dwg

EXIST 6" PW / TO REMAIN
MANATEE CO

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST 1.25" PE W-FOC / TO BE REMOVED
FRONTIER

EXIST 6" PW / TO BE REMOVED
MANATEE CO

8" PW / PROPOSED
MANATEE CO

EXIST 1.25" PE W-FOC, BT / TO BE REMOVED
FRONTIER

44th AVENUE EAST

65th STREET EAST

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

8" DI RCW / PROPOSED
MANATEE CO

EXIST 8" PVC PW / TO BE REMOVED
MANATEE CO

20" FM / PROPOSED
MANATEE CO

PROP RW LINE

EXIST RW LINE

EXIST 0E (23KV) / TO REMAIN
FPL DIST

EXIST 0E (138KV) / TO REMAIN
FPL TRANS

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST BT / TO REMAIN
FRONTIER

FIBER SPLICE BOX / TO BE ADJUSTED
FRONTIER

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

MATCHLINE STA. 250+50.00

MATCHLINE STA. 257+50.00

0 10 50
Feet

N

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
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CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENT (14)

SHEET NO. 332

Floyd, Cindy
6/11/2019 9:06:49 AM
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44th AVENUE EAST

44th AVENUE PLAZA EAST

MATCHLINE STA. 257+50.00

MATCHLINE STA. 264+50.00

EXIST 8" PW / TO BE REMOVED
MANATEE CO

8" PW / PROPOSED
MANATEE CO

EXIST 1.25" PE W-FOC / TO BE REMOVED
FRONTIER

EXIST BT / TO BE REMOVED
FRONTIER

PROP RW LINE

2-4" PE / PROPOSED
FRONTIER

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

EXIST HYD / TO BE REMOVED
MANATEE CO

EXIST UG CATV / TO BE REMOVED
SPECTRUM

0E (23KV) / PROPOSED
FPL DIST

EXIST POWER POLE / TO BE REMOVED
FPL TRANS

POWER POLE / PROPOSED
FPL TRANS

EXIST 0E (23KV) / TO REMAIN
FPL DIST

1.25" PE / PROPOSED
FRONTIER

3-1.5" UG CATV / PROPOSED
SPECTRUM

EXIST RW LINE

0E (138KV) / TO BE RELOCATED
FPL TRANS

0E (23KV) / TO BE RELOCATED
FPL DIST

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST PULL BOX / TO BE RELOCATED
FRONTIER

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST 0E (138KV) / TO REMAIN
FPL TRANS

EXIST 0E (23KV) / TO REMAIN
FPL DIST

N

0 10 50
Feet

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
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P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

UTILITY ADJUSTMENT (15)

SHEET NO.
333

Floyd, Cindy
6/11/2019 9:09:02 AM
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CARUSO RD

0 10 50
Feet

8" DI PW / PROPOSED
MANATEE CO

EXIST GUY / TO BE ADJUSTED
FPL DIST

EXIST 1.25"PE W-FOC /
FRONTIER

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

EXIST OT / TO BE REMOVED
FRONTIER

PROP. R/W LINE

EXIST DIR BUR FOC /
MANATEE CO

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

MATCHLINE STA. 307+00.00

CURVE NO.
CARUSO RD (14)

4" DI FM / PROPOSED
MANATEE CO

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST 8" SAN / TO REMAIN
MANATEE CO

EXIST OE (23KV) / TO REMAIN
FPL DIST

1.25" PE W-COPPER / PROPOSED
FRONTIER

EXIST OT / TO REMAIN
FRONTIER

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST 8" WM / TO REMAIN
MANATEE CO

EXIST 8" SAN / TO REMAIN
MANATEE CO

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST OTV / TO REMAIN
SPECTRUM

EXIST 8" PE RW / TO REMAIN
MANATEE CO

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County Florida
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

UTILITY ADJUSTMENTS (16)

SHEET NO.
334

Floyd, Cindy
2/5/2019 2:48:20 PM
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CARUSO RD

0 10 50
Feet

MATCHLINE STA. 307+00.00

MATCHLINE STA. 314+00.00

8" PVC SAN / PROPOSED
MANATEE CO

PROP. R/W LINE

PROP RW

BEGIN CONSTRUCTION
DITCH EL. 11.50

CONST 290 LF 18" PIPE

CURVE NO.
BL CARUSO RD (14)

911 912 913 914 915

308 309 310 311 312 313

414 415 416

℄ OLD CARUSO

℄ CONST. CARUSO

EXIST 8" SAN / TO REMAIN
MANATEE CO

EXIST 1.25" PE W-FOC /
FRONTIER

EXIST OT / TO BE REMOVED
FRONTIER

EXIST OTV / TO REMAIN
SPECTRUM

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

EXIST 8" WM / TO REMAIN
MANATEE CO

1.25" PE W-COPPER / PROPOSED
FRONTIER

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

8" PVC SAN/ PROPOSED
MANATEE CO

EXIST DIR BUR FOC /
MANATEE CO SCHOOLS

PROP RW

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

EXIST GUY / TO BE RELOCATED
FPL DIST

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY
DRAWN BY
CHECKED BY

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5110 EISENHOWER BOULEVARD, SUITE 310
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENTS (17)

SHEET NO. 335

Floyd, Cindy 6/14/2019 7:40:00 AM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD02.dwg

