COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS
LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2 - 3	SIGNATURE SHEETS
4 - 8	DRAINAGE MAPS
9	EXISTING DRAINAGE STRUCTURES
10 - 12	TYPICAL SECTIONS
13 - 17	SUMMARY OF DRAINAGE STRUCTURES
18	PROJECT LAYOUT
19	CURVE & COORDINATE DATA
20 - 21	SURVEY REFERENCE POINTS
22 - 23	BENCHMARKS
24 - 25	GENERAL NOTES
26 - 55	PLAN & PROFILE SHEETS
56	INTERSECTION DETAIL SHEET
57	BUS STOP DETAIL
58	DRAINAGE DETAIL
59	S-105 END WALLS
60	S-114A END WALLS
61 - 107	DRAINAGE STRUCTURES
108 - 133	BOX CULVERT DETAILS
134	POND PLAN SHEET
135	POND CROSS SECTIONS
136	ROADWAY SOIL SURVEY
137 - 220	ROADWAY CROSS SECTIONS
221 - 237	STORM WATER POLLUTION PREVENTION PLANS
238 - 245	TRAFFIC CONTROL PLANS
246 - 266	UTILITY ADJUSTMENT SHEETS

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

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

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/

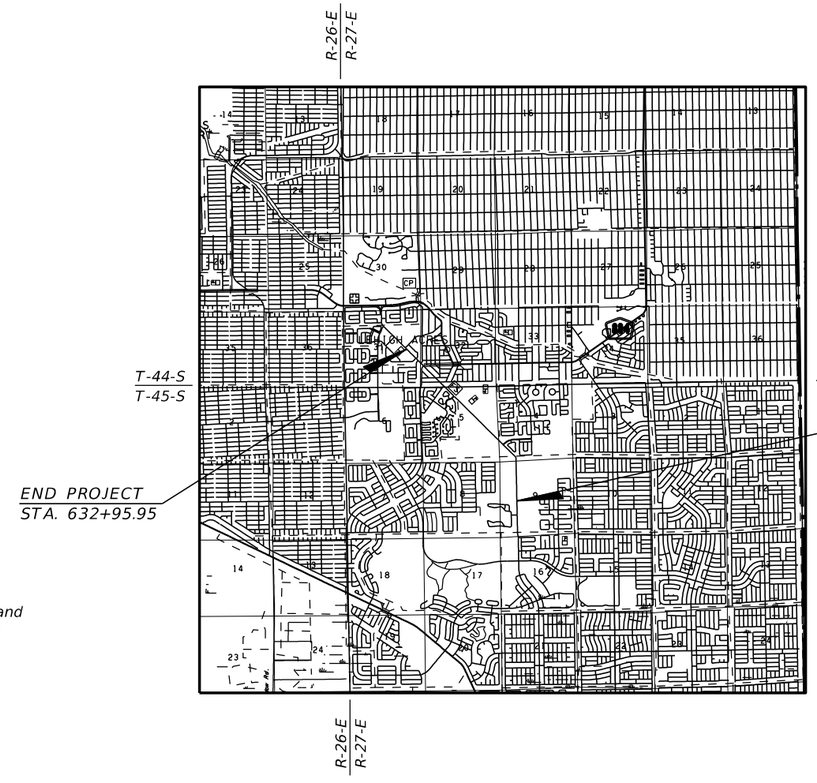
Lee County Department of Transportation Plan Specifications for Signalization, Overhead Signs, and Roadway Lighting Plans

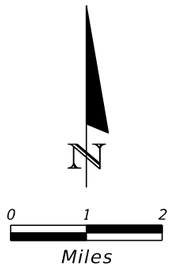
AT LEAST 72 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL CONTACT THE LOCAL MAINTENANCE ENGINEER'S OFFICE TO SECURE GENERAL USE PERMITS AND / OR OTHER PERMITS AS REQUIRED FOR WORKING WITHIN THE DEPARTMENT'S RIGHT-OF-WAY.

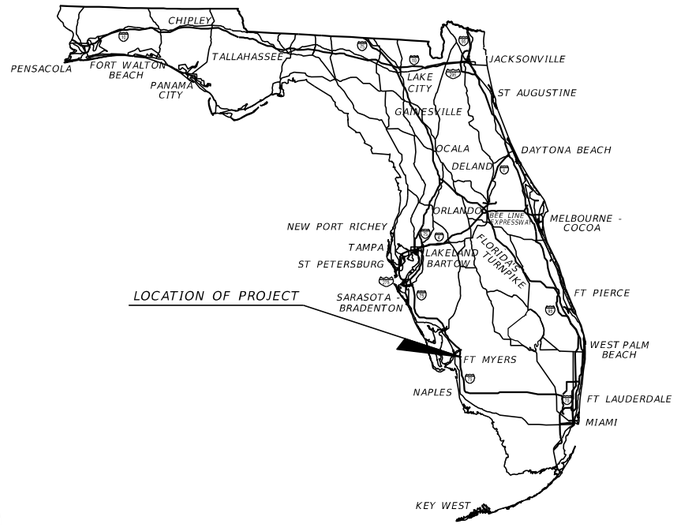
LEE COUNTY BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

PLANS OF PROPOSED
HOMESTEAD ROAD WIDENING
LEE COUNTY
PROJECT NO. 5063







PROJECT LENGTH IS BASED ON ℄ OF CONSTRUCTION

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	11,955.95	2.264
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	11,955.95	2.264
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	11,955.55	2.264

LEE COUNTY PROJECT MANAGER: SARAH CLARKE

KEY SHEET REVISIONS

DATE	DESCRIPTION

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:
Jason L. Starr, P.E.
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233

PLANS PREPARED BY:

HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213
Vendor No. 47-0680568
Contract No. 3806

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

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:
LIST OF DEVIATIONS: NONE

ROADWAY PLANS
ENGINEER OF RECORD: JASON L. STARR, PE

P.E. NO.: 70170

DATE: _____

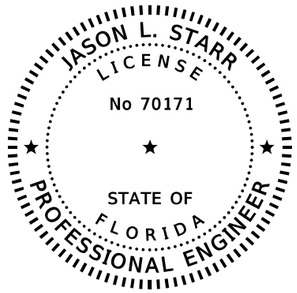
DEVELOPMENT ORDER APPROVED:
LEE COUNTY PUBLIC WORKS ADMINISTRATOR
DIRECTOR, P W TRANSPORTATION:

DAVID_LOVELAND

DATE: _____

SHEET NO.
1

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



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Jason L Starr

Digitally signed by Jason L Starr
DN: c=US, o=IdenTrust ACES Business Representative, ou=HDR ENGINEERING, cn=Jason L Starr, 0.9.2342.19200300.100.1.1=A01098000000143 58D6F7F7000002F2
Date: 2016.09.19 18:14:40 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232-6212
CERTIFICATE OF AUTHORIZATION NO. 4213
JASON L. STARR, PE NO. 70171

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEETS
10 - 12	TYPICAL SECTIONS
18	PROJECT LAYOUT
19	CURVE & COORDINATE DATA
24 - 25	GENERAL NOTES
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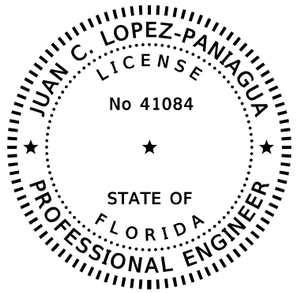
57	BUS STOP DETAIL
137 - 220	ROADWAY CROSS SECTIONS
238 - 243	TRAFFIC CONTROL PLANS
246 - 266	UTILITY ADJUSTMENT SHEETS



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Juan C Lopez-Paniagua
2016.09.19 15:00:58-04'00'

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HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, SUITE 400
TAMPA, FLORIDA 33609-3444
CERTIFICATE OF AUTHORIZATION NO. 4213
JUAN C. LOPEZ-PANIAGUA, PE NO. 41084

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEETS
4 - 8	DRAINAGE MAPS
9	EXISTING DRAINAGE STRUCTURES
13 - 17	SUMMARY OF DRAINAGE STRUCTURES
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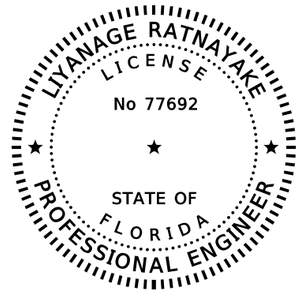
221 - 237	STORM WATER POLLUTION PREVENTION PLANS



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Digitally signed by LIYANAGE I RATNAYAKE
Date: 2016.09.19 15:07:52-04'00'

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HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, SUITE 400
TAMPA, FL 33609-3444
CERTIFICATE OF AUTHORIZATION No. 4213
LIYANAGE RATNAYAKE, PE NO. 77692

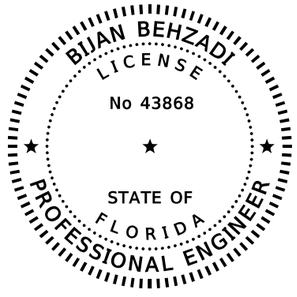
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2 - T-3	TABULATION OF QUANTITIES
T-4 - T-5	PROJECT NOTES
T-6	SIGNALIZATION PLAN VETERANS PARK
T-7	SIGNALIZATION PLAN FIRE STATION
T-8	SIGNALIZATION PLAN ALABAMA RD./LEELAND HEIGHTS BLVD.
T-9 - T-16	INTERCONNECT PLAN HOMESTEAD RD.
T-17	SPLICE DIAGRAM
T-18 - T-19	GUIDE SIGN WORK SHEET
T-20	SPAN WIRE TABULATION



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Bijan Behzadi
2016.09.19
14:35:31-04'00'

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HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, SUITE 400
TAMPA, FL 33609-3444
CERTIFICATE OF AUTHORIZATION No. 4213
BIJAN BEHZADI, PE NO. 43868

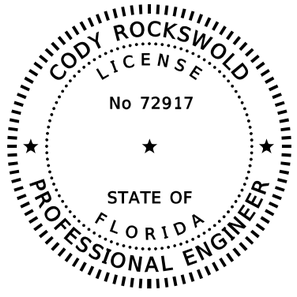
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2 - S-5	TABULATION OF QUANTITIES
S-6	PROJECT NOTES
S-7 - S-17	SIGNING AND PAVEMENT MARKING PLANS
S-18	GUIDE SIGN WORKSHEET
S-19 - S-21	SIGN CROSS SECTIONS



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Cody Rockswold
2016.09.19 14:41:44-04'00'

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HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, SUITE 400
TAMPA, FL 33609-3444
CERTIFICATE OF AUTHORIZATION No. 4213
CODY ROCKSWOLD, PE NO. 72917

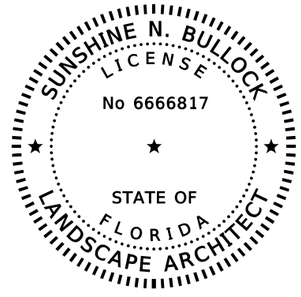
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET

LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	LEGEND, DETAILS & NOTES
L-4 - L-12	LIGHTING PLANS HOMESTEAD ROAD



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Sunshine Bullock

Digitally signed by Sunshine Bullock
DN: c=US, o=IdenTrust ACES Business Representative, ou=HDR ENGINEERING INC, cn=Sunshine Bullock, 0.9.2342.19200300.100.1.1=A01097C0000 0143F8BA347D00000338
Date: 2016.09.19 13:58:06 -04'00'

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HDR ENGINEERING, INC.
200 WEST FORSYTH STREET, SUITE 800
JACKSONVILLE, FLORIDA 32202
CERTIFICATE OF AUTHORIZATION NO. 4213
SUNSHINE BULLOCK, RLA NO. 6666817

THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.
NOTE:
THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL ONLY BE RESPONSIBLE FOR THE IRRIGATION DESIGN, IRRIGATION RELATED QUANTITIES, AND IRRIGATION DETAILS SHOWN ON REFFERENCED PLAN SHEETS.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET

LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	LANDSCAPE TABULATION OF QUANTITIES
LD-3	IRRIGATION TABULATION OF QUANTITIES
LD-4 TO LD-8	LANDSCAPE PLANS
LD-9	LANDSCAPE NOTES/DETAILS
LD-10 TO LD-14	IRRIGATION PLANS
LD-15	IRRIGATION NOTES
LD-16 TO LD-18	IRRIGATION DETAILS
LD-19	IRRIGATION WELL AND PUMP STATION OVERALL SITE PLAN
LD-20	PUMP STATION DETAILED SITE PLAN
LD-21	PUMP STATION DETAILS AND NOTES

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

SIGNATURE SHEET (1) HOMESTEAD ROAD

SHEET NO. 2

JSTARR 9/19/2016 PW:\202116\00000000\58055\13.00_CAD\Homestead\roadway\SIGNRD01.dgn

CHESTER A. SMITH III
LICENSE
No 70756
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Chester A Smith

Digitally signed by Chester A Smith
DN: CID:0.9.2342.19200300.100.1.1=A01097C000001525E6A4E7A500000BA2, CN=Chester A Smith, OU=HDR ENGINEERING INC, O=IdenTrust ACES Business Representative, C=US
Date: 2016.09.19 18:12:51-04'00'

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HDR ENGINEERING, INC.
5426 BAY CENTER DRIVE, SUITE 400
TAMPA, FLORIDA 33609-3444
CERTIFICATE OF AUTHORIZATION NO. 4213
CHESTER A. SMITH III, PE NO. 70756

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3	SIGNATURE SHEET
59	S-105 ENDWALLS
60	S-114A ENDWALLS
108 - 133	CONCRETE BOX CULVERT DETAILS
244	SHEET PILE GENERAL NOTES
245	TEMPORARY WALLS

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-21	STRAIN POLE DETAILS
T-22	FIXED SIGN BRACKET ARM (ONE WAY)
T-23	OVERHEAD SIGN LOCATION DETAIL ON SIGN BRACKET ARM

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-22	STANDARD MAST ARM ASSEMBLIES DATA TABLE

G.A. DREW
LICENSE
No 35504
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Gary A Drew
2016.09.19 16:03:33 -04'00'

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ARDAMAN & ASSOCIATES, INC.
9970 BAVARIA ROAD
FT. MYERS, FLORIDA 33913
CERTIFICATE OF AUTHORIZATION NO. 5950
G.A. DREW, PE NO. 35504

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3	SIGNATURE SHEET

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-23	CANTILEVER STRUCTURE BORINGS

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
GT-1 - GT-3	REPORT OF CORE BORINGS

SCOT A. CARPENTER
CERTIFICATE
No. 6177
STATE OF FLORIDA
REGISTERED SURVEYOR & MAPPER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Scot A Carpenter

Digitally signed by Scot A Carpenter
DN: c=US, o=IdenTrust ACES Business Representative, ou=MCKIM AND CREED INC., cn=Scot A Carpenter, 0.9.2342.19200300.100.1.1=A01097C000001 4DD38EEC7C00002DCF
Date: 2016.09.19 15:17:00 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

McKIM AND CREED, INC.
3903 NORTHDALE BLVD., STE 140W
TAMPA, FL 33624
CERTIFICATE OF AUTHORIZATION, LB NO. 7917
SCOT A. CARPENTER, PSM NO. 6177

I CERTIFY THAT THIS SURVEY WAS MADE UNDER MY SUPERVISION AND MEETS THE STANDARDS AND PRACTICES SET FORTH BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
3	SIGNATURE SHEET
20 - 21	SURVEY REFERENCE POINTS
22 - 23	BENCHMARKS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

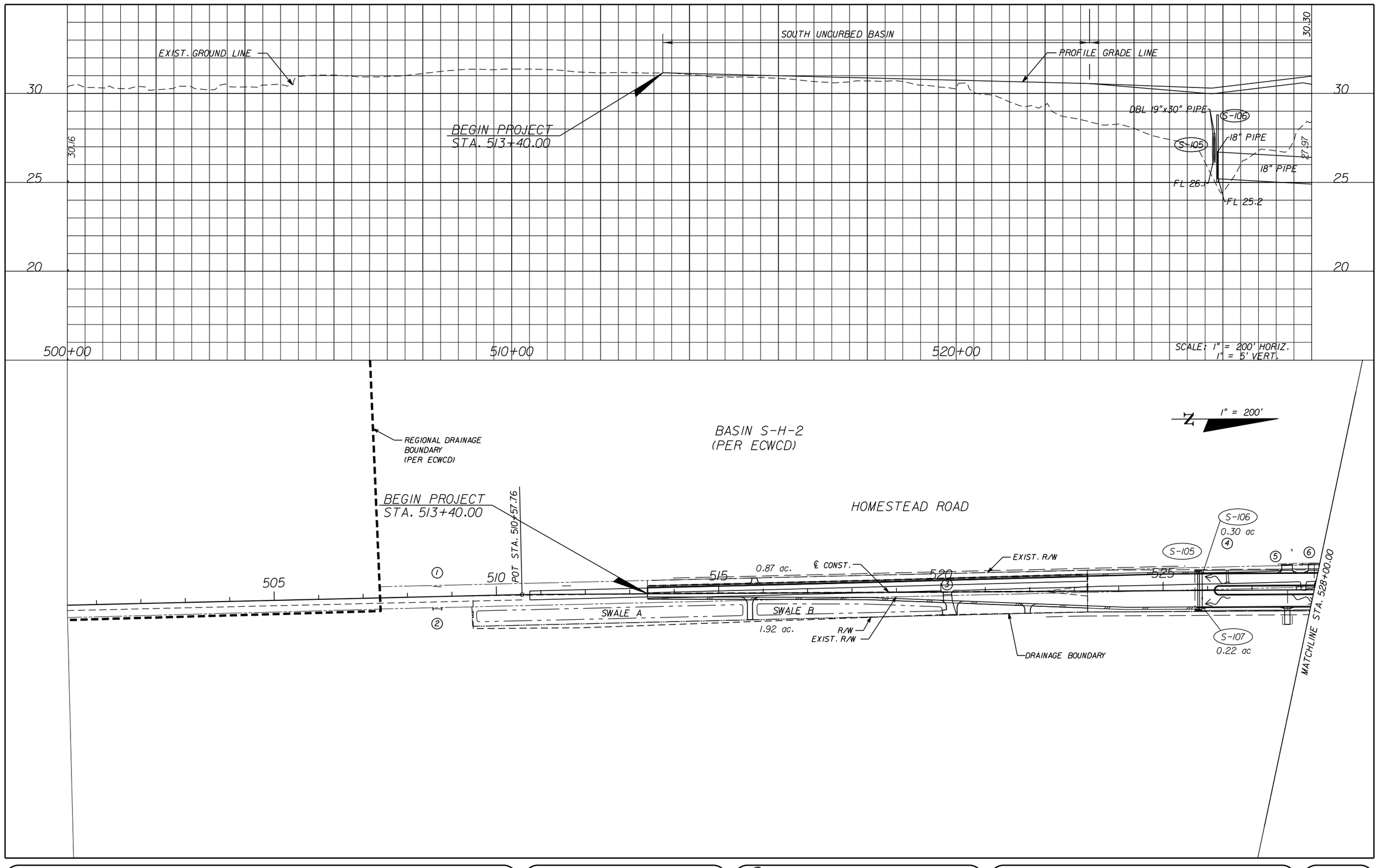
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 M0NROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

SIGNATURE SHEET (2)
HOMESTEAD ROAD

SHEET NO.
3



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Juan C. Lopez, P.E.
P.E. License Number 41084
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

EGILBERT

DRAINAGE MAP
HOMESTEAD ROAD

SHEET NO. 4

9/19/2016 10:59:20 AM PW:\2021\6\0000000005305\3.00_CAD\Homestead\drainage\drmprdll.dgn

SOUTH BASIN

EXIST. GROUND LINE

PROFILE GRADE LINE

(2) 30"x19' RCP
FL 26.76

30.30

29.35

27.97

30.45

S-108 S-110 S-110A S-112 S-114 S-114A S-115 S-115A S-117 S-119 S-121 S-122A S-123 S-124 S-125 S-125A

18" PIPE
18" PIPE
18" PIPE
18" PIPE
18" PIPE
18" PIPE
18" PIPE
12" PIPE
18" PIPE
24" PIPE
36" PIPE
48" PIPE
24" PIPE
30" PIPE
30" PIPE
30" PIPE
36" PIPE
36" PIPE
36" PIPE
36" PIPE
36" PIPE
36" PIPE
36" PIPE
42" PIPE
18" PIPE

FL 25.6
FL 24.8
FL 24.9
FL 24.4
FL 24.3
FL 24.0
FL 24.8
FL 23.1
FL 24.0
FL 22.9
FL 22.9
FL 22.7
FL 23.5
FL 24.3
FL 22.6
FL 25.3
FL 24.0
FL 22.4
FL 22.7
FL 22.2
FL 21.9
FL 21.7
FL 21.7
FL 21.6
FL 21.6
FL 21.4
FL 20.3
FL 20.5

30
25
20

530+00
540+00
550+00

SCALE: 1" = 200' HORIZ.
1" = 5' VERT.

T 45 S R 27 E SEC 8
T 45 S R 27 E SEC 5
T 45 S R 27 E SEC 6
T 45 S R 27 E SEC 5

BASIN S-A-2
BASIN S-H-2

POT STA. 5+38.10

REGIONAL DRAINAGE BOUNDARY (PER ECWCD)

EXIST. R/W

HOMESTEAD ROAD

MATCHLINE STA. 528+00.00

S-108 0.03 ac
S-110 0.19 ac
S-110A 0.11 ac
S-112 0.18 ac
S-114A
S-114
S-115 0.10 ac
S-115A 0.19 ac
S-115B 0.30 ac
S-116 0.15 ac
S-117 0.39 ac
S-118 0.13 ac
S-118A 0.31 ac
S-119 0.28 ac
S-120 0.30 ac
S-121 0.15 ac
S-122 0.19 ac
S-122A 0.15 ac
S-122B 0.11 ac
S-123 0.39 ac
S-124 0.36 ac
S-125
S-125A 0.43 ac
S-126A 0.43 ac
S-135
S-136 1.98 ac
S-137 0.41 ac
S-138 0.04 ac
S-109 0.11 ac
S-111 0.45 ac
S-113 0.31 ac

PT STA. 530+83.23
PT STA. 536+33.48
PT STA. 546+22.58
PT STA. 551+17.49
PT STA. 556+00.00
PT STA. 10+66.88
PT STA. 13+46.20

MATCHLINE STA. 556+00.00

R/W

BETHANY VILLAGE CIR.

SUNRISE BOULEVARD

CANAL 57-4-6

CANAL 57-4-7

BASIN S-A-2
(PER ECWCD)

NORIDGE DR.

ROAT ST.

℄ CONST.

1" = 200'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Juan C. Lopez, P.E.
P.E. License Number 41084
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Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

EGILBERT

DRAINAGE MAP
HOMESTEAD ROAD

SHEET NO. 5

9/19/2016 10:59:31 AM PW:\2021I6\000000000053055\3.00_CAD\Homestead\drainage\drmprdI2.dgn

SOUTH BASIN

CENTRAL BASIN

EXIST. GROUND LINE

PROFILE GRADE LINE

29.35

27.85

30.45

27.42

30

25

20

S-127 S-128 S-130 S-132 S-134A S-134 S-201 S-201A S-202 S-205 S-207 S-207A

18" PIPE 18" PIPE 18" PIPE 24" PIPE

42" PIPE 36" PIPE 36" PIPE 36" PIPE 30" PIPE 30" PIPE

14"x23" PIPE 19"x30" PIPE 19"x30" PIPE 24" PIPE 24" PIPE 24" PIPE

FL 23.0 FL 23.5 FL 23.0

FL 20.6 FL 20.5 FL 20.8 FL 21.0 FL 21.2 FL 21.5 FL 21.6 FL 22.6 FL 22.53 FL 22.2 FL 22.2 FL 21.9 FL 21.9 FL 21.6 FL 21.6 FL 21.5

560+00 570+00 580+00

SCALE: 1" = 200' HORIZ.
1" = 5' VERT.

BASIN S-H-2

BASIN S-A-1
(PER ECWCD)

N

1" = 200'

CALOOSA LAKES BOULEVARD

PC STA. 6+58.66

REGIONAL DRAINAGE BOUNDARY (PER ECWCD)

HOMESTEAD ROAD

MATCHLINE STA. 556+00.00

MATCHLINE STA. 584+00.00

S-126 0.39 ac

S-127 0.33 ac

S-128 0.01 ac

S-129 0.27 ac

S-130 0.28 ac

S-131 0.24 ac

S-132 0.30 ac

S-133A 0.36 ac

S-133 0.28 ac

S-134 0.34 ac

S-134A 0.36 ac

℄ CONST.

EXIST. R/W

R/W

560 565 570 575 580

PT STA. 9+00.10

POT STA. 10+00.00

POT STA. 11+75.00

10+44.36

11+46.41

S-200 0.27 ac

S-200A 0.30 ac

S-201 0.27 ac

S-201A 0.30 ac

S-202

S-204 0.30 ac

S-205 0.30 ac

S-206 0.37 ac

S-206A 0.27 ac

S-207 0.37 ac

S-207A 0.28 ac

21 22 23 24 25 26 27 28

REGIONAL DRAINAGE BOUNDARY (PER ECWCD)

BASIN S-H-2
(PER ECWCD)

BASIN S-A-1
(PER ECWCD)

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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LEE COUNTY
SOUTHWEST
FLORIDA

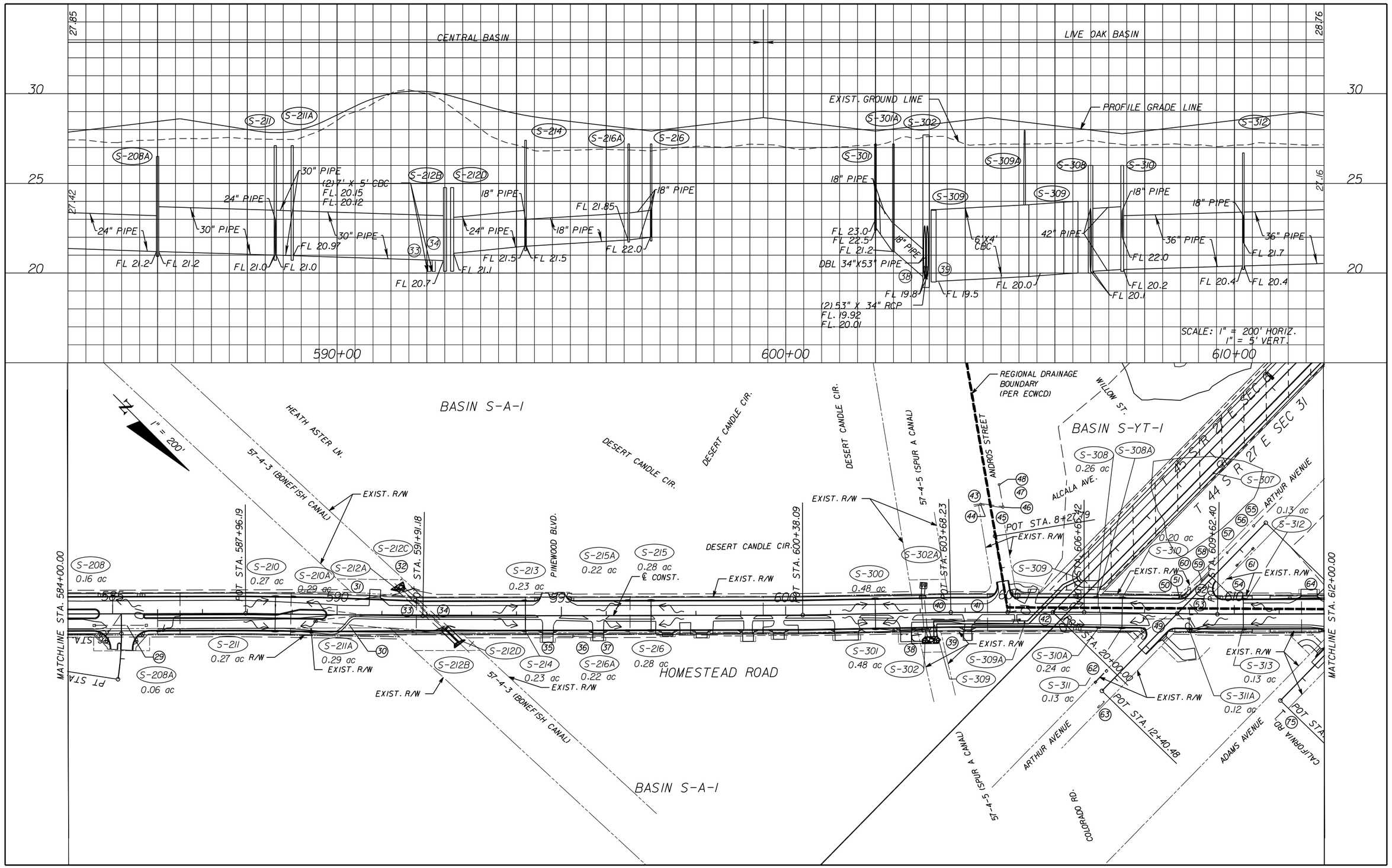
DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DRAINAGE MAP
HOMESTEAD ROAD

SHEET NO. 6

EGILBERT 9/19/2016 10:59:41 AM PW:\2021I6\000000000053055\V3.00_CAD\Homestead\drainage\drmprdI3.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT of TRANSPORTATION

EGILBERT

DRAINAGE MAP
HOMESTEAD ROAD

SHEET NO. 7

9/19/2016 10:59:51 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\drainage\drmprdl4.dgn

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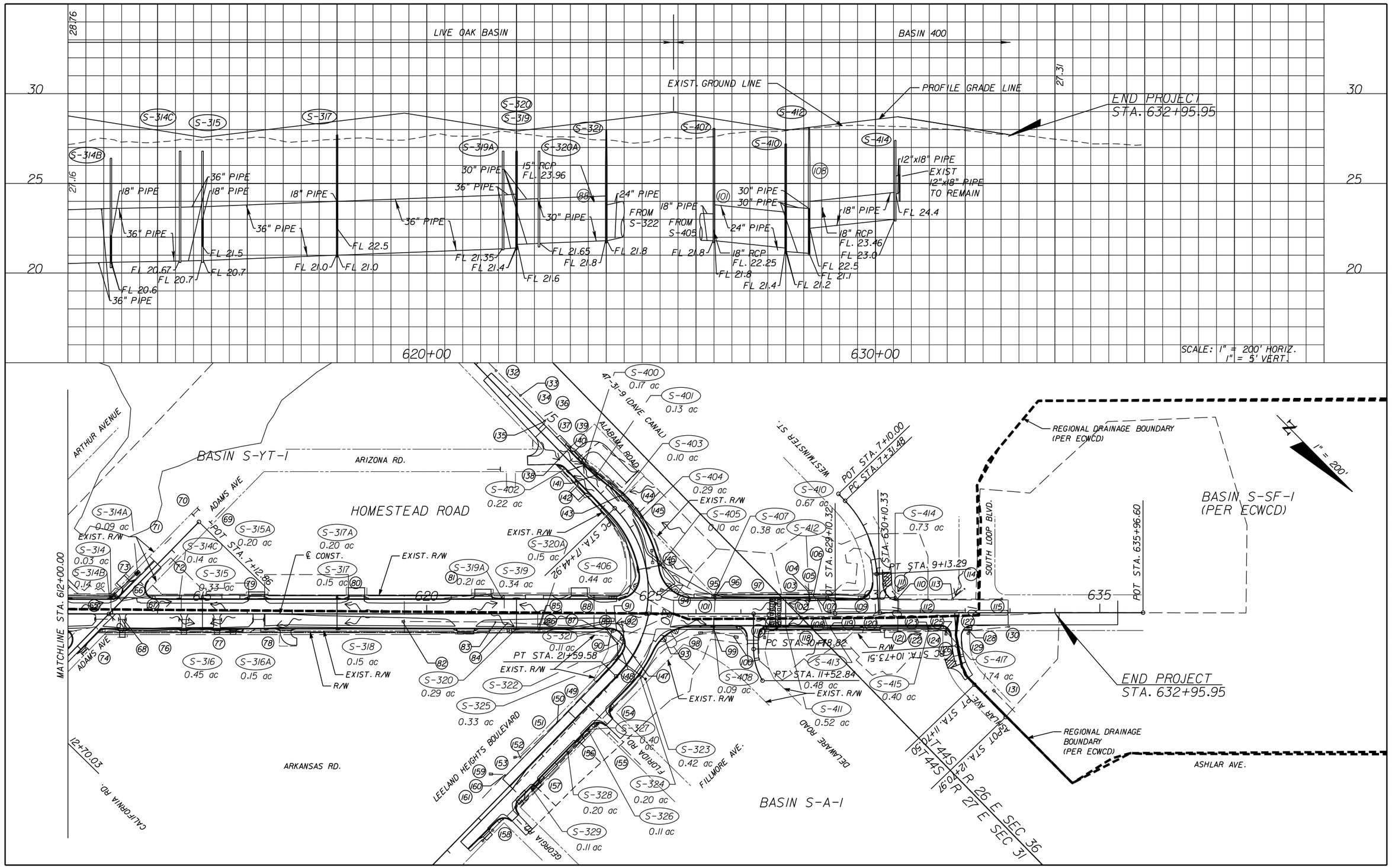

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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EGILBERT

DRAINAGE MAP
HOMESTEAD ROAD

SHEET NO. 8

9/19/2016 11:00:01 AM PW:\2021\6\0000000053055\3.00_CAD\Homestead\drainage\drmprd15.dgn

1 14" RCP
INV. 27.10 (S)
INV. 27.00 (N)

2 12" RCP
INV. 28.7 (S)
INV. 28.5 (N)

3 18" RCP
INV. 28.3 (S)
INV. 28.3 (N)

4 DBL 18" RCP
INV. 27.2 (W)
INV. 26.8 (E)

5 24" RCP
INV. 26.5 (S)
INV. 26.4 (N)

6 24" RCP
INV. 27.2 (S)
INV. 27.3 (N)

7 18" RCP
INV. 26.8 (S)
INV. 26.8 (N)

8 12" RCP
INV. 27.0 (S)
INV. 27.0 (N)

9 16" STRAIGHT ENDWALL
INV. 27.1 (S)
INV. 27.3 (N)

10 12" STRAIGHT ENDWALL
INV. 27.3 (S)
INV. 27.4 (N)

11 29" X 18" CMP
INV. 27.40 (S)
INV. 27.29 (N)

12 15" RCP
INV. 28.19 (S)
INV. 28.98 (N)

13 30" X 19" RCP
INV. 27.75 (S)
INV. 28.29 (N)

14 30" X 19" RCP
INV. 27.65 (W)
INV. 27.73 (E)

15 30" X 19" RCP
INV. 27.66 (W)
INV. 27.72 (E)

16 30" X 19" RCP
INV. 27.52 (S)
INV. 27.08 (N)

17 12" RCP W/ (2) MES
INV. 28.05 (W)
INV. 27.92 (E)

18 30" X 19" RCP W/ (2) MES
INV. 27.08 (S)
INV. 27.09 (N)

19 30" X 19" RCP W/ (2) MES
INV. 26.99 (S)
INV. 27.40 (N)

20 24" RCP
INV. 26.23 (S)
INV. 26.39 (N)

21 19" X 12" STRAIGHT ENDWALL
INV. 27.17 (S)
INV. 27.36 (N)

22 19" X 12" STRAIGHT ENDWALL
INV. 27.17 (S)
INV. 27.14 (N)

23 30" X 19"
INV. 26.19 (S)
INV. 26.32 (N)

24 29" X 18" CMP W/ (2) MES
INV. 25.85 (S)
INV. 25.86 (N)

25 30" X 19" RCP W/ MES
INV. 26.05 (S)
INV. 25.80 (N)

26 30" X 19" RCP W/ (2) MES
INV. 25.03 (S)
INV. 25.38 (N)

27 30" X 19" RCP W/ (2) MES
INV. 24.88 (S)
INV. 24.48 (N)

28 30" X 19" RCP W/ MES
DIRECTIONAL ONLY
INV. 24.96 (S)

29 23" X 14" RCP W/ (2) MES
INV. 23.93 (S)
INV. 23.93 (N)

30 30" CPP W/ MES
INV. 22.68 (S)
INV. 20.36 (N)

31 30" CMP
INV. 24.08 (S)
INV. 22.61 (N)

32 42" RCP
INV. 20.62 (S)
INV. 20.66 (N)

33 7' X 5' BOX CULVERT
INV. 19.99 (W)
INV. 20.19 (E)

34 7' X 5' BOX CULVERT
INV. 20.09 (W)
INV. 20.15 (E)

35 12" RCP
INV. 24.86 (S)
INV. 24.63 (N)

36 DBI
INV. 24.63 (S)
INV. 24.66 (N)

37 12" RCP
INV. 24.66 (S)
INV. 24.89 (N)

38 53" X 34" STRAIGHT ENDWALL
INV. 20.05 (W)
INV. 19.78 (E)

39 53" X 34" STRAIGHT ENDWALL
INV. 20.01 (W)
INV. 20.01 (E)

40 18" CMP
DIRECTIONAL ONLY
TIES INTO 53" X 34" RCP

41 24" CMP
DIRECTIONAL ONLY
INV. 23.43 (N)
TIES INTO 18" CMP

42 18" CMP W/ MES
INV. 23.69 (S)
INV. 23.71 (N)

43 DBL 18" X 11" CMP
INV. 21.59/21.58 (S)
INV. 20.25/20.25 (N)

44 DBI
INV. 20.25/20.25 (S)
INV. 20.25/20.23 (N)

45 DBL 18" X 11" CMP
INV. 20.25/20.33 (S)
INV. 20.34/20.36 (N)

46 DBI
INV. 20.34/20.36 (S)
INV. 20.38 (W)

47 18" X 11" CMP
INV. 21.15 (W)
INV. 20.38 (E)

48 DBI
INV. 21.15 (E)

49 18" RCP
STRAIGHT ENDWALL
INV. 23.72 (S)
MES
INV. 23.93 (N)

50 30" X 19" RCP
INV. 23.88 (S)
INV. 23.77 (N)

51 DBI
INV. 23.77 (S)
INV. 23.67 (N)
INV. 23.68 (W)

52 30" X 19" RCP
DIRECTIONAL ONLY
INV. 23.67 (S)

53 36" X 22" STRAIGHT ENDWALL
DIRECTIONAL ONLY
INV. 23.81 (N)
TIES INTO 30" X 19" RCP

54 30" X 19" RCP
INV. 23.64 (W)
INV. 23.89 (E)

55 DBI
INV. 23.89 (W)
INV. 23.86 (E)

56 30" X 19" RCP
INV. 23.86 (W)
INV. 24.04 (E)

57 DBI
INV. 24.04 (W)
INV. 23.98 (E)

58 30" X 19" RCP
INV. 23.98 (W)
INV. 23.92 (E)

59 DBI
INV. 23.92 (W)
INV. 23.91 (E)

60 30" X 19" RCP
INV. 23.91 (W)
INV. 23.68 (E)

61 23" X 14" RCP W/ (2) MES
INV. 24.53 (W)
INV. 24.40 (E)

62 19" X 12" RCP W/ (2) MES
INV. 24.62 (W)
INV. 24.54 (E)

63 32" X 14" BOX CULVERT
INV. 24.47 (W)
INV. 24.58 (E)

64 24" RCP W/ (2) MES
INV. 23.82 (S)
INV. 23.76 (N)

65 18" STRAIGHT ENDWALL
INV. 24.07 (S)
INV. 23.97 (N)

66 29" x 18" STRAIGHT ENDWALL
DIRECTIONAL ONLY
INV. 24.32 (S)

67 18" CPP
DIRECTIONAL ONLY
INV. 24.30 (N)
TIES INTO 29" X 18" CMP

68 24" STRAIGHT ENDWALL
INV. 24.53 (S)
INV. 24.45 (N)

69 30" X 19" RCP
INV. 24.49 (W)
STRAIGHT ENDWALL
INV. 24.44 (E)

70 23" X 14" STRAIGHT ENDWALL
INV. 24.92 (W)
INV. 24.74 (E)

71 30" X 19" RCP
INV. 24.52 (W)
INV. 24.60 (E)

72 18" CCP
INV. 24.62 (W)
INV. 24.67 (E)

73 18" RCP W/ (2) MES
INV. 24.56 (W)
INV. 24.28 (E)

74 22" X 13" STRAIGHT ENDWALL
INV. 25.03 (W)
INV. 25.00 (E)

75 25" X 16" CMP
STRAIGHT ENDWALL
INV. 24.44 (W)
INV. 24.27 (E)

76 18" STRAIGHT ENDWALL
INV. 24.37 (S)
INV. 24.19 (N)

77 18" STRAIGHT ENDWALL
INV. 24.44 (S)
INV. 24.51 (N)

78 18" RCP
STRAIGHT ENDWALL
INV. 24.38 (S)
INV. 24.61 (N)

79 18" STRAIGHT ENDWALL
INV. 24.87 (S)
INV. 24.84 (N)

80 25" X 16" STRAIGHT ENDWALL
INV. 24.52 (S)
INV. 24.55 (N)

81 18" RCP
INV. 24.67 (S)
INV. 24.49 (N)

82 18" RCP W/ MES
INV. 23.98 (S)
INV. 24.31 (N)

83 DBI
INV. 24.31 (S)
INV. 24.34 (N)

84 18" RCP
INV. 24.34 (S)
INV. 24.25 (N)

85 DBI
INV. 24.25 (S)
INV. 24.35 (N)

86 18" RCP
INV. 24.35 (S)
INV. 23.99 (N)

87 MANHOLE
RIM EL. 26.89
INV. 23.99 (S)
INV. 23.90 (N)
INV. 23.96 (W)

88 15" RCP W/ MES
INV. 24.02 (W)
INV. 23.96 (E)

89 24" RCP
INV. 23.90 (S)
INV. 20.72 (N)

90 DBI
INV. 20.72 (S)
INV. 20.68 (N)

91 24" RCP
INV. 20.68 (S)
INV. 23.19 (N)

92 MANHOLE
RIM EL. 26.70
INV. 23.19 (S)
INV. 23.13 (E)
INV. 23.14 (N)

93 18" RCP
INV. 23.14 (S)
INV. 19.58 (N)

94 30" X 19" RCP W/ MES
DIRECTIONAL ONLY
INV. 24.09 (S)

95 24" RCP
DIRECTIONAL ONLY
INV. 23.60 (N)
TIES INTO 30" X 19" RCP

96 DBI
INV. 23.60 (S)
INV. 22.21 (N)
INV. 22.25 (E)

97 30" RCP
INV. 22.21 (S)
INV. 21.94 (N)

98 24" RCP W/ MES
INV. 23.08 (S)
INV. 22.64 (N)

99 DBI
INV. 22.64 (S)
INV. 22.98 (N)
INV. 22.68 (W)

100 24" RCP W/ MES
INV. 22.98 (S)
INV. 24.01 (N)

101 18" RCP
INV. 22.25 (W)
INV. 22.68 (E)

102 MANHOLE
RIM EL. 27.45
INV. 21.94 (S)
INV. 24.42 (W)

103 30" RCP
INV. 21.84 (W)
INV. 24.42 (E)

104 DBI
INV. 20.66 (S)
INV. 23.11 (N)
INV. 21.84 (E)

105 48" CMP
DIRECTIONAL ONLY
INV. 20.66 (N)

106 36" X 22" CMP
INV. 23.11 (S)
INV. 23.25 (N)

107 DBI
INV. 23.25 (S)
INV. 23.36 (N)
INV. 23.45 (E)

108 18" RCP
INV. 23.45 (W)
INV. 23.46 (E)

109 22" X 13" CMP
INV. 23.36 (S)
INV. 24.48 (N)

110 DBI
INV. 24.48 (S)
INV. 24.56 (N)
INV. 25.36 (W)

111 8" CPP W/ MES
INV. 25.57 (E)
INV. 25.36 (W)

112 18" X 11" CMP
INV. 24.56 (S)
INV. 24.45 (N)

113 DBI
INV. 24.45 (S)
INV. 24.48 (N)
INV. 25.36 (W)

114 8" CPP W/ MES
INV. 25.33 (W)
INV. 25.36 (E)

115 18" X 11" CMP
INV. 24.48 (S)
INV. 24.46 (N)

116 19" X 12" RCP W/ MES
INV. 25.34 (W)
INV. 25.43 (E)

117 DBI
INV. 25.18 (N)
INV. 25.34 (E)

118 19" X 12" RCP
INV. 25.18 (S)
INV. 24.52 (N)

119 DBI
INV. 24.52 (S)
INV. 23.53 (N)

120 24" RCP
INV. 23.53 (S)
INV. 24.90 (N)

121 DBI
INV. 24.90 (S)
INV. 24.93 (N)

122 24" RCP
INV. 24.93 (S)
INV. 24.94 (N)

123 DBI
INV. 24.94 (S)
INV. 25.28 (N)

124 23" X 14" RCP
INV. 25.28 (S)
INV. 25.29 (N)

125 DBI
INV. 25.29 (S)
INV. 24.99 (N)
INV. 25.05 (E)

126 19" X 12" RCP W/ MES
INV. 25.05 (W)
INV. 25.25 (E)

127 19" X 12" RCP
INV. 24.99 (S)
INV. 25.16 (N)

128 DBI
INV. 25.16 (S)
INV. 25.31 (N)
INV. 25.31 (E)

129 19" X 12" RCP W/ MES
INV. 25.31 (W)
INV. 25.42 (E)

130 19" X 12" RCP
INV. 25.31 (S)
INV. 25.31 (N)

131 19" X 12" RCP W/ MES
INV. 24.80 (W)
INV. 24.94 (E)

132 23" X 14" RCP
INV. 25.57 (W)
INV. 24.39 (E)

133 DBI
INV. 24.39 (W)
INV. 24.47 (E)

134 23" X 14" RCP
INV. 24.47 (W)
INV. 25.31 (E)

135 DBI
INV. 25.31 (W)
INV. 25.34 (E)
INV. 26.31 (N)

136 8" PVC
INV. 26.31 (S)
INV. 26.74 (N)

137 23" X 14" RCP
INV. 25.34 (W)
INV. 24.66 (E)

138 DBI
INV. 24.66 (W)
INV. 24.71 (E)
INV. 26.37 (N)

139 8" PVC
INV. 26.37 (S)
INV. 26.77 (N)

140 23" X 14" RCP
INV. 24.71 (W)
INV. 24.84 (E)

141 DBI
INV. 24.84 (W)
INV. 24.84 (E)

142 23" X 14" RCP
INV. 24.84 (W)
INV. 24.93 (E)

143 DBI
INV. 24.93 (W)
INV. 25.40 (E)

144 23" X 14" RCP
DIRECTIONAL ONLY
INV. 25.40 (W)

145 30" X 19" RCP
DIRECTIONAL ONLY
INV. 24.70 (E)
TIES INTO 23" X 14" RCP

146 23" X 14" RCP W/ (2) MES
INV. 24.48 (W)
INV. 24.52 (E)

147 24" RCP
INV. 23.17 (W)
INV. 23.13 (E)

148 DBI
INV. 23.13 (W)
INV. 23.06 (E)

149 24" RCP
INV. 23.06 (W)
INV. 23.14 (E)

150 DBI
INV. 23.14 (W)
INV. 23.53 (E)

151 24" RCP
INV. 23.53 (W)
INV. 23.99 (E)

152 MANHOLE
RIM EL. 27.42
INV. 23.99 (W)
INV. 24.26 (S)

153 18" RCP W/ MES
INV. 24.52 (S)
INV. 24.26 (N)

154 12" RCP W/ (2) MES
INV. 24.64 (W)
INV. 24.84 (E)

155 12" CMP
STRAIGHT ENDWALL
INV. 24.69 (S)
INV. 24.77 (N)

156 29" X 18" CMP W/ (2) MES
INV. 24.99 (W)
INV. 25.08 (E)

157 22" X 13" CMP W/ (2) MES
INV. 24.91 (W)
INV. 24.77 (E)

158 22" X 13" CMP W/ MES
INV. 24.74 (W)
INV. 24.85 (E)

159 18" RCP W/ MES
INV. 25.15 (S)
INV. 24.29 (N)

160 MANHOLE
RIM EL. 27.12
INV. 24.29 (S)
INV. 23.97 (E)

161 18" RCP
INV. 23.97 (W)
INV. 23.44 (E)

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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P.E. License Number 41084
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Sarasota, FL 34232-6233
Certificate of Authorization 4213

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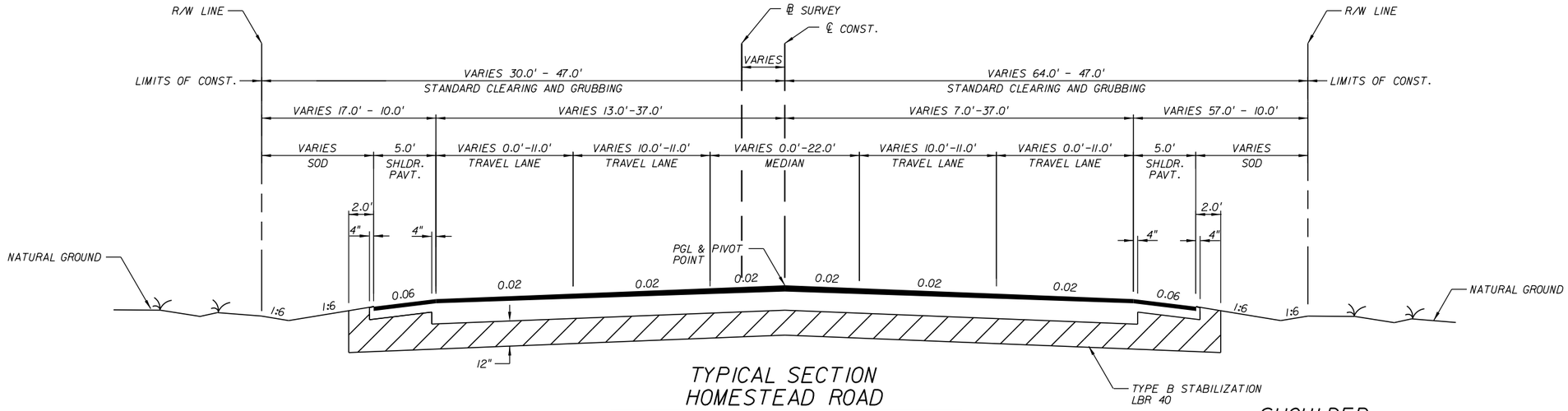
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

ASTEVANU

EXISTING DRAINGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 9

9/19/2016 12:14:58 PM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\drainage\drmprd21.dgn



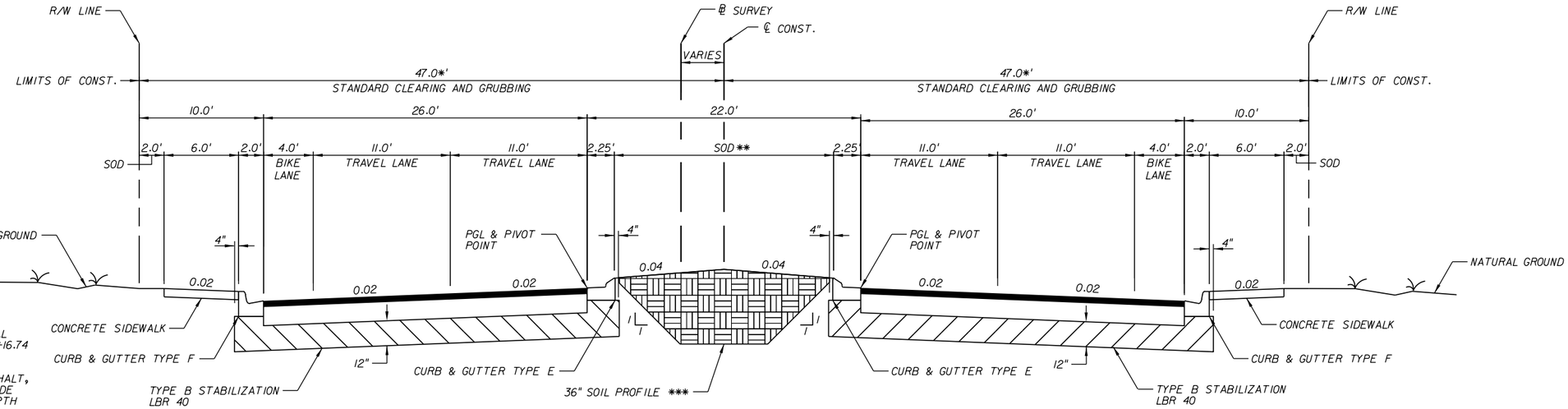
TYPICAL SECTION
HOMESTEAD ROAD
STA. 513+40.00 TO STA. 525+75.00

SHOULDER
OPTIONAL BASE GROUP 1 WITH
1" ASPHALTIC CONCRETE TYPE S-111

NEW CONSTRUCTION
OPTIONAL BASE GROUP 9 WITH
2½" ASPHALTIC CONCRETE TYPE S-1
AND 1" ASPHALTIC CONCRETE TYPE S-111

TRAFFIC DATA - HOMESTEAD ROAD

CURRENT YEAR EST. 2015 AADT = 28,410
ESTIMATED OPENING YEAR EST. 2018 AADT = 29,240
ESTIMATED DESIGN YEAR EST. 2038 AADT = 34,760
K = 10% D= 54% T= 6% (24 HOUR)
DESIGN HOUR T = 3%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH



TYPICAL SECTION
HOMESTEAD ROAD
STA. 525+75.00 TO STA. 589+66.47

NEW CONSTRUCTION
OPTIONAL BASE GROUP 9 WITH
2½" ASPHALTIC CONCRETE TYPE S-1
AND 1" ASPHALTIC CONCRETE TYPE S-111

MILLING AND RESURFACING
MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)
CONSTRUCT 1" ASPHALTIC CONCRETE TYPE S-111

LIMITS OF MILLING AND RESURFACING ARE SHOWN ON THE PLAN SHEETS

NOTES:

*
RIGHT-OF-WAY VARIES UP TO 103.84' TOTAL WIDTH FROM STA. 534+25.50 TO STA. 551+16.74

**
THE CONTRACTOR IS TO REMOVE ALL ASPHALT, LIMEROCK AND COMPACTED BASE SOIL INSIDE THE MEDIAN AREAS TO THE CRITICAL DEPTH (EXISTING ACTUAL ASPHALT, LIMEROCK & COMPACTED BASE) OR 36". THE NEW FILL SOIL SHALL HAVE A COMPACTION OF < 75%. IF LIMEROCK OR COMPACTION REOCCURS IN THE MEDIAN, THE CONTRACTOR WILL BE REQUIRED TO DIG IT OUT AND REPLACE IT AT HIS EXPENSE.

***
DEPTH SHALL BE THE GREATER OF THE CRITICAL DEPTH OR 36" SOIL PROFILE AS FOLLOWS:

SAND - 85% SAND (0.5 TO 2.0 mm PARTICLE SIZE) 25% OF WHICH SHALL BE CLASSIFIED AS COARSE SAND AND LEGS THAN 50% OF AND OTHER SAND GRADE.

SILT - 4 - 5% (0.002 TO 0.05 mm PARTICLE SIZE)

CLAY - 6 - 8% (<0.002 mm PARTICLE SIZE)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION

TYPICAL SECTIONS
HOMESTEAD ROAD

SHEET NO. 10

EGILBERT 9/19/2016 PW:\202116\0000000\93055\13.00_CAD\Homestead\roadway\typsrd01.dgn

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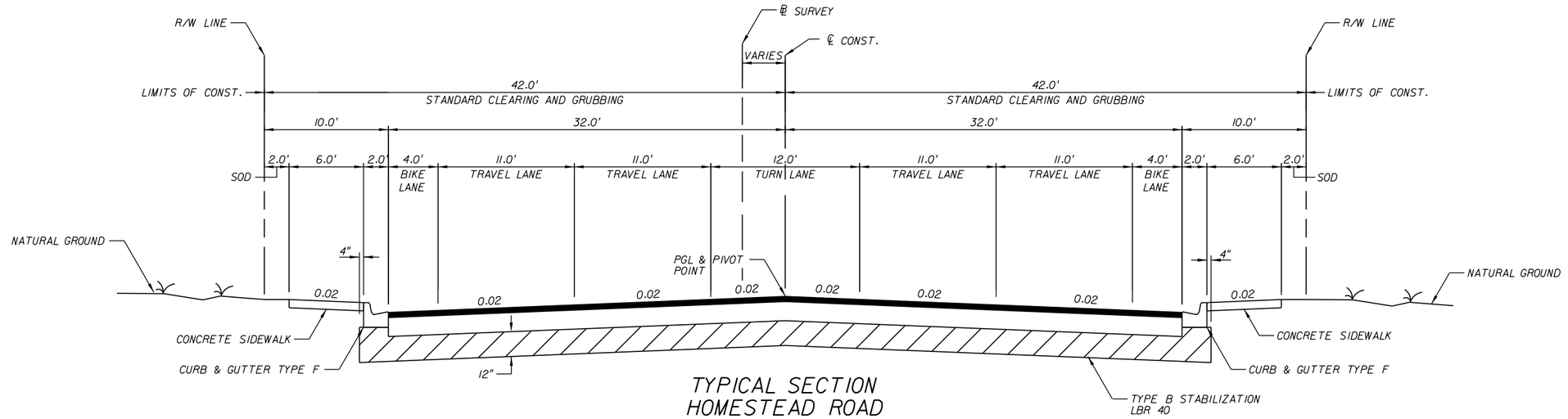


TYPICAL SECTION HOMESTEAD ROAD

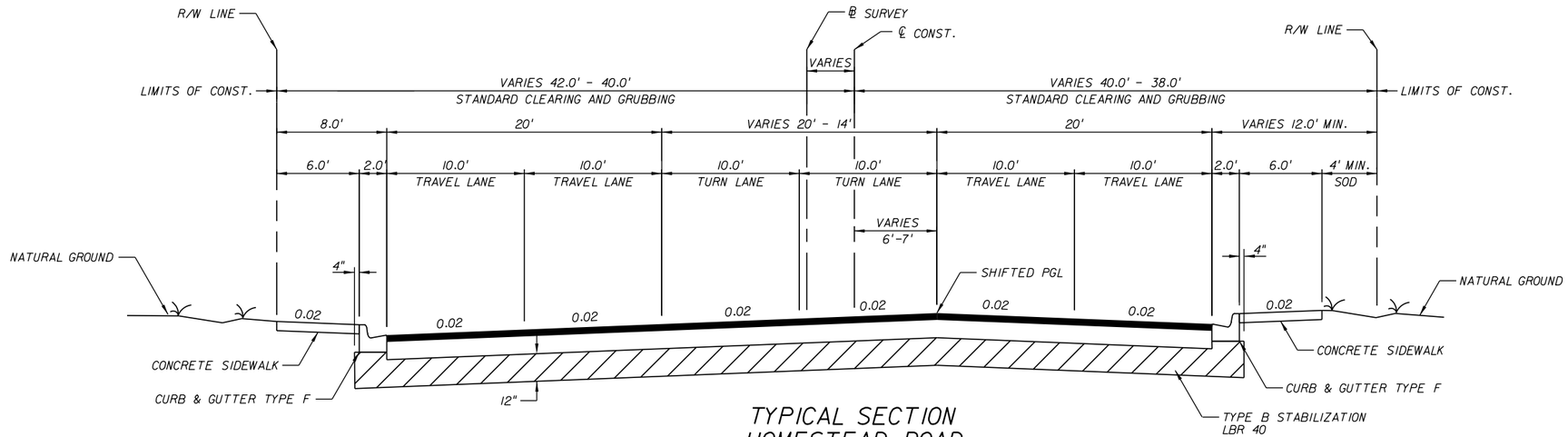
STA. 589+66.47 TO STA. 625+82.54

TRAFFIC DATA - HOMESTEAD ROAD

CURRENT YEAR EST. 2015 AADT = 28,410
ESTIMATED OPENING YEAR EST. 2018 AADT = 29,240
ESTIMATED DESIGN YEAR EST. 2038 AADT = 34,760
K = 10% D= 54% T= 6% (24 HOUR)
DESIGN HOUR T = 3%
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
2½" ASPHALTIC CONCRETE TYPE S-I
AND 1" ASPHALTIC CONCRETE TYPE S-III



TYPICAL SECTION HOMESTEAD ROAD

STA. 625+82.54 TO STA. 632+95.95

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
2½" ASPHALTIC CONCRETE TYPE S-I
AND 1" ASPHALTIC CONCRETE TYPE S-III

MILLING AND RESURFACING

MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)
CONSTRUCT 1" ASPHALTIC CONCRETE TYPE S-III

LIMITS OF MILLING AND RESURFACING ARE SHOWN ON THE PLAN SHEETS

* PGL IS LOCATED AT ℄ OF CONSTRUCTION EXCEPT BETWEEN STA. 625+82.54 TO STA. 632+00 AS SHOWN IN THE PLANS.

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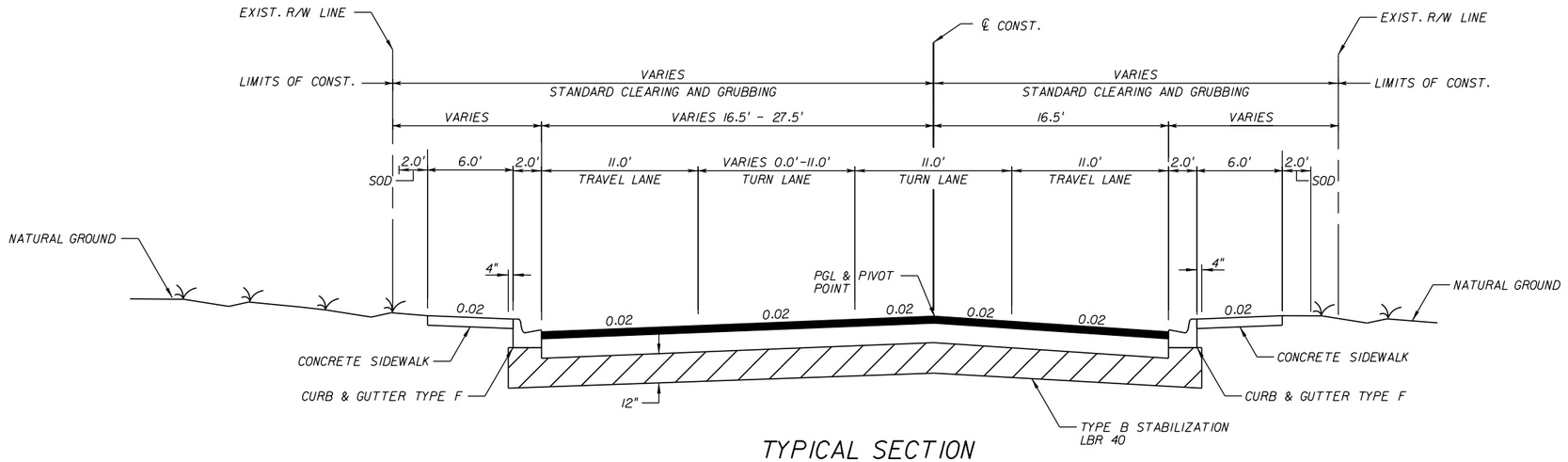
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

TYPICAL SECTIONS
HOMESTEAD ROAD

SHEET NO. 11

EGILBERT 9/19/2016 PW:\2021\6\00\00033055\13.00_CAD\Homestead\roadway\typsrd02.dgn

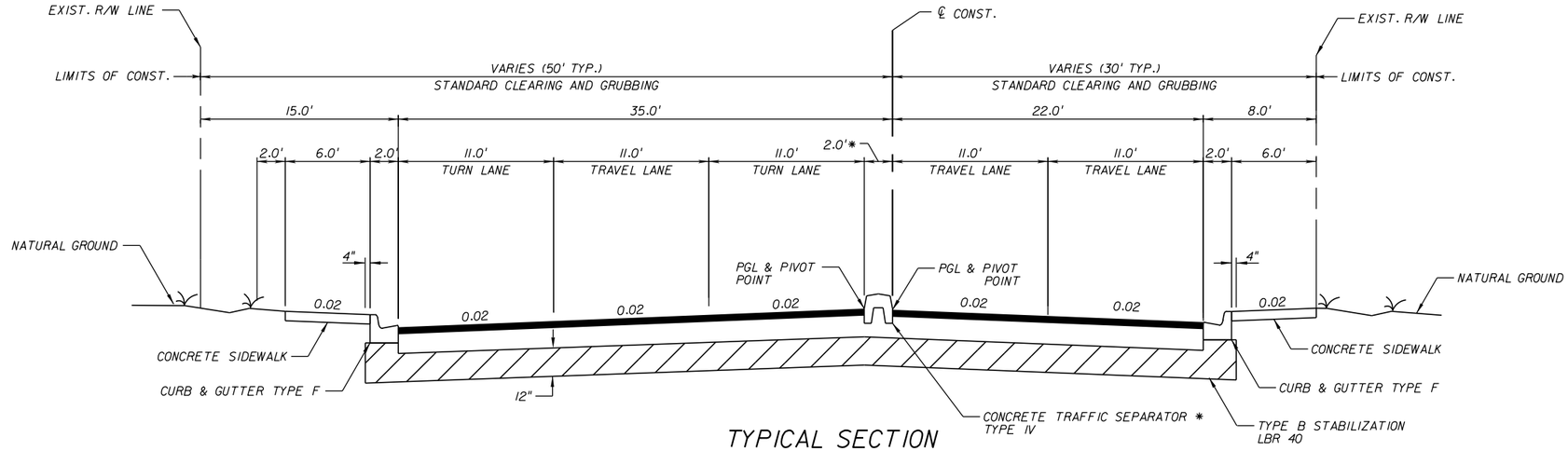


TYPICAL SECTION
ALABAMA ROAD

STA. 15+08.31 TO STA. 19+65.71
DESIGN SPEED = 35 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
2½" ASPHALTIC CONCRETE TYPE S-I
AND 1" ASPHALTIC CONCRETE TYPE S-III



TYPICAL SECTION
LEELAND HEIGHTS BOULEVARD

STA. 20+35.11 TO STA. 22+89.92 EB
STA. 20+35.11 TO STA. 26+65.58 WB
DESIGN SPEED = 40 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
2½" ASPHALTIC CONCRETE TYPE S-I
AND 1" ASPHALTIC CONCRETE TYPE S-III

*LIMITS OF TRAFFIC SEPARATOR ARE STA. 20+63.31 TO STA. 24+50.00

MILLING AND RESURFACING

MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)
CONSTRUCT 1" ASPHALTIC CONCRETE TYPE S-III

LIMITS OF MILLING AND RESURFACING ARE SHOWN ON THE PLAN SHEETS

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PUBLIC WORKS
LEE COUNTY
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FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
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TYPICAL SECTIONS
ALABAMA ROAD/ LEELAND HEIGHTS BLVD.

SHEET NO.
12

EGILBERT 9/19/2016 PW:\202116\0000000\0000003055\13.00_CAD\Homestead\roadway\typsrd03.dgn

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL PIPE											CURB INLET					MH					DITCH BOTTOM INLET				JUNCTION BOX		MES				U-END WALL		CONCRETE		REINF STEEL	RIP RAP	BEDDING STONE	RAILING	REMARKS
						ROUND SHAPE							OTHER																			CROSS DRAIN						CLASS II EW	CLASS IV CULV					
						UP TO 24"			25" TO 36"		37" TO 48"		UP TO 24"			37" TO 48"	P-5	P-6	J-5	J-6	FLUME	P-8	P-8	J-7	J-8	J-8	C	C MOD	C MOD	C MOD	J-7	P-7	ROUND		OTHER		1:3				RDWY	DITCH LINING		PED/ BIKE	
						12"	18"	24"	30"	36"	42"	48"	15"	18"	24"	42"	<10	<10	<10	<10	SINGLE	<10	PART	<10	<10	>10	<10	<10	J, <10	PART	<10	PARTIAL	42"	48"	18"	42"	18"	24"	CY	CY	LB	TN	TN	LF	
P	S-105	525+80.00	LT/RT	EW, PIPES, EW	2										182																								14.32		1196				
F																																													
P	S-106	525+88.00	LT	INLET, PIPE	1		281										1																												
F																																													
P	S-107	525+88.00	RT	INLET, PIPE	1		73										1																												
F																																													
P	S-108	528+72.00	LT	INLET, PIPE	1			205									1																												
F																																													
P	S-109	528+72.00	RT	INLET, PIPE	1		73										1																												
F																																													
P	S-110	530+80.00	LT	INLET, PIPE	1			29									1																												
F																																													
P	S-111	530+80.00	RT	INLET, PIPE	1		45											1																												
F																																													
P	S-110A	531+14.00	LT	INLET, PIPE	1				101									1																												
F																																													
P	S-112	532+20.00	LT	INLET, PIPE	1				170								1																												
F																																													
P	S-113	532+20.00	RT	INLET, PIPE	1		45										1																												
F																																													
P	S-114	534+00.00	LT	MH, PIPE	1				131																	1																				
F																																													
P	S-114A	534+72.85	LT/RT	EW, PIPES, EW	2										184																								18.37		1597				
F																																													
P	S-115	535+60.00	LT	INLET, PIPE	1					223									1																												
F																																													
P	S-116	535+60.00	RT	INLET, PIPE	1		45										1																												
F																																													
P	S-115A	537+90.00	LT	INLET, PIPE	1					99									1																												
F																																													
P	S-115B	537+90.00	RT	INLET, PIPE	1		45										1																												
F																																													
P	S-117	538+87.37	LT	INLET, PIPE	1					289										1																												
F																																													
P	S-118	538+87.37	RT	INLET, PIPE	1		73											1																												
F																																													
P	S-118A	539+24.00	RT	INLET,PIPE	1		34										1																												
F																																													
P	S-119	541+79.78	LT	PIPE, INLET, PIPE	1	9				267									1																												
F																																													
P	S-120	541+79.78	RT	INLET, PIPE	1		73										1																												
F																																													
P	S-121	544+50.00	LT	INLET, PIPE	1					398									1																												
F																																													
P	S-122	544+50.00	RT	INLET, PIPE	1			72									1																												
F																																													
P	S-122A	548+50.00	LT	INLET, PIPE	1					97									1																												
F																																													
P	S-122B	548+50.00	RT	INLET, PIPE	1		97										1																												
F																																													
P	S-123	549+50.00	LT	INLET, PIPE	1					71										1																												
F																																													
P	S-124	549+50.00	RT	INLET, PIPE	1					225										1																												
F																																													
P	S-125	551+80.00	RT	MH, PIPE, MES	1							56															1								1											
F																																													
P	S-126A	556+00.00	LT	INLET, PIPE	1		47										1																												
F																																													
P	S-125A	556+00.00	RT	INLET, PIPE	1						418								1																												
F																																													
P	S-126	556+50.00	LT	INLET, PIPE	1		73											1																												
F																																													
P	S-127	556+50.00	RT	INLET, PIPE	1						47									1																												
F																																													
P	S-128	559+40.00	RT	INLET, PIPE	1					285									1																												
F																																													
SHEET TOTALS	PLAN QUANT.					9	1004	306	402	1954	465	56			366		14	4	7	4					1	1							1						32.69		2793				
	FINAL QUANT.																																												

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ASTEVANU

SUMMARY OF DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 13

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL PIPE											CURB INLET					MH					DITCH BOTTOM INLET				JUNCTION BOX		MES				U-END WALL		CONCRETE		REINF STEEL	RIP RAP	BEDDING STONE	RAILING	REMARKS
						ROUND SHAPE							OTHER																				CROSS DRAIN						CLASS II EW	CLASS IV CULV					PED/ BIKE	
						UP TO 24"			25" TO 36"		37" TO 48"		UP TO 24"			37" TO 48"	P-5	P-6	J-5	J-6	FLUME	P-8	P-8	J-7	J-8	J-8	C	C MOD	C MOD	C MOD	J-7	P-7	ROUND		OTHER		1:3				RDWY	DITCH LINING		
						12"	18"	24"	30"	36"	42"	48"	15"	18"	24"	42"	<10	<10	<10	<10	SINGLE	<10	PART	<10	<10	>10	<10	<10	J, <10	PART	<10	PARTIAL	42"	48"	18"	42"	18"	24"	CY	CY	LB	TN	TN	LF	
P	S-129	562+00.00	LT	INLET, PIPE	1		73										1																										
F																																											
P	S-130	562+00.00	RT	INLET, PIPE	1					255									1																								
F																																											
P	S-131	564+50.00	LT	INLET, PIPE	1		73										1																										
F																																											
P	S-132	564+50.00	RT	INLET, PIPE	1					246									1																								
F																																											
P	S-133A	567+76.00	LT	INLET, PIPE	1		21										1																										
F																																											
P	S-134A	567+76.00	RT	INLET, PIPE	1				323								1																										
F																																											
P	S-133	568+00.00	LT	INLET, PIPE	1			73										1																										
F																																											
P	S-134	568+00.00	RT	INLET, PIPE	1				21									1																										
F																																											
P	S-135	9+28.31 @ SUN	LT/RT	MES, PIPE, MES	1									90																						2							
F																																											
P	S-136	10+69.31 @ SUN	LT	INLET, PIPE	1			99																				1														
F																																											
P	S-137	10+69.31 @ SUN	RT	INLET, PIPE	1			23																				1														
F																																											
P	S-138	546+14.76	RT	INLET, PIPE	1			161									1																										
F																																											
P	S-139	9+06.75 @ MAR	RT	FLUME INLET	1																1																				8.6	
F																																											
P	S-200	573+00.00	LT	INLET, PIPE	1									71				1																									
F																																											
P	S-201	573+00.00	RT	INLET, PIPE	1										46			1																									
F																																											
P	S-200A	573+50.00	LT	INLET, PIPE	1		46										1																										
F																																											
P	S-201A	573+50.00	RT	INLET, PIPE	1										246		1																										
F																																											
P	S-202	576+00.00	RT	MH, PIPE	1			296														1																				
F																																											
P	S-204	579+00.00	LT	INLET, PIPE	1		297										1																										
F																																											
P	S-205	579+00.00	RT	INLET, PIPE	1			297									1																										
F																																											
P	S-206	582+00.00	LT	INLET, PIPE	1		46											1																										
F																																											
P	S-207	582+00.00	RT	INLET, PIPE	1			46										1																										
F																																											
P	S-206A	582+50.00	LT	INLET, PIPE	1		247										1																										
F																																											
P	S-207A	582+50.00	RT	INLET, PIPE	1			347									1																										
F																																											
P	S-208	585+00.00	LT	INLET, PIPE	1			359									1																										
F																																											
P	S-208A	586+00.00	RT	INLET, PIPE	1				257								1																										
F																																											
P	S-210	588+62.26	LT	INLET, PIPE	1			75										1																										
F																																											
P	S-211	588+62.26	RT	INLET, PIPE	1				34											1																								
F																																											
P	S-210A	589+00.00	LT	INLET, PIPE	1		34										1																										
F																																											
P	S-211A	589+00.00	RT	INLET, PIPE	1				336								1																										
F																																											
P	S-212A	591+36.18	LT	CBC (5'x7')	1																																				10	1187	20.1	14.5		
F																																												
P	S-212B	592+66.23	RT	CBC (5'x7')	1																																				40.5	7097	9.7	7.0		
F																																												
P	S-212C	591+44.71	LT	CBC (5'x7')	1																																				12.8	1867				
F																																												
SHEET TOTALS	PLAN QUANT.				1		837	1776	971	501				161	292		15	7	2	1	1	1					2							2						63.3	10151	29.8	21.5	8.6	
	FINAL QUANT.																																											

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ASTEVANU

SUMMARY OF DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 14

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL PIPE											CURB INLET					MH					DITCH BOTTOM INLET				JUNCTION BOX		MES				U-END WALL		CONCRETE		REINF STEEL	RIP RAP	BEDDING STONE	RAILING	REMARKS
						ROUND SHAPE							OTHER																				CROSS DRAIN						CLASS II EW	CLASS IV CULV						
						UP TO 24"			25" TO 36"		37" TO 48"		UP TO 24"			37" TO 48"	P-5	P-6	J-5	J-6	FLUME	P-8	P-8	J-7	J-8	J-8	C	C MOD	C MOD	C MOD	J-7	P-7	ROUND		OTHER		1:3									
						12"	18"	24"	30"	36"	42"	48"	15"	18"	24"	42"	<10	<10	<10	<10	SINGLE	<10	PART	<10	<10	>10	<10	<10	J, <10	PART	<10	PARTIAL	42"	48"	18"	42"	18"	24"	CY	CY	LB	TN	TN	LF	
P	S-212D	592+75.83	RT	CBC (5'x7')	1																																		38.8	6959				
F																																											
P	S-213	594+20.00	LT	INLET, PIPE	1		63										1																											
F																																											
P	S-214	594+20.00	RT	INLET, PIPE	1			163									1																											
F																																											
P	S-215A	596+50.00	LT	INLET, PIPE	1		46										1																											
F																																											
P	S-216A	596+50.00	RT	INLET, PIPE	1		226										1																											
F																																											
P	S-215	597+00.00	LT	INLET, PIPE	1		63											1																										
F																																											
P	S-216	597+00.00	RT	INLET, PIPE	1		46											1																										
F																																											
P	S-300	602+00.00	LT	INLET, PIPE	1		63											1																										
F																																											
P	S-301	602+00.00	RT	INLET, PIPE	1		38											1																										
F																																											
P	S-301A	602+40.00	RT	INLET, PIPE	1		61																						1														8.6	
F																																											
P	S-302	603+13.26	RT	J-BOX, PIPE	2											34															1												
F																																											
P	S-302A	603+06.39	LT	MES, PIPE, J-BOX	2											34															1				2								
F																																											
P	S-304	6+10.25 @ LIV	LT	MH, PIPE, MES	1						9													1								1								32.1	23.0		
F																																											
P	S-305	7+27.67 @ LIV	LT	MH, PIPE	1						115													1																			
F																																											
P	S-306	11+27.67 @ LIV	LT	MH, PIPE	1						398													1																			
F																																											
P	S-307	15+27.67 @ LIV	LT	MH, PIPE	1						397													1																			
F																																											
P	S-308A	18+85.00 @ LIV	LT	MH, PIPE	1						360													1																			
F																																											
P	S-308	606+92.72	LT	INLET, PIPE	1						19								1																									
F																																											
P	S-309	605+62.51	LT/RT	CBC (6'x4')	1																																		268.7	54349	42.7	30.7		
F																																											
P	S-309A	605+32.51	RT	MH (PARTIAL)																			1																					
F																																											
P	S-310A	607+00.00	RT	INLET, PIPE	1		46										1																											
F																																											
P	S-310	607+50.00	LT	INLET, PIPE	1						54									1																								
F																																											
P	S-311	607+50.00	RT	INLET, PIPE	1		64											1																										
F																																											
P	S-311A	609+00.00	RT	INLET, PIPE	1		117										1																											
F																																											
P	S-312	610+20.00	LT	INLET, PIPE	1						265								1																										
F																																											
P	S-313	610+20.00	RT	INLET, PIPE	1		66										1																											
F																																											
P	S-314	612+96.00	LT	INLET																										1												8.6	
F																																											
P	S-314A	8+90.00 @ ADA	RT	INLET, PIPE	1		70																					1															
F																																											
P	S-314B	612+96.00	LT	INLET, PIPE	1						269								1																										
F																																											
P	S-314C	614+50.00	LT	INLET, PIPE	1						152								1																										
F																																											
P	S-315	615+00.00	LT	INLET, PIPE	1						46									1																										
F																																											
P	S-315A	615+00.00	LT	INLET																										1												8.6	
F																																											
P	S-316	615+00.00	RT	INLET, PIPE	1		62											1																										
F																																											
SHEET TOTALS		PLAN QUANT.					1031	163			732	1352				68	7	6	4	2			1	5			1	1		2	2		1		2			307.5	61308	74.8	53.7	25.8	
		FINAL QUANT.																																									

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ASTEVANU

SUMMARY OF DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 15

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL PIPE											CURB INLET					MH					DITCH BOTTOM INLET				JUNCTION BOX		MES				U-END WALL		CONCRETE		REINF STEEL	RIP RAP	BEDDING STONE	RAILING	REMARKS
						ROUND SHAPE							OTHER																			CROSS DRAIN													
						UP TO 24"			25" TO 36"		37" TO 48"		UP TO 24"			37" TO 48"	P-5	P-6	J-5	J-6	FLUME	P-8	P-8	J-7	J-8	J-8	C	C MOD	C MOD	C MOD	J-7	P-7	ROUND		OTHER		1:3		CLASS II EW	CLASS IV CULV	RDWY	DITCH LINING		PED/ BIKE	
						12"	18"	24"	30"	36"	42"	48"	15"	18"	24"	42"	<10	<10	<10	<10	SINGLE	<10	PART	<10	<10	>10	<10	<10	J, <10	PART	<10	PARTIAL	42"	48"	18"	42"	18"	24"	CY	CY	LB	TN	TN	LF	
P	S-316A	616+40.00	RT	INLET, PIPE	1		137										1												1														
F																																												
P	S-317	618+00.00	LT	INLET, PIPE	1					297									1																									
F																																												
P	S-317A	618+00.00	LT	INLET																									1													8.6	
F																																												
P	S-318	618+00.00	RT	INLET, PIPE	1		63										1																										
F																																												
P	S-319A	621+70.00	LT	INLET, PIPE	1					377									1																									
F																																												
P	S-319	622+00.00	LT	INLET, PIPE	1					27										1																								
F																																												
P	S-320	622+00.00	RT	INLET, PIPE	1				62											1																								
F																																												
P	S-320A	622+50.00	RT	INLET, PIPE	1				46								1																										
F																																												
P	S-321	624+00.00	RT	INLET, PIPE	1				147										1																									
F																																												
P	S-322	20+95.00 @ LEE	RT	MH, PIPE	1			38														1																					
F																																												
P	S-323	21+25.00 @ LEE	LT	INLET, PIPE	1		15																					1															
F																																												
P	S-324	21+25.00 @ LEE	LT	INLET, PIPE	1		54											1																									
F																																												
P	S-325	21+25.00 @ LEE	RT	INLET, PIPE	1			29										1																									
F																																												
P	S-326	22+89.92 @ LEE	LT	INLET																									1													8.6	
F																																												
P	S-327	22+89.92 @ LEE	LT	INLET, PIPE	1		166													1																								CIP, CONFLICT STR
F																																												
P	S-328	23+56.00 @ LEE	LT	INLET, PIPE	1		63																					1													8.6	
F																																												
P	S-329	24+70.00 @ LEE	LT	INLET, PIPE	1		111																					1													8.6	
F																																												
P	S-330	6+39.62 @ LIV	RT	ENDWALL	1																																	1						
F																																												
P	S-331	12+84.34 @ LIV	RT	ENDWALL																																		1				4.6	3.3		
F																																												
P	S-400A	15+78.20 @ ALA	LT	INLET, PIPE										4															1													8.6	
F																																												
P	S-400	16+28.24 @ ALA	LT	INLET, PIPE	1		33										1																										
F																																												
P	S-401	16+62.58 @ ALA	LT	INLET, PIPE	1		71																						1													8.6	
F																																												
P	S-402	16+13.00 @ ALA	RT	INLET, PIPE	1		37										1																										CONFLICT STR.
F																																												
P	S-403	17+35.00 @ ALA	LT	INLET, PIPE	1		65																						1													8.6	
F																																												
P	S-404	17+95.00 @ ALA	LT	INLET, PIPE	1		113																						1													8.6	
F																																												
P	S-405	18+97.60 @ ALA	LT	INLET, PIPE	1		134																						1													8.6	
F																																												
P	S-406	18+97.60 @ ALA	RT	INLET, PIPE	1		48											1																									
F																																												
P	S-407	626+40.00	LT	INLET, PIPE	1			156																					1													8.6	
F																																												
P	S-408	626+40.00	RT	INLET, PIPE	1				157								1																									
F																																												
P	S-410	628+00.00	LT	INLET, PIPE	1				48											1																								
F																																												
P	S-411	628+00.00	RT	INLET, PIPE	1				59									1																									
F																																												
P	S-412	628+52.43	LT	MH, PIPE	1				17																1																	
F																																												
P	S-413	629+00.00	RT	INLET, PIPE	1			98																					1													8.6	
F																																												
SHEET TOTALS	PLAN QUANT.					1110	321	536	701				4				6	4	3	4		1			1		1	8	1	2							1	1			4.6	3.3	94.6	
	FINAL QUANT.																																											

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PUBLIC WORKS
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1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ASTEVANU

SUMMARY OF DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 16

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL PIPE											CURB INLET					MH					DITCH BOTTOM INLET				JUNCTION BOX		MES				U-END WALL		CONCRETE		REINF STEEL	RIP RAP	BEDDING STONE	RAILING	REMARKS
						ROUND SHAPE							OTHER																			CROSS DRAIN						CLASS II EW	CLASS IV CULV						
						UP TO 24"			25" TO 36"		37" TO 48"		UP TO 24"			37" TO 48"																	ROUND		OTHER		1:3							
						12"	18"	24"	30"	36"	42"	48"	15"	18"	24"	42"	P-5	P-6	J-5	J-6	FLUME	P-8	P-8	J-7	J-8	J-8	C	C MOD	C MOD	C MOD	J-7	P-7	42"	48"	18"	42"	18"	24"	CY	CY	LB	TN	TN	LF	
						<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	SINGLE	<10	PART	<10	<10	>10	<10	<10	J, <10	PART	<10	PARTIAL												
P	S-414	630+44.00	LT	PIPE, INLET, PIPE	1		188						4																1													8.6	CIP
F																																												
P	S-415	631+20.00	RT	INLET, PIPE	1			218																			1															8.6	
F																																												
P	S-417	631+56.41	RT	J-BOX, PIPE	1									36																	1												
F																																												
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SHEET TOTALS	PLAN QUANT.						188	218					4	36														1	1		1												17.2	
	FINAL QUANT.																																											
GRAND TOTALS	PLAN QUANT.	9	4170	2784	1909	3888	1817	56	4	201	658	68	42	21	16	11	1	2	1	5	2	1	4	10	2	4	2	1	1	1	2	2	1	1	32.69	370.8	74252	109.2	78.5	146.2	
	FINAL QUANT.																																											

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PUBLIC WORKS
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SOUTHWEST
FLORIDA
1500 MONROE STREET
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DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

ASTEVANU

9/19/2016 1:05:59 PM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\drainage\sumdr01.dgn

SUMMARY OF DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 17

BEGIN PROJECT
℄ CONST. HOMESTEAD RD.
STA. 513+40.00

POT STA. 500+00.00

500

N 01° 03' 06" W

POT STA. 53+31.00

BEGIN ℄ SURVEY HOMESTEAD RD.
STA. 53+31.00 =
℄ CONST. HOMESTEAD RD.
STA. 507+34.23

24

510

60

25

℄ SURVEY

520

℄ CONST.

N 00° 03' 06" W

70

N 01° 03' 06" W

HOMESTEAD ROAD

26

530

27

℄ CONST. HOMESTEAD RD.
POT STA. 510+57.76 =
℄ SURVEY HOMESTEAD RD.
POT STA. 56+54.54

℄ CONST. HOMESTEAD RD.
STA. 535+69.57 =
℄ SURVEY HOMESTEAD RD.
STA. 81+73.27

℄ CONST. HOMESTEAD RD.
STA. 533+18.23 =
℄ SURVEY HOMESTEAD RD.
STA. 79+10.89

PC STA. 530+83.23

PC STA. 79+50.48

80

C-1

CL-1

PT STA. 80+56.77

PT STA. 536+33.18

28

540

N 45° 15' 49" W

N 45° 25' 19" W

29

90

℄ CONST. HOMESTEAD RD.
POT STA. 546+22.58 =
℄ SURVEY HOMESTEAD RD.
POT STA. 92+26.20

SUNRISE BLVD.

BEGIN ℄ SUNRISE BLVD.
STA. 5+38.10

43

STA. 551+17.49

POT STA. 96+90.36

30

POT

550

100

N 45° 16' 10" W

N 44° 27' 12" W

℄ SURVEY

31

560

N 45° 22' 10" W

℄ CONST.

32

110

MATCHLINE STA. 565+00.00

℄ CONST. HOMESTEAD RD.
STA. 546+61.37 =
℄ CONST. SUNRISE BLVD.
STA. 10+00.00

PC STA. 10+66.88

CSUN

END ℄ SUNRISE BLVD.
PT STA. 13+46.20

0 100 500
Feet

MATCHLINE STA. 565+00.00

32

570

10

N 45° 22' 10" W

VETERANS PARK

MARBLE BROOK LN.

BEGIN ℄ MARBLE BROOK LN.
STA. 6+58.66

CMAR

44

33

PT STA. 9+00.10

120

34

580

HOMESTEAD ROAD

130

35

VETERANS ACADEMY

℄ CONST. HOMESTEAD RD.
STA. 570+78.89 =
℄ CONST. MARBLE BROOK LN.
STA. 10+00.00

END ℄ MARBLE BROOK LN.
STA. 11+75.00

℄ CONST. HOMESTEAD RD.
STA. 585+19.16 =
℄ CONST. VETERANS ACADEMY
STA. 10+00.00

45

℄ SURVEY

PC STA. 10+44.36

CVET

END ℄ VETERANS ACADEMY
STA. 11+46.41

N 44° 22' 10" W

POT STA. 587+96.19

590

POT STA. 591+91.18

140

36

PINEWOOD BLVD.

℄ CONST. HOMESTEAD RD.
STA. 604+94.90 =
℄ CONST. ANDROS ST.
STA. 10+00.00

N 45° 16' 10" W

37

600

N 45° 20' 17" W

POT STA. 600+38.09

℄ CONST.

N 46° 16' 10" W
℄ CONST.

℄ CONST. HOMESTEAD RD.
POT STA. 603+68.23 =
℄ SURVEY HOMESTEAD RD.
POT STA. 149+71.69

N 45° 16' 10" W
℄ SURVEY & ℄ CONST.

150

38

℄ CONST. HOMESTEAD RD.
STA. 605+95.48 =
℄ LIVE OAK CANAL
STA. 20+00.00

℄ CONST. HOMESTEAD RD.
STA. 608+72.82 =
℄ CONST. ARTHUR AVE.
STA. 10+00.00

BEGIN ℄ ANDROS ST.
STA. 8+27.79

ANDROS ST.

BEGIN ℄ LIVE OAK CANAL
STA. 5+50.00

LIVE OAK CANAL

01

ARTHUR AVE.

47

610

ARTHUR AVE.

POT STA. 609+62.40

ADAMS AVE.

N 44° 21' 02" W

END ℄ ARTHUR AVE.
STA. 12+40.48

℄ CONST. HOMESTEAD RD.
POT STA. 606+65.42 =
℄ SURVEY HOMESTEAD RD.
POT STA. 152+68.88

48

ADAMS AVE.

160

N 45° 15' 31" W

N 45° 21' 02" W

℄ CONST. HOMESTEAD RD.
STA. 624+88.99 =
℄ CONST. ALABAMA RD.
PT STA. 20+00.00

℄ CONST. HOMESTEAD RD.
STA. 624+94.58 =
℄ CONST. LEELAND
HEIGHTS BLVD.
PC STA. 20+00.00

℄ CONST. HOMESTEAD RD.
STA. 612+91.30 =
℄ CONST. ADAMS AVE.
STA. 10+00.00

END ℄ ADAMS AVE.
STA. 12+70.03

BEGIN ℄ ARTHUR AVE.
STA. 7+17.14

END PROJECT
℄ CONST. HOMESTEAD RD.
STA. 632+95.95

BEGIN ℄ ALABAMA RD.
STA. 10+00.00

10

S 45° 21' 02" E

49

ALABAMA RD.

℄ CONST. ALABAMA RD.
STA. 15+96.49 =
℄ CONST. ARIZONA RD.
STA. 10+00.00

BEGIN ℄ ARIZONA RD.
STA. 6+53.05

ARIZONA RD.

PC STA. 17+44.92

WESTMINSTER ST.*

52

51

CALA

CLEE

53

54

BEGIN ℄ ADAMS AVE.
STA. 7+12.86

40

170

620

630

41

42

180

POT STA. 182+00.00

POT STA. 635+96.60

ASHLAR AVE.*

N 45° 22' 31" W
℄ CONST.

℄ CONST. HOMESTEAD RD.
POT STA. 630+10.33 =
℄ SURVEY HOMESTEAD RD
POT STA. 176+13.73

N 46° 21' 02" W ℄ CONST.

POT STA. 629+10.32

POT STA. 174+55.44

PT STA. 21+59.58

DELAWARE RD.*

LEELAND HEIGHTS BLVD.

50

END ℄ LEELAND HEIGHTS BLVD.
STA. 28+00.00

0 100 500
Feet

*PLEASE REFER TO SIDE STREET PLAN AND PROFILE SHEET TO FIND ALIGNMENT INFORMATION FOR DELAWARE RD., WESTMINSTER ST., AND ASHLAR AVE.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

PROJECT LAYOUT
HOMESTEAD ROAD

SHEET NO.
18

EGILBERT 9/19/2016 PW:\202116\0000000003055\13.00_CAD\Homestead\roadway\playrd01.dgn

CURVE AND COORDINATE DATA

CURVE NO.	ALIGNMENT	P.O.T.			P.C.			P.I.			P.T.			DELTA	D	T	L	R	BACK BEARING	AHEAD BEARING	e	DESIGN SPEED MPH
		STATION	NORTH	EAST	STATION	NORTH	EAST	STATION	NORTH	EAST	STATION	NORTH	EAST									
	℄ SURVEY	53+31.00	815,840.8840	778,579.2460																		
C-1	℄ SURVEY				79+50.48	818,459.9182	778,531.1679	80+06.43	818,515.8600	778,530.1410	80+56.77	818,555.2410	778,490.3959	44° 12' 43" LT	41° 35' 39"	55.95'	106.29'	137.75'	N 1° 03' 06" W	N 45° 15' 49" W		
	℄ SURVEY	97+90.36	819,775.4210	777,258.9360																		
	℄ SURVEY	152+68.88	823,631.0620	773,366.8640																		
	℄ SURVEY	174+55.44	825,170.1950	771,813.7720																		
	℄ SURVEY	182+00.00	825,693.2180	771,283.8500																		
	℄ CONST.	500+00.00	815,106.7821	778,592.7220																		
	℄ CONST.	510+57.76	816,164.3648	778,573.3078																		
CL1	℄ CONST.				530+83.23	818,189.8362	778,571.4812	533+73.54	818,480.1382	778,571.2194	536+33.18	818,683.8952	778,364.4385	45° 22' 13" LT	8° 15' 00"	290.30'	549.94'	694.49'	N 0° 03' 06" W	N 45° 25' 19" W	0.05	45
	℄ CONST.	546+22.58	819,378.3400	777,659.6878																		
	℄ CONST.	551+17.49	819,731.6177	777,313.0896																		
	℄ CONST.	587+96.19	822,316.0235	774,695.1413																		
	℄ CONST.	591+91.18	822,598.3795	774,418.9328																		
	℄ CONST.	600+38.09	823,193.6919	773,816.5536																		
	℄ CONST.	603+68.23	823,421.9074	773,577.9948																		
	℄ CONST.	606+65.42	823,631.0620	773,366.8640																		
	℄ CONST.	609+62.40	823,843.4236	773,159.2631																		
	℄ CONST.	629+10.32	825,212.3628	771,773.4708																		
	℄ CONST.	630+10.33	825,281.3904	771,701.1099																		
	℄ CONST.	635+96.60	825,693.2208	771,283.8472																		
	℄ SUNRISE BLVD.	5+38.10	819,077.3069	777,308.0379																		
	℄ SUNRISE BLVD.	10+00.00	819,406.0247	777,632.5265																		
CSUN	℄ SUNRISE BLVD.				10+66.88	819,452.8262	777,680.3051	12+07.24	819,551.0422	777,780.5715	13+46.20	819,622.1560	777,901.5780	13° 57' 58" RT	5° 00' 00"	140.36'	279.32'	1,145.92'	N 45° 35' 31" E	N 59° 33' 28" E	NC	
CMAR	℄ MARBLE BROOK LN.				6+58.66	820,913.4054	775,643.2912	7+81.78	820,950.8438	775,760.5801	9+00.10	821,038.4617	775,847.0754	27° 39' 59" LT	11° 27' 33"	123.12'	241.44'	500.00'	N 72° 17' 49" E	N 44° 37' 50" E	RC	
	℄ MARBLE BROOK LN.	10+00.00	821,109.5603	775,917.2630																		
	℄ MARBLE BROOK LN.	11+75.00	821,234.0992	776,040.2062																		
	℄ VETERANS ACADEMY	10+00.00	822,121.4000	774,892.2908																		
CVET	℄ VETERANS ACADEMY				10+44.36	822,152.9661	774,923.4524	10+95.49	822,189.3552	774,959.3752	11+46.41	822,219.7000	775,000.5310	8° 58' 03" RT	8° 47' 12"	51.13'	102.06'	652.08'	N 44° 37' 50" E	N 53° 35' 53" E	NC	
	℄ ANDROS ST.	8+27.79	823,370.6709	773,388.2553																		
	℄ ANDROS ST.	10+00.00	823,511.0584	773,488.0015																		
	℄ ARTHUR AVE.	7+17.14	823,774.7478	772,939.0623																		
	℄ ARTHUR AVE.	10+00.00	823,779.3678	773,221.8830																		
	℄ ARTHUR AVE.	12+40.48	823,783.2956	773,462.3333																		
	℄ ADAMS AVE.	7+12.86	824,069.8728	772,638.1783																		
	℄ ADAMS AVE.	10+00.00	824,074.5626	772,925.2785																		
	℄ ADAMS AVE.	12+70.03	824,078.9732	773,195.2763																		
	℄ ALABAMA RD.	10+00.00	823,954.7929	771,949.3776																		
CALA	℄ ALABAMA RD.				17+44.92	824,699.6667	771,957.7440	18+83.18	824,837.9176	771,959.2968	20+00.00	824,916.2607	772,073.2182	54° 50' 25" RT	21° 29' 58"	138.26'	255.08'	266.50'	N 0° 38' 37" E	N 55° 29' 02" E	RC	
CLEE	℄ LEELAND HEIGHTS BLVD.				20+00.00	824,920.1947	772,069.2359	20+82.16	824,967.0104	772,136.7513	21+59.58	824,968.6213	772,218.8943	33° 36' 52" RT	21° 03' 53"	82.16'	159.58'	272.00'	N 55° 15' 44" E	N 88° 52' 36" E	RC	
	℄ LEELAND HEIGHTS BLVD.	28+00.00	824,981.1775	772,859.1941																		
	℄ DELAWARE RD.	10+00.00	825,084.5903	771,902.8164																		
CDEL	℄ DELAWARE RD.				10+78.82	825,140.6631	771,958.2073	11+16.78	825,167.6726	771,984.8884	11+52.84	825,204.6300	771,993.5802	31° 24' 54" LT	42° 26' 29"	37.97'	74.02'	135.00'	N 44° 38' 58" E	N 13° 14' 05" E	RC	
	℄ WESTMINISTER ST.	7+10.00	825,027.4198	771,580.4464																		
CWES	℄ WESTMINISTER ST.				7+31.48	825,048.8988	771,580.8032	8+26.40	825,143.8040	771,582.3798	9+13.29	825,214.7974	771,645.3831	40° 38' 09" RT	22° 21' 02"	94.92'	181.81'	256.35'	N 0° 57' 06" E	N 41° 35' 15" E	NC	
	℄ WESTMINISTER ST.	10+00.00	825,279.6487	771,702.9356																		
	℄ ASHLAR AVE.	10+00.00	825,398.1595	771,582.8005																		
CASH	℄ ASHLAR AVE.				10+73.51	825,454.0999	771,630.4850	11+24.04	825,492.5597	771,663.2688	11+70.50	825,543.0918	771,663.9288	39° 41' 48" LT	40° 55' 32"	50.54'	97.00'	140.00'	N 40° 26' 41" E	N 0° 44' 54" E	NC	
	℄ ASHLAR AVE.	12+70.97	825,643.5512	771,665.2409																		
	℄ ARIZONA RD.	6+53.05	824,307.4238	772,202.9033																		
	℄ ARIZONA RD.	10+00.00	824,551.2484	771,956.0770																		
	℄ LIVE OAK CANAL	5+50.00	823,558.7150	771,966.7319																		
	℄ LIVE OAK CANAL	20+00.00	823,581.8437	773,416.5474																		

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

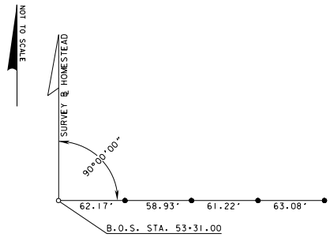
Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

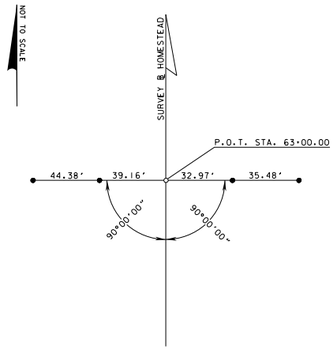
DEPARTMENT
of
TRANSPORTATION

CURVE COORDINATE DATA
HOMESTEAD ROAD

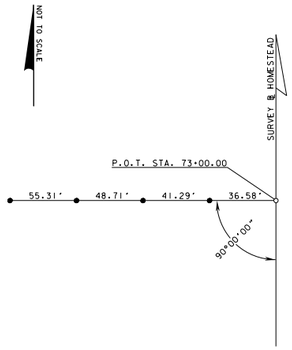
SHEET NO. 19



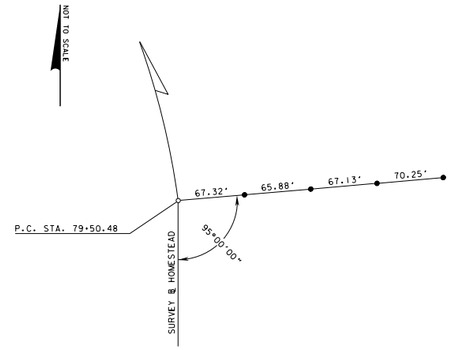
B.O.S. STA. 53+31.00
HOMESTEAD RD.