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0 10 50
Feet

CARUSO RD

PROP. R/W LINE

MATCHLINE STA. 314+00.00

MATCHLINE STA. 321+00.00

CURVE NO. 14
BL CARUSO RD

CURVE NO. 13
BL CARUSO RD

314 315 316 317 318 319 320 321

CONST 115 LF 24" PIPE

CONST 200 LF 24" PIPE

CONST 133 LF 30" PIPE

CONST 295 LF 24" PIPE

CONST 150 LF 30" PIPE

18" PIPE

S-201B S-201 S-202 S-203 S-201A S-202A

℄ CONST. CARUSO

GRADE TO DRAIN

PROP. R/W LINE

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

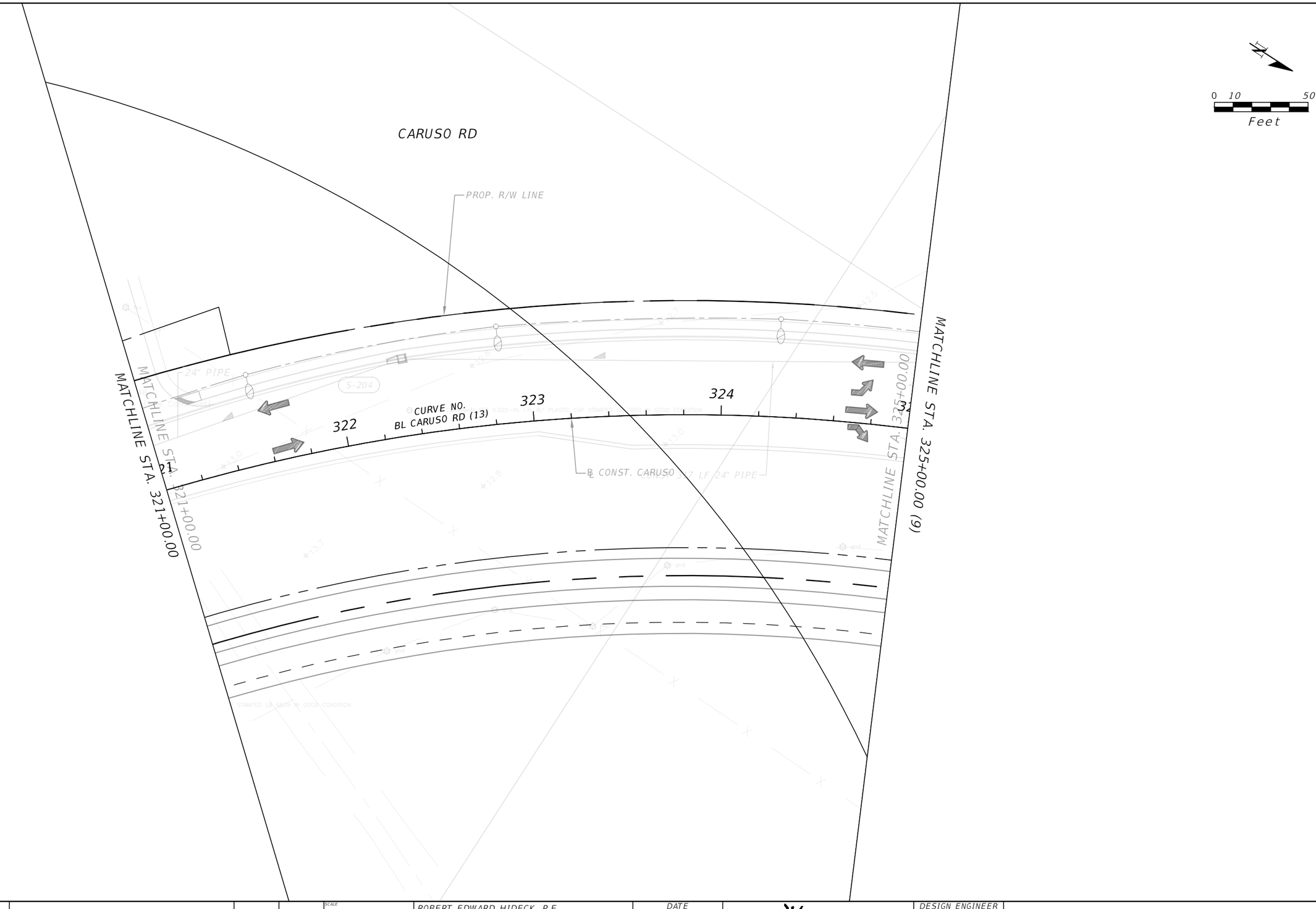
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENTS (18)

SHEET NO. 336

Floyd, Cindy 2/5/2019 2:42:14 PM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD02.dwg



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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.
67495

UTILITY ADJUSTMENTS (19)

SHEET NO.
337

Floyd, Cindy
2/5/2019 2:39:38 PM
S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD02.dwg

MORGAN JOHNSON ROAD

43RD AVE EAST

41ST AVE EAST

MATCHLINE STA. 502+00.00 (9)

MATCHLINE STA. 507+00.00

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST OT / TO REMAIN
FRONTIER

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST UG CATV / TO REMAIN
SPECTRUM

EXIST 2-BT / TO BE REMOVED
FRONTIER

EXIST 8" WM / TO BE REMOVED
MANATEE CO

8" WM / PROPOSED
MANATEE CO

36" DI WM / PROPOSED
MANATEE CO

EXIST 2-BT / TO REMAIN
FRONTIER

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST RW

EXIST RW

CURVE NO.
BL MORGAN JOHNSON (12)

N 00° 51' 03" E

57th STREET EAST
MORGAN JOHNSON ROAD

EXIST. 8" FM / TO REMAIN
MANATEE COUNTY

EXIST BT / TO REMAIN
FRONTIER

EXIST 8" PVC FM / TO REMAIN
MANATEE CO

END CONST.
STA. 504+00.00
MATCH EXIST.

EXIST 3-1.25" PE W-FOC / TO REMAIN
FRONTIER

4" PE W-FOC / PROPOSED
FRONTIER

EXIST DIR BUR FOC /
MANATEE CO SCHOOLS

TH 79 TH 80 TH 81 TH 82

502 503 504 505 506

126

N

0 10 50
Feet

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
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ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

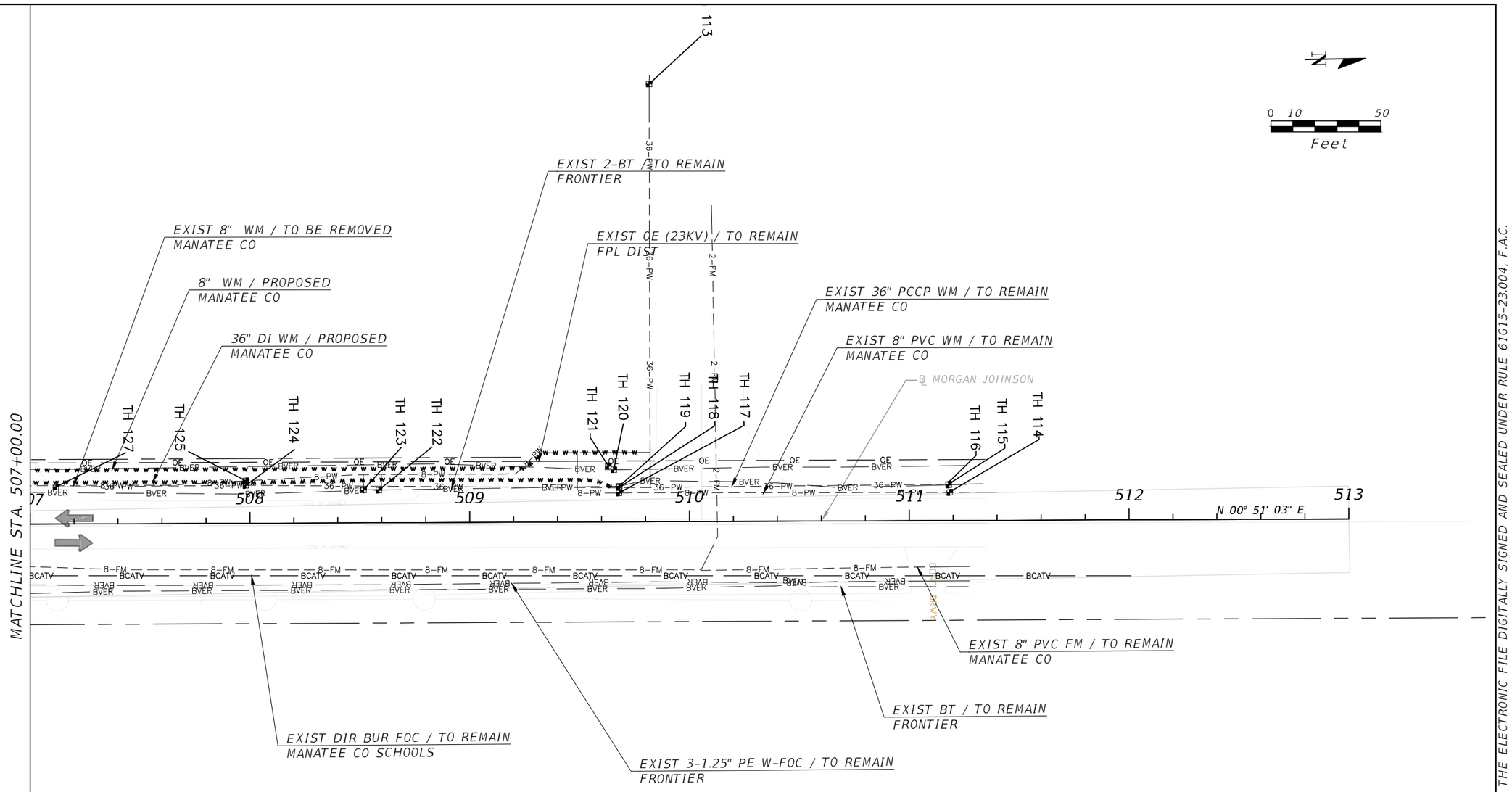
Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO. 67495