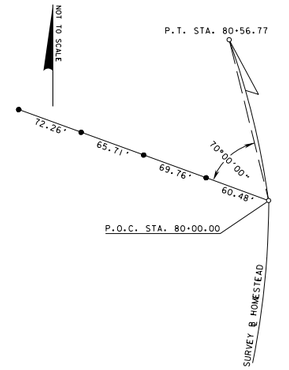
P.O.T. STA. 63+00.00
HOMESTEAD RD.



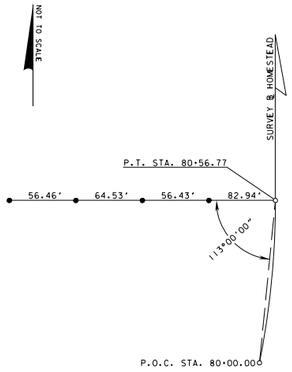
P.O.T. STA. 73+00.00
HOMESTEAD RD.



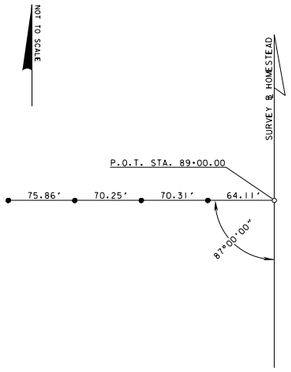
P.C. STA. 79+50.48
HOMESTEAD RD.



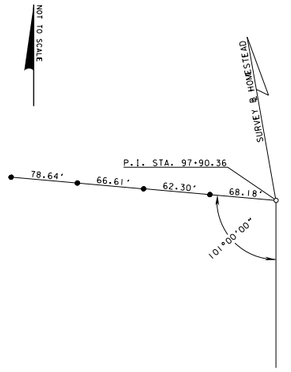
P.O.C. STA. 80+00.00
HOMESTEAD RD.



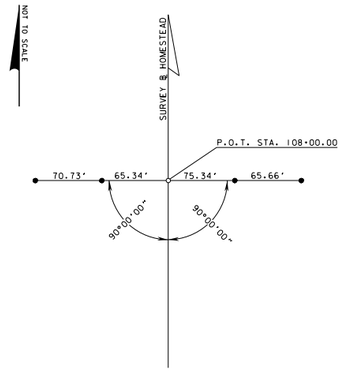
P.T. STA. 80+56.77
HOMESTEAD RD.



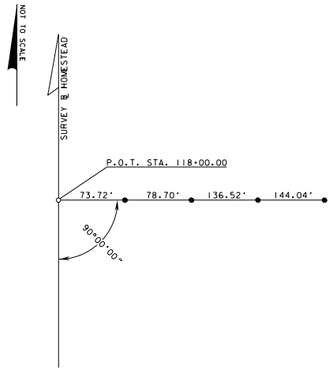
P.O.T. STA. 89+00.00
HOMESTEAD RD.



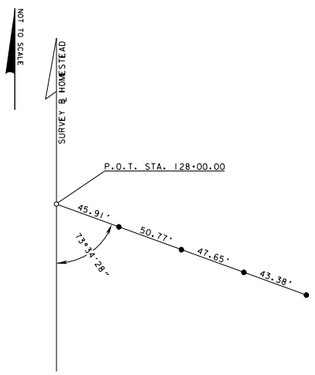
P.I. STA. 97+90.36
HOMESTEAD RD.
(NO CURVE)



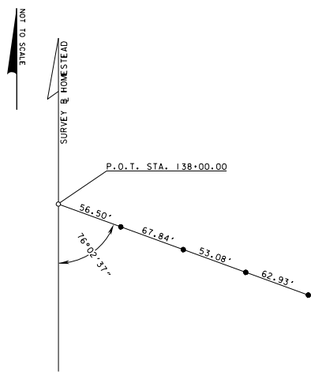
P.O.T. STA. 108+00.00
HOMESTEAD RD.



P.O.T. STA. 118+00.00
HOMESTEAD RD.



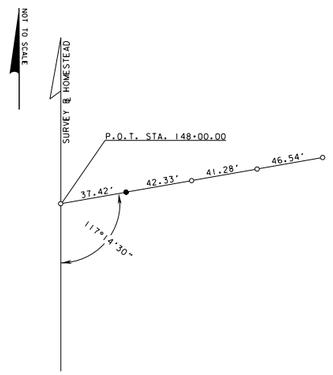
P.O.T. STA. 128+00.00
HOMESTEAD RD.



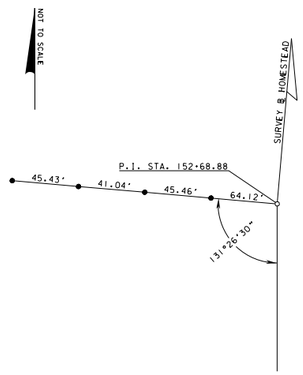
P.O.T. STA. 138+00.00
HOMESTEAD RD.

LEGEND

- ○ - SET PK NAIL & DISK "LB 6566" UNLESS OTHERWISE NOTED
- ● - SET 5/8" IRON ROD & CAP "LB 6566" UNLESS OTHERWISE NOTED
- ℄ - BASE LINE



P.O.T. STA. 148+00.00
HOMESTEAD RD.



P.I. STA. 152+68.88
HOMESTEAD RD.
(NO CURVE)

REVISIONS

DATE	BY	DESCRIPTION
07/10/07	CJB	ORIGINAL DESIGN

SCOT A. CARPENTER, PSM
P.S.M. NO. 6177
DATE

McKIM & CREED ENGINEERS SURVEYORS PLANNERS

SCOT A. CARPENTER, PSM
P.S.M. NO. 6177
McKIM AND CREED, PA
3903 NORTHDALE BLVD., STE 140W
TAMPA, FL 33624
CERTIFICATE OF AUTHORIZATION,
LB NO. 7917

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

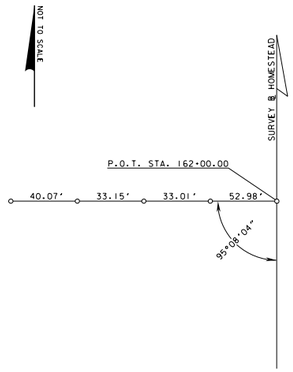
CBOSSHART

SURVEY REFERENCE POINTS
HOMESTEAD ROAD

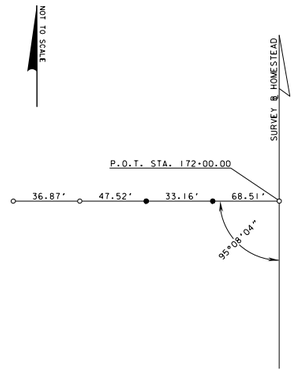
SHEET NO.
20

11/15/07 2:00 P.M. U:\1183\0021\84-Survey

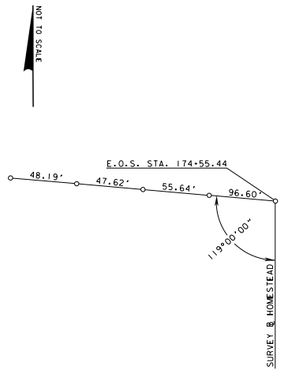
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G17-6, F.A.C.



P.O.T. STA. 162+00.00
HOMESTEAD RD.



P.O.T. STA. 172+00.00
HOMESTEAD RD.



E.O.S. STA. 174+55.44
HOMESTEAD RD.

LEGEND

- ○ - SET PK NAIL & DISK "LB 6566" UNLESS OTHERWISE NOTED
- ● - SET 5/8" IRON ROD & CAP "LB 6566" UNLESS OTHERWISE NOTED
- ℄ - BASE LINE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G17-6, F.A.C.

REVISIONS

DATE	BY	DESCRIPTION
07/10/07	CJB	ORIGINAL DESIGN

SCOT A. CARPENTER, PSM
P.S.M. NO. 6177
DATE

McKIM & CREED ENGINEERS SURVEYORS PLANNERS
SCOT A. CARPENTER, PSM
P.S.M. NO. 6177
McKIM AND CREED, PA
3903 NORTHDALE BLVD., STE 140W
TAMPA, FL 33624
CERTIFICATE OF AUTHORIZATION,
LB NO. 797

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
DEPARTMENT
of
TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

CBOSSHART 11/15/07 2:00 P.M. U:\1183\0021\84-Survey

SURVEY REFERENCE POINTS
HOMESTEAD ROAD

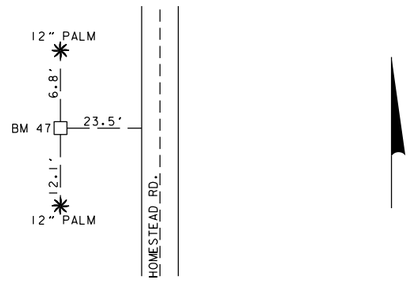
SHEET NO. 21

LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 47 Elevation feet: 31.021'
State Road No.: N/A County: LEE
Section: 9 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 815312 E (X): = 778554
Base Line Station and Offset: OUTSIDE PROJECT LIMITS
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 47"

Distance and Direction from Nearest Intersection: 2.3 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

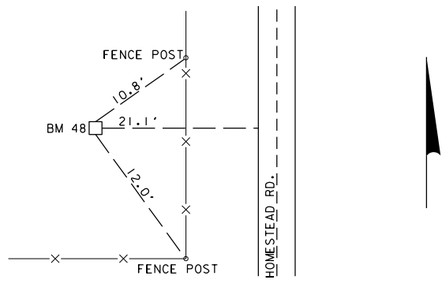


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 48 Elevation feet: 30.352'
State Road No.: N/A County: LEE
Section: 9 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 816353 E (X): = 778539
Base Line Station and Offset: @ STA. 58+43 O/S 30.6' LT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 48"

Distance and Direction from Nearest Intersection: 2.1 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

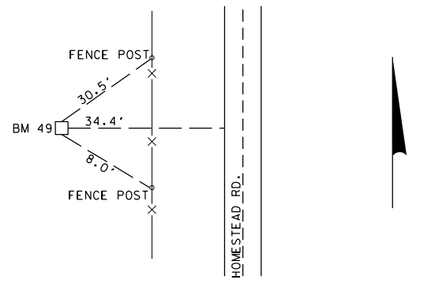


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 49 Elevation feet: 28.562'
State Road No.: N/A County: LEE
Section: 9 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 817310 E (X): = 778506
Base Line Station and Offset: @ STA. 68+01 O/S 46.4' LT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 49"

Distance and Direction from Nearest Intersection: 1.9 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

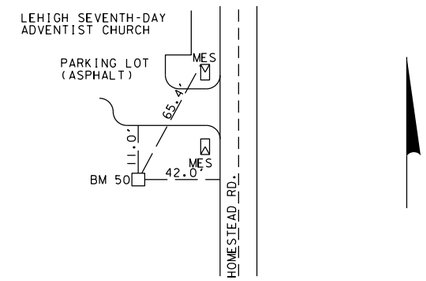


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 50 Elevation feet: 30.215'
State Road No.: N/A County: LEE
Section: 4 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 818868 E (X): = 778100
Base Line Station and Offset: @ STA. 85+54 O/S 52.3' LT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 50"

Distance and Direction from Nearest Intersection: 1.6 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

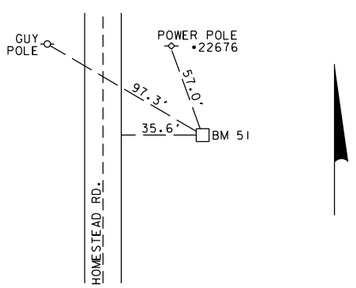


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 51 Elevation feet: 27.648'
State Road No.: N/A County: LEE
Section: 5 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 819859 E (X): = 777247
Base Line Station and Offset: @ STA. 98+58 O/S 50.8' RT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 51"

Distance and Direction from Nearest Intersection: 1.4 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

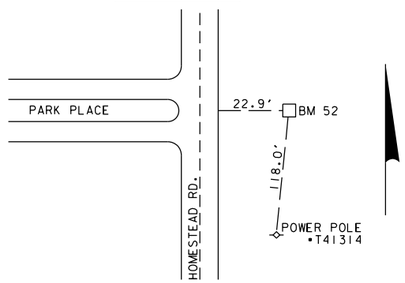


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 52 Elevation feet: 27.193'
State Road No.: N/A County: LEE
Section: 5 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 820648 E (X): = 776426
Base Line Station and Offset: @ STA. 109+96 O/S 33.8' RT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 52"

Distance and Direction from Nearest Intersection: 1.2 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

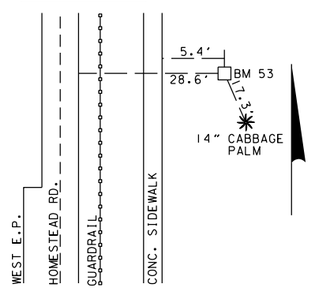


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 53 Elevation feet: 26.898'
State Road No.: N/A County: LEE
Section: 5 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 821521 E (X): = 775557
Base Line Station and Offset: @ STA. 122+28 O/S 42.8' RT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 53"

Distance and Direction from Nearest Intersection: 0.9 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

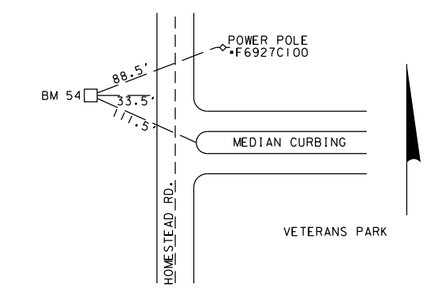


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 54 Elevation feet: 26.024'
State Road No.: N/A County: LEE
Section: 5 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 822112 E (X): = 774813
Base Line Station and Offset: @ STA. 131+73 O/S 61.5' LT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 54"

Distance and Direction from Nearest Intersection: 0.7 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch



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REVISIONS

DATE	BY	DESCRIPTION
07/10/07	CJB	ORIGINAL DESIGN

SCOT A. CARPENTER, PSM P.S.M. NO. 6177 DATE

McKIM & CREED ENGINEERS SURVEYORS PLANNERS
SCOT A. CARPENTER, PSM
P.S.M. NO. 6177
McKIM AND CREED, PA
3903 NORTHDALE BLVD., STE 140W
TAMPA, FL 33624
CERTIFICATE OF AUTHORIZATION, LB NO. 7917

PUBLIC WORKS
LEE COUNTY SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

VERTICAL DATA SHEETS
HOMESTEAD ROAD

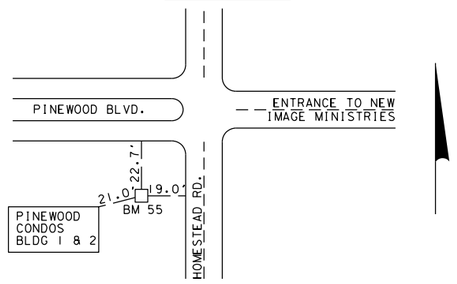
SHEET NO. 22

LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 55 Elevation feet: 25.799'
State Road No.: N/A County: LEE
Section: 5 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 822737 E (X): = 774218
Base Line Station and Offset: @ STA. 140+35 O/S 36.3' LT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 55"

Distance and Direction from Nearest Intersection: 0.6 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

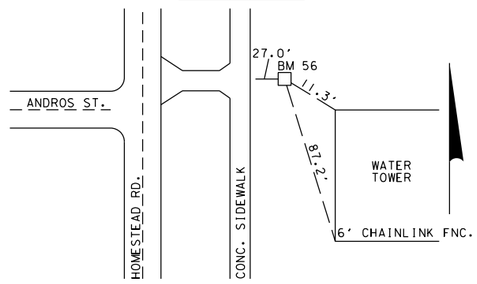


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 56 Elevation feet: 26.100'
State Road No.: N/A County: LEE
Section: 5 Township: 45 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 823562 E (X): = 773518
Base Line Station and Offset: @ STA. 151+13 O/S 57.1' RT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 56"

Distance and Direction from Nearest Intersection: 0.4 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

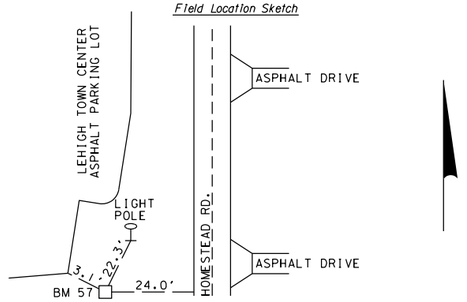


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 57 Elevation feet: 27.450'
State Road No.: N/A County: LEE
Section: 32 Township: 44 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 824157 E (X): = 772770
Base Line Station and Offset: @ STA. 160+63 O/S 46.0' LT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 57"

Distance and Direction from Nearest Intersection: 0.2 MILES SOUTH ALONG HOMESTEAD RD. FROM THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch

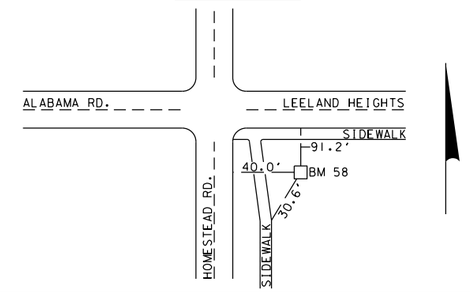


LEE COUNTY, FLORIDA
Vertical Control Data Sheet
DATUM
NGVD 1929 X
NAVD 1988 ___

Monument Name or Designation: BM 58 Elevation feet: 27.282'
State Road No.: N/A County: LEE
Section: 32 Township: 44 Range: 27E Roadway Section I.D.: N/A
Establishing Firm: McKIM AND CREED Financial Project ID: N/A
Established: 4 / 18 /2007 Recovered: / / Field Book No.: 88-0205
State Plane Coordinates:
(Nearest Foot) N (Y): = 824855 E (X): = 772206
Base Line Station and Offset: @ STA. 169+55 O/S 52.3' RT.
Description of Monument: SET 4" X 4" CONC. MON. WITH McKIM AND CREED DISK STAMPED "BM 58"

Distance and Direction from Nearest Intersection: BENCH MARK IS LOCATED IN THE SOUTH EAST QUADRANT OF THE INTERSECTION OF HOMESTEAD RD. AND LEELAND HEIGHTS.

Field Location Sketch



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REVISIONS

DATE	BY	DESCRIPTION
07/10/07	CJB	ORIGINAL DESIGN

SCOT A. CARPENTER, PSM DATE
P.S.M. NO. 6177

McKIM & CREED ENGINEERS SURVEYORS PLANNERS
SCOT A. CARPENTER, PSM
P.S.M. NO. 6177
McKIM AND CREED, PA
3903 NORTHDALE BLVD., STE 140W
TAMPA, FL 33624
CERTIFICATE OF AUTHORIZATION,
LB NO. 7917

PUBLIC WORKS
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SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

VERTICAL DATA SHEETS
HOMESTEAD ROAD

SHEET NO. 23

CROSSHART 11/15/07 2:00 P.M. U:\ll83\002\\84-Survey

PROJECT NOTES

1. THE ROAD CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE APPROPRIATE ROADWAY AND TRAFFIC DESIGN STANDARDS AS LISTED ON KEY SHEET.

2. COPIES OF THESE PLANS AS DESIGNED BY THE PROFESSIONAL ENGINEER HAVE BEEN RETAINED BY THE PROFESSIONAL ENGINEER AND HE WILL NOT BE RESPONSIBLE FOR ANY SUBSEQUENT CHANGES TO THE REPRODUCIBLE ORIGINAL DOCUMENTS.

3. ROADWAY IS SYMMETRICAL ABOUT CENTERLINE UNLESS OTHERWISE SHOWN ON PLANS AND CROSS SECTIONS. THE STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.

4. POSSIBLE TREE TRIMMING AND REMOVAL MAY BE REQUIRED TO PROVIDE ADEQUATE SIGHT DISTANCE PER INDEX 546, OR AS DIRECTED BY THE ENGINEER. ALL EXPENSES INCURRED FOR THIS WORK WILL BE INCLUDED IN THE PRICE BID FOR CLEARING & GRUBBING.

5. WHERE CONNECTION TO EXISTING DRIVEWAY IS NOT INDICATED ON THE PLANS, PROPER CONNECTION IS TO BE MADE PER INDEX 515 OR AS DIRECTED BY THE ENGINEER.

6. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN EITHER: IN THE PLANS OR AS REFERENCED IN ANY LEE COUNTY DEPARTMENT OF TRANSPORTATION APPROVED APPRAISAL OF THE SUBJECT PROPERTY.

7. ALL PERMANENT/TEMPORARY MAILBOX LOCATIONS SHALL COMPLY AS DIRECTED BY THE POSTMASTER.

8. IN THE EVENT EXCAVATION OF UNSUITABLE MATERIAL IS REQUIRED, IT MAY BE USED TO FLATTEN SLOPES IN AREAS IN ACCORDANCE WITH FDOT INDEX 500.

9. THE CONTRACTOR SHALL PROVIDE BORROW MATERIAL FROM BORROW PITS APPROVED BY THE ENGINEER, AND INCORPORATE IT INTO THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

10. THE CONTRACTOR SHALL SUPPLY CONTROL POINTS FOR LINE AND GRADE.

11. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE STAKEOUT OF THE PROJECT, I.E., LINE, GRADE, SLOPE STAKE, UTILITY RELOCATIONS OR ANY OTHER STAKEOUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION LAYOUT.

12. OVERALL CLEAN-UP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH COUNTY STANDARDS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.

13. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY, ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND PROPERTY OWNER AT THE CONTRACTOR'S EXPENSE. PAYMENT SHALL NOT BE MADE FOR THIS WORK.

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

15. ALL SIDEWALKS MUST MEET ADA STANDARDS.

16. ALL SIDEWALK CURB RAMPS AND DETECTABLE WARNINGS SHALL BE PER INDEX 304.

17. ANY U.S.C. & G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, CONTRACTOR SHALL NOTIFY:

    DIRECTOR, CHARTING & GEODETIC SERVICES
    6801 EXECUTIVE BLVD.
    ATTN: CI72
    ROCKVILLE, MARYLAND 20852
    PHONE: (301) 443-8319

PROJECT NOTES (CONT.)

18. ANY SURVEY MARKERS, INCLUDING BUT NOT LIMITED TO SECTION MARKERS, BENCHMARKS, LOT CORNERS, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE PRIOR TO FINAL PAYMENT. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF FLORIDA AND SHOWN ON THE AS-BUILT PLANS AS RESET.

19. BEARINGS, DISTANCES AND COORDINATES SHOWN HEREON ARE ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH 1999 ADJUSTMENT.

20. THE ELEVATIONS SHOWN HEREON ARE ON THE NATIONAL GEODECTIC VERTICAL DATUM OF 1929 (NGVD 29). ANY NGVD 29 OR NAVD 88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY LEE COUNTY SURVEY DEPARTMENT.

21. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE PREPARED IN ACCORDANCE WITH SECTION 104. THE NOTICE OF INTENT SHALL BE PREPARED FOR THE NPDES STORMWATER PERMIT AND SUBMITTED TO OBTAIN PERMIT COVERAGE. FULL COMPENSATION FOR ALL ITEMS AND WORK SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC.

22. DISPOSAL OF MILLED MATERIAL, EXCAVATED MATERIAL, DEBRIS AND CONCRETE REMOVABLE ITEMS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER BY THE CONTRACTOR. DO NOT DEPOSIT MATERIALS CLEARED FROM SITE ONTO ADJACENT PROPERTY. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS REMOVED FROM SITE.

23. IF THE CONTRACTOR ELECTS TO UTILIZE OFF-DUTY LAW ENFORCEMENT OFFICERS FOR WORK, THE COST OF OFF-DUTY OFFICERS SHALL BE INCLUDED IN THE COST OF THE WORK ELEMENT BEING PERFORMED.

24. THE CONTRACTOR SHALL FURNISH THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE.

25. CONTRACTOR TO RESTORE ALL LANDSCAPE AREAS WITHIN SLOPE EASEMENTS OR ON PRIVATE PROPERTY TO PRE-CONSTRUCTION CONDITION, INCLUDING ANY IRRIGATION AND MULCHING AT THE CONTRACTOR'S COST.

26. DRIVEWAY CALLOUTS LABELLED WITH A * SHALL HAVE A 3' SIDEWALK DEPTH (CROSS SLOPE OF 0.02) ADJACENT TO THE DRIVEWAY APRON. SEE CROSS SECTIONS FOR DETAILS.

LANDSCAPE SLEEVE NOTES

1. EACH END OF THE SLEEVES SHALL HAVE A 3M EMS MINI-MARKER FOR WASTEWATER 1258 INSTALLED. CONTRACTOR SHALL ALSO PROVIDE GPS LOCATIONS FOR EACH END OF THE SLEEVES.

2. MINI-MARKERS SHALL BE INSTALLED AT LEAST 4 INCHES ABOVE SLEEVE END, BUT NOT DEEPER THAN 6 FEET FROM THE SURFACE.

3. CONTRACTOR SHALL HAND FILL A MINIMUM OF 6 INCHES OF SOIL OVER THE MINI-MARKER AND TAMP DOWN THE EARTH PRIOR TO BACKFILLING THE HOLE.

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

PROJECT NOTES
HOMESTEAD ROAD

SHEET NO.
24

DRAINAGE NOTES

1. DRAINAGE MAP CONTOUR ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

2. THE CONTRACTOR SHALL EXERCISE CARE WHEN REPLACING PIPES THAT ATTACH TO EXISTING INLETS. ANY REPAIRS TO THE EXISTING STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE.

3. TEMPORARY SHEETING, TRENCH BOXES, AND DEWATERING MAY BE REQUIRED TO CONSTRUCT SOME OF THE STORM DRAIN SYSTEM. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE COST OF THE STORM DRAINS.

4. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED. CONTRACTOR WILL PROVIDE ALL NECESSARY SHEETING TO PROTECT THE EMBANKMENT WHEN INSTALLING DRAINAGE STRUCTURES. DRAINAGE IS TO BE MAINTAINED DURING CONSTRUCTION. REMOVAL OF THESE DRAINAGE STRUCTURES WILL BE INCLUDED IN THE BID FOR CLEARING AND GRUBBING.

5. ALL RCP IS TO BE CLASS II.

6. ALL PIPE LENGTHS ARE MEASURED FROM THE INSIDE WALL TO INSIDE WALL.

7. ALL FLOWLINES ARE SHOWN ON THE DRAINAGE STRUCTURE SHEETS.

8. THE CONTRACTOR IS TO FIELD VERIFY AND / OR DETERMINE THE EXACT LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL EXISTING UTILITIES THAT ARE SHOWN TO BE ACCOMODATED BY A PROPOSED CONFLICT STRUCTURE. THIS INFORMATION SHALL BE USED TO PROPERLY CAST AND PLACE THE CONFLICT STRUCTURE.

9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A DEWATERING SYSTEM THAT PROVIDES PRETREATMENT OF EFFLUENT PRIOR TO DISCHARGE INTO ADJACENT SURFACE WATERS. THE CONTRACTOR'S DEWATERING METHOD MUST MEET ALL FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS CONCERNING THIS PRACTICE, INCLUDING THE USE PERMITTED OUTFALL CONTROL STRUCTURES. THE CONTRACTOR SHALL ACQUIRE A SHORT TERM DEWATERING PERMIT FOR THE APPROPRIATE WATER MANAGEMENT DISTRICT.

PAY ITEM NOTES

1. ITEM NO. 285-709 INCLUDES XX.XX CY EXTRA BASE. SEE DRAINAGE CROSS SECTIONS FOR LOCATIONS

UTILITY NOTES

1. FOR UTILITY ADJUSTMENT SYMBOLS, SEE FDOT INDEX 002.

2. EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.

3. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION OR DISTRIBUTION LINES OR UNDERGROUND UTILITIES. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.

4. UTILITIES SHOWN HEREIN HAVE BEEN LOCATED BASED ON ABOVE GROUND EXISTENCE OF STRUCTURES. ACTUAL LOCATION OF UNDERGROUND UTILITIES IS UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN THROUGH DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANY. SUCH CONTACT SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. ANY UTILITIES OBSTRUCTIVE TO THE ROAD CONTRACTORS OPERATION ARE TO BE RELOCATED BY THE APPROPRIATE UTILITY COMPANY IN ACCORDANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE PRIOR TO OR IN CONJUNCTION WITH THE ROADWAY PROJECT.

5. LEE COUNTY DOT SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGES OR DELAYS CAUSED BY THE LOCATION OR DISPOSITION OF ANY UTILITIES.

6. LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE AT TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT GUARANTEE TO BE ABSOLUTELY CORRECT. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS AND ELEVATIONS APPLY ONLY AT POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

7. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK AND SHALL COMPLY WITH ALL STATE, COUNTY, AND LOCAL ORDINANCES AND OBTAIN ANY NECESSARY WORK PERMITS THAT MAY BE REQUIRED PRIOR TO CONSTRUCTION.

8. UTILITIES NOT UNDER THIS CONTRACT TO BE ADJUSTED BY UTILITY OWNERS.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN THE CONTRACTOR AND ALL UTILITY AGENCIES. THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE (REFERENCE CONTRACT DOCUMENTS).

10. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES AND REPORT ANY DISCREPANCY TO THE PROJECT ENGINEER.

UTILITY AGENCY/OWNER	CONTACT	PHONE
COMCAST CABLEVISION	MARK COOK	239-432-1805
FLORIDA GOVERNMENTAL UTILITY AUTHORITY (FGUA)	MICHAEL CURRIER	239-368-1615
TECO PEOPLES GAS	MARILYN ALOI	239-690-5517
BALGAS	DAN GARDNER	239-278-3111
LEE COUNTY SIGNAL DEPARTMENT	JAMES FENCIL	239-707-4870
LEE COUNTY ELECTRIC CO-OP	CLIFFORD BENDER	239-656-2171
CENTURYLINK	CRAIG CLARK	252-622-9415
FPL FIBERNET	NOEL REESE	239-693-4260
LEHICH ACRES MUNICIPAL SERVICE DISTRICT	MICHAEL COOK	239-368-0044

PAY ITEM NOTES:

285-709 INCLUDES 47.3 CY. SEE DRAINAGE STRUCTURES HOMESTEAD ROAD, DRAINAGE STRUCTURES SUNRISE BLVD. FOR LOCATIONS

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REVISIONS					
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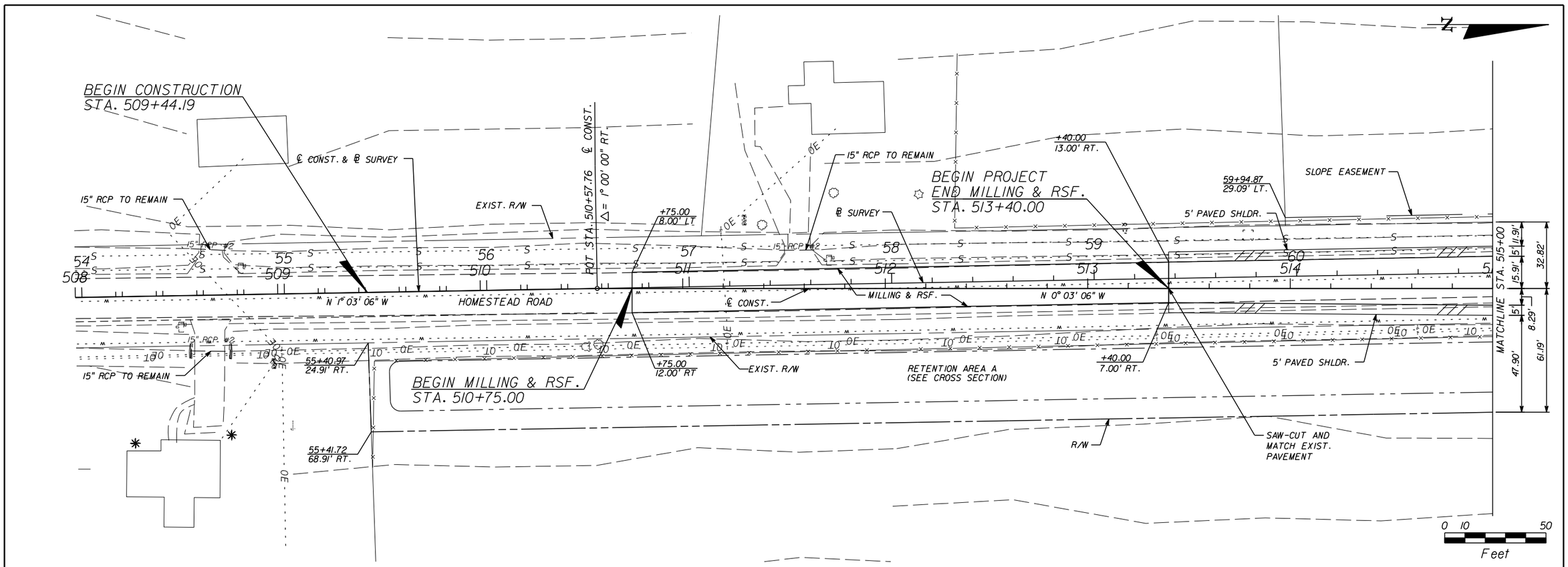
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

GENERAL NOTES
HOMESTEAD ROAD

SHEET NO. 25



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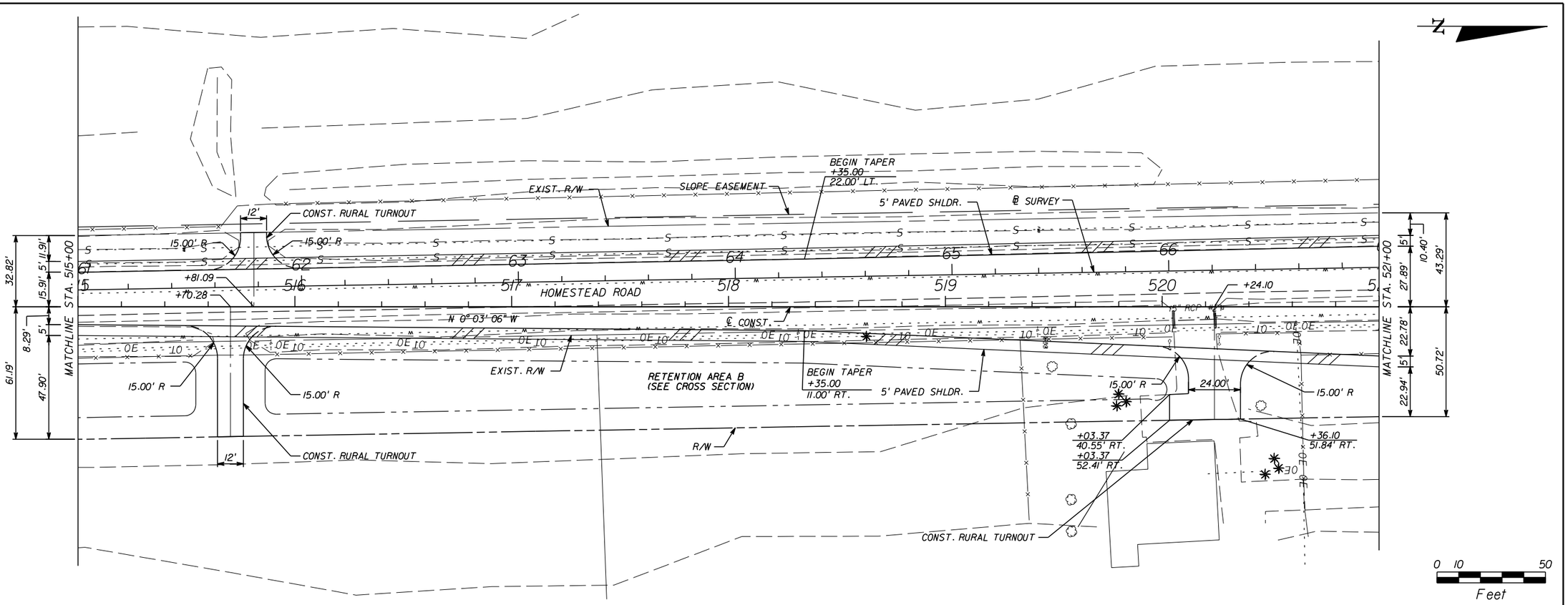
DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
HOMESTEAD ROAD

STA. 505+00 TO STA. 515+00

SHEET NO. 26

EGILBERT 9/19/2016 PW:\202116\0000000\0000000\93055\13.00_CAD\Homestead\roadway\plprrd01.dgn



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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE HOMESTEAD ROAD

STA. 515+00 TO STA. 521+00

SHEET NO. 27

EGILBERT 9/19/2016 PW:\202116\0000200003\93055\13.00_CAD\Homestead\roadway\plprrd02.dgn

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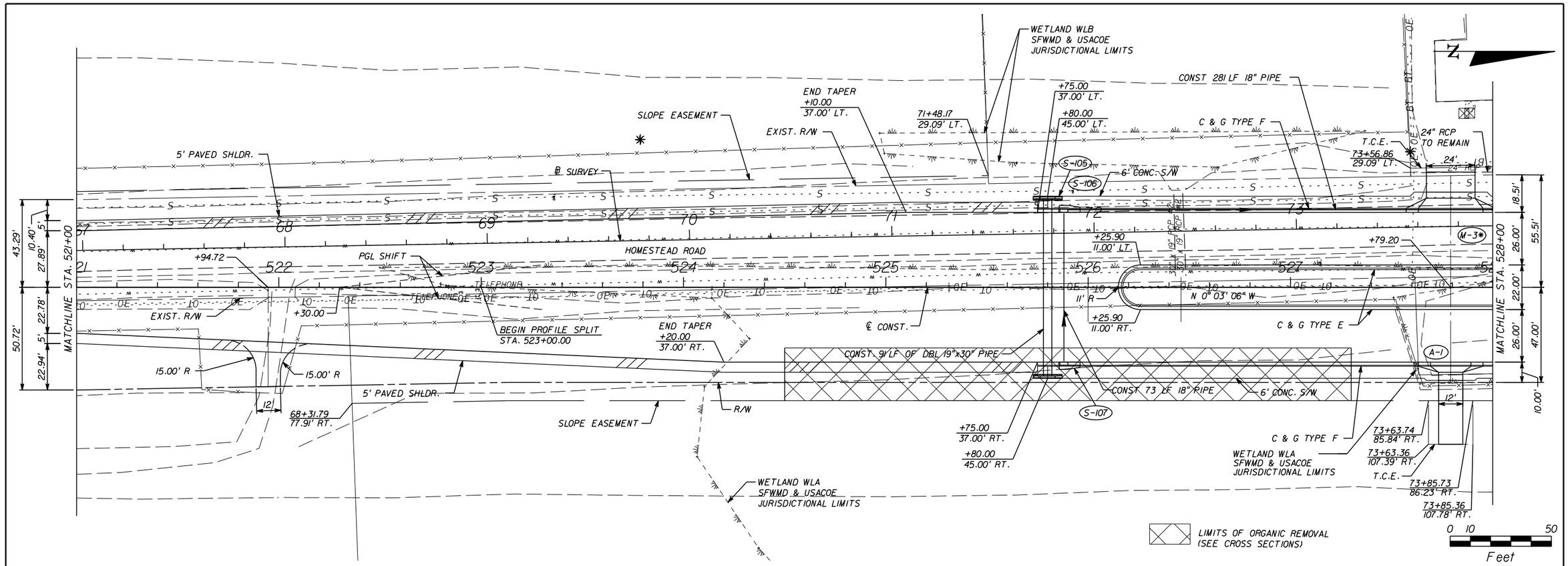

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Jason L. Starr, P.E.
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HDR Engineering, Inc.
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Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

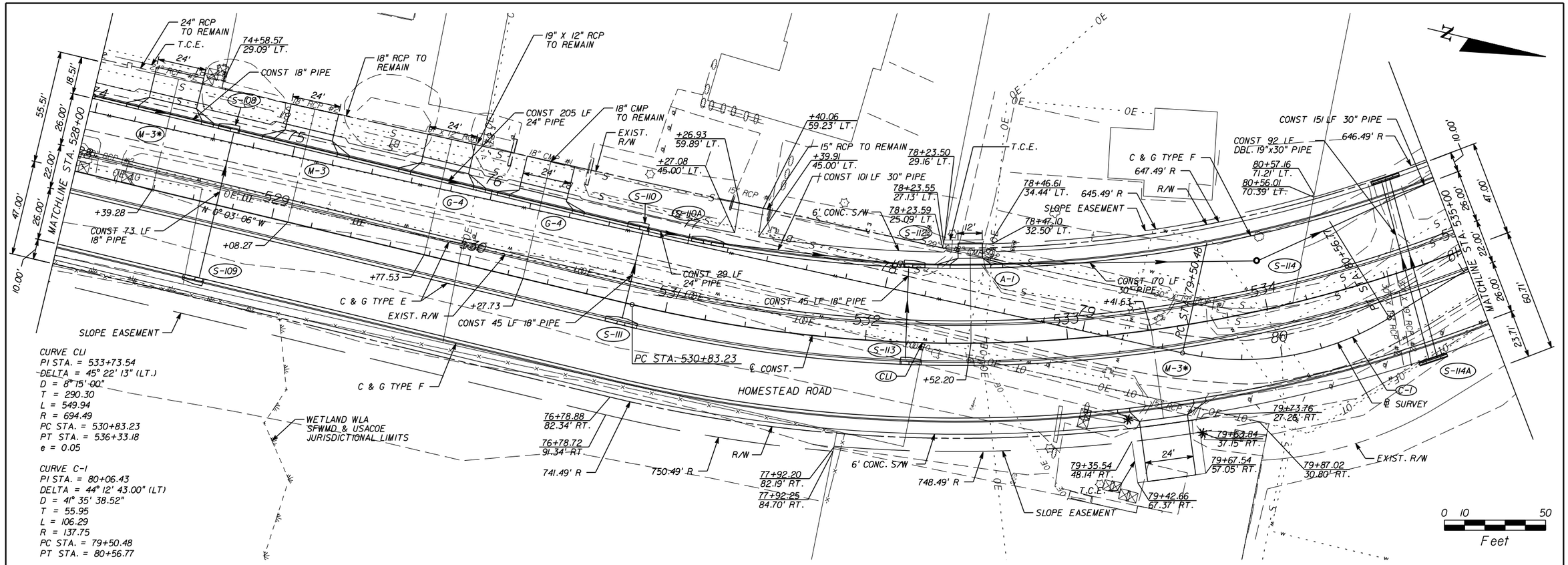
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

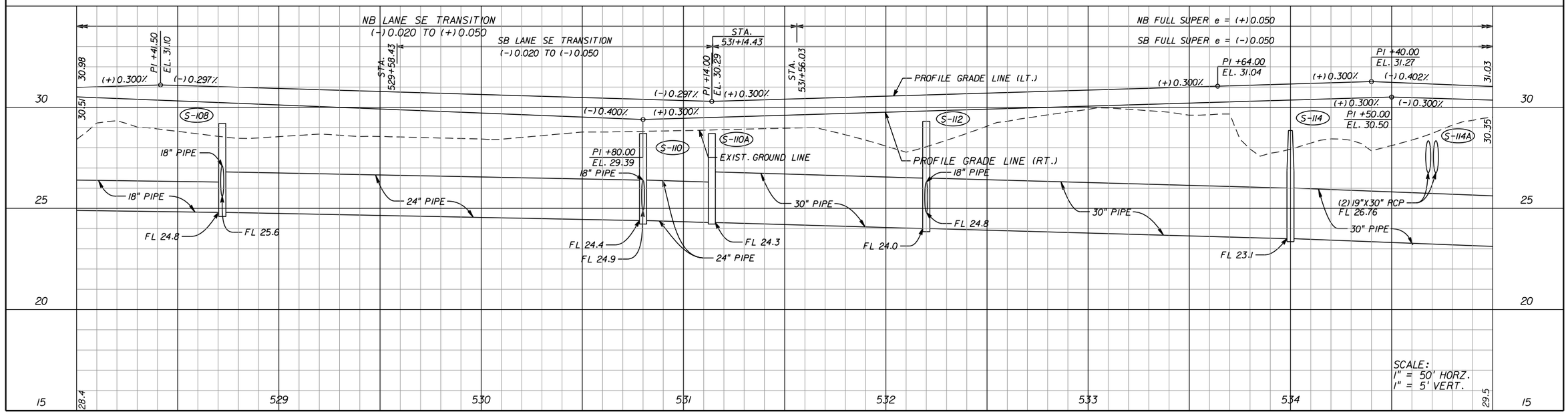
EGILBERT 9/19/2016 PW:\202116\0000020000\93055\13.00_CAD\Homestead\roadway\plprrd03.dgn

PLAN & PROFILE
HOMESTEAD ROAD

STA. 521+00 TO STA. 528+00

SHEET NO. 28





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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
HOMESTEAD ROAD

STA. 528+00 TO STA. 535+00

SHEET NO. 29

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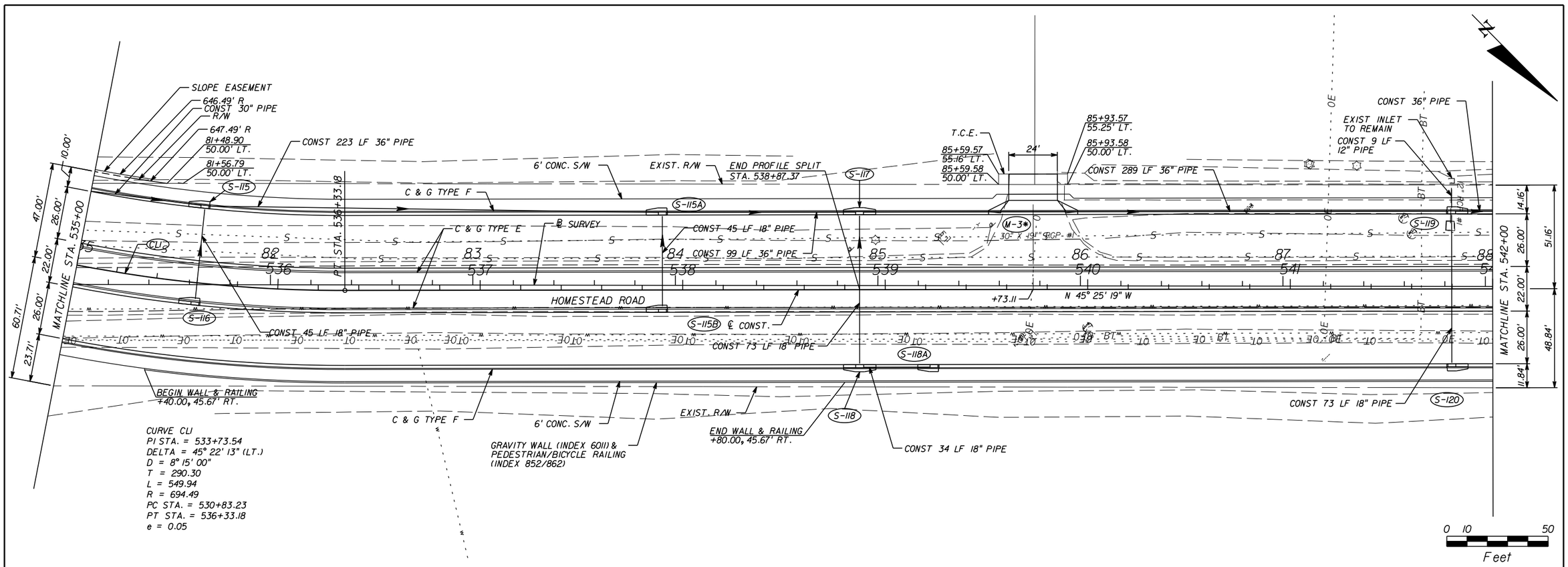

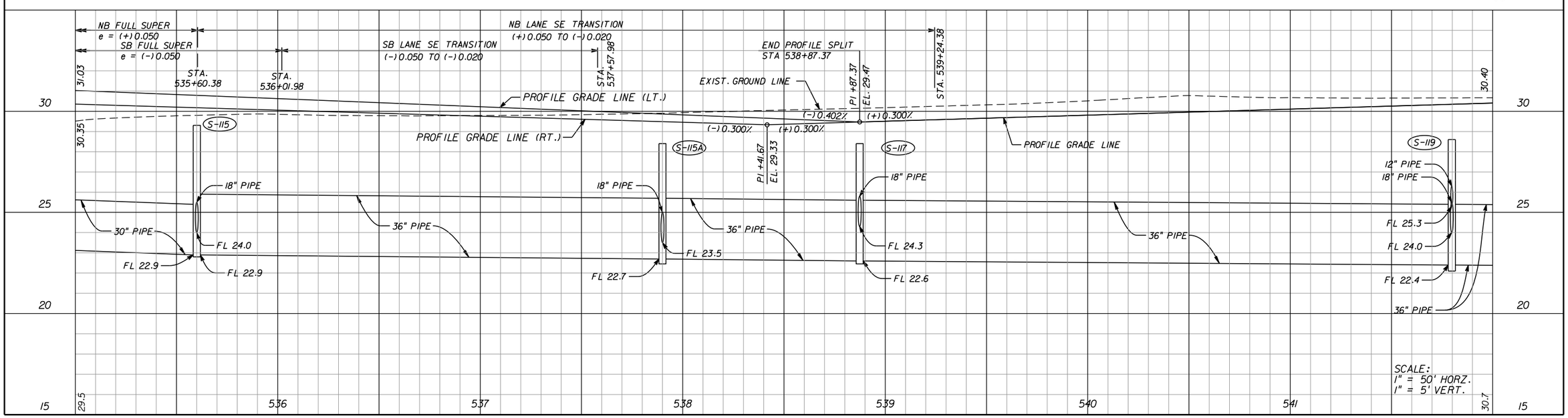

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PLAN & PROFILE
HOMESTEAD ROAD

STA. 535+00 TO STA. 542+00

SHEET NO. 30

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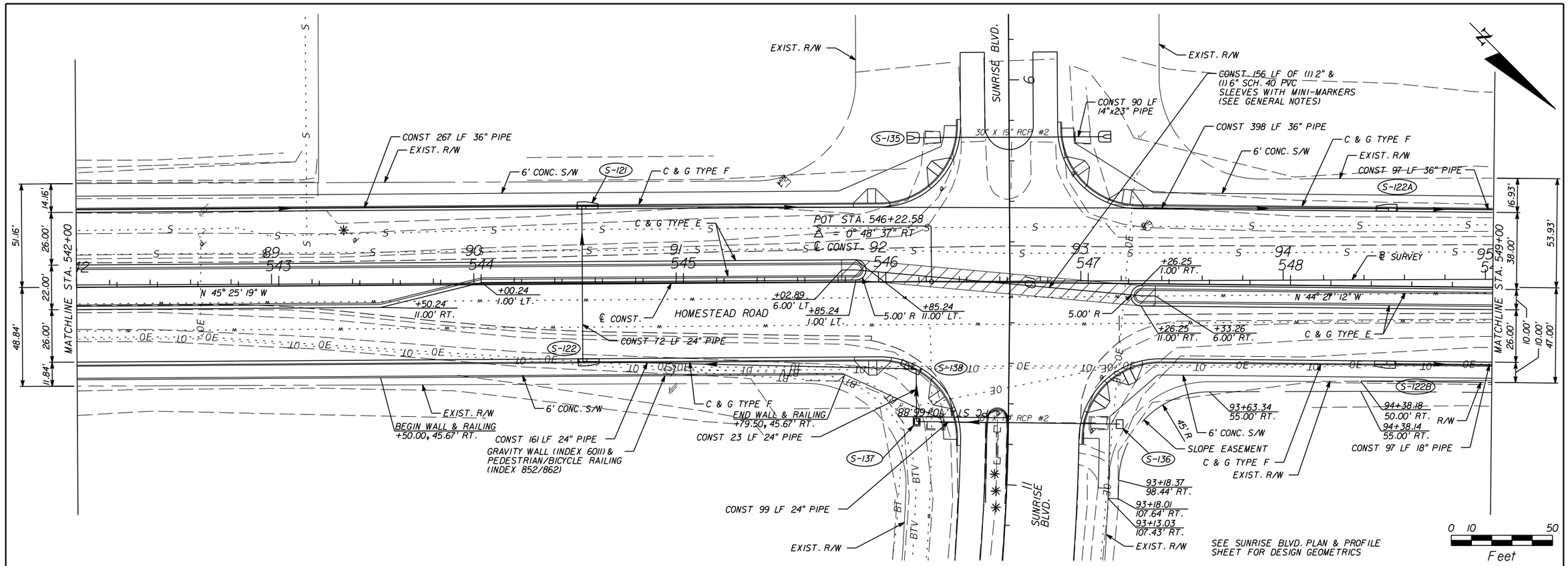

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PLAN & PROFILE HOMESTEAD ROAD

STA. 542+00 TO STA. 549+00

SHEET NO. 31

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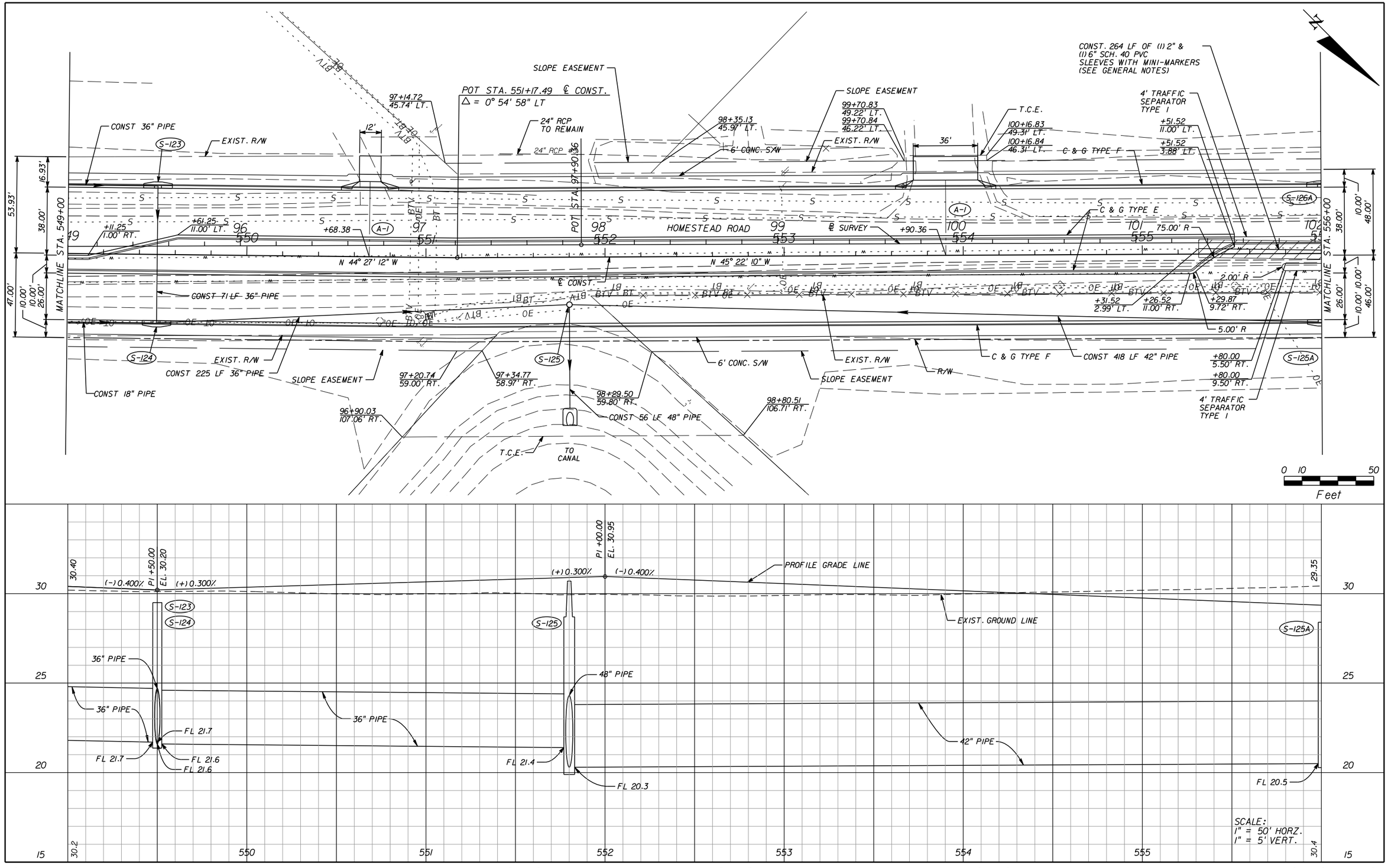

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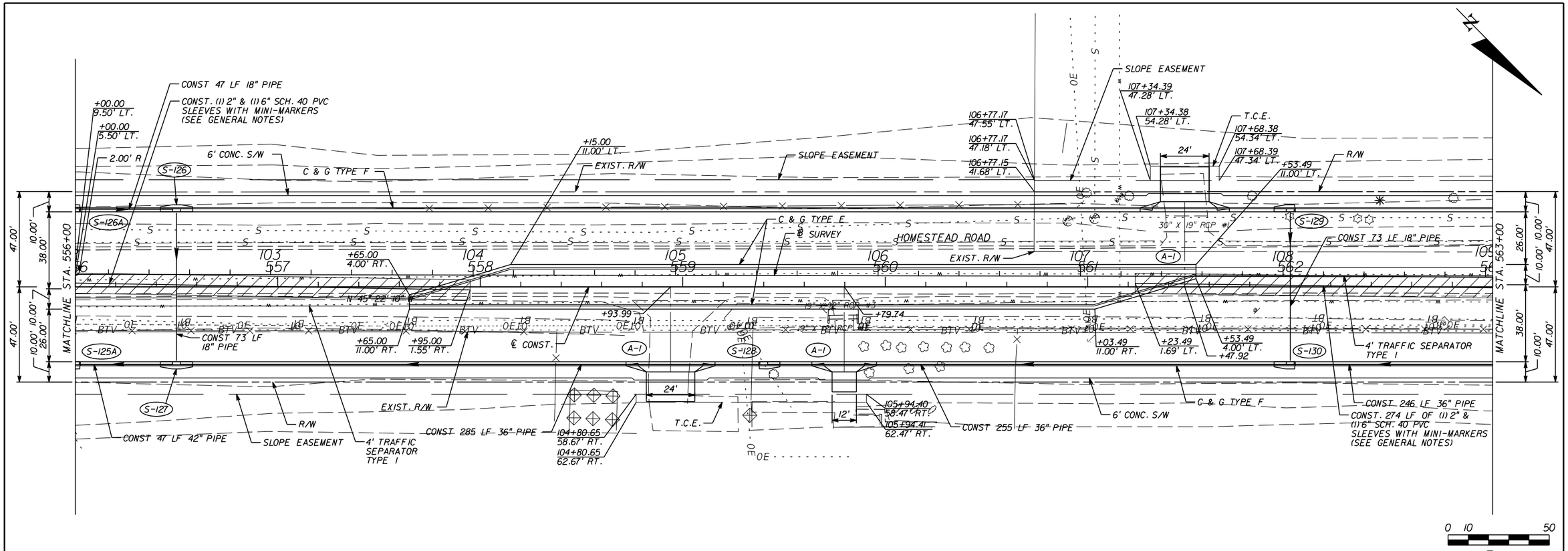
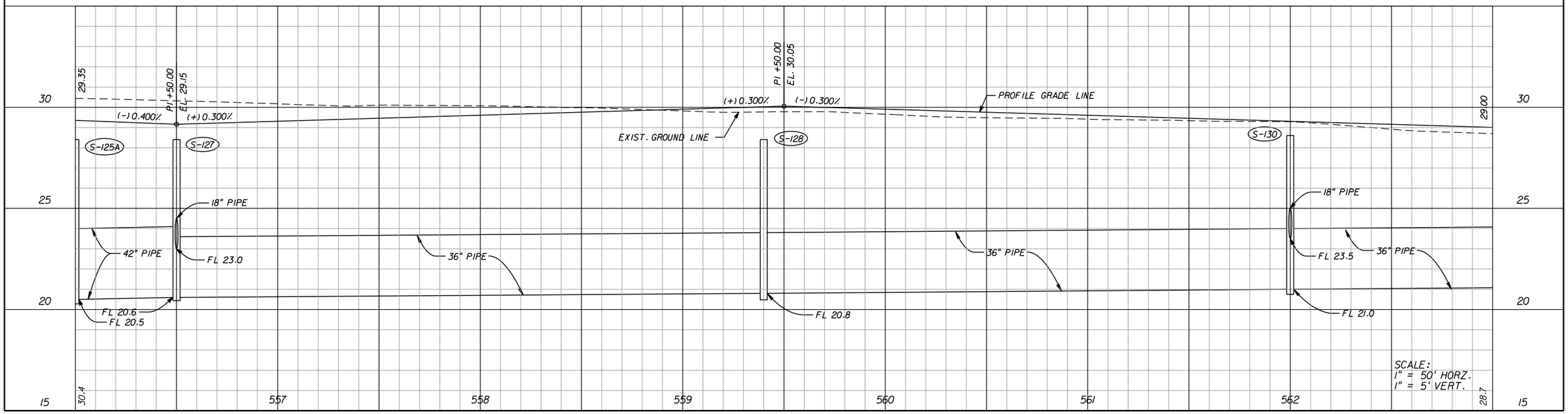
PLAN & PROFILE
HOMESTEAD ROAD

STA. 549+00 TO STA. 556+00

SHEET NO. 32

EGILBERT 9/19/2016 PW:\202116\0000000000053055\13.00_CAD\Homestead\roadway\plprrd07.dgn





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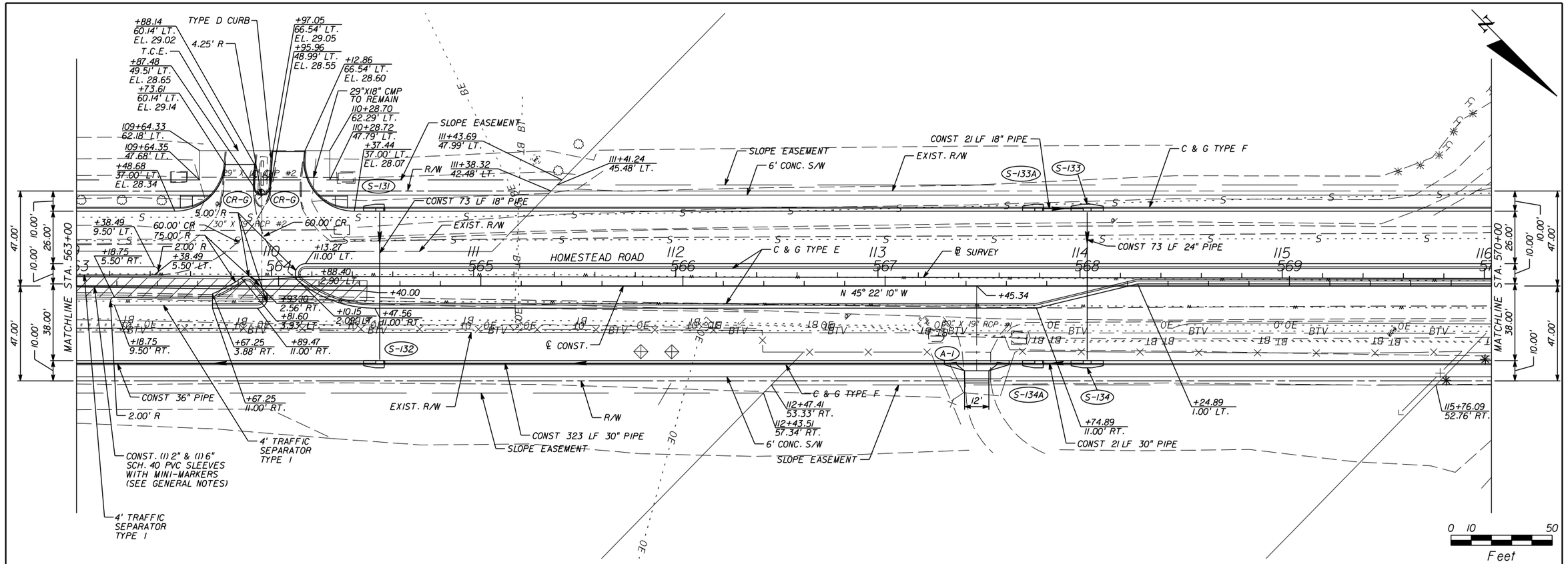
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

PLAN & PROFILE HOMESTEAD ROAD

STA. 556+00 TO STA. 563+00

SHEET NO. 33

EGILBERT 9/19/2016 PW:\202116\0000202116\3055\13.00_CAD\Homestead\roadway\plprrd08.dgn



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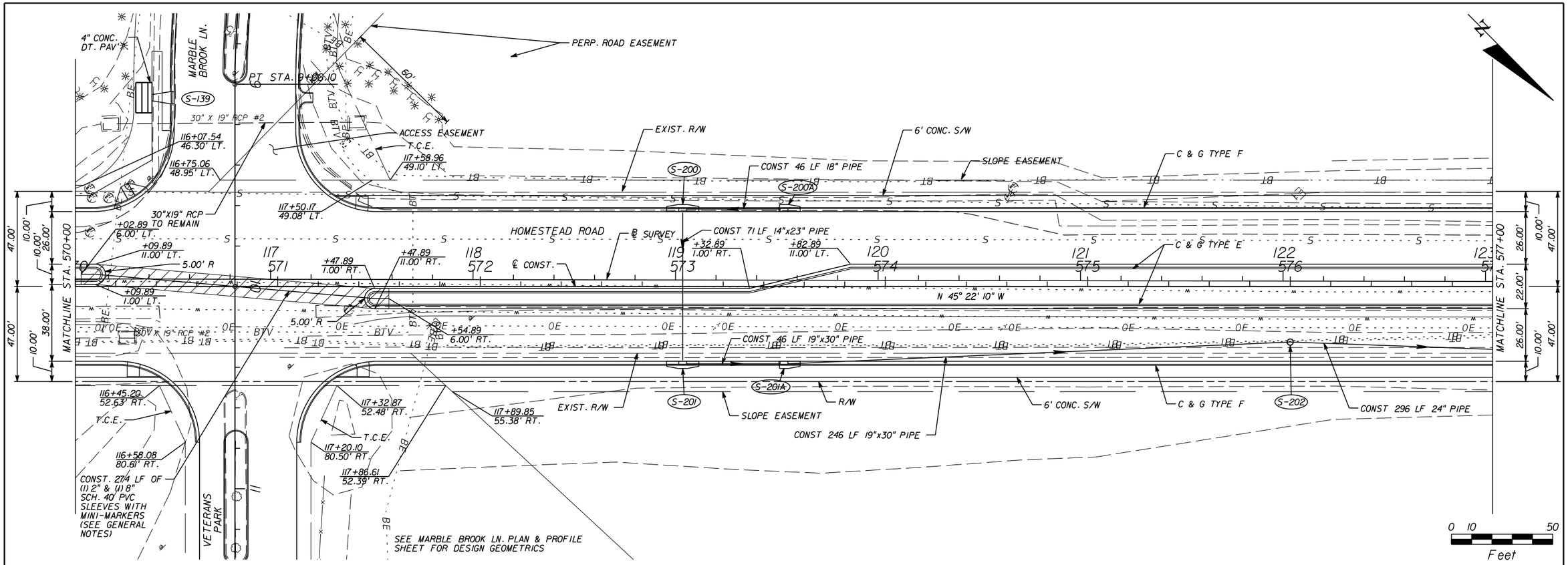
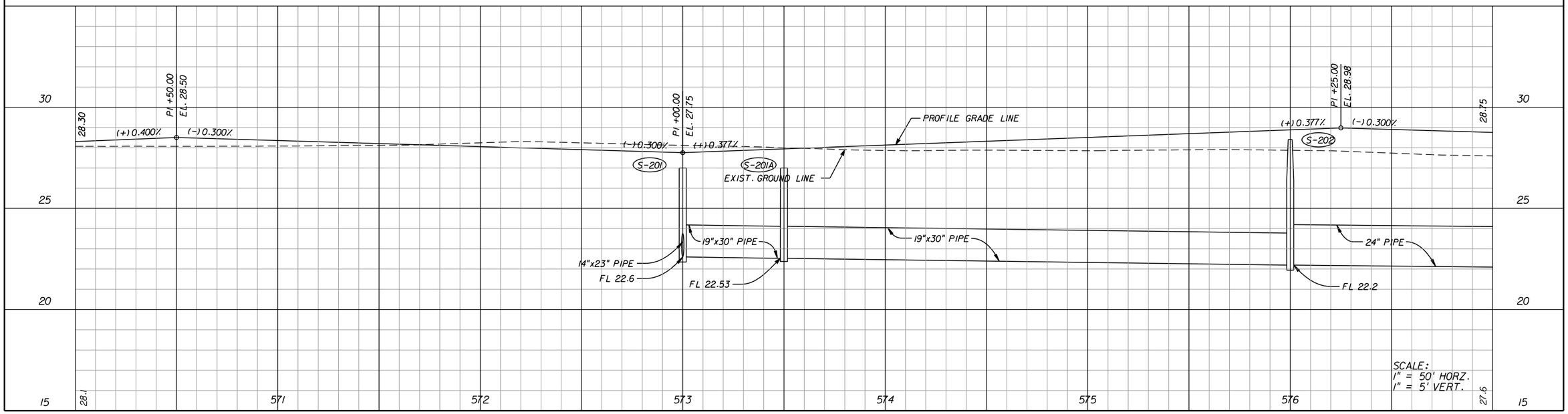
EGILBERT 9/19/2016 PW:\202116\0000030055\13.00_CAD\Homestead\roadway\plprrd09.dgn

PLAN & PROFILE HOMESTEAD ROAD

STA. 563+00 TO STA. 570+00

SHEET NO. 34





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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE HOMESTEAD ROAD

STA. 570+00 TO STA. 577+00

SHEET NO. 35

EGILBERT 9/19/2016 PW:\202116\0000030004\93055\13.00_CAD\Homestead\roadway\plprrd10.dgn

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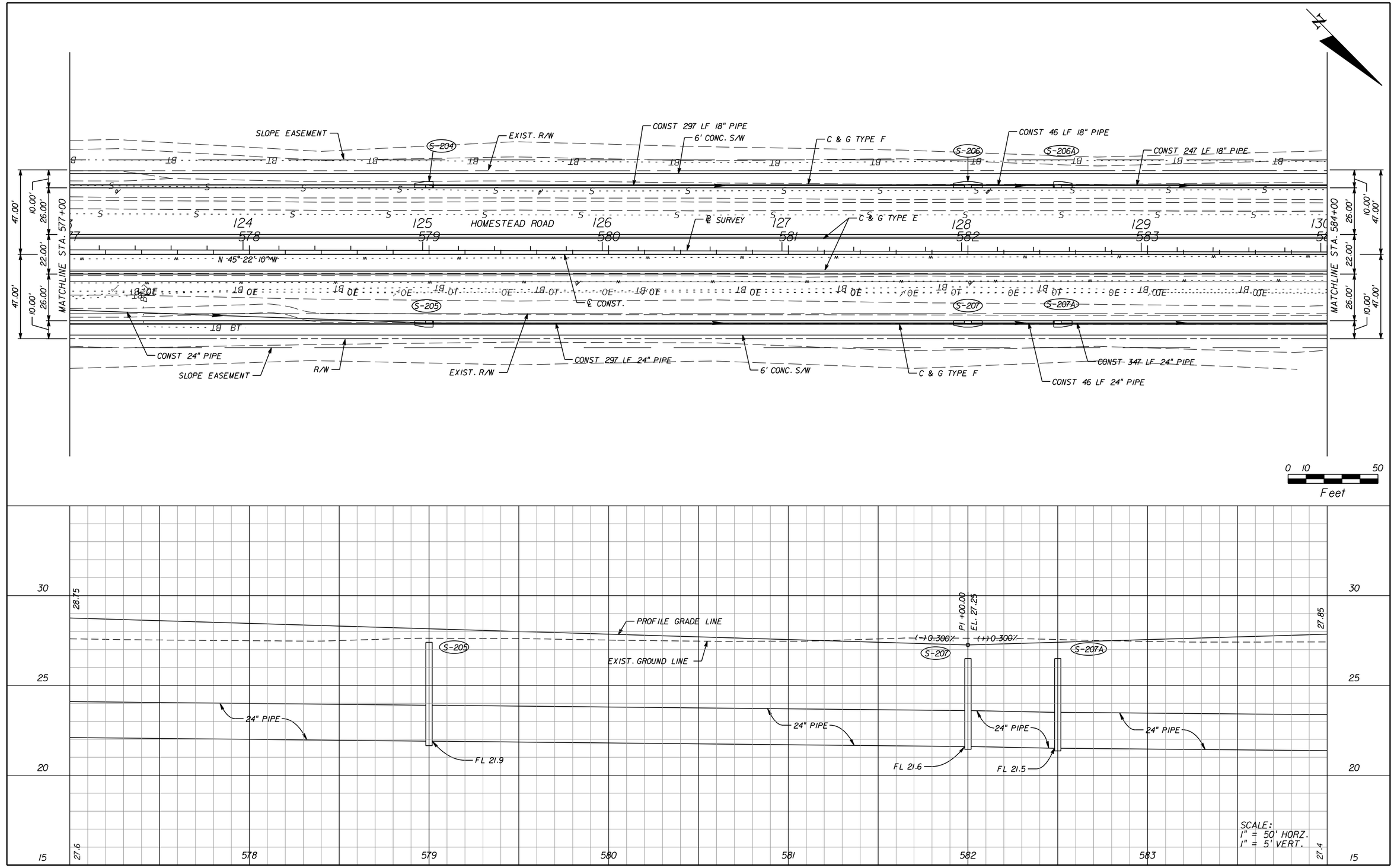

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DEPARTMENT
of
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FORT MYERS, FLORIDA 33901

PLAN & PROFILE HOMESTEAD ROAD

STA. 577+00 TO STA. 584+00

SHEET NO. 36

EGILBERT 9/19/2016 PW:\202116\0000006093055\13.00_CAD\Homestead\roadway\plprrd11.dgn

POT STA. 587+96.19 ℄ CONST.
△ = 1° 00' 00" RT

EXIST. R/W

136+03.47
76.24' LT.

CANAL
5'-5-3
(BORREFISH)

T.C.E.

24'

CONST 18" PIPE

131+17.64
51.49' LT.

S-208

C & G TYPE F

CONST 359 LF 24" PIPE

EXIST. R/W

6' CONC. S/W

SLOPE EASEMENT

S-210

S-210A

CONST 34 LF 18" PIPE
BEGIN TAPER
+66.47
37.00 LT.

136+29.16
52.39' LT.

36" CMP #2

A-1

CONST 75 LF 24" PIPE

11.00' R

PGL SHIFT

+59.89
11.00' LT.

11' R

+73.44
1.00 RT.

+66.47
1.00 RT

+16.47
11.00' LT.

+66.47
11.00' LT.

+66.47
+84.19

5' R

+59.89
11.00' RT.

+73.44
11.00' RT.

+66.47
11.00' RT.

S-208A

S-211

S-211A

CONST 24" PIPE

CONST 257 LF 30" PIPE

C & G TYPE E

C & G TYPE F

CONST 34 LF 30" PIPE

BEGIN TAPER
+66.47
37.00' RT.

SLOPE EASEMENT

R/W

130+60.84
53.16' RT.

C & G TYPE F

6' CONC. S/W

SLOPE EASEMENT

130+60.89
83.66' RT.

T.C.E.

131+85.67
52.95' RT.

131+85.75
83.45' RT.

R/W

133+99.42
47.57' RT.

133+99.38
52.57' RT.

6' CONC. S/W

CONST 336 LF 30" PIPE

47.00'
10.00'
26.00'
22.00'
47.00'
10.00'
26.00'

MATCHLINE STA. 584+00

MATCHLINE STA. 591+00

18.29'
52.31'
68.05'
47.00'
12.97'

131
585
132
586
133
587
HOMESTEAD ROAD
134
588
135
589
136
590
137
591

℄ SURVEY
℄ CONST.

N 45° 22' 10" W

N 44° 22' 10" W

VETERANS PARK ACADEMY
FOR THE ARTS AND
RECREATION CENTER

SEE VETERAN PARK ACADEMY PLAN AND PROFILE
SHEET FOR DESIGN GEOMETRICS & CURB RAMP DETAIL

0 10 50
Feet

150' V.C.

+25.00 EL. 27.90
27.86
27.83
L.P. +62.26 EL. 27.83
27.85
27.91
28.01
28.15
28.34
+75.00 EL. 28.51

END PGL SHIFT
STA. 590+66.47

29.88

30

PROFILE GRADE LINE

27.85

(+) 0.300%

PI +50.00
EL. 28.60

(-) 0.400%

EXIST. GROUND LINE

(-) 0.400%

(+) 1.210%

S-208A

S-211

S-211A

PI +00.00
EL. 27.80

+42.50 EL. 29.33

29.53

29.72

29.88

BEGIN PGL SHIFT
STA. 589+66.47

215' V.C.

25

24" PIPE

FL 21.2

30" PIPE

24" PIPE

30" PIPE

20

FL 21.0

FL 20.97

30" PIPE

SCALE:
1" = 50' HORZ.
1" = 5' VERT.

15

27.4

585

586

587

588

589

590

29.7

REVISIONS					
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DEPARTMENT
of
TRANSPORTATION

PLAN & PROFILE
HOMESTEAD ROAD

STA. 584+00 TO STA. 591+00

SHEET NO.
37

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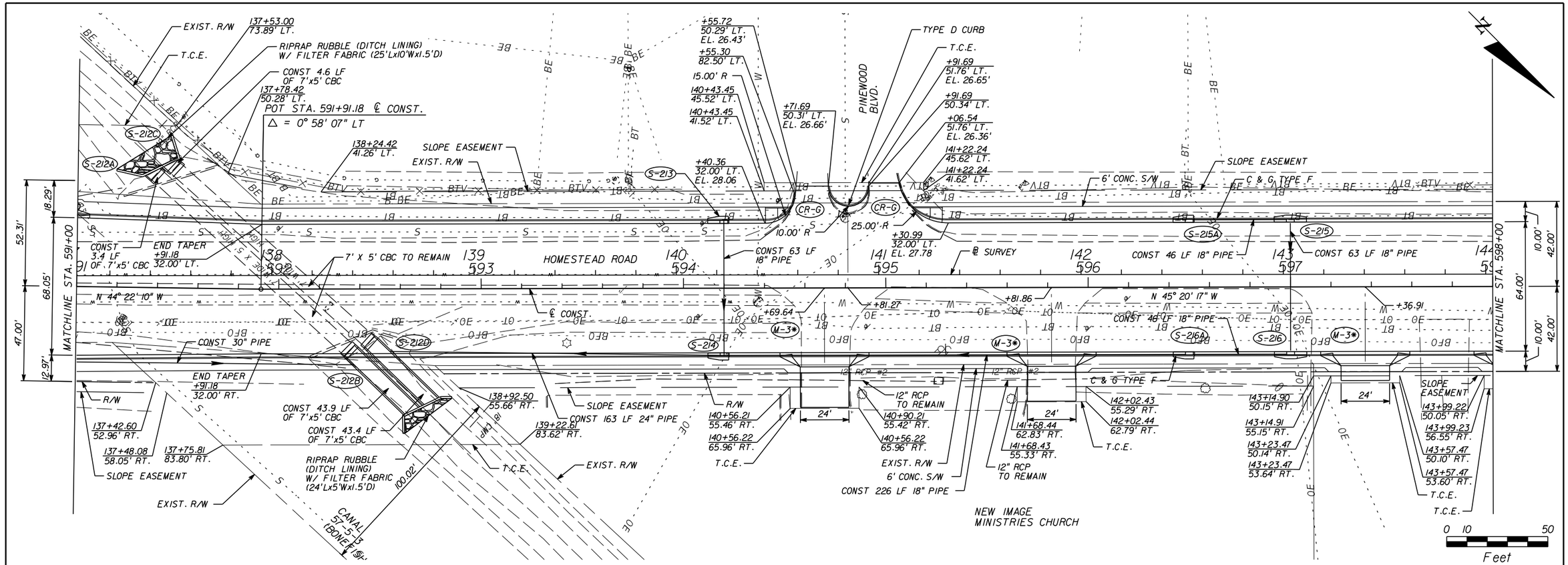

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PLAN & PROFILE
HOMESTEAD ROAD

STA. 591+00 TO STA. 598+00

SHEET NO. 38

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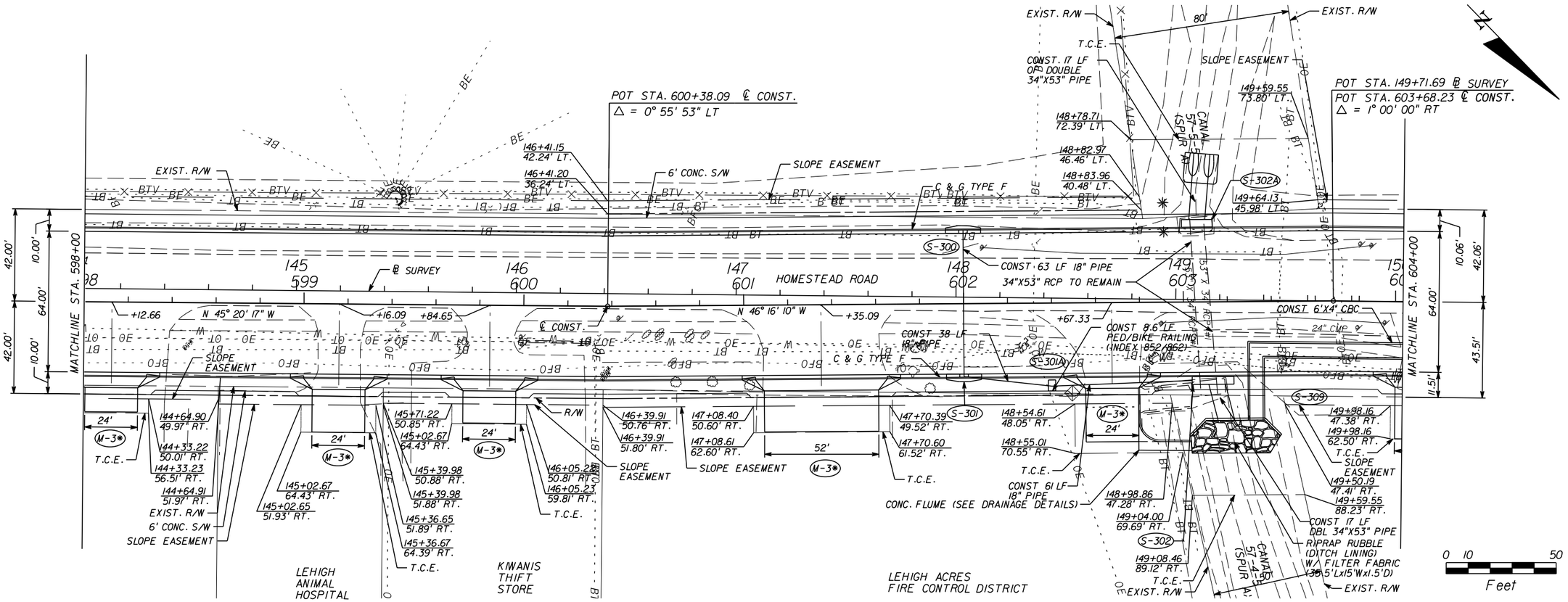

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PLAN & PROFILE
HOMESTEAD ROAD

STA. 598+00 TO STA. 604+00

SHEET NO. 39

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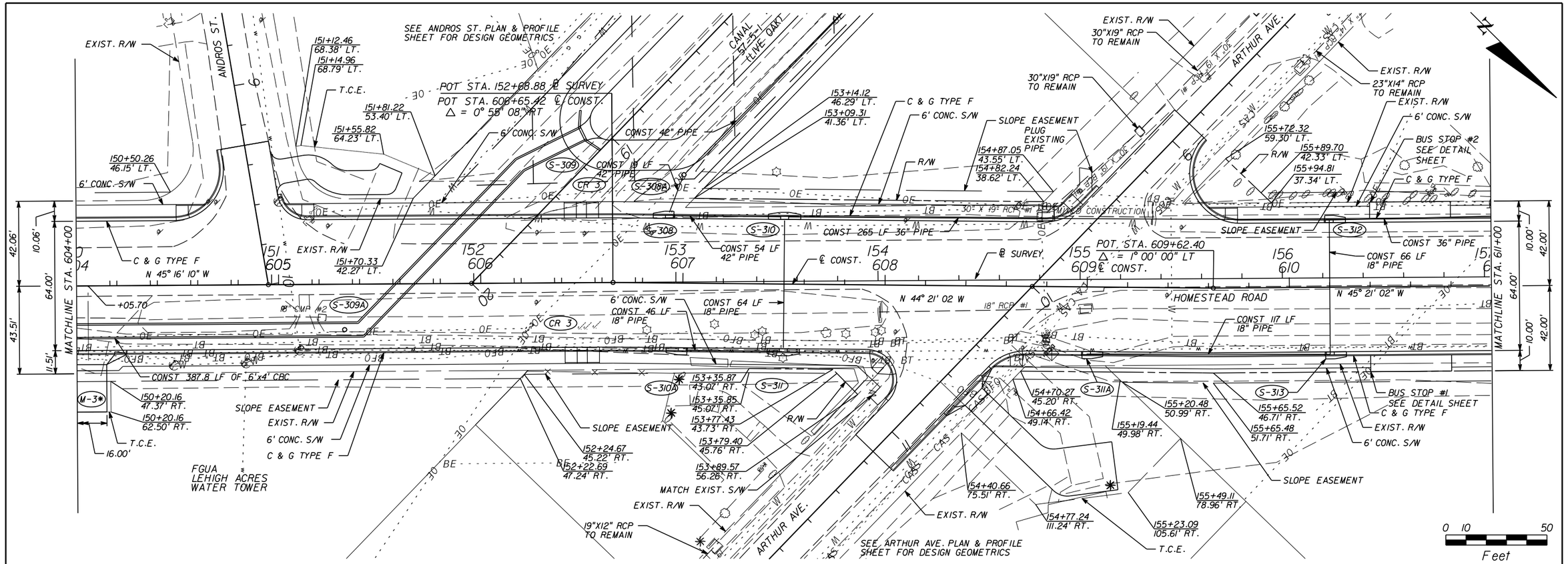

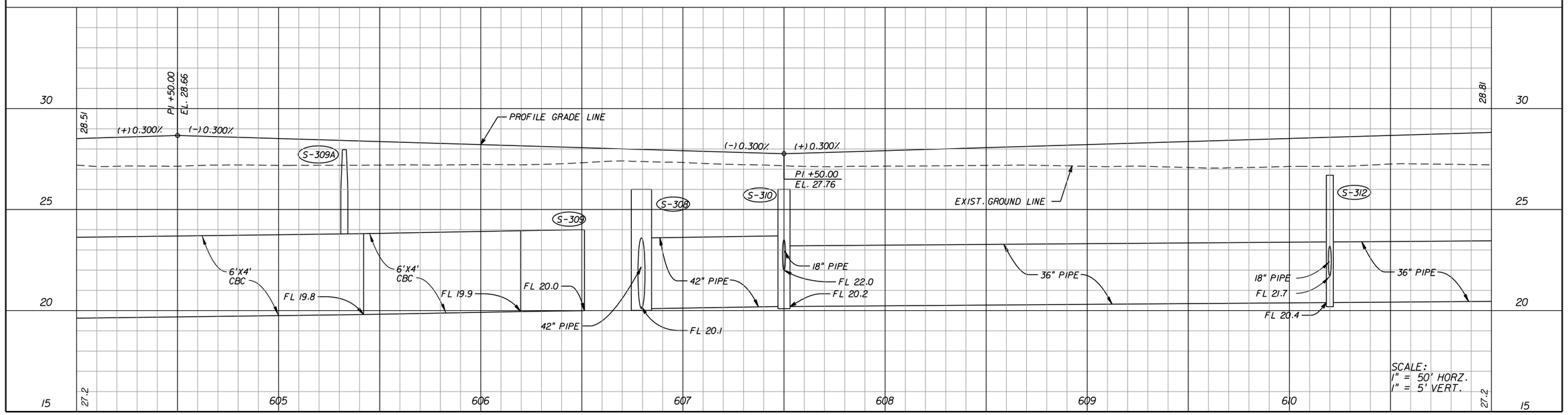

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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE HOMESTEAD ROAD

STA. 604+00 TO STA. 611+00

SHEET NO. 40

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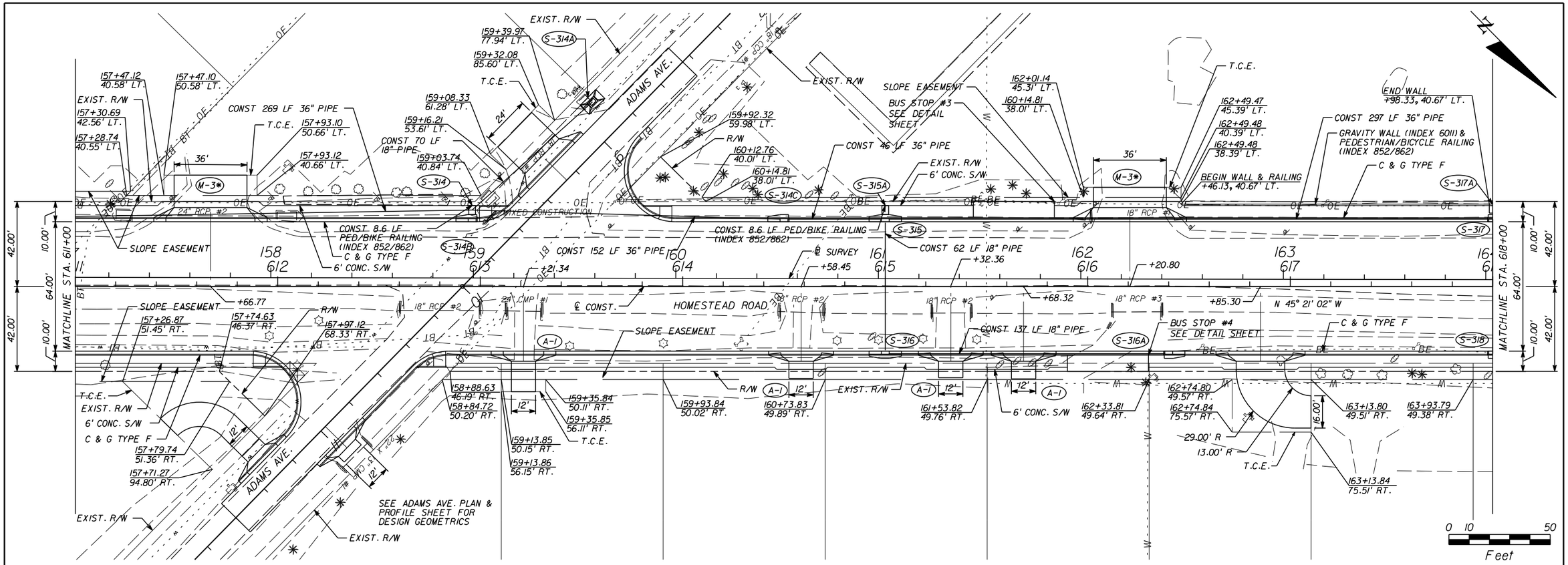

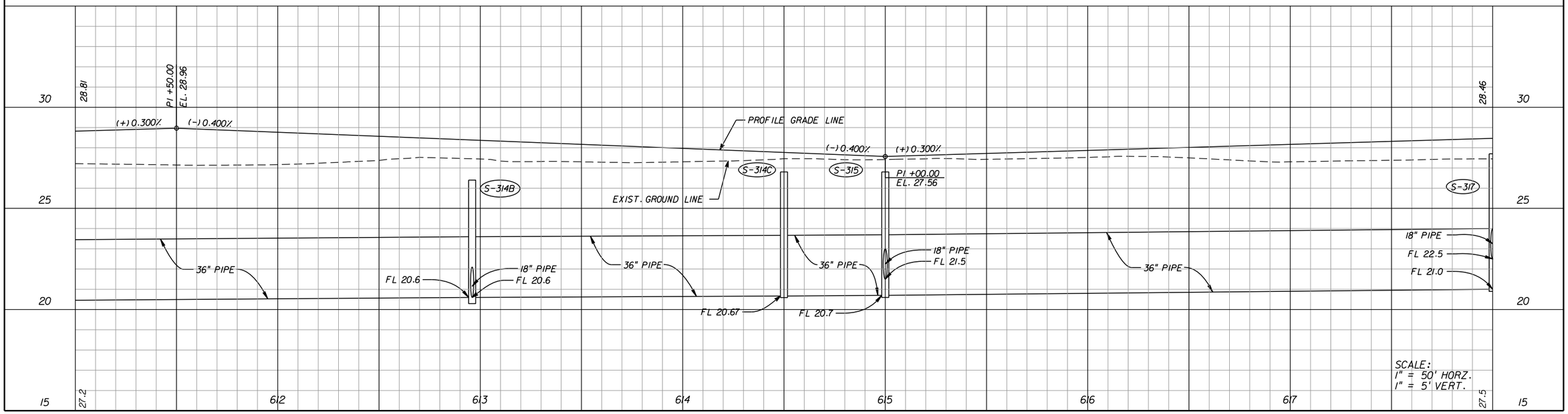

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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE HOMESTEAD ROAD

STA. 611+00 TO STA. 618+00

SHEET NO. 41

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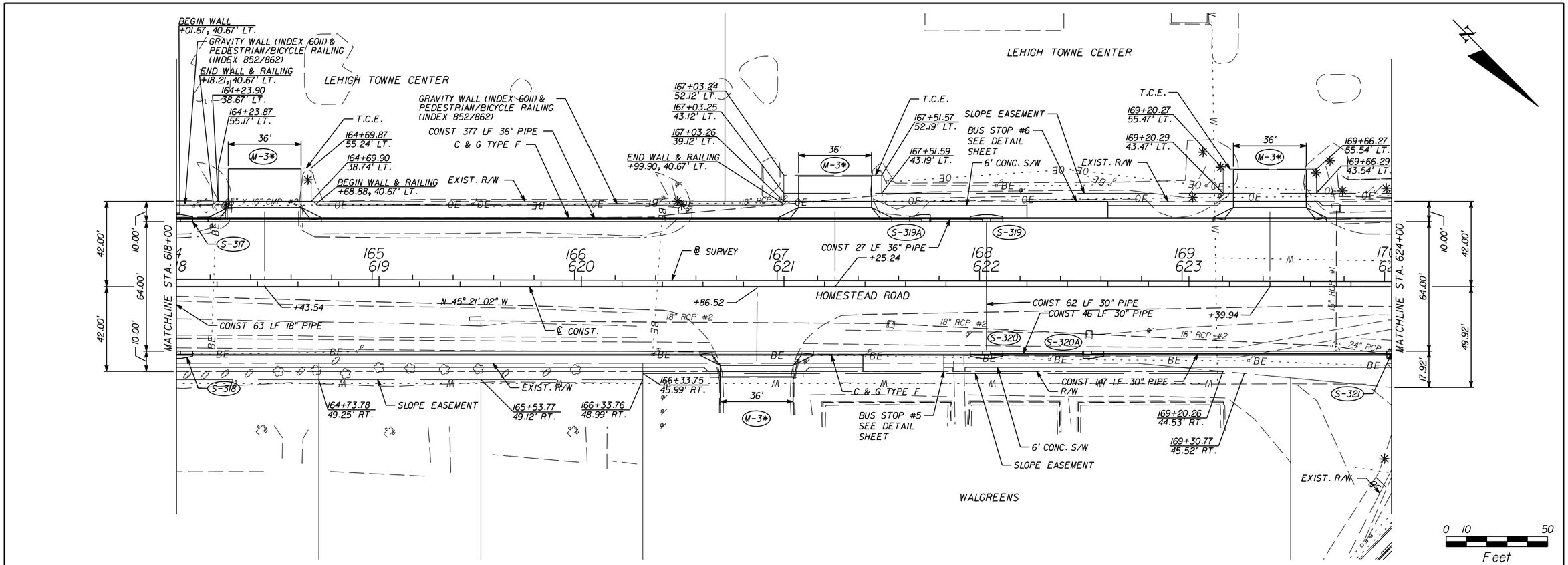

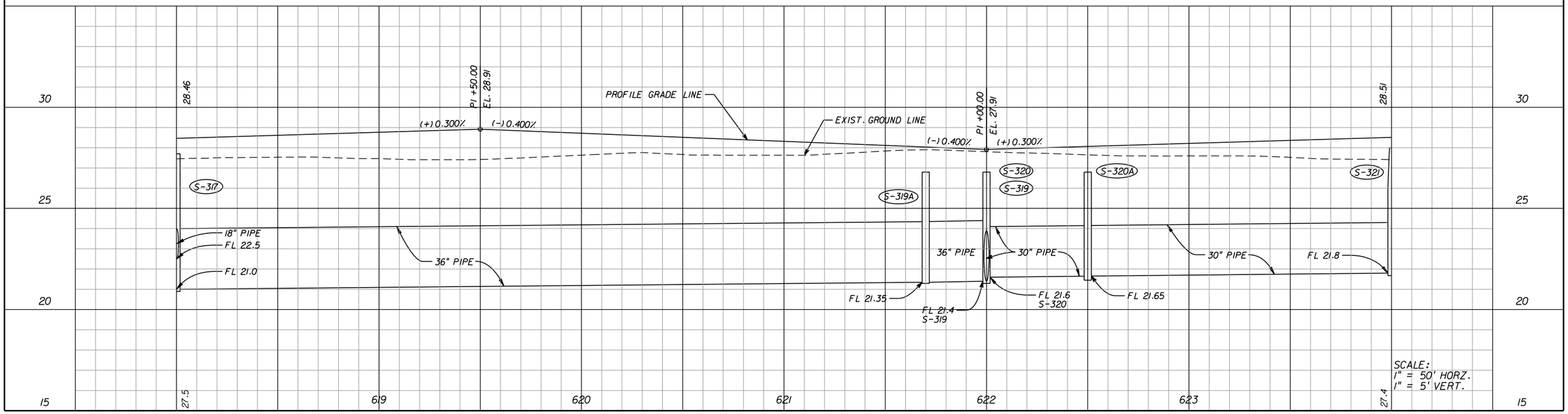

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Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
HOMESTEAD ROAD

STA. 618+00 TO STA. 624+00

SHEET NO. 42

EGILBERT 9/19/2016 PW:\202116\0000000\0000093055\13.00_CAD\Homestead\roadway\plprrd17.dgn

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EXIST. R/W
I70+35.84
43.65' LT.
SLOPE EASEMENT
CONST 113 LF 18" PIPE
CONST 8.6 LF PED/BIKE RAILING (INDEX 852/862)
S-406
S-405
CONST 48 LF 18" PIPE
SEE ALABAMA RD. PLAN & PROFILE SHEET FOR DESIGN GEOMETRICS
TRAFFIC MONITORING SITE PER FDOT INDEX 17900 SOLAR POWERED WITH CONTROLLER AT STA. 627+80.00, 37.00' RT. LOOPS TO BE CENTERED ON STA. 627+70.00 & 627+86.00
EXIST. R/W
CONST 134 LF 18" PIPE
BUS STOP #7 SEE DETAIL SHEET
SEE WESTMINSTER ST. PLAN & PROFILE SHEET FOR DESIGN GEOMETRICS
+92.93 5.98' LT
+21.88 11.53' LT
+73.72 8.81' LT
+09.64 6.93' LT
+49.63 5.50' LT
+93.13 4.00' LT
+10.32 4.00' LT
+55.25 3.46' LT
+96.30 6.00' RT
+44.65 3.00' LT
TRAFFIC SEPARATOR DETAIL
I72+38.07
44.97' LT.
S-407
SLOPE EASEMENT
CONST 156 LF 24" PIPE
EXIST. R/W
6' CONC. S/W
MIXED CONSTRUCTION
I74+33.90
45.29' LT.
I74+29.18
50.33' LT.
S-410
S-412
CONST 48 LF 30" PIPE
48" CMP TO REMAIN
CONST 17 LF 30" PIPE AND CONNECT TO EXIST INLET
CONST 188 LF 18" PIPE
SLOPE EASEMENT
I75+75.29
50.27' LT.
CONST 8.6 LF PED/BIKE RAILING (INDEX 852/862)
S-414
CONST 4 LF 12"x18" PIPE
END TAPER +50.00
27.00' LT.
FT STA. 9+13.29
WESTMINSTER ST.
SEE ALABAMA RD. - LEELAND HEIGHTS BLVD. INTERSECTION DETAIL SHEET
C & G TYPE F
CONST 59 LF 30" PIPE
POT STA. 629+10.32
Δ = 1°00'00" LT
℄ CONST.
BEGIN TAPER +00.00, 34.60' LT.
TRAF. SEP. TYPE I VAR. WIDTH
POT STA. 630+10.33
Δ = 00° 58' 31" RT
℄ CONST.
WILLING & RSF.
42.00'
10.00'
64.00'
49.92'
17.92'
MATCHLINE STA. 624+00
MATCHLINE STA. 631+00
11.43'
36.35'
40.22'
2'
40.83'
22.00'
9.26'
171 625
172 626
173 627
174 628
175 629
176 630
HOMESTEAD ROAD
℄ SURVEY
℄ CONST.
N 45° 21' 02" W
PGL SHIFT +82.54, 6.00' RT.
PGL SHIFT
N 46° 21' 02" W
PGL SHIFT +10.32, 6.00' RT.
BEGIN TAPER +10.32, 26.00' RT.
TRAF. SEP. TYPE I VAR. WIDTH +90.77
PGL SHIFT +49.96, 7.00' RT.
N 45° 22' 31" W
2.5' TRAF. SEP. TYPE I END TAPER +10.00, 27.00' RT.
CONST 38 LF 24" PIPE
+08.49
50.73' RT.
EXIST. PIPE (TO REMAIN)
24" RCP #1
18" RCP #2
S-322
S-408
CONST 151 LF 30" PIPE
S-411
CONST 8.6 LF PED/BIKE RAILING (INDEX 852/862)
CONST 218 LF 24" PIPE
S-413
C & G TYPE F
6' CONC. S/W
EXIST. R/W
36'
A-1
TO REMAIN
LEELAND HEIGHTS BLVD.
PC STA. 10+78.82
DELAWARE RD.
CONST 29 LF 24" PIPE
S-325
S-324
EXIST. R/W
EXIST. R/W
EXIST. R/W
CONST 54 LF 18" PIPE
SEE LEELAND HEIGHTS BLVD. PLAN & PROFILE SHEET FOR DESIGN GEOMETRICS
SEE DELAWARE RD. PLAN & PROFILE SHEET FOR DESIGN GEOMETRICS
CONST 98 LF 24" PIPE
END CONST. SB LANES
BEGIN MILLING & RSF. SB LANES
STA. 630+52.07
OVERBUILD
0 10 50
Feet

SB INSIDE LEFT TURN LANE
+57.54 (−) 0.02 TO (+) 0.02 +07.54
NB LEFT TURN LANE
(+) 0.02 TO (−) 0.02
END CONST. SB LANES
BEGIN MILLING & RSF. SB LANES
STA. 630+64.73
PROFILE GRADE LINE
EXIST. GROUND LINE
P.I. +50.00 EL. 28.96
P.I. +00.00 EL. 27.96
P.I. +50.00 EL. 28.71
(+) 0.300%
(−) 0.400%
(−) 0.405%
28.5I
27.4
28.I
30
25
20
15
625
626
627
628
629
630
S-321
S-407
S-410
S-412
S-414
24" PIPE FROM S-322
FL 21.8
FROM S-405
18" PIPE
FL 21.8
24" PIPE
30" PIPE
30" PIPE
FL 21.4
FL 21.2
FL 22.5
30" PIPE
FL 21.1
18" PIPE
FL 23.0
12"x18" PIPE CONST JACKET
EXIST 12"x18" PIPE TO REMAIN
FL 24.4
SCALE:
1" = 50' HORZ.
1" = 5' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PUBLIC WORKS
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SOUTHWEST FLORIDA
1500 MONROE STREET (239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

PLAN & PROFILE
HOMESTEAD ROAD

STA. 624+00 TO STA. 631+00

SHEET NO. 43

EGILBERT 9/19/2016 PW:\202116\0000000003055\13.00_CAD\Homestead\roadway\plprrd18.dgn

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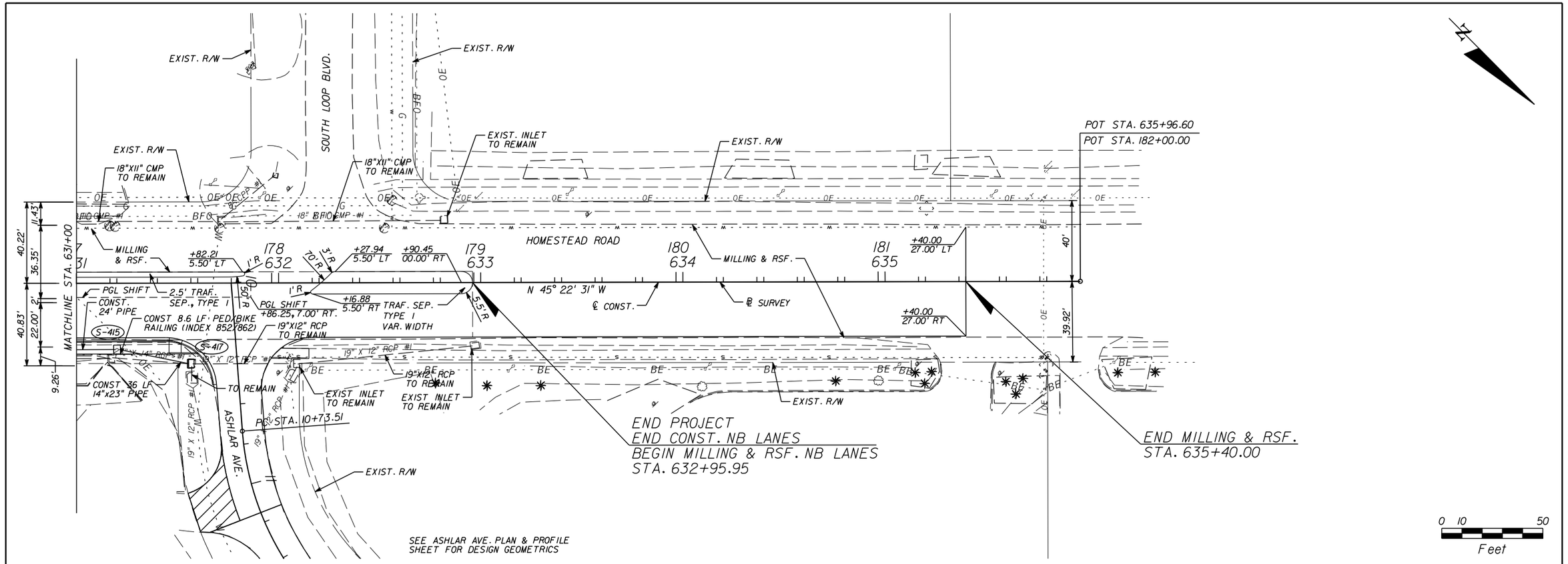

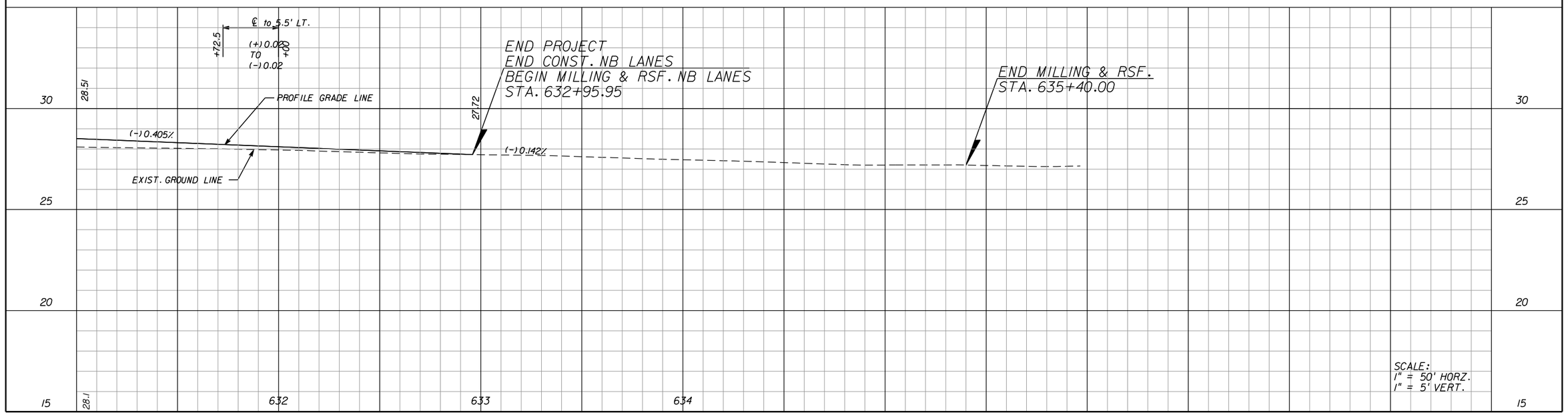

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1500 MONROE STREET FORT MYERS, FLORIDA 33901
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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
HOMESTEAD ROAD

STA. 631+00 TO STA. 632+95.95

SHEET NO. 44

EGILBERT 9/19/2016 PW:\202116\0000093055\13.00_CAD\Homestead\roadway\plprrd19.dgn

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CURVE CSUN
PI STA. = 12+07.24
DELTA = 13° 55' 58"
D = 5° 00' 00"
T = 140.36
L = 279.32
R = 1145.92
PC STA. = 10+66.88
PT STA. = 13+46.20

EXIST. R/W

74.62'

75.38'

EXIST. R/W

7 8 9 10 11 12 13

CONST. 14" X 23" PIPE

BEGIN CONSTRUCTION
STA. 8+86.35

N 44° 37' 45" E

PGL

N 45° 35' 31" E

END CONSTRUCTION
STA. 11+64.15

SUNRISE BLVD.

℄ CONST. SUNRISE BLVD.

PGL

CSUN

EXIST. S/W

EXIST. R/W

50.68'

49.32'

POT STA. 13+46.20

C & G TYPE F
℄ CONST.
℄ SURVEY
6' CONC. S/W
547+31.90
45.00' LT.

547+17.91
37.49' LT

+46.85
31.16' LT

RETURN NO. 3

+31.70
32.94' LT

+35.23
32.00' LT.

+22.40
12.00' LT

+86.35
24.00' LT

+86.35
12.00' LT

+86.35
12.00' RT

+86.35
24.00' RT

+22.40
12.00' RT

+22.40
32.00' RT

+32.74
33.72' RT.

+46.91
32.39' RT.

RETURN NO. 1

545+93.24
37.00' LT.

545+77.03
45.00' LT.

C & G TYPE F
6' CONC. S/W

POT STA. 546+22.58
Δ = 0° 48' 37" RT
℄ CONST. 92

HOMESTEAD ROAD

CONST. 36" PIPE

6' CONC. S/W
SLOPE EASEMENT
C & G TYPE F
547+34.80
45.03' RT.
547+18.46
41.18' RT.

RETURN NO. 4
41.51' LT.
+65.80
50.02' LT.

+99.72
50.25' LT

MATCH EXIST. S/W

+64.15
35.00' LT

+66.52
0.50' RT

75.00' R
+75.47
0.00' LT

75.00' R
+75.47
11.00' RT

+00.00
0.00' RT

+00.00
11.00' RT

+64.15
0.00' LT

+64.15
11.00' RT

TYPE D CURB

+64.15
23.50' RT

+66.44
19.43' RT

5.00' R

75.00' R
+78.10
31.50' RT

+67.70
32.98' RT.

RETURN NO. 2

+54.04
31.14' RT.

CONST 24" PIPE
545+93.24
37.00' RT.

545+78.11
45.00' RT

C & G TYPE F
6' CONC. S/W
CONST 24" PIPE

CONST 24" PIPE

EXIST. R/W

STA. 546+61.37 ℄ CONST. HOMESTEAD RD.
POT STA. 10+00.00 ℄ CONST. SUNRISE BLVD.

STA. 92+64.98 ℄ SURVEY HOMESTEAD RD.
POT STA. 9+99.45 ℄ CONST. SUNRISE BLVD.

40.00' R
75.00' CR (TYP.)
12.00' R
89°04'57"
547
546

CR-B
S-135
S-136
S-137
S-138

0 10 50
Feet

CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 1	545+97.43	37.00 LT	31.07	9+22.40	24.00 RT	29.46
NO. 2	545+96.45	37.00 RT	31.07	10+78.10	23.50 RT	29.65
NO. 3	9+24.02	24.00 LT	29.48	547+24.14	37.00 LT	30.58
NO. 4	10+76.32	35.00 LT	29.45	547+36.27	37.00 RT	30.54

PROFILE CONTROLLED BY ROADWAY CROSS SLOPE

74.00'

PROFILE GRADE LINE

29.60

31.36

31.36

(+) 0.366%
(+) 0.953%
(+) 2.500%
(+) 2.000%
(-) 2.000%
(-) 1.762%
(-) 1.000%
(-) 0.341%
(-) 0.459%

PROFILE GRADE LINE

29.09

PI +30.00
EL. 30.02

PI +63.00
EL. 30.84

PI +37.00
EL. 30.84

PI +90.00
EL. 30.73

BEGIN CONSTRUCTION
MATCH EXISTING
STA. 8+86.35

EXIST. GROUND LINE

27.30

27.67

RT DITCH PROFILE

END CONSTRUCTION
MATCH EXISTING
STA. 11+64.15

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

35 30 25 20

7+00 8+00 9+00 10+00 11+00 12+00 13+00

REVISIONS					
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SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

PLAN & PROFILE
SUNRISE BLVD.

STA. 8+86.35 TO STA. 11+64.15

SHEET NO. 45

EGILBERT 9/19/2016 PW:\202116\0000000\0000093055\13.00_CAD\Homestead\roadway\plprrd20.dgn

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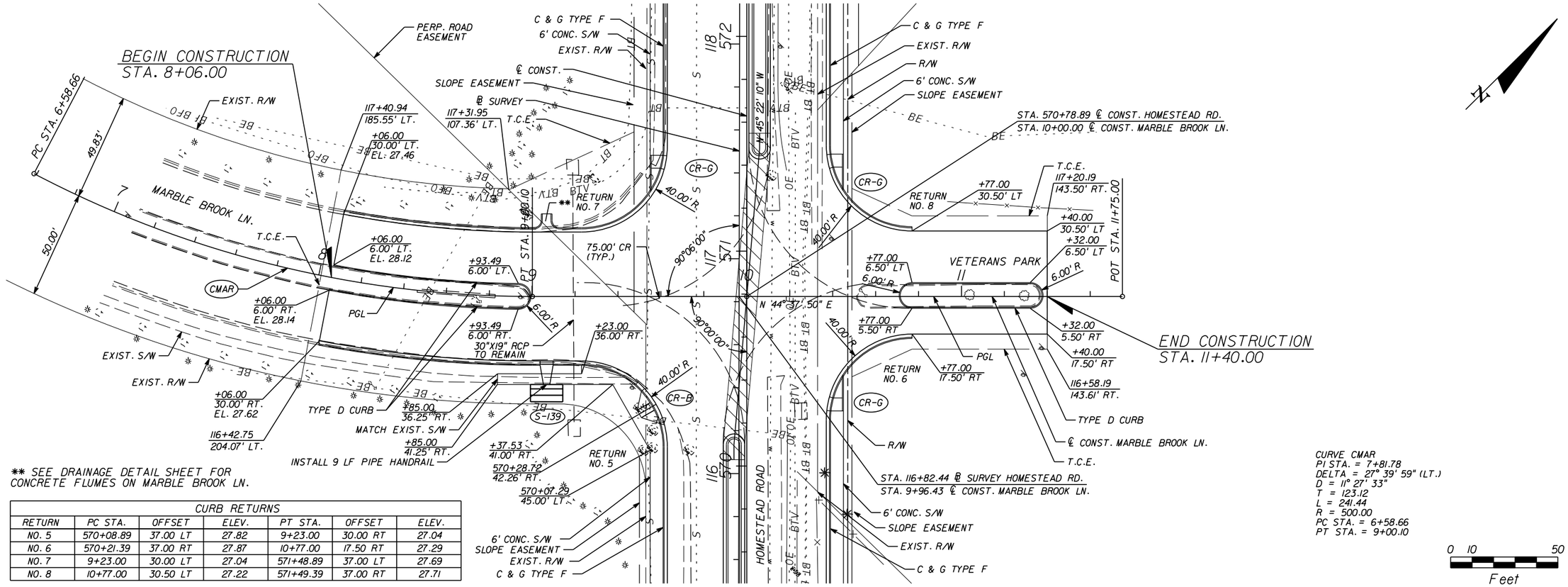
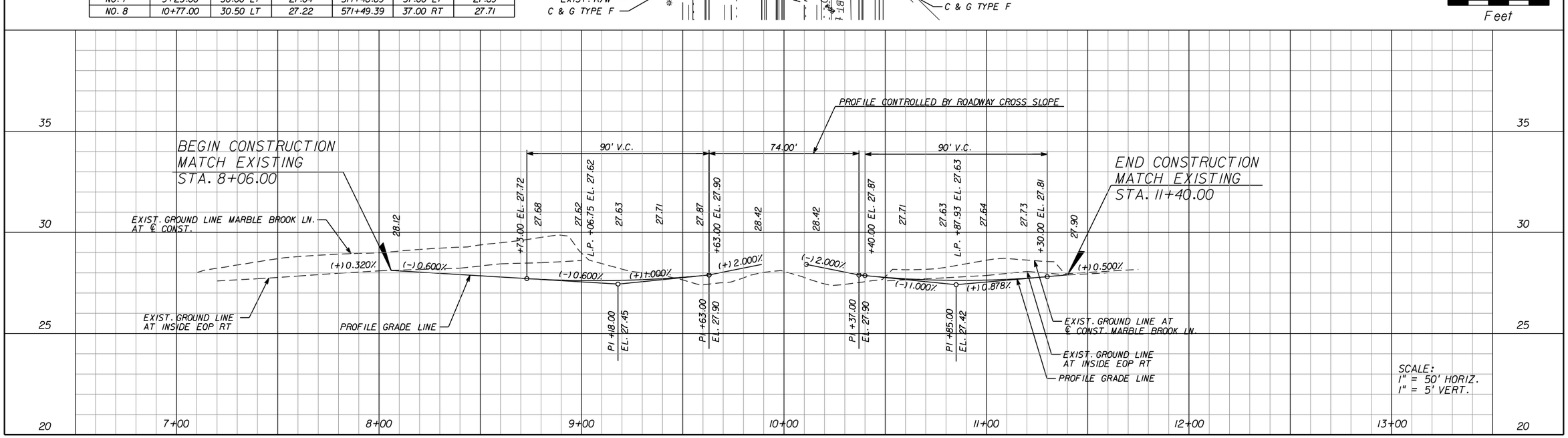


** SEE DRAINAGE DETAIL SHEET FOR CONCRETE FLUMES ON MARBLE BROOK LN.

CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 5	570+08.89	37.00 LT	27.82	9+23.00	30.00 RT	27.04
NO. 6	570+21.39	37.00 RT	27.87	10+77.00	17.50 RT	27.29
NO. 7	9+23.00	30.00 LT	27.04	571+48.89	37.00 LT	27.69
NO. 8	10+77.00	30.50 LT	27.22	571+49.39	37.00 RT	27.71

CURVE CMAR
PI STA. = 7+81.78
DELTA = 27° 39' 59" (LT.)
D = 11° 27' 33"
T = 123.12
L = 241.44
R = 500.00
PC STA. = 6+58.66
PT STA. = 9+00.10

0 10 50
Feet



REVISIONS					
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DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
MARBLE BROOK LN.

STA. 8+06.00 TO STA. 11+40.00

SHEET NO. 46

EGILBERT 9/19/2016 PW:\202116\0000006000\93055\13.00_CAD\Homestead\roadway\plprrd21.dgn

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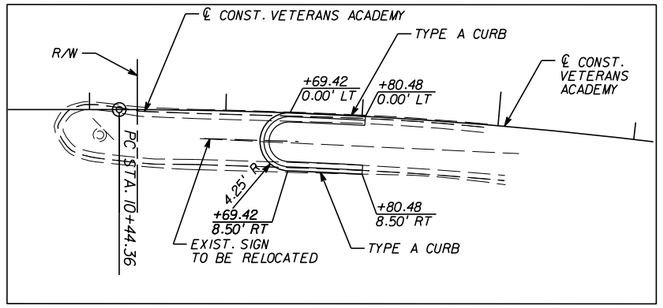
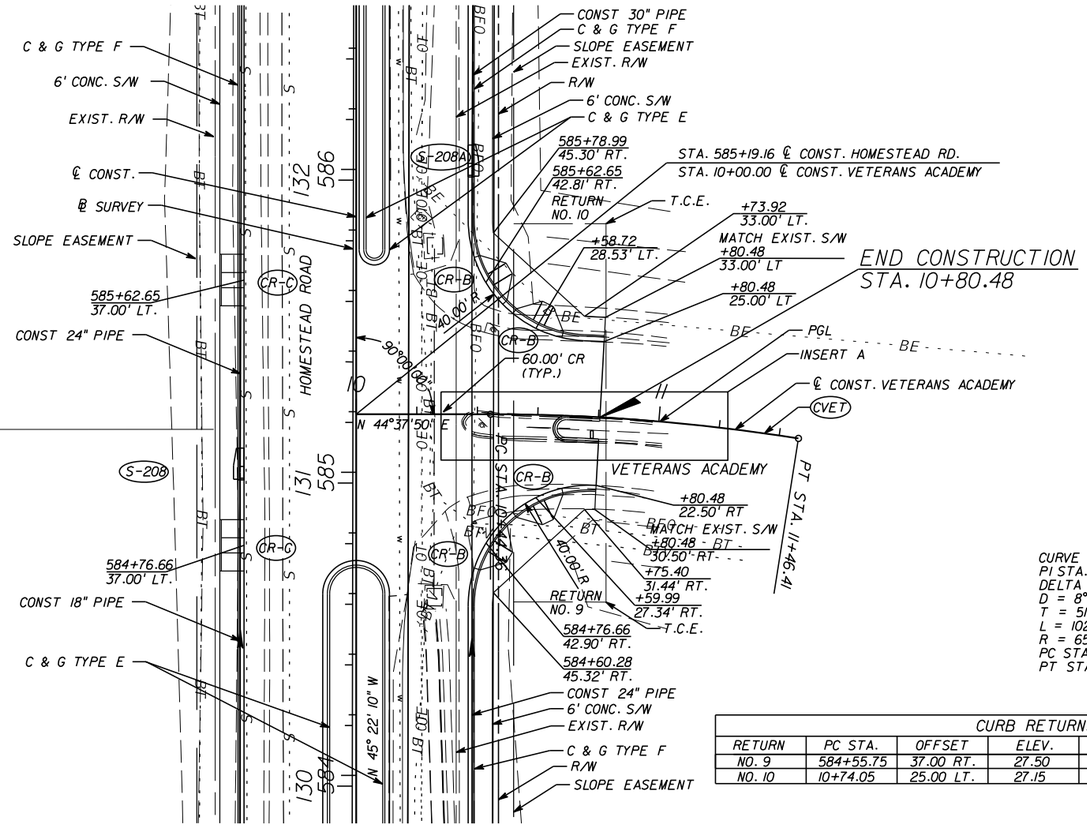


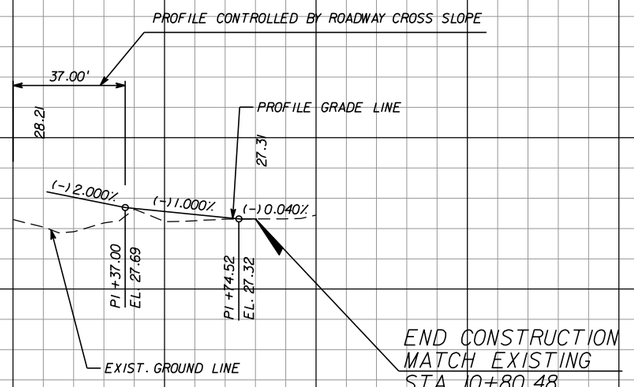
INSERT A
(NTS)



CURVE CVET
PI STA. = 10+95.49
DELTA = 8° 58' 03"
D = 8° 47' 12"
T = 51.13'
L = 102.06'
R = 652.08'
PC STA. = 10+44.36
PT STA. = 11+46.41

CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 9	584+55.75	37.00 RT.	27.50	10+80.48	22.50 RT.	26.93
NO. 10	10+74.05	25.00 LT.	27.15	585+83.42	37.00 RT.	27.88

0 10 50
Feet



SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

PLAN & PROFILE
VETERANS ACADEMY

STA. 10+00.00 TO STA. 10+80.48

SHEET NO. 47

EGILBERT 9/19/2016 PW:\202116\0000000003055\13.00_CAD\Homestead\roadway\plprrd22.dgn

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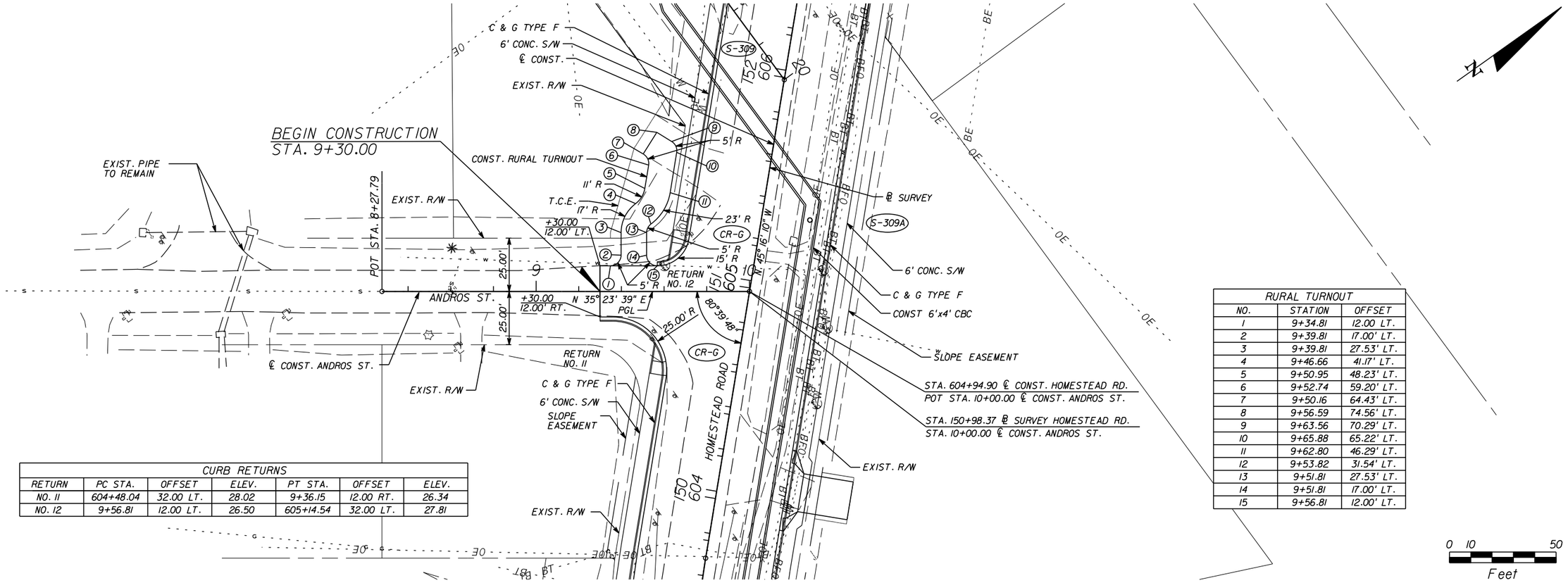
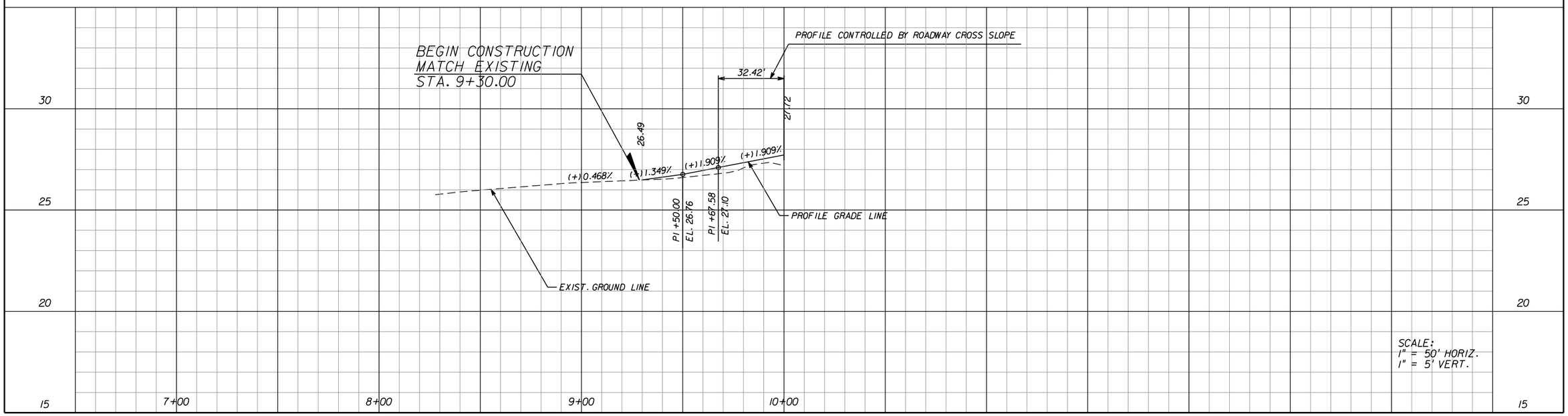


CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 11	604+48.04	32.00 LT.	28.02	9+36.15	12.00 RT.	26.34
NO. 12	9+56.81	12.00 LT.	26.50	605+14.54	32.00 LT.	27.81

RURAL TURNOUT		
NO.	STATION	OFFSET
1	9+34.81	12.00 LT.
2	9+39.81	17.00' LT.
3	9+39.81	27.53' LT.
4	9+46.66	41.17' LT.
5	9+50.95	48.23' LT.
6	9+52.74	59.20' LT.
7	9+50.16	64.43' LT.
8	9+56.59	74.56' LT.
9	9+63.56	70.29' LT.
10	9+65.88	65.22' LT.
11	9+62.80	46.29' LT.
12	9+53.82	31.54' LT.
13	9+51.81	27.53' LT.
14	9+51.81	17.00' LT.
15	9+56.81	12.00' LT.

0 10 50
Feet



SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

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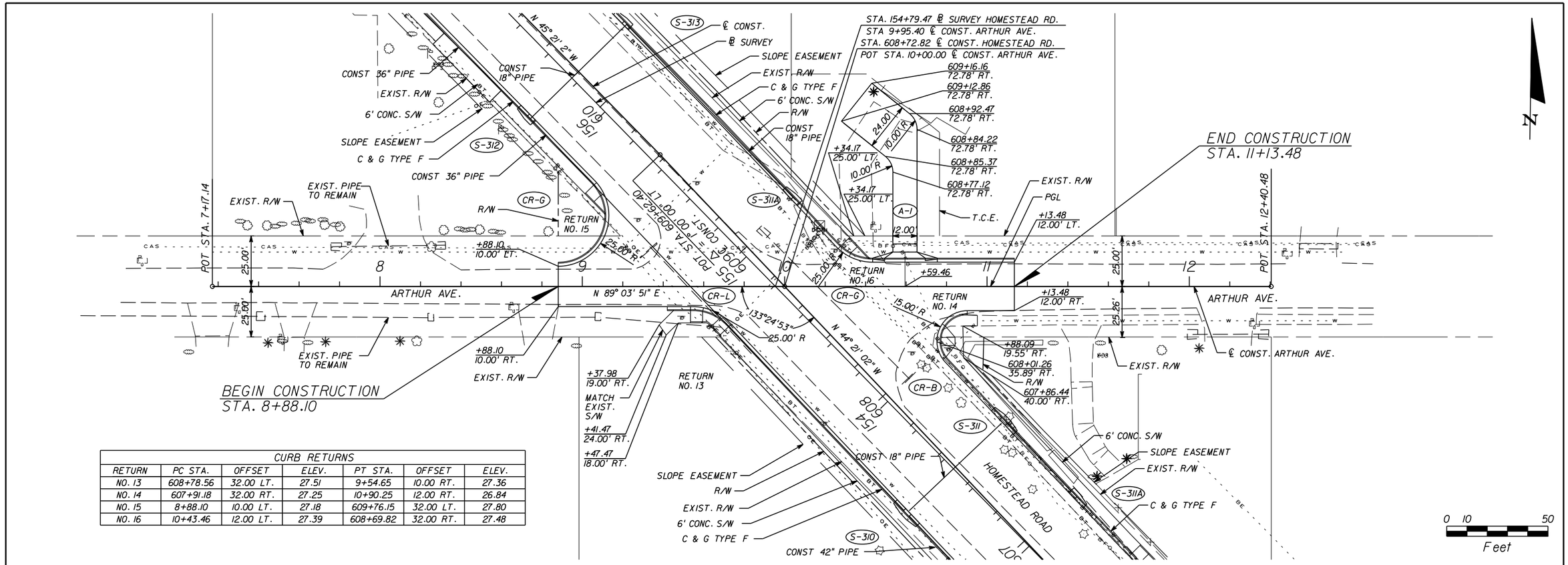
DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
ANDROS ST.

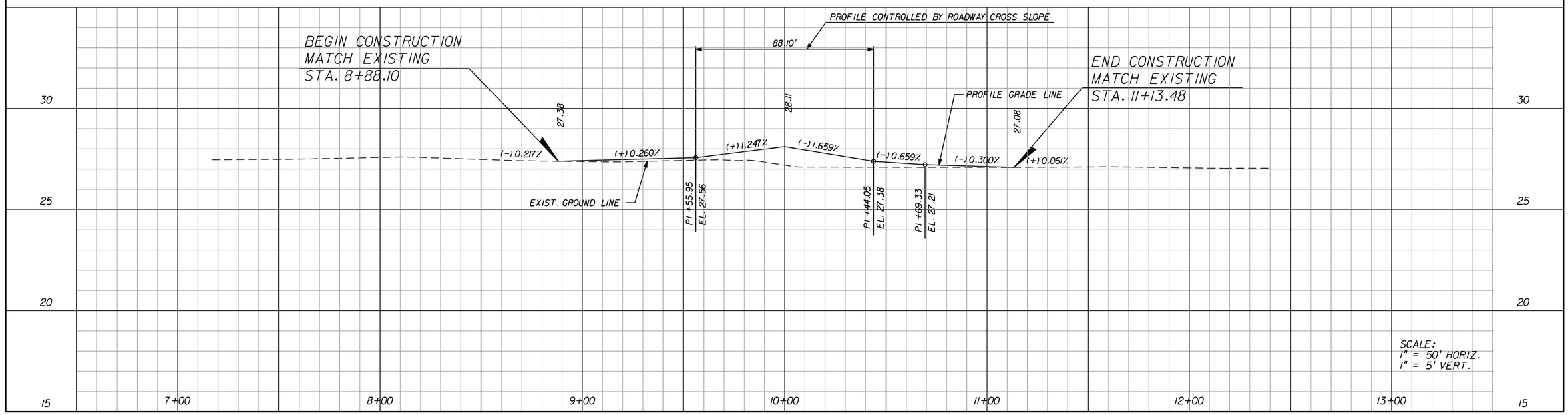
STA. 9+30.00 TO STA. 10+00.00

SHEET NO. 48

EGILBERT 9/19/2016 PW:\202116\0000000\0000093055\13.00_CAD\Homestead\roadway\plprrd23.dgn



CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 13	608+78.56	32.00 LT.	27.51	9+54.65	10.00 RT.	27.36
NO. 14	607+91.18	32.00 RT.	27.25	10+90.25	12.00 RT.	26.84
NO. 15	8+88.10	10.00 LT.	27.18	609+76.15	32.00 LT.	27.80
NO. 16	10+43.46	12.00 LT.	27.39	608+69.82	32.00 RT.	27.48



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PLAN & PROFILE
ARTHUR AVE.

STA. 8+88.10 TO STA. 11+13.48

SHEET NO. 49

EGILBERT 9/19/2016 PW:\202116\0000003055\13.00_CAD\Homestead\roadway\plprrd24.dgn

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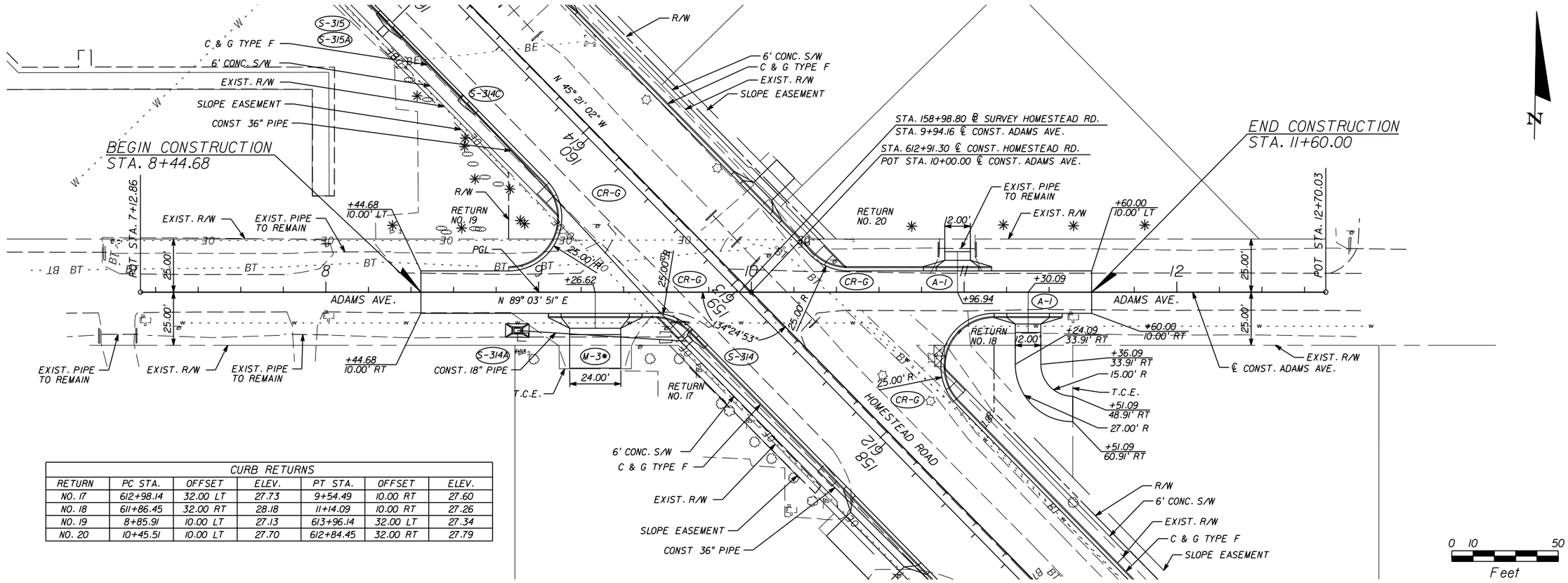
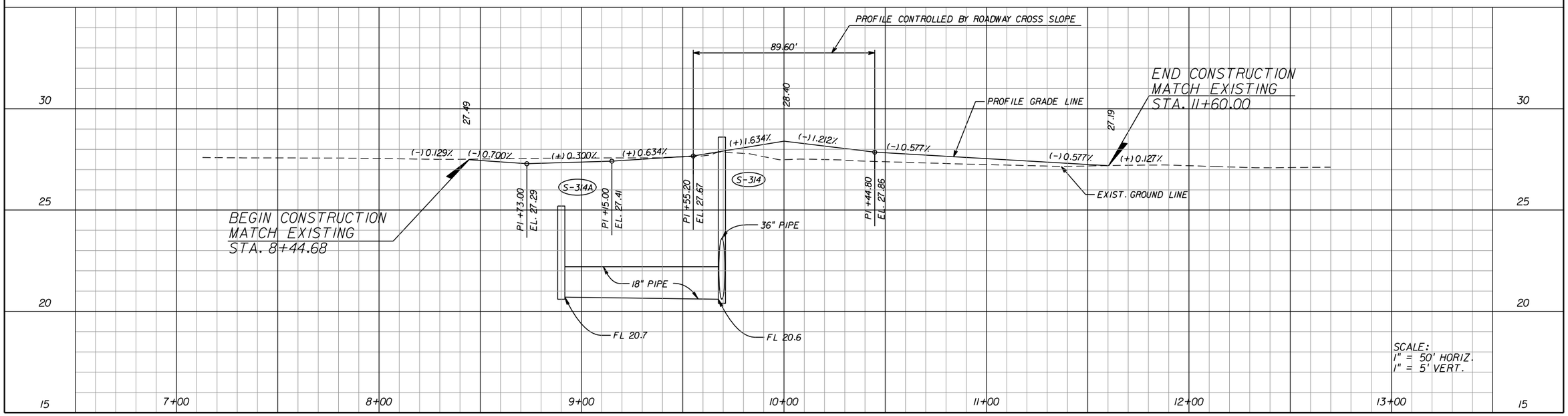


CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 17	612+98.14	32.00 LT	27.73	9+54.49	10.00 RT	27.60
NO. 18	611+86.45	32.00 RT	28.18	11+14.09	10.00 RT	27.26
NO. 19	8+85.91	10.00 LT	27.13	613+96.14	32.00 LT	27.34
NO. 20	10+45.51	10.00 LT	27.70	612+84.45	32.00 RT	27.79



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

PLAN & PROFILE
ADAMS AVE.

STA. 8+44.68 TO STA. 11+60.00

SHEET NO. 50

EGILBERT 9/19/2016 PW:\202116\0000000\0000000\93055\13.00_CAD\Homestead\roadway\plprrd25.dgn

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BEGIN MILLING & RSF.
STA. 13+36.97

END MILLING & RSF.
BEGIN CONSTRUCTION
STA. 15+08.31

℄ CONST. ALABAMA RD.
STA. 15+96.49
℄ CONST. ARIZONA RD.
STA. 10+00.00

REPLACE DRIVEWAY USING S/W CONC. (6" THICK) PER PAY ITEM 522-2

EXIST. PIPE TO REMAIN

MILL & RSF.

EXIST. R/W

ALABAMA RD.

ARIZONA ROAD

℄ CONST. ARIZONA RD.

EXIST. R/W

25.00'

25.00'

EXIST. R/W

CONST. 4 LF OF 23"x14" PIPE W/ CONC. JACKET

+78.85

CONST. 33 LF 18" PIPE

CONST. 9 LF PIPE HANDRAIL

CONST. 37 LF 18" PIPE

CONST. 71 LF 18" PIPE

CONST. 65 LF 18" PIPE

CONST. 18" PIPE

CONST. 18" PIPE

CONST. 18" PIPE

T.C.E.

T.C.E.

C & G TYPE F
6' CONC. S/W

EXIST. R/W

GRAVITY WALL (INDEX 520) & PEDESTRIAN/BICYCLE RAILING (INDEX 852/862)

GRAVITY WALL (INDEX 520) & PEDESTRIAN/BICYCLE RAILING (INDEX 852/862)

BEGIN RAILING
+15.43

BEGIN WALL
+21.50, 35.25' LT.

BEGIN WALL & RAILING
+82.83
25.17' RT.

END WALL & RAILING
+40.00, 36.17' LT.

END WALL & RAILING
+80.00
25.17' RT.

SLOPE EASEMENT

SLOPE EASEMENT

EXIST. R/W

EXIST. R/W

EXIST. R/W

CURVE CLEE
PI STA. = 20+82.16
DELTA = 33° 36' 52" (RT.)
D = 21° 03' 53"
T = 82.16
L = 159.58
R = 272.00
PC STA. = 20+00.00
PT. STA. = 21+59.58

STA. 624+94.58 ℄ CONST. HOMESTEAD RD.
STA. 20+00.00 ℄ CONST. LEELAND HEIGHTS BLVD.

FLORIDA RD. W

GEORGIA RD.

ARKANSAS RD.

HOMESTEAD ROAD

℄ CONST. ALABAMA RD. (*)

SEE INTERSECTION DETAIL (**)

CONST 15 LF 18" PIPE

CONST 166 LF 18" PIPE

CONST 18" PIPE

CONST 24" PIPE

CONST 30" PIPE

EXIST. R/W

6' CONC. S/W

C & G TYPE F

2' TRAFFIC SEPARATOR TYPE IV

EXIST. PIPE TO REMAIN AND CONNECT TO S-325

MATCH EXIST. S/W +00.00, 30.00' RT.

FOR DRAINAGE JOINT SPACING SEE DRAINAGE DETAILS SHEET

BUS STOP #8 SEE DETAIL SHEET

SLOPE EASEMENT

CONST 9 LF PIPE HANDRAIL

CONST 111 LF 18" PIPE

CONST 63 LF 18" PIPE

LEELAND HEIGHTS BLVD.

TYPE D CURB

MILLING & RSF.

MILLING AND RESURFACING

SIDEWALK BY OTHERS FPID: 433238-1-52-01

EXIST. PIPE TO REMAIN

℄ CONST. LEELAND HEIGHTS BLVD.

END CONSTRUCTION EB LANES
BEGIN MILLING & RSF.
STA. 22+89.92

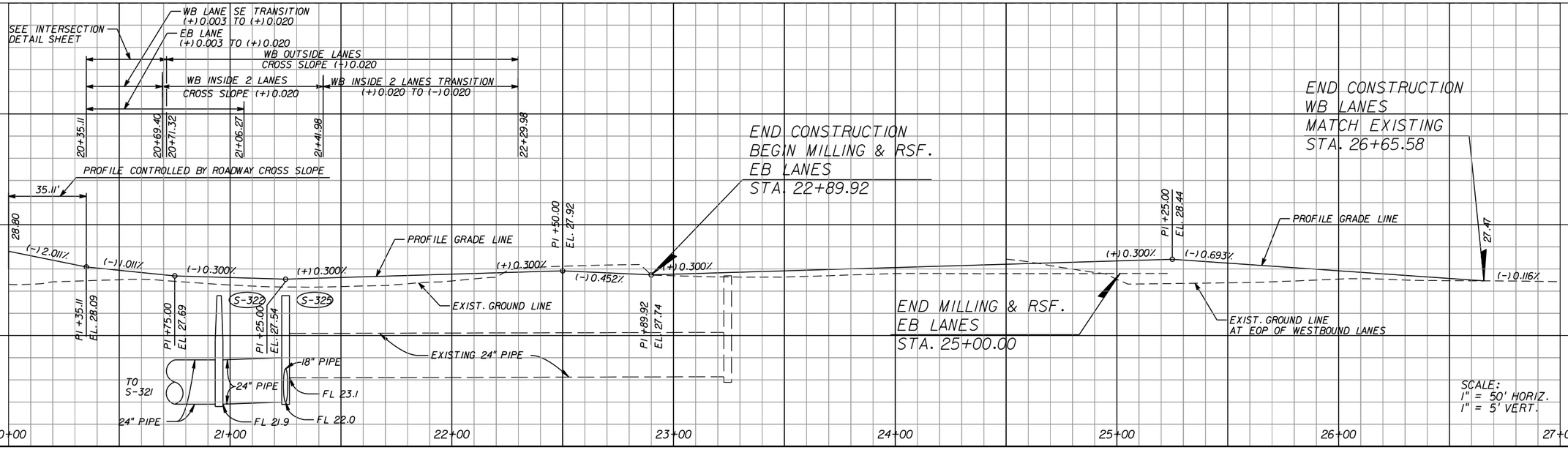
END CONSTRUCTION WB LANES
STA. 26+65.58

END MILLING & RSF. EB LANES
STA. 25+00.00

* SEE ALABAMA RD. PLAN & PROFILE SHEET FOR DESIGN GEOMETRICS

** SEE ALABAMA RD. - LEELAND HEIGHTS BLVD. INTERSECTION DETAIL SHEET FOR DESIGN GEOMETRICS

0 10 50
Feet



REVISIONS					
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
LEELAND HEIGHTS BLVD.

STA. 20+00.00 TO STA. 26+65.58

SHEET NO. 52

EGILBERT 9/19/2016 PW:\202116\0000020005\93055\13.00_CAD\Homestead\roadway\plprrd27.dgn

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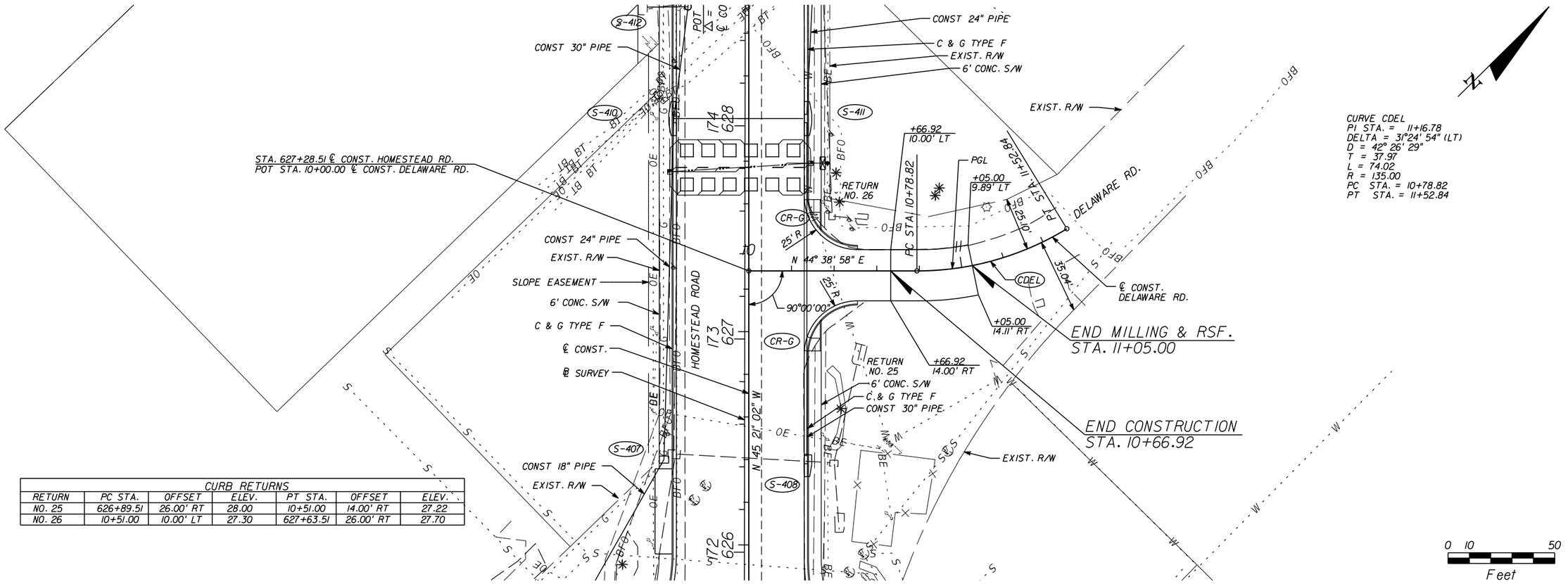
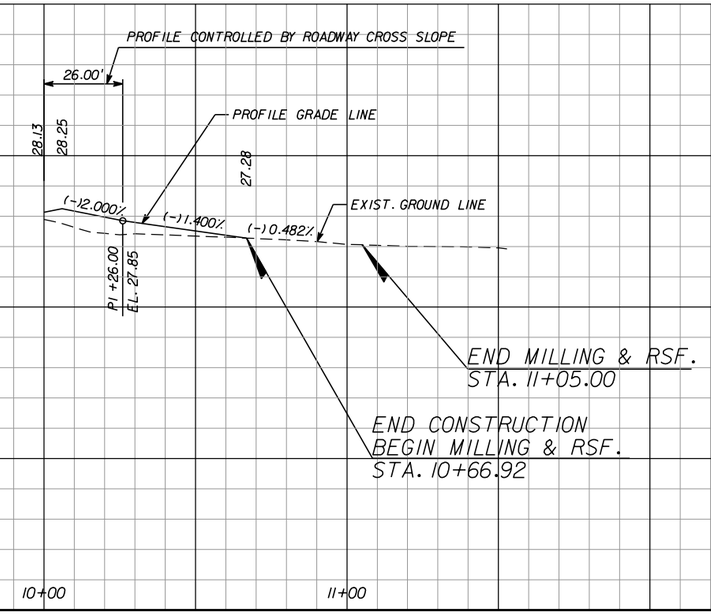


CURVE CDEL
PI STA. = 11+16.78
DELTA = 31°24' 54" (LT)
D = 42° 26' 29"
T = 37.97
L = 74.02
R = 135.00
PC STA. = 10+78.82
PT STA. = 11+52.84

CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 25	626+89.51	26.00' RT	28.00	10+51.00	14.00' RT	27.22
NO. 26	10+51.00	10.00' LT	27.30	627+63.51	26.00' RT	27.70



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EGILBERT 9/19/2016 PW:\202116\0000000\0000000\93055\13.00_CAD\Homestead\roadway\plprrd28.dgn

PLAN & PROFILE
DELAWARE RD.

STA. 10+00.00 TO STA. 10+59.00

SHEET NO. 53

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END MILLING & RSF.
BEGIN CONSTRUCTION
STA. 9+11.00

BEGIN MILLING & RSF.
STA. 8+80.00

+38.80
32.13' LT

+02.11
32.13' LT

+11.00
31.94' LT

+80.00
12.65' LT

EXIST. R/W

S-414

RETURN
NO. 28

POT STA. 630+50.33
Δ = 00° 58' 31"
℄ CONST.

N 45° 22' 31" W

TRAF. SEP. TYPE I, VAR. WIDTH
C & G TYPE F
6' CONC. S/W
EXIST. R/W

STA. 176+11.20 ℄ SURVEY HOMESTEAD RD.
POT STA. 9+29.96 ℄ CONST. WESTMINSTER ST.

STA. 630+07.80 ℄ CONST. HOMESTEAD RD.
POT STA. 10+00.00 ℄ CONST. WESTMINSTER ST.

℄ CONST. WESTMINSTER ST.

CWES

WESTMINSTER ST.

POT STA. 7+10.00

PC STA. 7+31.48

30.73'

28.92'

25' R

35' R

PGL

N 41° 35' 15" E

PT STA. 9+13.29

+80.00
9.50' RT

+11.00
9.50' RT

EXIST. R/W

87°56'17"

RETURN
NO. 27

CR-G

℄ CONST.
℄ SURVEY
TRAF. SEP. TYPE I, VAR. WIDTH
CONST. 24" PIPE

SLOPE EASEMENT
EXIST. R/W
6' CONC. S/W
C & G TYPE F
CONST 18" PIPE
CONST 30" PIPE

S-412

S-413

HOMESTEAD ROAD

N 46° 21' 02" W

POT STA. 629+10.32
Δ = 1°00'00" LT
℄ CONST.

CONST. 24" PIPE

OVERBUILD

0 10 50
Feet

CURVE CWES
PI STA. = 8+26.40
DELTA = 40°38' 09"
D = 22° 21' 02"
T = 94.92
L = 181.81
R = 256.35
PC STA. = 7+31.48
PT STA. = 9+13.29
E = N.C.

CURB RETURNS

RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 27	629+59.06	31.11' LT	28.01	9+32.29	9.50' RT	27.28
NO. 28	9+40.40	12.50' LT	27.38	630+50.00	27.00' LT	27.22

PROFILE CONTROLLED BY ROADWAY CROSS SLOPE

28.63'

28.78

28.72

27.04

(+) 2.068%

(+) 2.000%

(+) 1.000%

PI +71.37
EL. 28.25

PROFILE GRADE LINE

EXIST. GROUND LINE

BEGIN MILLING & RSF.
STA. 8+80.00

BEGIN CONSTRUCTION
STA. 9+11.00

30
25
20
15

7+00
8+00
9+00
10+00

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

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REVISIONS

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

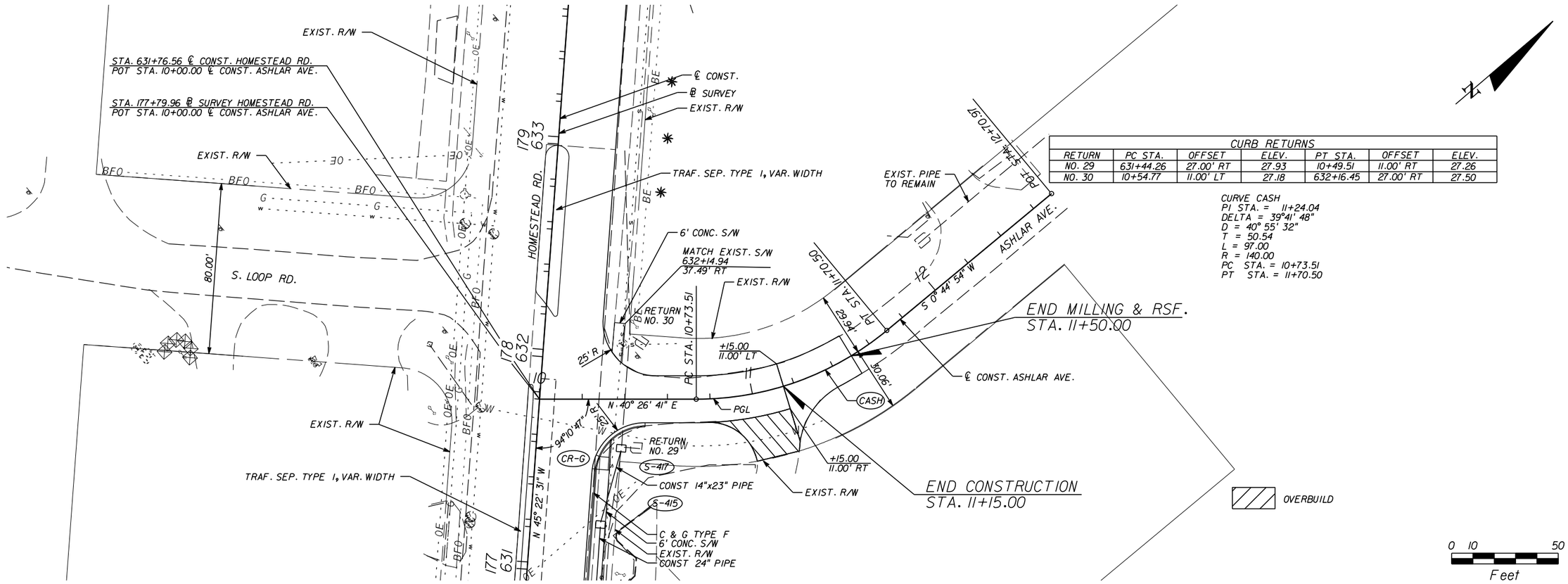
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

PLAN & PROFILE
WESTMINSTER ST.

STA. 9+31.31 TO STA. 10+00.00

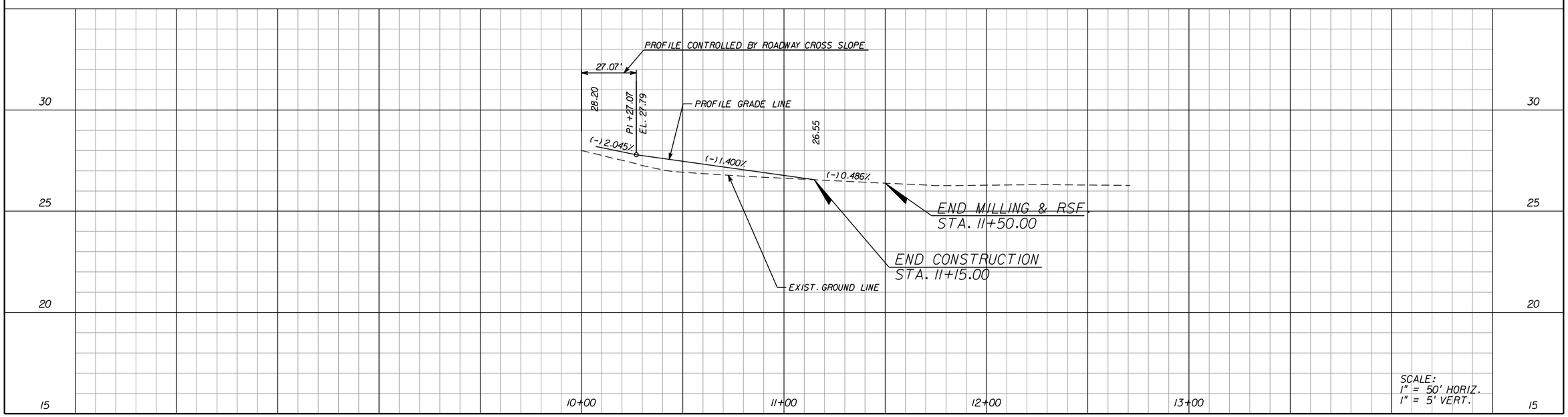
SHEET NO. 54

EGILBERT 9/19/2016 PW:\202116\0000000\0000000\93055\13.00_CAD\Homestead\roadway\plprrd29.dgn



CURB RETURNS						
RETURN	PC STA.	OFFSET	ELEV.	PT STA.	OFFSET	ELEV.
NO. 29	631+44.26	27.00' RT	27.93	10+49.51	11.00' RT	27.26
NO. 30	10+54.77	11.00' LT	27.18	632+16.45	27.00' RT	27.50

CURVE CASH
PI STA. = 11+24.04
DELTA = 39°41' 48"
D = 40° 55' 32"
T = 50.54
L = 97.00
R = 140.00
PC STA. = 10+73.51
PT STA. = 11+70.50



SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

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SOUTHWEST FLORIDA
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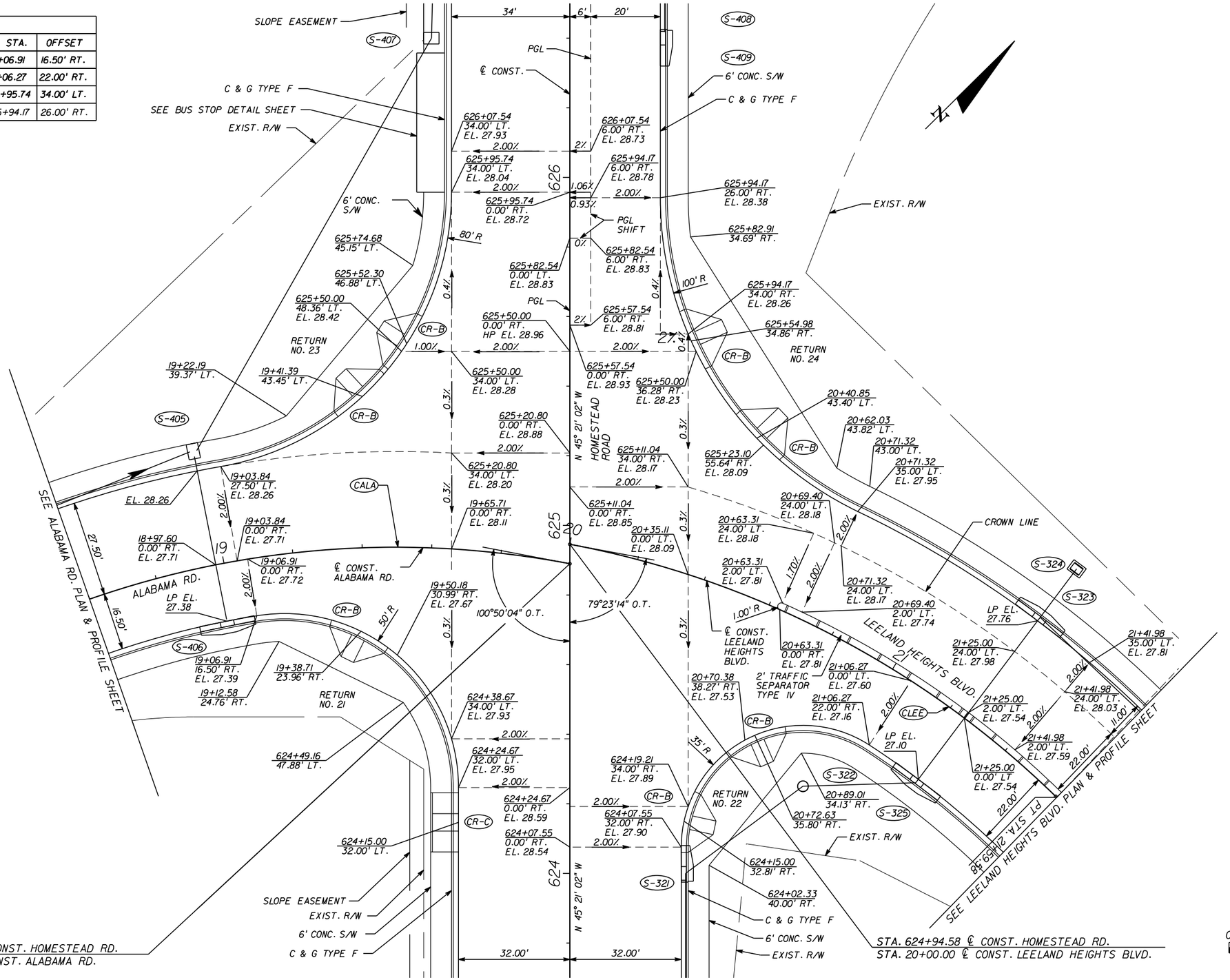
DEPARTMENT of TRANSPORTATION

PLAN & PROFILE
ASHLAR AVE.
STA. 10+00.00 TO STA. 11+00.00

SHEET NO. 55

EGILBERT 9/19/2016 PW:\202116\0000000\0000093055\13.00_CAD\Homestead\roadway\plprrd30.dgn

CURB RETURNS				
RETURN	PC STA.	OFFSET	PT STA.	OFFSET
NO. 21	624+24.67	32.00' LT.	19+06.91	16.50' RT.
NO. 22	624+07.55	32.00' RT.	21+06.27	22.00' RT.
NO. 23	19+03.84	27.50' LT.	625+95.74	34.00' LT.
NO. 24	20+77.29	35.00' LT.	625+94.17	26.00' RT.



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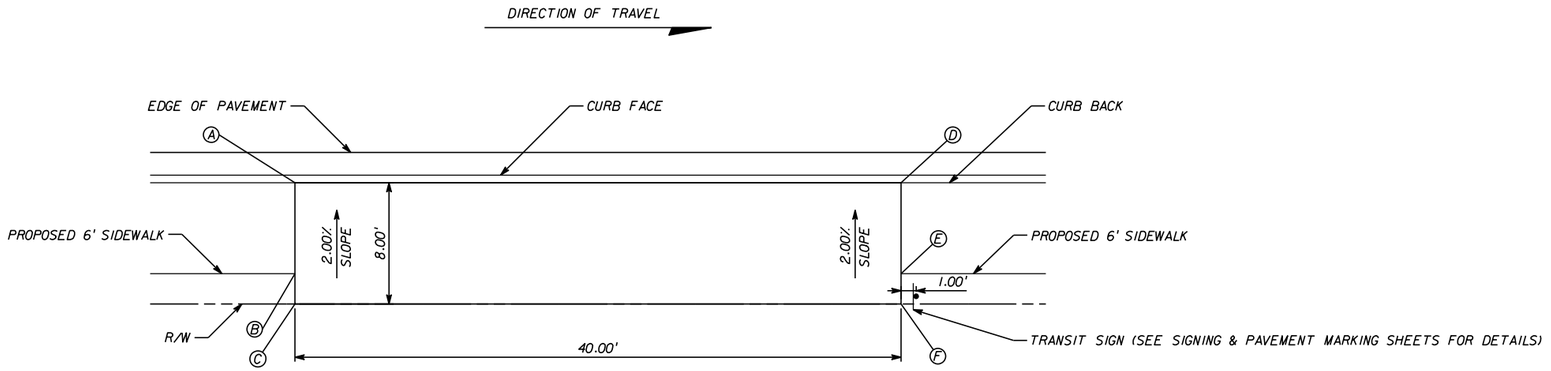
EGILBERT 9/19/2016 PW:\202116\000000000003055\13.00_CAD\Homestead\roadway\intdrd01.dgn

INTERSECTION DETAIL
ALABAMA RD. - LEELAND HEIGHTS BLVD.

SHEET NO. 56



TRANSIT STOP TYPICAL DETAIL
HOMESTEAD ROAD
LEELAND HEIGHTS BOULEVARD

0 2 10
Feet

NOTES:

1. ALL CONCRETE SHALL BE 6" THICK FOR ALL PADS.
2. THE DEPLOYMENT AREA SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE ADA STANDARDS.

BUS STOP	PT.	STA.	OFFSET	PT.	STA.	OFFSET	PT.	STA.	OFFSET	PT.	STA.	OFFSET	PT.	STA.	OFFSET	PT.	STA.	OFFSET
1	Ⓐ	610+40.00	34.00' RT.	Ⓑ	610+40.00	40.00' RT.	Ⓒ	610+40.00	42.00' RT.	Ⓓ	610+80.00	34.00' RT.	Ⓔ	610+80.00	40.00' RT.	Ⓕ	610+80.00	42.00' RT.
2	Ⓐ	610+40.00	34.00' LT.	Ⓑ	610+40.00	40.00' LT.	Ⓒ	610+40.00	42.00' LT.	Ⓓ	610+80.00	34.00' LT.	Ⓔ	610+80.00	40.00' LT.	Ⓕ	610+80.00	42.00' LT.
3	Ⓐ	615+43.50	34.00' LT.	Ⓑ	615+33.50	40.00' LT.	Ⓒ	615+33.50	42.00' LT.	Ⓓ	615+83.50	34.00' LT.	Ⓔ	615+83.50	40.00' LT.	Ⓕ	615+83.50	42.00' LT.
4	Ⓐ	615+90.00	34.00' RT.	Ⓑ	615+90.00	40.00' RT.	Ⓒ	615+90.00	42.00' RT.	Ⓓ	616+30.00	34.00' RT.	Ⓔ	616+30.00	40.00' RT.	Ⓕ	616+30.00	42.00' RT.
5	Ⓐ	621+39.00	34.00' RT.	Ⓑ	621+39.00	40.00' RT.	Ⓒ	621+39.00	42.00' RT.	Ⓓ	621+79.00	34.00' RT.	Ⓔ	621+79.00	40.00' RT.	Ⓕ	621+79.00	42.00' RT.
6	Ⓐ	622+20.00	34.00' LT.	Ⓑ	622+20.00	40.00' LT.	Ⓒ	622+20.00	42.00' LT.	Ⓓ	622+60.00	34.00' LT.	Ⓔ	622+60.00	40.00' LT.	Ⓕ	622+60.00	42.00' LT.
7	Ⓐ	625+96.65	36.00' LT.	Ⓑ	625+96.65	42.00' LT.	Ⓒ	625+96.65	44.00' LT.	Ⓓ	626+36.65	36.00' LT.	Ⓔ	626+36.65	42.00' LT.	Ⓕ	626+36.65	44.00' LT.
8	Ⓐ	23+92.86	37.00' LT.	Ⓑ	23+92.86	43.00' LT.	Ⓒ	23+92.86	45.00' LT.	Ⓓ	24+32.86	37.00' LT.	Ⓔ	24+32.86	43.00' LT.	Ⓕ	24+32.86	45.00' LT.

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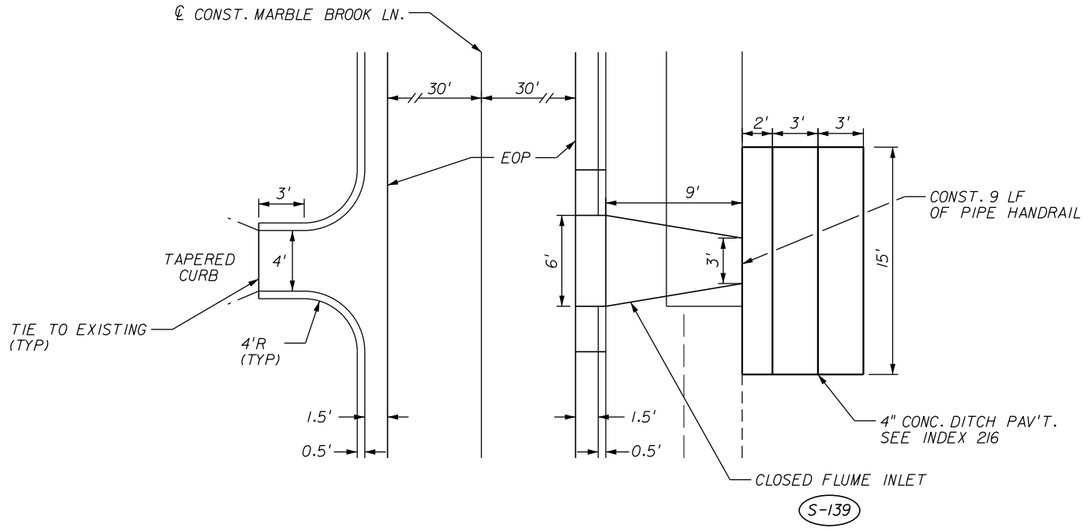
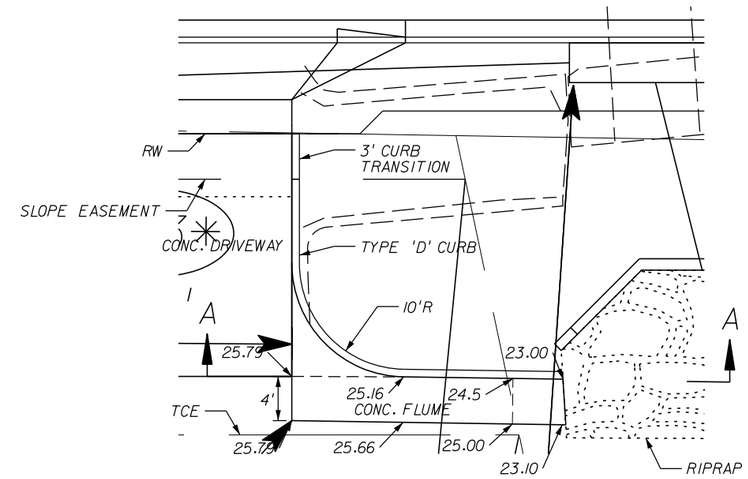
BUS STOP DETAIL
HOMESTEAD ROAD

SHEET NO.
57



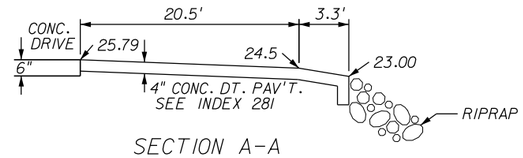
CONCRETE FLUMES (NTS)

STA 9+06.75 (LT & RT)
MARBLE BROOK LN.

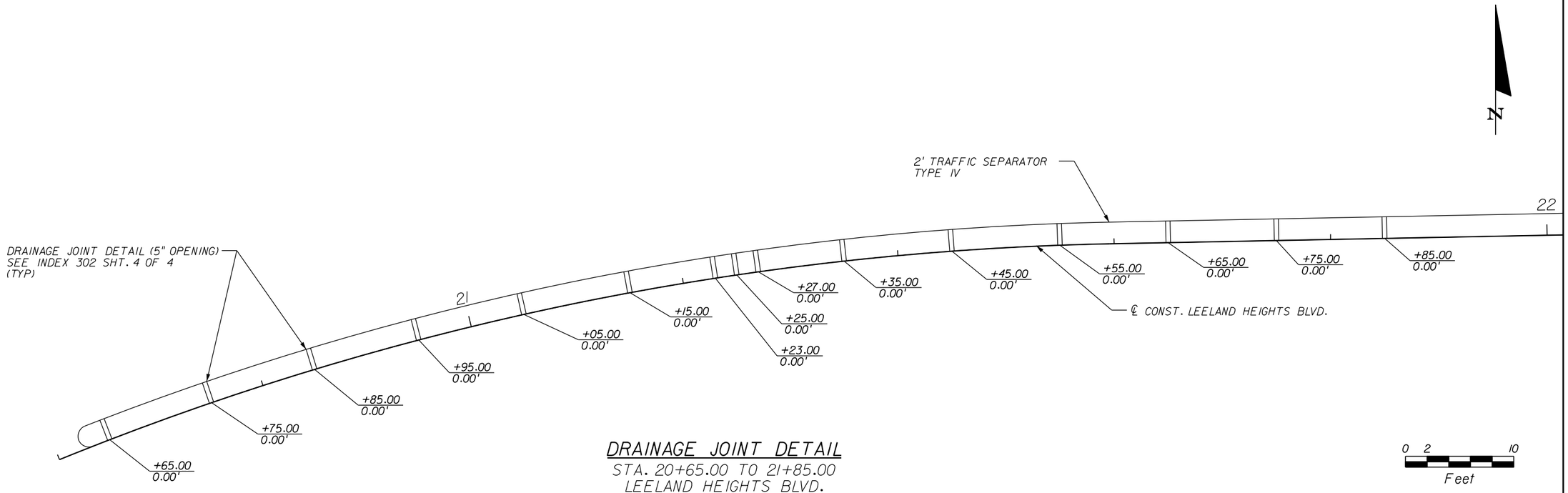


CONCRETE FLUME (NTS)

STA. 603+00 (RT)



SECTION A-A



DRAINAGE JOINT DETAIL

STA. 20+65.00 TO 21+85.00
LEELAND HEIGHTS BLVD.

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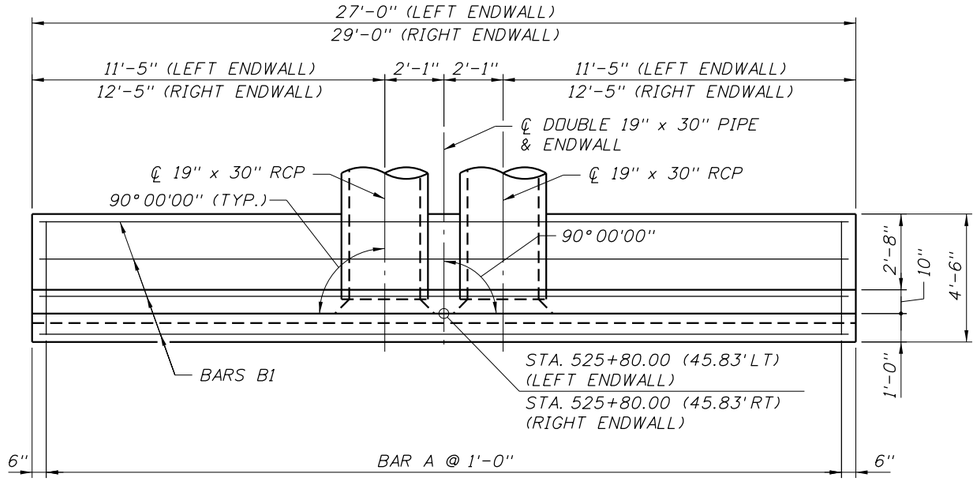
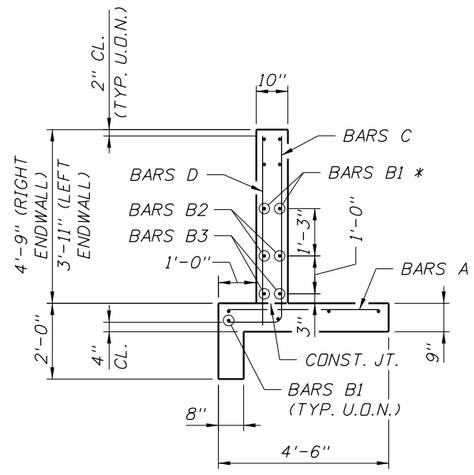
DRAINAGE DETAILS

SHEET NO. 58

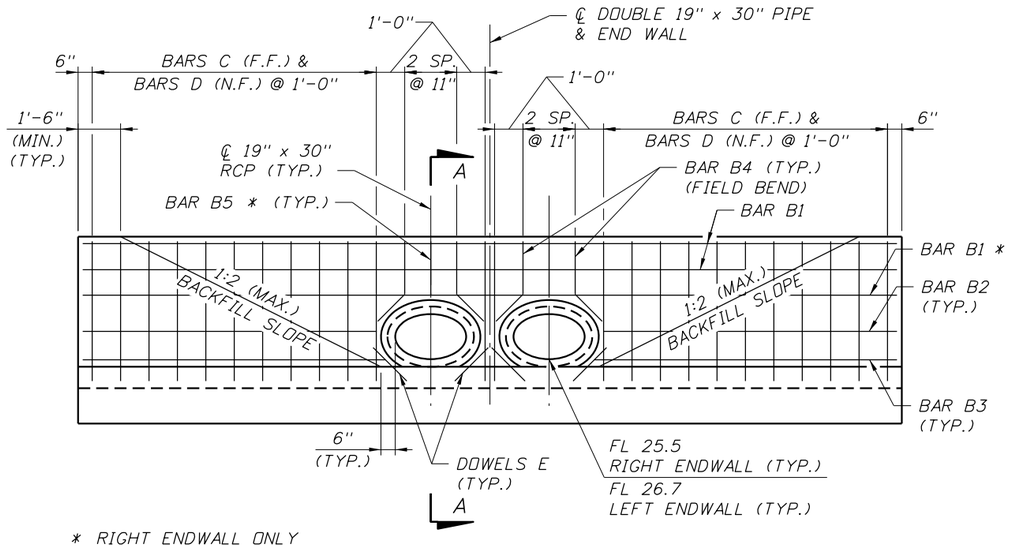


PLAN
(SHOWING BARS IN FOOTING)



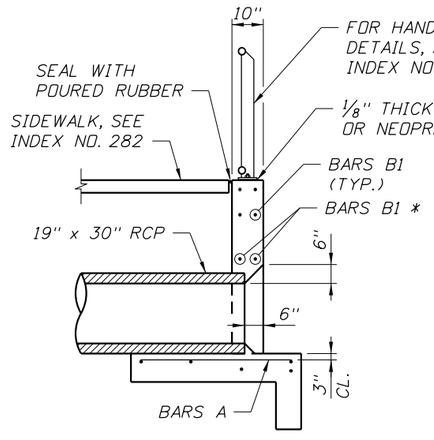
* RIGHT ENDWALL ONLY

TYPICAL SECTION THRU ENDWALL



* RIGHT ENDWALL ONLY

ELEVATION



* RIGHT ENDWALL ONLY

SECTION A-A

BILL OF REINFORCING STEEL

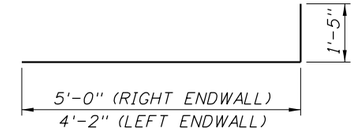
LEFT ENDWALL

MARK	SIZE	NO. REQ'D.	LENGTH	LOCATION	BENDING
A	#5	27	4'-0"	FOOTING	STRAIGHT
B1	#4	9	26'-8"	FOOTING & WALL	STRAIGHT
B2	#4	4	9'-4"	WALL	STRAIGHT
B3	#4	4	9'-7"	WALL	STRAIGHT
B4	#4	8	2'-7"	WALL	STRAIGHT ▲
C	#5	22	5'-7"	WALL	BEND
D	#4	22	4'-2"	WALL	STRAIGHT
E	#4	8	1'-8"	FOOTING & WALL	STRAIGHT

RIGHT ENDWALL

MARK	SIZE	NO. REQ'D.	LENGTH	LOCATION	BENDING
A	#5	29	4'-0"	FOOTING	STRAIGHT
B1	#4	11	28'-8"	FOOTING & WALL	STRAIGHT
B2	#4	4	10'-4"	WALL	STRAIGHT
B3	#4	4	10'-7"	WALL	STRAIGHT
B4	#4	8	3'-4"	WALL	STRAIGHT ▲
B5	#4	4	2'-0"	WALL	STRAIGHT
C	#5	24	6'-5"	WALL	BEND
D	#4	24	5'-0"	WALL	STRAIGHT
E	#4	8	1'-8"	FOOTING & WALL	STRAIGHT

BENDING DIAGRAM



BAR C

▲ FIELD BEND

NOTE: ALL BAR DIMENSIONS ARE OUT-TO-OUT.

NOTES:

1. FRONT SLOPE AND DITCH TRANSITIONS SHALL BE IN ACCORDANCE WITH INDEX NO. 280.
2. ENDWALLS MAY BE CAST IN PLACE OR PRECAST CONCRETE CAST IN PLACE CONCRETE SHALL BE CLASS IV PER STANDARD SPECIFICATIONS SECTION 346.
3. CONCRETE MEETING THE REQUIREMENTS OF ASTM C478 (4000 PSI) MAY BE USED IN LIEU OF CLASS IV CONCRETE IN PRECAST ITEMS MANUFACTORED IN PLANTS WHICH ARE UNDER THE STANDARD OPERATING PROCEDURES FOR THE INSPECTION OF PRECAST DRAINAGE PRODUCTS.
4. REINFORCING STEEL SHALL BE GRADE 60. ADDITIONAL REINFORCEMENT NECESSARY FOR HANDLING PRECAST UNITS SHALL BE DETERMINED BY THE CONTRACTOR OR THE SUPPLIER.
5. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO BE CHAMFERED ¾".
6. FOR SODDING AROUND ENDWALLS, SEE INDEX NO. 281.

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REVISIONS					
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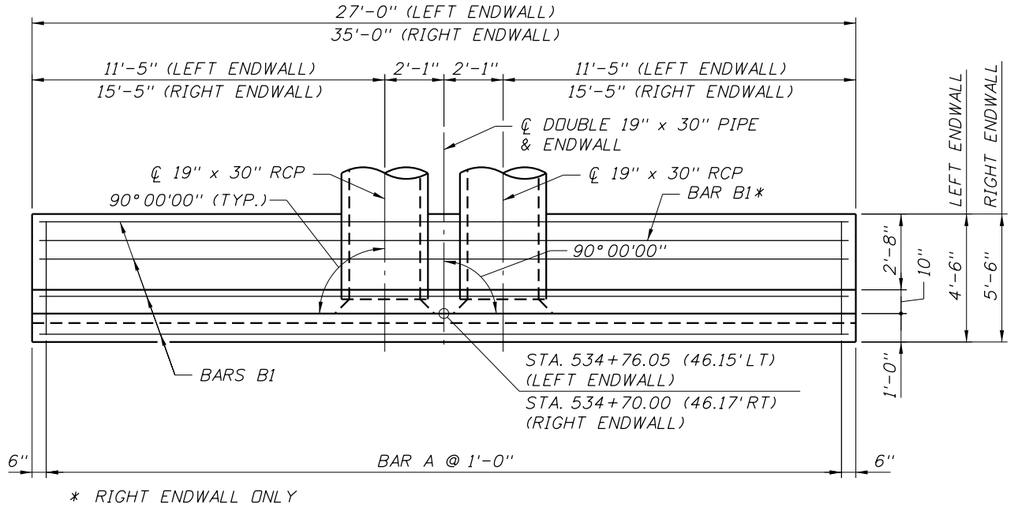
FORT MYERS, FLORIDA 33901

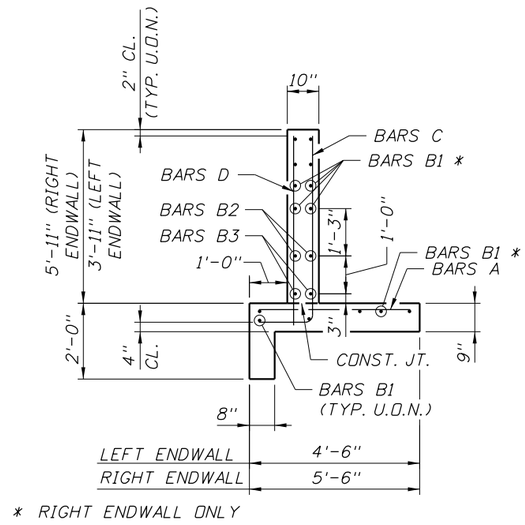
S-105 ENDWALLS

SHEET NO. 59

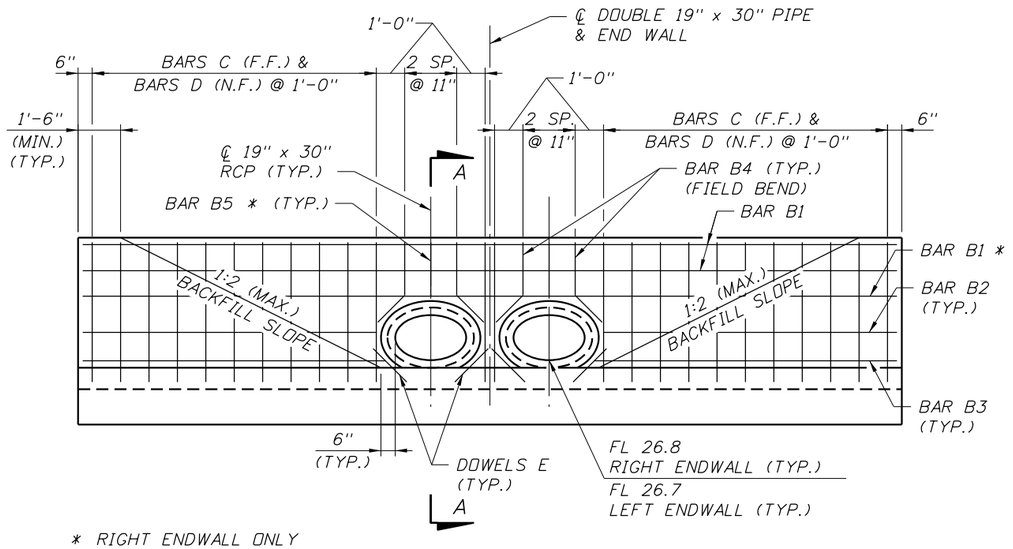
EGILBERT 9/19/2016 11:08:58 AM PW:\2021I6\0000000000053055\V3.00_CAD\Homestead\struct\BIMIscStr04.dgn



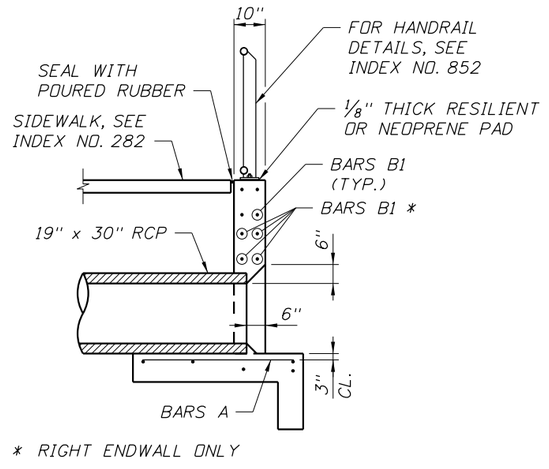
PLAN
(SHOWING BARS IN FOOTING)



TYPICAL SECTION THRU ENDWALL



ELEVATION



SECTION A-A

BILL OF REINFORCING STEEL

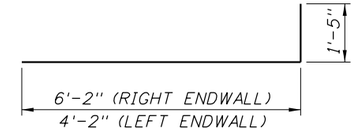
LEFT ENDWALL

MARK	SIZE	NO. REQ'D.	LENGTH	LOCATION	BENDING
A	#5	27	4'-0"	FOOTING	STRAIGHT
B1	#4	9	26'-8"	FOOTING & WALL	STRAIGHT
B2	#4	4	9'-4"	WALL	STRAIGHT
B3	#4	4	9'-7"	WALL	STRAIGHT
B4	#4	8	2'-7"	WALL	STRAIGHT ▲
C	#5	22	5'-7"	WALL	BEND
D	#4	22	4'-2"	WALL	STRAIGHT
E	#4	8	1'-8"	FOOTING & WALL	STRAIGHT

RIGHT ENDWALL

MARK	SIZE	NO. REQ'D.	LENGTH	LOCATION	BENDING
A	#6	35	5'-0"	FOOTING	STRAIGHT
B1	#4	14	34'-8"	FOOTING & WALL	STRAIGHT
B2	#4	4	13'-4"	WALL	STRAIGHT
B3	#4	4	13'-7"	WALL	STRAIGHT
B4	#4	8	4'-5"	WALL	STRAIGHT ▲
B5	#4	4	3'-2"	WALL	STRAIGHT
C	#5	30	7'-7"	WALL	BEND
D	#4	30	6'-2"	WALL	STRAIGHT
E	#4	8	1'-8"	FOOTING & WALL	STRAIGHT

BENDING DIAGRAM



BAR C

▲ FIELD BEND

NOTE: ALL BAR DIMENSIONS ARE OUT-TO-OUT.