UTILITY ADJUSTMENTS (20)

SHEET NO. 338

Floyd, Cindy 2/5/2019 2:36:54 PM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD02.dwg



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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
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Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

UTILITY ADJUSTMENTS (20A)

SHEET NO.: 339

Floyd, Cindy
2/5/2019 2:33:23 PM
S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD02.dwg

CARUSO RD

8" PVC SAN / PROPOSED
MANATEE CO

PROP RW

CURVE NO.
BL CARUSO RD (14)

8" PVC SAN / PROPOSED
MANATEE CO

PROP RW

EXIST DIR BUR FOC /
MANATEE CO SCHOOLS

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

EXIST SAN MH / RIM TO BE ADJUSTED
MANATEE COUNTY

EXIST GUY / TO BE RELOCATED
FPL DIST

EXIST OT / TO BE REMOVED
FRONTIER

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

BL CARUSO RD
RAMP (15)

OLD CARUSO RD

MATCHLINE STA. 307+00.00 (16)

MATCHLINE STA. 917+50.00 (22)

45TH AVE DR. EAST

EXIST 1.25" PE W-FOC /
TO BE REMOVED
FRONTIER

EXIST OTV / TO REMAIN
SPECTRUM

1.25" PE W-COPPER / PROPOSED
FRONTIER

EXIST 8" PW / TO REMAIN
MANATEE CO

EXIST 8" SAN / TO REMAIN
MANATEE CO

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST 2-1.25" PE W-FOC / TO REMAIN
FRONTIER

8" RCW / PROPOSED
MANATEE CO

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST OT / TO REMAIN
FRONTIER

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

0 10 50
Feet

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No.	REVISIONS	DATE	BY

SCALE: AS NOTED
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DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019
PROJECT NO.: 6086960

Manatee County Florida
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

UTILITY ADJUSTMENTS (21)

SHEET NO.: 340

Floyd, Cindy 2/5/2019 2:29:23 PM

S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD03.dwg

MATCHLINE STA. 917+50.00 (21)

MATCHLINE STA. 924+50.00 (11)

N

0 10 50

Feet

4" DI PW / PROPOSED
MANATEE CO

EXIST 20" DIP FM / TO REMAIN
MANATEE CO

EXIST DIR BUR FOC /
MANATEE CO SCHOOLS

EXIST 36" DIP RW / TO REMAIN
MANATEE CO

EXIST 4-2" PVC W-FOC / TO REMAIN
SPECTRUM

TH 71
TH 70
TH 69
TH 68
TH 151

418
419
918
919
920
921
922
923
924

OLD CARUSO RD

EXIST OTV / TO REMAIN
SPECTRUM

EXIST 1.25" PE W-FOC / TO REMAIN
FRONTIER

EXIST 8" WM / TO REMAIN
MANATEE CO

EXIST OE (23KV) / TO REMAIN
FPL DIST

EXIST UG FOC & CABLE / TO REMAIN
SPECTRUM

EXIST 8" PW / TO BE REMOVED
MANATEE CO

8" DI PW / PROPOSED
MANATEE CO

CONNECT EXIST. PIPE TO

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY: REH
DRAWN BY: CIF
CHECKED BY: CDC

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 02/2019

PROJECT NO.: 6086960

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER
ROBERT
EDWARD
HIDECK, P.E.

FL. LICENSE NO.: 67495

UTILITY ADJUSTMENTS (22)

SHEET NO.: 341

Floyd, Cindy 2/5/2019 2:27:10 PM S:\Projects_RDWY\ProjFdot\ProjFD0T\V8\60460213000\roadway\UTADRD03.dwg