NOTE:

FOR NOTES, SEE S-105 ENDWALLS

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S-114A ENDWALLS

SHEET NO. 60

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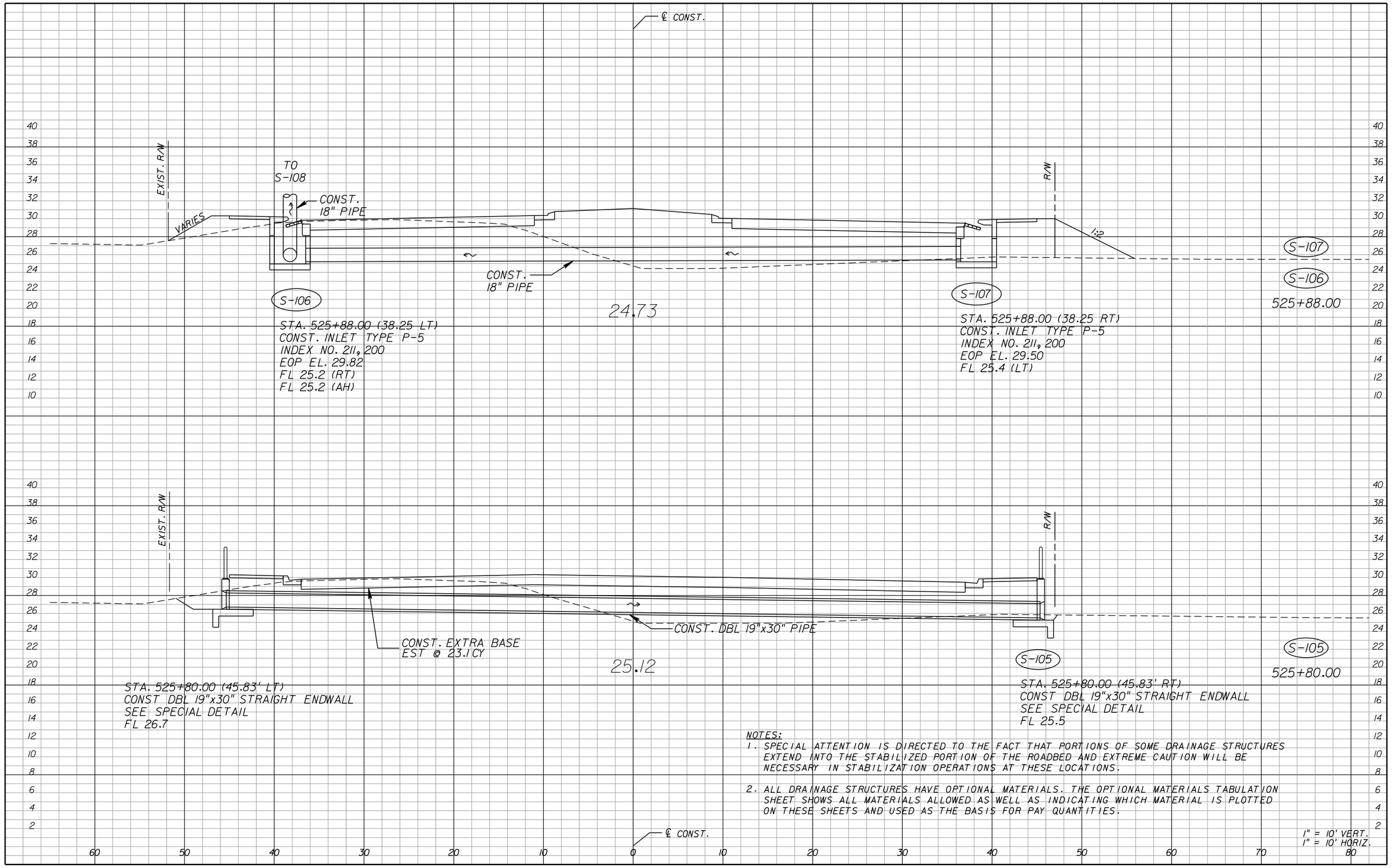

NOTES:

1. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
2. ALL DRAINAGE STRUCTURES HAVE OPTIONAL MATERIALS. THE OPTIONAL MATERIALS TABULATION SHEET SHOWS ALL MATERIALS ALLOWED AS WELL AS INDICATING WHICH MATERIAL IS PLOTTED ON THESE SHEETS AND USED AS THE BASIS FOR PAY QUANTITIES.

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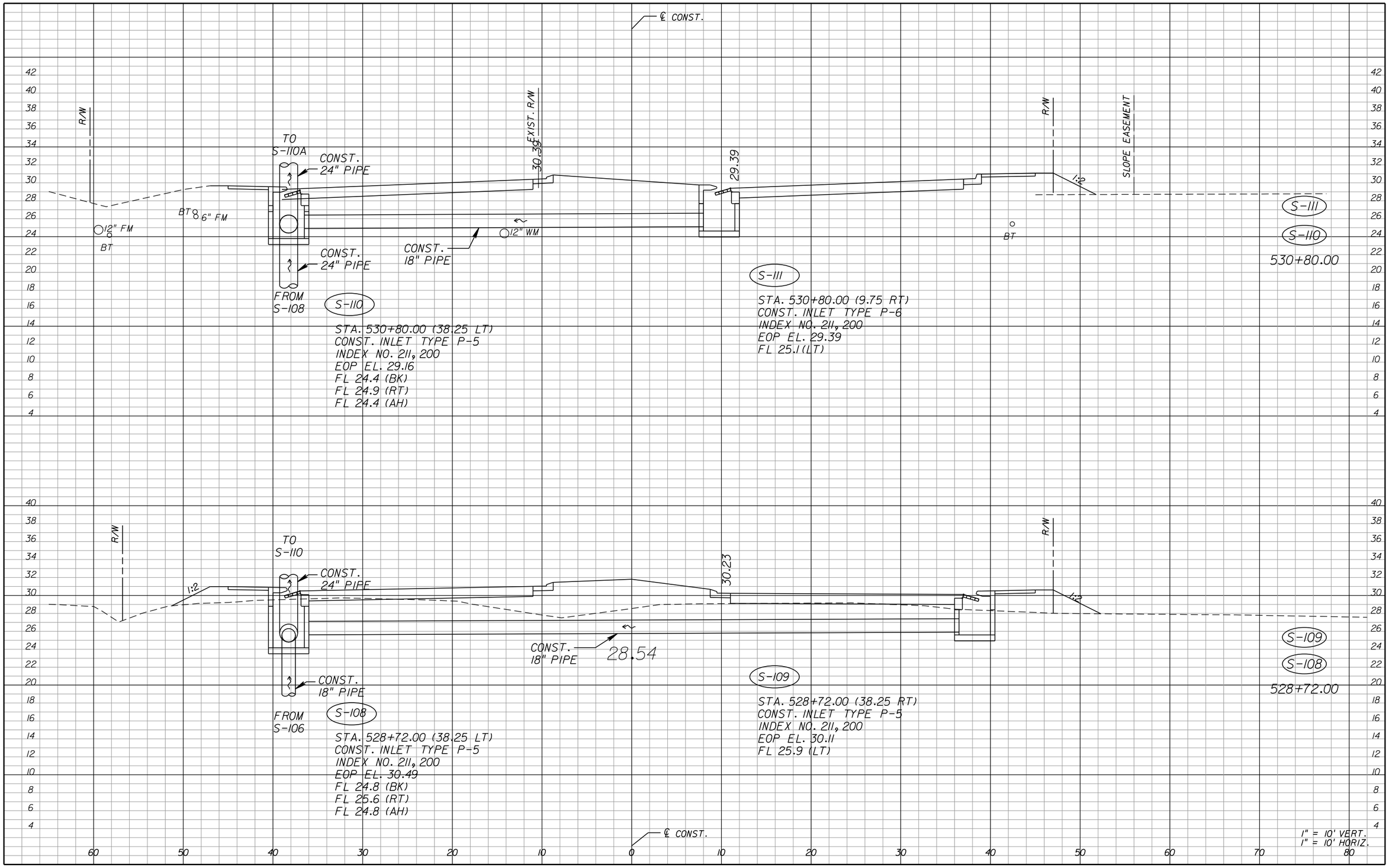
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 61



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DRAINAGE STRUCTURES HOMESTEAD ROAD

SHEET NO. 62

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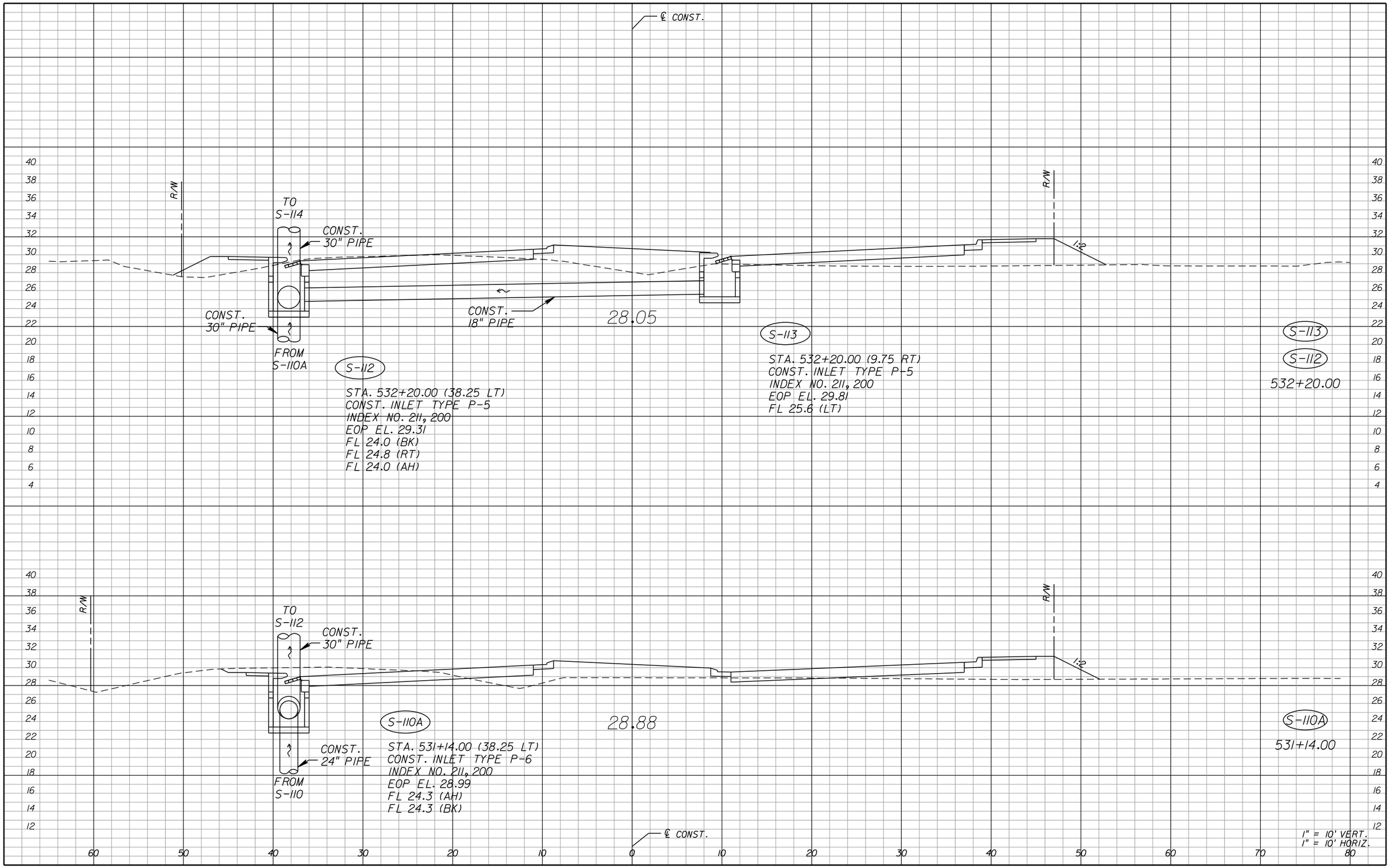

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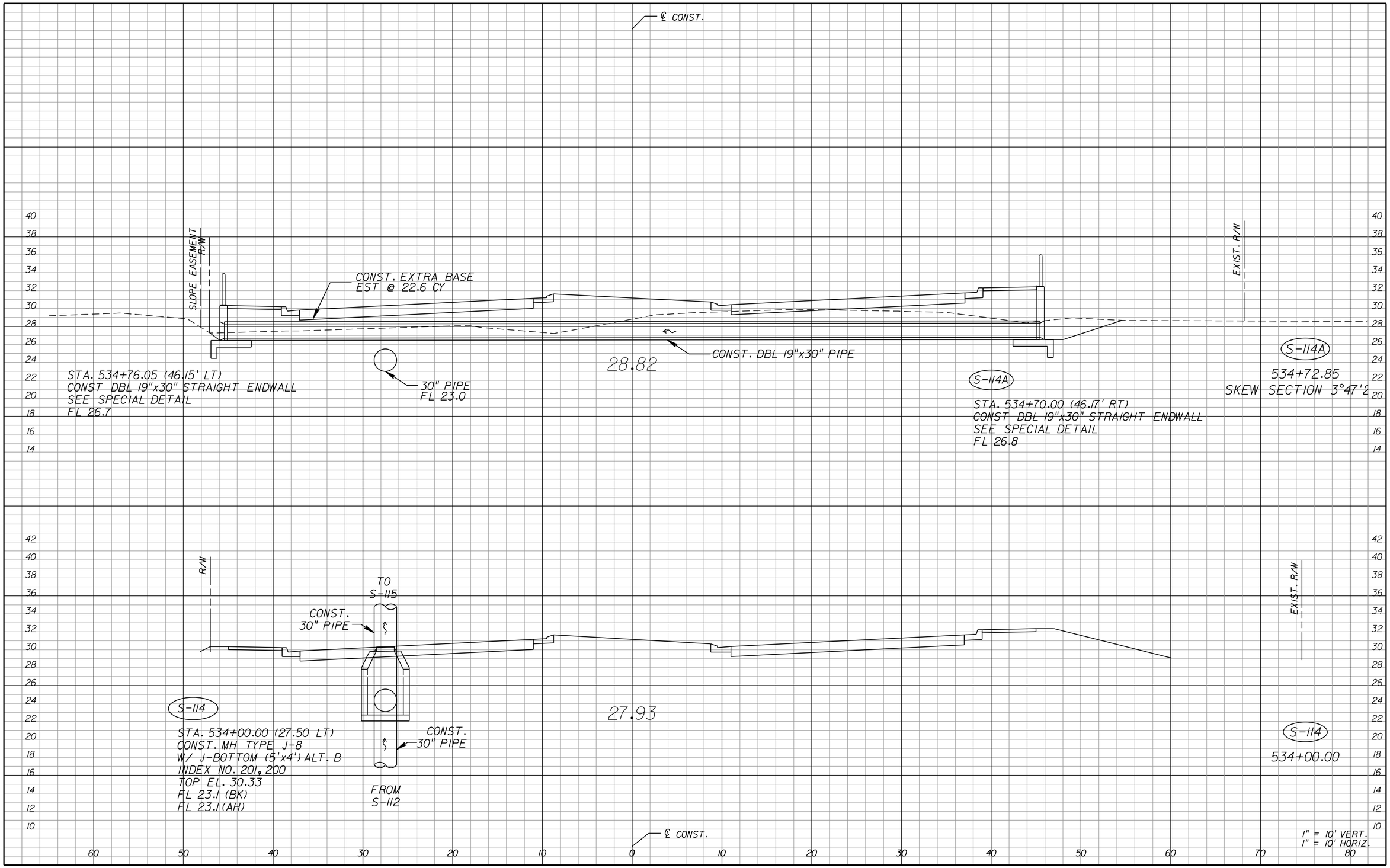
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
63



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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 64

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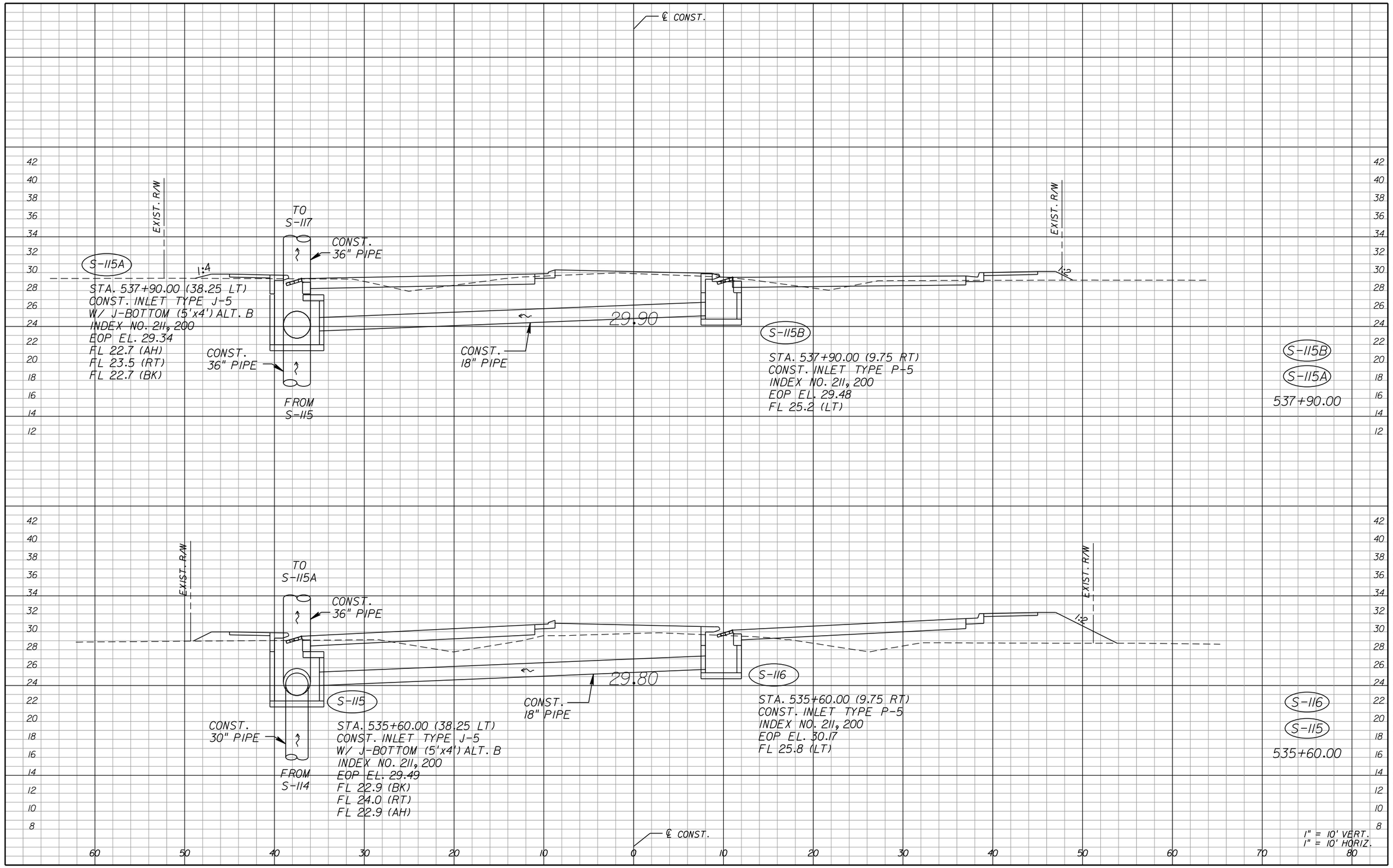

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 65

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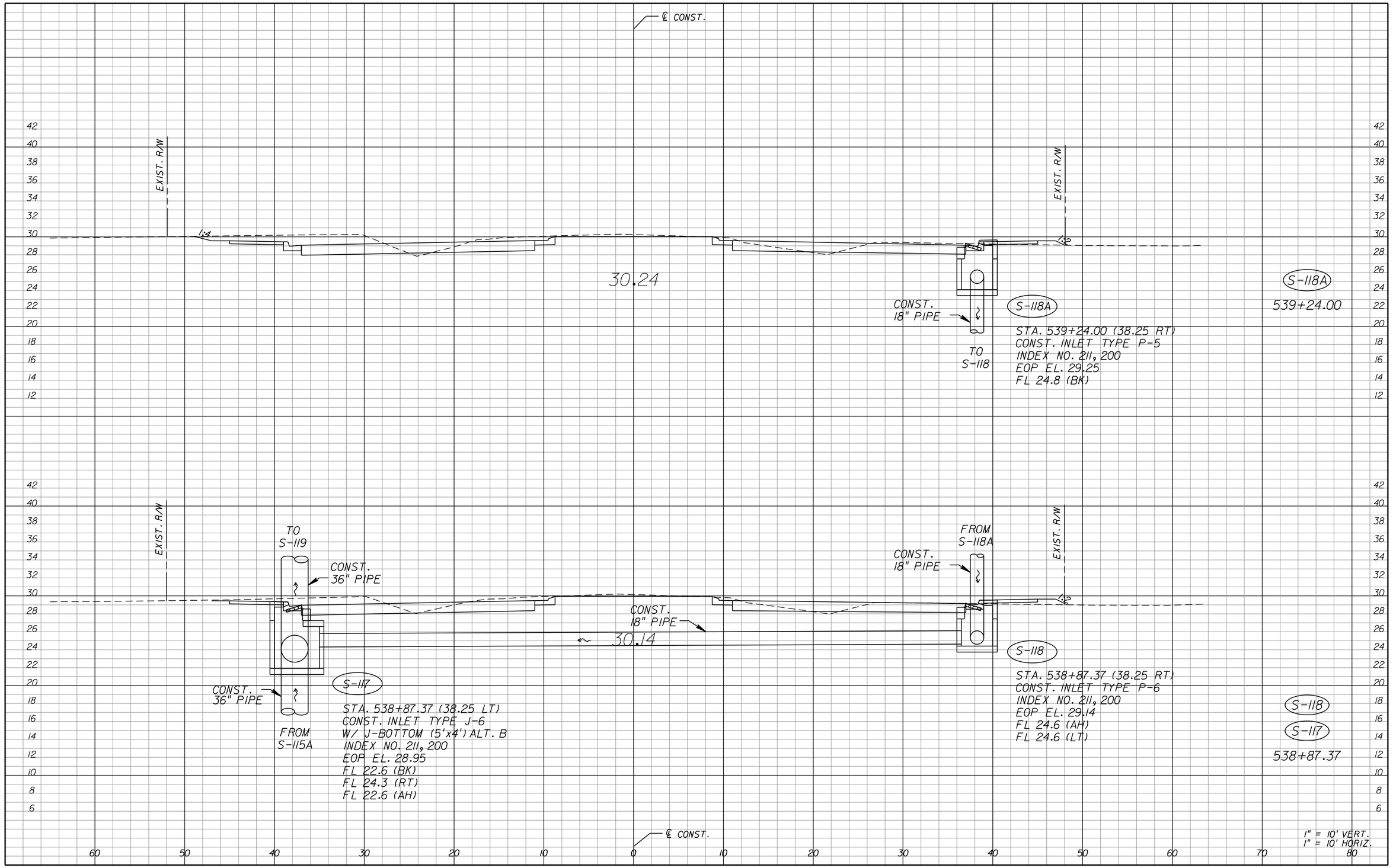

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 66

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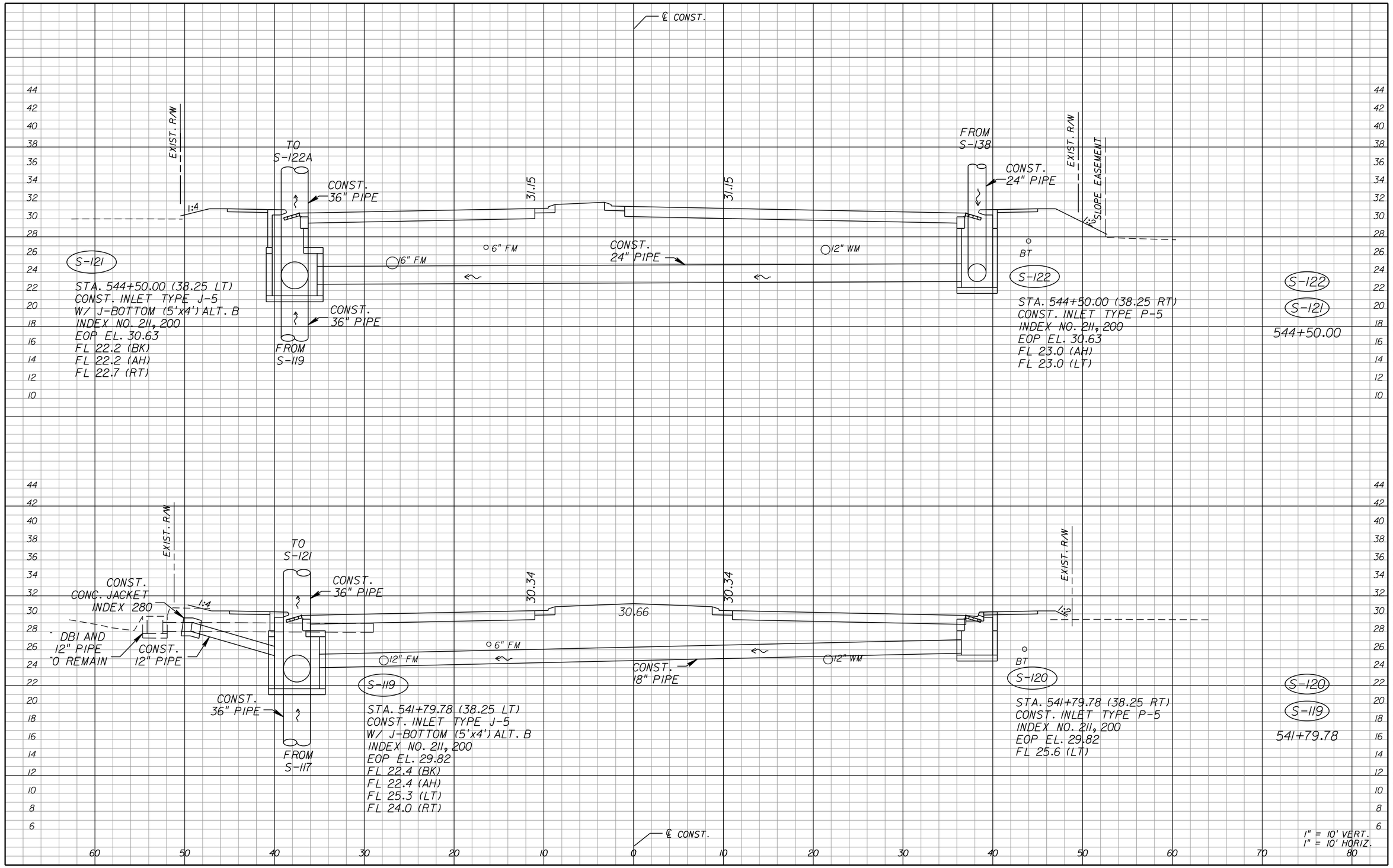

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 67

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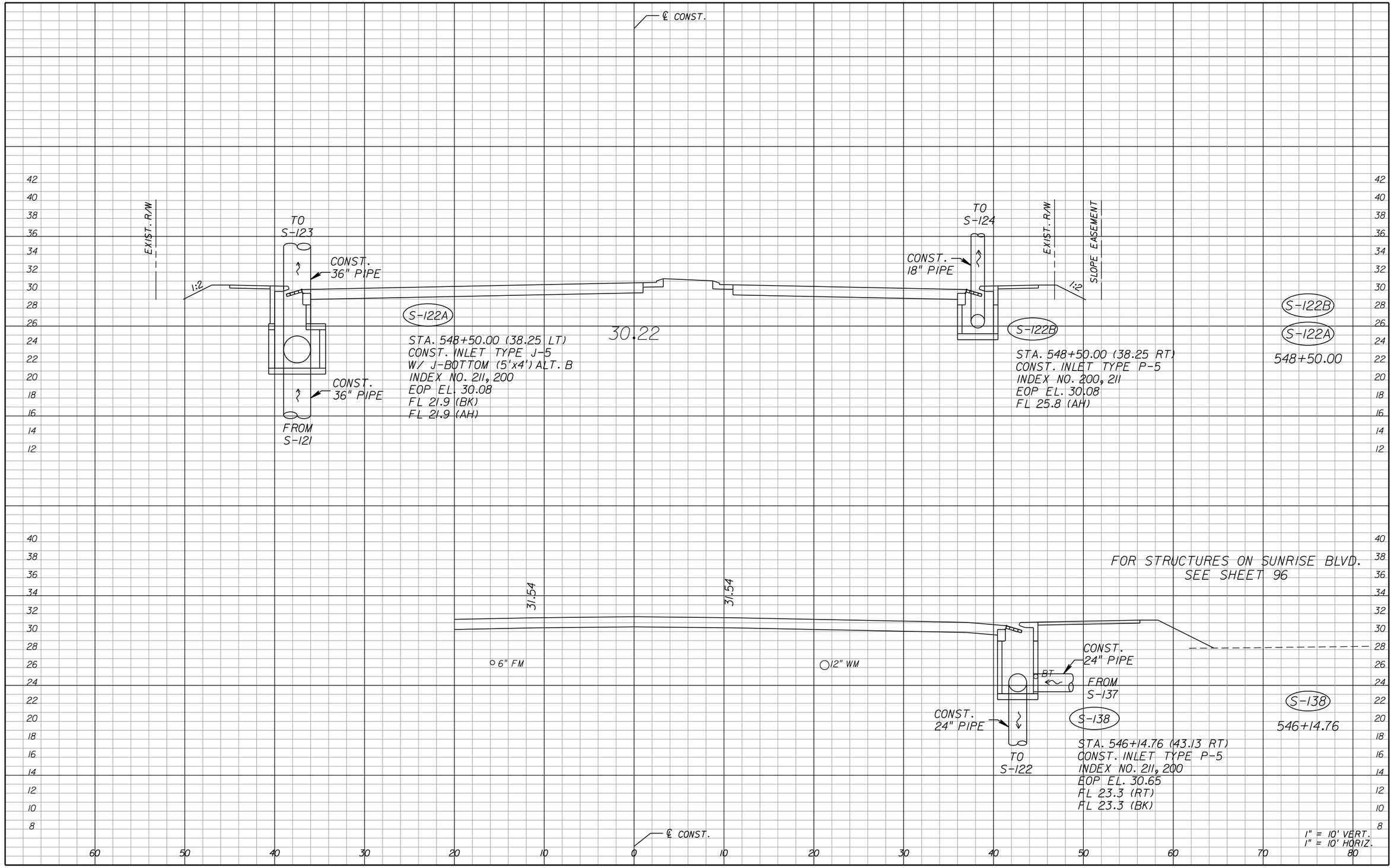

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 68

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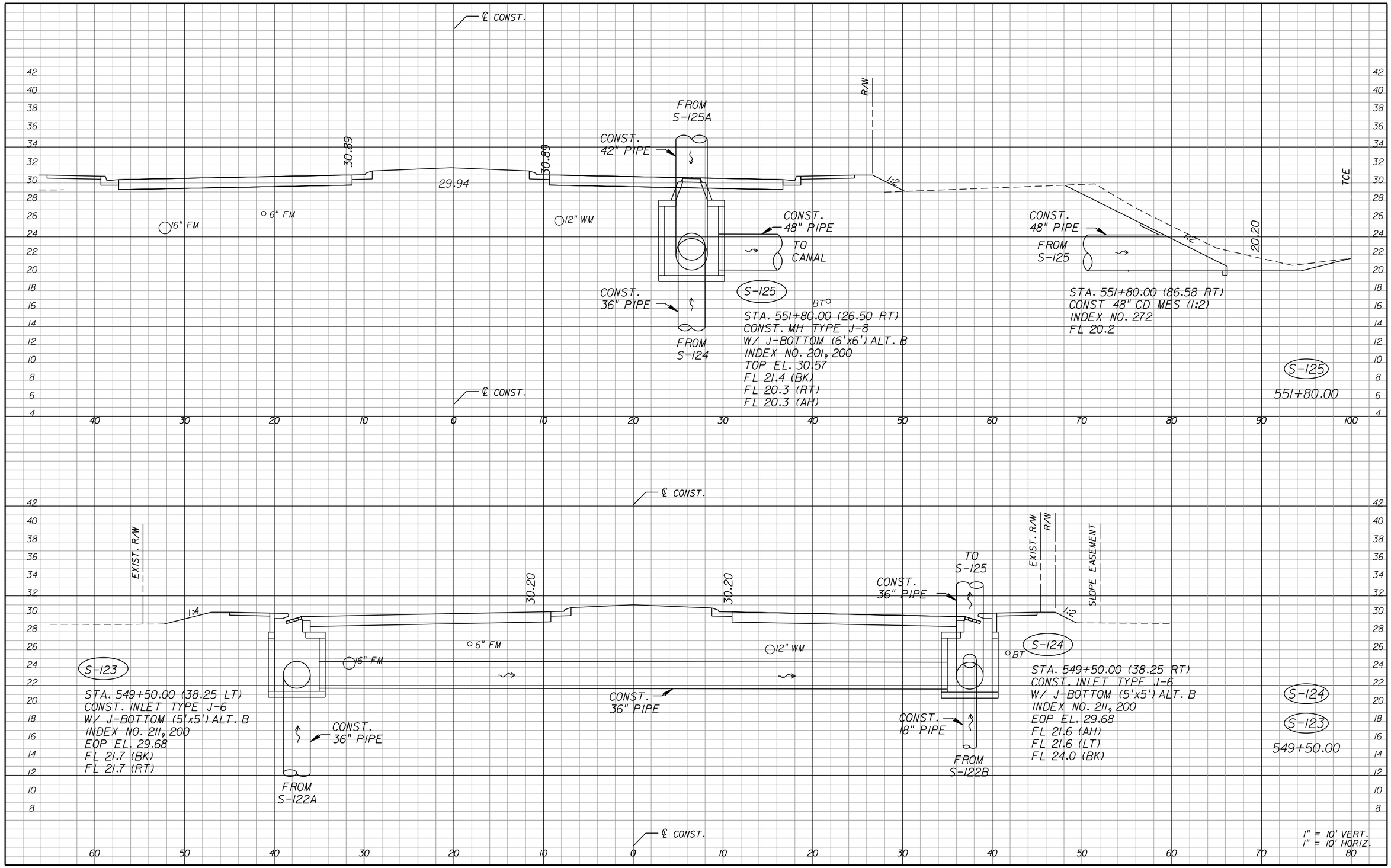

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
69

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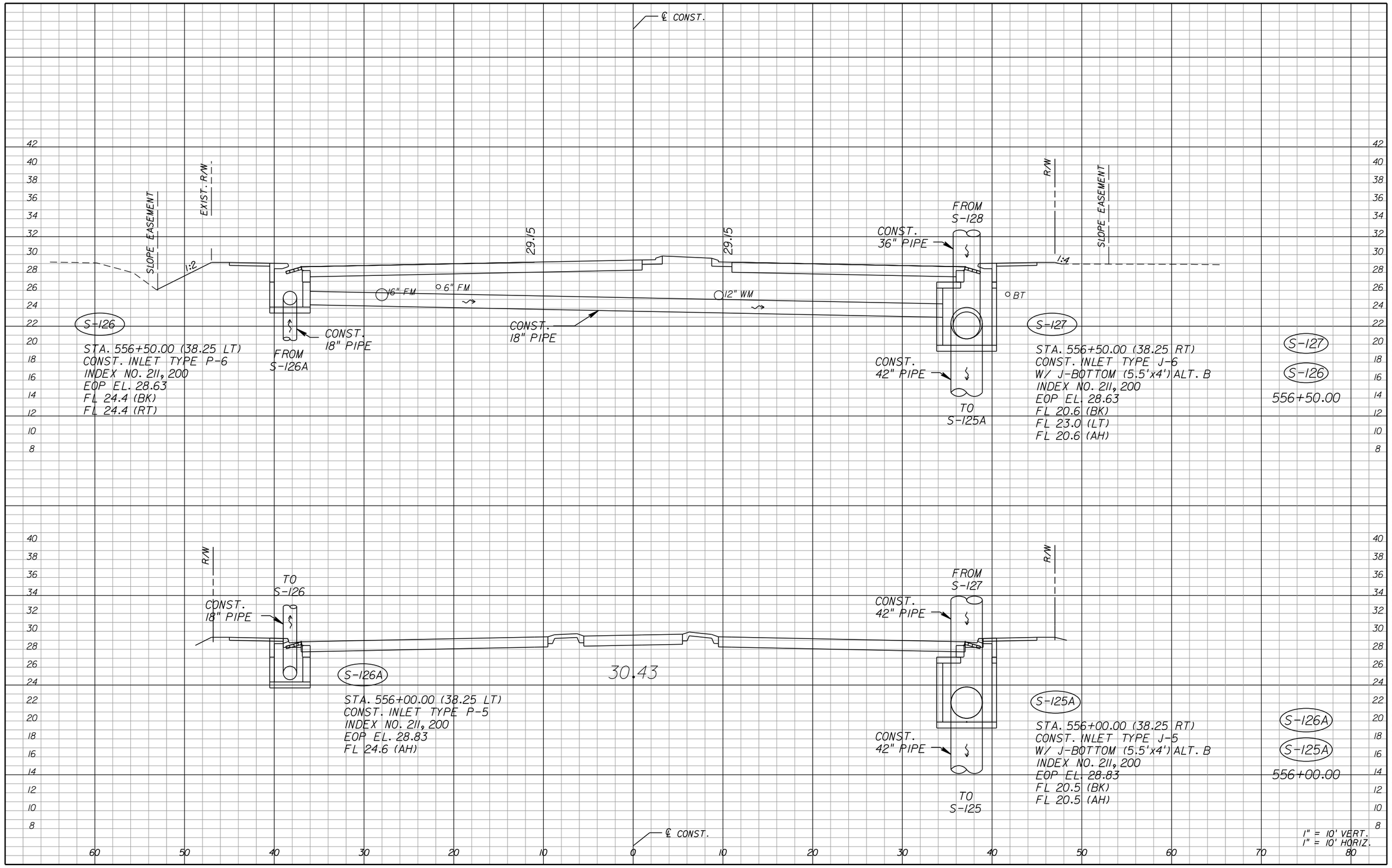

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 70

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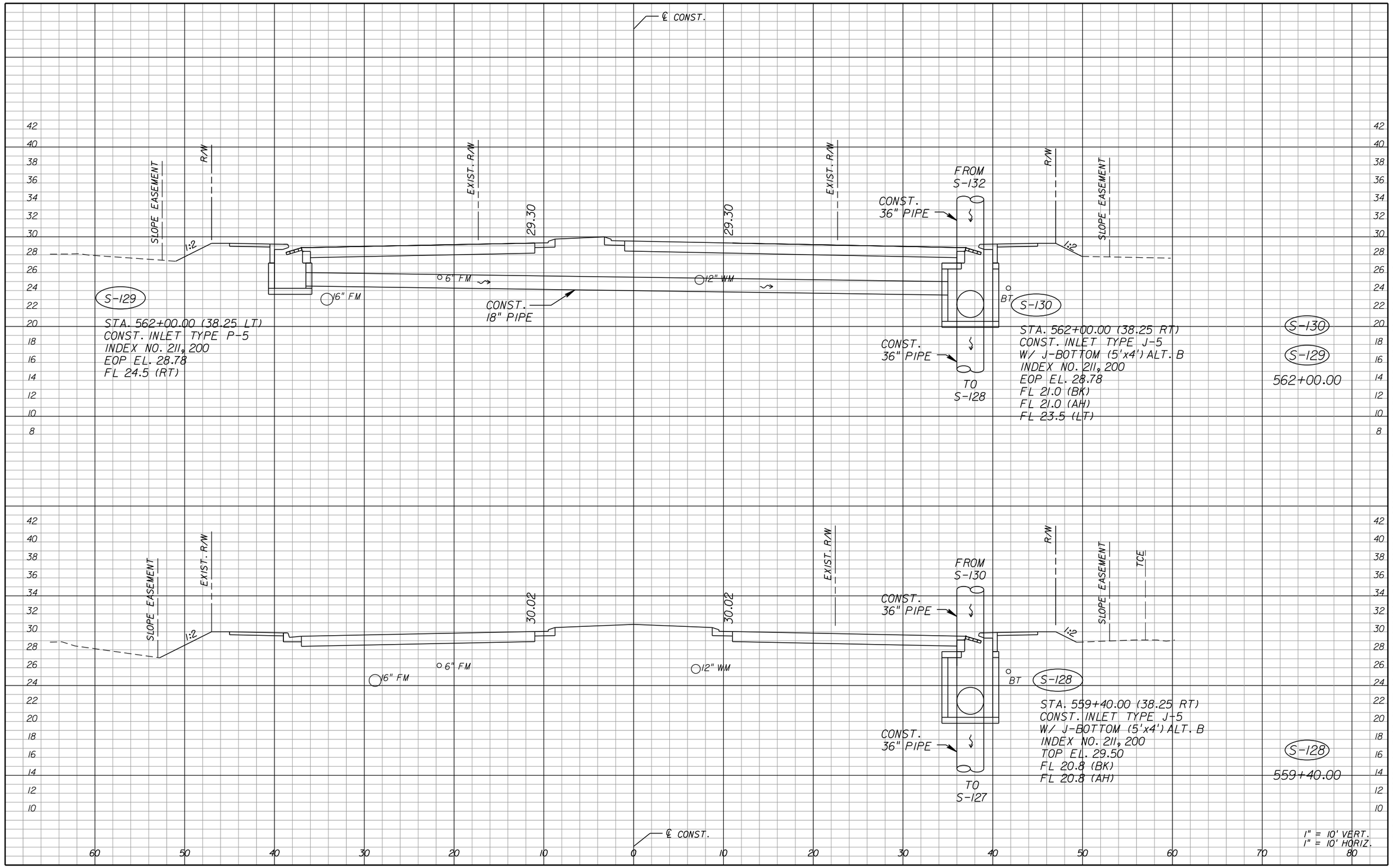

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ASTEVANU

DRAINAGE STRUCTURES HOMESTEAD ROAD

SHEET NO. 71

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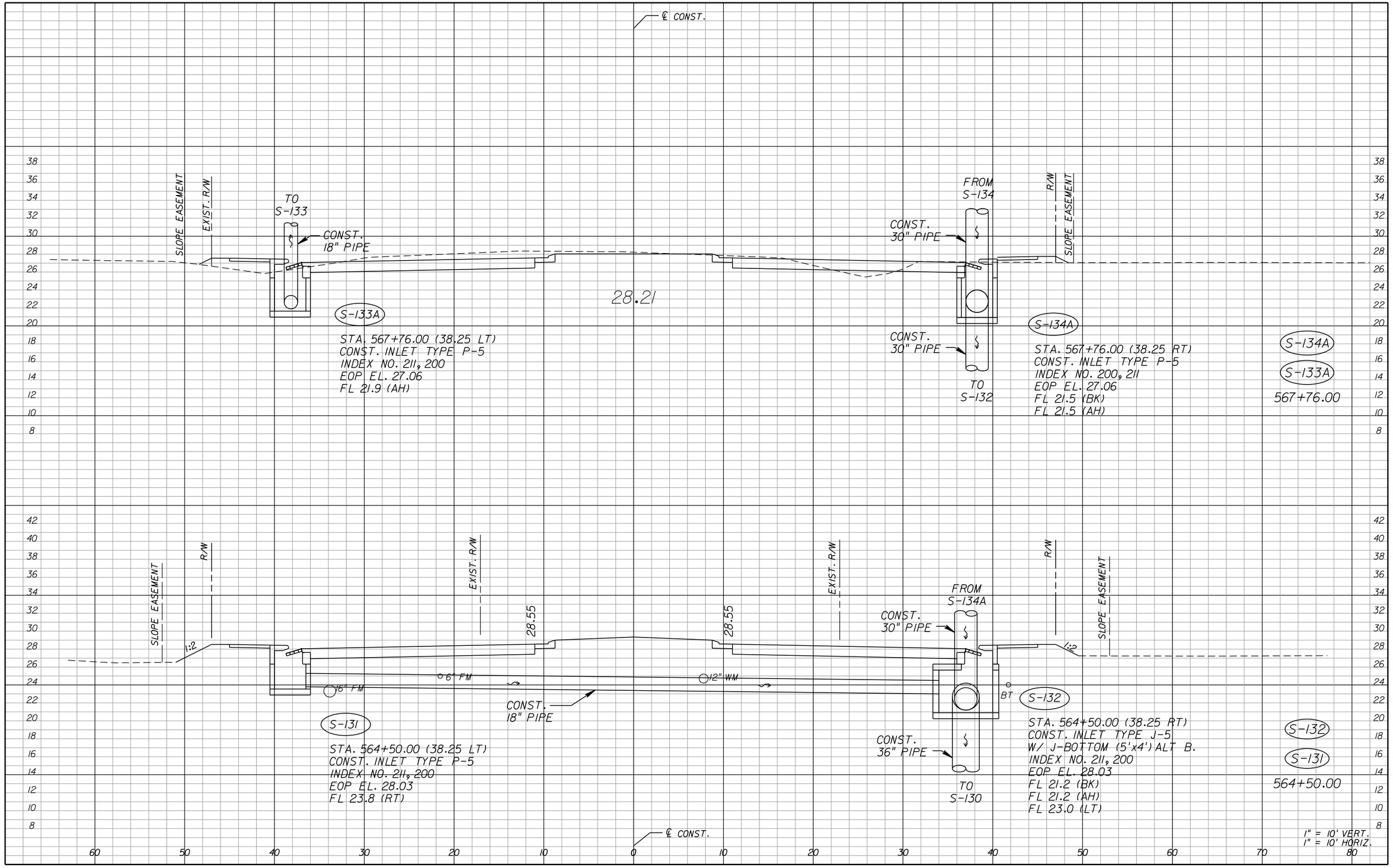

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ASTEVANU

DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 72

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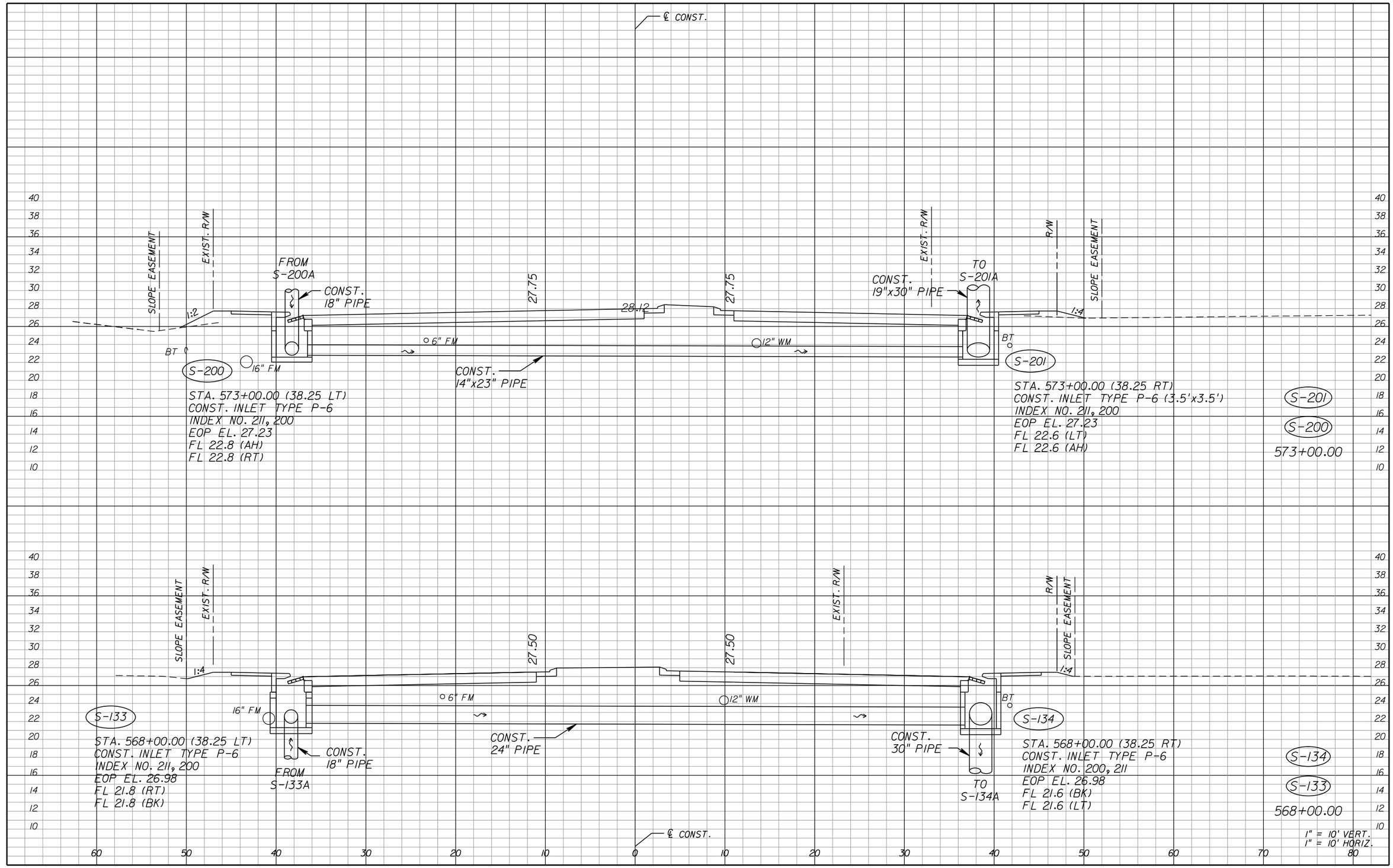

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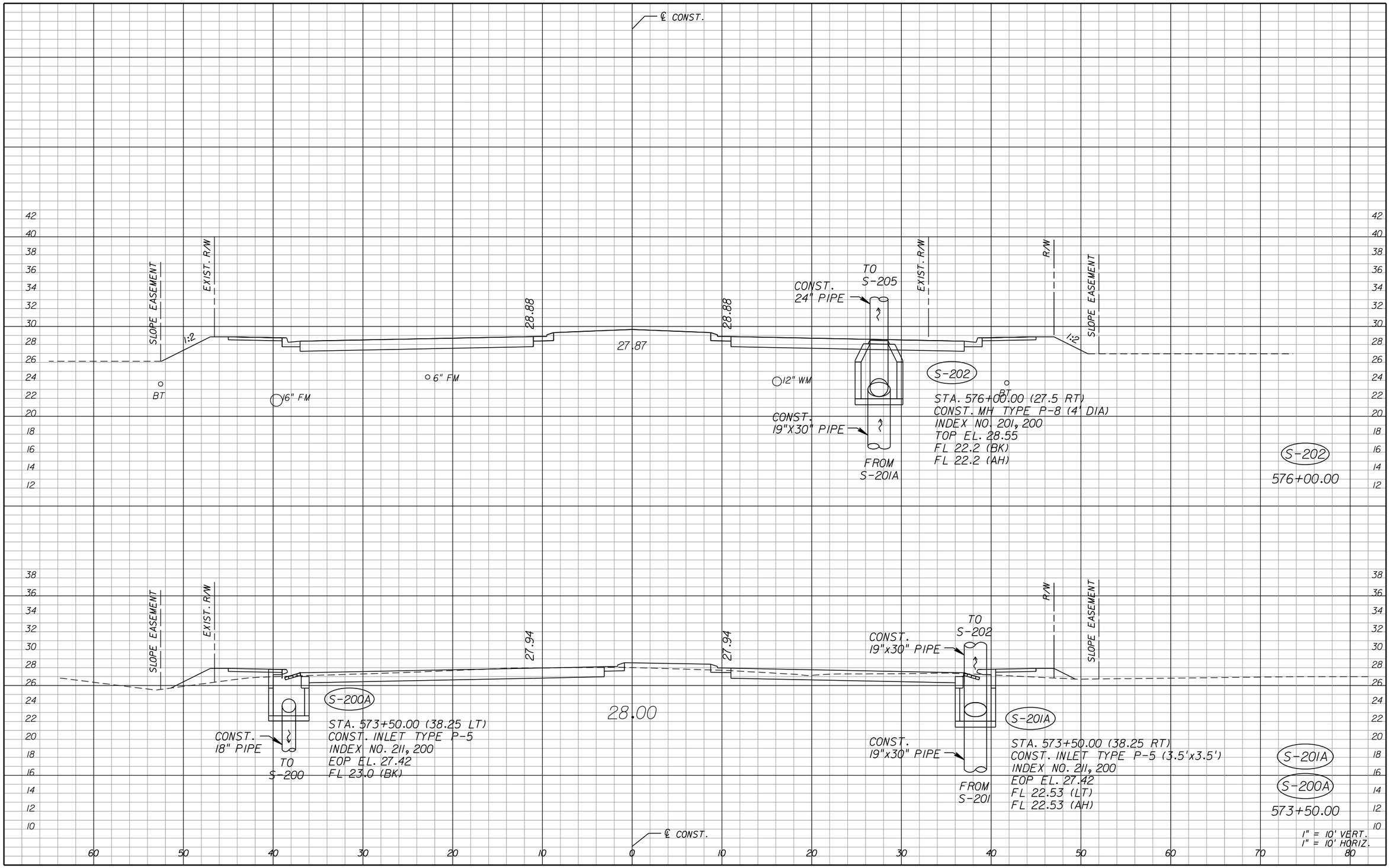
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 73

9/19/2016 12:18:22 PM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\drainage\drxsrd0I.dgn



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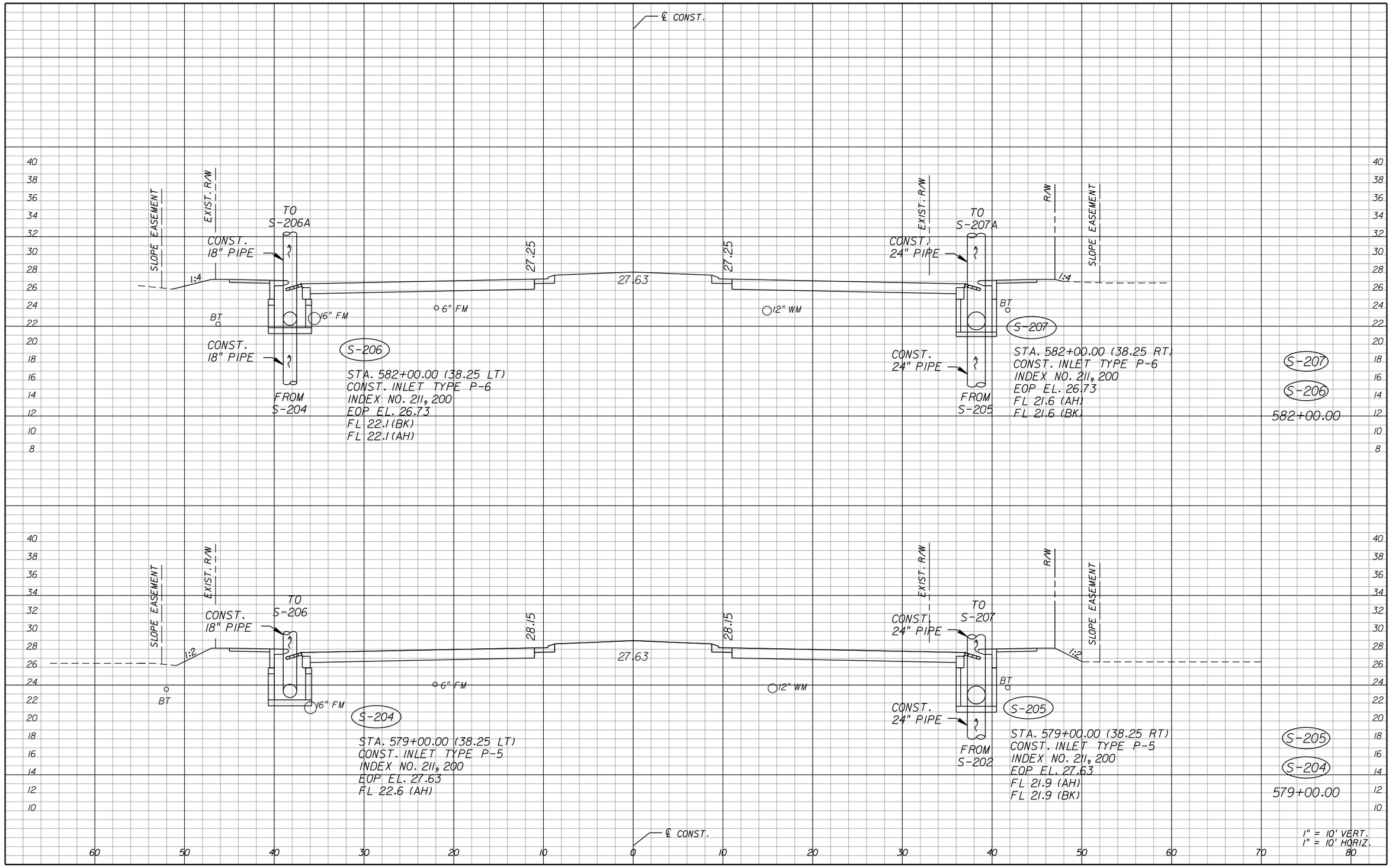
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 74

9/19/2016 12:18:22 PM PW:\2021\6\0000000053055\V3.00_CAD\Homestead\drainage\drxsrd01.dgn



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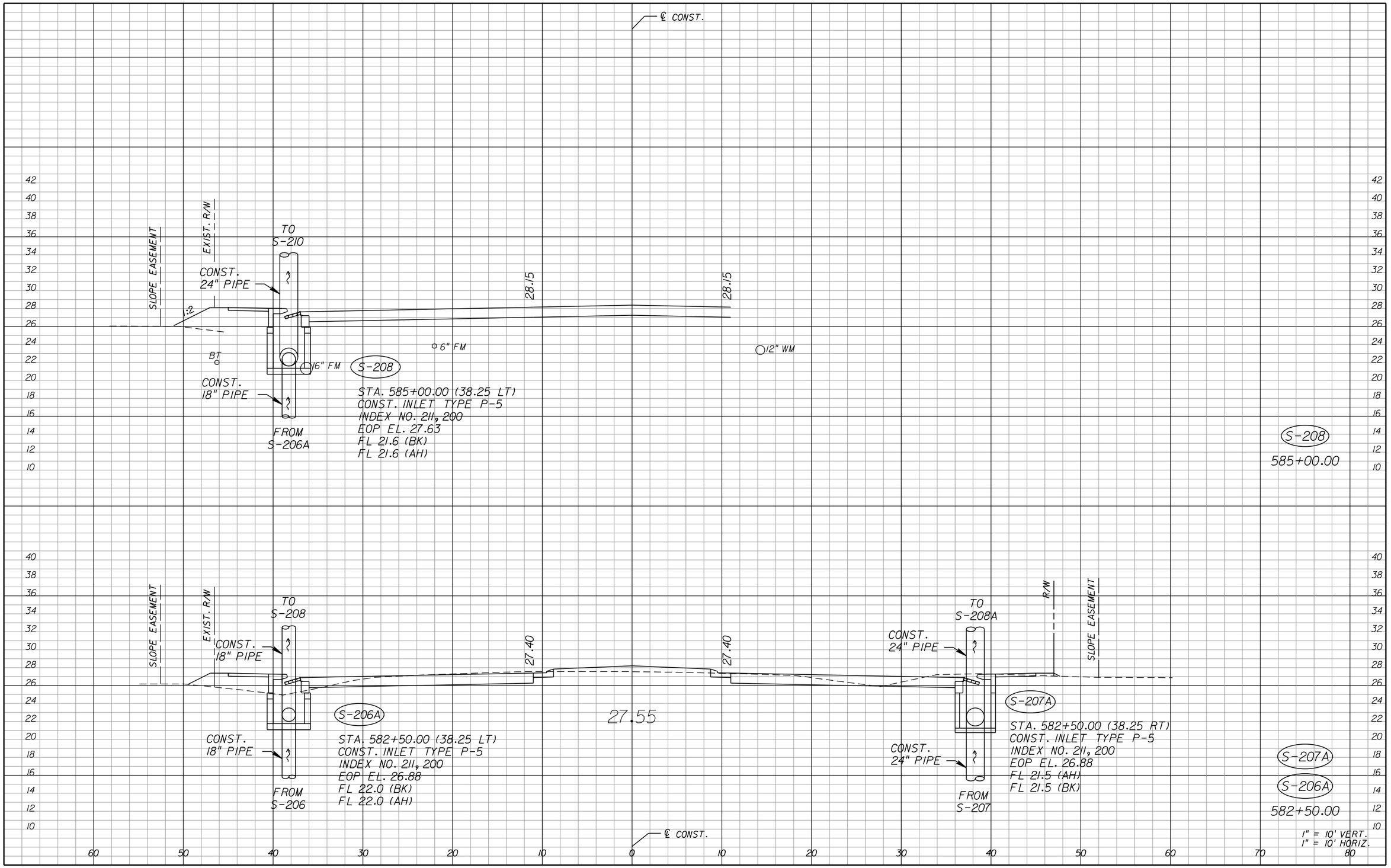
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 75

9/19/2016 12:18:23 PM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\drainage\drxsrd01.dgn



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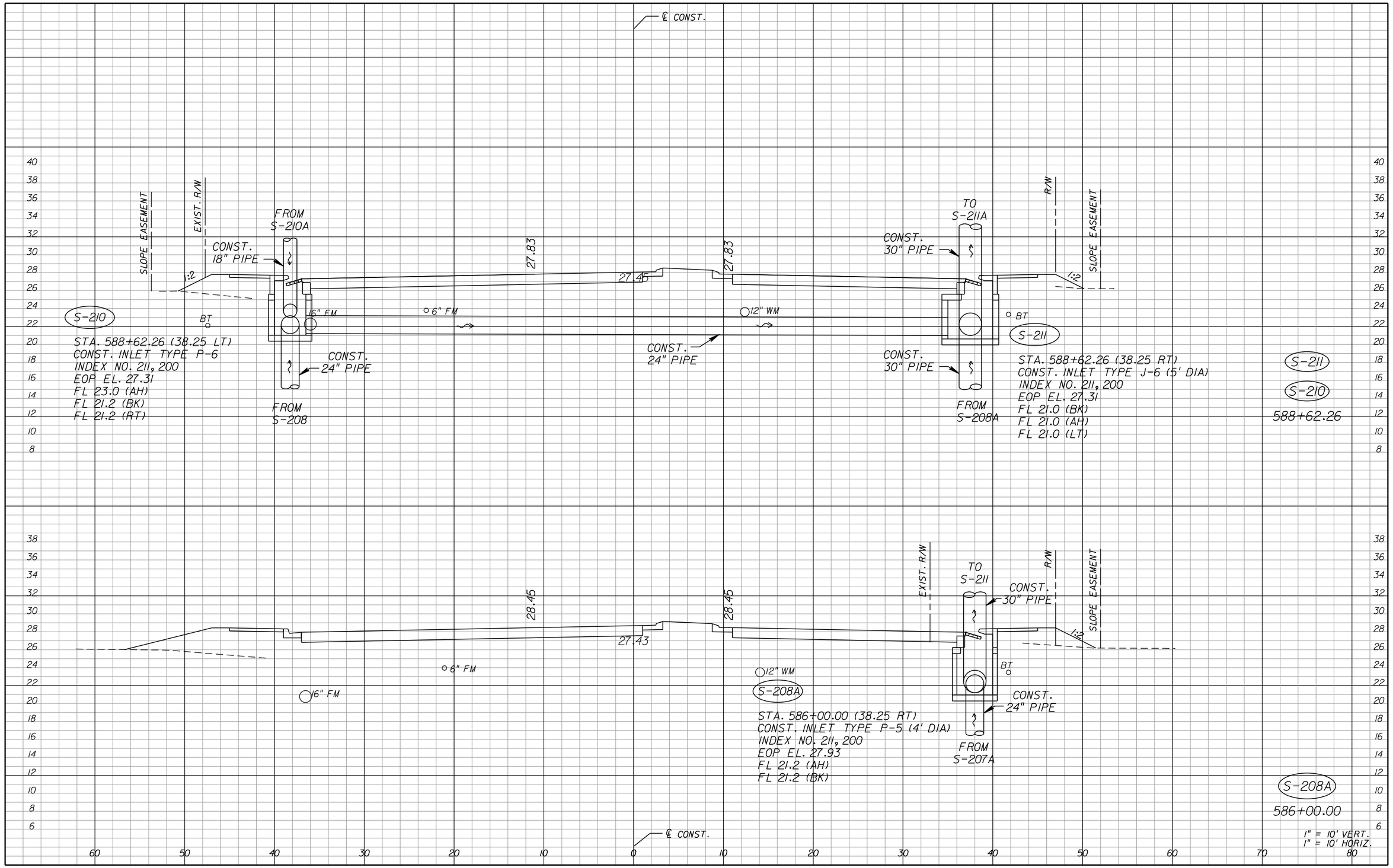
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 76



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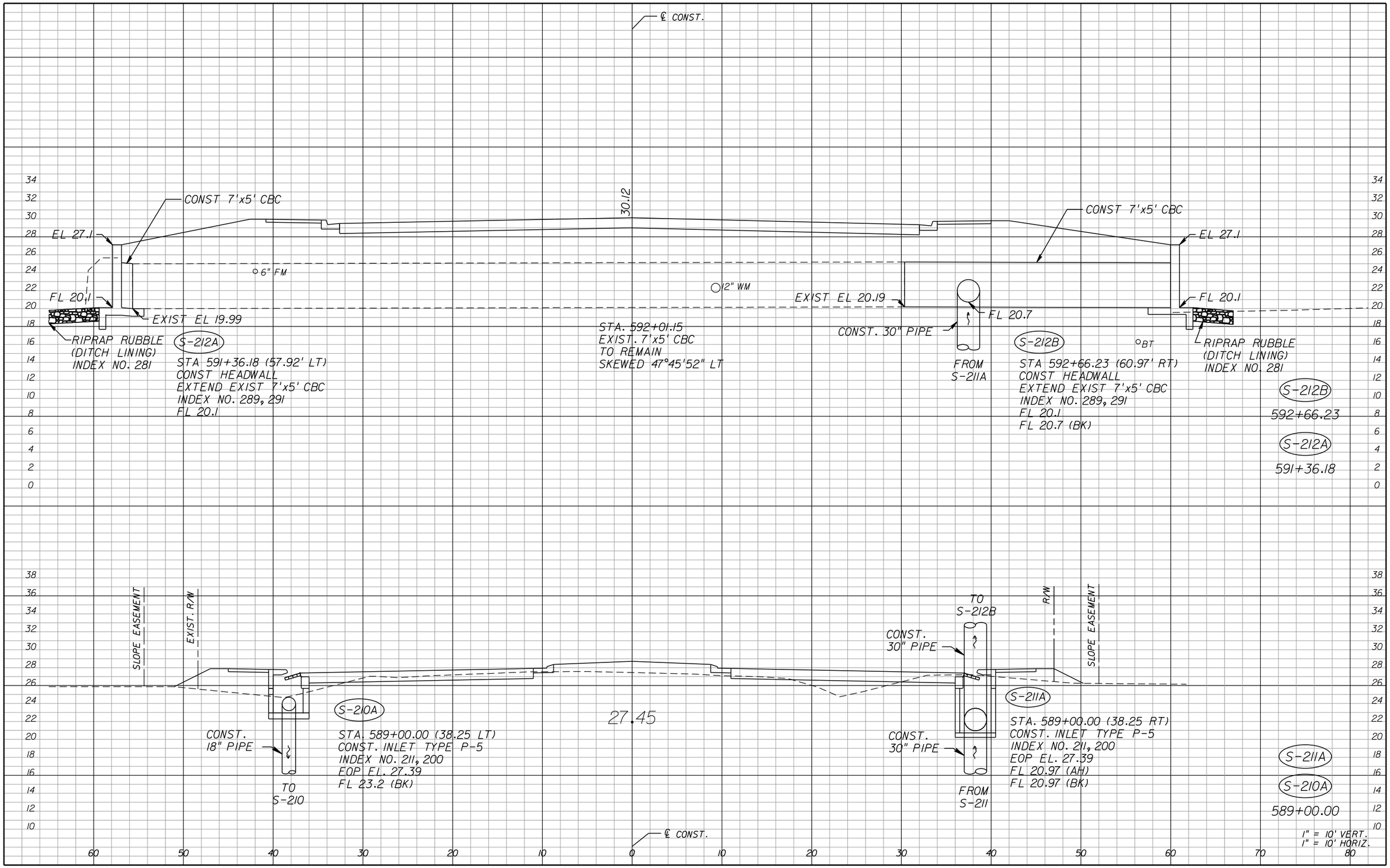
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
77

9/19/2016 12:18:25 PM PW:\2021\6\00000000053055\3.00_CAD\Homestead\drainage\drxsrd01.dgn



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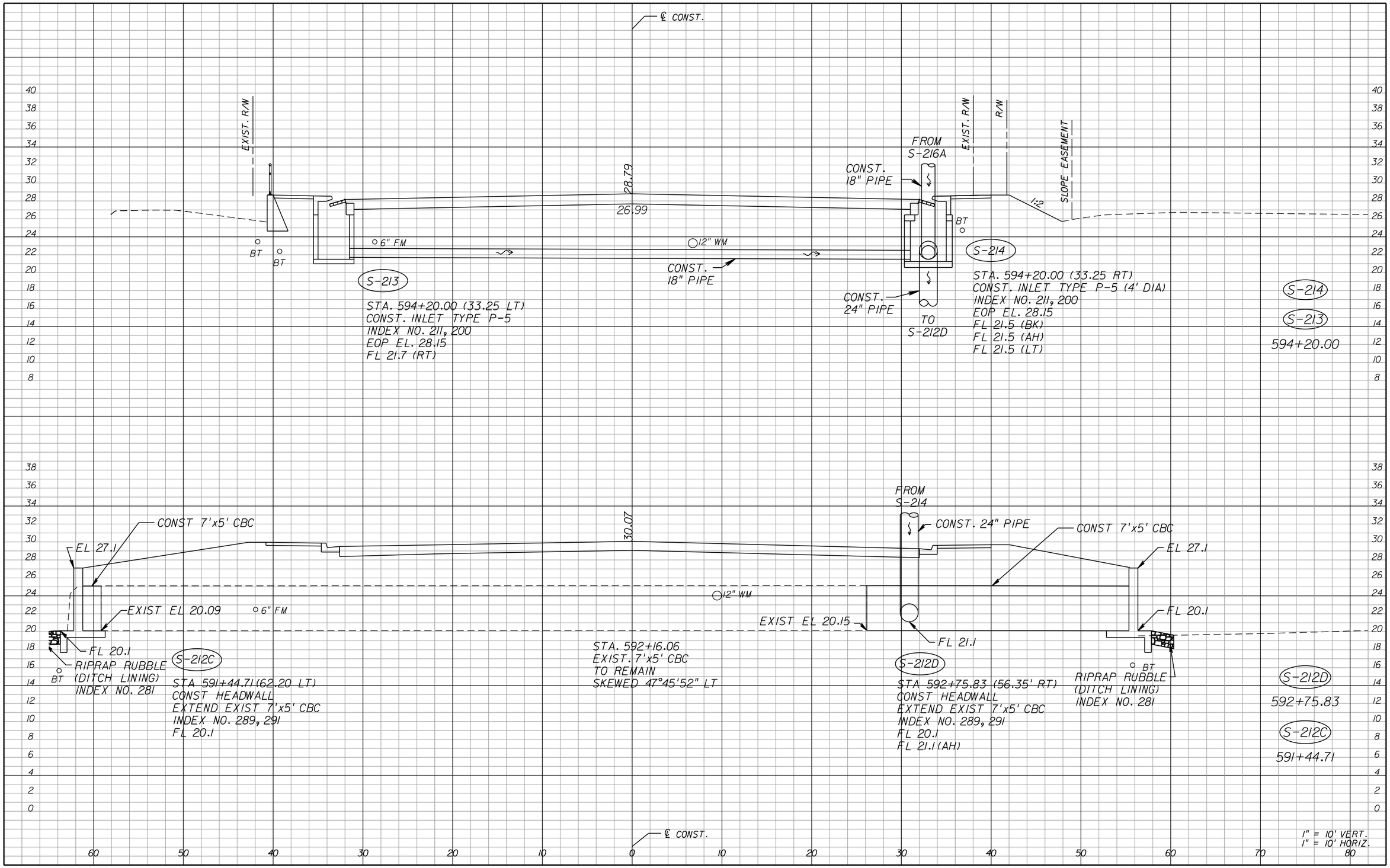
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 78



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DRAINAGE STRUCTURES HOMESTEAD ROAD

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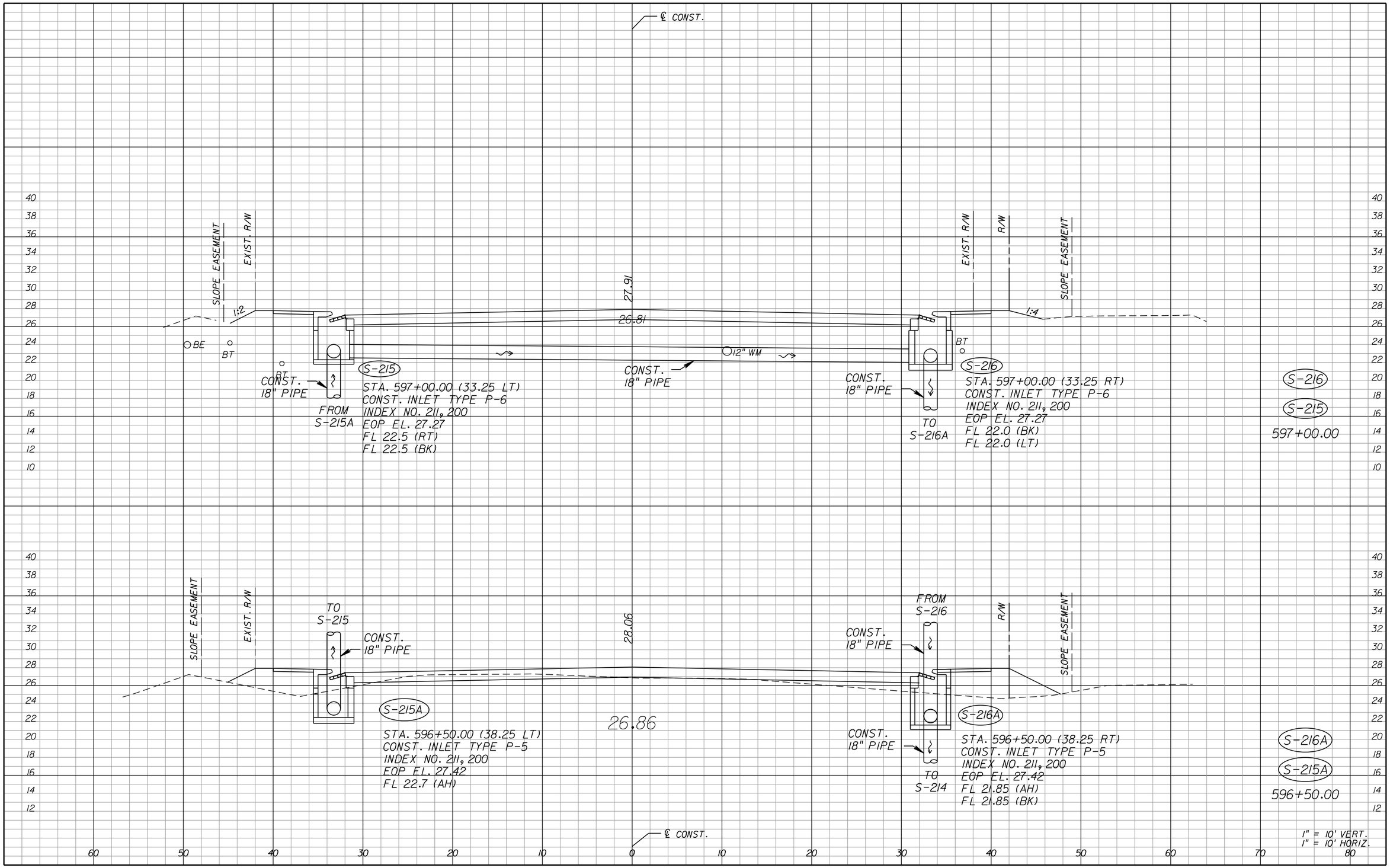
9/19/2016 12:18:27 PM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\drainage\drxsrd01.dgn



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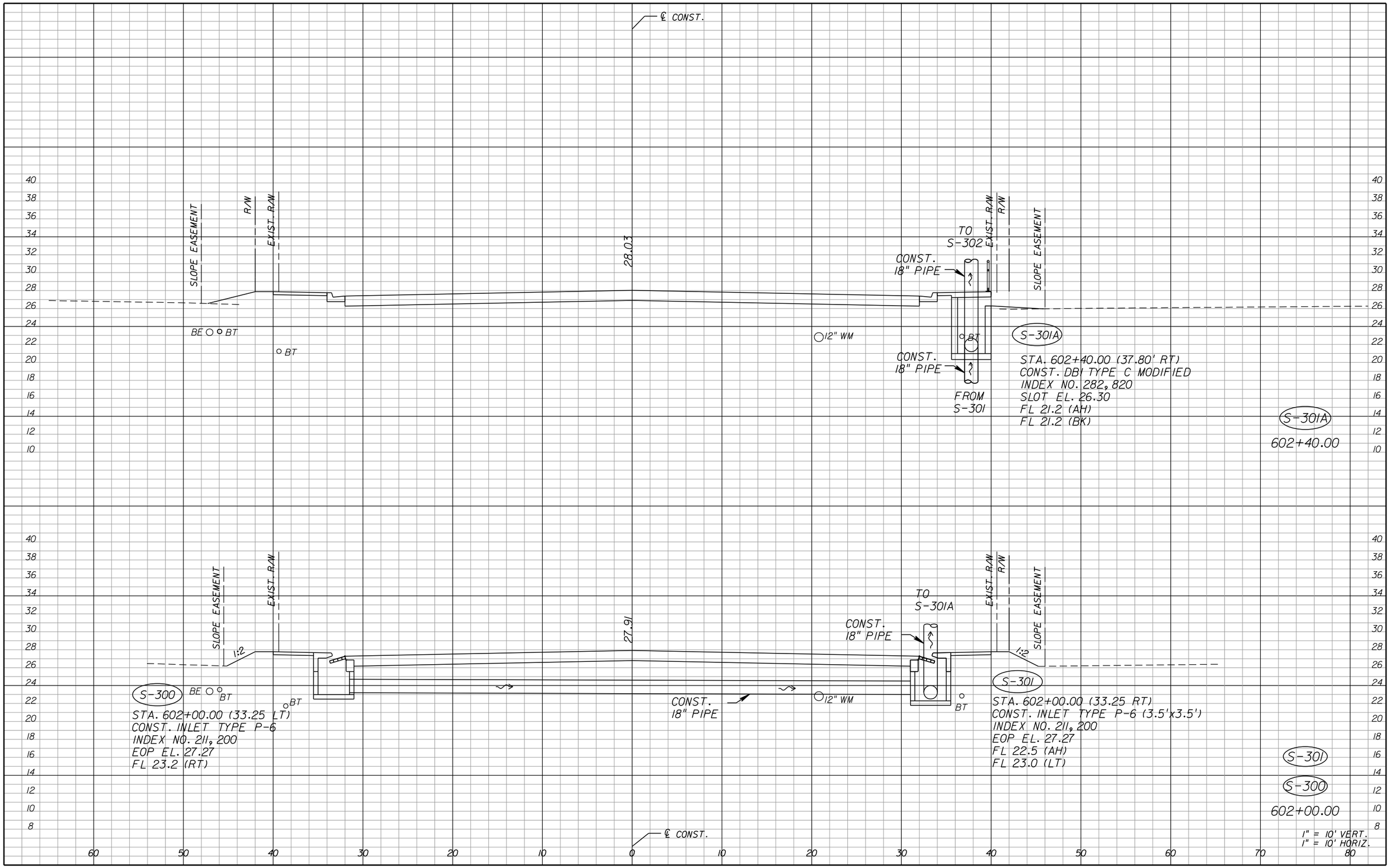
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 80



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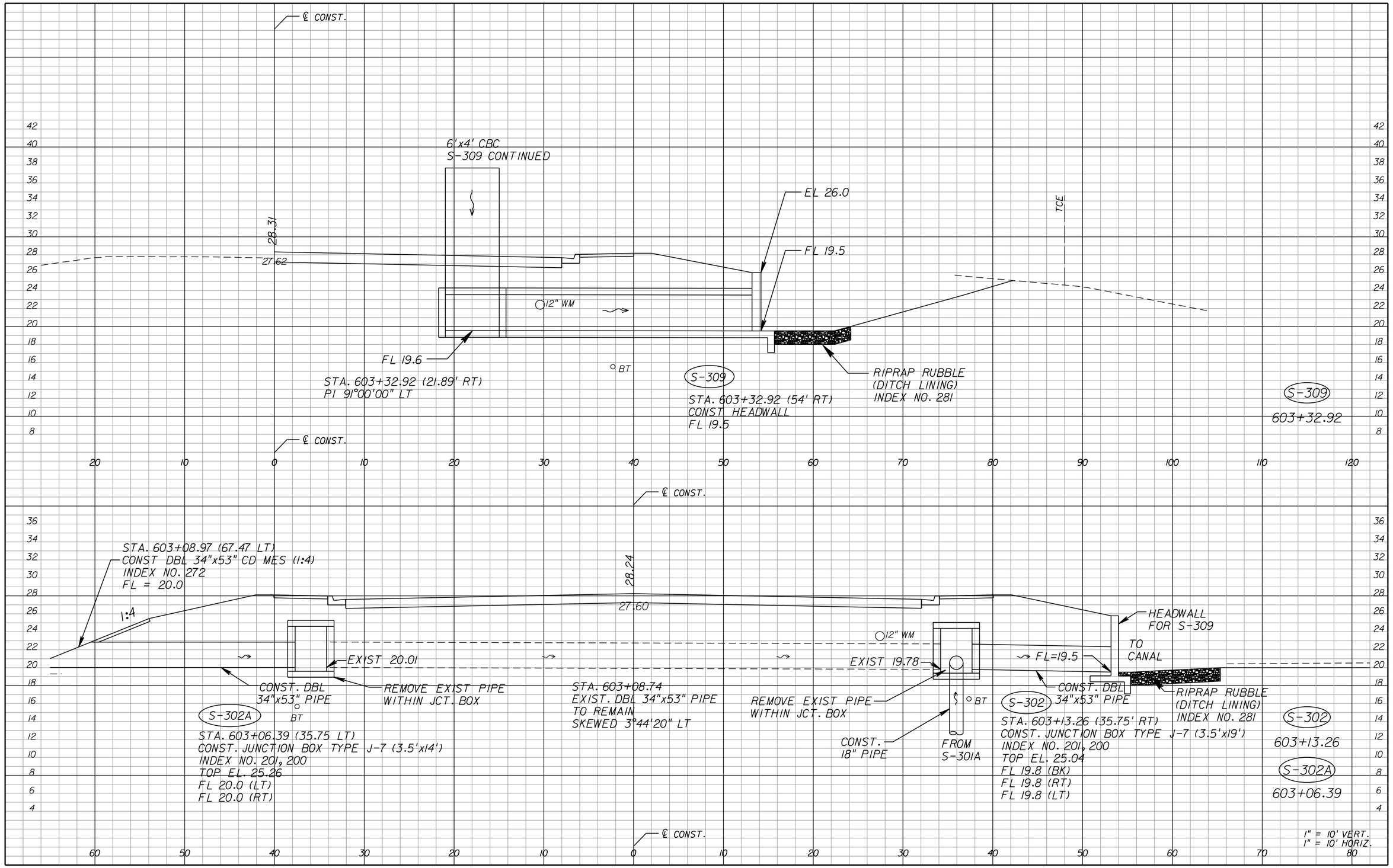
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 81

9/19/2016 12:18:28 PM PW:\2021I6\000000000053055\V3.00_CAD\Homestead\drainage\drxsrd01.dgn



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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 82

9/19/2016 12:18:29 PM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\drainage\drxsrd01.dgn

℄ CONST LIVE OAK CANAL
STA 18+75.27

℄ CONST.

℄ CONST.

STA. 606+51.33 (73.92' LT)
CONST HEADWALL
FL 20.0

EL 26.0

FL 20.0

FL 19.9

STA. 606+19.77 (58.56' LT)
PI 19°41'28" LT

8" WM

28.31

27.21

12" WM
BT
BT

STA. 605+40.51 (22.5' RT)
PI 45°38'41" RT

FL 19.8

S-309

STA 605+62.51
SKEWED 44°21'19.22" RT
CONST 6'x4' CONC BOX CULVERT
INDEX 289 & 291

6'x4' CBC
S-309 CONTINUED

S-309
605+62.51

℄ CONST.

℄ CONST.

6'x4' CBC
S-309 CONTINUED

28.41

27.19

EXIST. R/W

SLOPE EASEMENT

1:2

6'x4' CBC

12" WM
BT

S-309A

STA 605+32.51 (22.5' RT)
CONST MANHOLE TYPE P-8 (PARTIAL)
CONST 3.5' DIA OPENING IN TOP OF CBC
TOP EL 27.96
INDEX 201

6'x4' CBC
S-309 CONTINUED

S-309A
605+32.51

℄ CONST.

℄ CONST.

1" = 10' VERT.
1" = 10' HORIZ.

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
83

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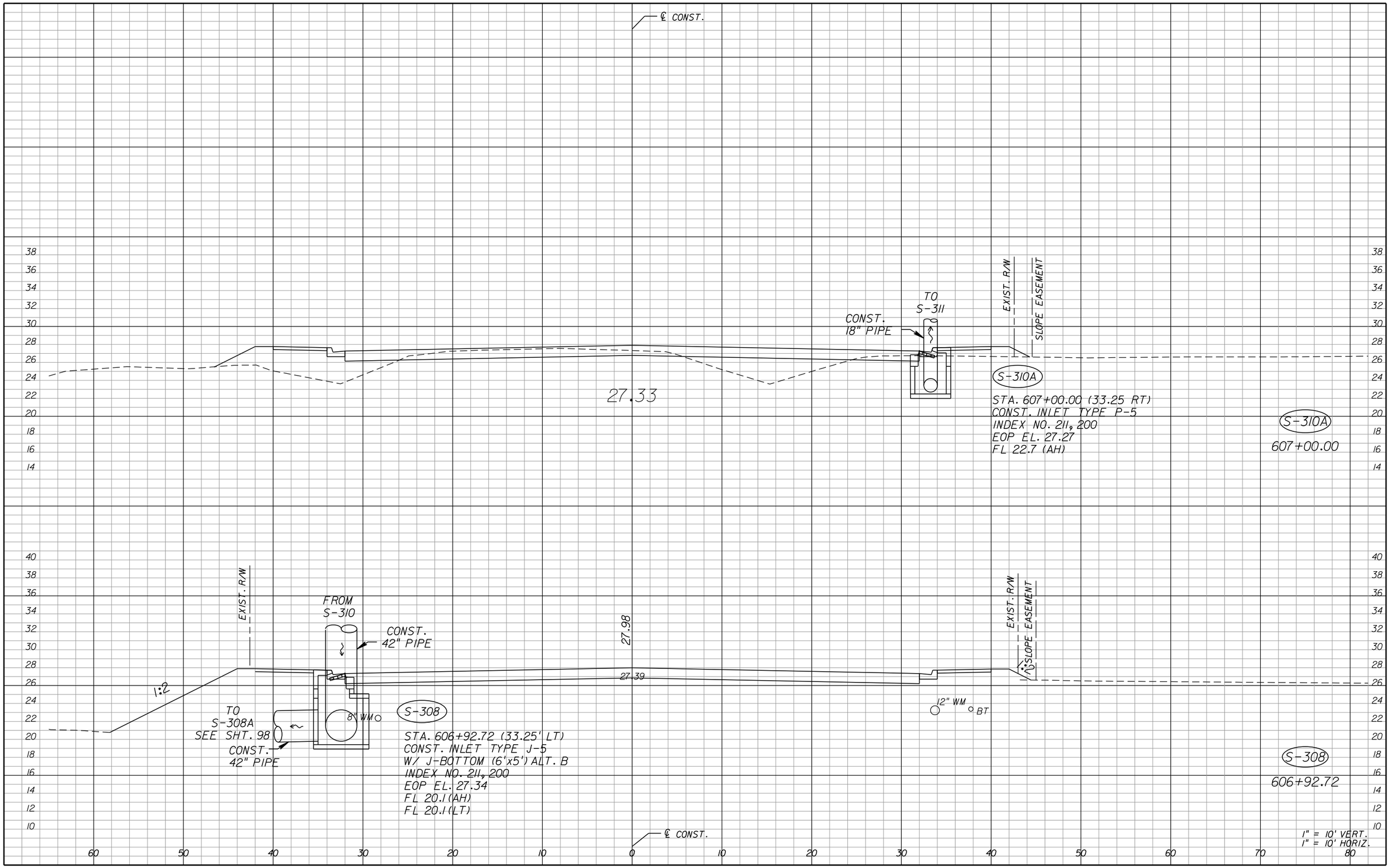

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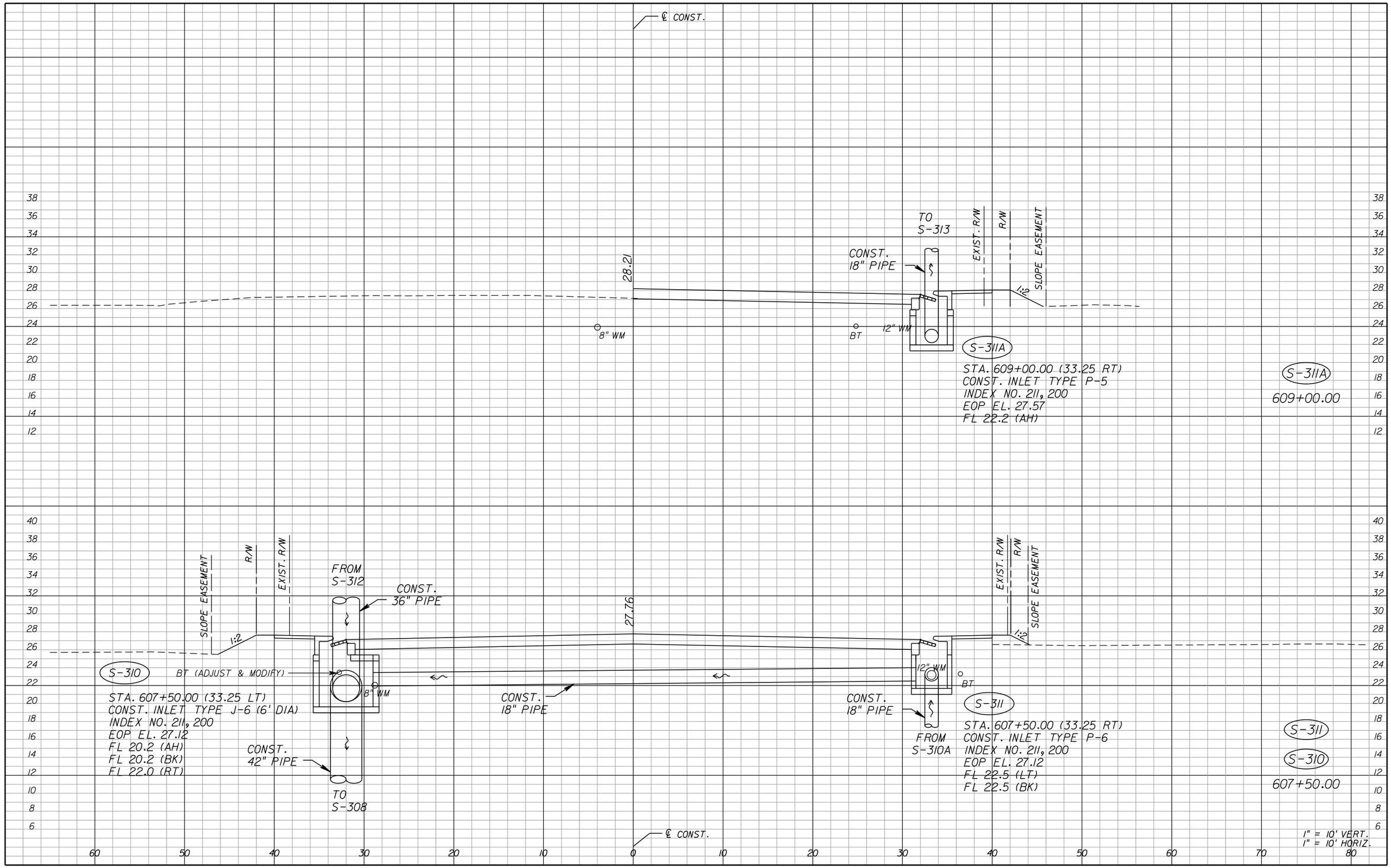
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 84



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DRAINAGE STRUCTURES HOMESTEAD ROAD

SHEET NO. 85

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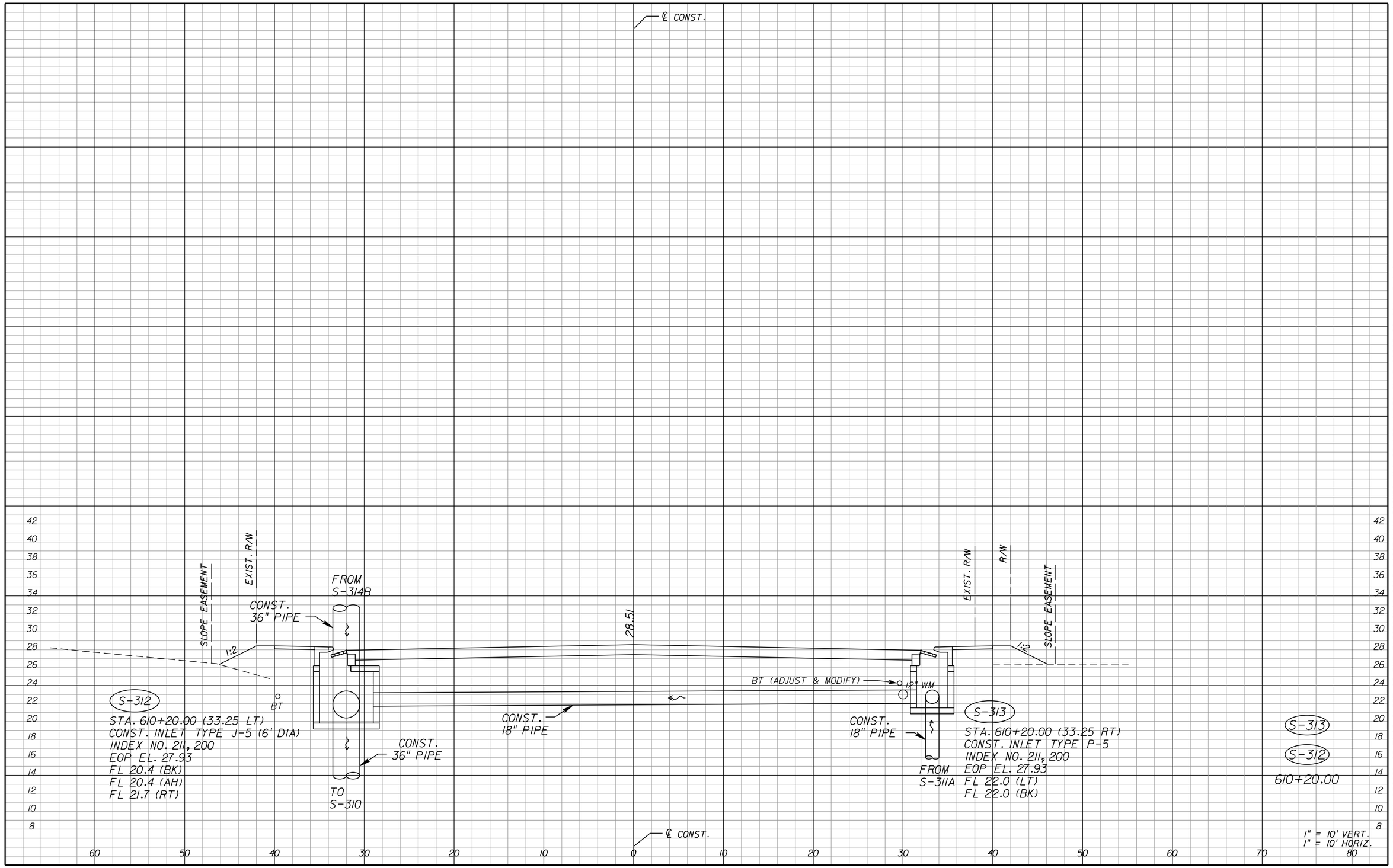

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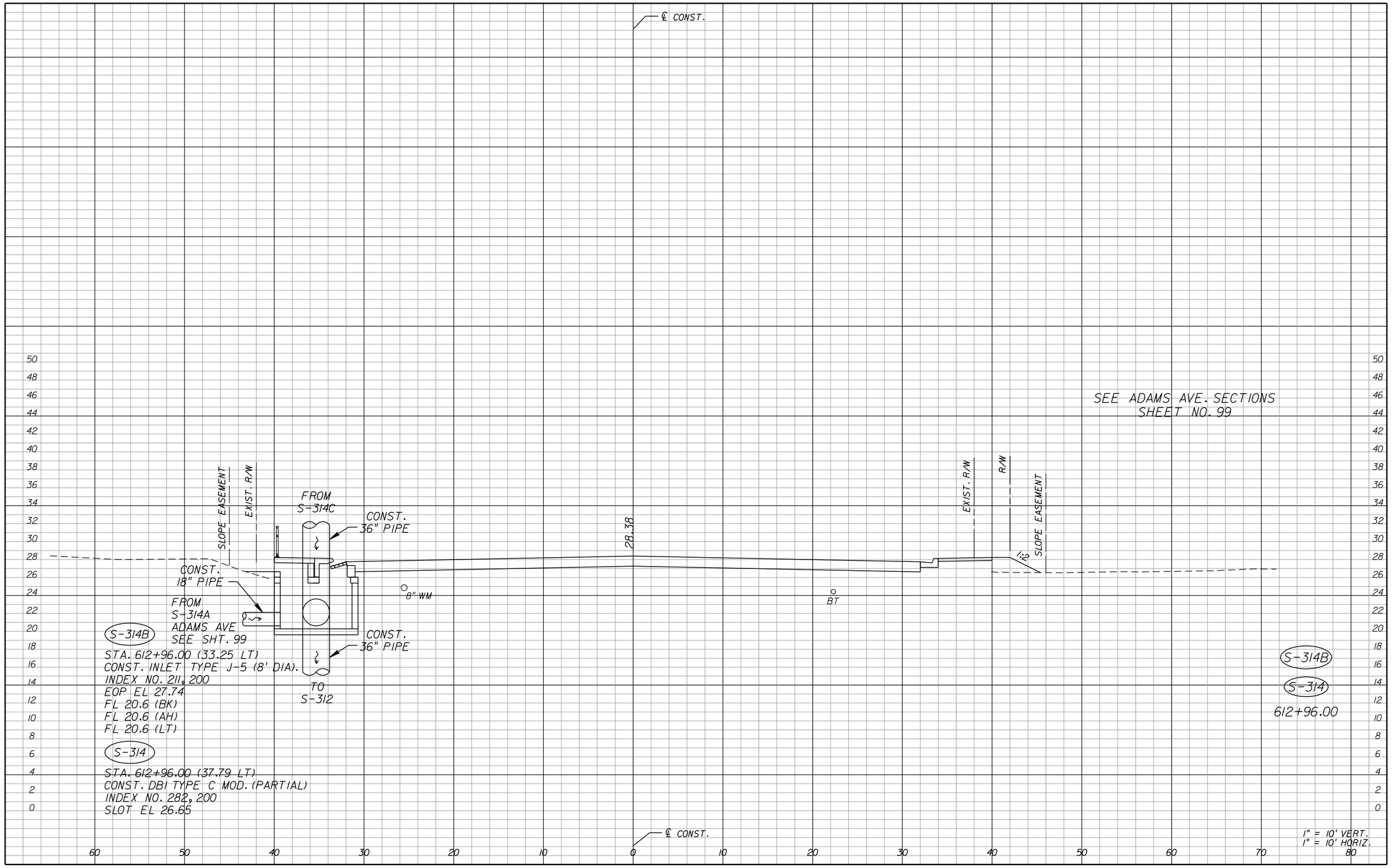
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 86

9/19/2016 12:18:33 PM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\drainage\drxsrd01.dgn