Vvh No.	Station	Offset	Utility Owner	Type	Size	Material	Hub Elevation	Utility Cover	Top of Utility Elev
1	266+01.35	-68.9	Private	Irrigation	2"	PVC	23.12'	2.95'	20.17'
2	266+01.35	-68.6	Spectrum	CATV	3 - 2"	PVC	23.10'	2.97'	20.13'
3	266+01.32	-55.5	Manatee County	FM	8"	PVC	23.49'	5.10'	18.39'
4	265+89.29	51.6	Spectrum	CATV	2"	PVC	22.76'	4.30'	18.46'
5	265+86.26	52.6	Manatee County	Water	UNK	PVC	22.86'	6.10'	16.76'
6	263+08.12	34.9	Manatee County	RCW	12"	PVC	20.45'	4.91'	15.54'
7	259+62.84	-10.0	Frontier	FOC	1 1/4"	PE	17.75'	3.95'	13.80'
8	259+63.07	-2.5	Frontier	BT	4"	PVC	17.55'	2.48'	15.07'
9	259+63.90	3.0	Manatee County	RWM	30"	DIP Wrap	17.64'	4.93'	12.71'
10	259+65.18	12.1	Manatee County	Water	8"	PVC	19.24'	2.62'	16.62'
11	259+70.88	38.4	Spectrum	CATV	2 - 2"	PVC	17.76'	2.15'	15.61'
12	259+71.26	38.8	Frontier	FOC	1 1/4"	PE	17.95'	2.60'	15.35'
13	259+71.51	40.3	Manatee County	FM	20"	DIP	17.58'	4.00'	13.58'
14	259+71.53	44.0	Spectrum	CATV	3 - 2"	PVC	16.87'	2.50'	14.37'
15	256+17.59	0.3	Frontier	FOC	1 1/4"	PE	15.31'	3.09'	12.22'
16	256+17.84	8.4	Frontier	BT	4"	PVC	15.35'	3.06'	12.29'
17	256+17.53	14.5	Manatee County	RWM	30"	DIP Wrap	15.31'	4.02'	11.29'
18	256+18.44	24.0	Manatee County	Water	8"	PVC	16.21'	1.82'	14.39'
19	256+27.76	50.6	Frontier	FOC	1 1/4"	DUCT-SYS	15.92'	2.25'	13.67'
20	256+27.92	52.1	Manatee County	FM	20"	DIP	15.73'	3.50'	12.23'
21	256+27.65	54.7	Spectrum	CATV	2 - 2"	PVC	15.38'	2.43'	12.95'
22	256+27.68	58.1	Spectrum	CATV	3 - 2"	PVC	15.13'	1.91'	13.22'
23	251+19.14	1.5	Frontier	FOC	1 1/4"	PE	15.32'	2.05'	13.27'
24	251+18.90	2.6	Frontier	BT	4"	PVC	14.71'	1.79'	12.92'
25	251+19.19	13.8	Manatee County	RWM	30"	DIP Wrap	13.75'	3.34'	10.41'
26	251+20.77	23.5	Manatee County	Water	8"	PVC	15.18'	1.82'	13.36'
27	251+20.15	50.2	Manatee County	FM	20"	DIP	15.12'	3.76'	11.36'
28	251+19.99	51.6	Frontier	BT	1"	DB Cable	15.06'	1.76'	13.30'
29	251+18.91	53.1	Spectrum	CATV	2 - 2"	PVC	14.75'	1.90'	12.85'
30	251+19.96	53.6	Frontier	FOC	1 1/4"	PE	14.65'	2.58'	12.07'
31	251+19.94	53.8	Frontier	BT	1"	DB Cable	14.64'	0.70'	13.94'
32	251+19.62	58.1	Spectrum	CATV	3 - 2"	PVC	13.27'	1.38'	11.89'
33	246+26.05	-2.7	Frontier	BT / FOC	1 - 2" PE / 1"	DB Cable	13.70'	2.41'	11.29'
34	246+26.68	0.4	Frontier	BT	4"	PVC	13.48'	2.63'	10.85'
35	246+26.47	9.8	Manatee County	RWM	30"	DIP	13.44'	4.62'	8.82'
36	246+26.90	21.8	Manatee County	Water	8"	PVC	15.27'	2.27'	13.00'
37	246+24.14	48.6	Spectrum	CATV	3 - 2"	PVC	15.17'	1.75'	13.42'
38	246+24.25	49.8	Frontier	FOC	1 1/4"	PE	14.87'	2.36'	12.51'
39	246+24.46	51.7	Spectrum	CATV	2 - 2"	PVC	14.49'	2.15'	12.34'
40	246+24.50	53.0	Manatee County	FM	20"	DIP	14.23'	4.19'	10.04'
41	246+24.45	54.9	Frontier	BT	1 1/2"	DB Cable	13.90'	2.81'	11.09'
42	241+28.28	-1.1	Frontier	BT	1"	DB Cable	14.62'	3.44'	11.18'
43	241+26.23	0.2	Frontier	BT	4"	PVC	14.72'	2.43'	12.29'
44	241+26.40	1.5	Frontier	FOC	2 - 1"	PE	14.70'	2.65'	12.05'
45	241+27.99	14.4	Manatee County	RWM	30"	DIP	14.76'	4.90'	9.86'
46	241+27.84	22.2	Manatee County	Water	8"	PVC	15.34'	2.20'	13.14'
47	241+29.49	51.5	Manatee County	FM	20"	DIP	14.30'	2.66'	11.64'
48	241+29.63	52.3	Spectrum	CATV	2 - 2"	PVC	14.24'	0.92'	13.32'
49	241+29.63	52.9	Frontier	FOC	1 1/4"	PE	14.18'	2.63'	11.55'
50	241+29.69	54.0	Frontier	BT	1 1/2"	DB Cable	13.98'	2.36'	11.62'
51	241+29.99	55.4	Spectrum	CATV	3 - 2"	PVC	13.74'	2.44'	11.30'
52	236+29.98	-2.5	Frontier	BT	1"	DB Cable	14.07'	2.20'	11.87'
53	236+29.75	-0.2	Frontier	BT	4"	PVC	14.17'	3.00'	11.17'
54	236+29.92	2.1	Frontier	FOC	2 - 2"	PE	14.13'	1.80'	12.33'
55	236+28.66	11.9	Manatee County	RWM	30"	DIP	13.04'	3.40'	9.64'
56	236+29.08	21.4	Manatee County	Water	8"	PVC	14.49'	2.40'	12.09'
57	236+32.48	51.7	Manatee County	FM	20"	DIP	14.21'	3.80'	10.41'
58	236+32.44	53.0	Frontier	FOC	1 1/4"	PE	14.02'	2.30'	11.72'
59	236+32.30	54.5	Spectrum	CATV	3 - 2"	PVC	13.86'	2.25'	11.61'
60	236+32.41	55.7	Spectrum	CATV	2"	PVC	13.72'	2.35'	11.37'
61	236+32.25	60.2	Frontier	BT	2"	DB Cable	13.45'	1.85'	11.60'
62	259+71.52	42.7	Frontier	BT	1 1/2"	DB Cable	17.19'	3.55'	13.64'
63	256+23.44	54.2	Frontier	BT	1 1/2"	DB Cable	15.55'	2.41'	13.14'
64	229+61.57	20.1	Manatee County	Water	8"	PVC	13.87'	3.10'	10.77'
65	229+61.40	-0.1	Frontier	FOC	2 - 1 1/4"	PE	13.82'	2.01'	11.81'
66	229+61.17	-0.4	Manatee County	Water	UNK		13.76'	5.90'	7.86'
67	229+59.09	-3.4	Frontier	BT	1/2"	DB Cable	13.58'	1.39'	12.19'
68	923+33.95	-29.8	Manatee County	RWM	30"	DIP	13.72'	5.25'	8.47'
69	923+31.75	-33.5	Spectrum	CATV	3 - 2"	PVC	13.25'	3.06'	10.19'
70	923+31.65	-35.1	Spectrum	CATV	2"	PVC	13.10'	2.97'	10.13'
71	923+31.44	-37.6	Manatee County	FOC	2"	PE	13.00'	3.27'	9.73'
72	241+27.99	14.4	Manatee County	Water	8"	PVC	13.69'	3.97'	9.72'
73	230+02.07	53.4	Manatee County	FM	8"	PVC	13.72'	3.07'	10.65'
74	230+02.40	57.1	Frontier	BT	4"	PVC	13.57'	2.54'	11.03'
75	230+04.17	61.2	Spectrum	CATV	3 - 2"	PVC	13.35'	2.85'	10.50'
76	230+04.44	62.8	Frontier	BT	1 1/4"	DB Cable	13.30'	3.36'	9.94'
77	230+01.59	70.4	Spectrum	CATV	2"	PVC	12.94'	3.72'	9.22'
78	229+57.50	5.6	Manatee County	FOC	2"	PE	13.32'	5.50'	7.82'
79	502+90.57	-15.9	Manatee County	Water	8"	PVC	13.90'	3.05'	10.85'
80	503+00.22	-23.7	Frontier	BT	1"	DB Cable	13.52'	2.40'	11.12'
81	503+00.87	-18.1	Manatee County	Water	8"	PVC	13.73'	2.54'	11.19'
82	503+02.32	-14.8	Frontier	BT	4"	PVC/1 1/2" DB Cable	13.89'	3.43'	10.46'
83	196+71.82	-192.0	Spectrum	CATV	2"	PVC	8.36'	2.05'	6.31'
84	196+64.90	-162.7	FP&L	BE	6"	PVC	8.03'	2.85'	5.18'
85	196+58.58	-150.2	Spectrum	CATV	2"	PVC	7.67'	1.87'	5.80'
86	191+22.69	-41.7	Frontier	FOC			14.45'	2.13'	12.32'

Vvh No.	Station	Offset	Utility Owner	Type	Size	Material	Hub Elevation	Utility Cover	Top of Utility Elev
87	191+22.26	-44.3	Frontier	BT	1"	DB Cable	14.82'	3.85'	10.97'
88	191+22.28	-45.1	Spectrum	CATV	2"	PVC	14.90'	2.38'	12.52'
89	185+94.49	41.7	Frontier	FOC	2 - 1"	PE	15.76'	2.40'	13.36'
90	181+24.49	55.9	Frontier	FOC	4"	PVC	16.06'	2.65'	13.41'
91	175+39.44	55.8	Frontier	FOC	4"	PVC	16.48'	2.56'	13.92'
92	175+44.48	37.4	Manatee County	Water	30"	DIP	15.50'	2.40'	13.10'
93	171+33.59	36.7	Manatee County	Water	30"	DIP	15.54'	2.87'	12.67'
94	171+33.16	56.1	Frontier	FOC	4"	PVC	16.04'	2.50'	13.54'
95	191+14.30	-75.4	Manatee County	Water	36"	DIP	14.72'	5.36'	9.36'
96	191+14.20	-76.2	Frontier	FOC	1"	PE	14.51'	2.18'	12.33'
97	185+76.30	8.1	Frontier	FOC	1"	PE	15.43'	1.98'	13.45'
98	182+32.32	71.3	Manatee County	Water	8"	PVC	16.74'	4.84'	11.90'
99	181+94.33	66.2	Manatee County	FM	6"	PVC	16.47'	4.34'	12.13'
100	181+78.32	58.1	Manatee County	FM	6"	PVC	16.57'	4.25'	12.32'
101	180+90.95	13.7	Manatee County	Water	36"	DIP	15.80'	4.69'	11.11'
102	180+90.78	11.7	Frontier	FOC	1 1/4"	PE	15.52'	2.34'	13.18'
103	175+45.76	10.5	Frontier	FOC	1 1/4"	PE	15.95'	2.70'	13.25'
104	174+46.57	12.8	Spectrum	CATV	2 - 2"	PVC	15.67'	1.93'	13.74'
105	171+34.97	11.8	Frontier	FOC	1 1/4"	PE	15.16'	2.11'	13.05'
106	167+66.47	5.4	Spectrum	CATV	2"	PVC	15.25'	1.71'	13.54'
107	167+66.33	-1.5	Frontier	BT	1"	DB Cable	14.80'	2.46'	12.34'
108	167+66.15	36.5	Manatee County	Water	30"	DIP	14.89'	2.09'	12.80'
109	167+66.35	55.8	Frontier	FOC	1 1/4"	PE	15.38'	2.60'	12.78'
110	307+43.89	5.4	Manatee County	FM	16"	PVC	13.48'	3.82'	9.66'
111	307+45.15	-0.3	Manatee County	RWM	30"	PVC	12.68'	3.30'	9.38'
112	307+45.50	-2.4	Manatee County	FOC	2"	PE	12.88'	3.98'	8.90'
113	509+82.38	-199.2	Manatee County	Water	36"	PVC	8.13'	2.82'	5.31'
114	511+18.43	-12.9	Manatee County	Water	8"	PVC	15.31'	3.16'	12.15'
115	511+18.01	-16.3	Frontier	BT	4"	PVC	15.29'	2.82'	12.47'
116	511+17.94	-16.6	Manatee County	Water	36"	RCP	15.28'	4.96'	10.32'
117	509+68.04	-13.2	Manatee County	Water	8"	PVC	14.57'	3.00'	11.57'
118	509+68.05	-15.7	Manatee County	Water	36"	RCP	14.40'	4.06'	10.34'
119	509+68.09	-16.2	Frontier	BT	4"	PVC / 2" DB Cable	14.32'	2.40'	11.92'
120	509+65.63	-23.8	Frontier	BT	2"	DB Cable	14.02'	3.84'	10.18'
121	509+63.13	-25.5	Manatee County	Water	8"	PVC	13.90'	2.80'	11.10'
122	508+58.74	-14.9	Manatee County	Water (EI)	8"	DIP	14.37'	2.76'	11.61'
123	508+51.79	-15.0	Manatee County	Water (EI)	8"	DIP	14.35'	2.74'	11.61'
124	507+98.21	-17.3	Manatee County	Water	36"	RCP	13.96'	3.60'	10.36'
125	507+98.28	-19.3	Manatee County	Water	8"	PVC	13.82'	2.68'	11.14'
126	506+61.82	-214.4	Manatee County	Water	8"	PVC	7.05'	3.20'	3.85'
127	507+11.75	-16.9	Manatee County	Water	36"	RCP	13.40'	3.00'	10.40'
128	167+86.60	56.3	Frontier	FOC	4"	PVC	16.00'	2.54'	13.46'
129	169+64.00	-51.2	Spectrum	CATV	2"	PVC	15.74'	1.56'	14.18'
130	169+63.60	-47.6					15.67'	N/A	N/A
131	172+58.30	-38.3	Spectrum	CATV	2"	PVC	14.87'	1.71'	13.16'
132	172+83.50	-43.1	Frontier	FOC	4"	PVC	15.44'	2.74'	12.70'
133	180+08.60	-48.5	Manatee County	Water	36"	DIP	16.10'	7.90'	8.20'
134	180+11.40	-48.3	Manatee County	Water	30"	DIP	16.13'	5.26'	10.87'
135	180+20.20	-48.4	Manatee County	Water	36"	DIP	16.04'	8.72'	7.32'
136	180+47.50	56.2	Frontier	FOC	4"	PVC	16.18'	2.81'	13.37'
137	190+75.00	-66.2	Manatee County	Water	30"	RCP	15.50'	4.66'	10.84'
138	190+74.60	-67.3	Frontier	FOC	1 1/4"	PE	15.29'	2.54'	12.75'
139	191+91.40	-88.8	Manatee County	Water	36"	DIP	14.78'	6.71'	8.07'
140	192+59.20	107.4	Spectrum	CATV	2"	PVC	15.05'	1.59'	13.46'
141	192+63.70	107.4	Manatee County	Water	30"	DIP	15.06'	4.13'	10.93'
142	192+89.00	102.5	Frontier	FOC	1 1/4" & 1 1/2"	PE	14.57'	2.59'	11.98'
143	192+93.70	100.9	Frontier	BT	3/4"	DOUBLE CABLE	12.38'	1.60'	10.78'
144	219+97.30	-108.8	Manatee County	Water	8"	PVC	13.75'	3.30'	10.45'
145	219+79.60	-78.9	Manatee County	FM	8"	PVC	13.64'	3.35'	10.29'
146	224+42.60	-33.2	Manatee County	FOC	2"	PE	13.19'	3.55'	9.64'
147	226+81.30	-7.7	Manatee County	FOC	2"	PE	13.48'	2.29'	11.19'
148	227+04.70	42.5	Manatee County	FM	8"	PVC	14.12'	3.33'	10.79'
149	230+19.20	-0.3	Frontier	FOC	1 1/4"	PE	13.63'	1.95'	11.68'
150	230+02.80	24.2	Manatee County	Water	8"	PVC	14.16'	3.42'	10.74'
151	232+50.10	167.4	Manatee County	Water	8"	PVC	14.53'	2.80'	11.73'
152	232+87.10	11.5	Manatee County	RWM	36"	DIP	12.77	10.10'	2.67'
153	232+39.50	6.8	Manatee County	RWM	36"	DIP	11.26'	7.88'	3.38'
154	232+03.50	74.5	Manatee County	RWM	36"	DIP	14.56'	7.69'	6.87'
155	232+79.90	51.3	Manatee County	FM	20"	DIP	14.55'	5.00'	9.45'
156	250+74.80	13.6	Manatee County	RWM	36"	DIP	13.92'	3.54'	10.38'
157	246+89.50	11.0	Manatee County	RWM	36"	DIP	13.32'	5.59'	7.73'
158	243+69.50	13.6	Manatee County	RWM	36"	DIP	14.08'	4.44'	9.64'
159	240+40.40	13.5	Manatee County	RWM	36"	DIP	14.68'	5.06'	9.62'
160	240+11.30	-23.8	Manatee County	Water	6"	PVC	14.11'	2.42'	11.69'
161	237+96.00	12.3	Manatee County	RWM	36"	DIP	13.31'	3.70'	9.61'
162	251+57.40	51.2	Manatee County	FM	20"	DIP	14.74'	3.43'	11.31'
163	253+49.50	14.3	Manatee County	RWM	36"	DIP	14.05'	4.28'	9.77'
164	254+57.30	-24.9	Manatee County	Water	6"	PVC	14.40'	1.53'	12.87'
165	258+61.70	49.3	Manatee County	FM	20"	DIP	17.67'	3.62'	14.05'
166	259+42.20	44.0	Manatee County	FM	20"	DIP	17.56'	3.78'	13.78'
167	260+34.40	-6.1	Manatee County	RWM	36"	DIP	19.23'	5.45'	13.78'
168	904+12.10	-20.6	Manatee County	FM	20"	PVC	9.51'	4.21'	5.30'
169	904+11.80	-28.7	Manatee County	RWM	36"	UNKNOWN	10.24'	EL EST 16'	N/A
170	901+28.60	-20.8	Manatee County	FM	20"	PVC	8.39'	2.89'	5.50'
171	901+18.40	-28.5	Manatee County	RWM	36"	UNKNOWN	9.76'	6.01'	3.75'