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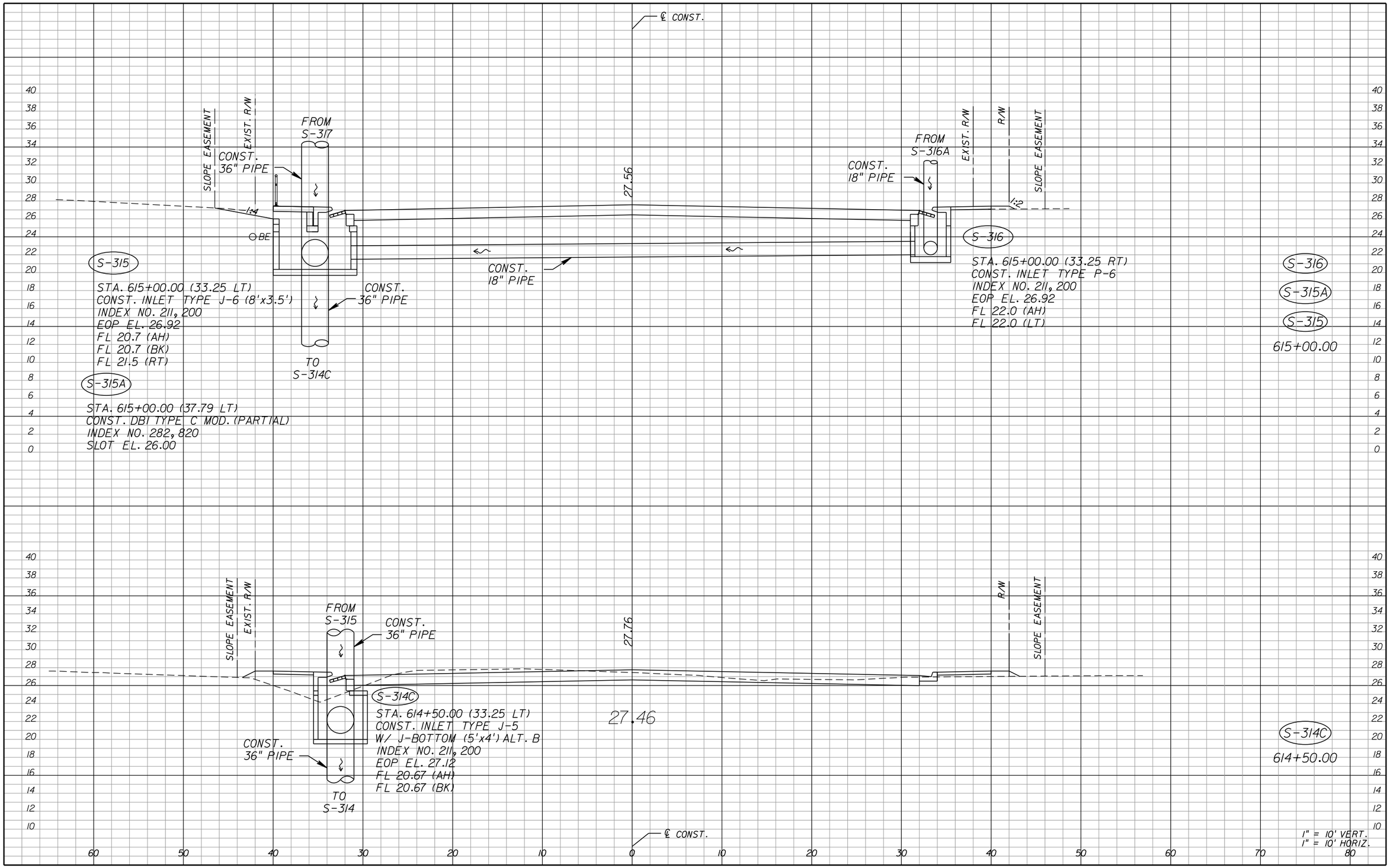
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
87

9/19/2016 12:18:34 PM PW:\2021\6\000000000053055\3.00_CAD\Homestead\drainage\drxsrd01.dgn



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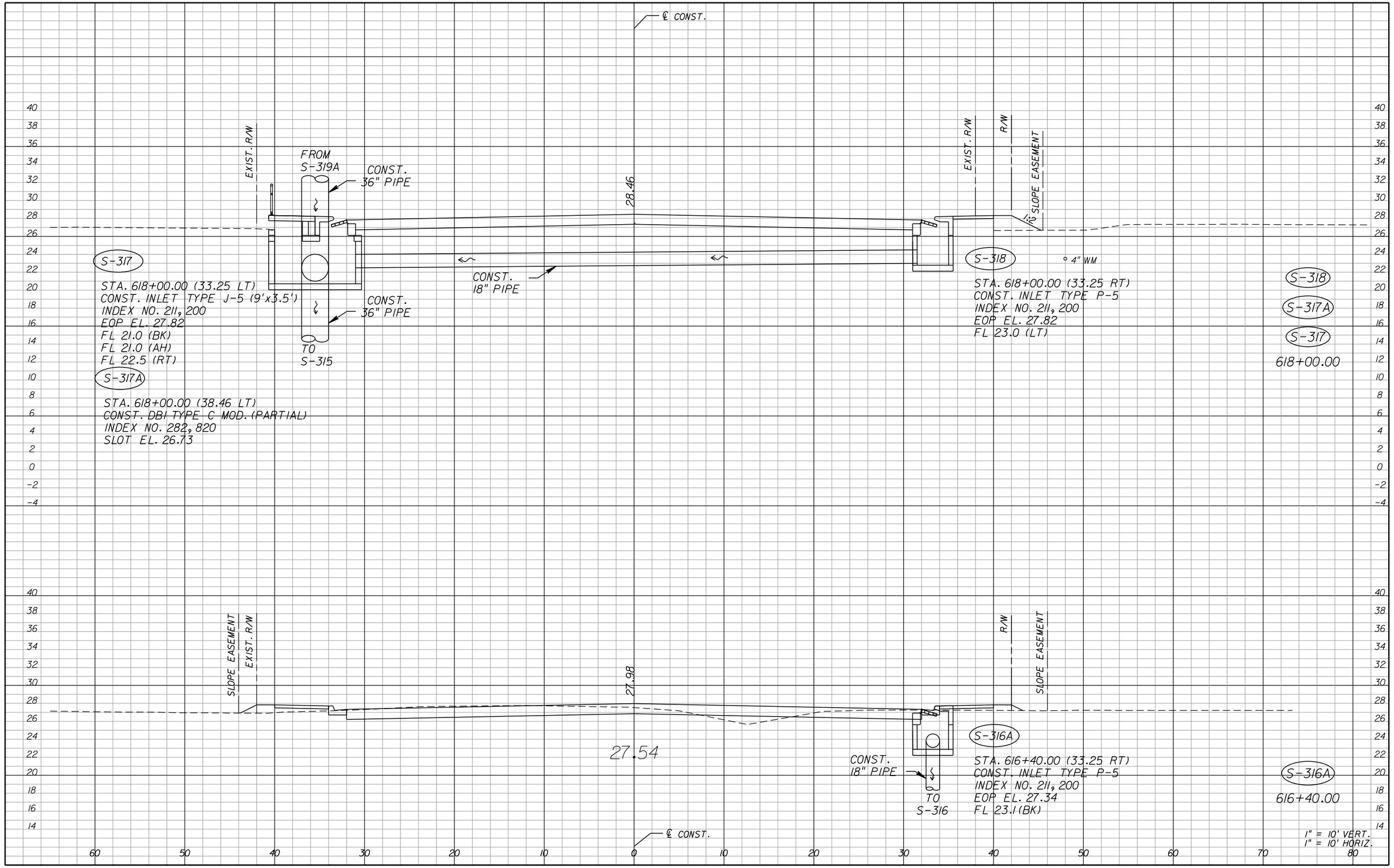
ASTEVANU

DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 88

9/19/2016 12:18:35 PM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\drainage\drxsrd01.dgn



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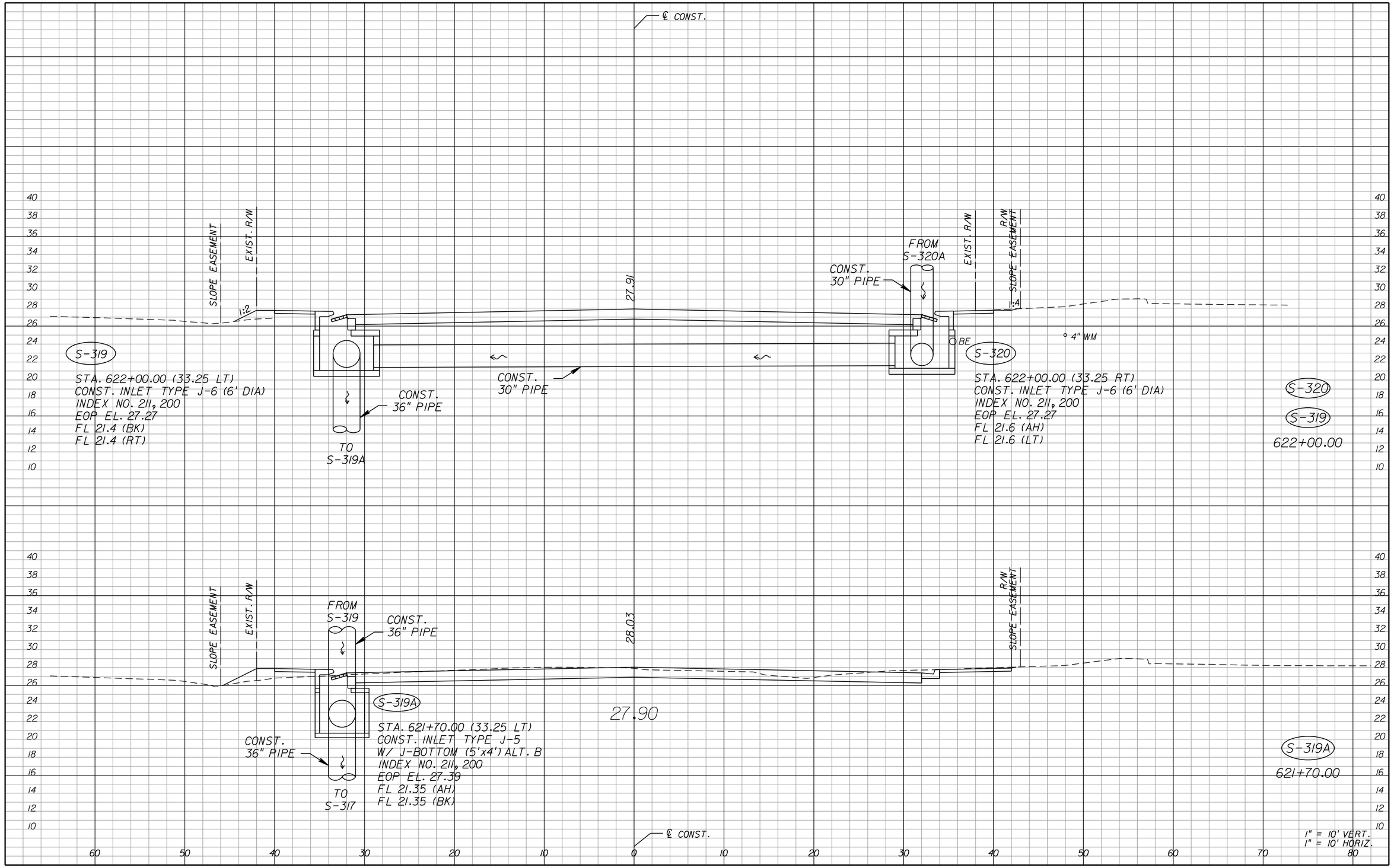
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
89

9/19/2016 12:18:36 PM PW:\2021\6\000000000053055\3.00_CAD\Homestead\drainage\drxsrd01.dgn



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ASTEVANU

DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 90

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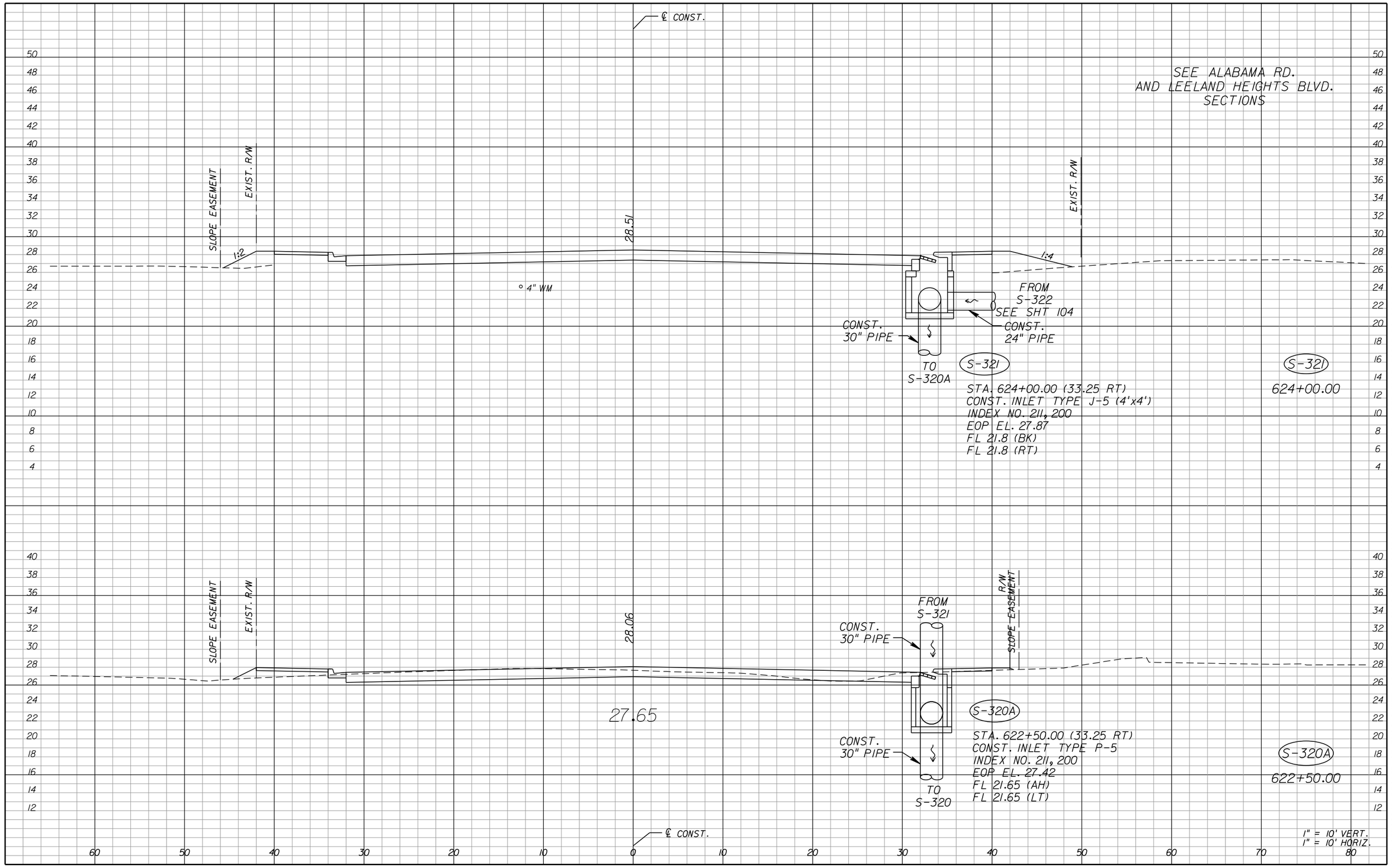

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ASTEVANU

DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 91

9/19/2016 12:18:39 PM PW:\2016\0000000005305\3.00_CAD\Homestead\drainage\drxsrd01.dgn

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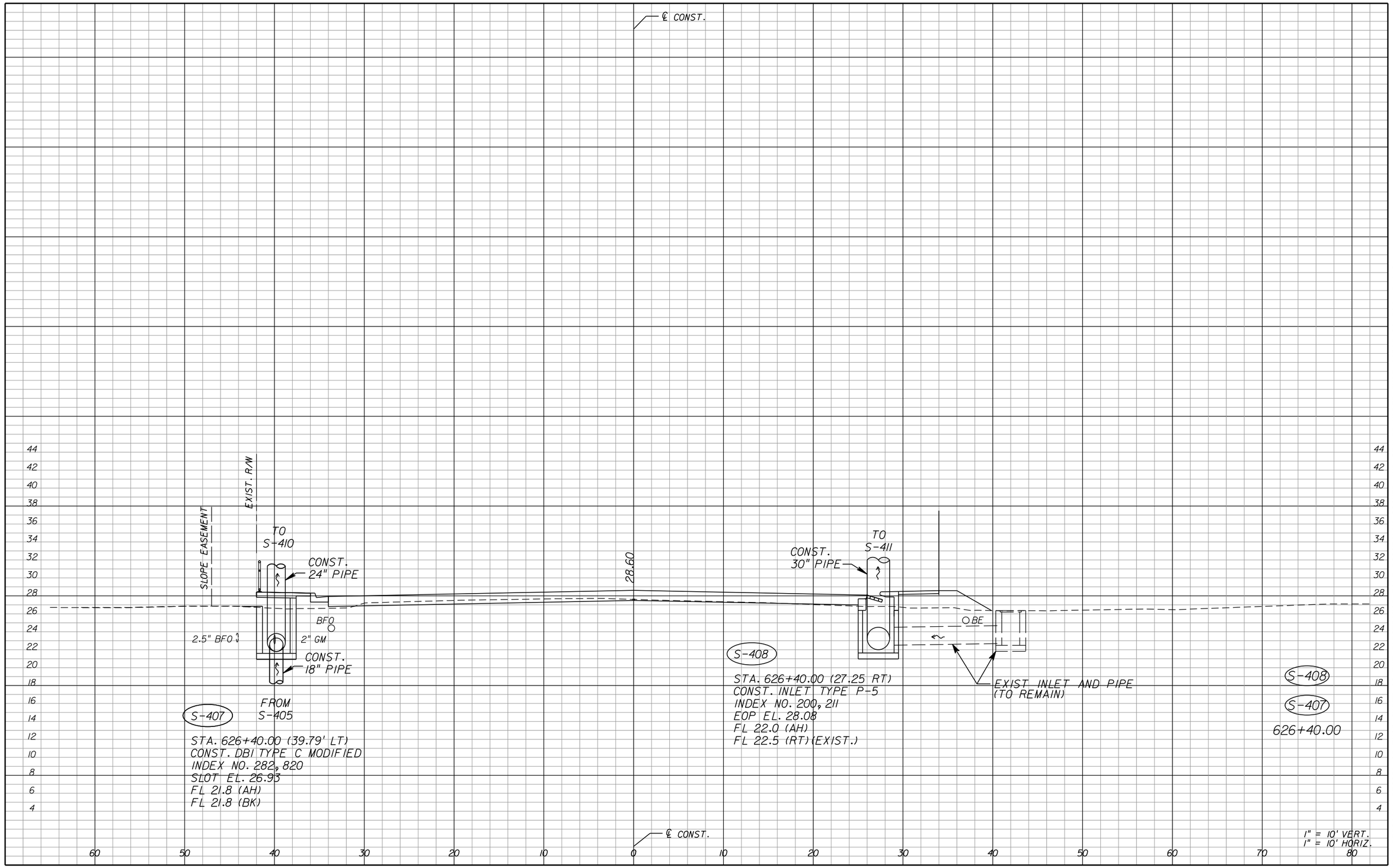

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 92

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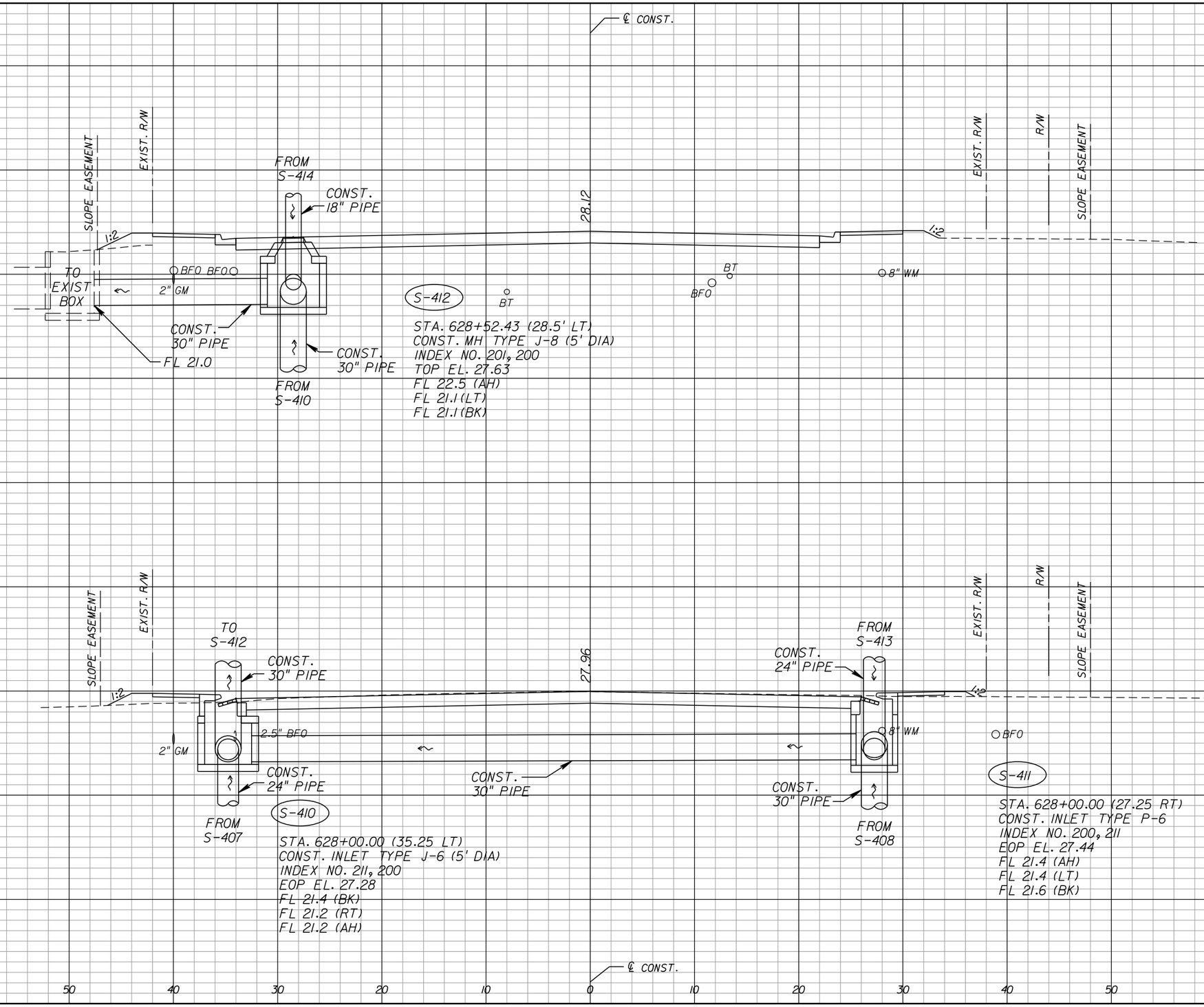

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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 93

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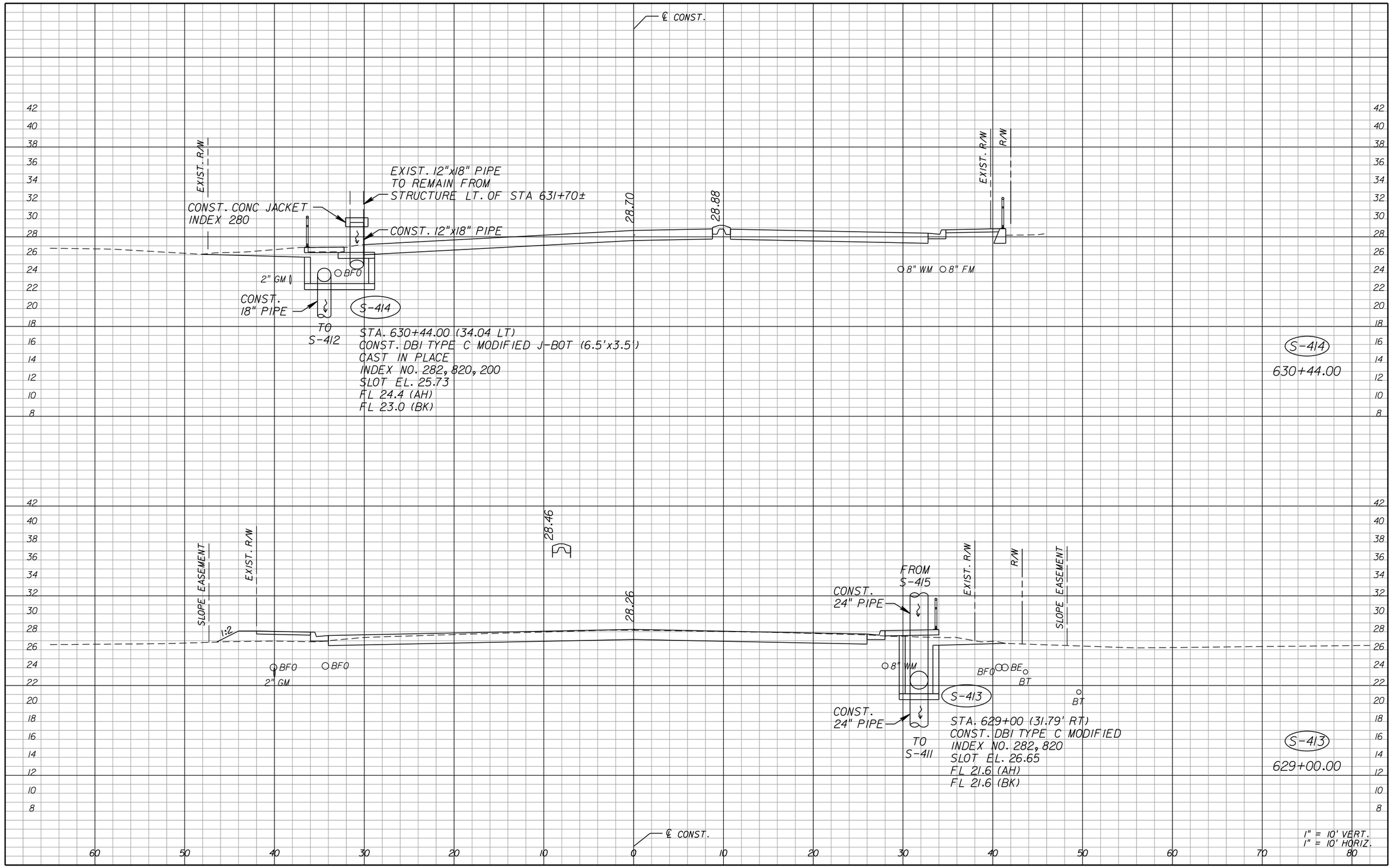

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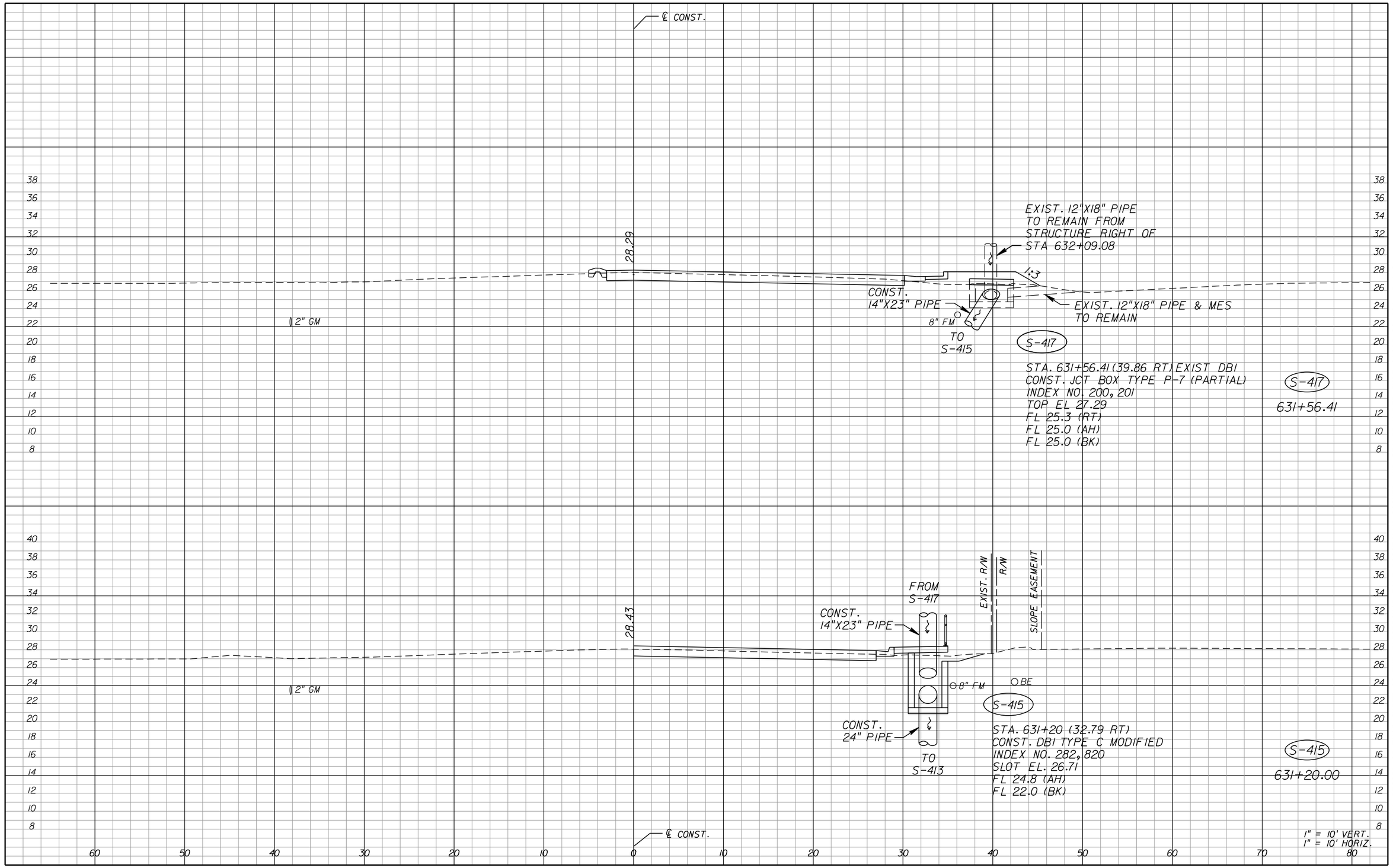
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
94



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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
95

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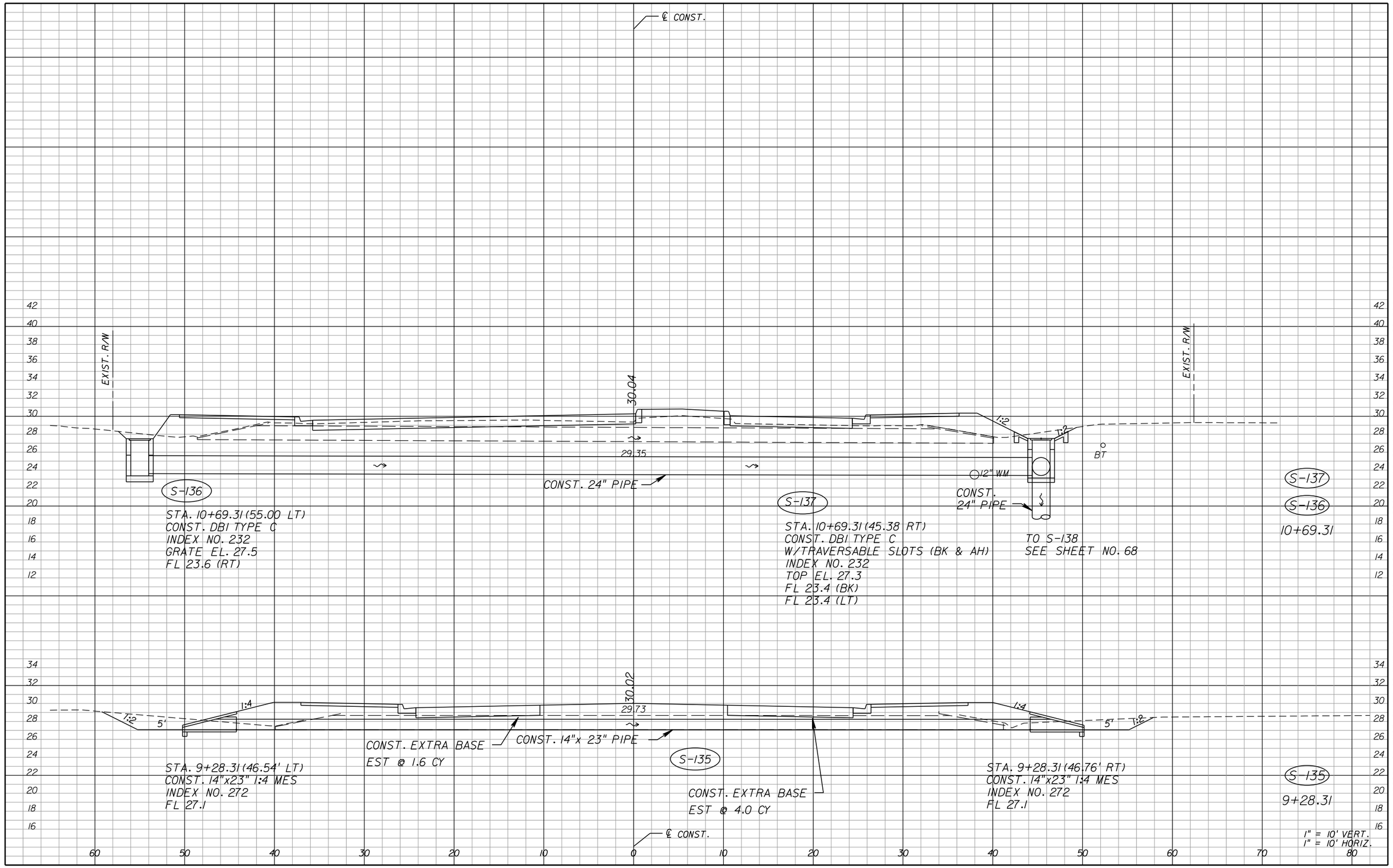

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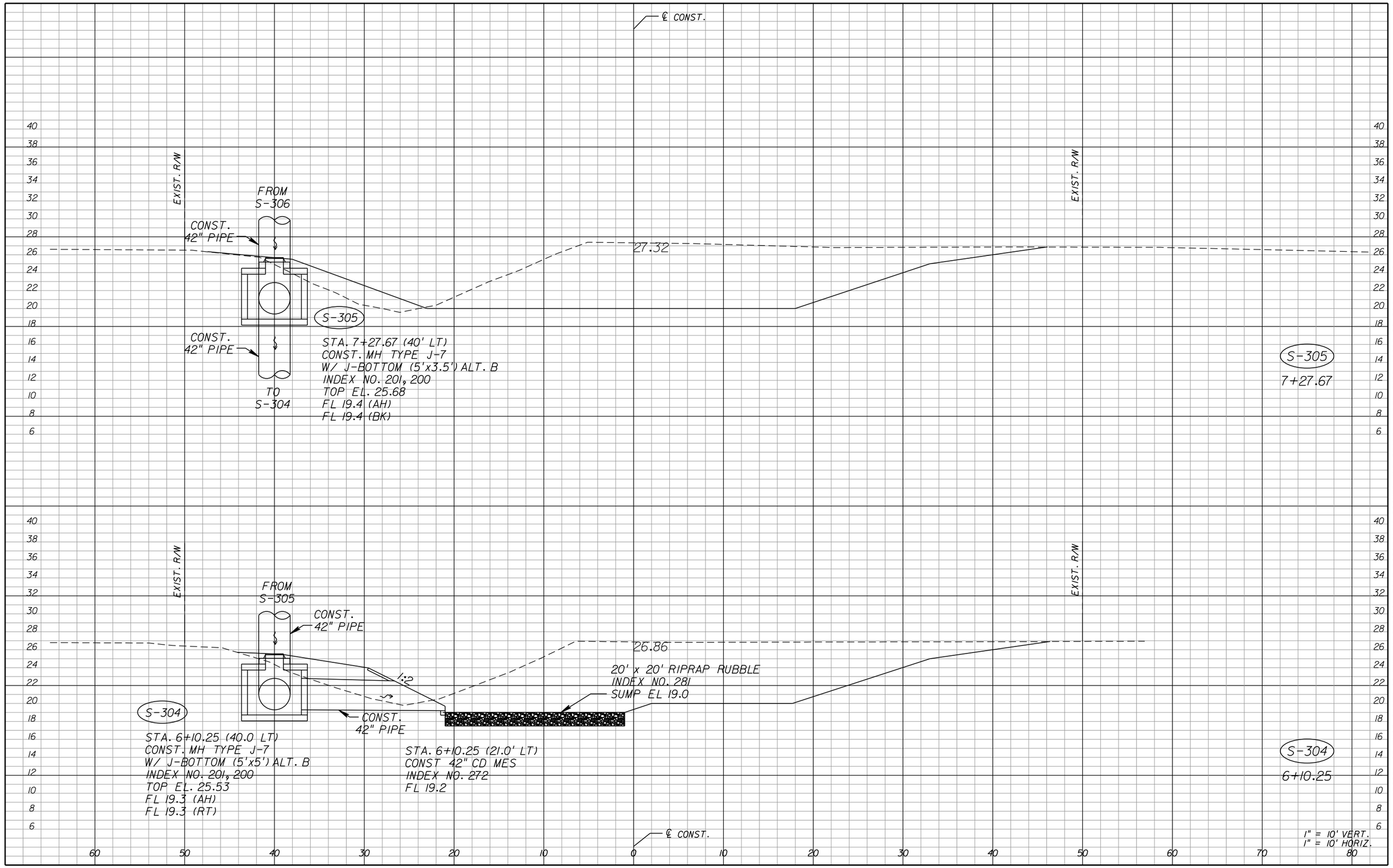
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO. 96

ASTEVANU 9/19/2016 12:18:43 PM PW:\2021\6\0000000053055\3.00_CAD\Homestead\dr\nage\drxsrd01.dgn



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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
97

9/19/2016 12:18:44 PM PW:\2021\6\000000000053055\3.00_CAD\Homestead\drainage\drxsrd01.dgn

EXIST. R/W

FROM S-308
SEE SHEET NO. 84

CONST.
42" PIPE

S-308A

CONST.
42" PIPE

TO
S-306

STA. 18+85.00 (40' LT)
CONST. MH TYPE J-7
W/ J-BOTTOM (5'x5') ALT. B
INDEX NO. 201, 200
TOP EL. 25.55
FL 20.0 (AH)
FL 20.0 (BK)

℄ CONST.

EXIST. R/W

S-308A
18+85.00

EXIST. R/W

FROM
S-308A

CONST.
42" PIPE

27.39

S-307

CONST.
42" PIPE

TO
S-306

STA. 15+27.67 (40' LT)
CONST. MH TYPE J-7
W/ J-BOTTOM (5'x3.5') ALT. B
INDEX NO. 201, 200
TOP EL. 25.67
FL 19.8 (AH)
FL 19.8 (BK)

EXIST. R/W

S-307
15+27.67

EXIST. R/W

FROM
S-307

CONST.
42" PIPE

27.30

S-306

CONST.
42" PIPE

TO
S-305

STA. 11+27.67 (40' LT)
CONST. MH TYPE J-7
W/ J-BOTTOM (5'x3.5') ALT. B
INDEX NO. 201, 200
TOP EL. 25.67
FL 19.6 (AH)
FL 19.6 (BK)

EXIST. R/W

S-306
11+27.67

℄ CONST.

1" = 10' VERT.
1" = 10' HORIZ.

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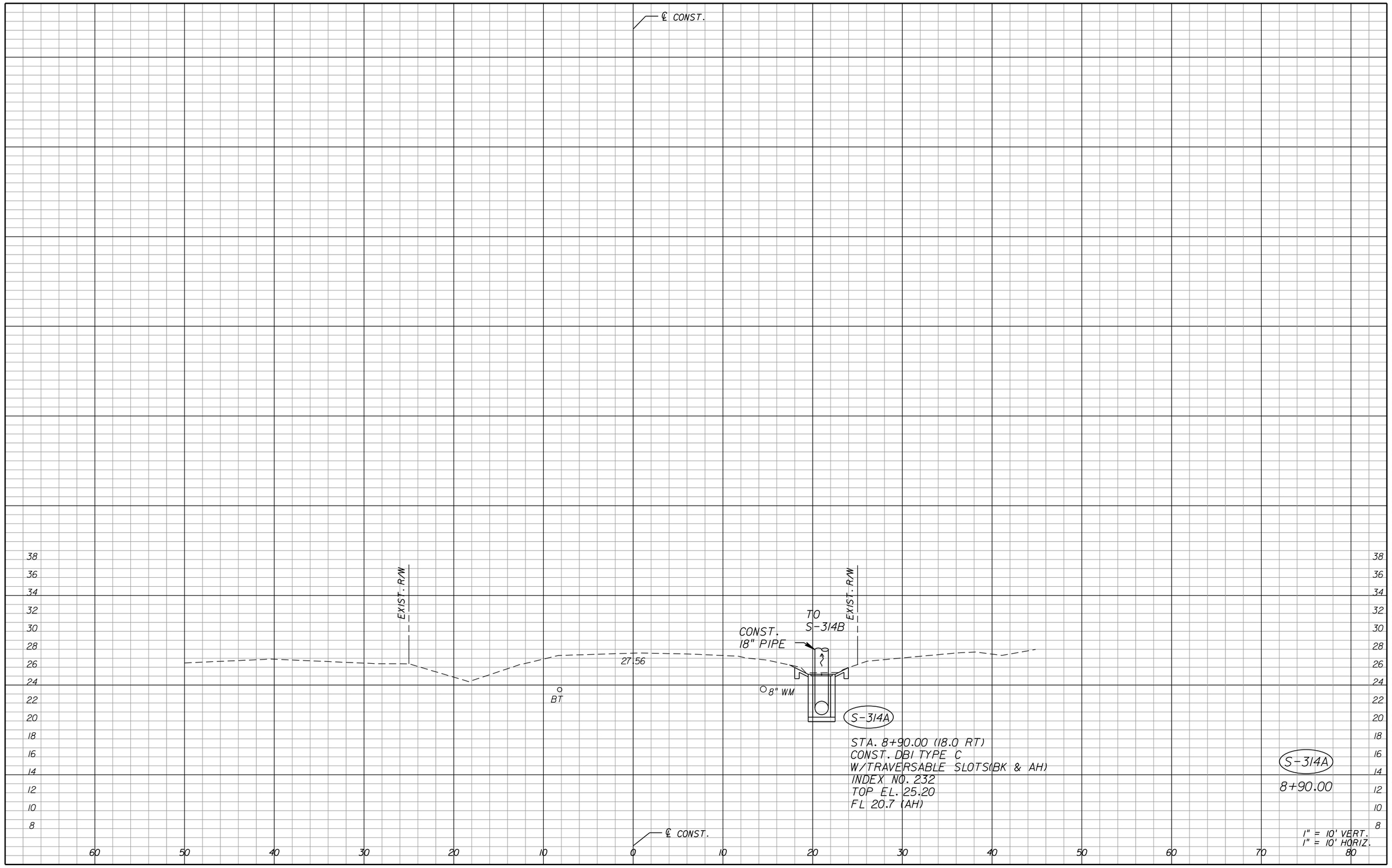
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
98

9/19/2016 12:18:45 PM PW:\2021\6\000000000053055\3.00_CAD\Homestead\drainage\drxsrd01.dgn



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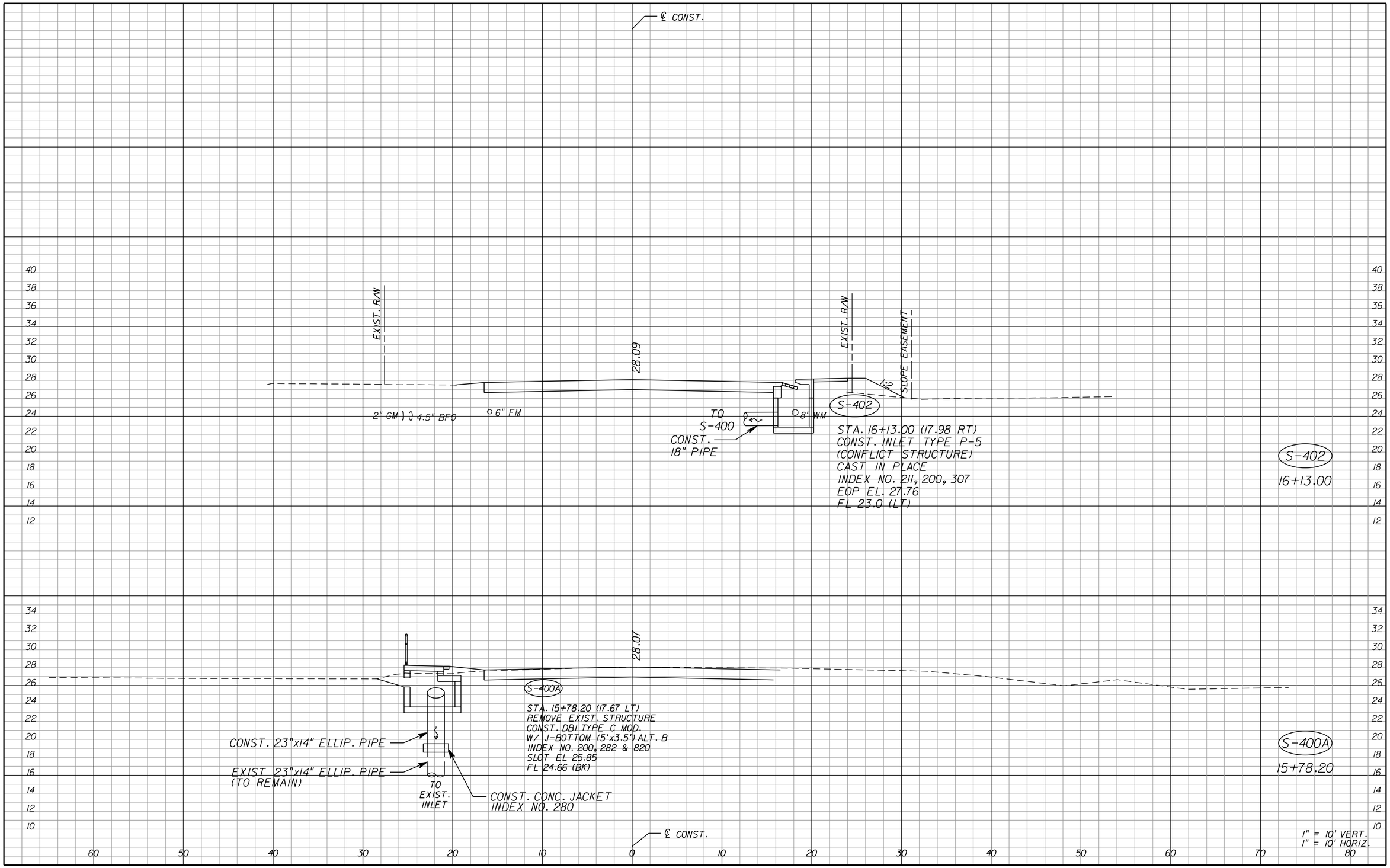
DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
99

9/19/2016 12:18:46 PM PW:\2021\6\00000000053055\3.00_CAD\Homestead\drainage\drxsrd01.dgn



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DRAINAGE STRUCTURES
HOMESTEAD ROAD

SHEET NO.
100

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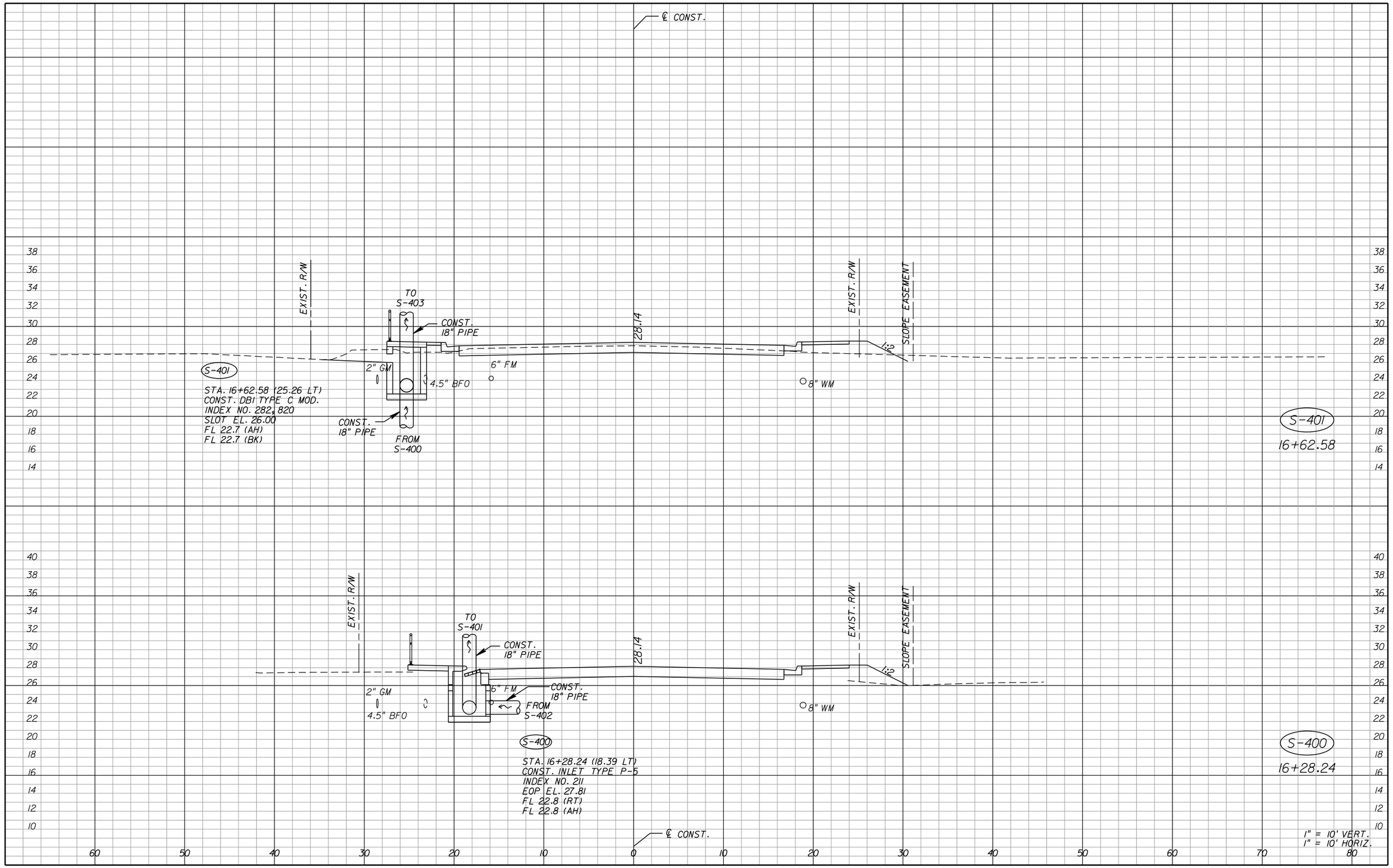

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SHEET NO. 101

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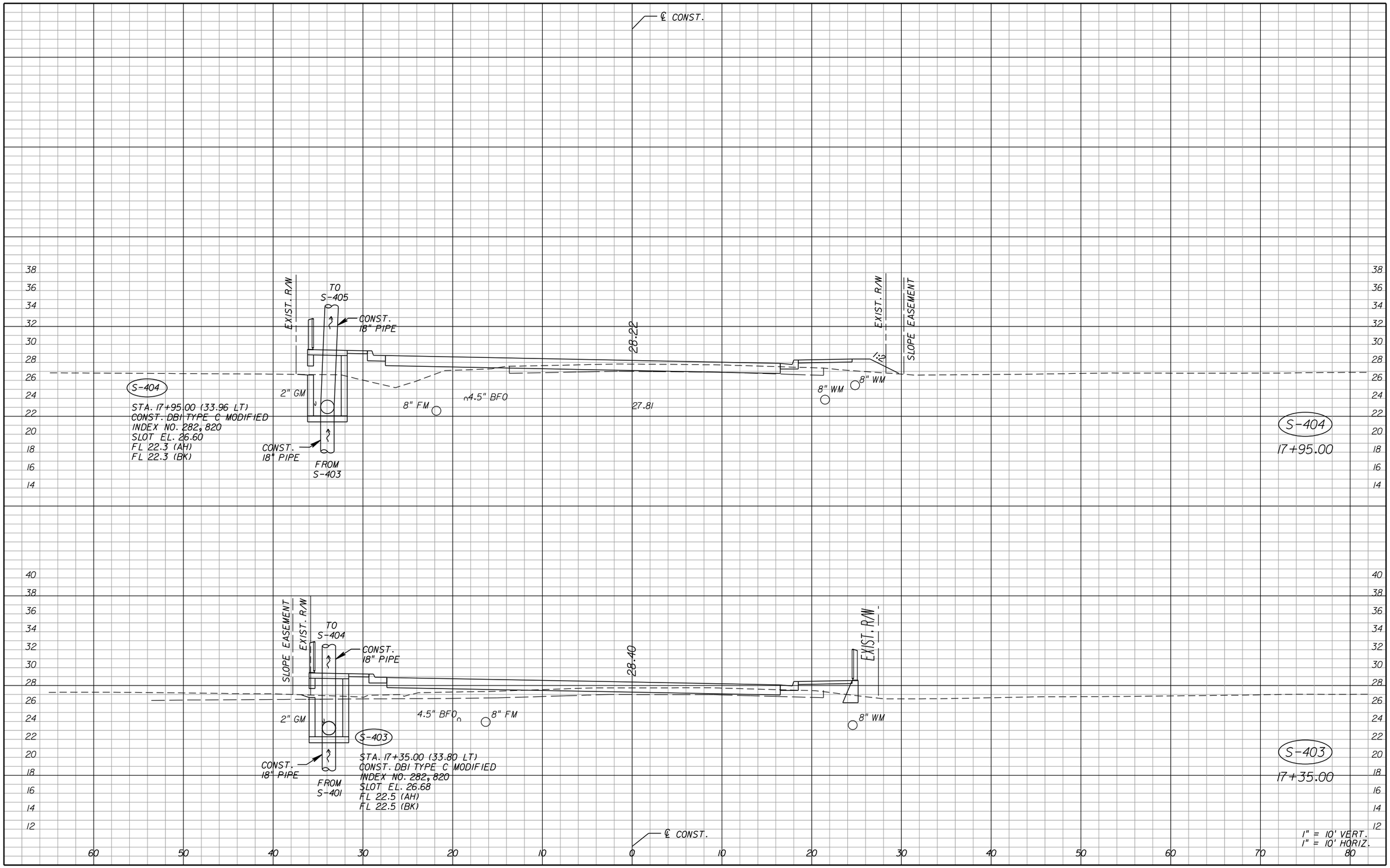

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DRAINAGE STRUCTURES HOMESTEAD ROAD

SHEET NO. 102

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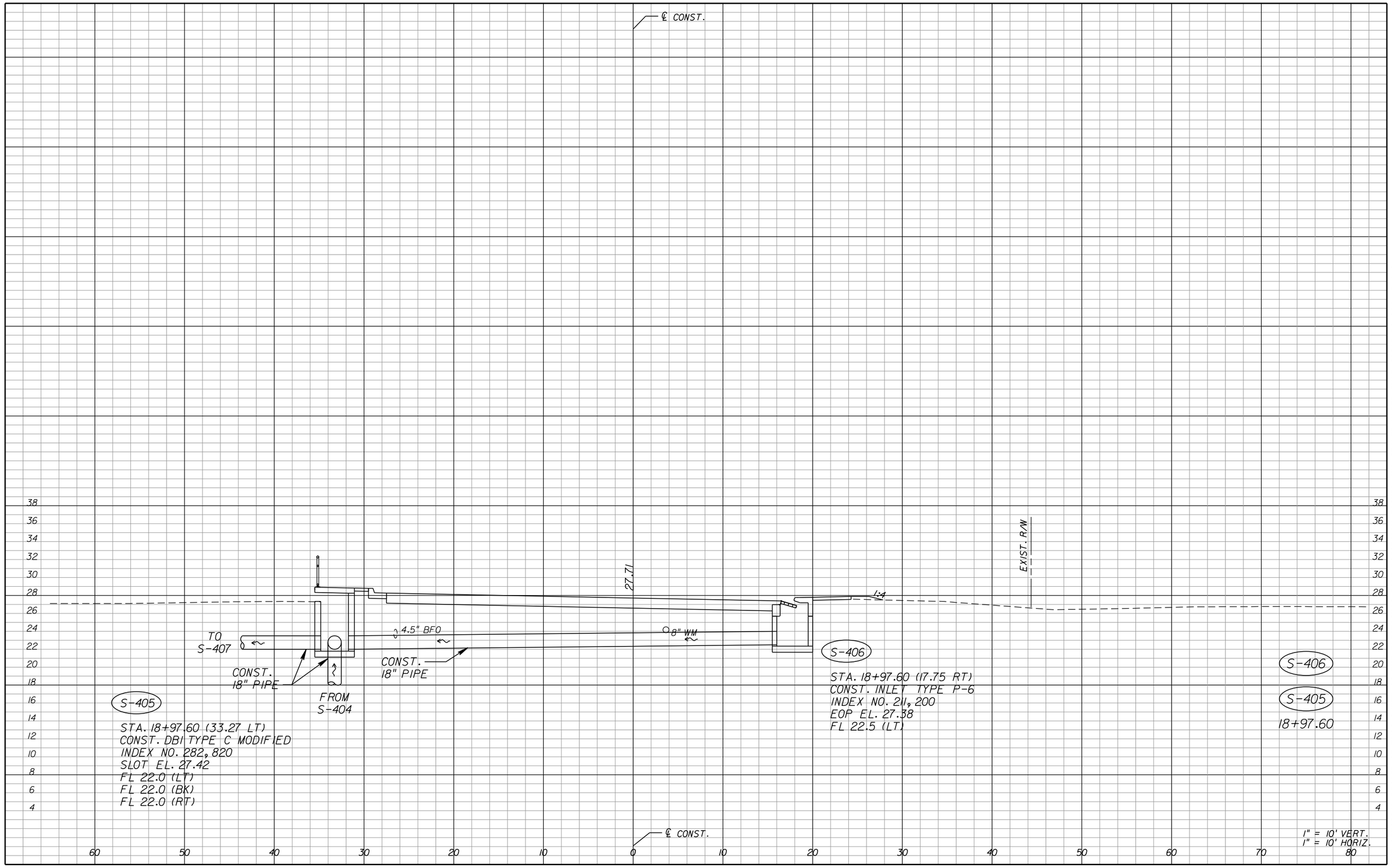

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SHEET NO. 103

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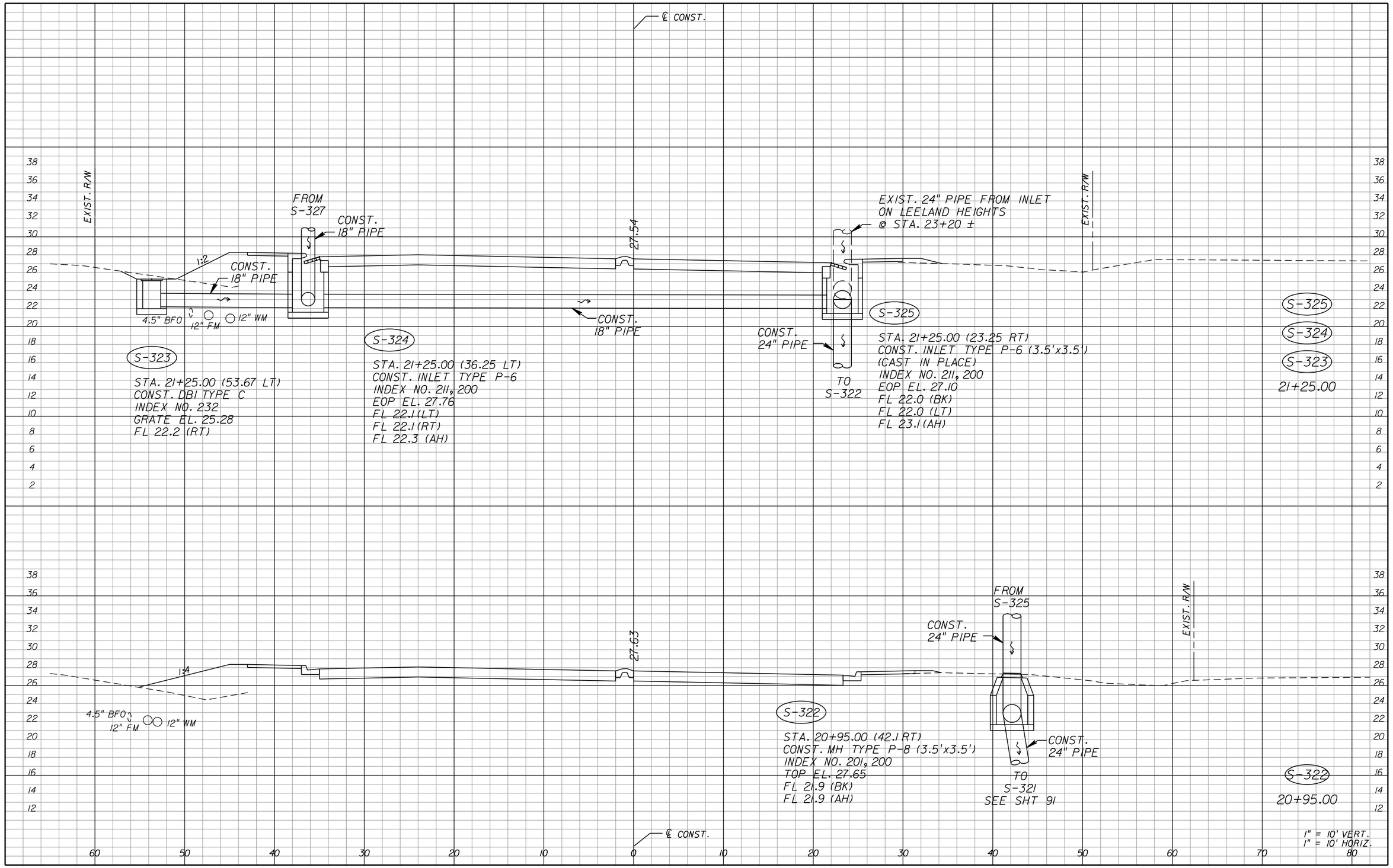

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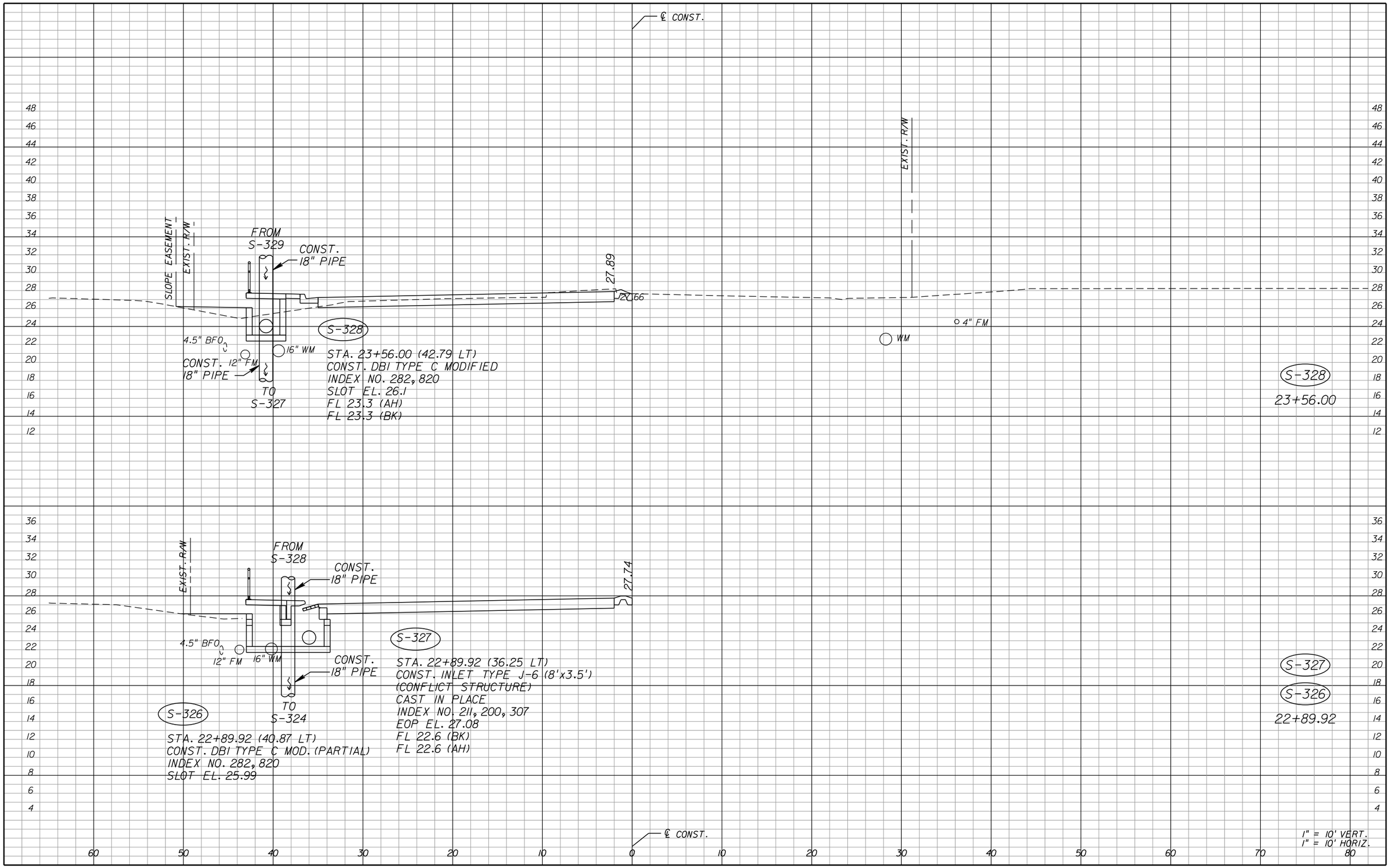

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SHEET NO. 105

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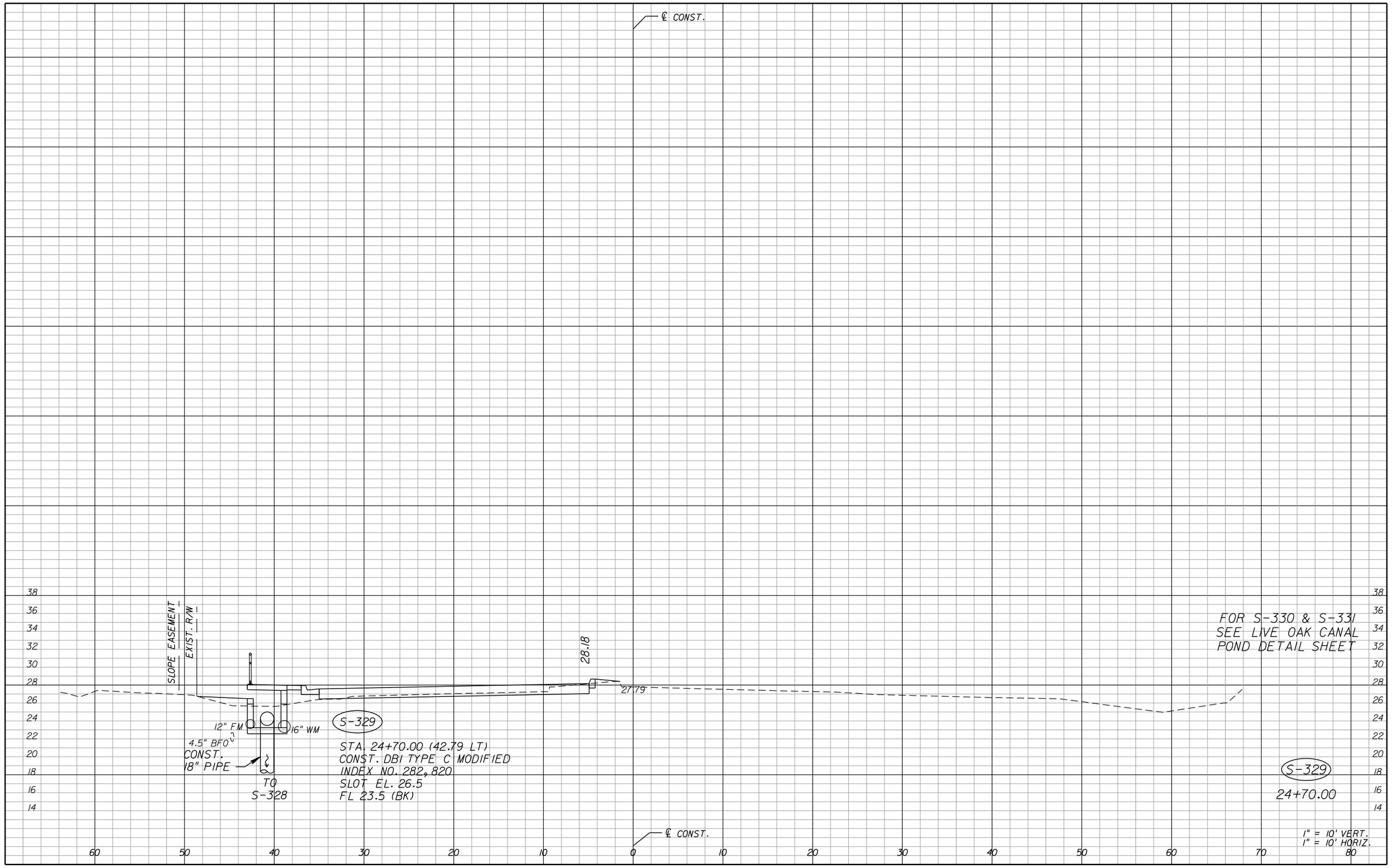

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DRAINAGE STRUCTURES
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SHEET NO.
106

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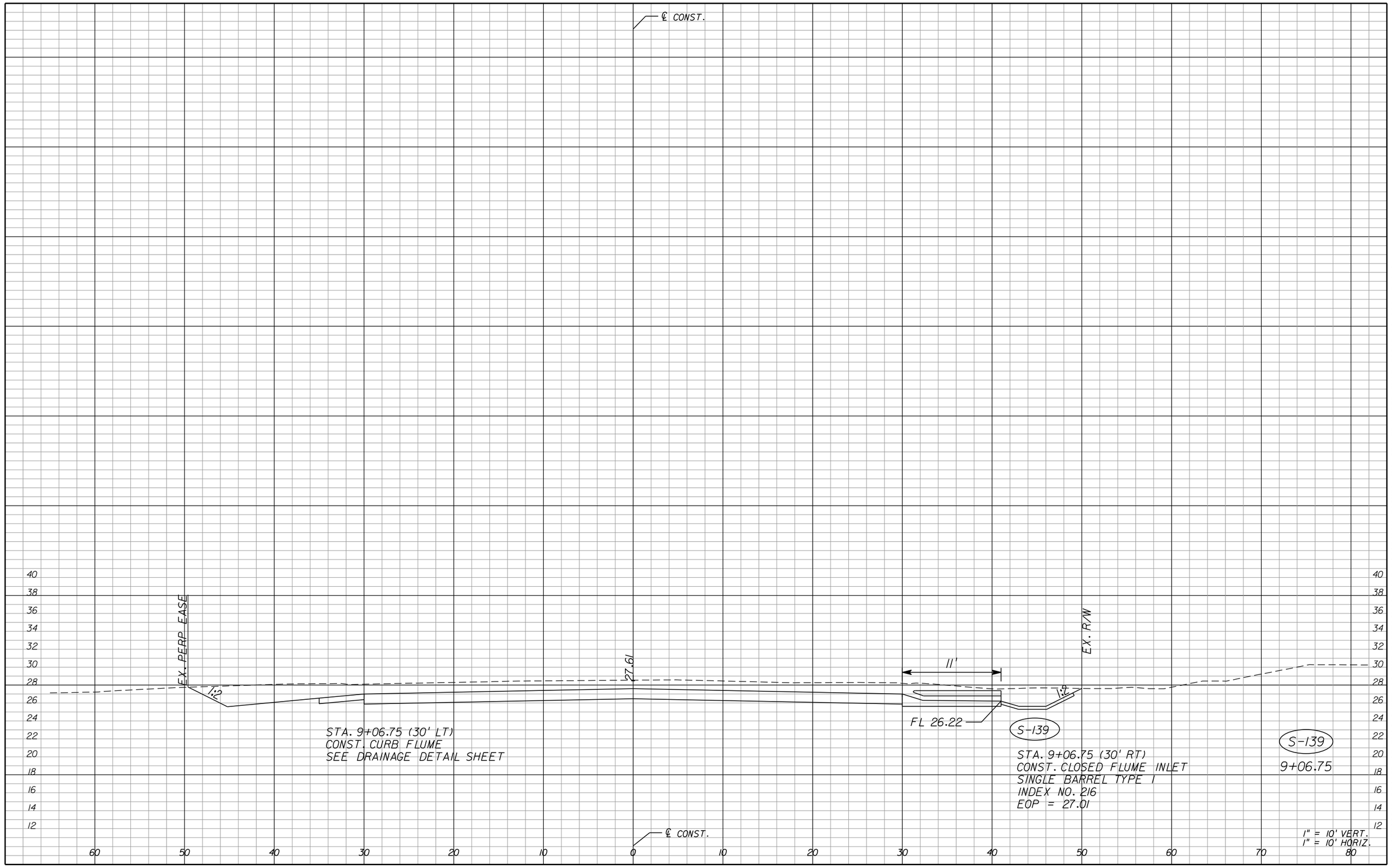

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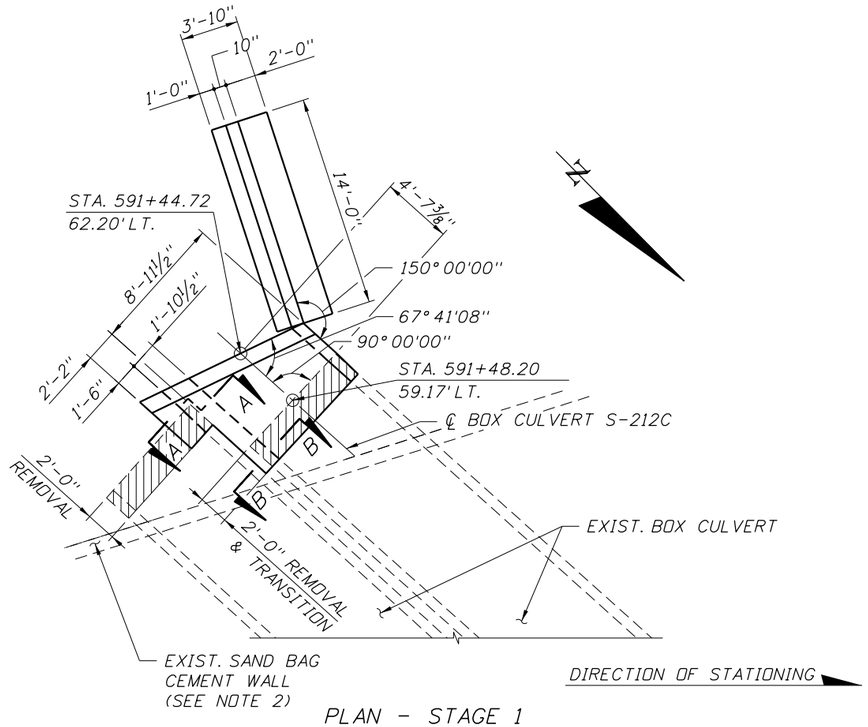
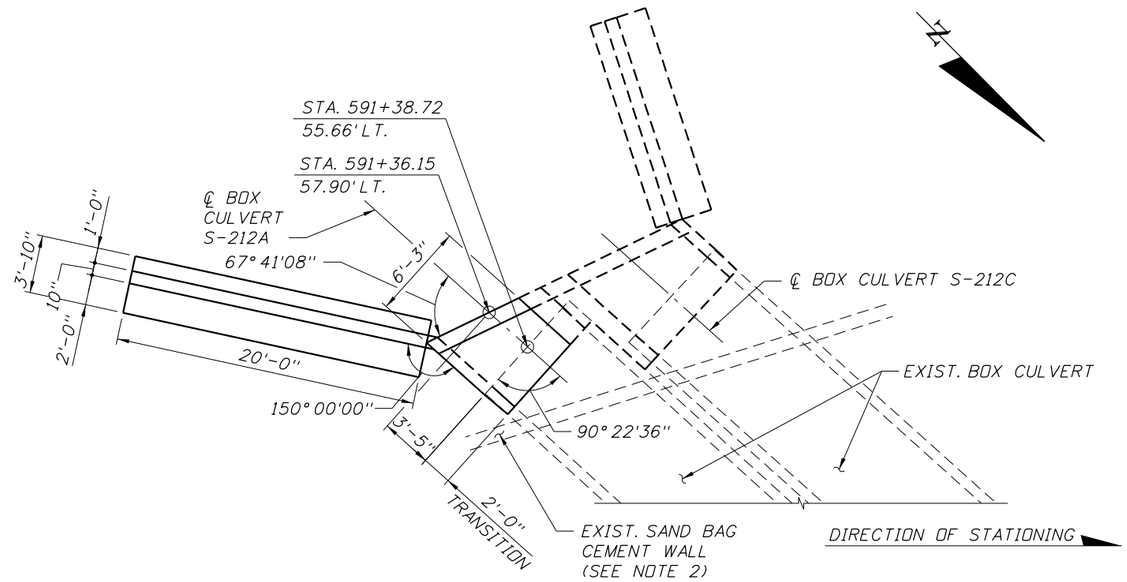
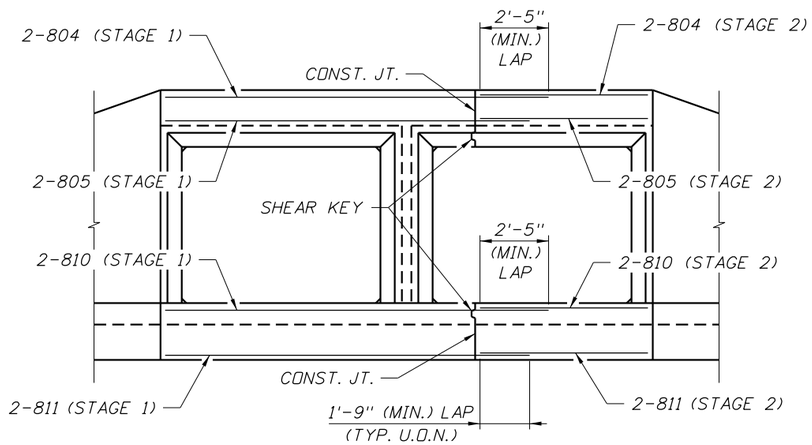


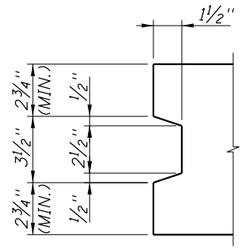
PLAN - STAGE 1
BOX CULVERT S-212C



PLAN - STAGE 2
BOX CULVERT S-212A



ELEVATION



SHEAR KEY DETAIL

NOTES:

1. CUT BACK 2'-0" OF EXISTING CULVERT, PARALLEL TO THE EXISTING CULVERT OPENING, WHILE AVOIDING DAMAGE TO EXISTING REINFORCEMENT. CLEAN AND STRAIGHTEN EXISTING REINFORCEMENT. LAP AND TIE EXTENSION REINFORCEMENT ONTO EXISTING.
2. REMOVE EXISTING SAND BAG CEMENT WALL AS NECESSARY FOR CULVERT EXTENSION.
3. STATIONS AND OFFSETS ARE BASED ON ℄ CONST. HOMESTEAD ROAD.
4. FOR SECTIONS A-A AND B-B, SEE CONCRETE BOX CULVERT REINFORCING DETAIL SHEET.
5. FOR BOX CULVERT DATA TABLES SEE CONCRETE BOX CULVERT DATA TABLE SHEET (S-212A AND S-212C).
6. FOR BOX CULVERT REINFORCING BAR LIST, SEE REINFORCING BAR LIST SHEETS (S-212A AND S-212C).

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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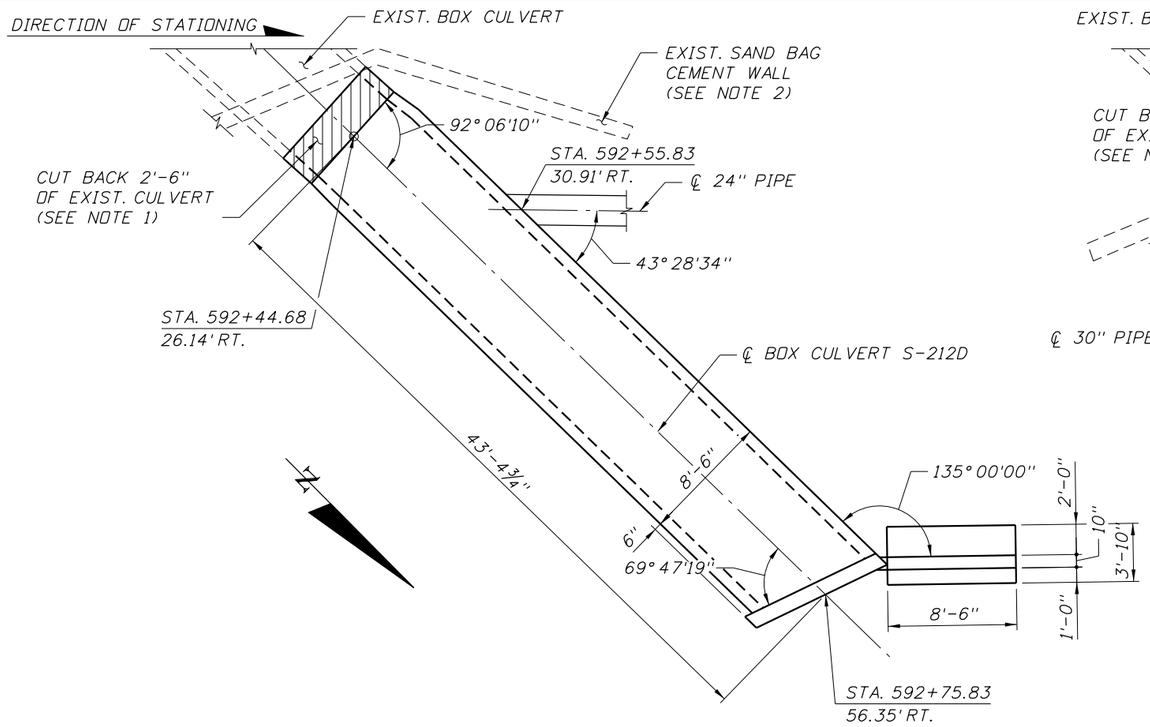
FORT MYERS, FLORIDA 33901

CONCRETE BOX CULVERT DETAILS
S-212A AND S-212C

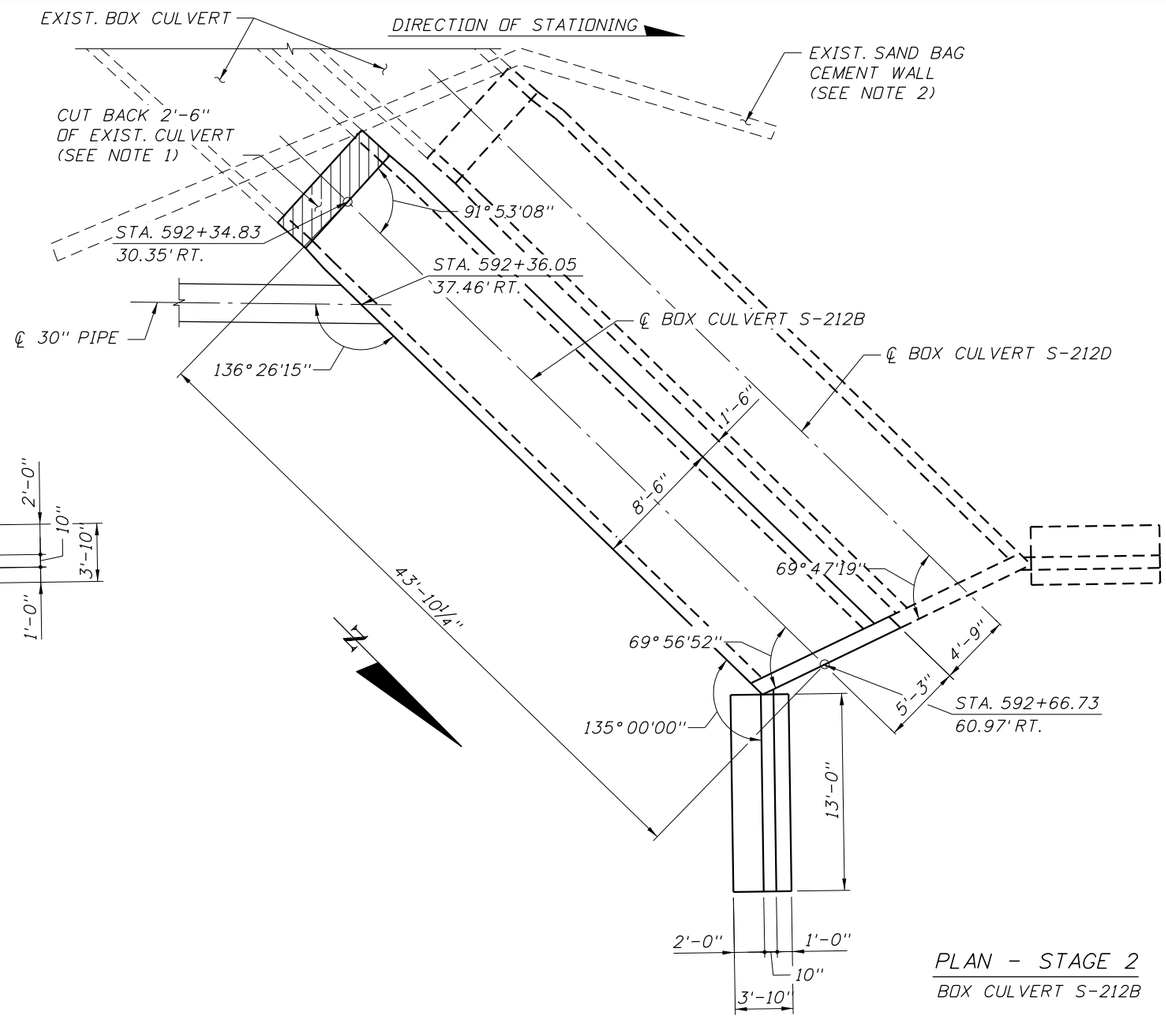
SHEET NO. 108

EGILBERT 9/19/2016 11:10:33 AM PW:\2021\6\0000000000053055\V3.00_CAD\Homestead\struct\BIM\scStrCIv102.dgn



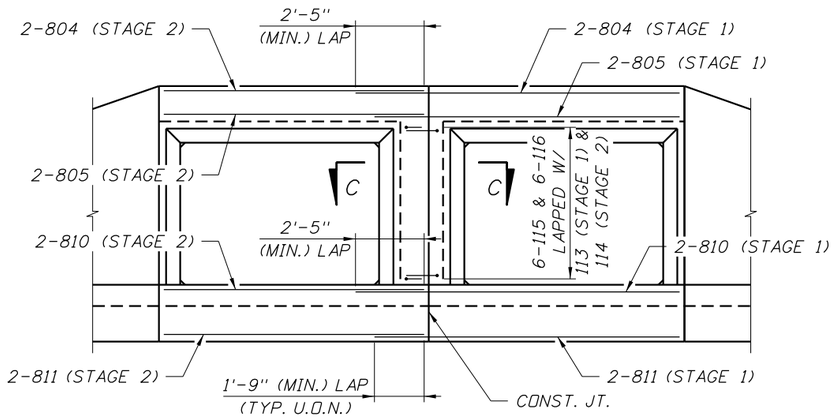
PLAN - STAGE 1

BOX CULVERT S-212D



PLAN - STAGE 2

BOX CULVERT S-212B



ELEVATION

NOTES:

1. CUT BACK 2'-6" OF EXISTING CULVERT, PARALLEL TO THE EXISTING CULVERT OPENING, WHILE AVOIDING DAMAGE TO EXISTING REINFORCEMENT. CLEAN AND STRAIGHTEN EXISTING REINFORCEMENT. LAP AND TIE EXTENSION REINFORCEMENT ONTO EXISTING.
2. REMOVE EXISTING SAND BAG CEMENT WALL AS NECESSARY FOR CULVERT EXTENSION.
3. STATIONS AND OFFSETS ARE BASED ON ℄ CONST. HOMESTEAD ROAD.
4. FOR SECTION C-C, SEE CONCRETE BOX CULVERT REINFORCING DETAILS.
5. FOR PIPE CONNECTION DETAILS, SEE CONCRETE BOX CULVERT DETAILS SHEET (PIPE BLOCKOUT DETAILS).
6. FOR CULVERT DATA TABLES, SEE CONCRETE BOX CULVERT DATA TABLE SHEET (S-212B AND S-212D).
7. FOR REINFORCING BAR LIST, SEE REINFORCING BAR LIST SHEETS (S-212B AND S-212D).

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CONCRETE BOX CULVERT DETAILS

S-212B AND S-212D

SHEET NO. 109

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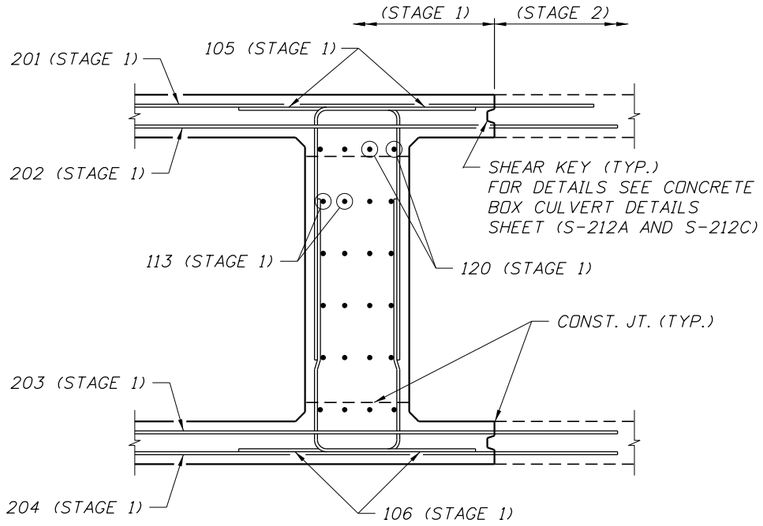
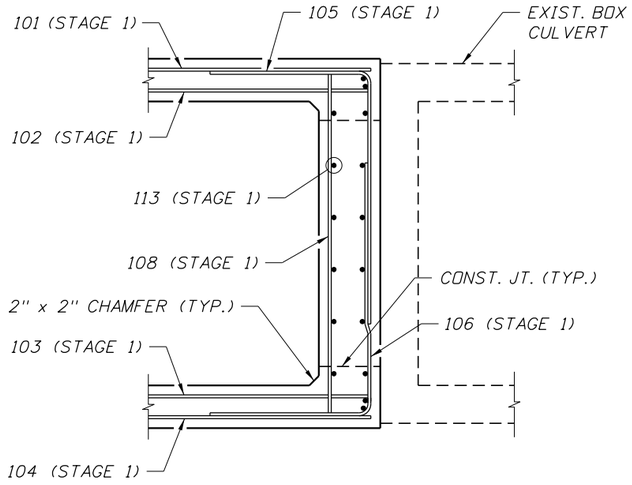


SECTION A-A



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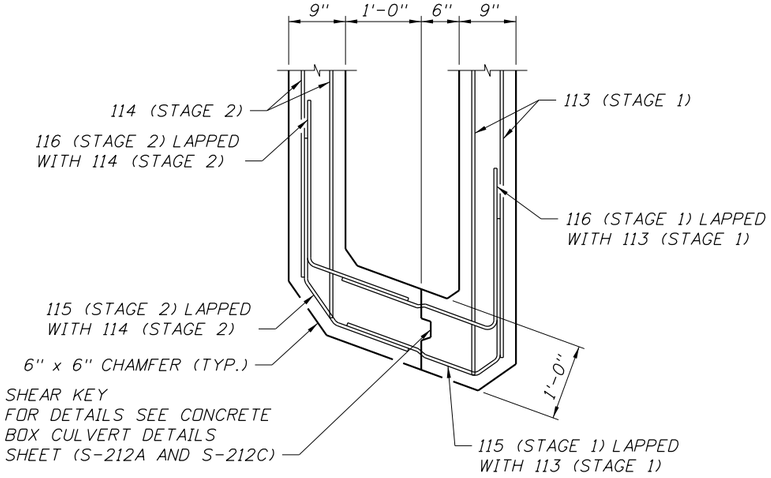
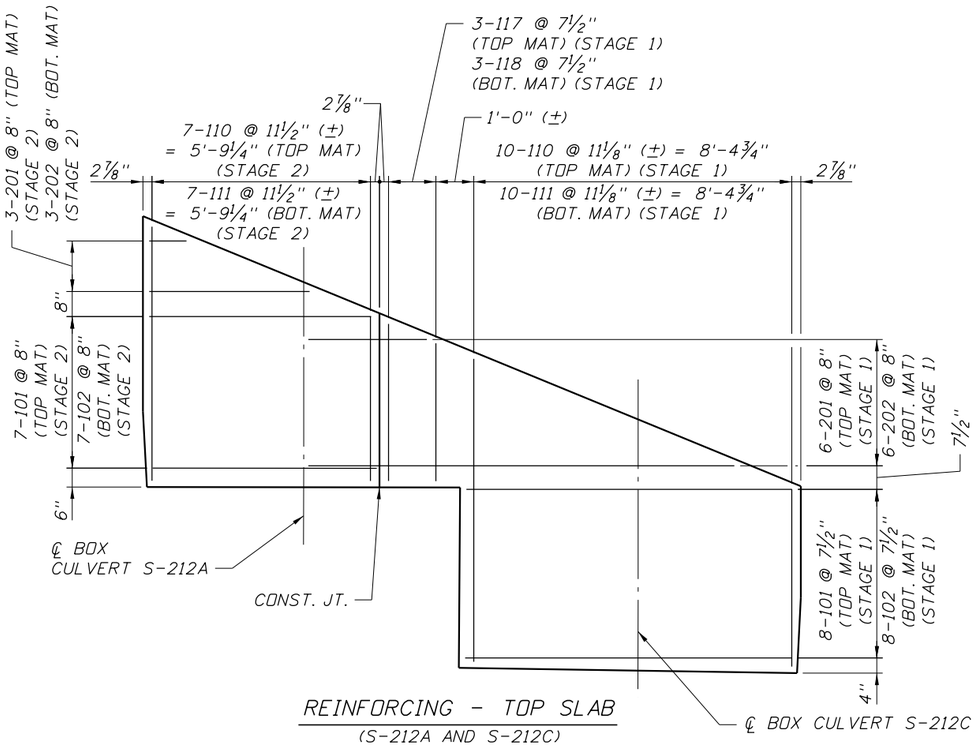
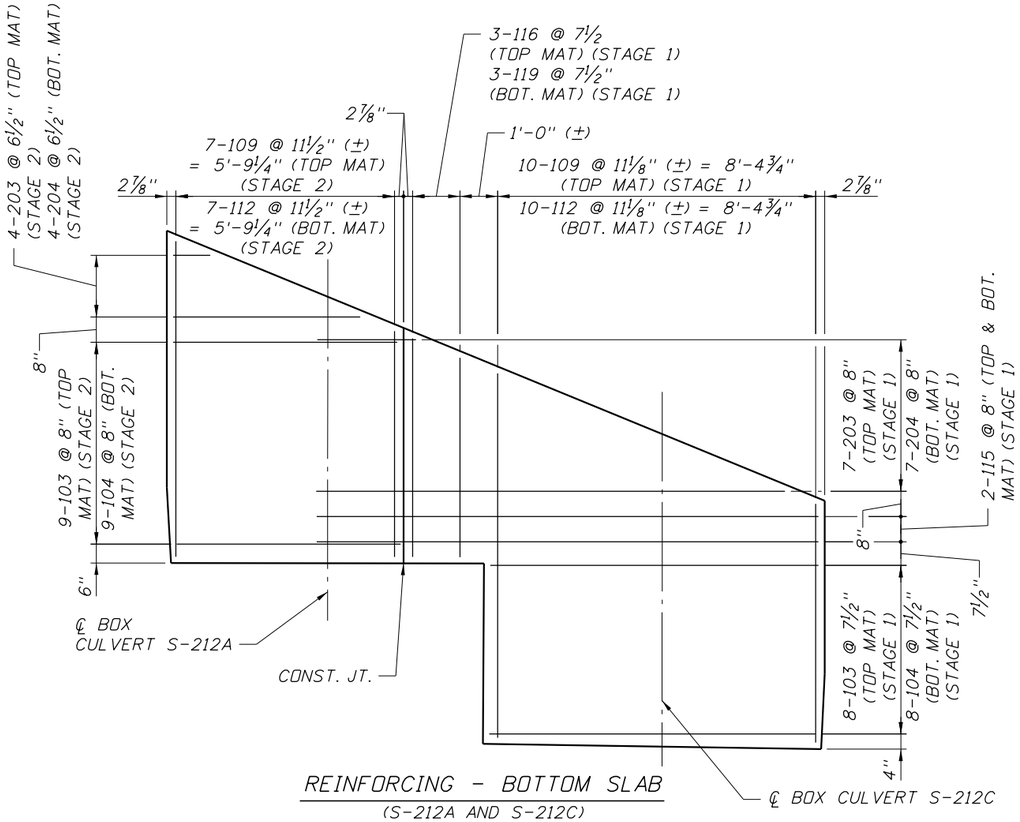


SECTION C-C



REINFORCING - TOP SLAB
(S-212A AND S-212C)



REINFORCING - BOTTOM SLAB
(S-212A AND S-212C)

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CONCRETE BOX CULVERT
REINFORCING DETAILS

S-212A, S-212B, S-212C, AND S-212D

SHEET NO. 110

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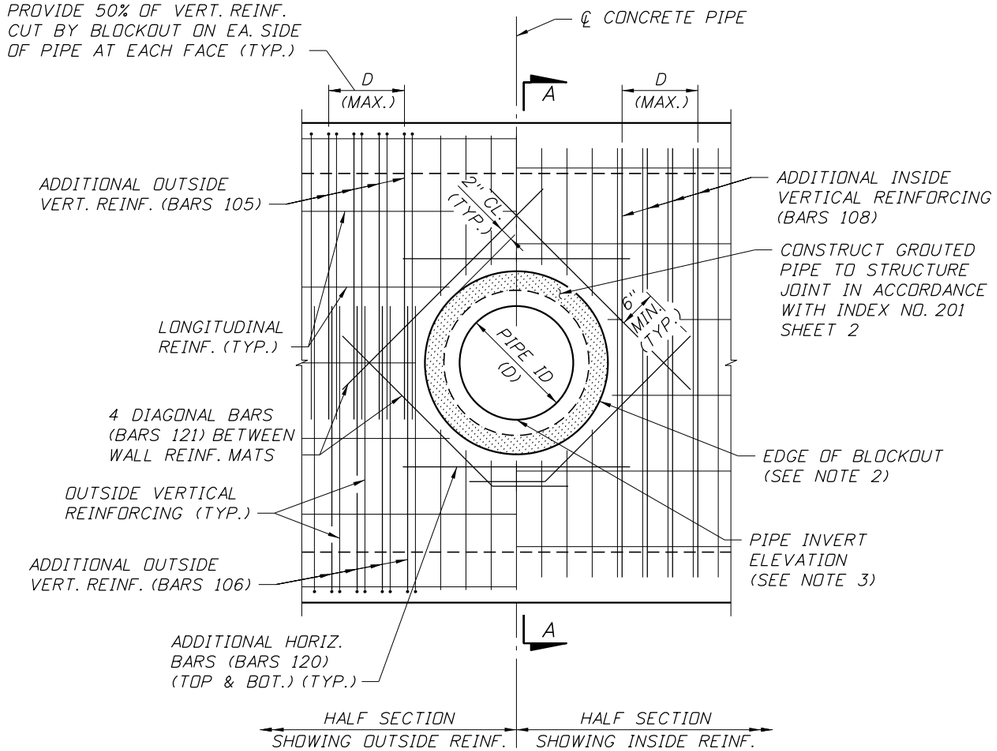
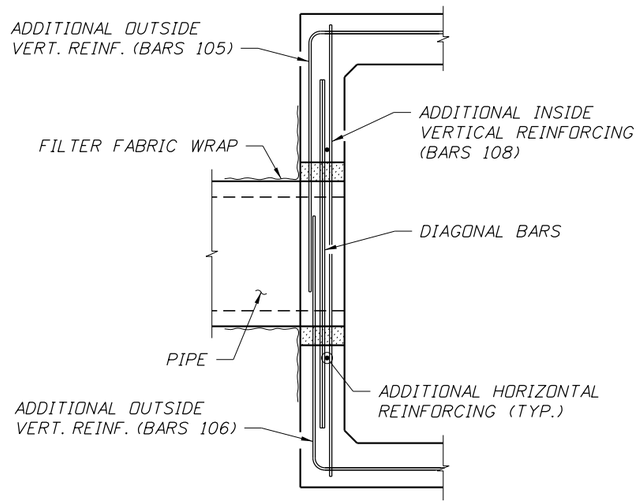


ELEVATION



SECTION A-A

(SHOWING ADDITIONAL BLOCKOUT REINFORCING ONLY)

PIPE BLOCKOUT DETAILS

PIPE BLOCKOUT NOTES:

1. CUT BOX CULVERT REINFORCEMENT AS REQUIRED TO MAINTAIN 2" COVER.
2. PIPE BLOCKOUT DIAMETER TO BE 6" GREATER THAN PIPE OUTSIDE DIAMETER.
3. SEE DRAINAGE PLANS FOR SIZE, PLACEMENT, AND INVERT ELEVATION.
4. FIELD BEND BOTTOM OF 2 DIAGONAL BARS (BARS 121).