No.	REVISIONS	DATE	BY

SCALE: AS NOTED
DESIGNED BY:
DRAWN BY:
CHECKED BY:

ROBERT EDWARD HIDECK, P.E.
P.E. NO. 67495
HARDESTY & HANOVER, LLC
5461 W. WATERS AVE, SUITE 910
TAMPA, FL 33634
(813) 749-0823
CERTIFICATE OF AUTHORIZATION: 29741

DATE: 4/12/2017

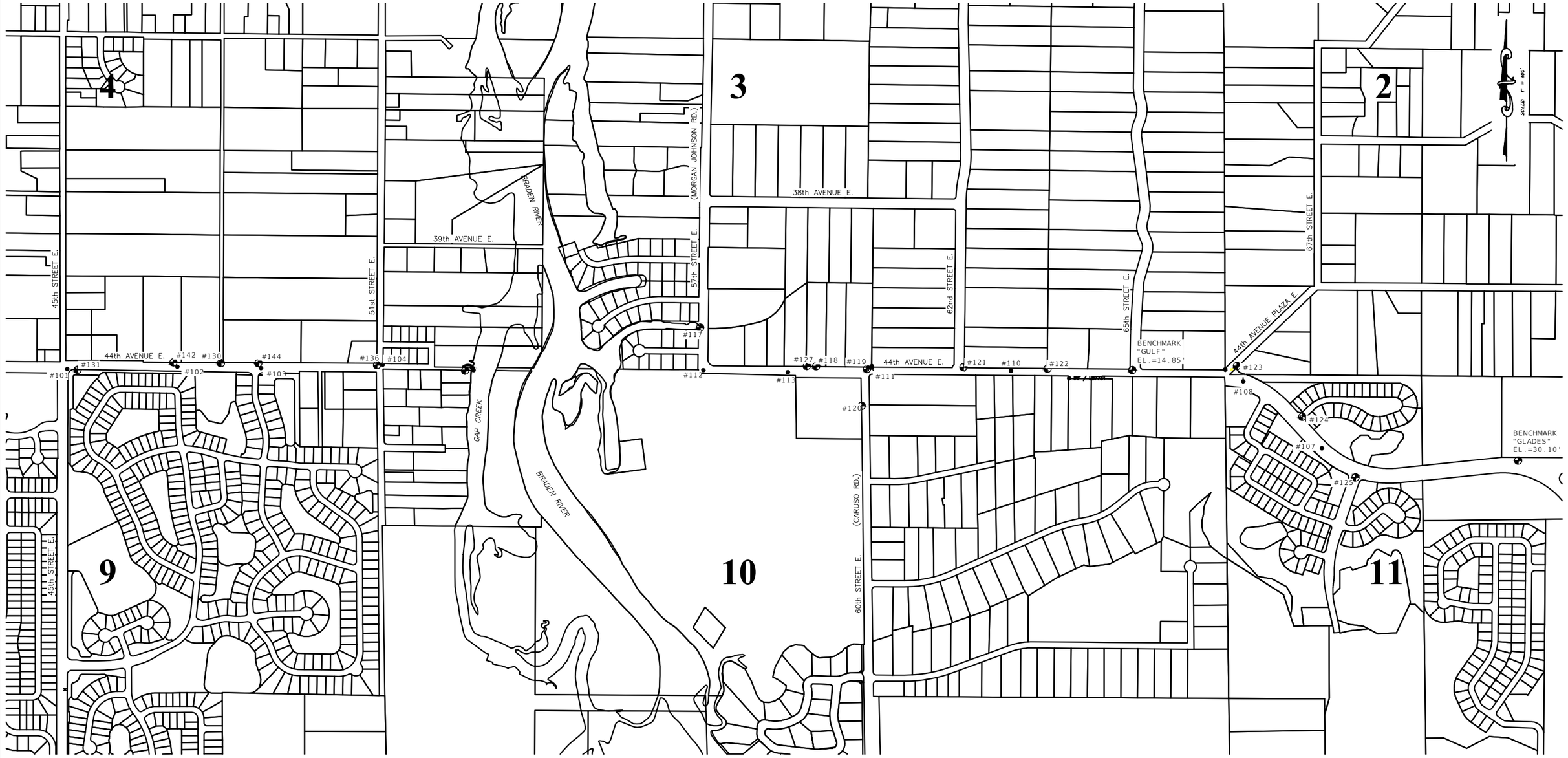
PROJECT NO.: 6086960

Manatee County FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.: 67495

VVH TEST HOLE DATA

SHEET NO.: 342



LEGEND:

■	- 4"x4" CONCRETE MONUMENT FOUND (AS NOTED)	FDEP	- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
●	- IRON MARKER FOUND/SET (AS NOTED)	(MAG)	- MAGNETIC
◉	- NAIL & DISK FOUND/SET (AS NOTED)	NAVD	- NORTH AMERICAN VERTICAL DATUM
CMF	- CONCRETE MONUMENT FOUND	GTE	- GENERAL TELEPHONE & ELECTRIC COMPANY
IRS	- IRON ROD SET (LB 6982)	WMBP	- WILSON MILLER BARTON & PEEK
NDS	- NAIL & DISK SET	CONC.	- CONCRETE
NDF	- NAIL & DISK FOUND	PED.	- PEDESTRIAN
RDF	- RIVET & DISK FOUND	XING	- CROSSING
PRM	- PERMANENT REFERENCE MONUMENT	SMH	- SANITARY MANHOLE
BM	- BENCHMARK	PID	- PARCEL IDENTIFICATION (NUMBER)
CL	- CENTERLINE	LS	- LICENSED SURVEYOR
EL.	- ELEVATION	P.S.M.	- PROFESSIONAL SURVEYOR & MAPPER
AZM	- AZIMUTH	LB	- LICENSED BUSINESS
MANCO	- MANATEE COUNTY	◇	- POWER/UTILITY/ANCHOR POLE
FDOT	- FLORIDA DEPARTMENT OF TRANSPORTATION	⚑	- SIGN

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REVISION	BY	DATE

NOTES:

1. COORDINATES ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 1983/2011 - EPOCH 2010.0000. THIS COORDINATE ORIENTATION IS DERIVED FROM THE FLORIDA PERMANENT REFERENCE NETWORK SITE "MANATEE G. STROOP CORS-ARP" (PID DL7628).
2. THE ELEVATIONS NOTED HEREON ARE IN FEET AND ARE BASED ON N.A.V.D. 1988 DATUM, THE BENCHMARKS USED AS CONTROL ARE E564 (PID-DE8707), GRADES (PID-DN9441), GULF (PID-DN9442) AND DESOTO (PID-DO1662).

SPECIFIC PURPOSE SURVEY

TO

ILLUSTRATE CONTROL POINTS 44th AVENUE BRIDGE

LOCATED IN

SECTIONS 2, 3, 4, 9, 10 & 11, TOWNSHIP 35 SOUTH, RANGE 18 EAST MANATEE COUNTY, FLORIDA

NOTE: THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

K:\Plot Files\Projects\44th Avenue Bridge\Control-SPS-SHT-01.plt

CERTIFICATE OF SURVEYOR

I, THE UNDERSIGNED PROFESSIONAL SURVEYOR & MAPPER, HEREBY CERTIFY THAT THIS RECORD OF LAND SURVEY WAS PREPARED UNDER MY DIRECT SUPERVISION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF IS A TRUE AND CORRECT REPRESENTATION OF THE LAND AS SHOWN AND DESCRIBED HEREON, AND THAT IT MEETS THE "MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA", CHAPTER 5J-17.050, OF THE FLORIDA ADMINISTRATIVE CODE.

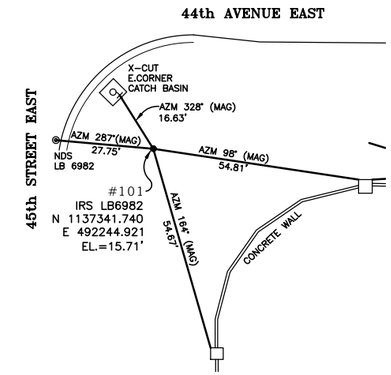
FLORIDA CERTIFICATE No. LS 4292
DATE OF CERTIFICATION 07/28/15
DATE OF FIELD SURVEY 07/21/15

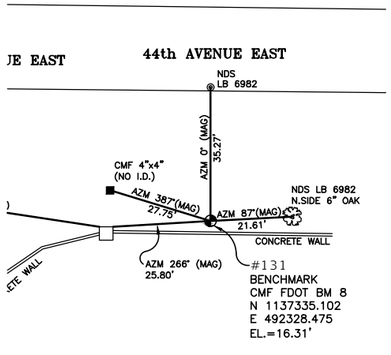
BY: _____
R.E.M. EDGERTON, P.S.M.

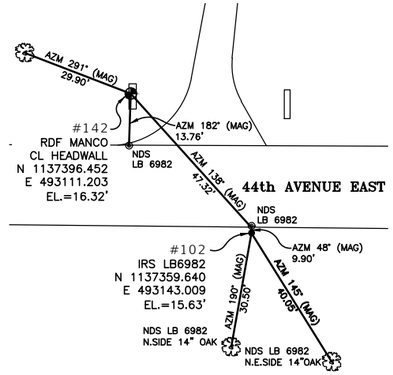
ZNS ENGINEERING
LB 0027470
ENGINEERS PLANNERS SURVEYORS
LS 0006980
LANDSCAPE ARCHITECTS ENVIRONMENTAL CONSULTANTS
LC 0000365
201 5th AVENUE DRIVE EAST BRADENTON, FL 34208
E-MAIL: ZNS@ZNSENG.COM TELEPHONE (941) 748-8080 FAX (941) 748-3316

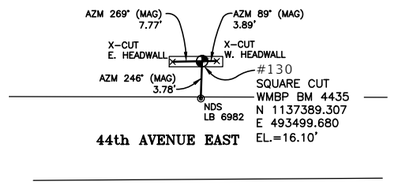
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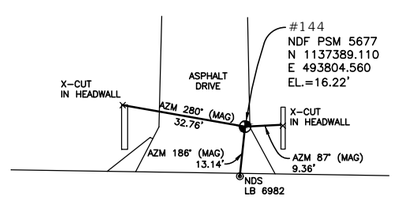
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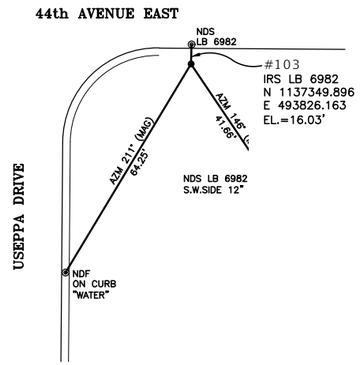