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

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CONCRETE BOX CULVERT DETAILS

PIPE BLOCKOUT DETAILS

SHEET NO. III

BOX CULVERT DATA TABLES

BOX, HEADWALL AND CUTOFF WALL DATA TABLE (inches unless shown otherwise)																				
LOCATION	STRUCTURE NUMBER	BOX									HEADWALL AND CUTOFF WALL									
		Wc(ft)	Hc(ft)	Tt	Tw	Tb	Ti	#cells	Lc(ft)	Cover	Blhw	Hlhw	Brhw	Hrhw	Blcw	Hlcw	Brcw	Hrcw	SL(deg)	SR(deg)
592+01.15	S-212A	7	5	9	9	9	--	1	3.42	2	12	24	--	--	12	24	--	--	-22.3	-0.4
592+16.06	S-212C	7	5	9	9	9	22.5**	1	4.61	2	12	24	--	--	12	24	--	--	-22.3	0

** Ti DENOTES THE WALL BETWEEN S-212A AND S-212C

LEFT SIDE WINGWALLS DATA TABLE (inches unless shown otherwise)																		
STRUCTURE NUMBER	LEFT END WINGWALL									LEFT BEGIN WINGWALL								
	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
S-212A	--	--	--	--	--	--	--	--	--	12	10	24	10	150	8.95	2	7	20
S-212C	12	10	24	10	150	1.51	3.5	7	14	--	--	--	--	--	--	--	--	--

ESTIMATED CONCRETE QUANTITIES (CY)																					
STRUCTURE NUMBER	BOX								LEFT END WINGWALL			LEFT BEGIN WINGWALL			RIGHT END WINGWALL			RIGHT BEGIN WINGWALL			Culvert Total
	Left Cutoff Wall	Right Cutoff Wall	Bottom Slab	Walls	Top Slab	Left Head Wall	Right Head Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	
S-212A	0.31	--	1.31	1.00	1.02	0.31	--	3.95	--	--	--	3.23	2.78	6.01	--	--	--	--	--	--	9.96
S-212C	0.55	--	2.40	2.91	1.90	0.55	--	8.31	2.26	2.27	4.53	--	--	--	--	--	--	--	--	--	12.84

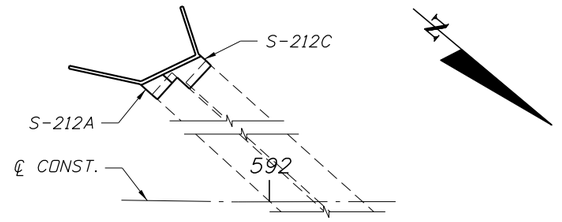
MAIN STEEL REINFORCEMENT SPACING (inches)																			
STRUCTURE NUMBER	BOX														HEADWALLS		CUTOFF WALLS	
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115, 116...	803	806	809	812
S-212A	8	8	8	8	8	8	--	12	*	*	*	*	12	12	*	12	--	12	--
S-212C	8	8	8	8	8	8	--	12	*	*	*	*	12	12	*	12	--	12	--

* SEE NOTE 7.

WINGWALL STEEL REINFORCEMENT SPACING (inches)																										
STRUCTURE NUMBER	LEFT END WINGWALL							LEFT BEGIN WINGWALL							RIGHT END WINGWALL							RIGHT BEGIN WINGWALL						
	401 407(8)	402 (403)	404 (405)	406	409	410	411	501 507(8)	502 (503)	504 (505)	506	509	510	511	601 607(8)	602 (603)	604 (605)	606	609	610	611	701 707(8)	702 (703)	704 (705)	706	709	710	711
S-212A	--	--	--	--	--	--	--	12	12	12	12	12	12	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S-212C	12	12	12	12	12	12	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WINGWALL NOTE: Bar designations in "( )" are only required for variable height wingwalls.

DIRECTION OF STATIONING



LOCATION PLAN

NOTES:

1. Environmental Classification: Moderately Aggressive.
2. Reinforcing Steel: ASTM A615 Grade 60.
3. Concrete Class IV, f'c = 5.5 ksi.
4. Soil Properties:
   Friction Angle: 30 degrees
   Modulus of Subgrade Reaction: 85 kcf
   Nominal Bearing Capacity: 3.2 ksf
5. Total Estimated Quantity of Reinforcing Steel:
   S-212A - 1187 lbs
   S-212C - 1867 lbs
6. Work this Drawing with Design Standards Index No. 289 and Details Pertaining to S-212A AND S-212C .
7. For location and spacing of Bars 109 thru 112 and 115 thru 120, see Concrete Box Culvert Reinforcing Details (S-212A, S-212B, S-212C, AND S-212D).

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REVISIONS

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FORT MYERS, FLORIDA 33901

EGILBERT

CONCRETE BOX CULVERT DATA TABLES
S-212A AND S-212C

SHEET NO. 112

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BOX CULVERT DATA TABLES

BOX, HEADWALL AND CUTOFF WALL DATA TABLE (inches unless shown otherwise)																				
LOCATION	STRUCTURE NUMBER	BOX									HEADWALL AND CUTOFF WALL									
		Wc(ft)	Hc(ft)	Tt	Tw	Tb	Ti	#cells	Lc(ft)	Cover	Blhw	Hlhw	Brhw	Hrhw	Blcw	Hlcw	Brcw	Hrcw	SL(deg)	SR(deg)
592+01.15	S-212B	7	5	9	9	9	--	1	43.85	2	--	--	12	24	--	--	12	24	1.9	-20.1
592+16.06	S-212D	7	5	9	9	9	--	1	43.40	2	--	--	12	24	--	--	12	24	2.1	-20.2

RIGHT SIDE WINGWALLS DATA TABLE (inches unless shown otherwise)																		
STRUCTURE NUMBER	RIGHT END WINGWALL									RIGHT BEGIN WINGWALL								
	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
S-212B	--	--	--	--	--	--	--	--	--	12	10	24	10	135	4.77	2.5	7	13
S-212D	12	10	24	10	135	10.25	4	7	8.5	--	--	--	--	--	--	--	--	--

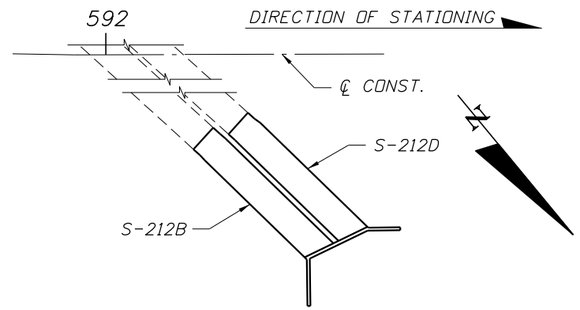
ESTIMATED CONCRETE QUANTITIES (CY)																				
STRUCTURE NUMBER	BOX								LEFT END WINGWALL			LEFT BEGIN WINGWALL			RIGHT END WINGWALL			RIGHT BEGIN WINGWALL			Culvert Total
	Left Cutoff Wall	Right Cutoff Wall	Bottom Slab	Walls	Top Slab	Left Head Wall	Right Head Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	
S-212B	--	0.47	11.40	13.17	10.97	--	0.47	36.48	--	--	--	--	--	--	--	--	--	2.10	1.91	4.01	40.49
S-212D	--	0.44	11.25	12.94	10.85	--	0.44	35.93	--	--	--	--	--	--	1.37	1.44	2.82	--	--	--	38.75

MAIN STEEL REINFORCEMENT SPACING (inches)																			
STRUCTURE NUMBER	BOX															HEADWALLS		CUTOFF WALLS	
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115, 116...	803	806	809	812
S-212B	8	8	8	8	8	8	--	12	12	12	12	12	12	12	*	--	12	--	12
S-212D	8	8	8	8	8	8	--	12	12	12	12	12	12	12	*	--	12	--	12

* SEE NOTE 7.

WINGWALL STEEL REINFORCEMENT SPACING (inches)																									
STRUCTURE NUMBER	LEFT END WINGWALL							LEFT BEGIN WINGWALL							RIGHT END WINGWALL							RIGHT BEGIN WINGWALL						
	401 407(8)	402 (403)	404 (405)	406	409	410	411	501 507(8)	502 (503)	504 (505)	506	509	510	511	601 607(8)	602 (603)	604 (605)	606	609	610	611	701 707(8)	702 (703)	704 (705)	706	709	710	711
S-212B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	12	12	12	12	12	12
S-212D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	12	12	12	12	12	12	--	--	--	--	--	--	--

WINGWALL NOTE: Bar designations in "( )" are only required for variable height wingwalls.



LOCATION PLAN

NOTES:

1. Environmental Classification: Moderately Aggressive.
2. Reinforcing Steel: ASTM A615 Grade 60.
3. Concrete Class IV, f'c = 5.5 ksi.
4. Soil Properties:
   Friction Angle: 30 degrees
   Modulus of Subgrade Reaction: 85 kcf
   Nominal Bearing Capacity: 3.2 ksf
5. Total Estimated Quantity of Reinforcing Steel:
   S-212B - 7097 lbs
   S-212D - 6959 lbs
6. Work this Drawing with Design Standards Index No. 289 and Details Pertaining to S-212B AND S-212D.
7. For location and spacing of Bars 115 and 116, see Concrete Box Culvert Reinforcing Details (S-212A, S-212B, S-212C, And S-212D).

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT of TRANSPORTATION

EGILBERT

CONCRETE BOX CULVERT DATA TABLES
S-212B AND S-212D

SHEET NO. 113

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MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-212A															(NO. REQUIRED = 1)	
4	101	5-11	7	1			5-11									
4	201	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		4- 3	3				4- 3									
5	102	5-11	7	1			5-11									
5	202	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		4- 3	3				4- 3									
5	103	5-11	9	1			5-11									
5	203	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		5- 0	4				4-11 1/2									
5	104	5-11	9	1			5-11									
5	204	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		5- 0	4				4-11 1/2									
5	105	7- 4	10	10			2-10	4- 6								
5	106	7- 4	10	10			2-10	4- 6								
4	108	6- 2	8	1			6- 2									
4	109	VARIES	1	1			VARIES									
		6- 0	SET				5-11 3/4									
		TO	OF				TO									
		8- 4	7				8- 4									
4	110	VARIES	1	1			VARIES									
		4- 5	SET				4- 4 1/4									
		TO	OF				TO									
		6- 9	7				6- 8 1/2									
4	111	VARIES	1	1			VARIES									
		4- 0	SET				4- 0									
		TO	OF				TO									
		6- 5	7				6- 4 1/4									
4	112	VARIES	1	1			VARIES									
		6- 0	SET				5-11 3/4									
		TO	OF				TO									
		8- 4	7				8- 4									
4	113	6- 6	10	1			6- 6									

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Chester A. Smith III, P.E.
P.E. License Number 70756
HDR Engineering, Inc.
5426 Bay Center Drive, Suite 400
Tampa, FL 33609-3444
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

REINFORCING BAR LIST

S-212A (1 OF 2)

SHEET NO. 114

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
LEFT BEGIN WINGWALL															(NO. REQUIRED = 1)	
4	501	VARIES	1	1			VARIES									
		2- 0	SET				1-11 1/2									
		TO	OF				TO									
		6- 9	20				6- 8 1/2									
4	502	19- 4	2	1			19- 4									
4	503	VARIES	1	1			VARIES									
		2- 4	SET				2- 3 3/4									
		TO	OF				TO									
		18- 4	5				18- 3 3/4									
4	504	19- 4	2	1			19- 4									
4	505	VARIES	1	1			VARIES									
		2- 4	SET				2- 3 3/4									
		TO	OF				TO									
		18- 4	5				18- 3 3/4									
4	506	VARIES	1	1			VARIES									
		2- 0	SET				1-11 1/2									
		TO	OF				TO									
		6- 9	20				6- 8 1/2									
4	507	3-11	20	10			2- 5	1- 6								
4	509	3- 6	20	1			3- 6									
4	510	3- 6	20	1			3- 6									
4	511	19- 8	10	1			19- 8									
5	512	2- 0	12	1			2- 0									
LEFT HEADWALL															(NO. REQUIRED = 1)	
4	801	6- 5	2	1			6- 4 3/4									
4	802	6- 5	2	1			6- 4 3/4									
4	803	5- 0	7	27			1- 7 1/4	0- 8		0- 4	1- 3 1/4	0- 8	0- 8			
LEFT CUTOFF WALL															(NO. REQUIRED = 1)	
4	807	6- 5	2	1			6- 4 3/4									
4	808	6- 5	2	1			6- 4 3/4									
4	809	5- 1	7	7			1- 7 1/4	0- 8	0- 7	0- 7						

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

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of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
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EGILBERT

REINFORCING BAR LIST

S-212A (2 OF 2)

SHEET NO.
115

9/19/2016 11:11:43 AM PW:\202116\0000000053055\V3.00_CAD\Homestead\struct\BlRebarList08.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-212C															(NO. REQUIRED = 1)	
4	101	8- 5	8	1			8- 5									
4	201	VARIES	1	1			VARIES									
		3- 4	SET				3- 3 3/4									
		TO	OF				TO									
		11- 6	6				11- 5 1/4									
5	102	8- 5	8	1			8- 5									
5	202	VARIES	1	1			VARIES									
		3- 9	SET				3- 8 3/4									
		TO	OF				TO									
		11-11	6				11-10 1/4									
5	103	8- 5	8	1			8- 5									
5	203	VARIES	1	1			VARIES									
		2-10	SET				2- 9 1/2									
		TO	OF				TO									
		12- 7	7				12- 6 3/4									
5	104	8- 5	8	1			8- 5									
5	204	VARIES	1	1			VARIES									
		2-10	SET				2- 9 1/2									
		TO	OF				TO									
		12- 7	7				12- 6 3/4									
5	105	7- 4	28	10			2-10	4- 6								
5	106	7- 4	28	10			2-10	4- 6								
4	108	6- 2	10	1			6- 2									
4	109	VARIES	1	1			VARIES									
		6- 3	SET				6- 3									
		TO	OF				TO									
		9- 8	10				9- 8									
4	110	VARIES	1	1			VARIES									
		4- 8	SET				4- 7 1/2									
		TO	OF				TO									
		8- 1	10				8- 0 1/2									
4	111	VARIES	1	1			VARIES									
		4- 4	SET				4- 3 1/4									
		TO	OF				TO									
		7- 9	10				7- 8 1/4									
4	112	VARIES	1	1			VARIES									
		6- 3	SET				6- 3									
		TO	OF				TO									
		9- 8	10				9- 8									
4	113	7- 9	10	1			7- 8 1/2									
4	114	4- 7	10	1			4- 6 1/4									
5	115	13- 3	4	1			13- 3									
4	116	VARIES	1	1			VARIES									
		5- 3	SET				5- 3									
		TO	OF				TO									
		5-10	3				5- 9 1/4									
4	117	VARIES	1	1			VARIES									
		3- 8	SET				3- 7 3/4									
		TO	OF				TO									
		4- 2	3				4- 1 3/4									
4	118	VARIES	1	1			VARIES									
		3- 4	SET				3- 3 1/4									
		TO	OF				TO									
		3-10	3				3- 9 1/2									

NOTE:

FOR BAR BENDING DETAILS, SEE INDEX NO. 21300.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Chester A. Smith III, P.E.
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Certificate of Authorization 4213

PUBLIC WORKS
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of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
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REINFORCING BAR LIST

S-212C (1 OF 2)

SHEET NO. 116

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-212C (CONT.)															(NO. REQUIRED = 1)	
4	119	VARIES	1	1			VARIES									
		5- 3	SET				5- 3									
		TO	OF				TO									
		5-10	3				5- 9 1/4									
4	120	3- 4	10	1			3- 4									
LEFT END WINGWALL															(NO. REQUIRED = 1)	
4	401	VARIES	1	1			VARIES									
		3- 6	SET				3- 5 1/2									
		TO	OF				TO									
		6- 9	14				6- 8 1/2									
4	402	13- 8	4	1			13- 8									
4	403	VARIES	1	1			VARIES									
		2- 4	SET				2- 3 3/4									
		TO	OF				TO									
		10- 4	3				10- 3 3/4									
4	404	13- 8	4	1			13- 8									
4	405	VARIES	1	1			VARIES									
		2- 4	SET				2- 3 3/4									
		TO	OF				TO									
		10- 4	3				10- 3 3/4									
4	406	VARIES	1	1			VARIES									
		3- 6	SET				3- 5 1/2									
		TO	OF				TO									
		6- 9	14				6- 8 1/2									
4	407	3-11	14	10			2- 5	1- 6								
4	409	3- 6	14	1			3- 6									
4	410	3- 6	14	1			3- 6									
4	411	13- 8	10	1			13- 8									
5	412	2- 0	12	1			2- 0									
LEFT HEADWALL															(NO. REQUIRED = 1)	
4	801	14- 5	2	1			14- 4 3/4									
4	802	13- 9	2	1			13- 8 3/4									
4	803	5- 0	12	27			1- 7 1/4	0- 8		0- 4	1- 3 1/4	0- 8	0- 8			
LEFT CUTOFF WALL															(NO. REQUIRED = 1)	
4	807	14- 5	2	1			14- 4 3/4									
4	808	13- 9	2	1			13- 8 3/4									
4	809	5- 1	12	7			1- 7 1/4	0- 8	0- 7	0- 7						

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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REVISIONS					
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Certificate of Authorization 4213

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REINFORCING BAR LIST

S-212C (2 OF 2)

SHEET NO. 117

EGILBERT 9/19/2016 11:12:02 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\struct\BIRebarLIst06.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-212B															(NO. REQUIRED = 1)	
4	101	8- 2	68	1			8- 2									
4	301	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		5-11	4				5-10 1/2									
5	102	8- 2	68	1			8- 2									
5	302	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		5-11	4				5-10 1/2									
5	103	8- 2	71	1			8- 2									
5	303	VARIES	1	1			VARIES									
		1- 2	SET				1- 1 1/2									
		TO	OF				TO									
		4-10	3				4- 9 1/4									
5	104	8- 2	71	1			8- 2									
5	304	VARIES	1	1			VARIES									
		1- 2	SET				1- 1 1/2									
		TO	OF				TO									
		4-10	3				4- 9 1/4									
5	105	7- 4	140	10			2-10	4- 6								
5	106	7- 4	140	10			2-10	4- 6								
4	108	6- 2	93	1			6- 2									
4	109	VARIES	1	1			VARIES									
		46- 0	SET				45-11 3/4									
		TO	OF				TO									
		48-11	10				48-11									
4	110	VARIES	1	1			VARIES									
		44- 5	SET				44- 4 1/4									
		TO	OF				TO									
		47- 4	10				47- 3 3/4									
4	111	VARIES	1	1			VARIES									
		44- 1	SET				44- 0 1/4									
		TO	OF				TO									
		47- 0	10				46-11 1/2									
4	112	VARIES	1	1			VARIES									
		46- 0	SET				45-11 3/4									
		TO	OF				TO									
		48-11	10				48-11									
4	113	44- 4	10	1			44- 3 1/2									
4	114	47- 5	10	1			47- 4 3/4									
4	115	3- 7	5	13			0- 8 1/2	1- 1	1- 9						35	35
4	116	3- 0	5	12			1- 6	1- 6								70

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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Tampa, FL 33609-3444
Certificate of Authorization 4213

PUBLIC WORKS
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TRANSPORTATION

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(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

EGILBERT

REINFORCING BAR LIST

S-212B (1 OF 2)

SHEET NO.
118

9/19/2016 11:12:11 AM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\struct\BIRebarLIst03.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
RIGHT BEGIN WINGWALL															(NO. REQUIRED = 1)	
4	701	VARIES	1	1			VARIES									
		2- 6	SET				2- 6									
		TO	OF				TO									
		6- 8	13				6- 7 3/4									
4	702	12- 8	3	1			12- 8									
4	703	VARIES	1	1			VARIES									
		1- 8	SET				1- 7 1/4									
		TO	OF				TO									
		10- 4	4				10- 3 1/4									
4	704	12- 8	3	1			12- 8									
4	705	VARIES	1	1			VARIES									
		1- 8	SET				1- 7 1/4									
		TO	OF				TO									
		10- 4	4				10- 3 1/4									
4	706	VARIES	1	1			VARIES									
		2- 6	SET				2- 6									
		TO	OF				TO									
		6- 8	13				6- 7 3/4									
4	707	3-11	13	10			2- 5	1- 6								
4	709	3- 6	13	1			3- 6									
4	710	3- 6	13	1			3- 6									
4	711	12- 8	10	1			12- 8									
5	712	2- 0	12	1			2- 0									
RIGHT HEADWALL															(NO. REQUIRED = 1)	
4	804	9-10	2	1			9- 9 1/4									
4	805	9-10	2	1			9- 9 1/4									
4	806	5- 0	11	27			1- 7 1/4	0- 8		0- 4	1- 3 1/4	0- 8	0- 8			
RIGHT CUTOFF WALL															(NO. REQUIRED = 1)	
4	810	9-10	2	1			9- 9 1/4									
4	811	9-10	2	1			9- 9 1/4									
4	812	5- 1	11	7			1- 7 1/4	0- 8	0- 7	0- 7						

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

EGILBERT

REINFORCING BAR LIST

S-212B (2 OF 2)

SHEET NO.
119

9/19/2016 11:12:20 AM PW:\202116\0000000053055\V3.00_CAD\Homestead\struct\BlRebarList04.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-212D															(NO. REQUIRED = 1)	
4	101	8- 2	68	1			8- 2									
4	301	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		4- 8	3				4- 7 1/2									
5	102	8- 2	68	1			8- 2									
5	302	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		4- 8	3				4- 7 1/2									
5	103	8- 2	70	1			8- 2									
5	303	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		5- 4	4				5- 4									
5	104	8- 2	70	1			8- 2									
5	304	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		5- 4	4				5- 4									
5	105	7- 4	139	10			2-10	4- 6								
5	106	7- 4	139	10			2-10	4- 6								
4	108	6- 2	93	1			6- 2									
4	109	VARIES	1	1			VARIES									
		45- 6	SET				45- 6									
		TO	OF				TO									
		48- 6	10				48- 5 1/2									
4	110	VARIES	1	1			VARIES									
		43-11	SET				43-11									
		TO	OF				TO									
		46-11	10				46-10 1/4									
4	111	VARIES	1	1			VARIES									
		43- 7	SET				43- 6 3/4									
		TO	OF				TO									
		46- 6	10				46- 6									
4	112	VARIES	1	1			VARIES									
		45- 6	SET				45- 6									
		TO	OF				TO									
		48- 6	10				48- 5 1/2									
4	113	43-10	10	1			43- 9 3/4									
4	114	47- 0	10	1			46-11 1/2									
4	115	4- 1	5	13			0- 4 3/4	1-10	1-10						55	55
4	116	4- 4	5	14			2- 2	2- 2								70

NOTE:

FOR BAR BENDING DETAILS,
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REVISIONS

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PUBLIC WORKS
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REINFORCING BAR LIST

S-212D (1 OF 2)

SHEET NO. 120

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
RIGHT END WINGWALL															(NO. REQUIRED = 1)	
4	601	VARIES	1	1			VARIES									
		4- 0	SET				4- 0									
		TO	OF				TO									
		6- 8	9				6- 7 3/4									
4	602	8- 2	4	1			8- 2									
4	603	VARIES	1	1			VARIES									
		1- 7	SET				1- 7									
		TO	OF				TO									
		7- 3	3				7- 3									
4	604	8- 2	4	1			8- 2									
4	605	VARIES	1	1			VARIES									
		1- 7	SET				1- 7									
		TO	OF				TO									
		7- 3	3				7- 3									
4	606	VARIES	1	1			VARIES									
		4- 0	SET				4- 0									
		TO	OF				TO									
		6- 8	9				6- 7 3/4									
4	607	3-11	9	10			2- 5	1- 6								
4	609	3- 6	9	1			3- 6									
4	610	3- 6	9	1			3- 6									
4	611	8- 2	10	1			8- 2									
5	612	2- 0	12	1			2- 0									
RIGHT HEADWALL															(NO. REQUIRED = 1)	
4	804	12- 0	2	1			12- 0									
4	805	11- 4	2	1			11- 4									
4	806	5- 0	10	27			1- 7 1/4	0- 8		0- 4	1- 3 1/4	0- 8	0- 8			
RIGHT CUTOFF WALL															(NO. REQUIRED = 1)	
4	810	12- 0	2	1			12- 0									
4	811	11- 4	2	1			11- 4									
4	812	5- 1	10	7			1- 7 1/4	0- 8	0- 7	0- 7						

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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REVISIONS					
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1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

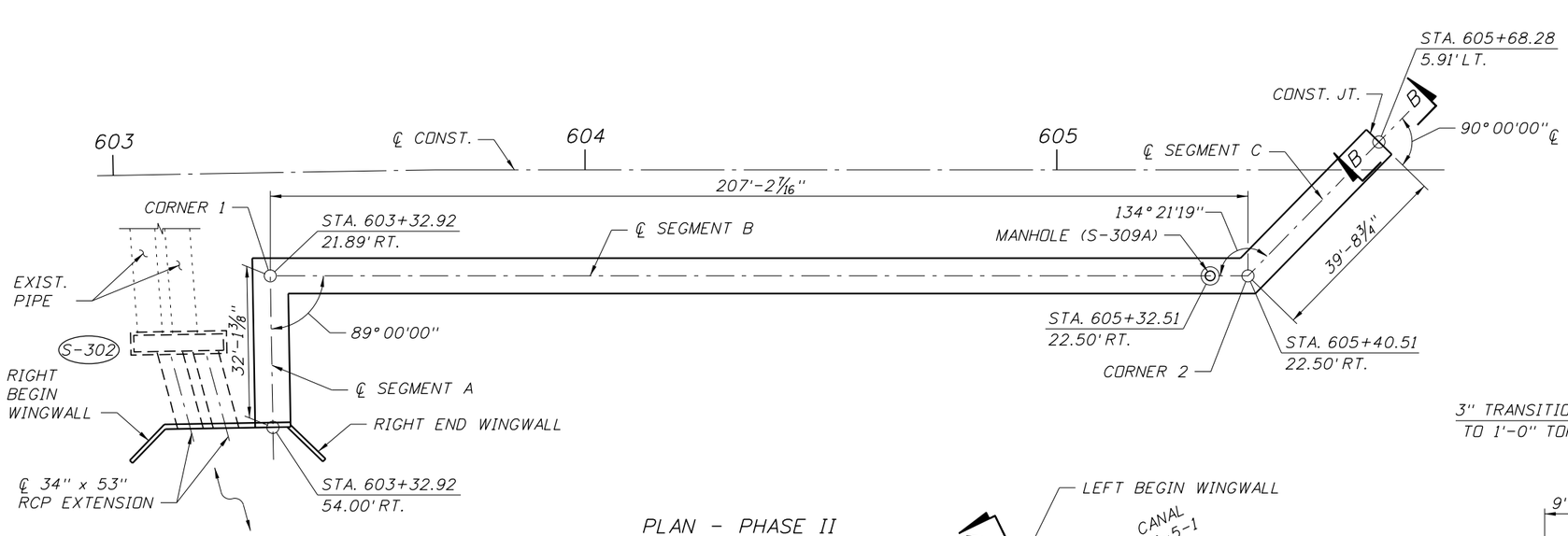
EGILBERT

9/19/2016 11:12:39 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\struct\BlRebarLIst02.dgn

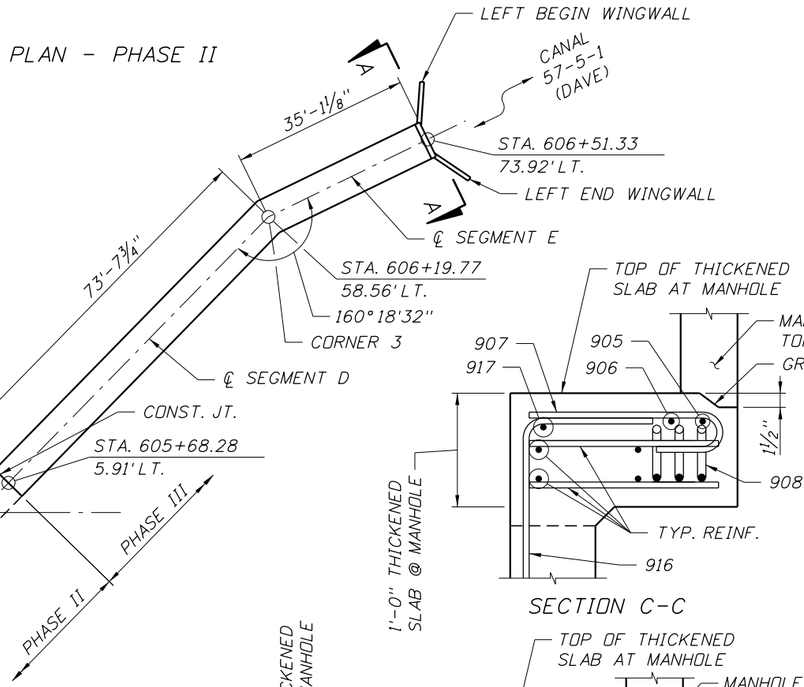
REINFORCING BAR LIST

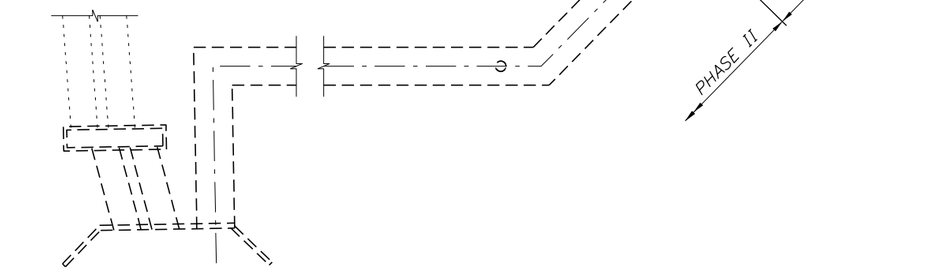
S-212D (2 OF 2)

SHEET NO.
121

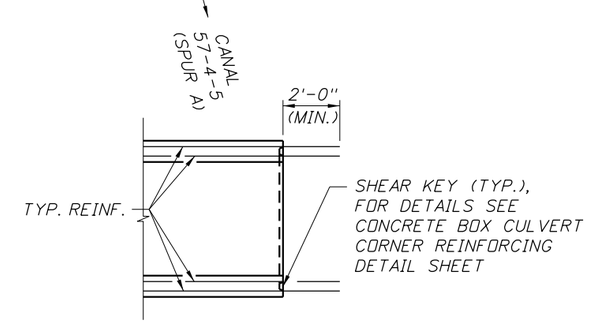


PLAN - PHASE II

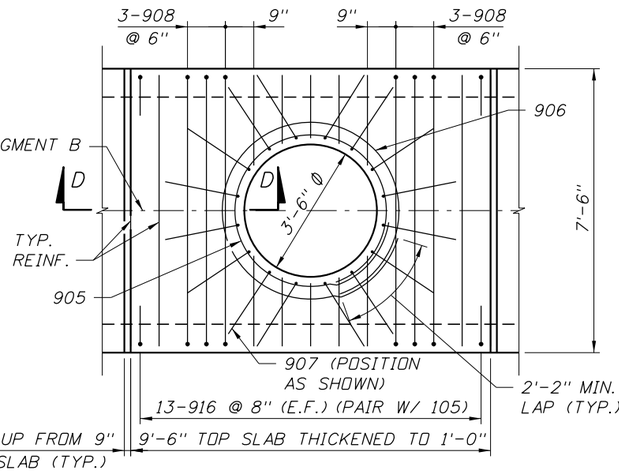




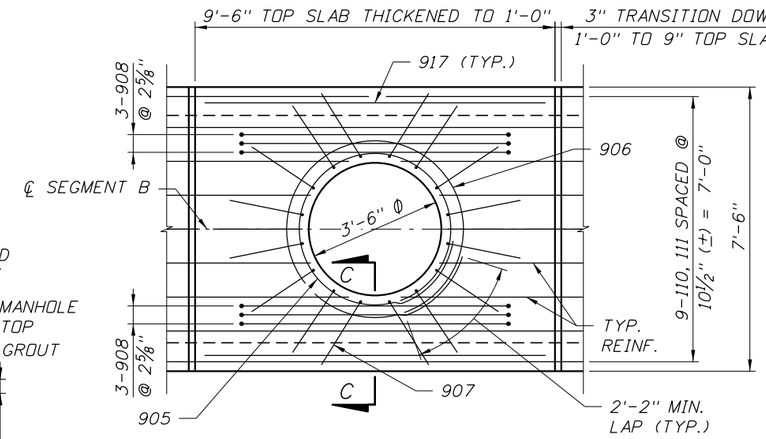
PLAN - PHASE III



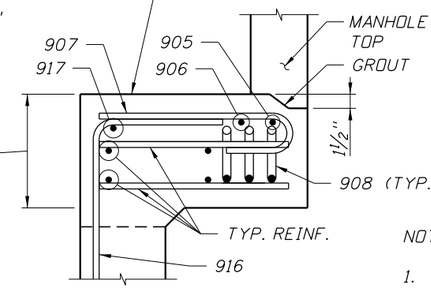
SECTION B-B
(LONGITUDINAL REINF. IN TOP & BOT. SLAB SHOWN ONLY)



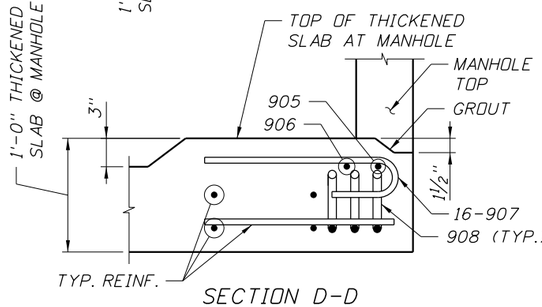
REINFORCING DETAILS AT MANHOLE S-309A
(TRANSVERSE REBAR IN BOTTOM MAT OF TOP SLAB)



REINFORCING DETAILS AT MANHOLE S-309A
(LONGITUDINAL REBAR IN BOTTOM MAT OF TOP SLAB)



SECTION C-C



SECTION D-D

NOTES:

1. SEE HEADWALL DETAIL SHEETS (S-309) FOR MORE INFORMATION AT CANAL 57-4-5 (SPUR A)
2. SEE INDEX 201 AND DRAINAGE PLANS FOR MORE MANHOLE DETAILS.
3. SEE DRAINAGE PLANS FOR DETAILS OF 34" x 53" RCP EXTENSION.
4. FOR BOX CULVERT DATA TABLES SEE CONCRETE BOX CULVERT DATA TABLE SHEETS (S-309).
5. FOR BOX CULVERT REINFORCING DETAILS SEE REINFORCING BAR LIST SHEETS.
6. FOR CORNER REINFORCING DETAILS AND VIEW A-A SEE CONCRETE BOX CULVERT CORNER REINFORCING DETAIL SHEET.
7. CUT OR BEND BOX CULVERT REINFORCING STEEL AS REQUIRED TO MAINTAIN 2" COVER AROUND MANHOLE OPENING.
8. BOX CULVERT TRANSVERSE REINFORCEMENT NEAR MANHOLE SHALL BE ADJUSTED ACCORDING TO DETAILS SHOWN ON THIS SHEET.
9. REFER TO INDEX 289 FOR BOX CULVERT DETAILS UNLESS NOTED ON PLANS.

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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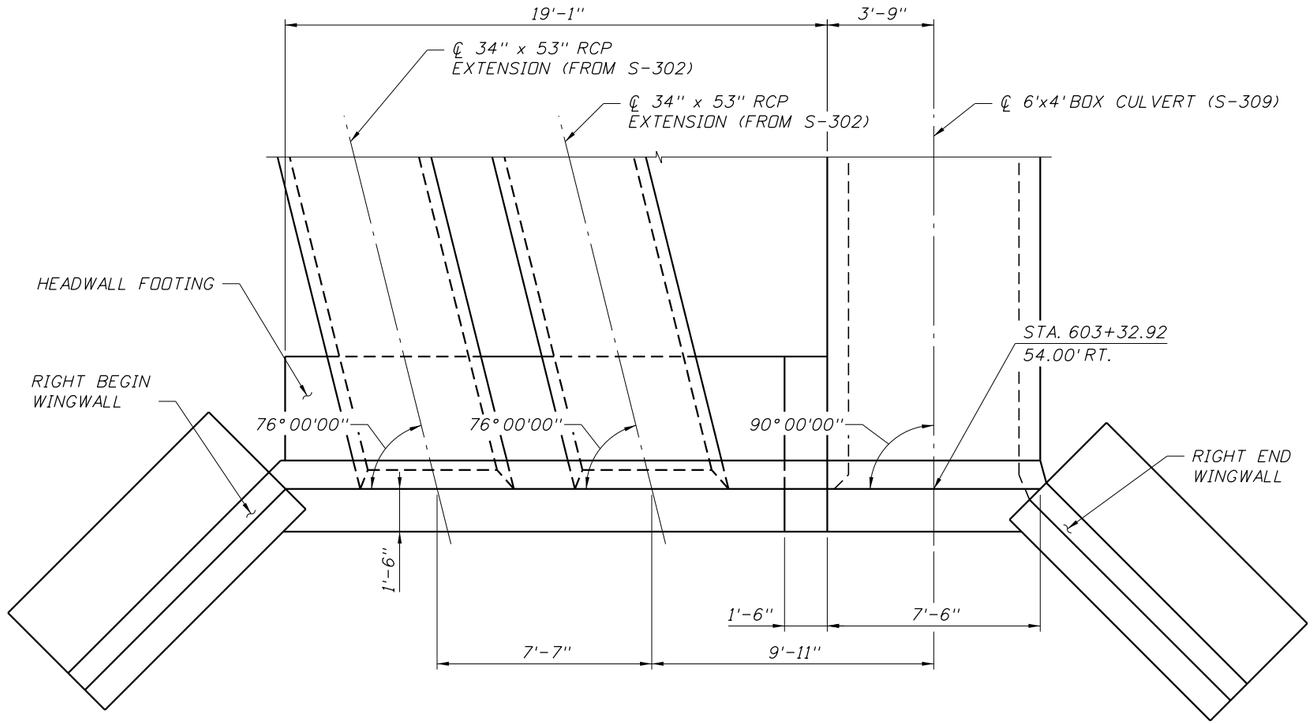
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

EGILBERT

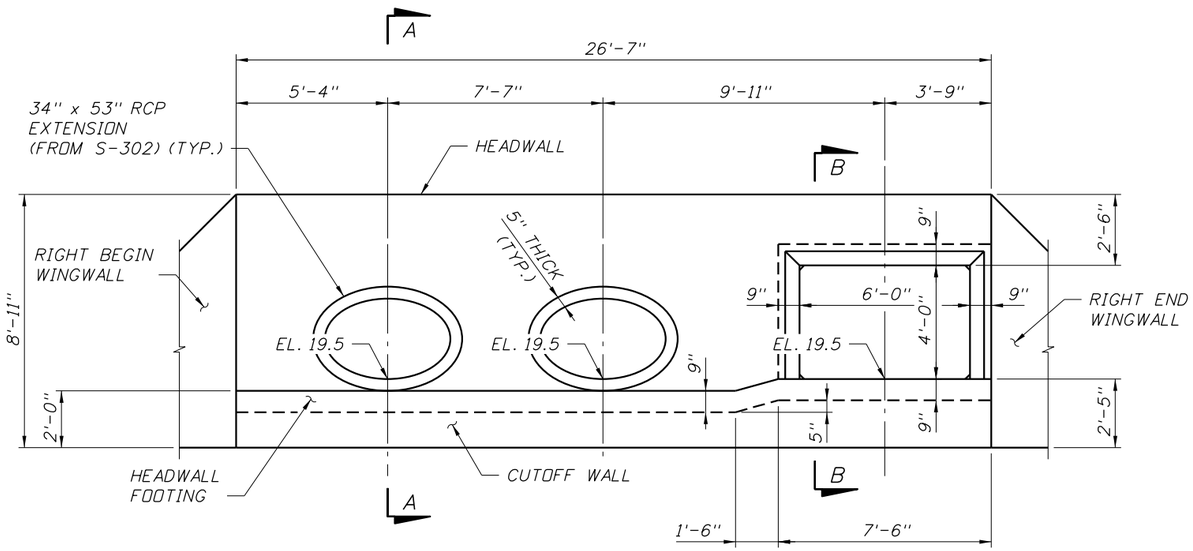
CONCRETE BOX CULVERT S-309
PLAN AND MANHOLE REINFORCING DETAILS

SHEET NO. 122

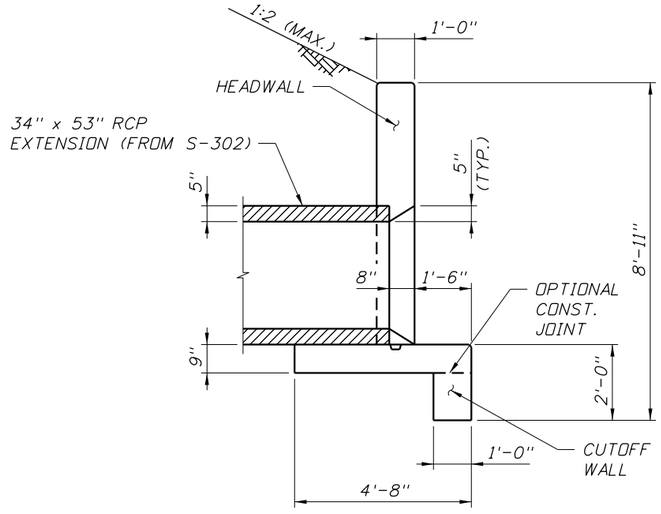
9/19/2016 11:12:50 AM PW:\2021\6\00000000053055\3.00_CAD\Homestead\struct\BIMiscStrCivt06.dgn



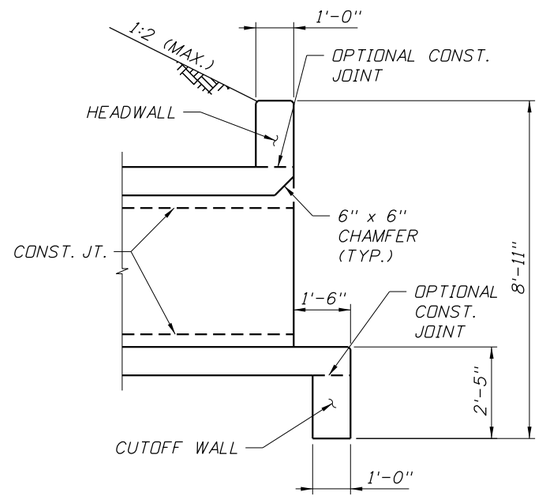
PLAN



ELEVATION



SECTION A-A



SECTION B-B

NOTES:

1. STATION AND OFFSET SHOWN ON THIS SHEET ARE ALONG ℄ CONST. OF HOMESTEAD ROAD.
2. FOR MORE DETAILS OF BOX CULVERT SEE CONCRETE BOX CULVERT (S-309) SHEET .
3. CHAMFER: ALL EXPOSED EDGES AND CORNERS TO BE CHAMFERED ¾" UNLESS OTHERWISE SHOWN.
4. FOR BOX CULVERT DATA TABLES SEE CONCRETE BOX CULVERT DATA TABLE SHEETS (S-309).
5. FOR REINFORCING DETAILS SEE REINFORCING BAR LIST SHEETS (S-309).
6. SEE INDEX 289 FOR WINGWALL DETAILS.

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DEPARTMENT of TRANSPORTATION

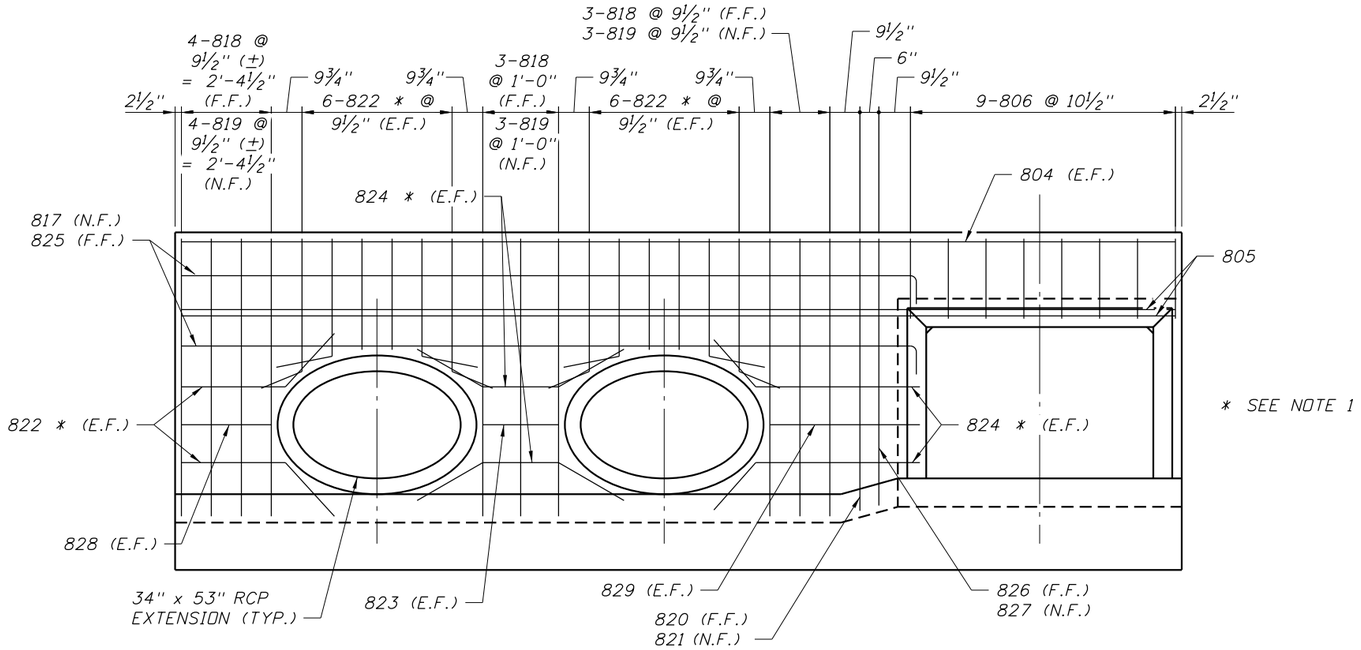
EGILBERT

HEADWALL DETAILS (1 OF 2)

S-309 (SEGMENT A, PHASE II)

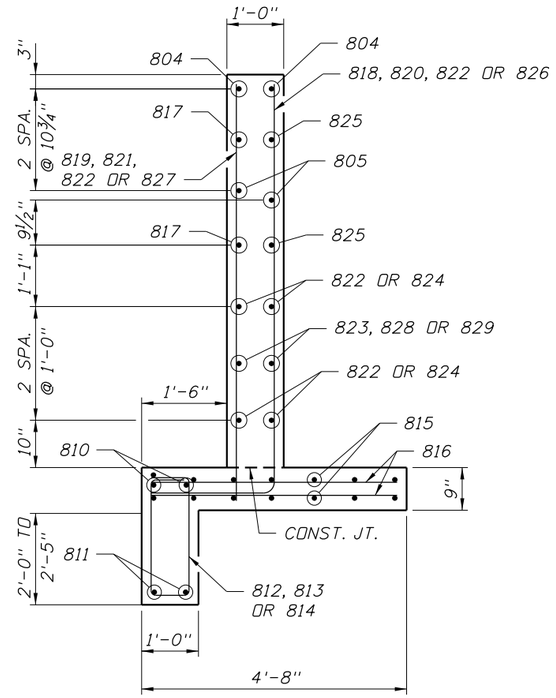
SHEET NO. 123

9/19/2016 11:13:00 AM P:\2021\6\000000000053055\V3.00_CAD\Homestead\struct\BIMiscStr02.dgn

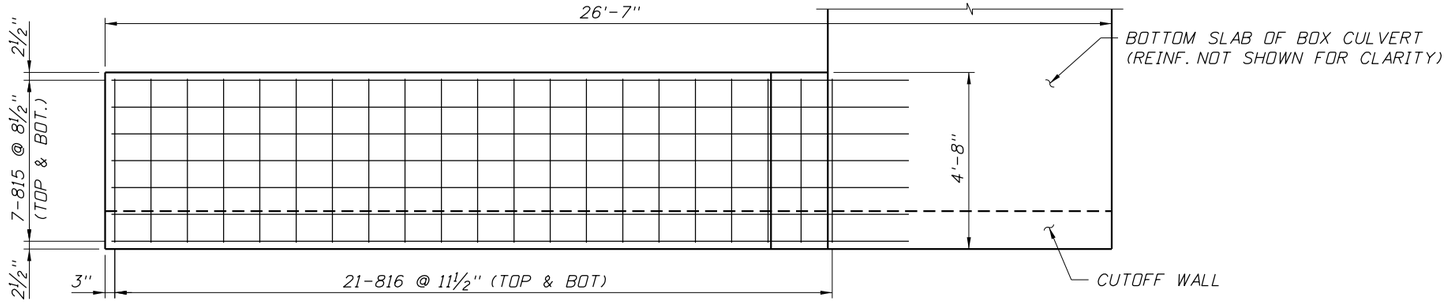


* SEE NOTE 1

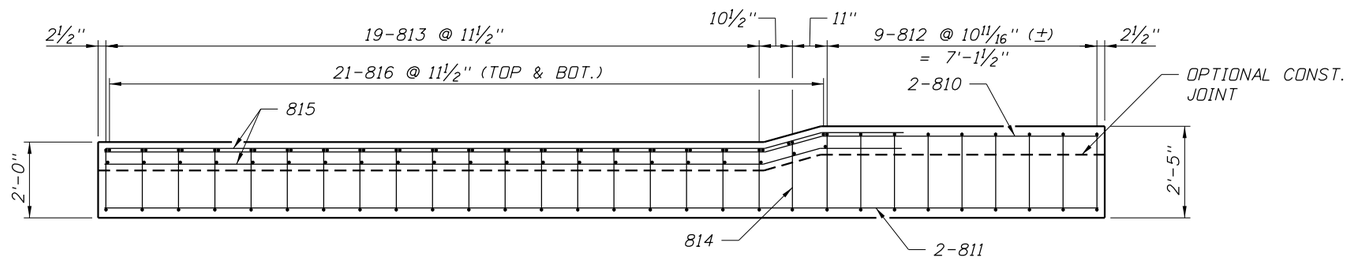
HEADWALL REBAR DETAILS



TYPICAL SECTION THRU ENDWALL



PLAN
HEADWALL FOOTING



CUTOFF WALL ELEVATION

NOTES:

1. FIELD BEND OR FIELD CUT BARS AS NECCESARY.
2. FOR ADDITIONAL NOTES, SEE HEADWALL DETAIL SHEET 1 OF 2.
3. MINIMUM LAP: NO. 4 = 1'-9"
   NO. 5 = 2'-2".

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REVISIONS					
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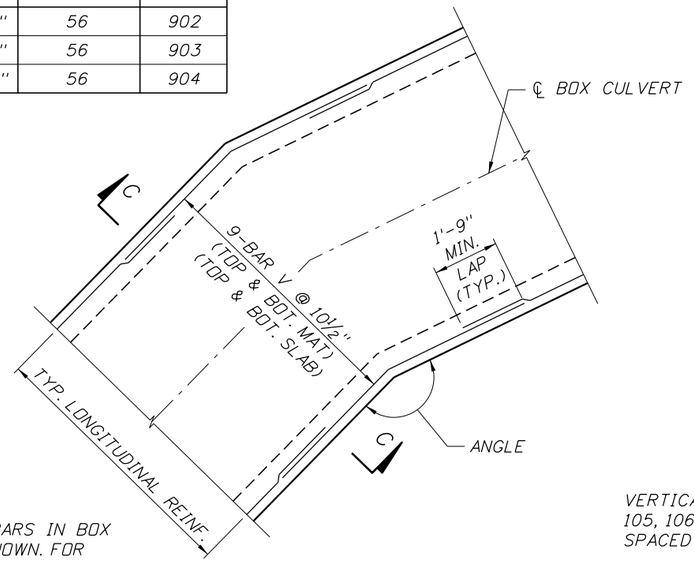
DEPARTMENT of TRANSPORTATION
EGILBERT

HEADWALL DETAILS (2 OF 2)

S-309 (SEGMENT A, PHASE II)

SHEET NO. 124

LOCATION	ANGLE	TOTAL BARS	BAR V
CORNER 1	89°00'00"	56	902
CORNER 2	134°21'19"	56	903
CORNER 3	160°18'32"	56	904

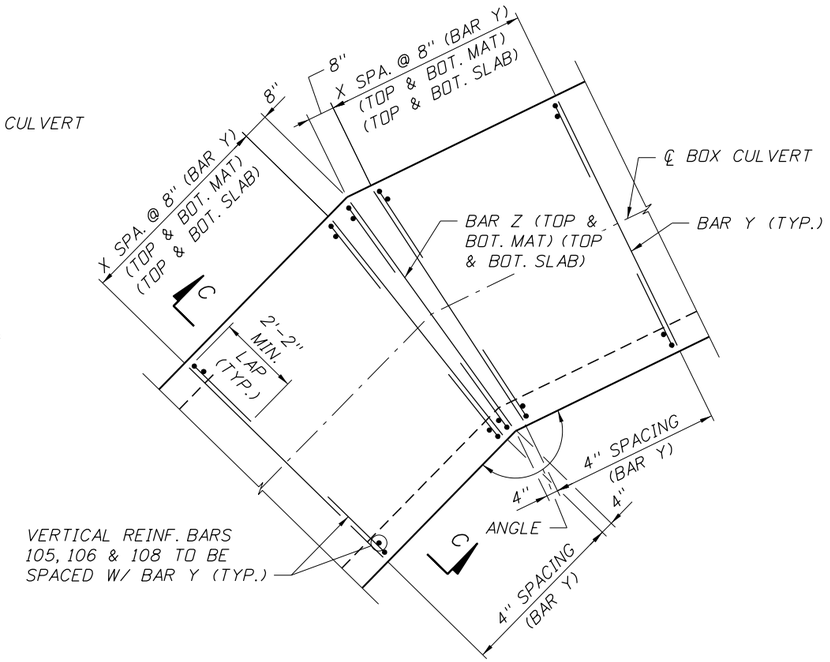


NOTE:

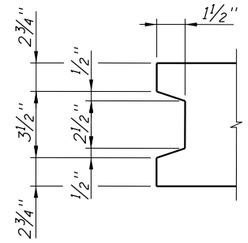
LONGITUDINAL CORNER BARS IN BOX CULVERT WALLS NOT SHOWN. FOR LOCATION AND NO. OF BARS, SEE SECTION C-C.

PLAN - CORNER REINFORCING DETAILS
(LONGITUDINAL REINFORCEMENT)

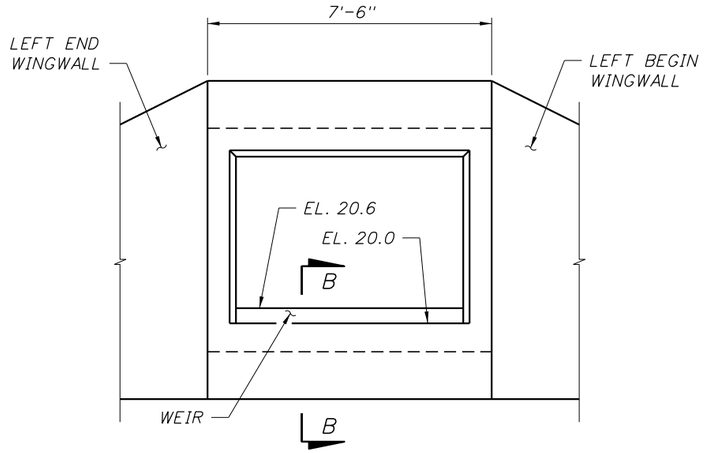
LOCATION	ANGLE	X SPA.	BAR Y	BAR Z
CORNER 1	89°00'00"	21	901	913
CORNER 2	134°21'19"	8	911	914
CORNER 3	160°18'32"	3	912	915



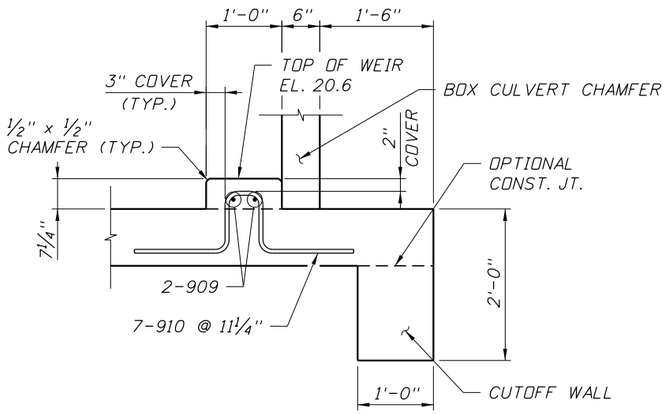
PLAN - CORNER REINFORCING DETAILS
(TRANSVERSE REINFORCEMENT)



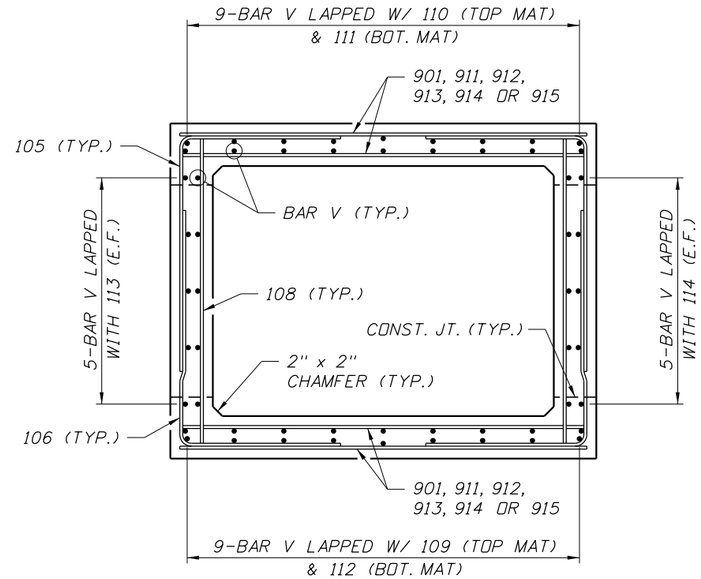
SHEAR KEY DETAIL



VIEW A-A



SECTION B-B
(BOX CULVERT REINF. NOT SHOWN FOR CLARITY)



SECTION C-C

NOTES:

1. FOR LOCATION OF VIEW A-A, SEE CONCETE BOX CULVERT (S-309) SHEET.
2. REFER TO INDEX 289 FOR BOX CULVERT DETAILS UNLESS NOTED ON PLANS.

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DEPARTMENT of TRANSPORTATION

EGILBERT

CONCRETE BOX CULVERT
CORNER REINFORCING DETAILS

SHEET NO. 125

9/19/2016 11:13:19 AM PW:\2021\6\00000000053055\V3.00_CAD\Homestead\struct\BIMlscStrClv107.dgn

BOX CULVERT DATA TABLES

BOX, HEADWALL AND CUTOFF WALL DATA TABLE (inches unless shown otherwise)

LOCATION	STRUCTURE NUMBER	BOX									HEADWALL AND CUTOFF WALL									
		Wc(ft)	Hc(ft)	Tt	Tw	Tb	Ti	#cells	Lc(ft)	Cover	Blhw	Hlhw	Brhw	Hrhw	Blcw	Hlcw	Brcw	Hrcw	SL(deg)	SR(deg)
603+32.92	SEGMENT A S-309	6	4	9	9	9	--	1	32.11	2	--	--	12	30	--	--	12	29	0	0
603+32.92	SEGMENT B S-309	6	4	9	9	9	--	1	207.20	2	--	--	--	--	--	--	--	--	--	--
605+40.51	SEGMENT C S-309	6	4	9	9	9	--	1	39.73	2	--	--	--	--	--	--	--	--	--	--

RIGHT SIDE WINGWALLS DATA TABLE (inches unless shown otherwise)

STRUCTURE NUMBER	RIGHT END WINGWALL									RIGHT BEGIN WINGWALL								
	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
SEGMENT A S-309	12	10	36	10	135	18.78	5.5	6.5	10	12	10	36	10	135	18.78	3.917	6.917	10
SEGMENT B S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEGMENT C S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ESTIMATED CONCRETE QUANTITIES (CY)

STRUCTURE NUMBER	BOX								LEFT END WINGWALL			LEFT BEGIN WINGWALL			RIGHT END WINGWALL			RIGHT BEGIN WINGWALL			Culvert Total
	Left Cutoff Wall	Right Cutoff Wall	Bottom Slab	Walls	Top Slab	Left Head Wall	Right Head Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	
SEGMENT A S-309	--	0.46	7.00	7.21	6.69	--	5.29	26.65	--	--	--	--	--	--	2.08	1.85	3.93	1.92	1.68	3.60	34.18
SEGMENT B S-309	--	--	43.17	46.47	43.49	--	--	133.13	--	--	--	--	--	--	--	--	--	--	--	--	133.13
SEGMENT C S-309	--	--	8.28	8.91	8.28	--	--	25.47	--	--	--	--	--	--	--	--	--	--	--	--	25.47

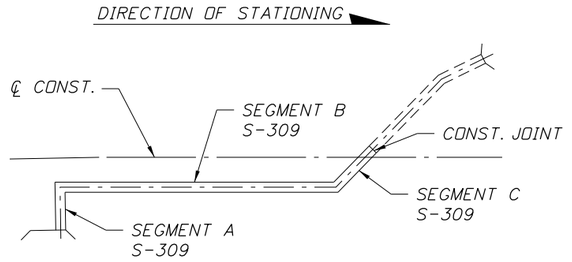
MAIN STEEL REINFORCEMENT SPACING (inches)

STRUCTURE NUMBER	BOX															HEADWALLS		CUTOFF WALLS	
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115, 116...	803	806	809	812
SEGMENT A S-309	9	9	9	9	9	9	9	9	12	12	12	12	12	12	--	--	12	--	12
SEGMENT B S-309	9	9	9	9	9	9	9	9	12	12	12	12	12	12	--	--	--	--	--
SEGMENT C S-309	9	9	9	9	9	9	9	9	12	12	12	12	12	12	--	--	--	--	--

WINGWALL STEEL REINFORCEMENT SPACING (inches)

STRUCTURE NUMBER	LEFT END WINGWALL							LEFT BEGIN WINGWALL							RIGHT END WINGWALL							RIGHT BEGIN WINGWALL						
	401 407(8)	402 (403)	404 (405)	406	409	410	411	501 507(8)	502 (503)	504 (505)	506	509	510	511	601 607(8)	602 (603)	604 (605)	606	609	610	611	701 707(8)	702 (703)	704 (705)	706	709	710	711
SEGMENT A S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	12	12	10	10	10	12	10	12	12	10	10	10	12
SEGMENT B S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEGMENT C S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WINGWALL NOTE: Bar designations in "( )" are only required for variable height wingwalls.



LOCATION PLAN

NOTES:

1. Environmental Classification: Moderately Aggressive.
2. Reinforcing Steel: ASTM A615 Grade 60.
3. Concrete Class IV, f'c = 5.5 ksi.
4. Soil Properties:
   Friction Angle: 30 degrees
   Modulus of Subgrade Reaction: 100 kcf
   Nominal Bearing Capacity: 3.7 ksf
5. Total Estimated Quantity of Reinforcing Steel (Lbs)
   Segment A (S-309) - 7,005
   Segment B (S-309) - 27,246
   Segment C (S-309) - 5,216
6. Work this Drawing with Design Standards Index No. 289 and Details pertaining to S-309.
7. Segment A, Segment B, and Segment C denote Segments of Box Culvert S-309 constructed in Phase II.

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REVISIONS					
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DEPARTMENT of TRANSPORTATION

EGILBERT

CONCRETE BOX CULVERT DATA TABLES

S-309 (SEGMENTS A, B & C, PHASE II)

SHEET NO. 126

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BOX CULVERT DATA TABLES

BOX, HEADWALL AND CUTOFF WALL DATA TABLE (inches unless shown otherwise)																				
LOCATION	STRUCTURE NUMBER	BOX									HEADWALL AND CUTOFF WALL									
		Wc(ft)	Hc(ft)	Tt	Tw	Tb	Ti	#cells	Lc(ft)	Cover	Blhw	Hlhw	Brhw	Hrhw	Blcw	Hlcw	Brcw	Hrcw	SL(deg)	SR(deg)
605+68.28	SEGMENT D . S-309	6	4	9	9	9	--	1	73.64	2	--	--	--	--	--	--	--	--	--	--
606+19.77	SEGMENT E . S-309	6	4	9	9	9	--	1	35.10	2	12	24	--	--	12	24	--	--	0	0

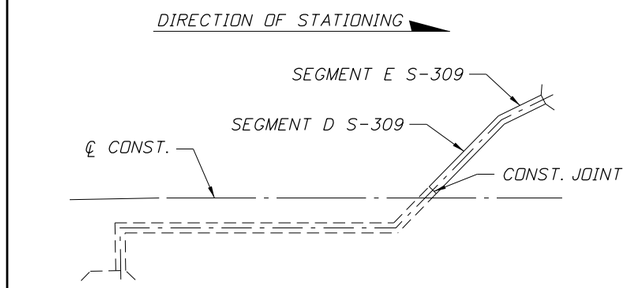
LEFT SIDE WINGWALLS DATA TABLE (inches unless shown otherwise)																			
STRUCTURE NUMBER	LEFT END WINGWALL									LEFT BEGIN WINGWALL									
	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	
SEGMENT D . S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SEGMENT E . S-309	12	10	36	10	120	23.01	2	6	8	12	10	36	10	120	23.01	2	6	8	

ESTIMATED CONCRETE QUANTITIES (CY)																					
STRUCTURE NUMBER	BOX								LEFT END WINGWALL			LEFT BEGIN WINGWALL			RIGHT END WINGWALL			RIGHT BEGIN WINGWALL			Culvert Total
	Left Cutoff Wall	Right Cutoff Wall	Bottom Slab	Walls	Top Slab	Left Head Wall	Right Head Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	
SEGMENT D S-309	--	--	15.34	16.52	15.34	--	--	47.20	--	--	--	--	--	--	--	--	--	--	--	--	47.20
SEGMENT E S-309	0.35	--	7.76	7.87	7.31	0.35	--	23.64	1.54	0.99	2.53	1.54	0.99	2.53	--	--	--	--	--	--	28.70

MAIN STEEL REINFORCEMENT SPACING (inches)																			
STRUCTURE NUMBER	BOX														HEADWALLS		CUTOFF WALLS		
	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115, 116...	803	806	809	812
SEGMENT D S-309	9	9	9	9	9	9	9	9	12	12	12	12	12	12	--	--	--	--	--
SEGMENT E S-309	9	9	9	9	9	9	9	9	12	12	12	12	12	12	--	12	--	12	--

WINGWALL STEEL REINFORCEMENT SPACING (inches)																											
STRUCTURE NUMBER	LEFT END WINGWALL							LEFT BEGIN WINGWALL							RIGHT END WINGWALL							RIGHT BEGIN WINGWALL						
	401 407(8)	402 (403)	404 (405)	406	409	410	411	501 507(8)	502 (503)	504 (505)	506	509	510	511	601 607(8)	602 (603)	604 (605)	606	609	610	611	701 707(8)	702 (703)	704 (705)	706	709	710	711
SEGMENT D S-309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEGMENT E S-309	10	12	12	10	10	10	12	10	12	12	10	10	10	12	--	--	--	--	--	--	--	--	--	--	--	--	--

WINGWALL NOTE: Bar designations in "( )" are only required for variable height wingwalls.



LOCATION PLAN

NOTES:

1. Environmental Class Moderately Aggressive.
2. Reinforcing Steel, Grade ASTM 615 Grade 60.
3. Concrete Class IV, f'c 5.5 ksi.
4. Soil Properties:
   Friction Angle 30 degrees
   Modulus of Subgrade Reaction 100 kcf
   Nominal Bearing Capacity 3.7 ksf
5. Total Estimated Quantity of Reinforcing Steel (Lbs)
   Segment D (S-309) - 9,697
   Segment E (S-309) - 5,185
6. Work this Drawing with Design Standards Index No. 289 and Details Pertaining to S-309.
7. Segment D and Segment E denote Segments of Box Culvert S-309 constructed in Phase III.

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FORT MYERS, FLORIDA 33901

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CONCRETE BOX CULVERT DATA TABLES

S-309 (SEGMENTS D AND E, PHASE III)

SHEET NO. 127

9/19/2016 11:13:38 AM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\struct\BIDataTable04.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-309 (SEGMENT A)														(NO. REQUIRED = 1)		
5	101	7- 2	29	1			7- 2									
5	102	7- 2	29	1			7- 2									
5	103	7- 2	31	1			7- 2									
5	104	7- 2	31	1			7- 2									
5	105	6-10	104	10			4- 0	2-10								
5	106	6-10	104	10			4- 0	2-10								
4	108	5- 2	104	1			5- 2									
4	109	VARIES	1	1			VARIES									
		29- 9	SET				29- 9									
		TO	OF				TO									
		37- 0	9				37- 0									
4	110	VARIES	1	1			VARIES									
		28- 3	SET				28- 3									
		TO	OF				TO									
		35- 6	9				35- 6									
4	111	VARIES	1	1			VARIES									
		27- 8	SET				27- 8									
		TO	OF				TO									
		34-11	9				34-11									
4	112	VARIES	1	1			VARIES									
		29- 9	SET				29- 9									
		TO	OF				TO									
		37- 0	9				37- 0									
4	113	34- 7	10	1			34- 7									
4	114	27- 8	10	1			27- 8									
5	901	VARIES	4	1			VARIES									
		6- 6	SETS				6- 6									
		TO	OF				TO									
		9- 3	22				9- 3									
4	902	8- 0	56	12			4- 0	4- 0								91
5	913	10- 2	4	1			10- 2									
RIGHT END WINGWALL														(NO. REQUIRED = 1)		
4	601	VARIES	1	1			VARIES									
		5- 3	SET				5- 3									
		TO	OF				TO									
		6- 2	12				6- 2									
4	602	9- 8	6	1			9- 8									
4	603	1- 0	1	1			1- 0									
4	604	9- 8	6	1			9- 8									
4	605	1- 0	1	1			1- 0									
4	606	VARIES	1	1			VARIES									
		5- 3	SET				5- 3									
		TO	OF				TO									
		6- 2	12				6- 2									
4	607	3-11	12	10			2- 5	1- 6								
4	609	4- 6	12	1			4- 6									
4	610	4- 6	12	1			4- 6									
4	611	9- 8	12	1			9- 8									
5	612	2- 0	10	1			2- 0									

NOTE:

FOR BAR BENDING DETAILS, SEE INDEX NO. 21300.

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EGILBERT

REINFORCING BAR LIST

S-309 (SEGMENT A, PHASE II)(1 OF 2)

SHEET NO. 128

9/19/2016 11:13:47 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\struct\BIRebarLIst09.dgn

MARK		LENGTH		NO	TYP	STY		B			C			D			E			F			H			J			K			N	Ø
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
RIGHT BEGIN WINGWALL																																	(NO. REQUIRED = 1)
4	701	VARIES		1	1			VARIES																									
		3- 9		SET				3- 9																									
		TO		OF				TO																									
		6- 6		12				6- 6																									
4	702	9- 8		4	1			9- 8																									
4	703	VARIES		1	1			VARIES																									
		1- 7		SET				1- 7																									
		TO		OF				TO																									
		8- 3		3				8- 3																									
4	704	9- 8		4	1			9- 8																									
4	705	VARIES		1	1			VARIES																									
		1- 7		SET				1- 7																									
		TO		OF				TO																									
		8- 3		3				8- 3																									
4	706	VARIES		1	1			VARIES																									
		3- 9		SET				3- 9																									
		TO		OF				TO																									
		6- 6		12				6- 6																									
4	707	3-11		12	10			2- 5			1- 6																						
4	709	4- 6		12	1			4- 6																									
4	710	4- 6		12	1			4- 6																									
4	711	9- 8		12	1			9- 8																									
5	712	2- 0		10	1			2- 0																									
RIGHT HEADWALL																																	(NO. REQUIRED = 1)
4	804	26- 3		2	1			26- 3																									
6	805	26- 3		2	1			26- 3																									
4	806	6- 1		9	27			2- 1 1/2			0- 8						0- 3			1-10 1/2			0- 8			0- 8							
4	815	21- 2		14	28			17- 4 3/4			2- 2			1- 6			0- 5																
4	816	4- 4		42	1			4- 4																									
6	817	20- 1		2	10			19- 4			0- 9																						
6	818	9- 6		10	10			7- 4			2- 2																						
4	819	7- 4		10	1			7- 4																									
4	820	9- 4		1	10			7- 2			2- 2																						
4	821	7- 2		1	1			7- 2																									
4	822	4- 8		28	1			4- 8																									
4	823	2- 0		2	1			2- 0																									
4	824	6- 0		8	1			6- 0																									
4	825	20- 1		2	10			19- 4			0- 9																						
4	826	9- 2		1	10			7- 0			2- 2																						
4	827	7- 0		1	1			7- 0																									
4	828	2- 4		2	1			2- 4																									
4	829	3-10		2	1			3-10																									
RIGHT CUTOFF WALL																																	(NO. REQUIRED = 1)
4	810	26- 4		2	28			17- 5			7- 4			1- 6			0- 5																
4	811	26- 3		2	1			26- 3																									
4	812	5-11		9	7			2- 0 1/4			0- 8			0- 7			0- 7																
4	813	5- 1		19	7			1- 7 1/4			0- 8			0- 7			0- 7																
4	814	5- 6		1	7			1- 9 3/4			0- 8			0- 7			0- 7																

NOTE:

FOR BAR BENDING DETAILS, SEE INDEX NO. 21300.

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EGILBERT

REINFORCING BAR LIST

S-309 (SEGMENT A, PHASE II)(2 OF 2)

SHEET NO. 129

9/19/2016 11:13:56 AM PW:\2021\6\00000000053055\V3.00_CAD\Homestead\struct\BlRebarList10.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-309 (SEGMENT B) *														(NO. REQUIRED = 1)		
5	101	7- 2	255	1			7- 2									
5	102	7- 2	255	1			7- 2									
5	103	7- 2	255	1			7- 2									
5	104	7- 2	255	1			7- 2									
5	105	6-10	574	10			4- 0	2-10								
5	106	6-10	574	10			4- 0	2-10								
4	108	5- 2	574	1			5- 2									
4	109	211- 6	9	2			1- 9	206- 3							3	
4	110	211- 6	9	2			1- 9	206- 3							3	
4	111	211- 6	9	2			1- 9	206- 3							3	
4	112	211- 6	9	2			1- 9	206- 3							3	
4	113	214- 3	10	2			1- 9	209- 0							3	
4	114	210- 3	10	2			1- 9	205- 0							3	
5	901	VARIES	4	1			VARIES									
		6- 6	SETS				6- 6									
		TO	OF				TO									
		9- 3	22				9- 3									
4	903	8- 0	56	12			4- 0	4- 0								46
5	905	14- 9	1	24			2- 2	2- 0								
5	906	16-10	1	24			2- 2	2- 4								
4	907	2- 6	16	17	1		2- 0									
6	908	8- 6	12	18	1	1	7- 2									
5	911	7- 2	36	1			7- 2									
5	914	7- 9	4	1			7- 9									
5	916	7- 1	26	10			4- 3	2-10								
4	917	9- 2	2	1			9- 2									
MAIN BOX - S-309 (SEGMENT C)														(NO. REQUIRED = 1)		
5	101	7- 2	47	1			7- 2									
5	102	7- 2	47	1			7- 2									
5	103	7- 2	47	1			7- 2									
5	104	7- 2	47	1			7- 2									
5	105	6-10	112	10			4- 0	2-10								
5	106	6-10	112	10			4- 0	2-10								
4	108	5- 2	112	1			5- 2									
4	109	VARIES	1	1			VARIES									
		40- 2	SET				40- 2									
		TO	OF				TO									
		43- 2	9				43- 2									
4	110	VARIES	1	1			VARIES									
		40- 2	SET				40- 2									
		TO	OF				TO									
		43- 2	9				43- 2									
4	111	VARIES	1	1			VARIES									
		40- 2	SET				40- 2									
		TO	OF				TO									
		43- 2	9				43- 2									
4	112	VARIES	1	1			VARIES									
		40- 2	SET				40- 2									
		TO	OF				TO									
		43- 2	9				43- 2									
4	113	43- 1	10	1			43- 1									
4	114	40- 3	10	1			40- 3									
5	911	7- 2	36	1			7- 2									

* REINFORCEMENT FOR MANHOLE INCLUDED

NOTE:

FOR BAR BENDING DETAILS, SEE INDEX NO. 21300.

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EGILBERT

REINFORCING BAR LIST

S-309 (SEGMENT B AND SEGMENT C, PHASE II)

SHEET NO. 130

9/19/2016 11:14:05 AM PW:\2021\6\00000000053055\V3.00_CAD\Homestead\struct\BlRebarListII.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-309 (SEGMENT D) (NO. REQUIRED = 1)																
5	101	7- 2	96	1			7- 2									
5	102	7- 2	96	1			7- 2									
5	103	7- 2	96	1			7- 2									
5	104	7- 2	96	1			7- 2									
5	105	6-10	202	10			4- 0	2-10								
5	106	6-10	202	10			4- 0	2-10								
4	108	5- 2	202	1			5- 2									
4	109	74- 8	9	2			1- 9	72-11							1	
4	110	74- 8	9	2			1- 9	72-11							1	
4	111	74- 8	9	2			1- 9	72-11							1	
4	112	74- 8	9	2			1- 9	72-11							1	
4	113	75-10	10	2			1- 9	74- 1							1	
4	114	74- 8	10	2			1- 9	72-11							1	
4	904	8- 0	56	12			4- 0	4- 0								20
5	912	7- 2	16	1			7- 2									
5	915	7- 3	4	1			7- 3									

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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REINFORCING BAR LIST

S-309 (SEGMENT D, PHASE III)

SHEET NO. 131

9/19/2016 11:14:14 AM PW:\202116\0000000053055\V3.00_CAD\Homestead\struct\BlRebarLlst12.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
MAIN BOX - S-309 (SEGMENT E) *															(NO. REQUIRED = 1)	
5	101	7- 2	45	1			7- 2									
5	102	7- 2	45	1			7- 2									
5	103	7- 2	47	1			7- 2									
5	104	7- 2	47	1			7- 2									
5	105	6-10	98	10			4- 0	2-10								
5	106	6-10	98	10			4- 0	2-10								
4	108	5- 2	98	1			5- 2									
4	109	35- 9	9	1			35- 9									
4	110	34- 3	9	1			34- 3									
4	111	33- 7	9	1			33- 7									
4	112	35- 9	9	1			35- 9									
4	113	34-10	10	1			34-10									
4	114	33- 8	10	1			33- 8									
4	909	10- 0	2	11			7- 0	1- 6	1- 6							
4	910	4- 5	7	6			0- 8 ½	1- 3	0- 6	1- 3						
5	912	7- 2	16	1			7- 2									
LEFT END WINGWALL															(NO. REQUIRED = 1)	
4	401	VARIES	1	1			VARIES									
		1-11	SET				1-11									
		TO	OF				TO									
		5- 6	10				5- 6									
4	402	7- 8	2	1			7- 8									
4	403	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		7- 0	4				7- 0									
4	404	7- 8	2	1			7- 8									
4	405	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		7- 0	4				7- 0									
4	406	VARIES	1	1			VARIES									
		1-11	SET				1-11									
		TO	OF				TO									
		5- 6	10				5- 6									
4	407	3-11	10	10			2- 5	1- 6								
4	409	4- 6	10	1			4- 6									
4	410	4- 6	10	1			4- 6									
4	411	7- 8	12	1			7- 8									
5	412	2- 0	9	1			2- 0									

* REINFORCEMENT FOR WEIR INCLUDED

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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EGILBERT

REINFORCING BAR LIST

S-309 (SEGMENT E, PHASE III)(1 OF 2)

SHEET NO. 132

9/19/2016 11:14:23 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\struct\BIRebarLIst13.dgn

MARK		LENGTH	NO	TYP	STY		B	C	D	E	F	H	J	K	N	Ø
SIZE	DES	FT IN	BARS	BAR	A	G	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	FT IN FR	NO	ANG
LEFT BEGIN WINGWALL															(NO. REQUIRED = 1)	
4	501	VARIES	1	1			VARIES									
		1-11	SET				1-11									
		TO	OF				TO									
		5- 6	10				5- 6									
4	502	7- 8	2	1			7- 8									
4	503	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		7- 0	4				7- 0									
4	504	7- 8	2	1			7- 8									
4	505	VARIES	1	1			VARIES									
		1- 0	SET				1- 0									
		TO	OF				TO									
		7- 0	4				7- 0									
4	506	VARIES	1	1			VARIES									
		1-11	SET				1-11									
		TO	OF				TO									
		5- 6	10				5- 6									
4	507	3-11	10	10			2- 5	1- 6								
4	509	4- 6	10	1			4- 6									
4	510	4- 6	10	1			4- 6									
4	511	7- 8	12	1			7- 8									
5	512	2- 0	9	1			2- 0									
LEFT HEADWALL															(NO. REQUIRED = 1)	
4	801	7- 2	2	1			7- 2									
6	802	7- 2	2	1			7- 2									
4	803	5- 1	9	27			1- 7 1/4	0- 8		0- 2 3/4	1- 4 1/2	0- 8	0- 8			
LEFT CUTOFF WALL															(NO. REQUIRED = 1)	
4	807	7- 2	2	1			7- 2									
4	808	7- 2	2	1			7- 2									
4	809	5- 1	9	7			1- 7 1/4	0- 8	0- 7	0- 7						

NOTE:

FOR BAR BENDING DETAILS,
SEE INDEX NO. 21300.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Chester A. Smith III, P.E.
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5426 Bay Center Drive, Suite 400
Tampa, FL 33609-3444
Certificate of Authorization 4213

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FORT MYERS, FLORIDA 33901

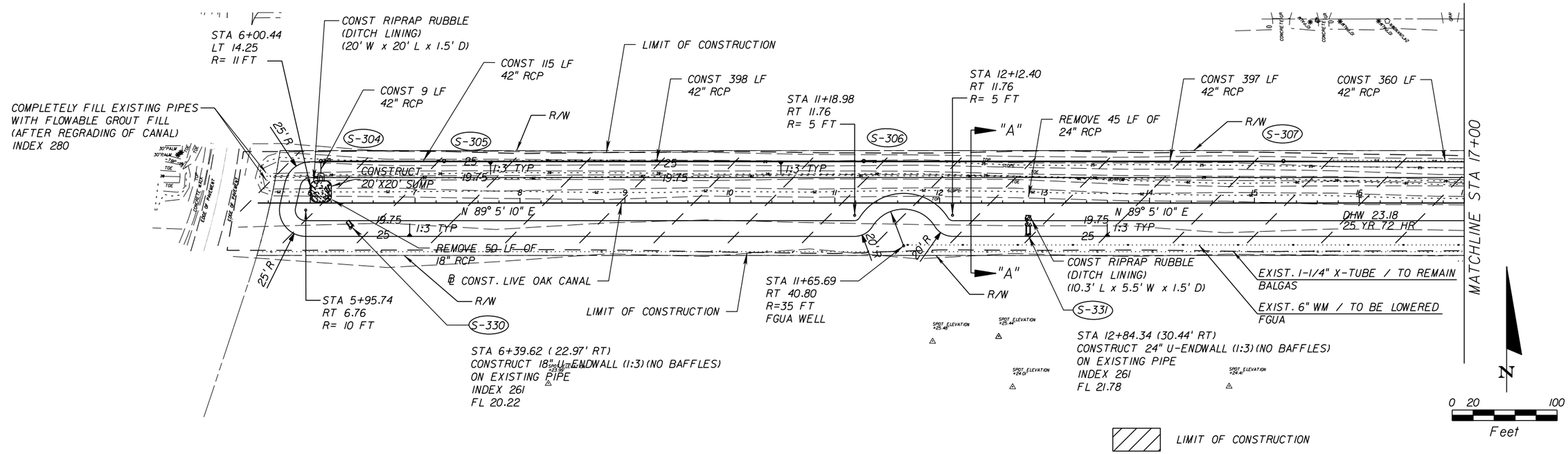
EGILBERT

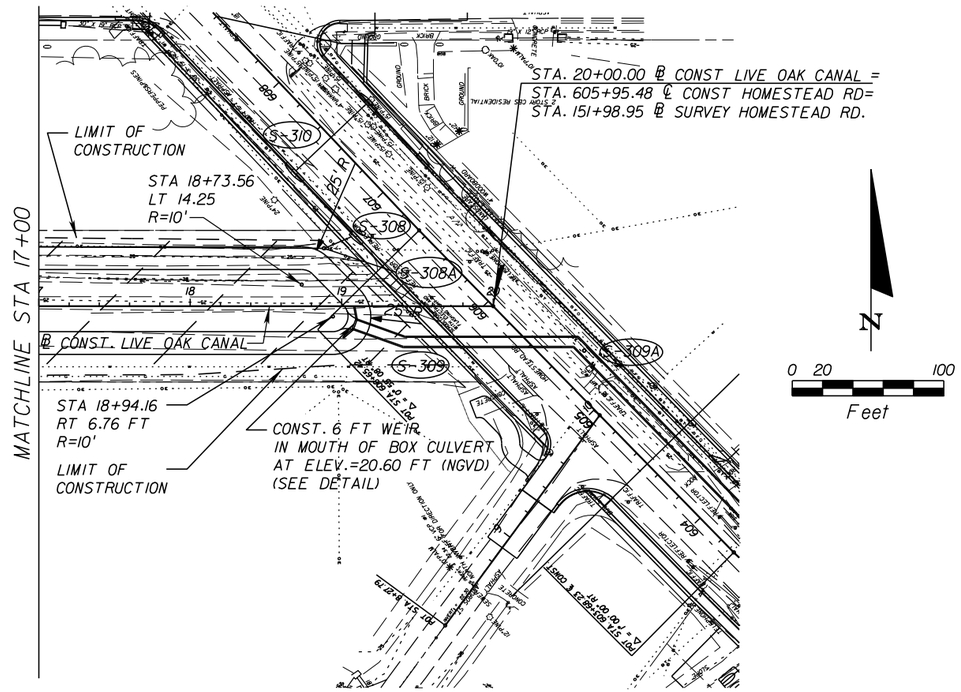
REINFORCING BAR LIST

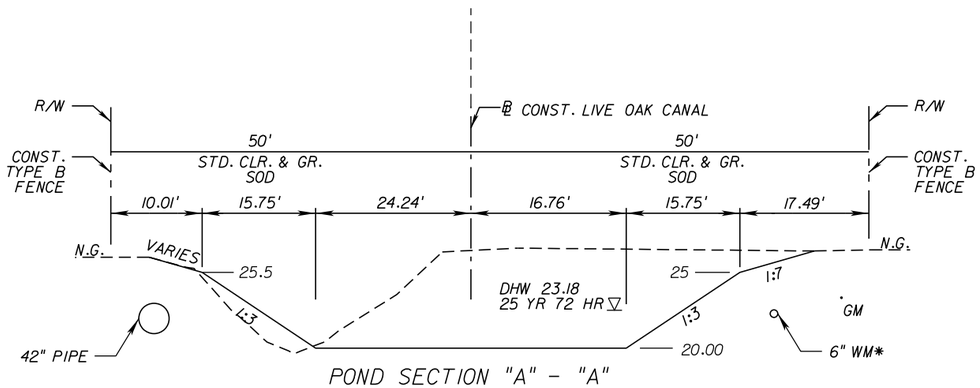
S-309 (SEGMENT E, PHASE III)(2 OF 2)

SHEET NO. 133

9/19/2016 11:14:33 AM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\struct\BlRebarLIst14.dgn

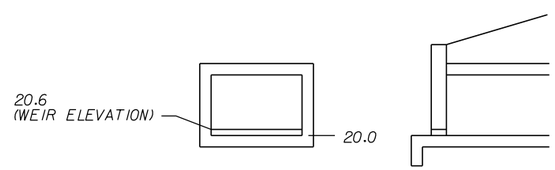






POND SECTION "A" - "A"

*EXISTING WATER MAIN WAS NOT FIELD VERIFIED. CONTRACTOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.



CONCRETE BOX CULVERT WEIR DETAIL

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Juan C. Lopez, P.E.
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Certificate of Authorization 4213

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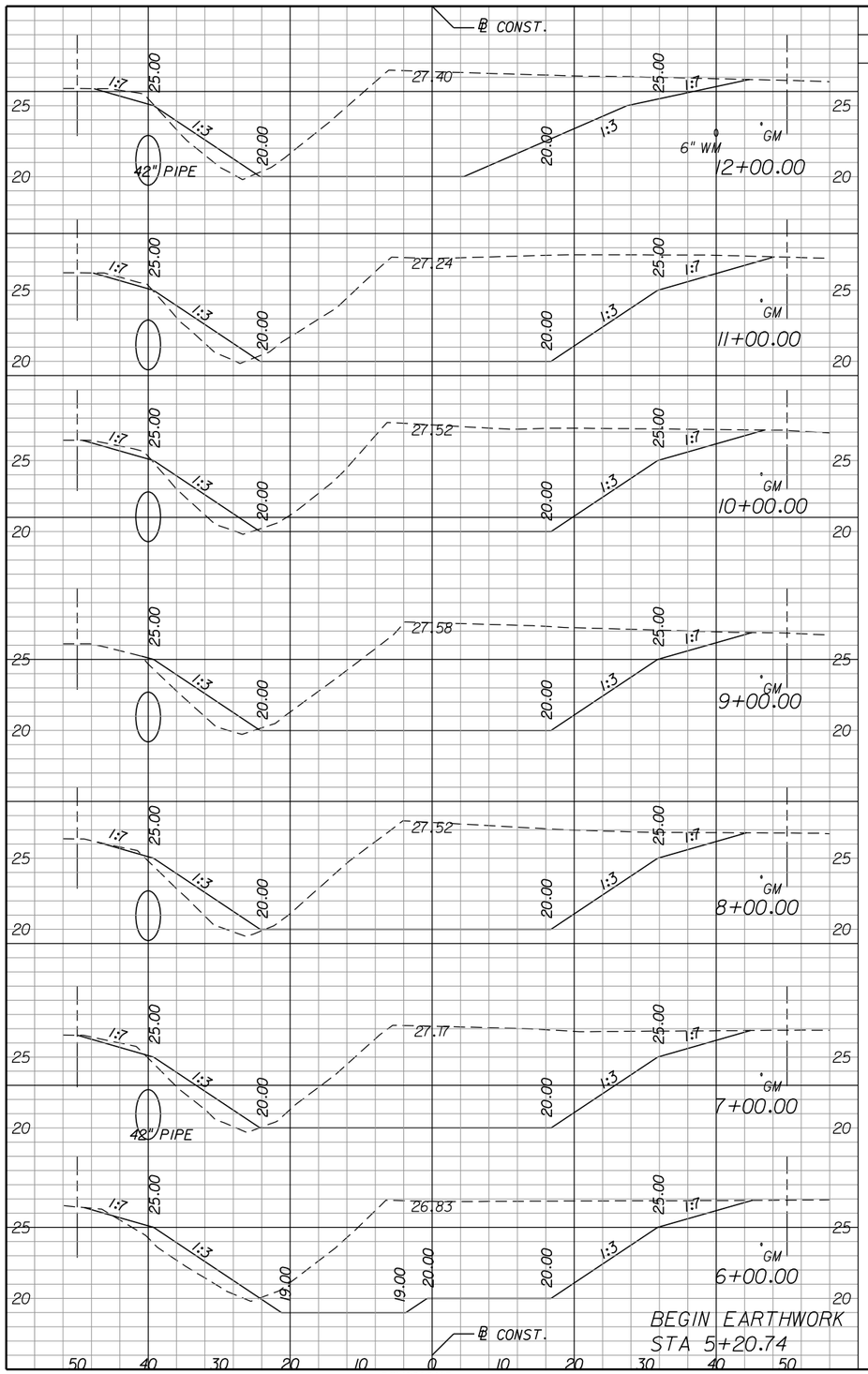
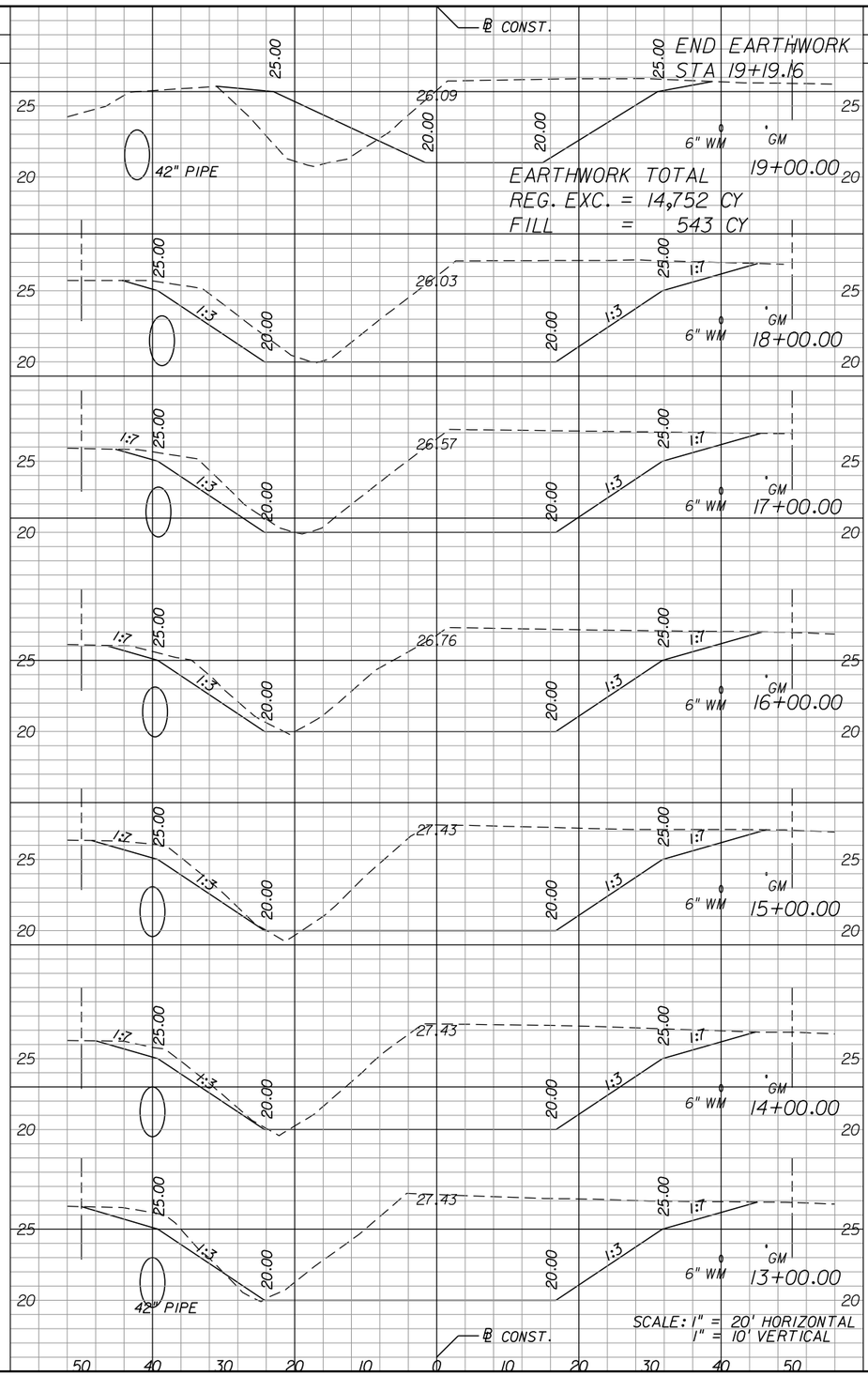
EGILBERT

POND PLAN SHEET
LIVE OAK CANAL

SHEET NO. 134

9/19/2016 11:14:43 AM PW:\2021\6\00000000053055\V3.00_CAD\Homestead\drainage\pdplrd01.dgn





	Regular Exc.		Embankment	
	A	V	A	V
12+00.00	273	1113	11	46
11+00.00	328	1202	14	52
10+00.00	321	1169	15	61
9+00.00	310	1139	18	69
8+00.00	305	1121	19	64
7+00.00	301	1097	16	63
6+00.00	292	429	18	26
BEGIN EARTHWORK STA 5+20.74	0	0	0	
19+00.00	166	830	57	105
18+00.00	282	1048	0	0
17+00.00	284	1071	0	0
16+00.00	294	1101	0	4
15+00.00	300	1120	2	5
14+00.00	304	1156	1	4
13+00.00	320	1097	2	24
END EARTHWORK STA 19+19.16	0	59	0	20

NOTE/CODE: ATHEI ADE FRECOQRABECOBRO HOPS TSHMSE S:HELS TT HBE TEHUE CIT BEONTRONRO UEILB I S IGOWELL VANSU SGBUDE BNNOW

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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EGILBERT

CROSS SECTIONS
LIVE OAK CANAL

SHEET NO. 135

9/19/2016 11:14:54 AM PW:\2021I6\0000000000053055\V3.00_CAD\Homestead\drainage\pdxsrd0I.dgn

DESIGNED - EGILBERT DRAWN - EGILBERT CHECKED - JCLOPEZ QA/QC - FGALE 23.004, F.A.C.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

Date of Survey: Apr - Aug 2007

Survey Made By: Ardaman & Associates, Inc.