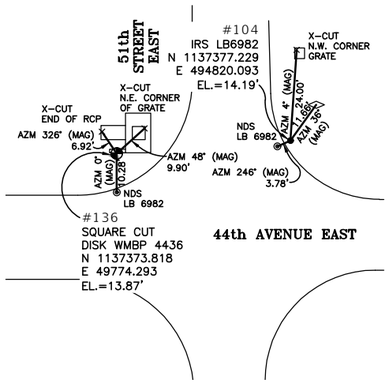


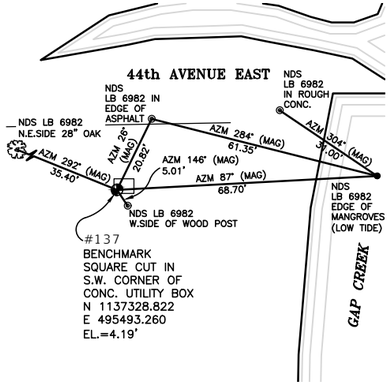


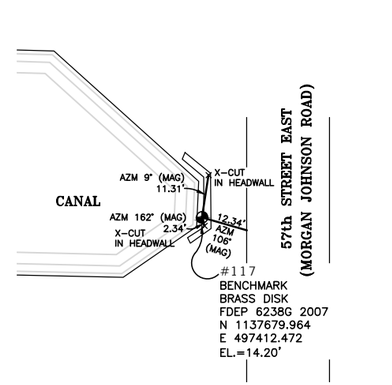


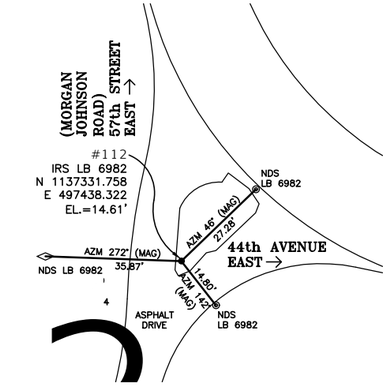


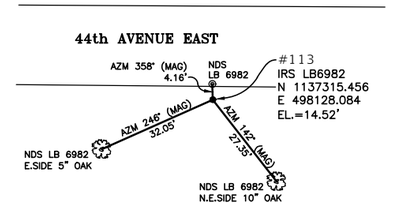


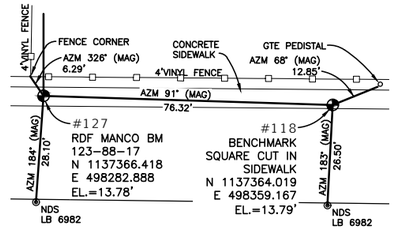


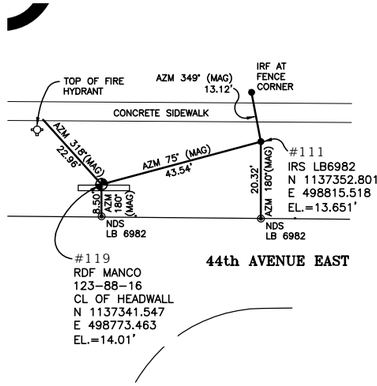


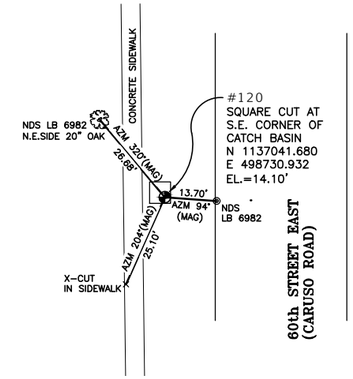


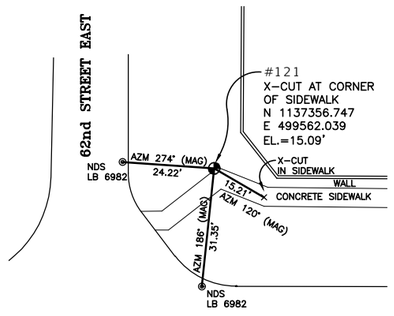


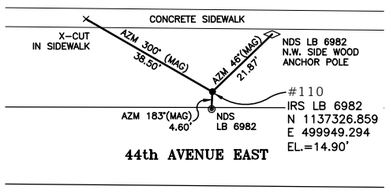


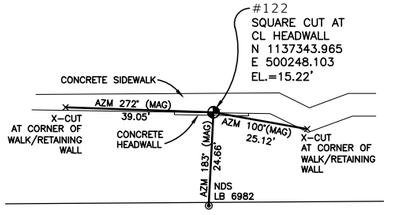


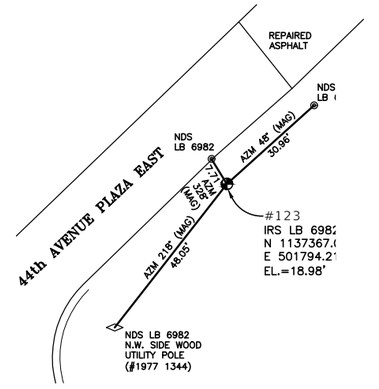


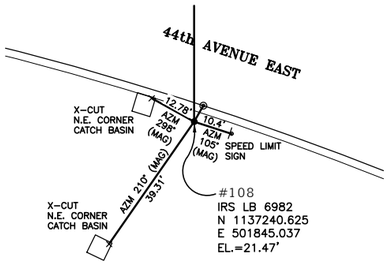


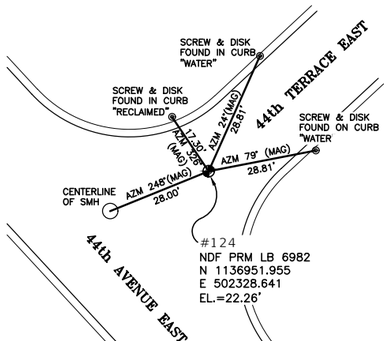


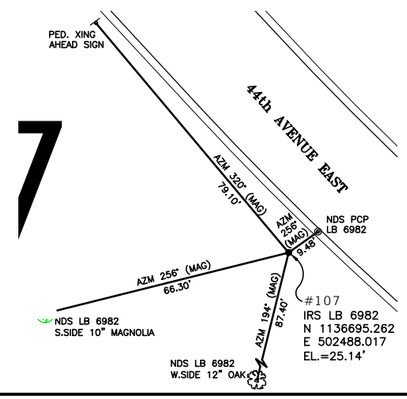


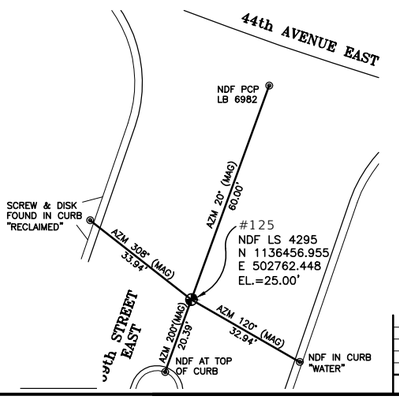












NOT TO SCALE

SPECIFIC PURPOSE SURVEY

TO

ILLUSTRATE CONTROL POINTS
44th AVENUE BRIDGE

LOCATED IN

SECTIONS 2, 3, 4, 9, 10 & 11, TOWNSHIP 35 SOUTH, RANGE 18 EAST
MANATEE COUNTY, FLORIDA

K:\Plot Files\Projects\44th Avenue Bridge\Control-SPS-SHT-02.plt

REVISION	BY	DATE

ZNS ENGINEERING
EB 0027476 LC 0000982
ENGINEERS PLANNERS SURVEYORS
LANDSCAPE ARCHITECTS ENVIRONMENTAL CONSULTANTS
LC 0000365
201 5th AVENUE DRIVE EAST BRADENTON, FL 34208
E-MAIL: ZNS@ZNSENG.COM TELEPHONE (941) 748-8080 FAX (941) 748-3316

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