Submitted By: G.A. Drew, P.E.

Ardaman File No.: 07-4550

DISTRICT: ONE
ROAD NO.: N/A
COUNTY: LEE

PROJECT NO: CN #06-17

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 58+00
14+50
21+50

SURVEY ENDS STA. 178+00 B/L HOMESTEAD ROAD
18+50 C/L ALABAMA ROAD
27+50 C/L LEELAND HEIGHTS BLVD

	ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS					CORROSION TESTS RESULTS				
Stratum No.	*No. of Tests*	*% Organic*	*% Moisture Content*	*No. of Tests*	*10 Mesh*	*40 Mesh*	*60 Mesh*	*100 Mesh*	*200 Mesh*	*No. of Tests*	*Liquid Limit*	*Plastic Index*	*AASHTO Group*	*Description*	*No. of Tests*	*Resistivity ohm cm*	*Chlorides ppm*	*SO_4 ppm*	*pH*
1	---	---	10 - 15	2	46 - 47	26 - 33	20 - 28	17 - 24	13 - 18	---	NP	NP	A-1-a/A-1-b	Silty Sandy Gravel	---	---	---	---	---
2	2	1.7 - 3.3	1 - 7	11	100	77 - 82	29 - 35	8 - 17	2 - 9	---	NP	NP	A-3	Fine Sand	8	7,200 - 59,000	30 - 45	0 - 64	4.3 - 7.7
3	---	---	12 - 26	3	67 - 100	51 - 83	42 - 44	21 - 38	12 - 31	---	NP	NP	A-2-4	Silty Fine Sand, tr. to some Gravel	---	---	---	---	---
4	---	---	7 - 15	1	100	85 - 90	45 - 65	31 - 45	21 - 27	4	20 - 23	5 - 10	A-2-4	Silty Clayey Fine Sand	2	4,800 - 5,900	45 - 60	30 - 79	7.3 - 7.7
5	---	---	17 - 20	2	100	86	57 - 61	43 - 48	32 - 40	1	36	24	A-2-6/A-6	Clayey Fine Sand	1	3,400	30	5	6.0
6	---	---	25	1	93	89	77	65 - 70	57	---	NP	NP	A-4	Sandy Silt, trace Gravel	1	4,100	45	44	7.2

NOTES

(1) Strata boundaries are approximate - make final check after grading.

(2) ▽ Water table encountered.

(3) GNE - Groundwater not encountered.

(4) ---- unmeasured parameters

- The material from Stratum Number 2 appears satisfactory for use in the embankment when utilized in accordance with INDEX 505.
- The materials from Strata Numbers 1, 3 and 4 appear satisfactory for use in the embankment when utilized in accordance with INDEX 505. However, these materials are likely to retain excess moisture and may be difficult to dry and compact. They should be used in the embankment above the water level existing at the time of construction.
- The materials from Strata Numbers 5 and 6 are plastic A-2-6/A-6 and A-4 material and may be placed above the existing water table (at the time of construction) to within 4 feet of the proposed base. They should be placed uniformly in the lower portion of the embankment for some distance along the project rather than full depth for shorter distances.

REVISIONS							Names	Dates
Date	By	Description	Date	By	Description	Drawn by	GBD	08/07
						Checked by	GAD	08/07
						Designed by		
						Checked by		
						Approved by		

ENGINEER OF RECORD:
G.A. DREW, P.E.
FL. REG. NO. 35504

Ardaman & Associates, Inc.
9970 BAVARIA ROAD
FT. MYERS, FL. 33913
PHONE (239) 768-6600
ENG. AUTH NO. 5950

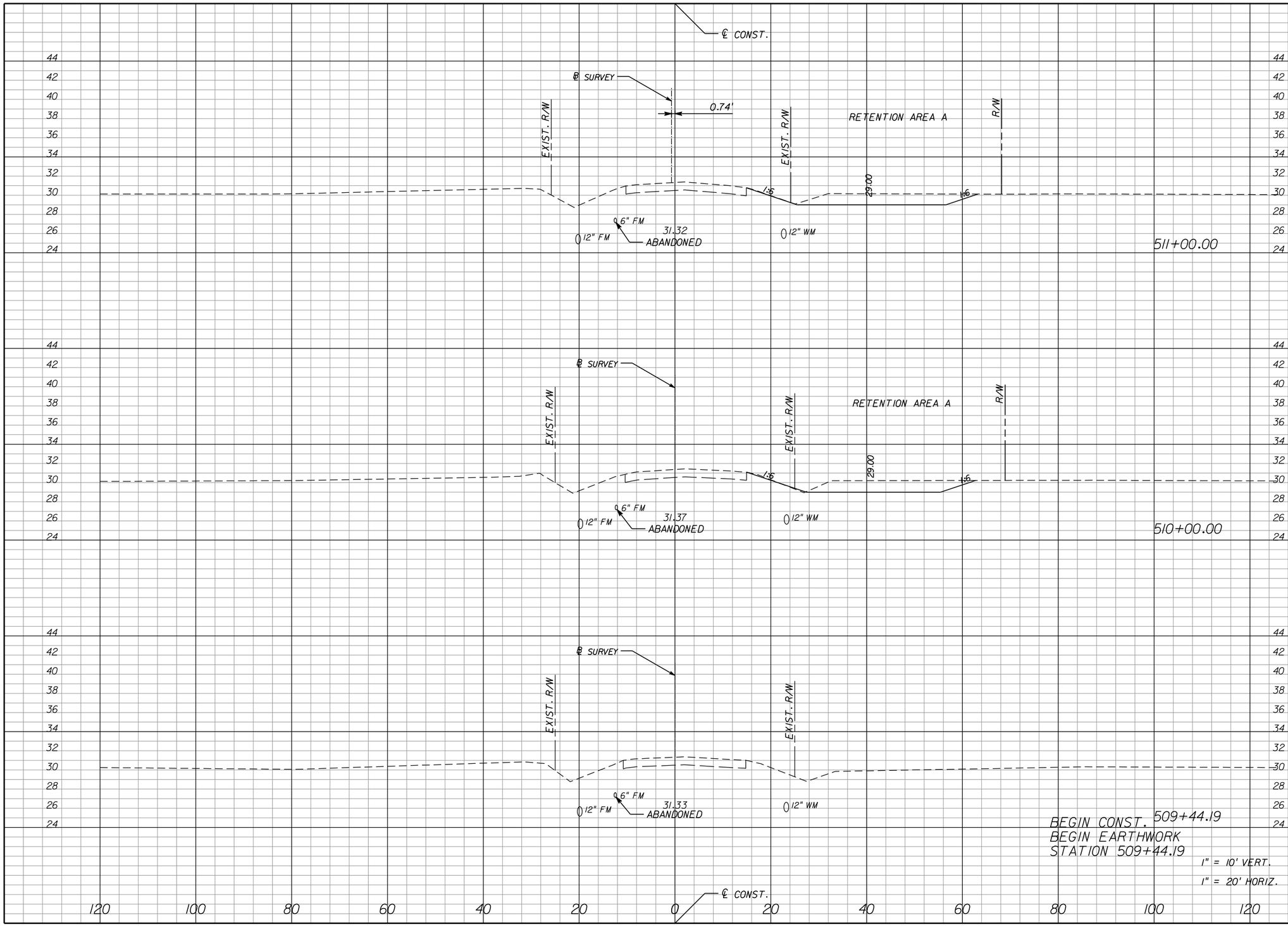
Ardaman & Associates, Inc.

SEAL:

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

ROADWAY SOILS SURVEY
HOMESTEAD ROAD WIDENING -
SUNRISE BLVD TO ALABAMA RD

SHEET NO.
136



Regular Exc.		Embankment	
A	V	A	V
36		0	
	134		1
36		0	
	0		0
0		0	
	0		0

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Certificate of Authorization 4213

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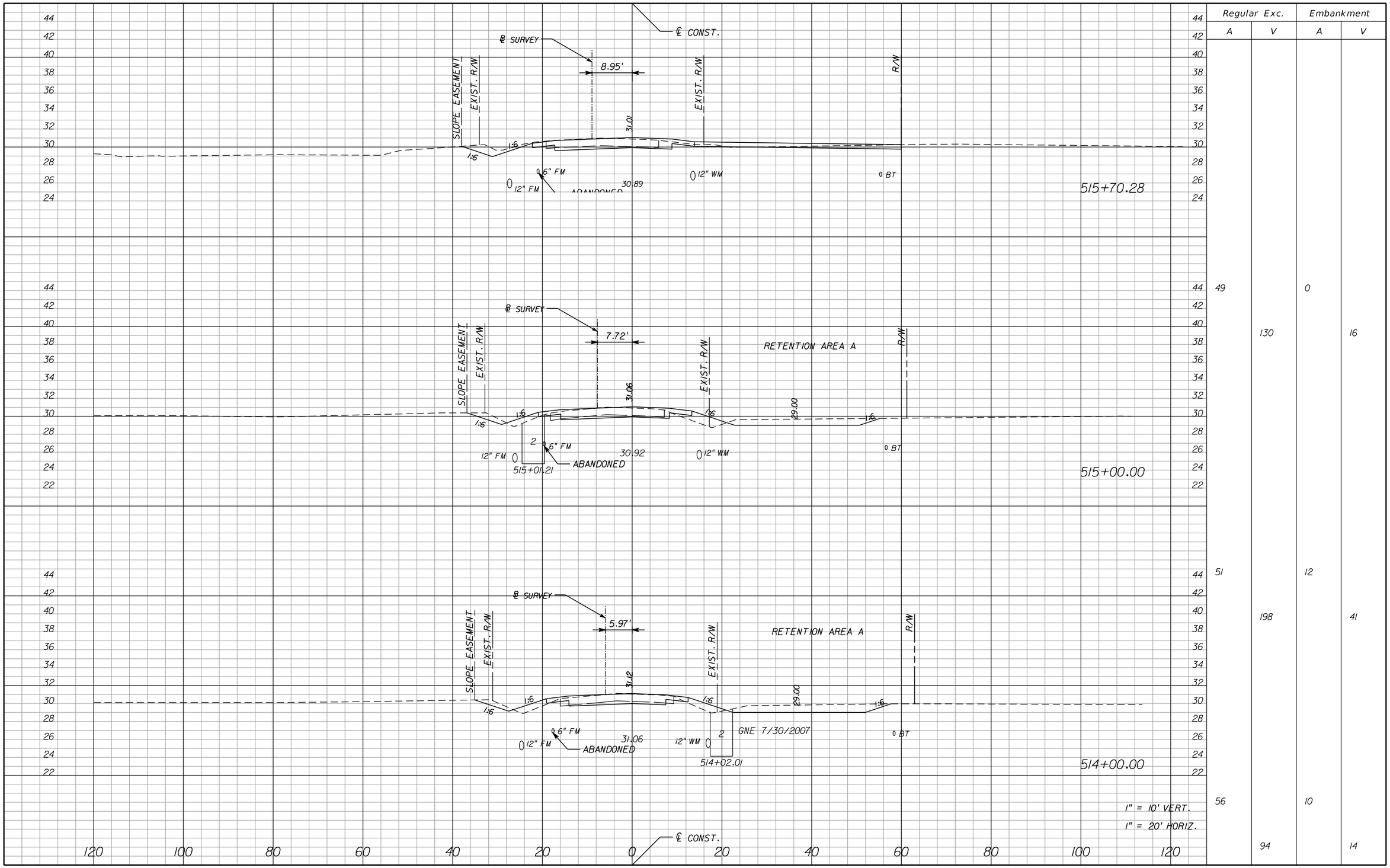
EGILBERT 9/19/2016 11:5:16 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 137



Regular Exc.		Embankment	
A	V	A	V
49	130	0	16
51	198	12	41
56	94	10	14

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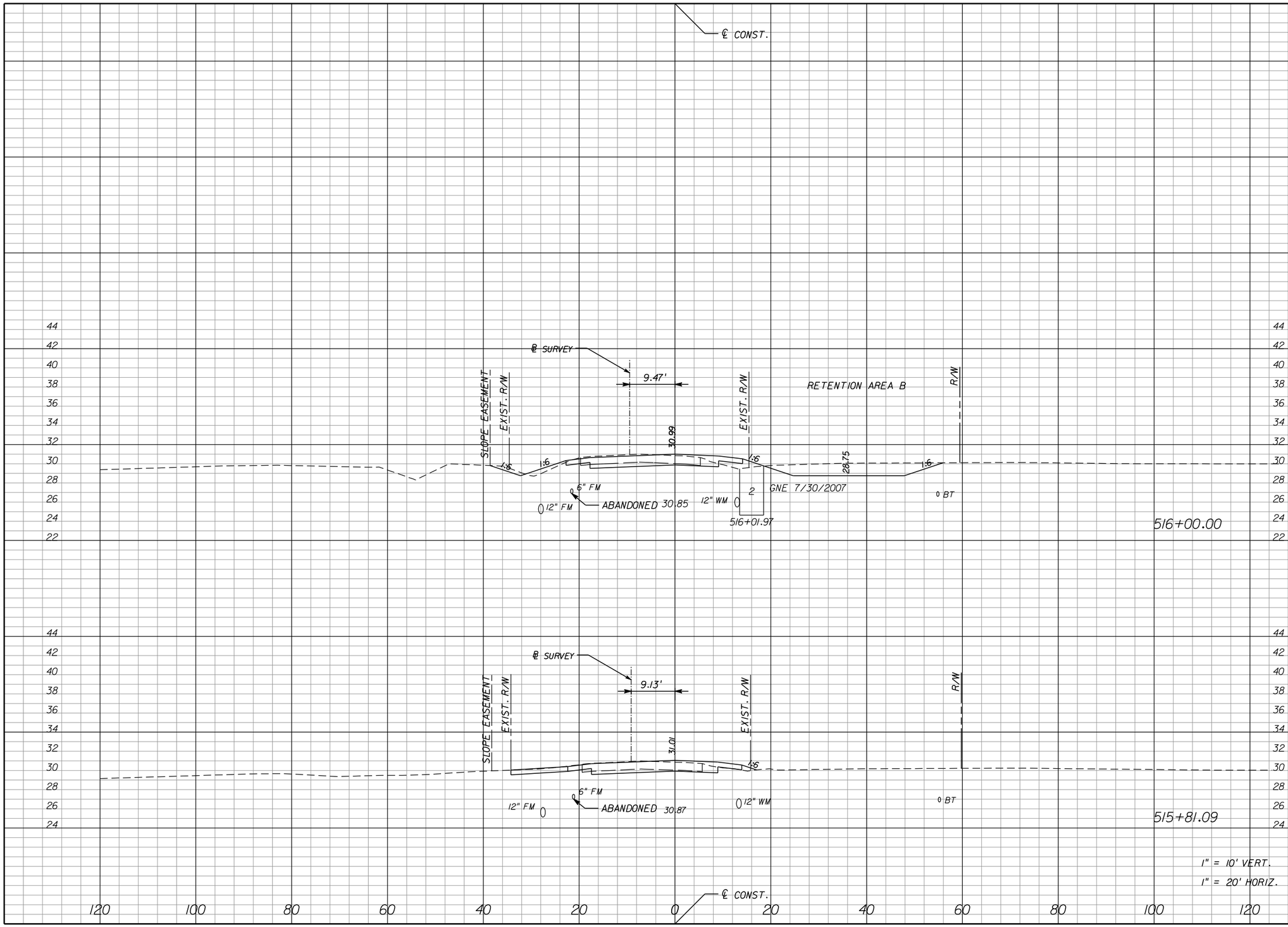
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 139

9/19/2016 11:15:17 AM PW:\2016\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
72		8	
	38		3
36		1	
	17		0

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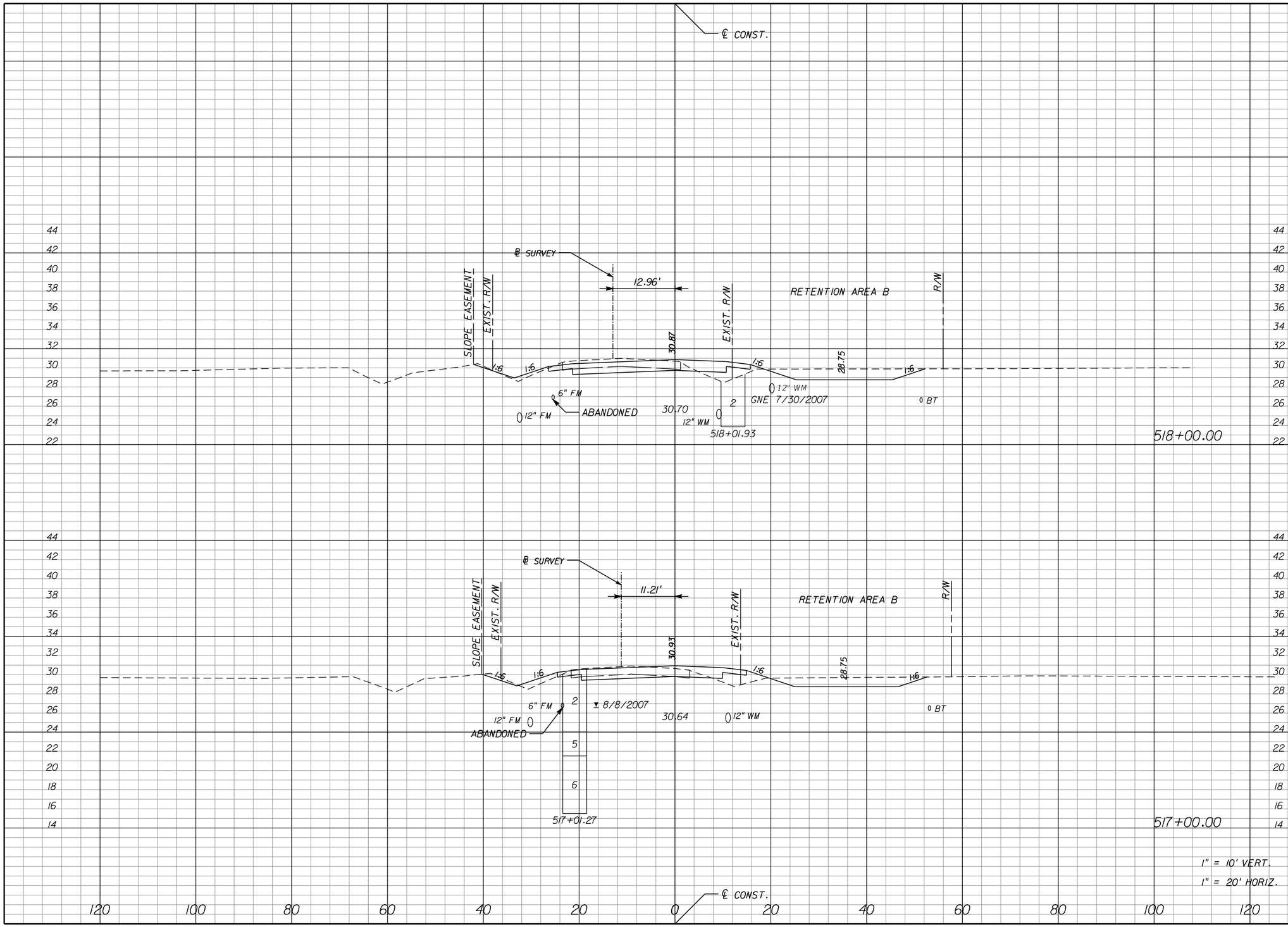
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 140

9/19/2016 11:15:18 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd0I.dgn



Regular Exc.		Embankment	
A	V	A	V
65	225	12	46
56	237	13	39

1" = 10' VERT.
1" = 20' HORIZ.

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REVISIONS

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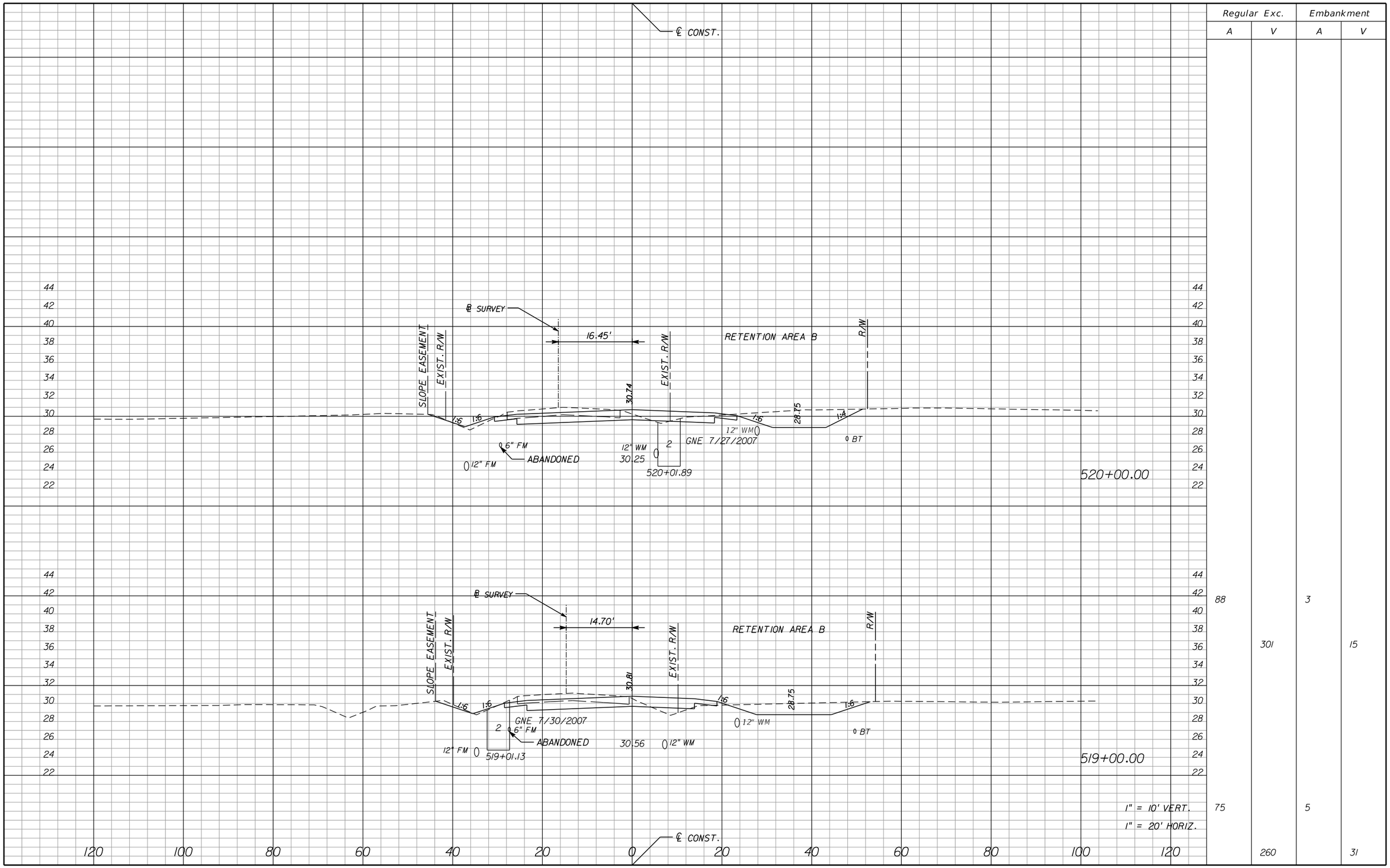
EGILBERT

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 141

9/19/2016 11:15:18 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
88		3	
	301		15
75		5	
	260		31

1" = 10' VERT.
1" = 20' HORIZ.

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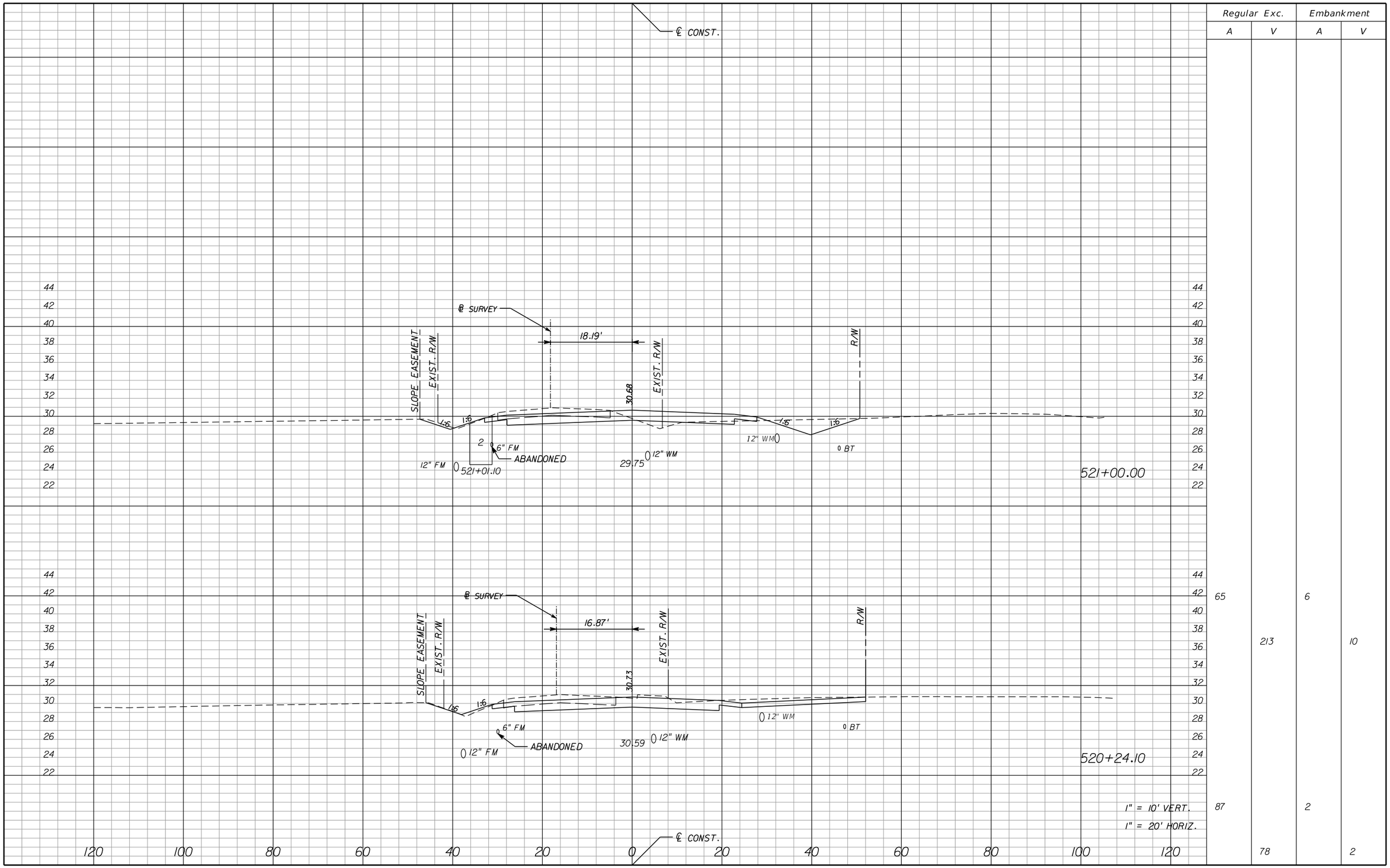
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 142

9/19/2016 11:15:20 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
65	213	6	10
87	78	2	2

1" = 10' VERT.
1" = 20' HORIZ.

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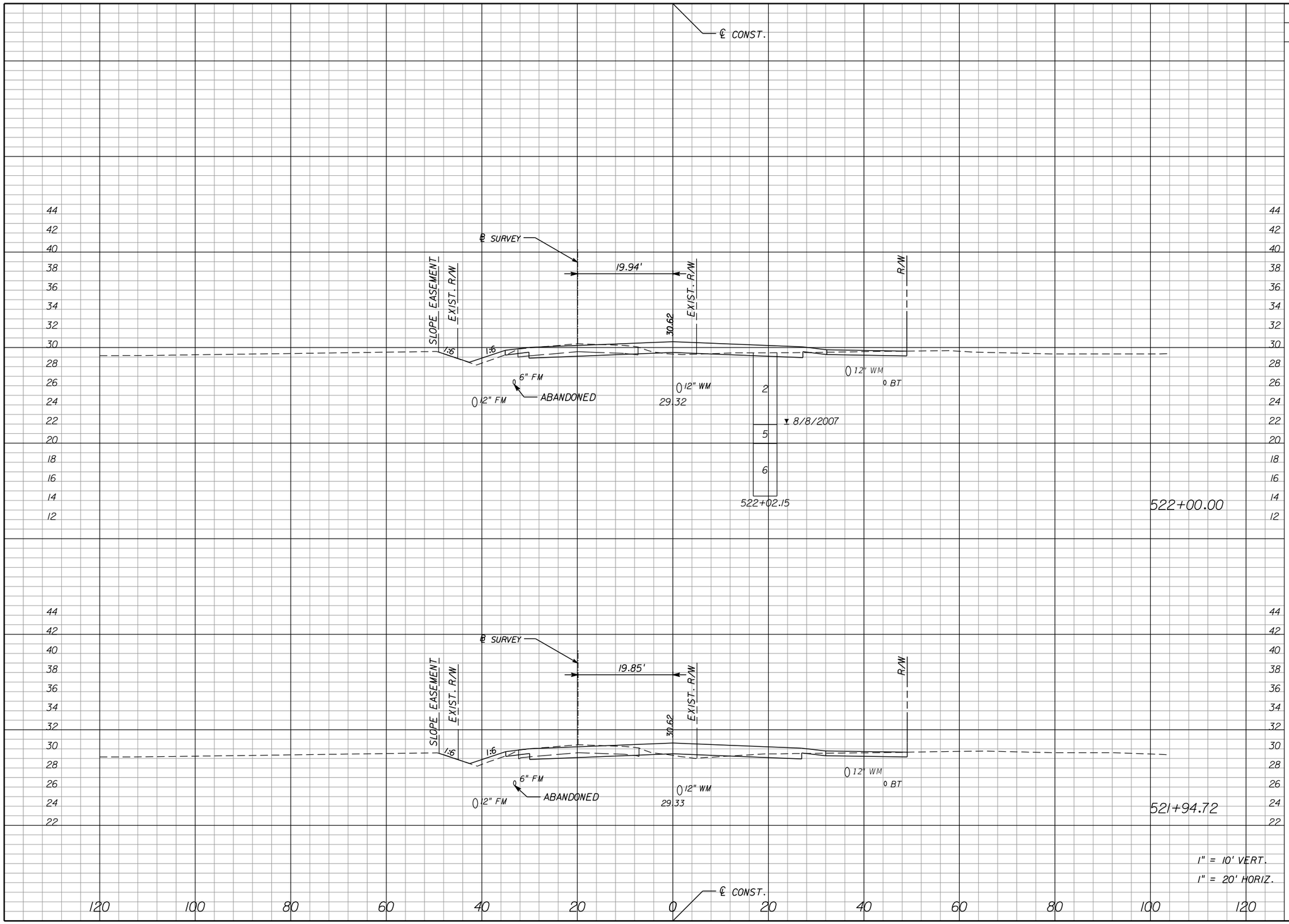
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 143



Regular Exc.		Embankment	
A	V	A	V
41		5	
	8		1
42		6	
	186		21

1" = 10' VERT.
1" = 20' HORIZ.

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CROSS SECTIONS HOMESTEAD ROAD

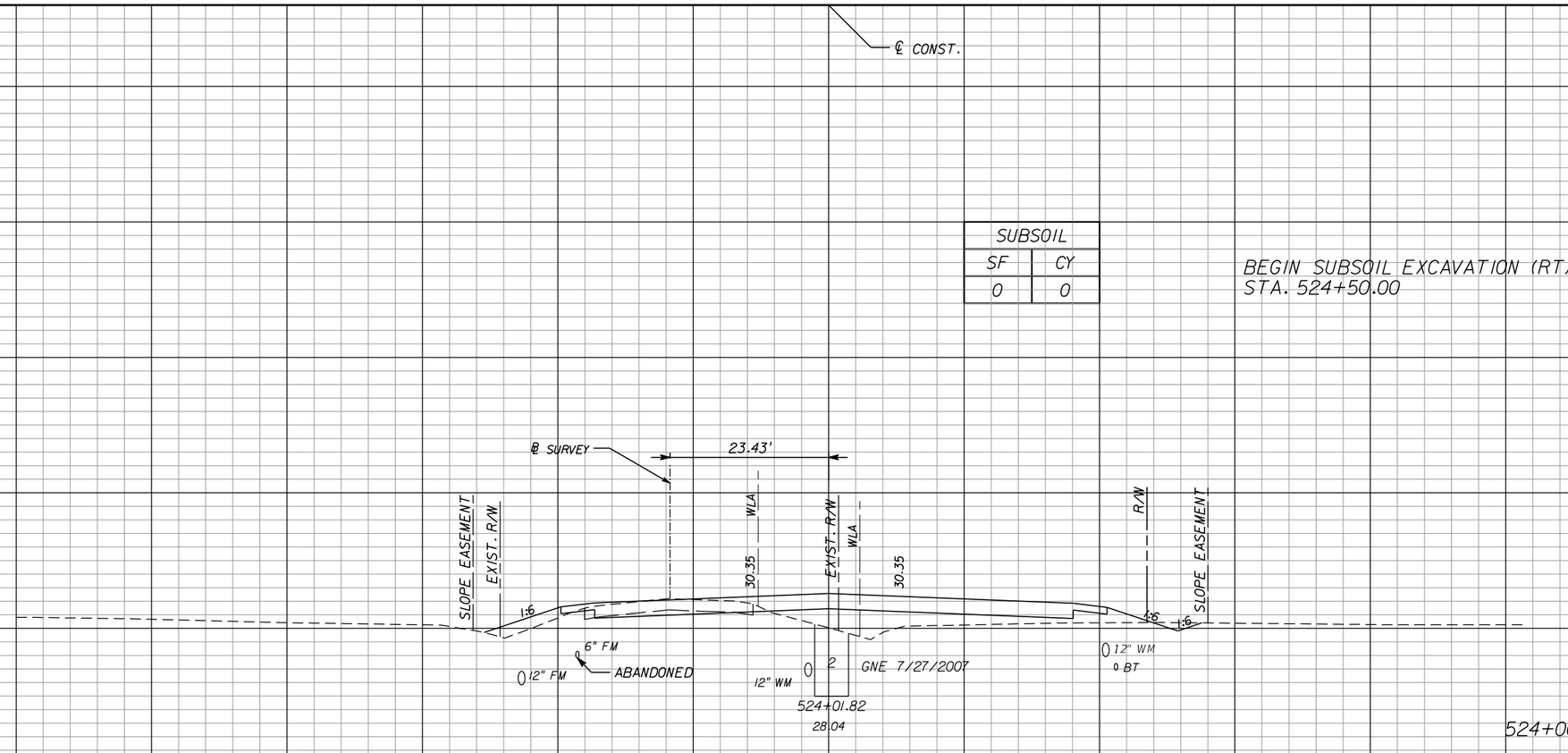
SHEET NO. 144

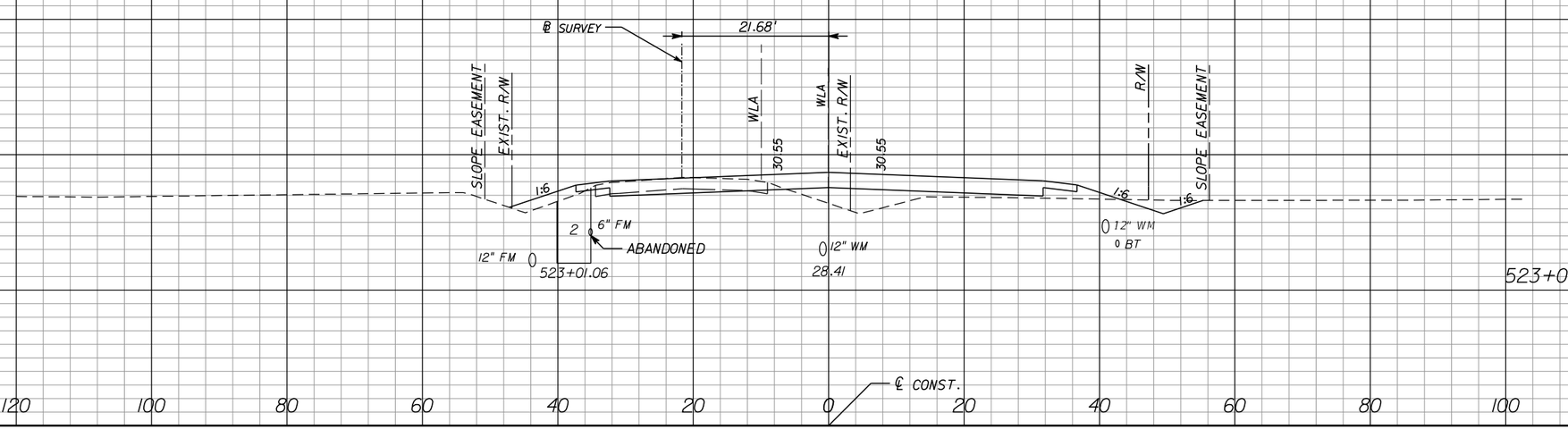
9/19/2016 11:15:22 AM PW:\2021l6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn

Regular Exc.		Embankment	
A	V	A	V

SUBSOIL	
SF	CY
0	0

BEGIN SUBSOIL EXCAVATION (RT)
STA. 524+50.00





27		58			
	108		181		
31		40			
	134		82		

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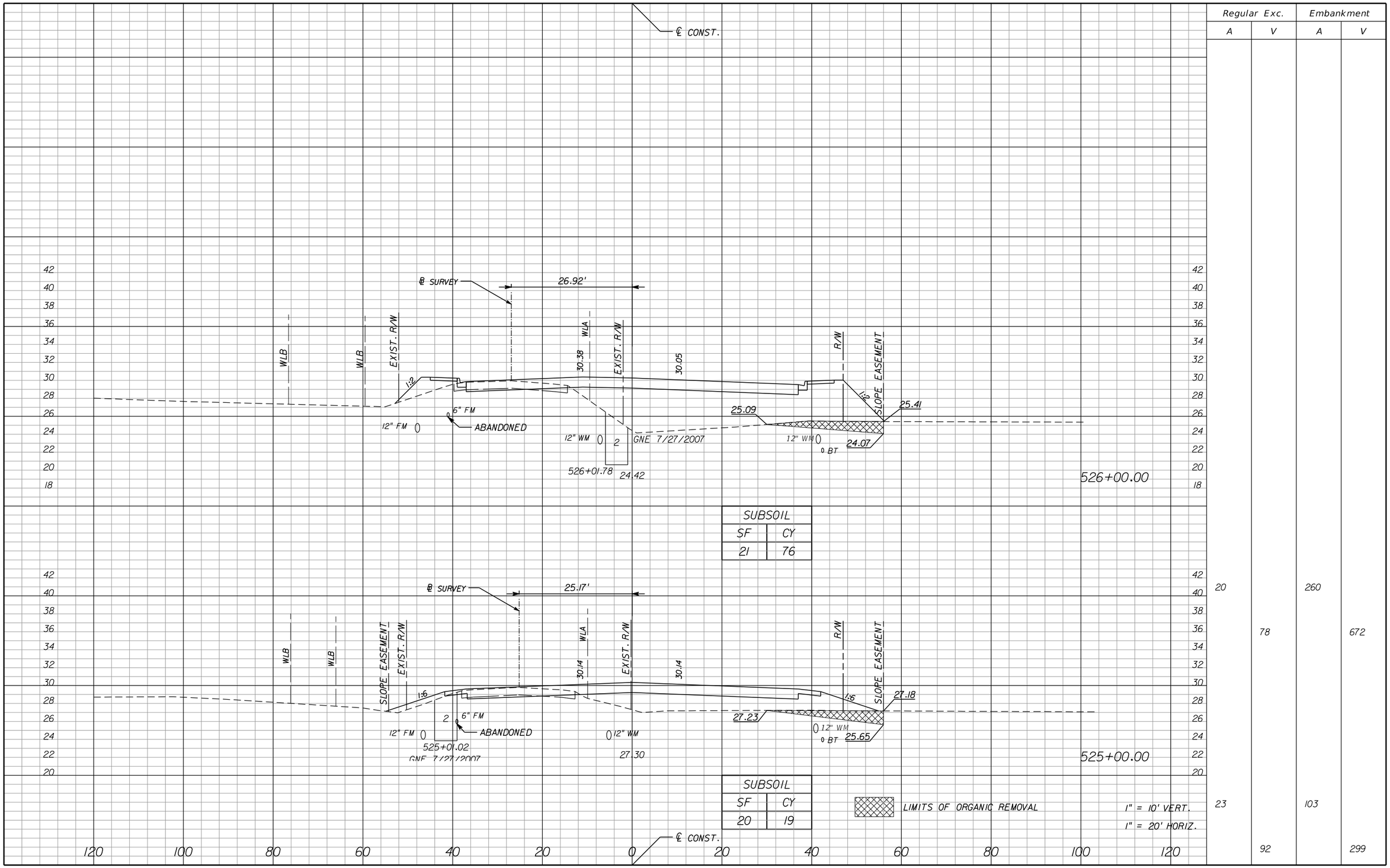
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
145



Regular Exc.		Embankment	
A	V	A	V
20	78	260	672
23	92	103	299

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1500 MONROE STREET
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DEPARTMENT
of
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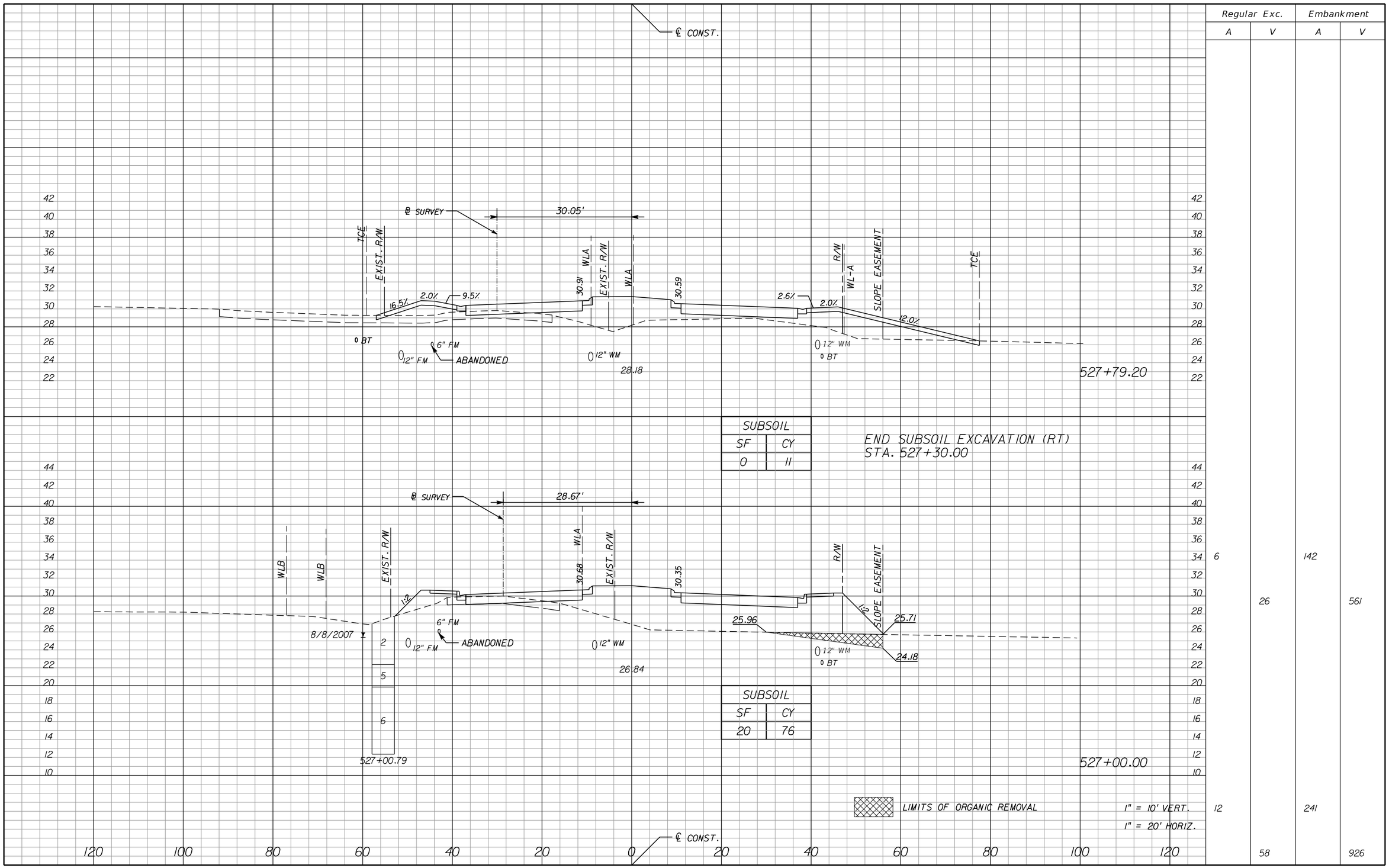
EGILBERT

9/19/2016 11:15:23 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd0I.dgn

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 146

Regular Exc.		Embankment	
A	V	A	V



12		241			
58		926			

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Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
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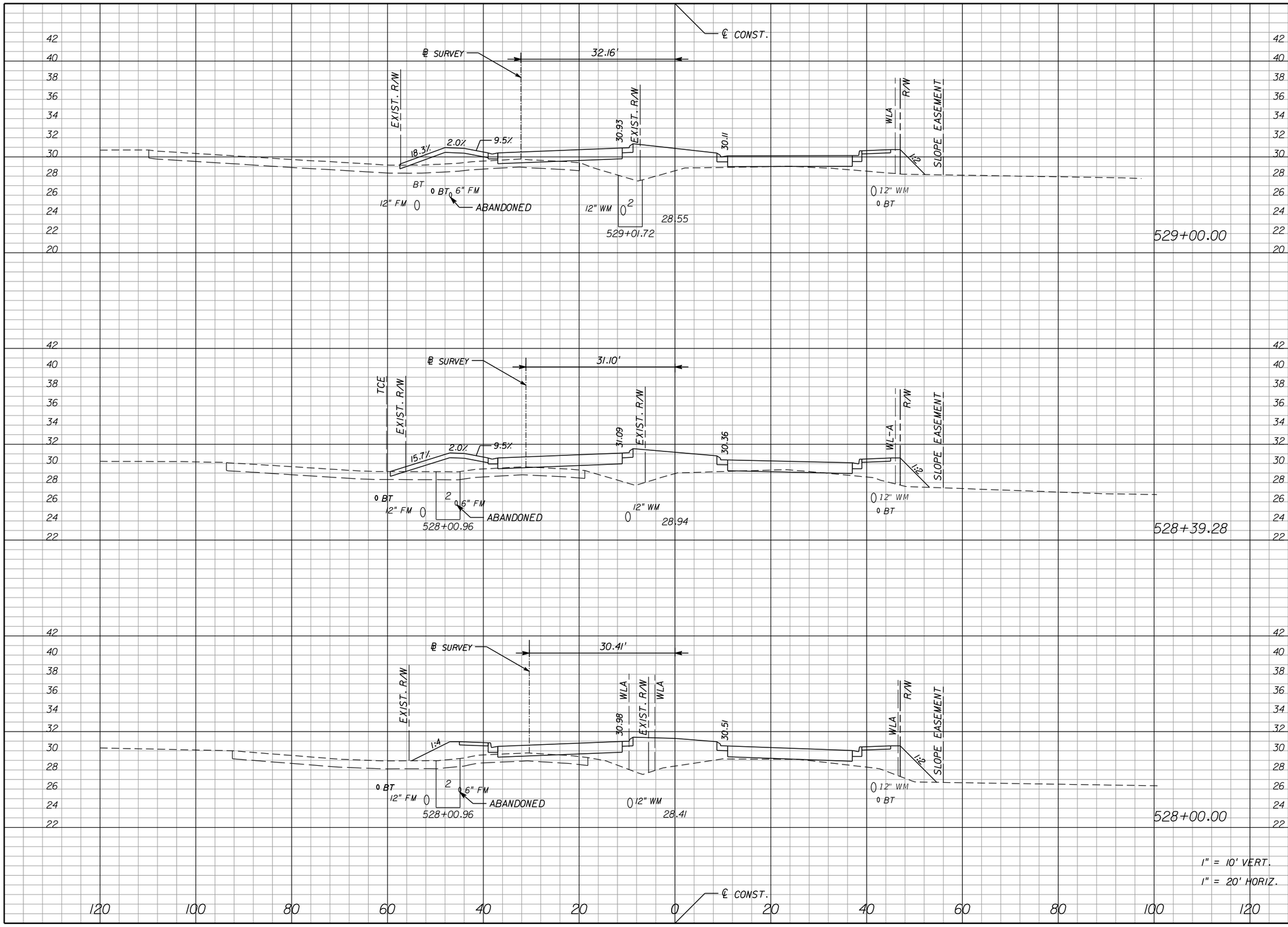
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 147

9/19/2016 11:15:24 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	4	8	101	235
	4		107	
		5		167
	3		122	
	4			102

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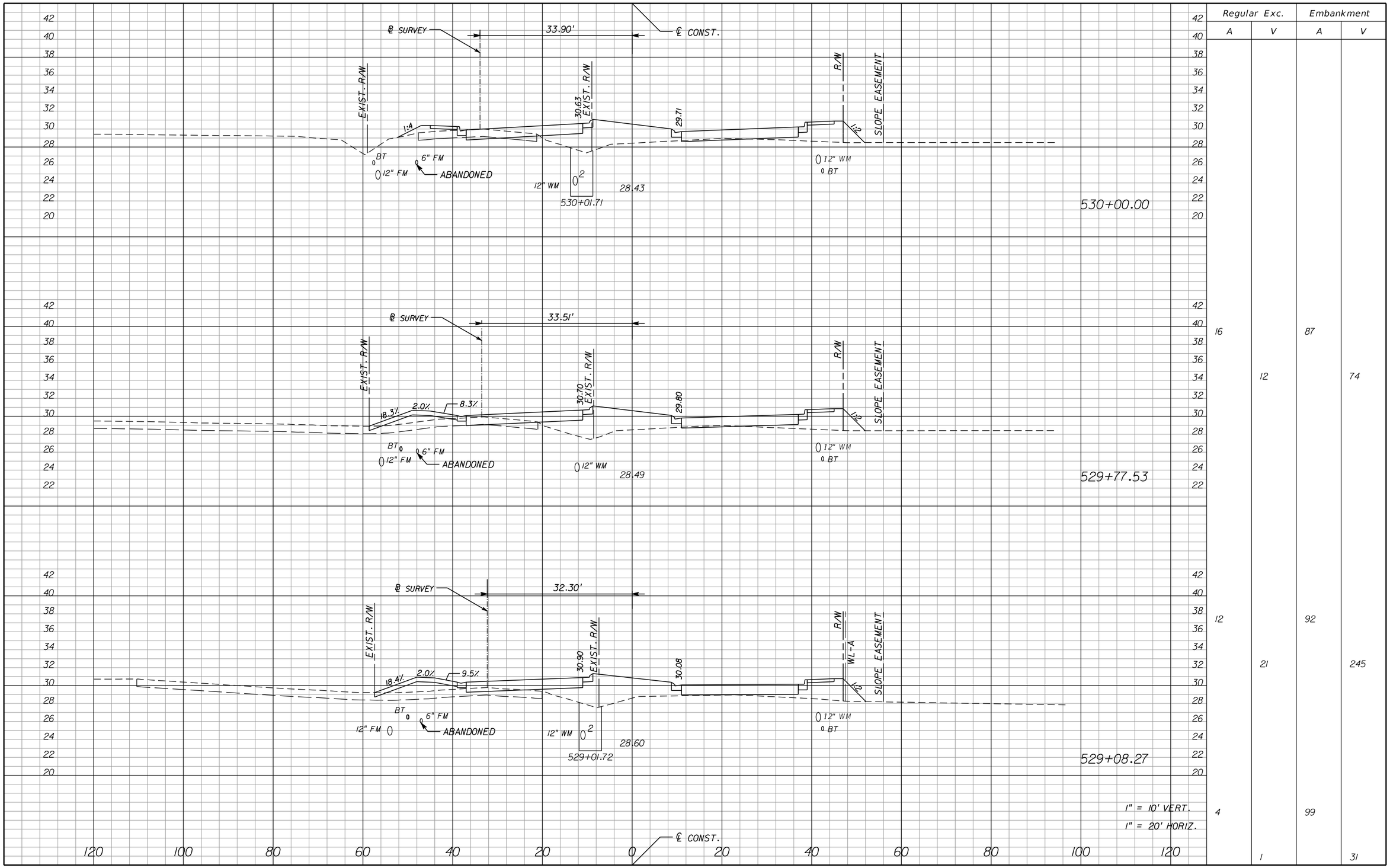
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 148

EGILBERT 9/19/2016 11:5:25 AM PW:\2021\6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	16		87	
		12		74
	12		92	
		21		245
	4		99	
		1		31

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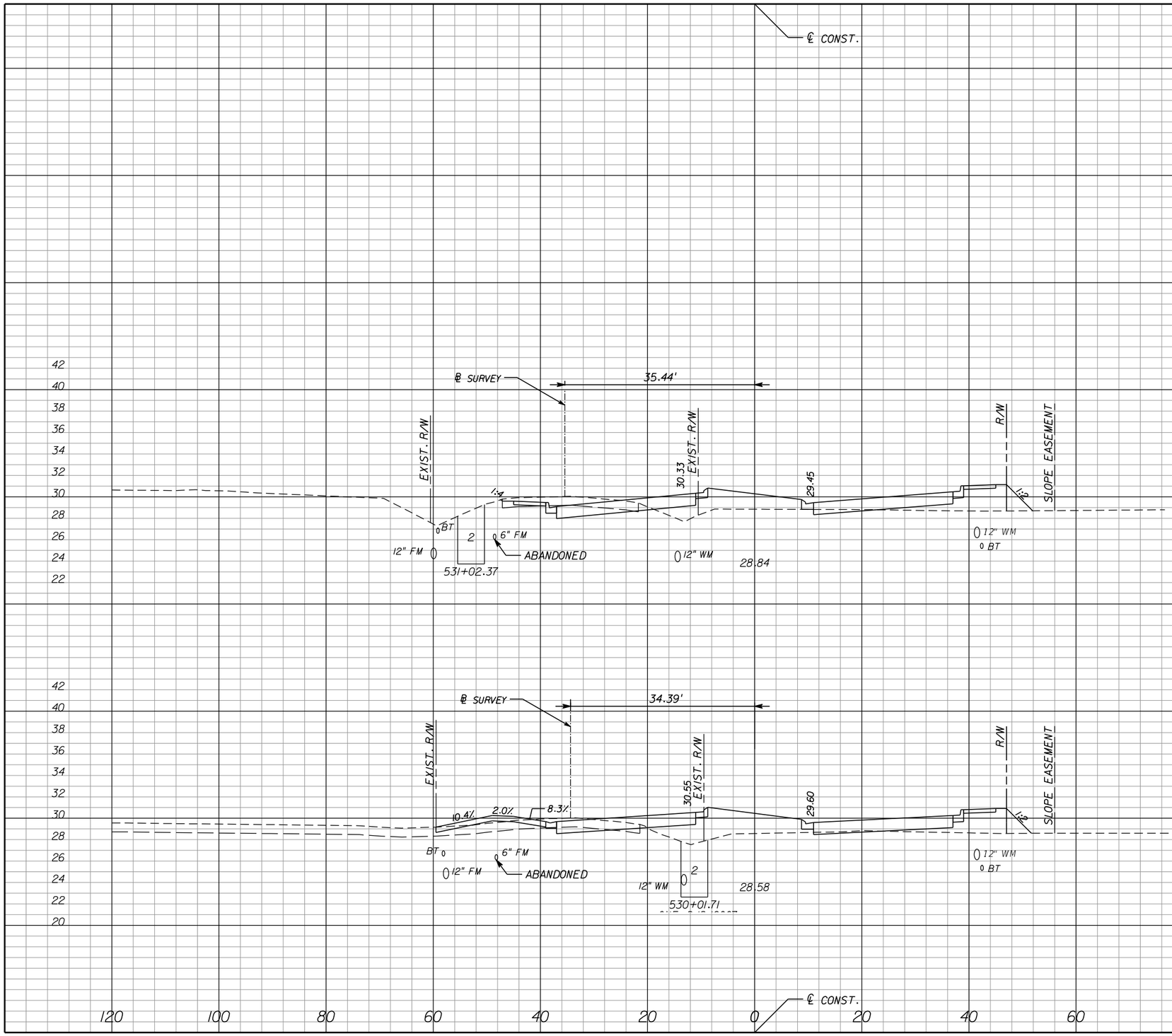
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 149

9/19/2016 11:15:26 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
35	78	66	191
24		77	
	20		84

1" = 10' VERT.
1" = 20' HORIZ.

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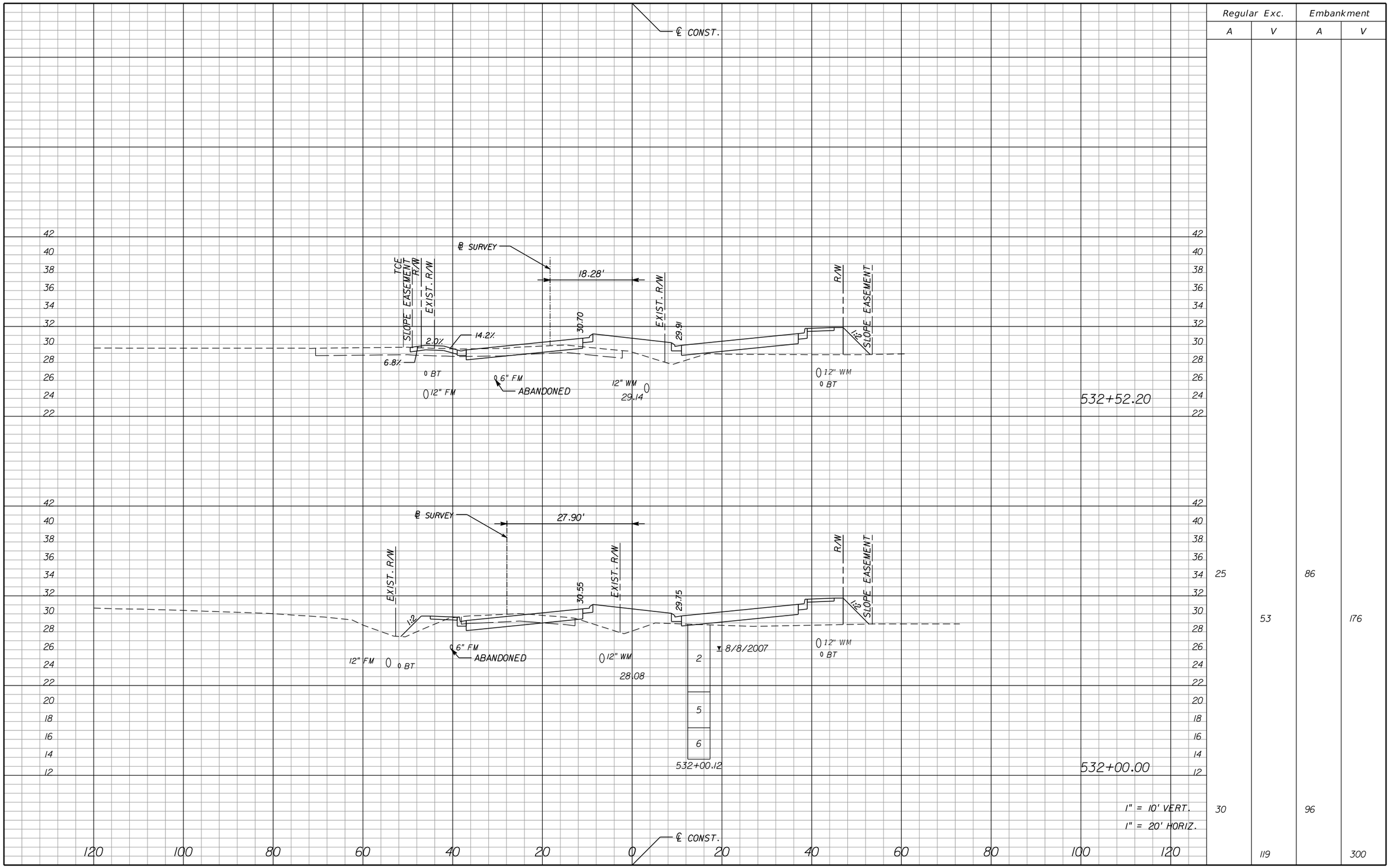
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 150



Regular Exc.		Embankment	
A	V	A	V
25	53	86	176
30	119	96	300

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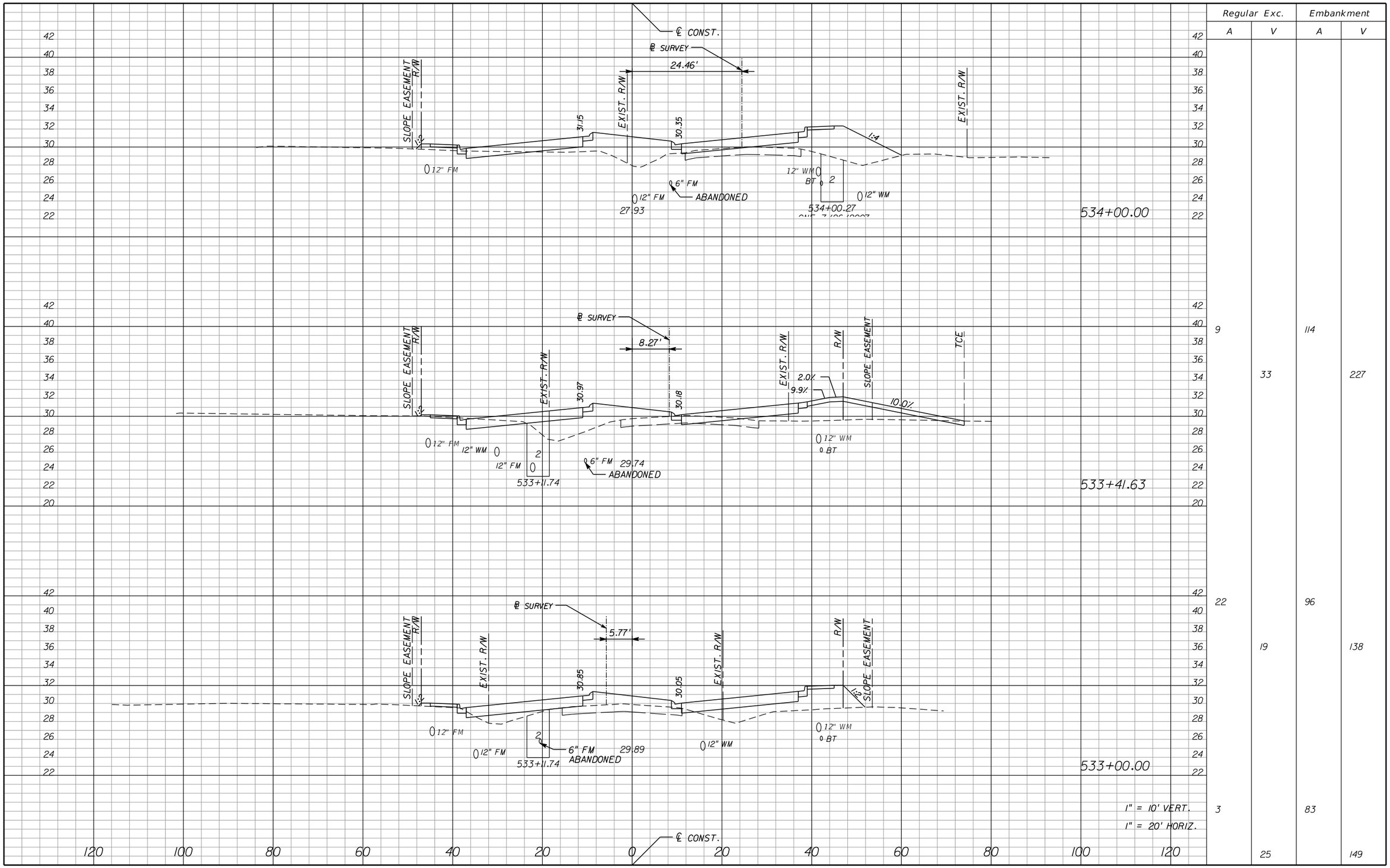
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 151

9/19/2016 11:15:28 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	9	33	114	227
	22	19	96	138
1" = 10' VERT. 1" = 20' HORIZ.	3	25	83	149

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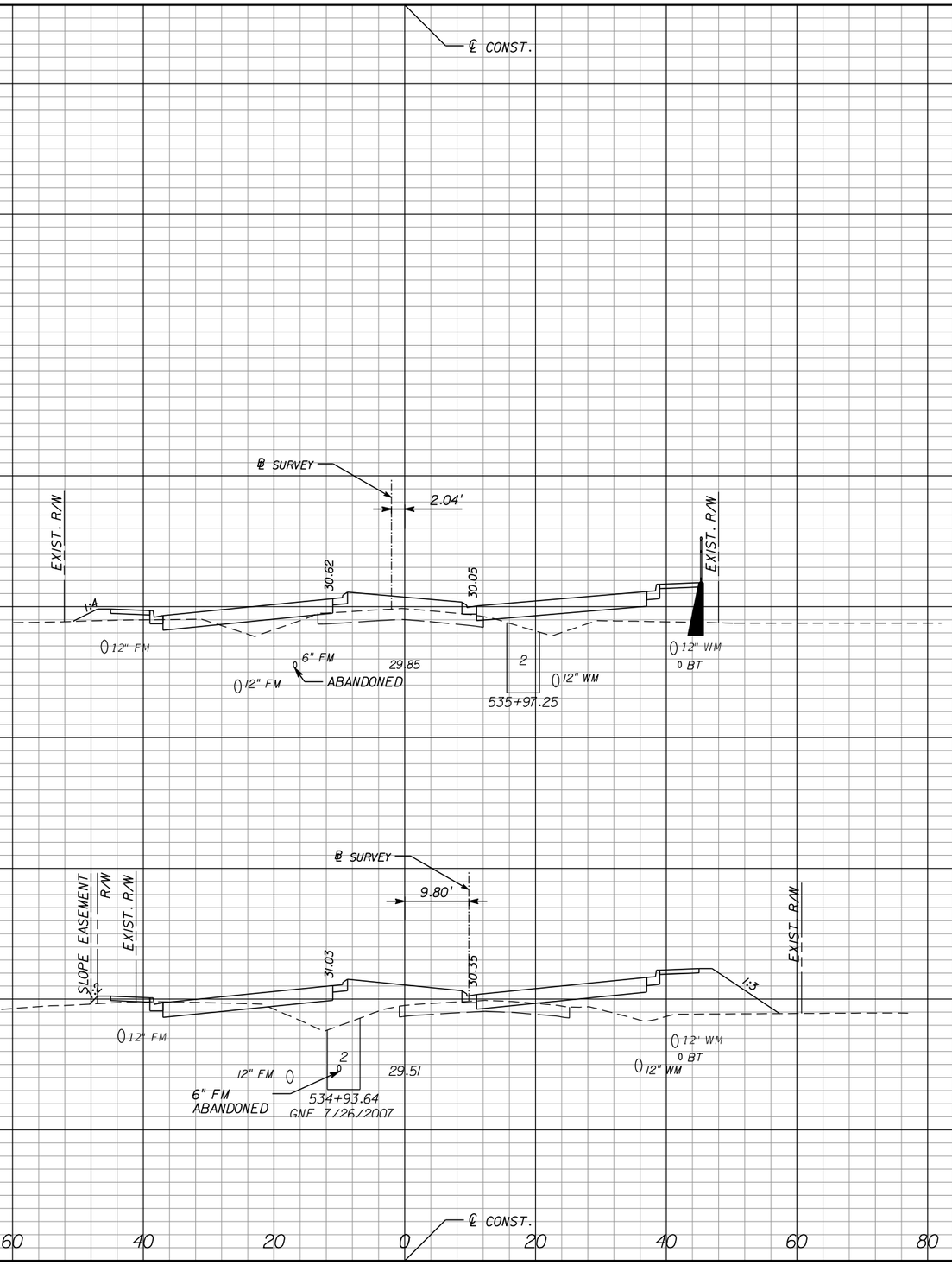
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 152



Regular Exc.		Embankment	
A	V	A	V
8		74	
	46		353
16		117	
	46		426

1" = 10' VERT.
1" = 20' HORIZ.

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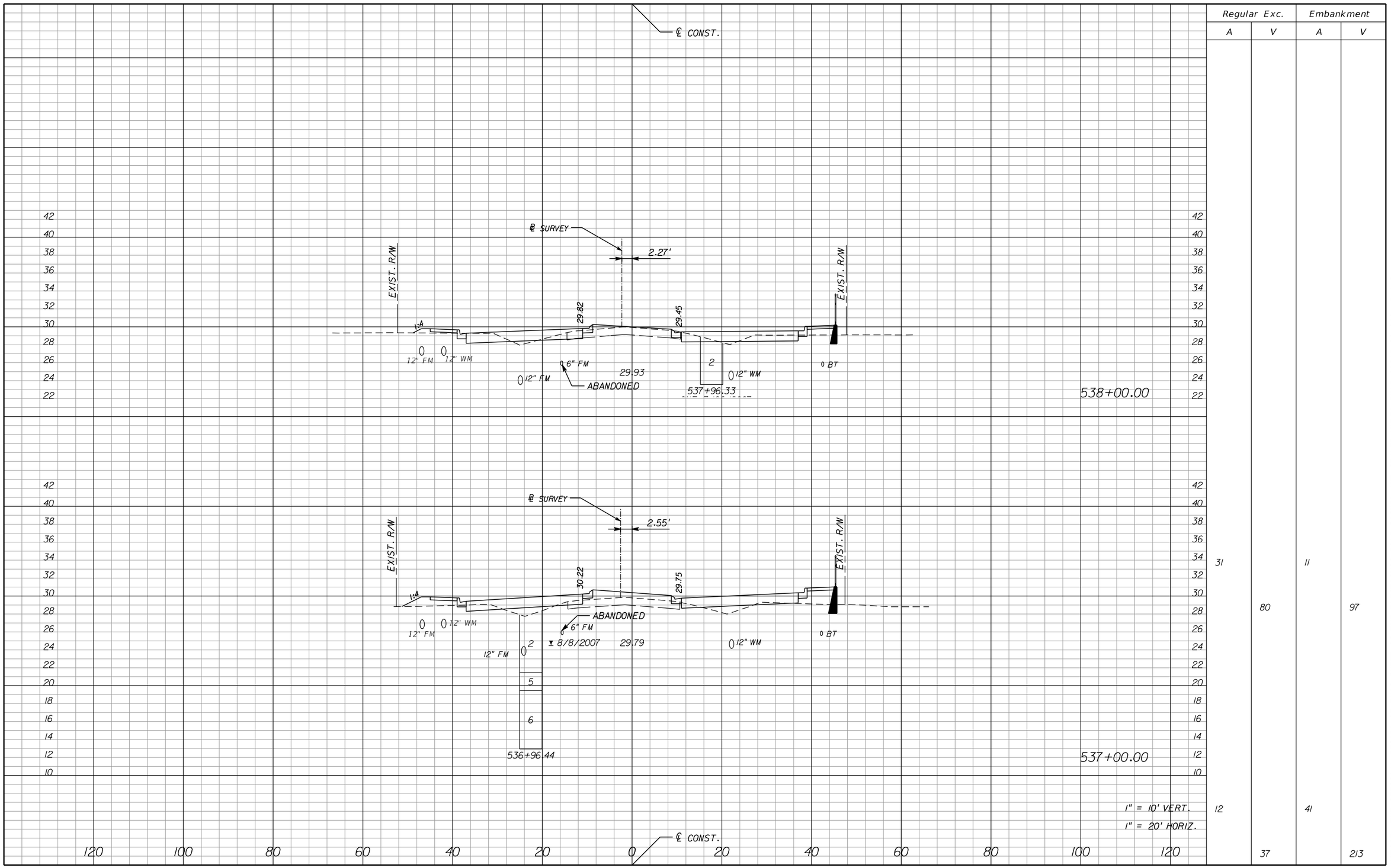
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 153

9/19/2016 11:15:30 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
31		11	
	80		97
12		41	
	37		213

1" = 10' VERT.
1" = 20' HORIZ.

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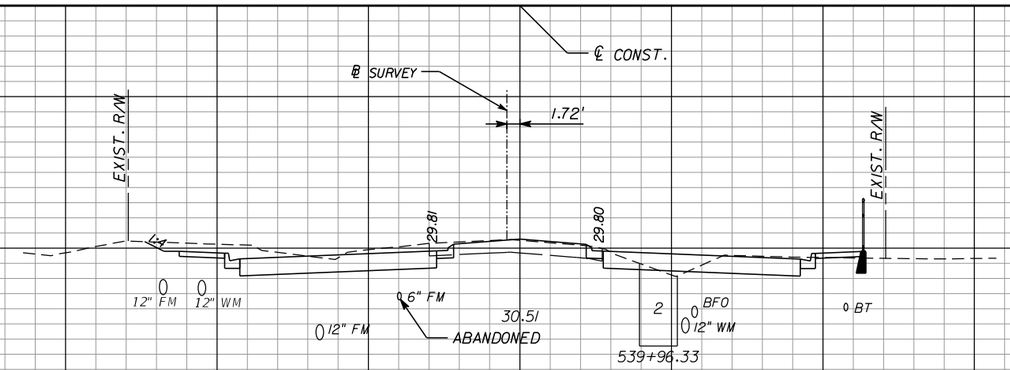
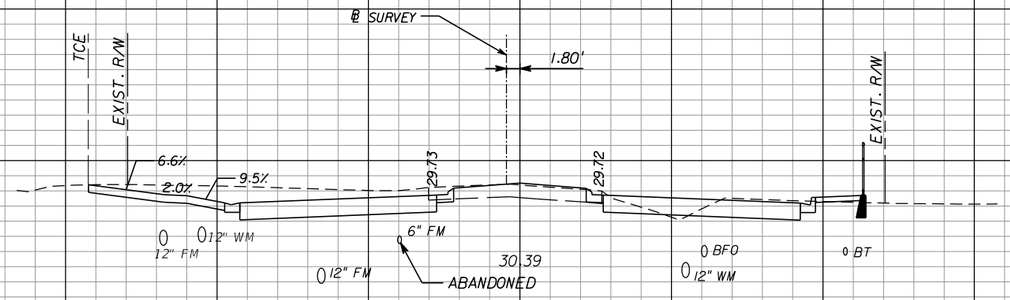
CROSS SECTIONS HOMESTEAD ROAD

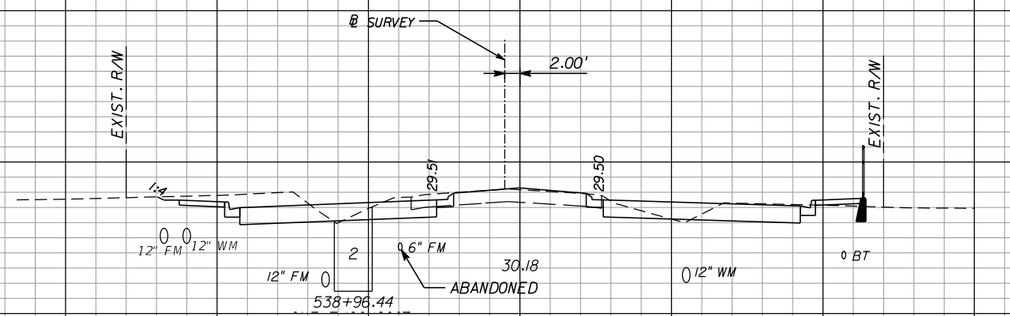
SHEET NO. 154



540+00.00

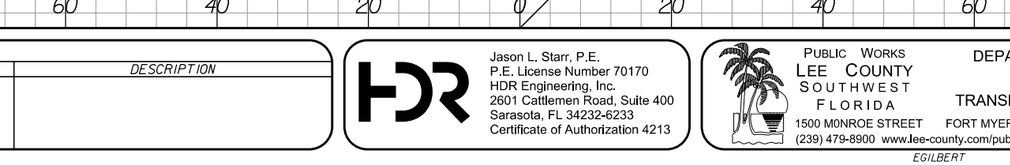


539+73.11



539+00.00

1" = 10' VERT.
1" = 20' HORIZ.



	Regular Exc.		Embankment	
	A	V	A	V
540+00.00				
539+73.11	74		2	
		84		2
539+00.00	96		2	
		219		5
	66		2	
		180		24

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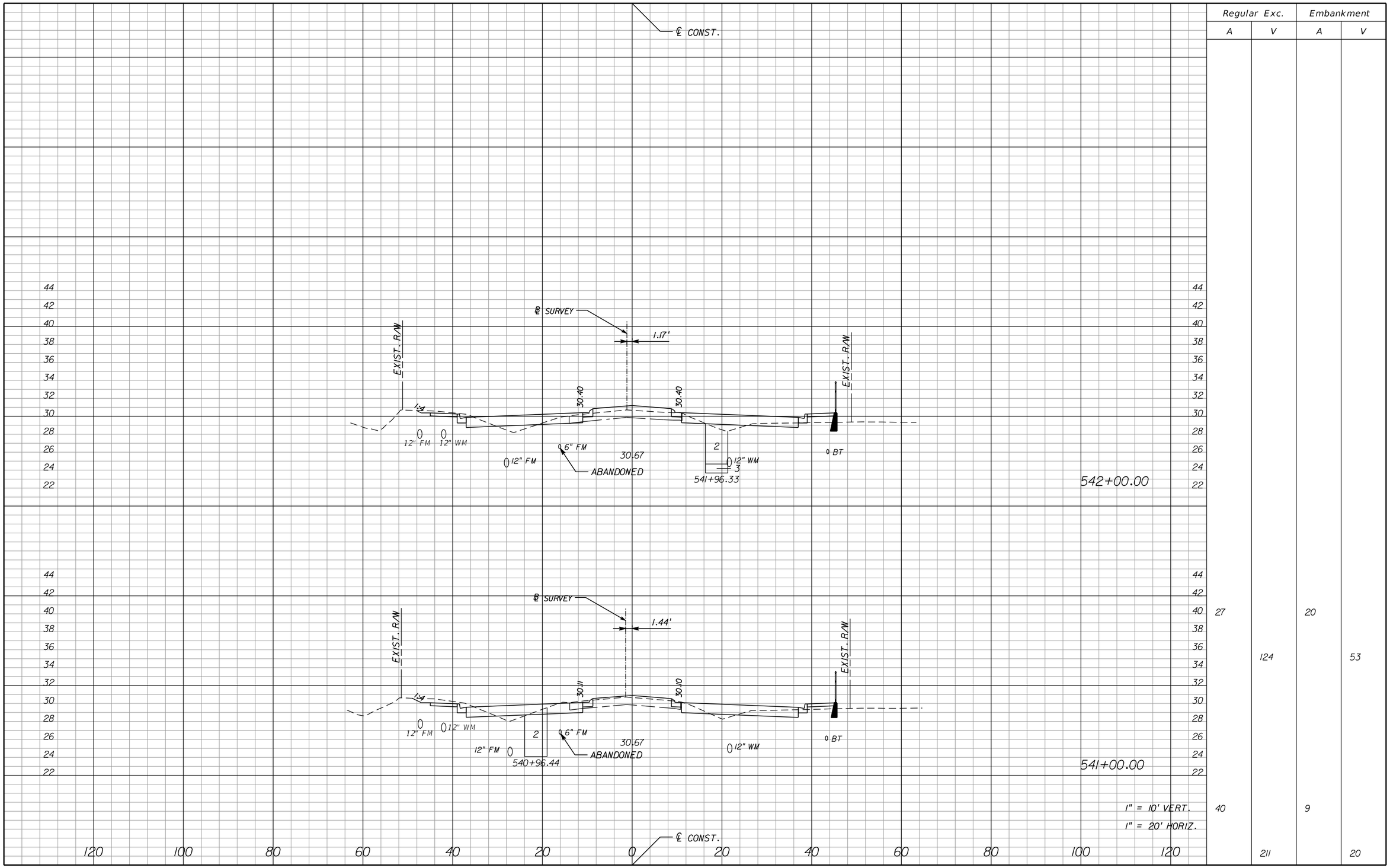
EGILBERT

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 155

9/19/2016 11:15:32 AM PW:\2016\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
27		20	
	124		53
40		9	
	211		20

1" = 10' VERT.
1" = 20' HORIZ.

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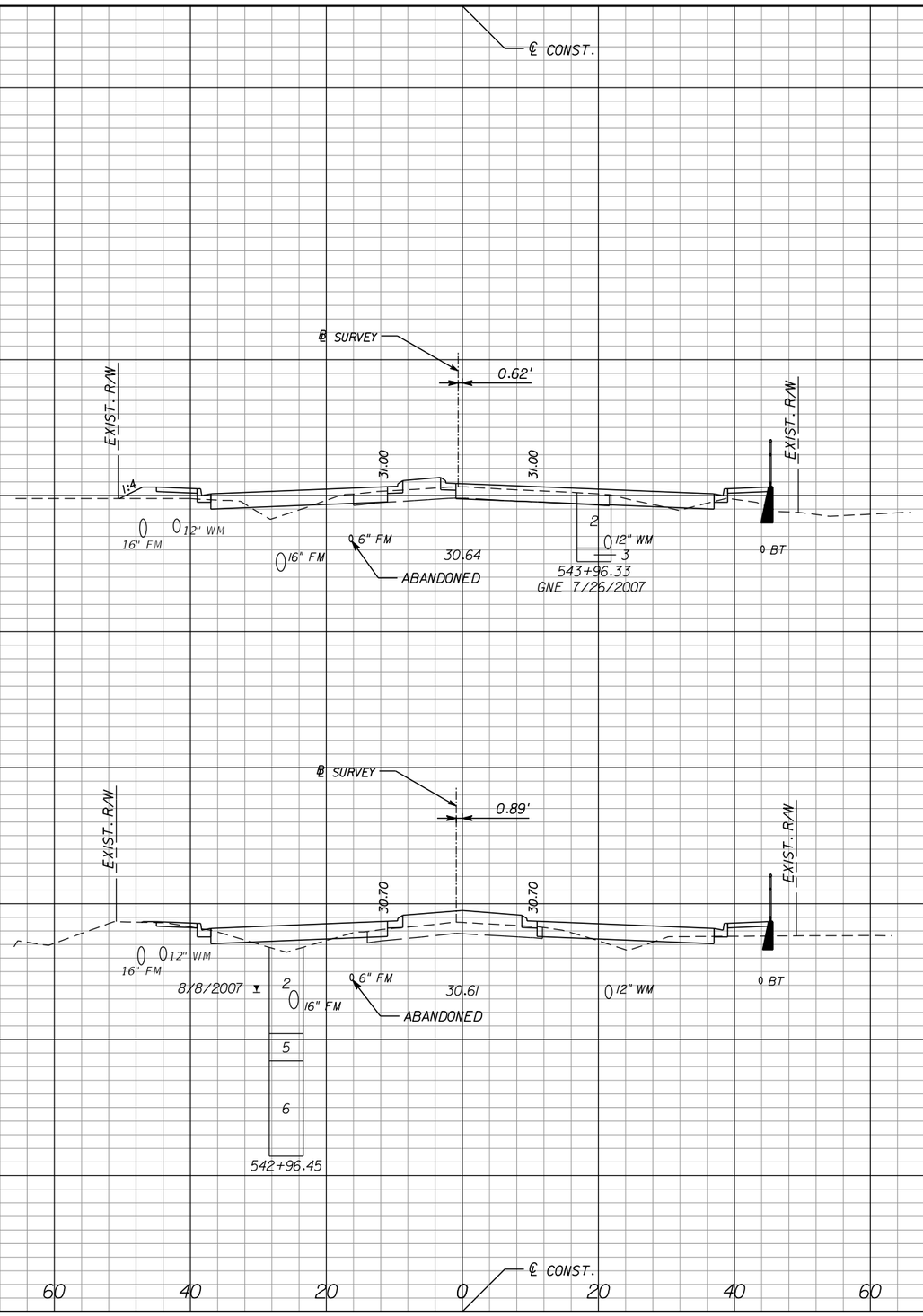
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 156

9/19/2016 11:15:33 AM PW:\2021l6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
36		18	
	96		85
17		28	
	80		87

1" = 10' VERT.
1" = 20' HORIZ.

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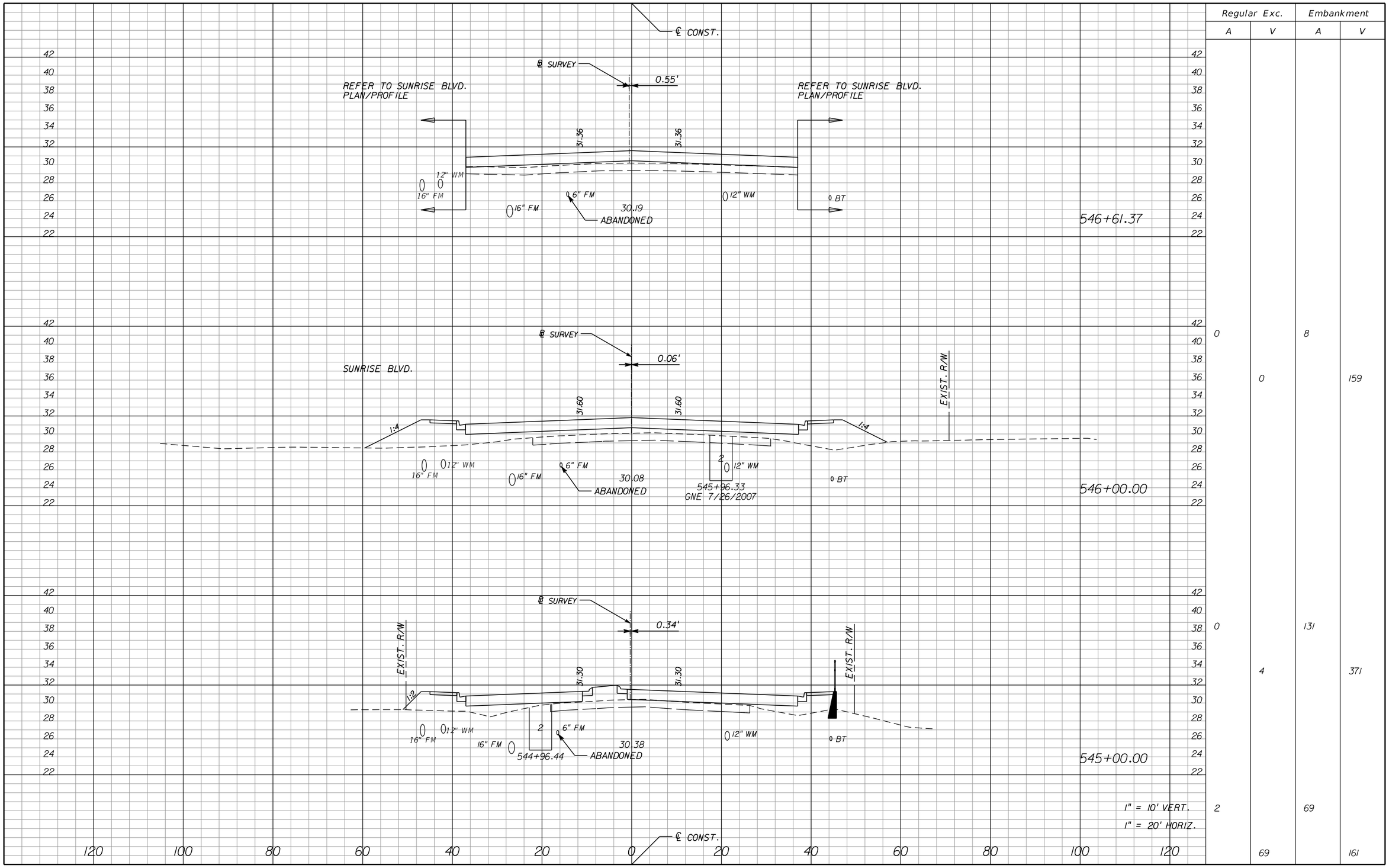
DEPARTMENT of TRANSPORTATION

EGILBERT

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 157

9/19/2016 11:15:35 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	0		8	
		0		159
	0		131	
		4		371
	2		69	
		69		161

1" = 10' VERT.
1" = 20' HORIZ.

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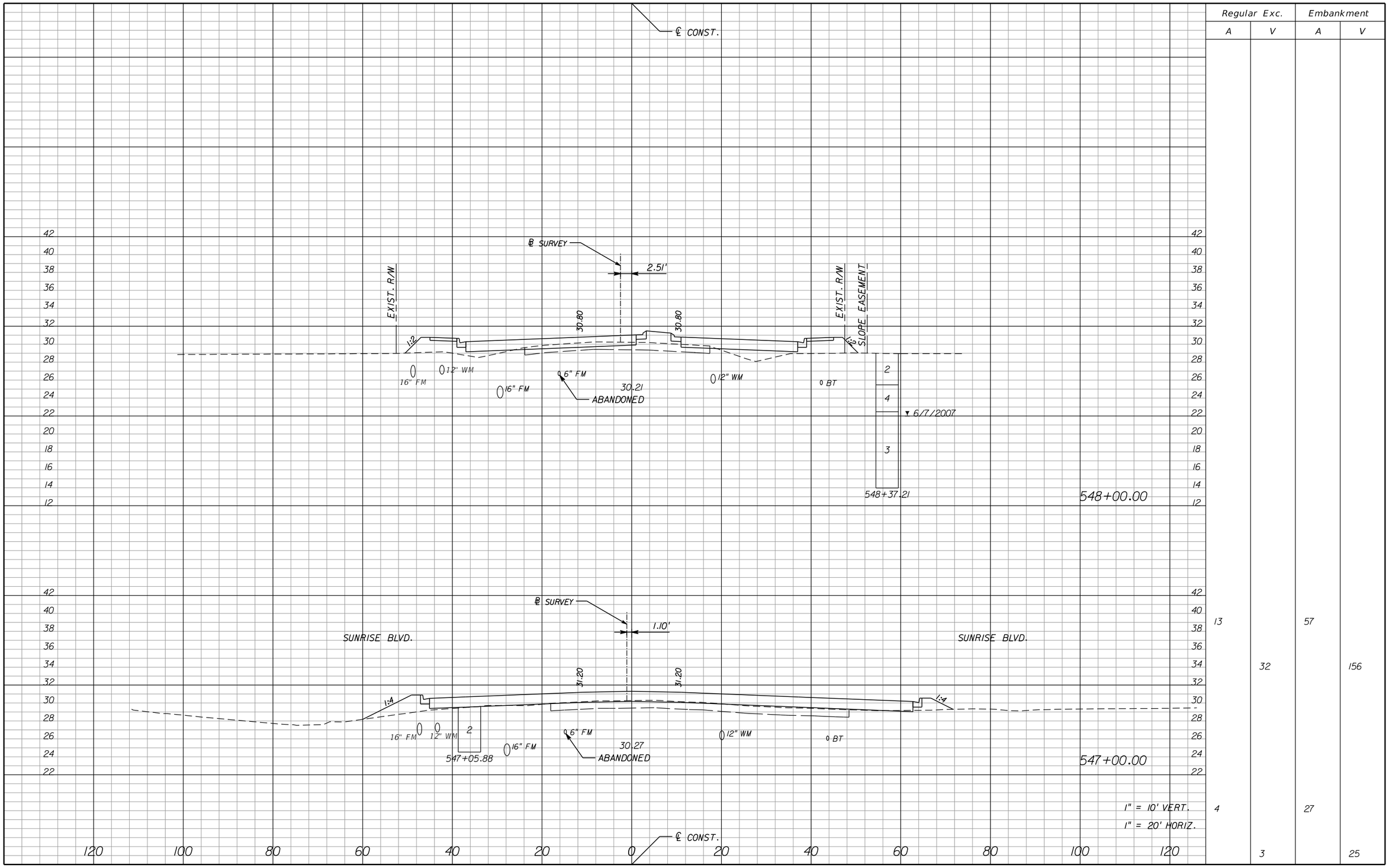
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 158

EGILBERT 9/19/2016 11:5:36 AM PW:\2021l6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd0l.dgn



Regular Exc.		Embankment	
A	V	A	V
13		57	
	32		156
4		27	
	3		25

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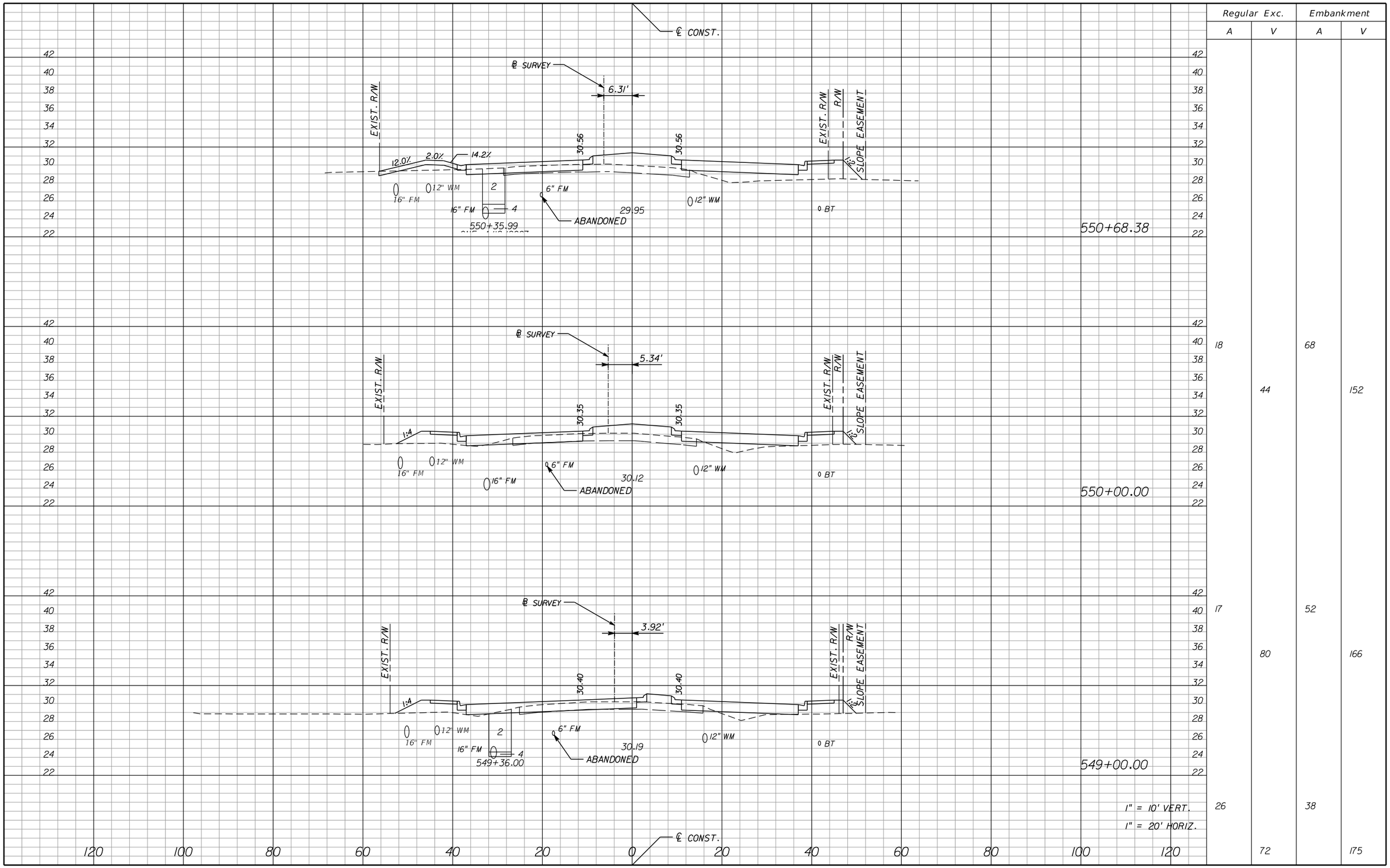
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 159

9/19/2016 11:5:37 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
550+68.38				
550+00.00	18	44	68	152
549+00.00	17	80	52	166
	26	72	38	175

1" = 10' VERT.
1" = 20' HORIZ.

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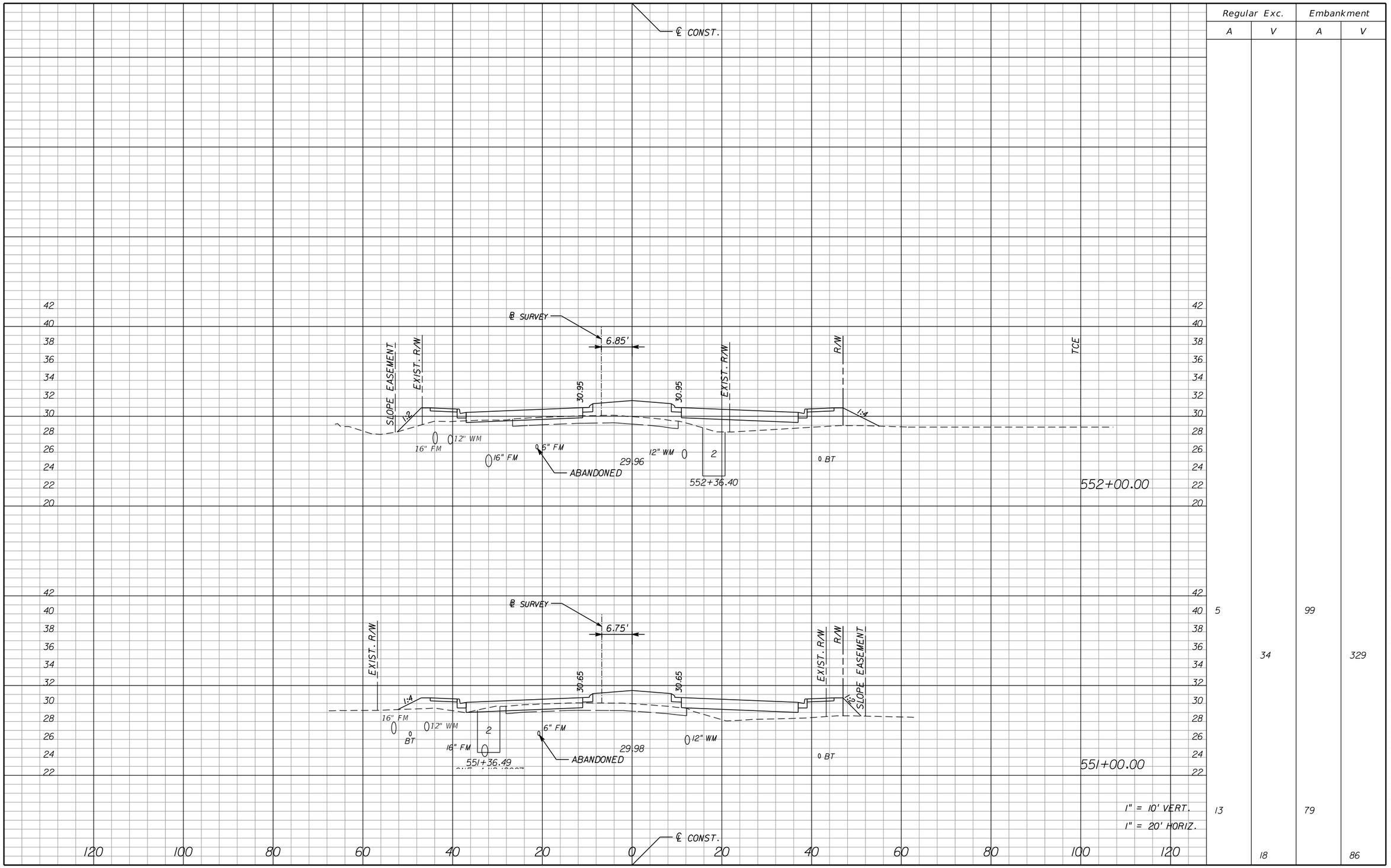
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 160

9/19/2016 11:15:38 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
5		99	
	34		329
13		79	
	18		86

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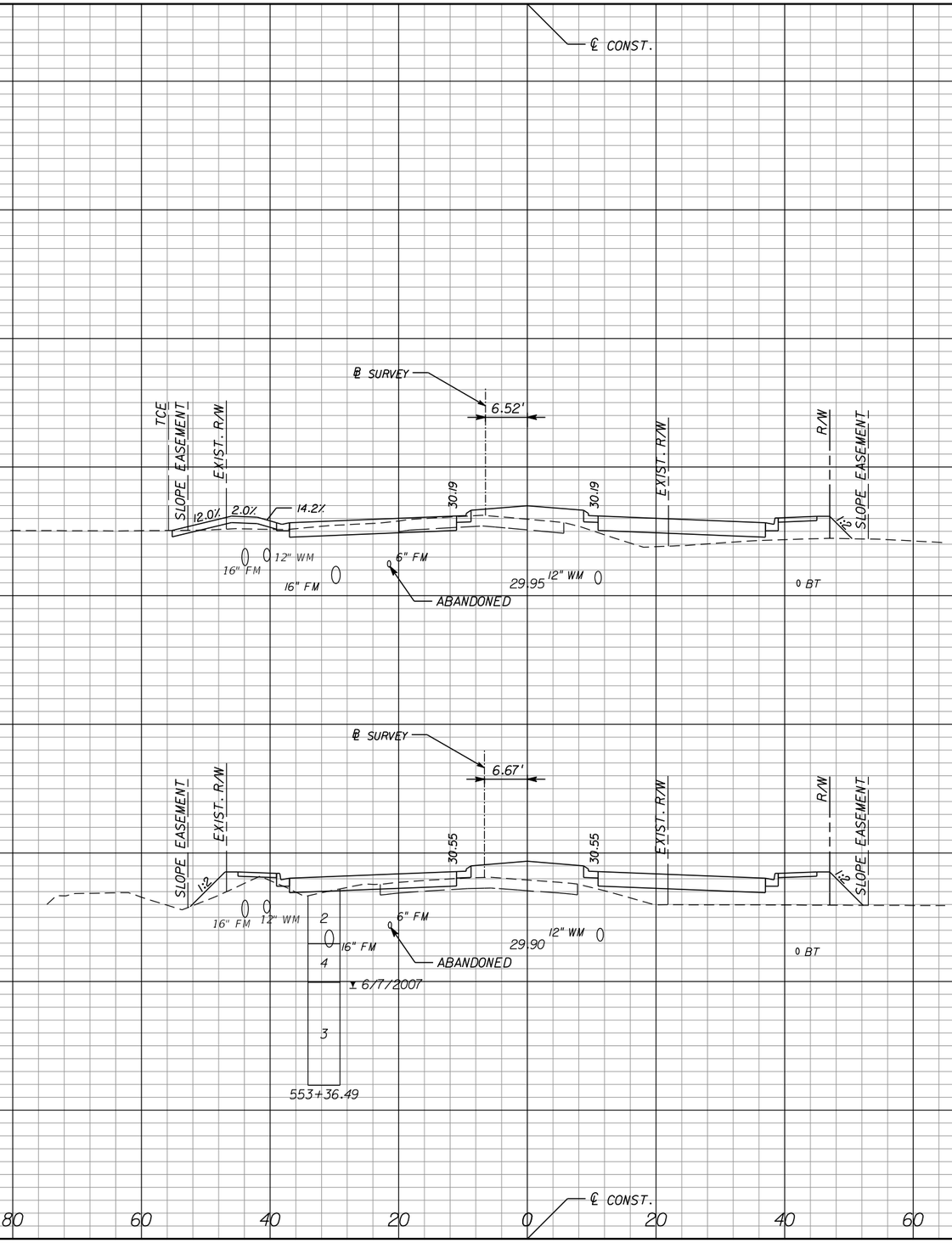
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
161



Regular Exc.		Embankment	
A	V	A	V
25		55	
	56		240
9		88	
	25		346

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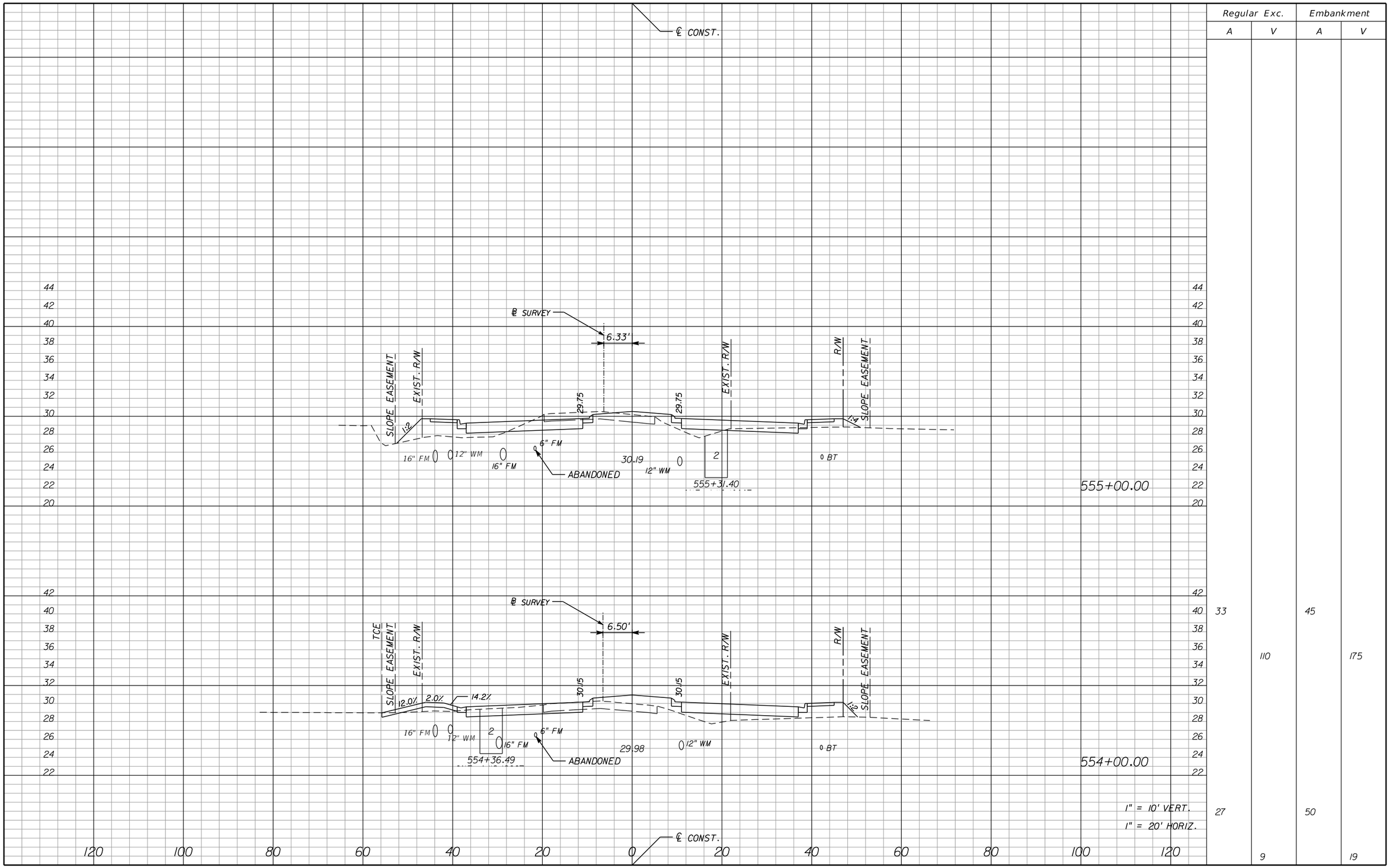
EGILBERT

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 162

9/19/2016 11:15:40 AM PW:\2021I6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
33		45	
	110		175
27		50	
	9		19

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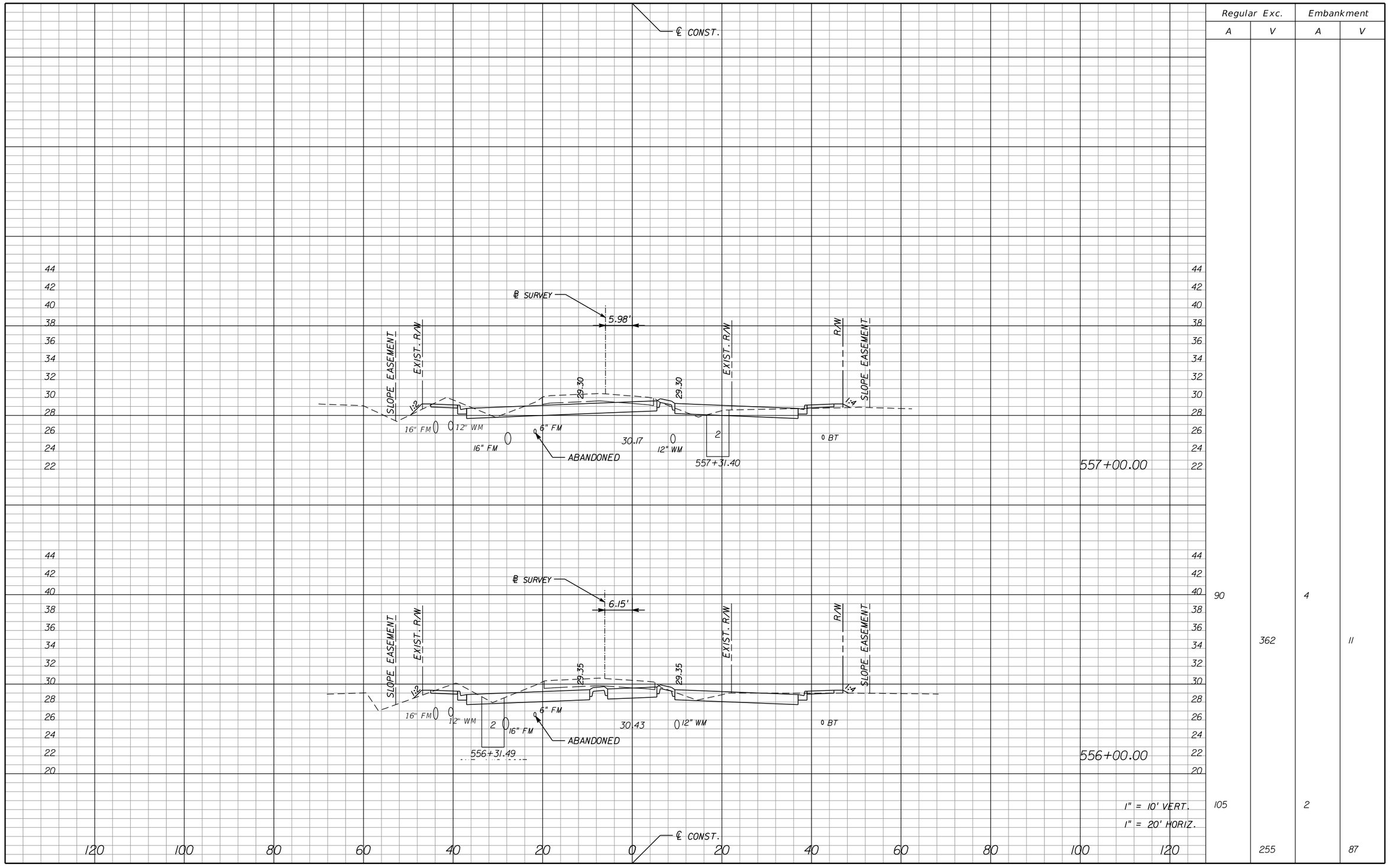
9/19/2016 11:15:41 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
163



Regular Exc.		Embankment	
A	V	A	V
90		4	
	362		11
105		2	
	255		87

1" = 10' VERT.
1" = 20' HORIZ.

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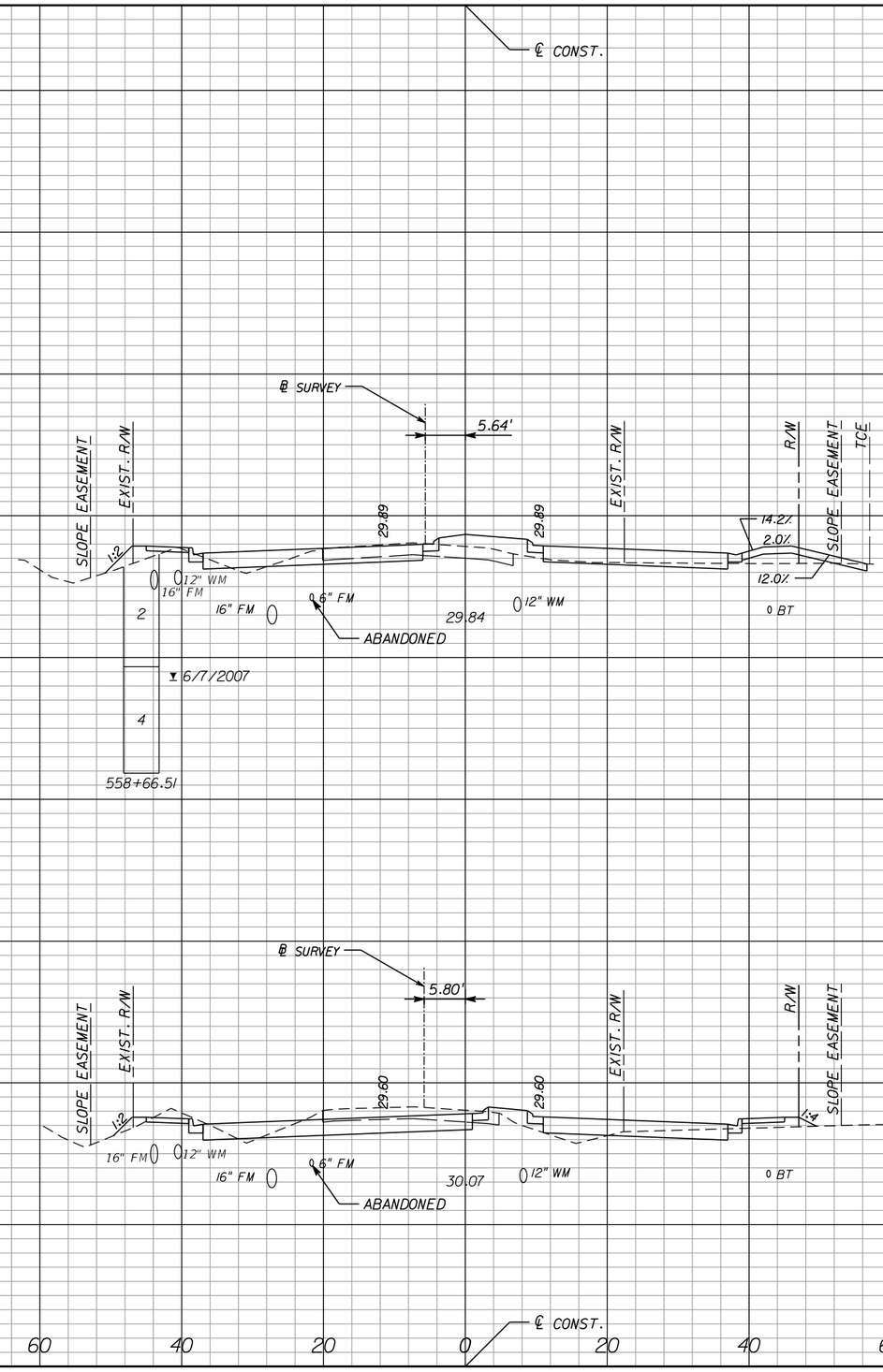
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 164

EGILBERT 9/19/2016 11:5:42 AM PW:\2021l6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
32		25	
	165		68
63		15	
	284		34

1" = 10' VERT.
1" = 20' HORIZ.

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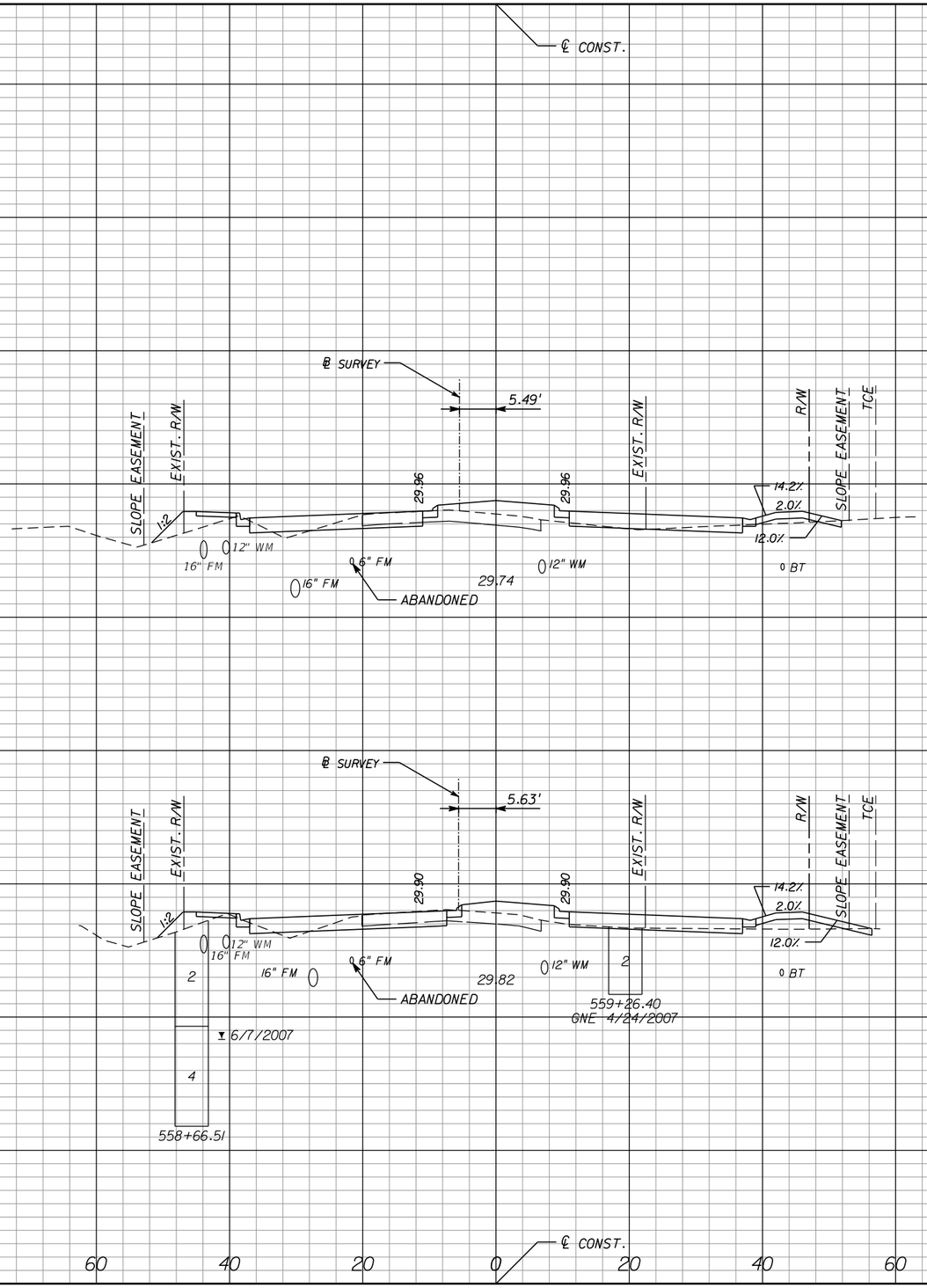
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 165

9/19/2016 11:5:43 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn

Regular Exc.		Embankment	
A	V	A	V
24		30	
	79		84
29		27	
	7		6



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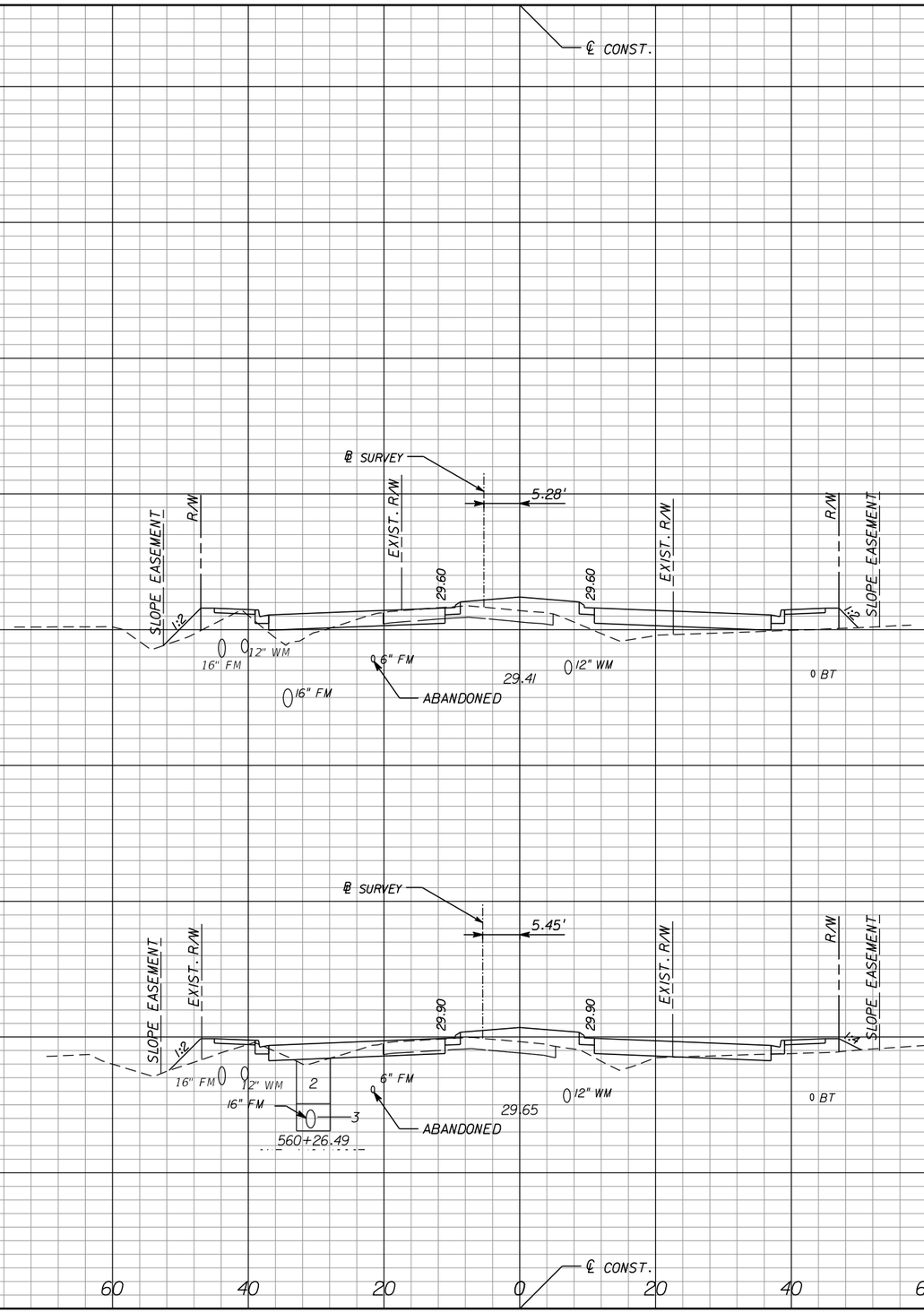
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 166

9/19/2016 11:15:44 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
16		61	
	67		190
21		41	
	17		27

1" = 10' VERT.
1" = 20' HORIZ.

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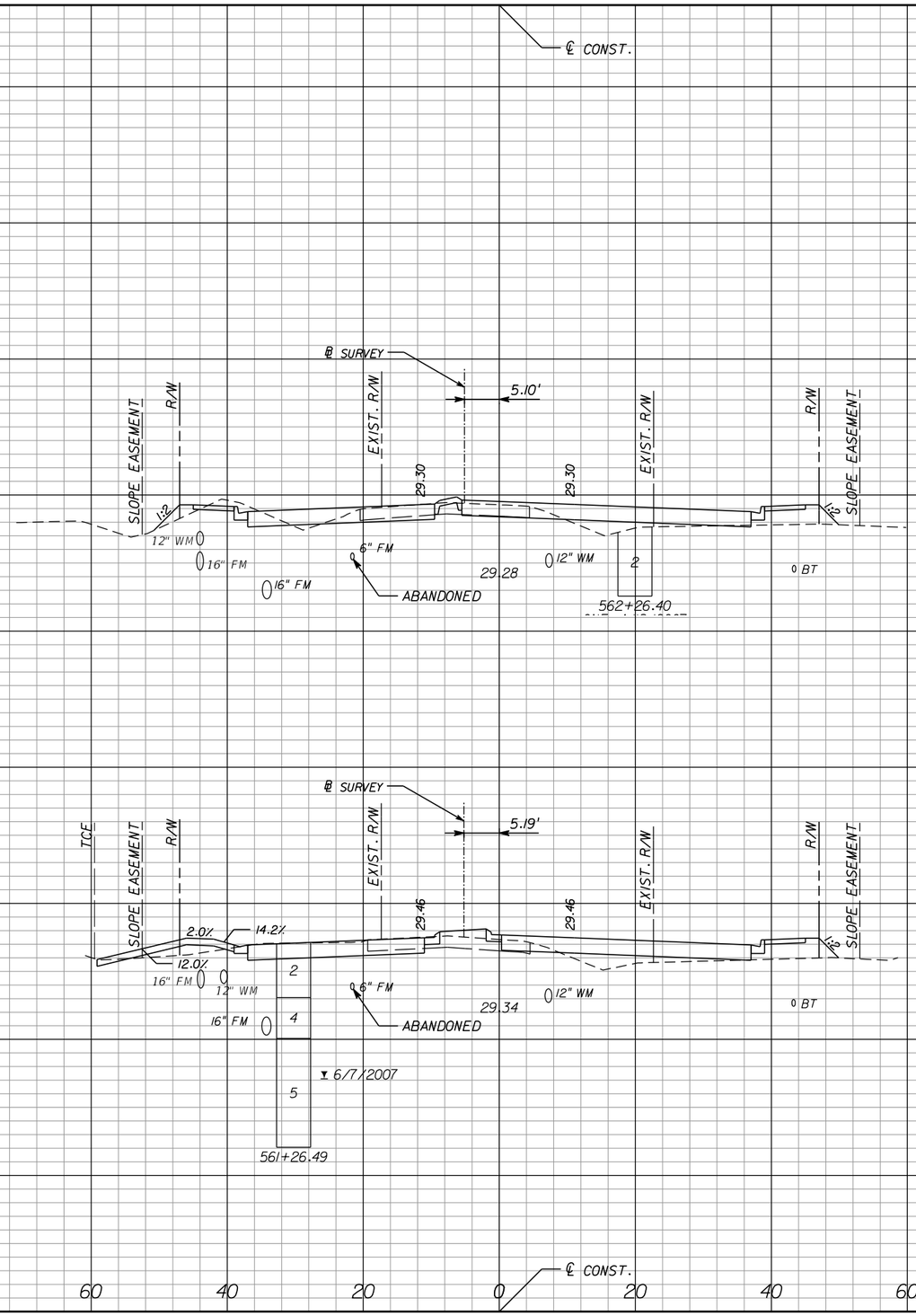
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 167



Regular Exc.		Embankment	
A	V	A	V
37		25	
	72		57
38		34	
	47		84

1" = 10' VERT.
1" = 20' HORIZ.

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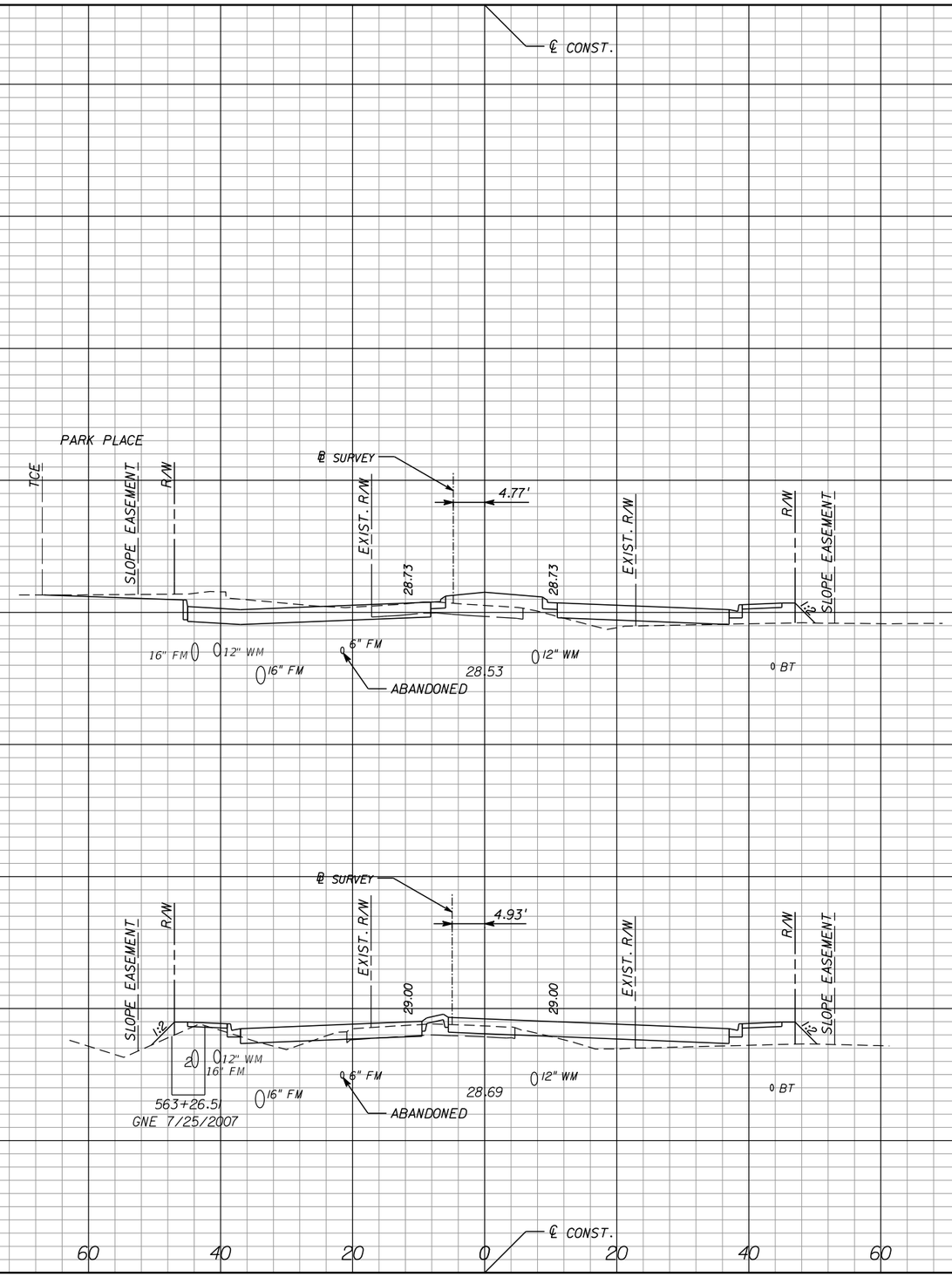
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 168

9/19/2016 11:15:46 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd0I.dgn



Regular Exc.		Embankment	
A	V	A	V
60	137	34	118
20	107	35	111

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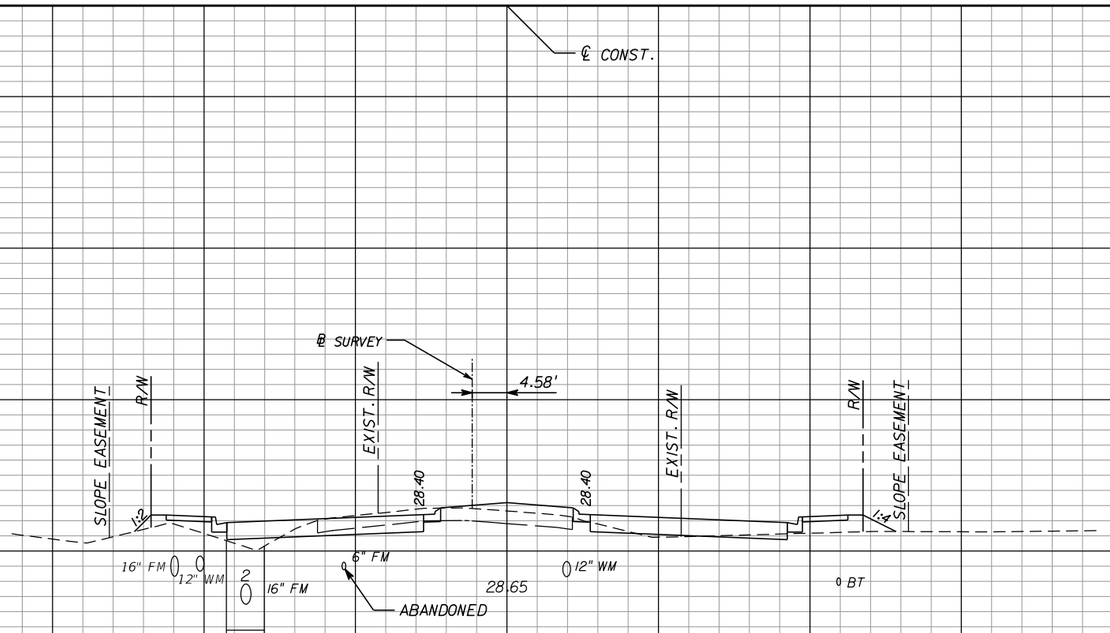
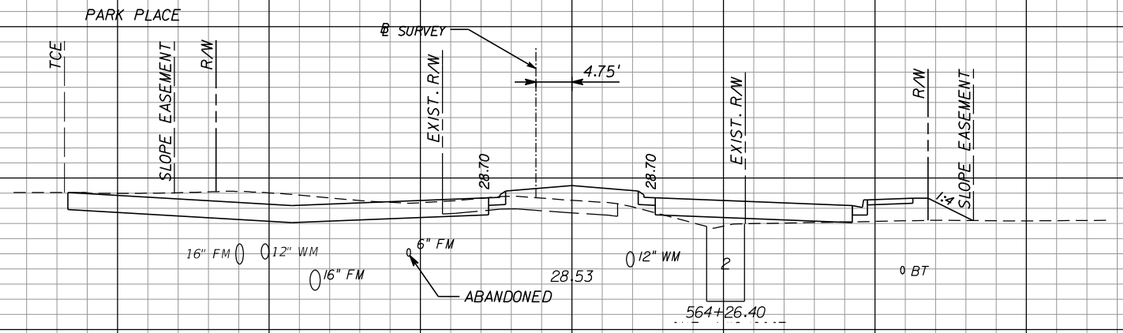
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 169

9/19/2016 11:15:47 AM PW:\2021l6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn





Regular Exc.		Embankment	
A	V	A	V
28		26	
	198		117
79		37	
	21		11

I" = 10' VERT.
I" = 20' HORIZ.

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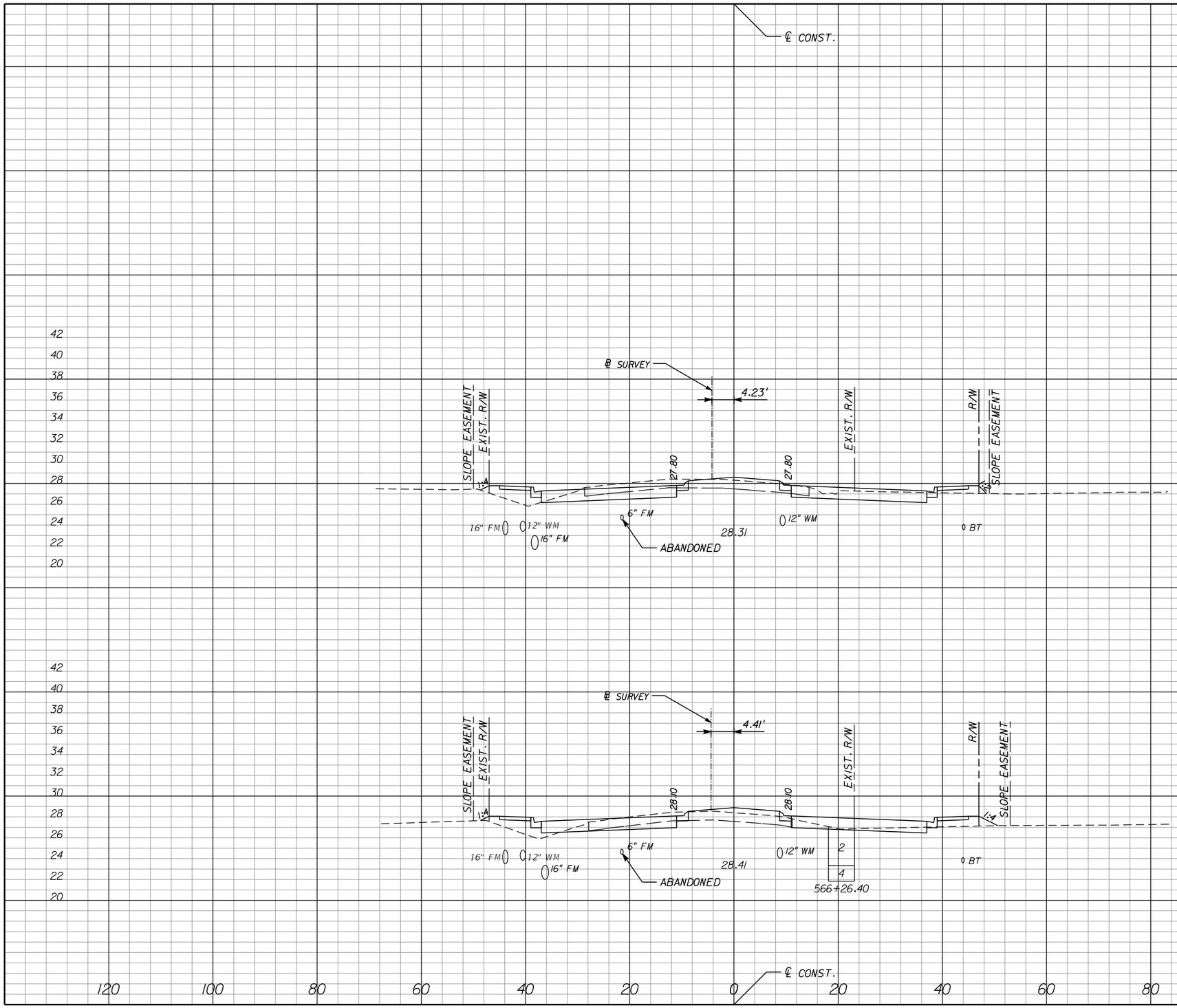
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 170

EGILBERT 9/19/2016 11:5:48 AM PW:\2021l6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
60		17	
	175		77
35		24	
	115		94

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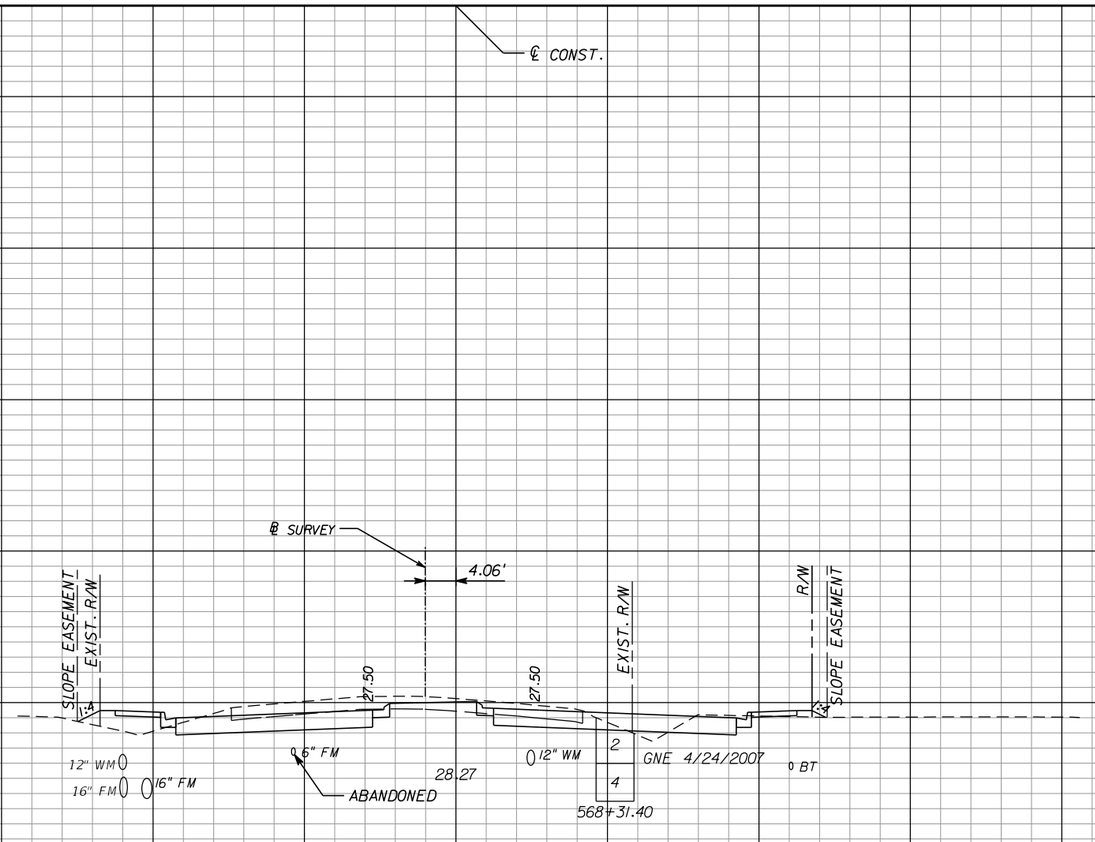
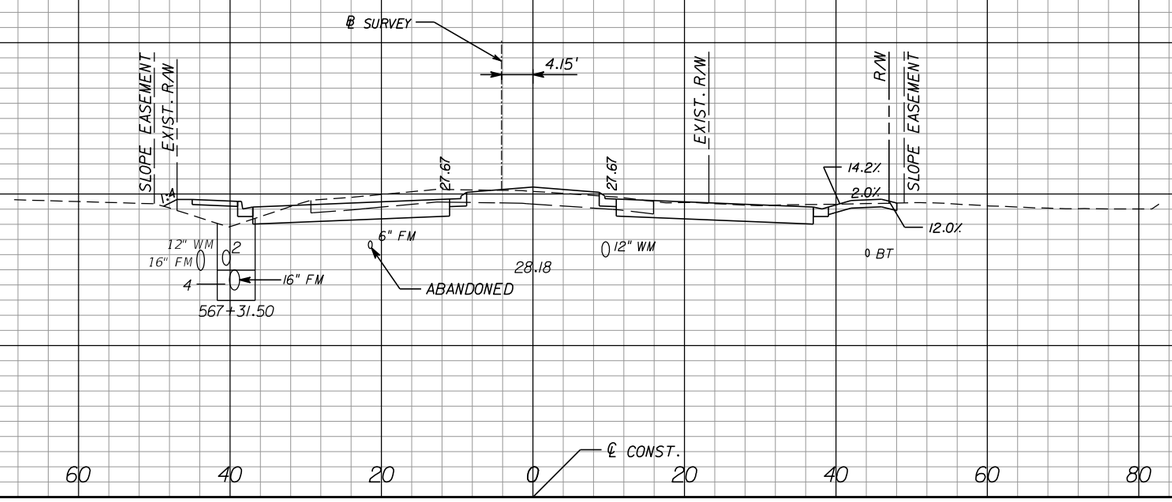
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 171

9/19/2016 11:15:49 AM PW:\2021I6\000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn





Regular Exc.		Embankment	
A	V	A	V
83		13	
	160		26
74		13	
	113		25

1" = 10' VERT.
1" = 20' HORIZ.

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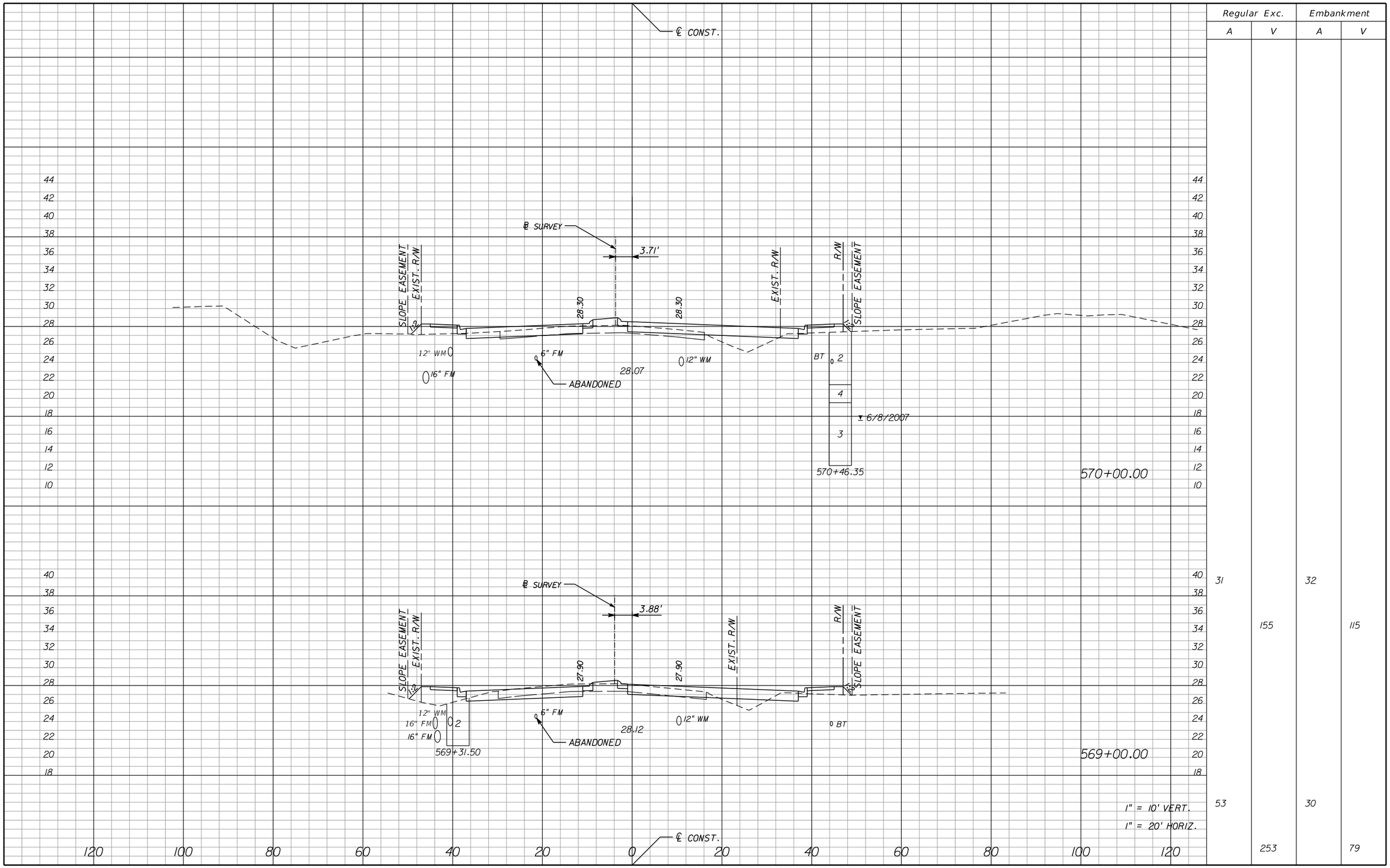
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 172

9/19/2016 11:5:50 AM PW:\2016\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
31		32	
	155		115
53		30	
	253		79

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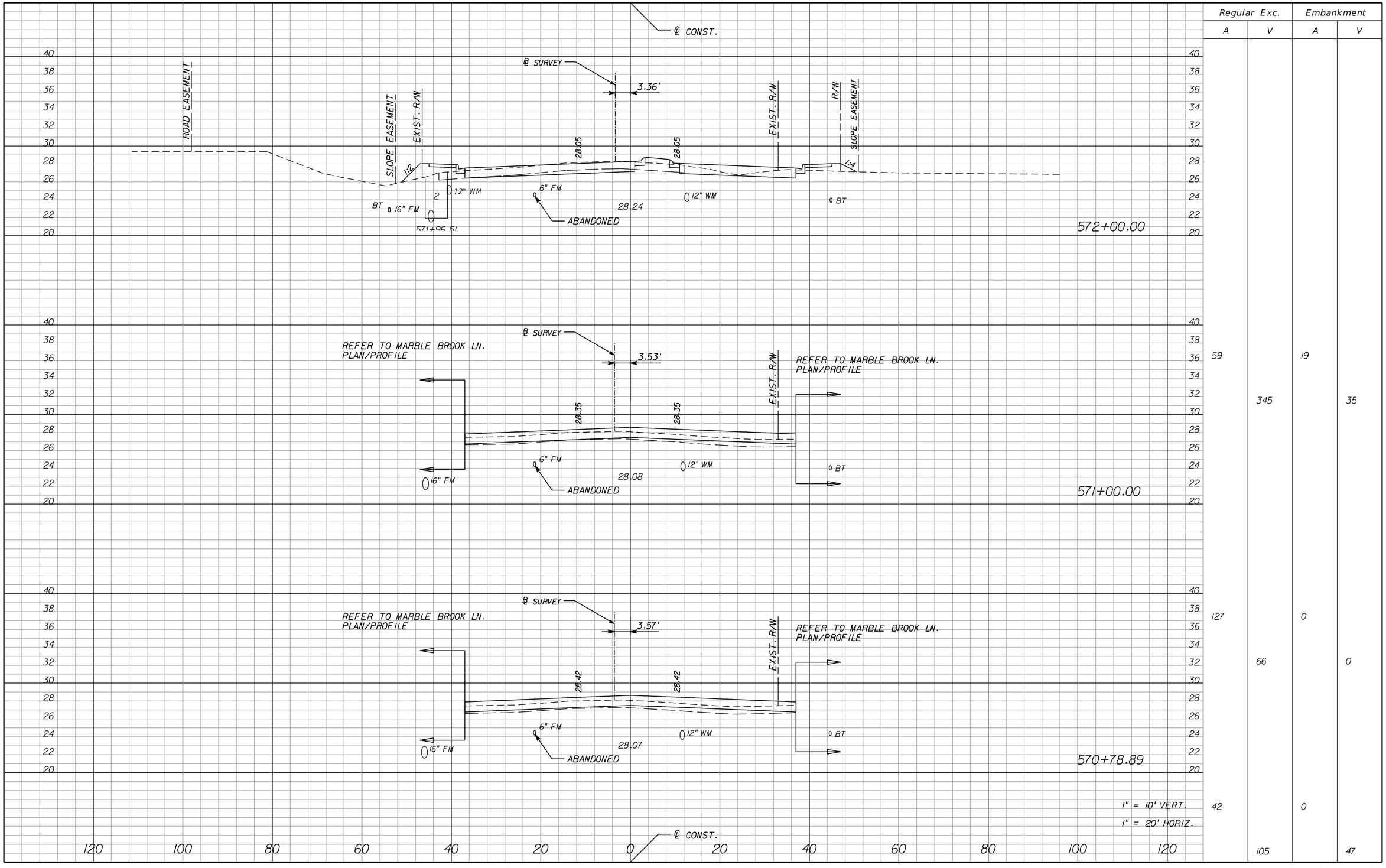
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 173

9/19/2016 11:15:51 AM PW:\2016\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	59	345	19	35
	127	66	0	0
	42	105	0	47

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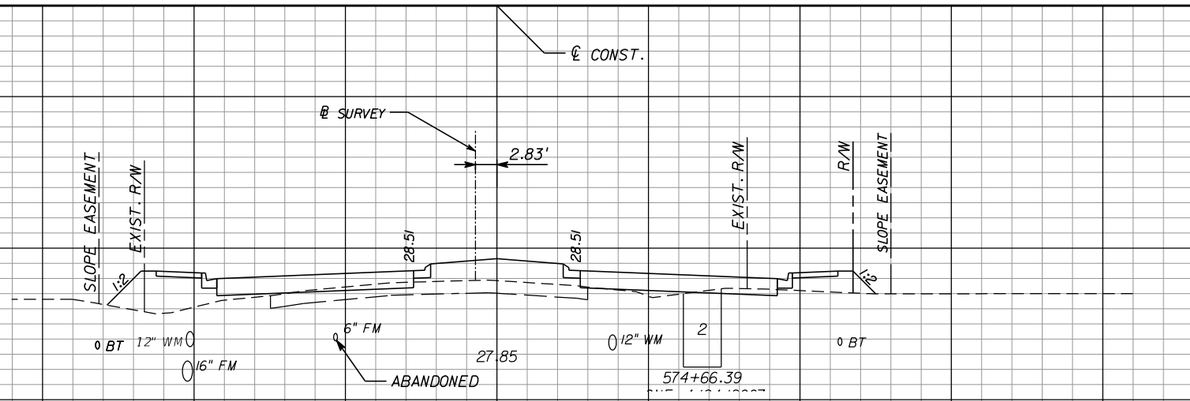
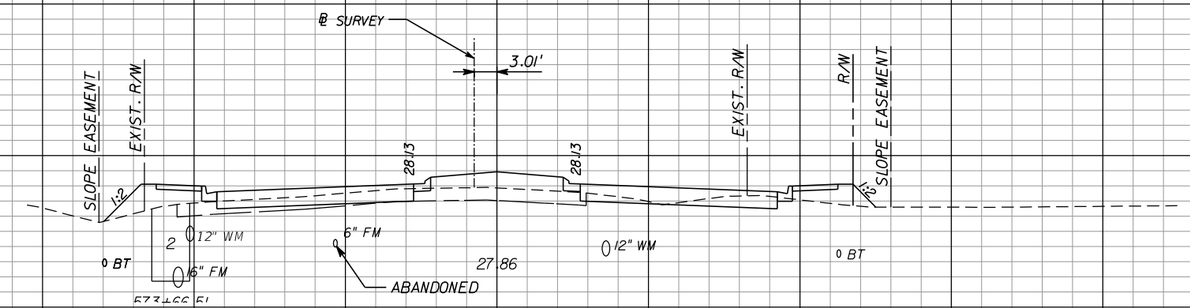
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 174

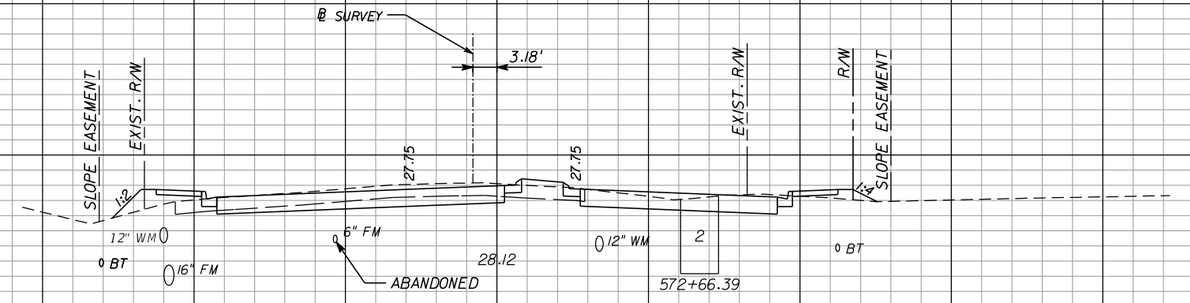
EGILBERT 9/19/2016 11:5:52 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



575+00.00



574+00.00



573+00.00

1" = 10' VERT.
1" = 20' HORIZ.

℄ CONST.

	Regular Exc.		Embankment	
	A	V	A	V
	7		67	
		68		197
	29		40	
		202		97
	80		13	
		257		58

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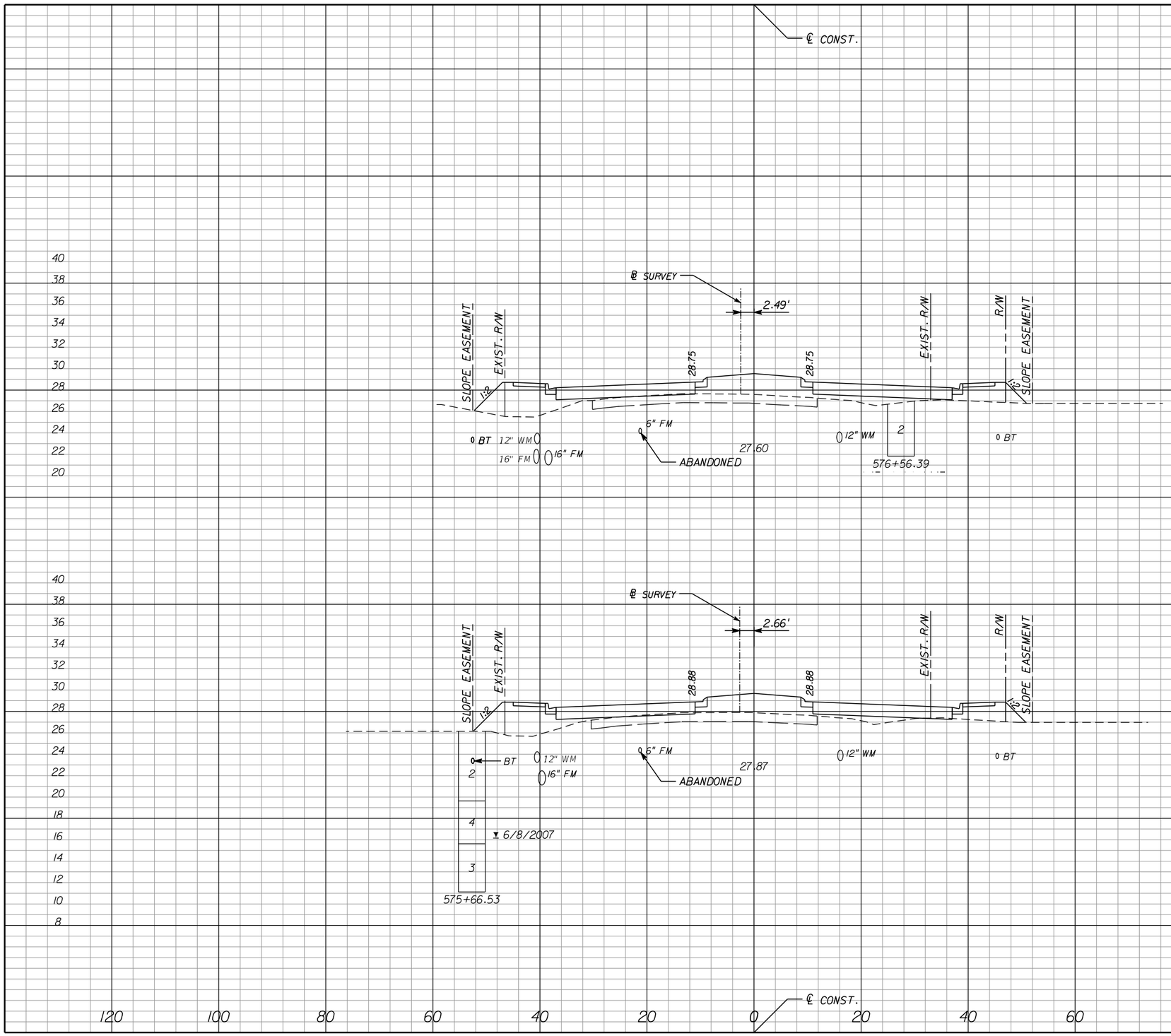
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 175

EGILBERT 9/19/2016 11:5:53 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
1		101	
	4		359
2		92	
	17		295

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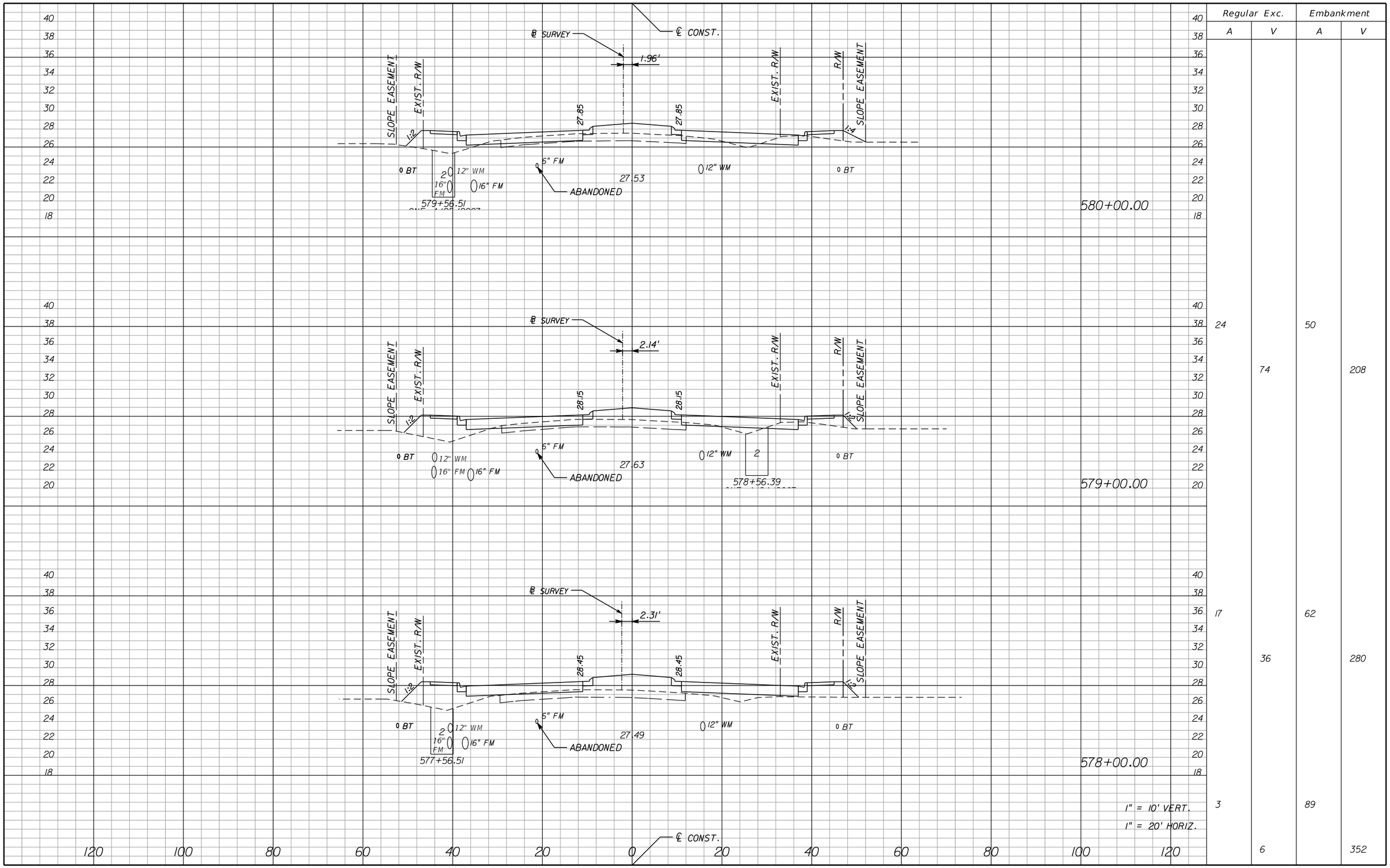
EGILBERT

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 176

9/19/2016 11:15:54 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
24	74	50	208
17	36	62	280
3	6	89	352

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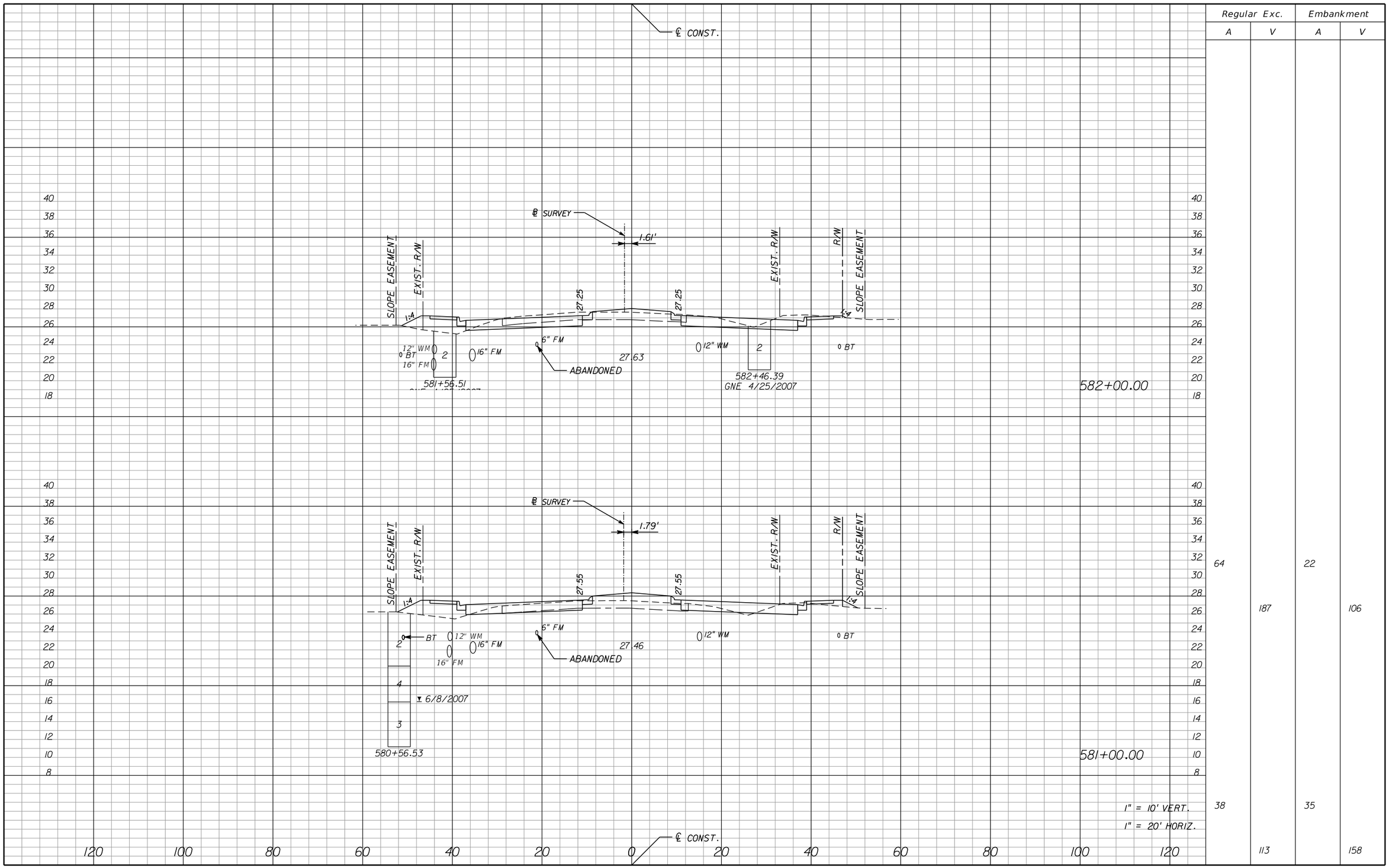
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 177

9/19/2016 11:5:55 AM PW:\2021I6\000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
64		22	
	187		106
38		35	
	113		158

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P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

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FLORIDA

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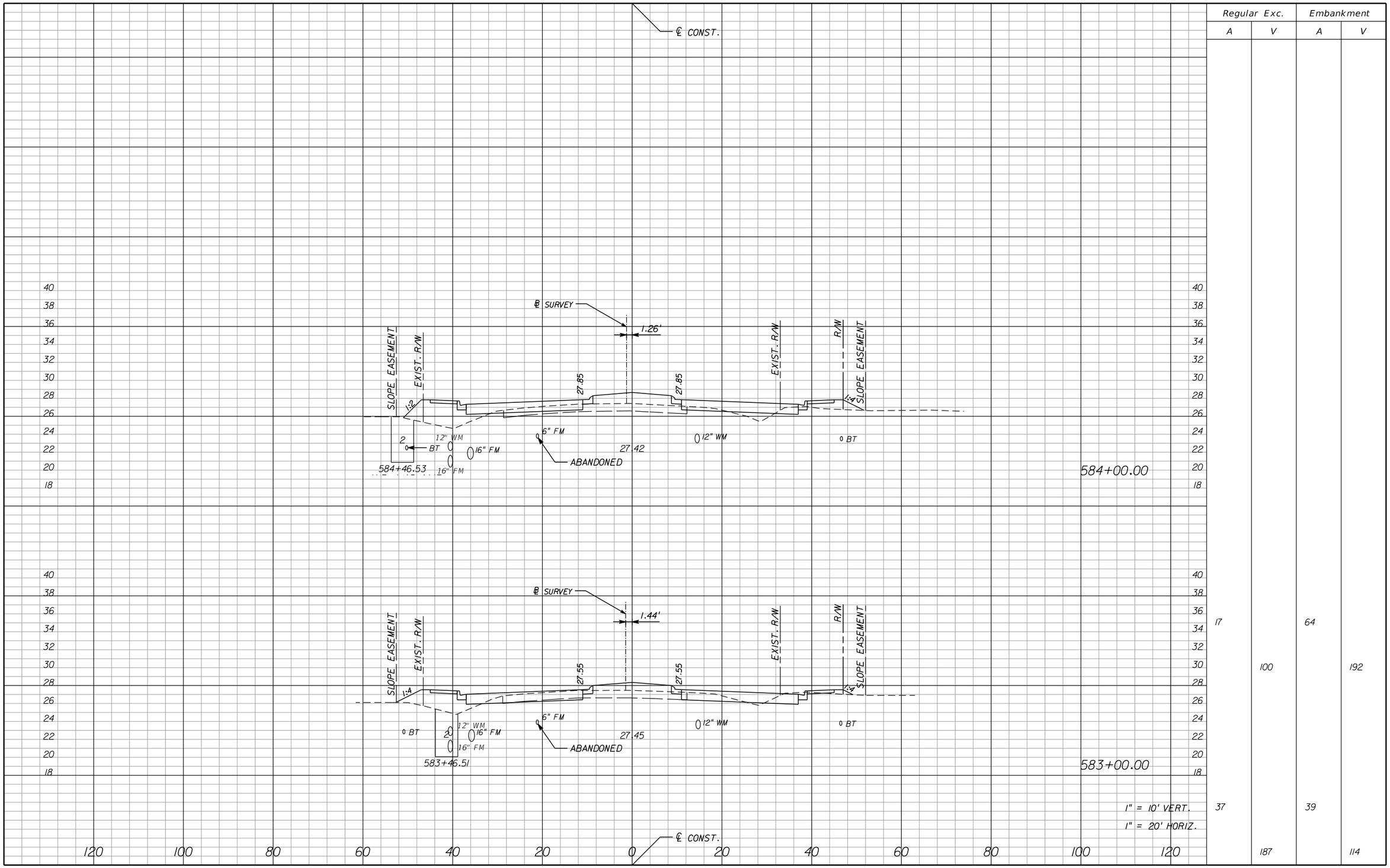
EGILBERT

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 178

9/19/2016 11:15:56 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
17		64	
	100		192
37		39	
	187		114

1" = 10' VERT.
1" = 20' HORIZ.

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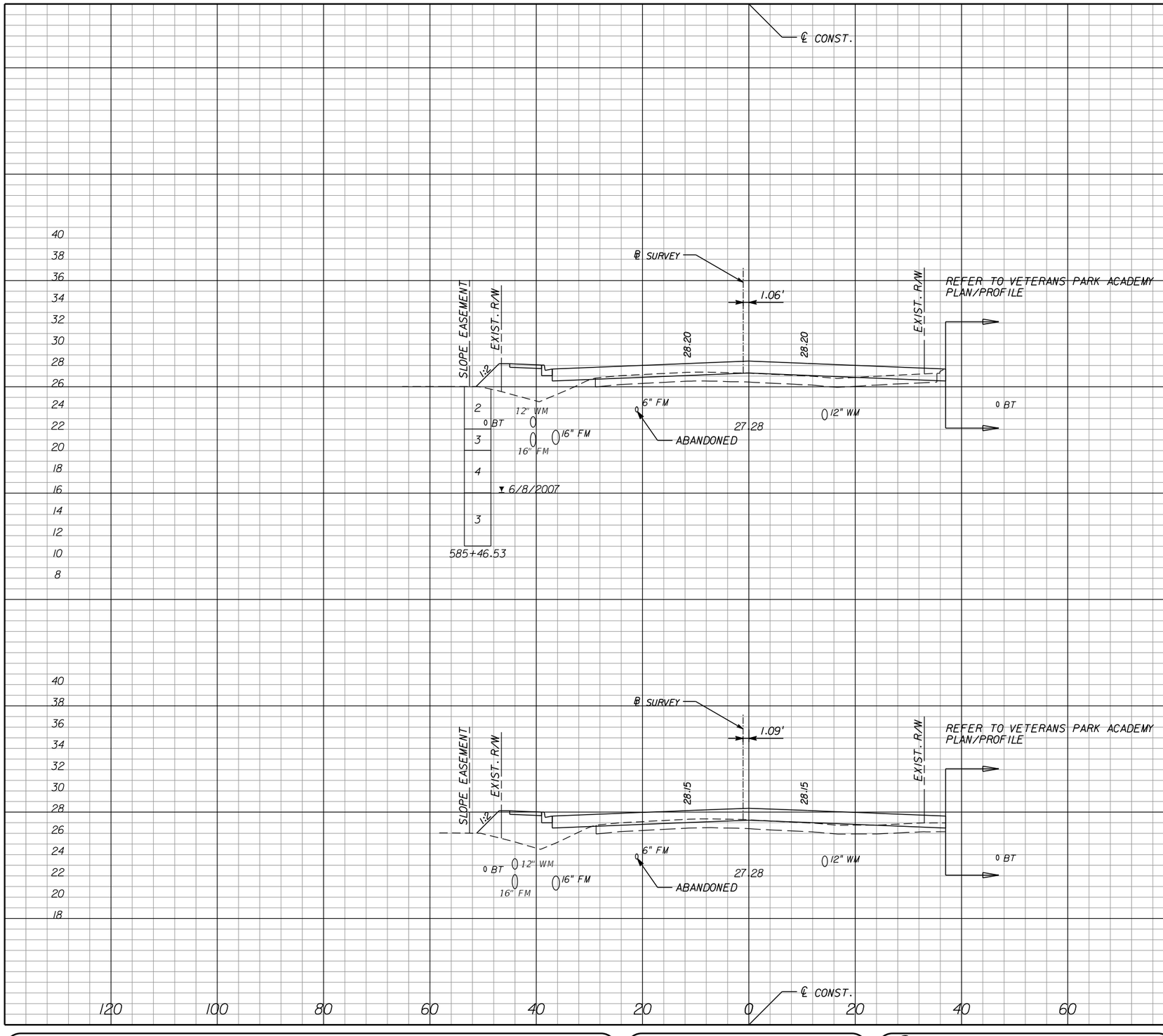
EGILBERT

9/19/2016 11:5:57 AM PW:\2021l6\000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 179



Regular Exc.		Embankment	
A	V	A	V
13		39	
	6		21
10		39	
	50		191

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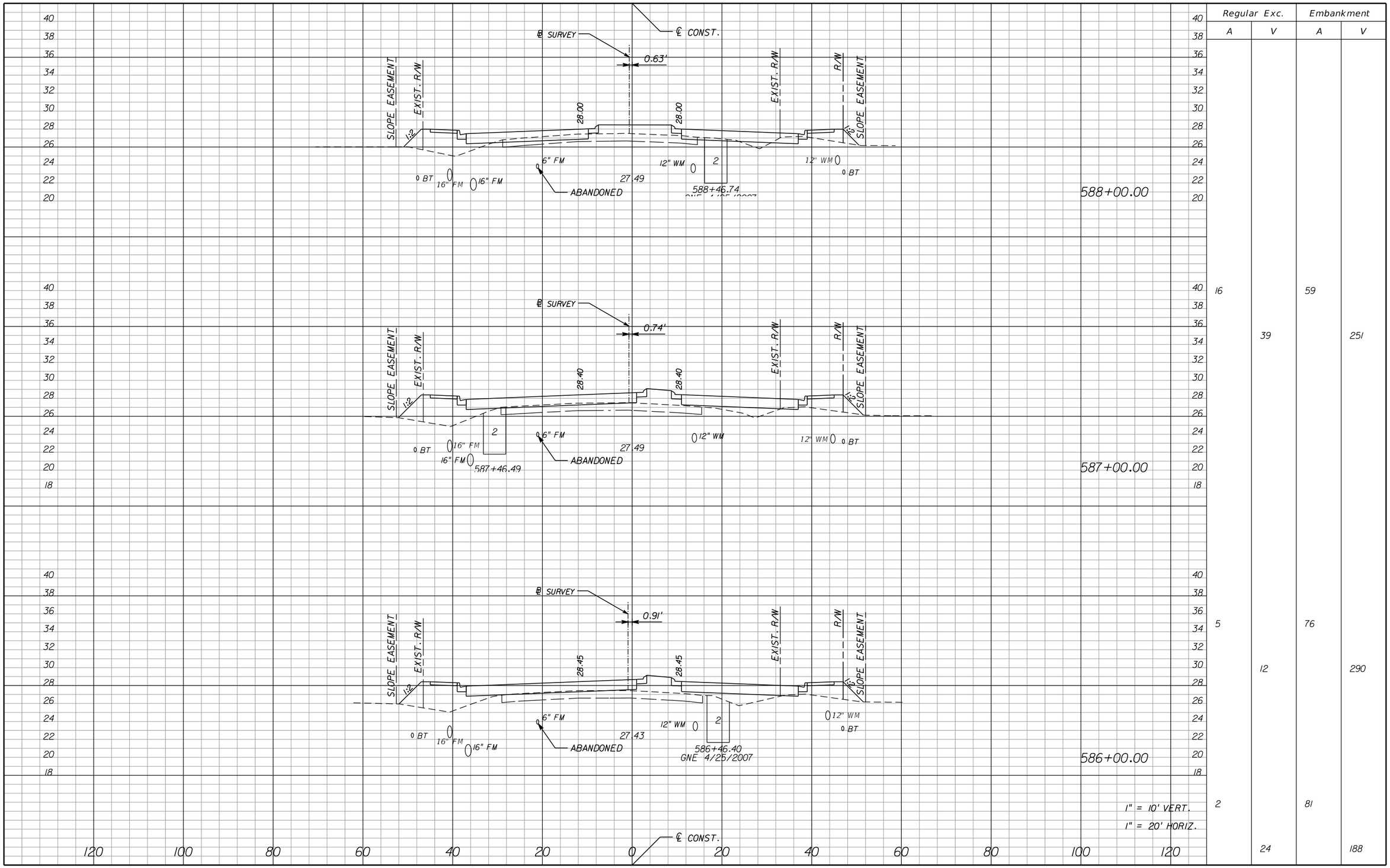
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 180

EGILBERT 9/19/2016 11:5:58 AM PW:\2021l6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
16	39	59	251
5	12	76	290
2	24	81	188

1" = 10' VERT.
1" = 20' HORIZ.

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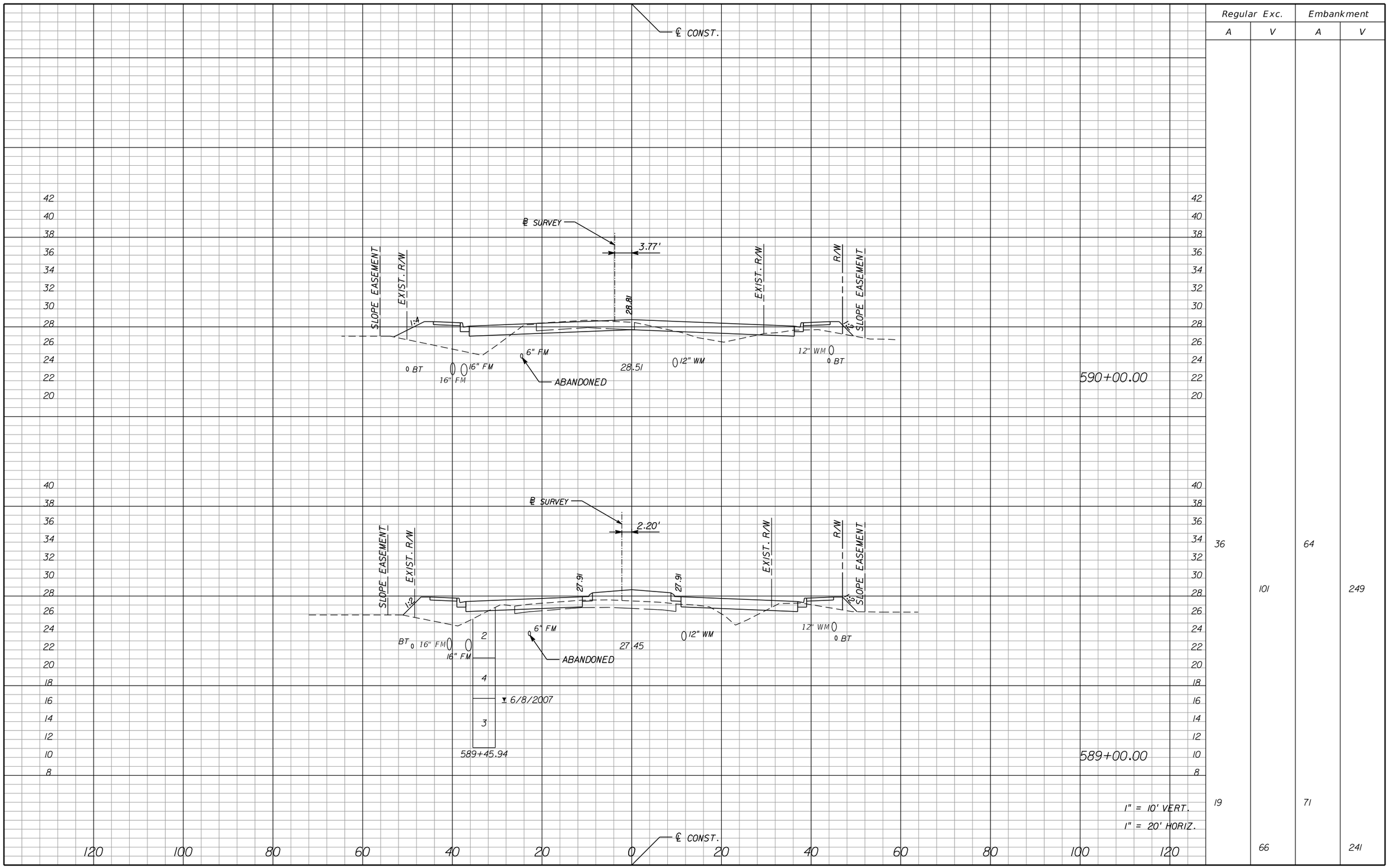
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 181

9/19/2016 11:5:59 AM PW:\2021l6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
36		64	
	101		249
19		71	
	66		241

1" = 10' VERT.
1" = 20' HORIZ.

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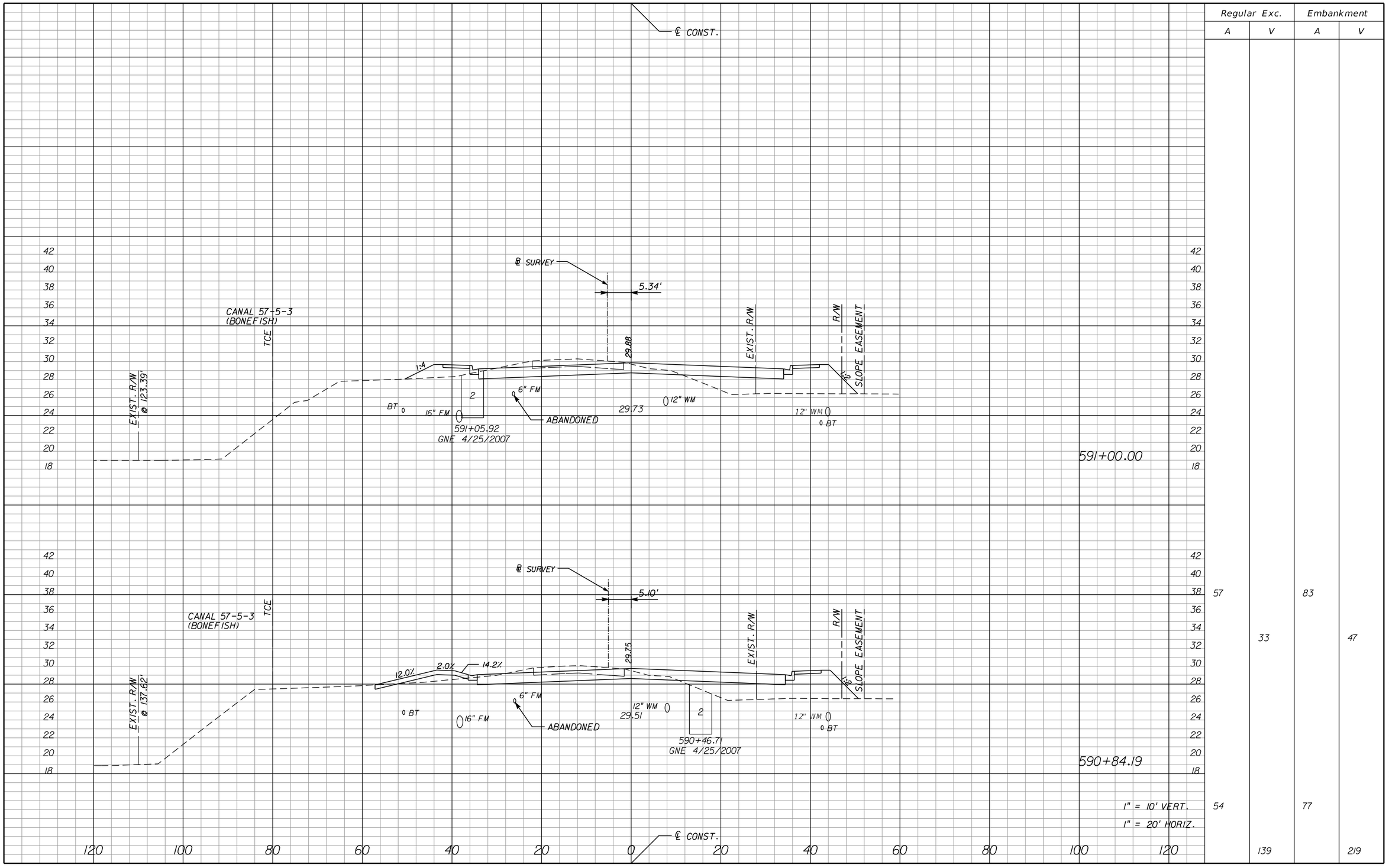
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 182

9/19/2016 11:16:00 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
57		83	
	33		47
54		77	
	139		219

1" = 10' VERT.
1" = 20' HORIZ.

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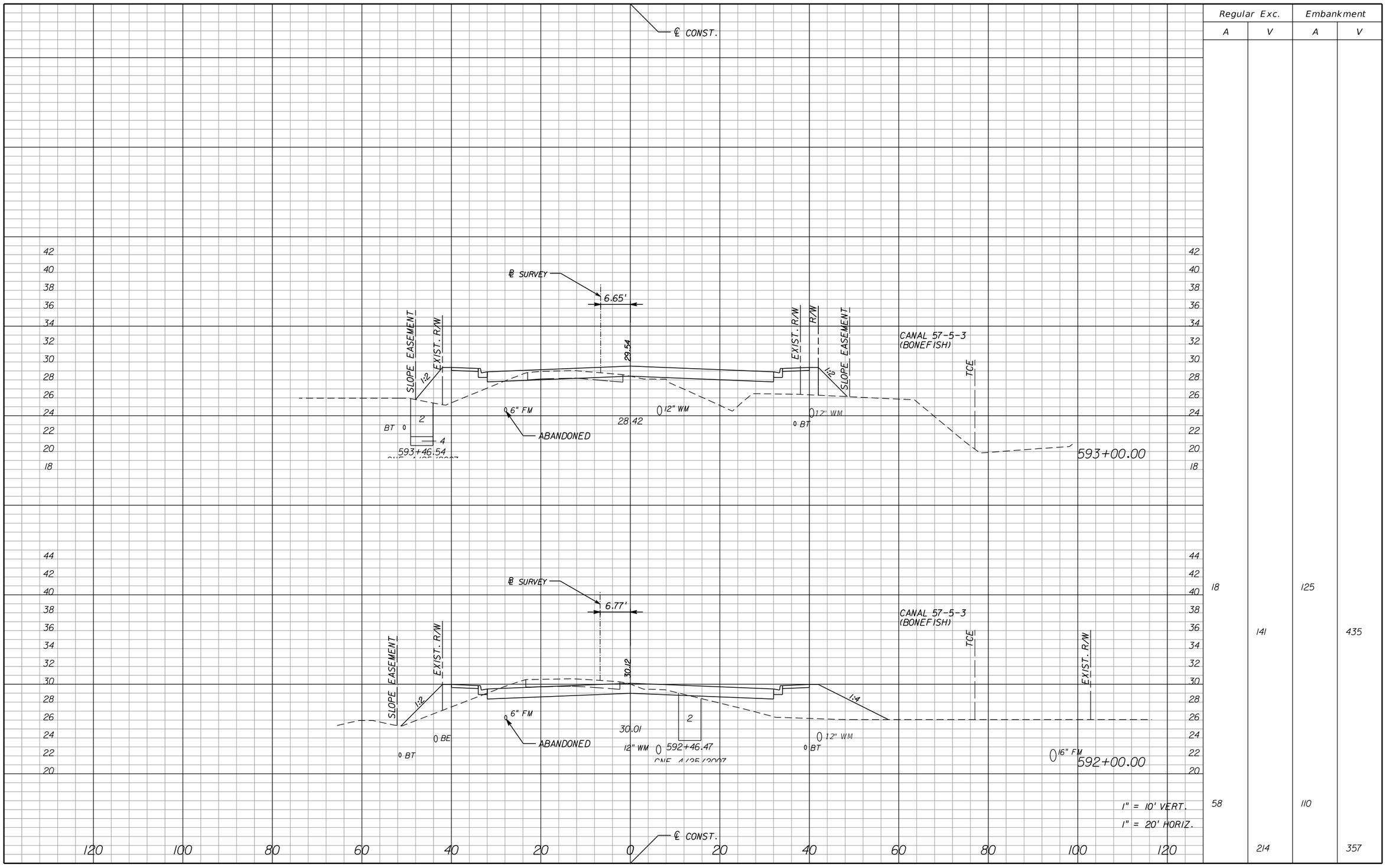
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 183

EGILBERT 9/19/2016 11:16:01 AM PW:\2021\6\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
18		125	
	141		435
58		110	
	214		357

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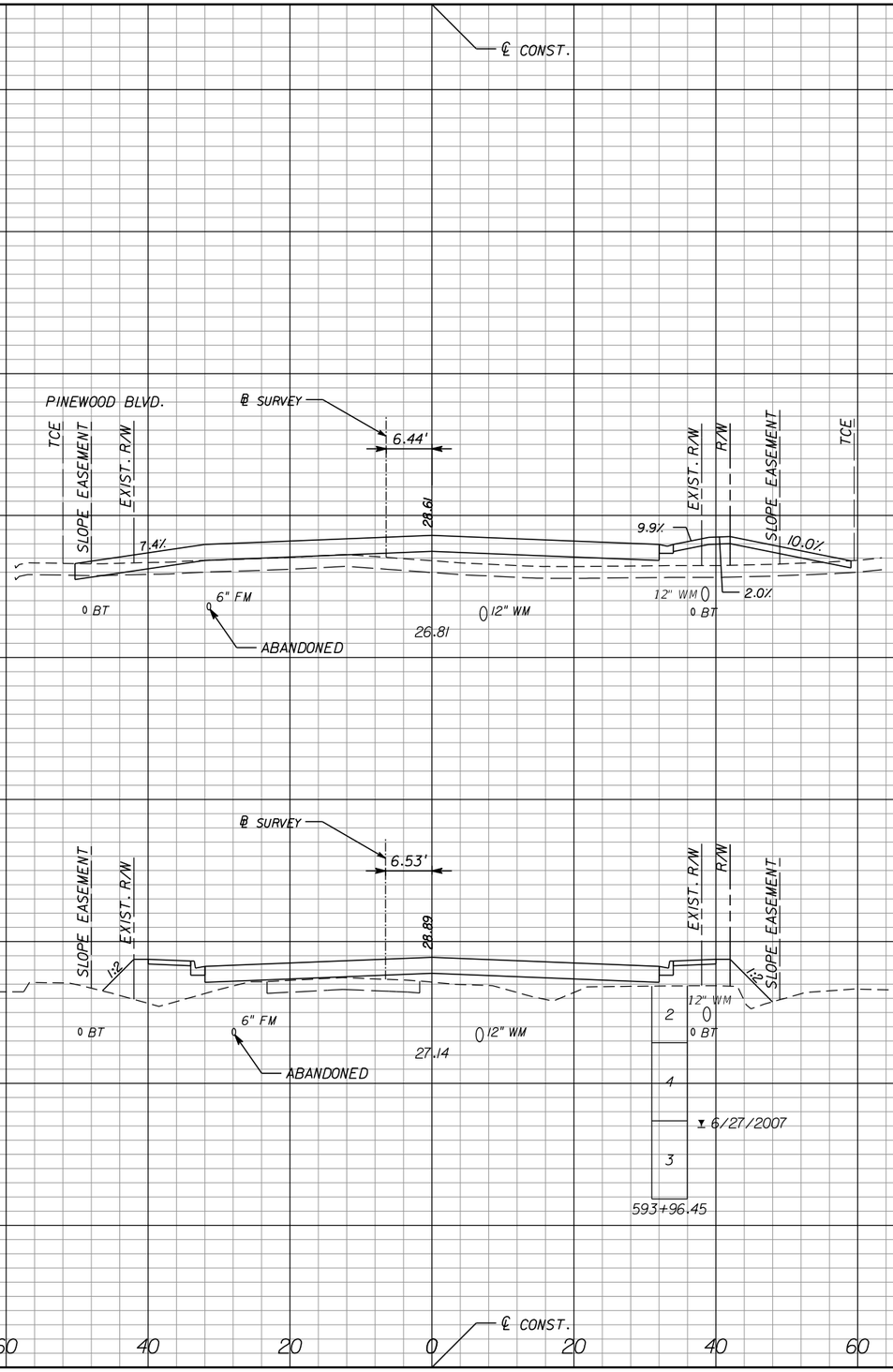
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 184

EGILBERT 9/19/2016 11:16:02 AM PW:\2021\6\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
	10		48
	14		173
	2		
	4		
	3		
	0		86
	33		392

1" = 10' VERT.
1" = 20' HORIZ.

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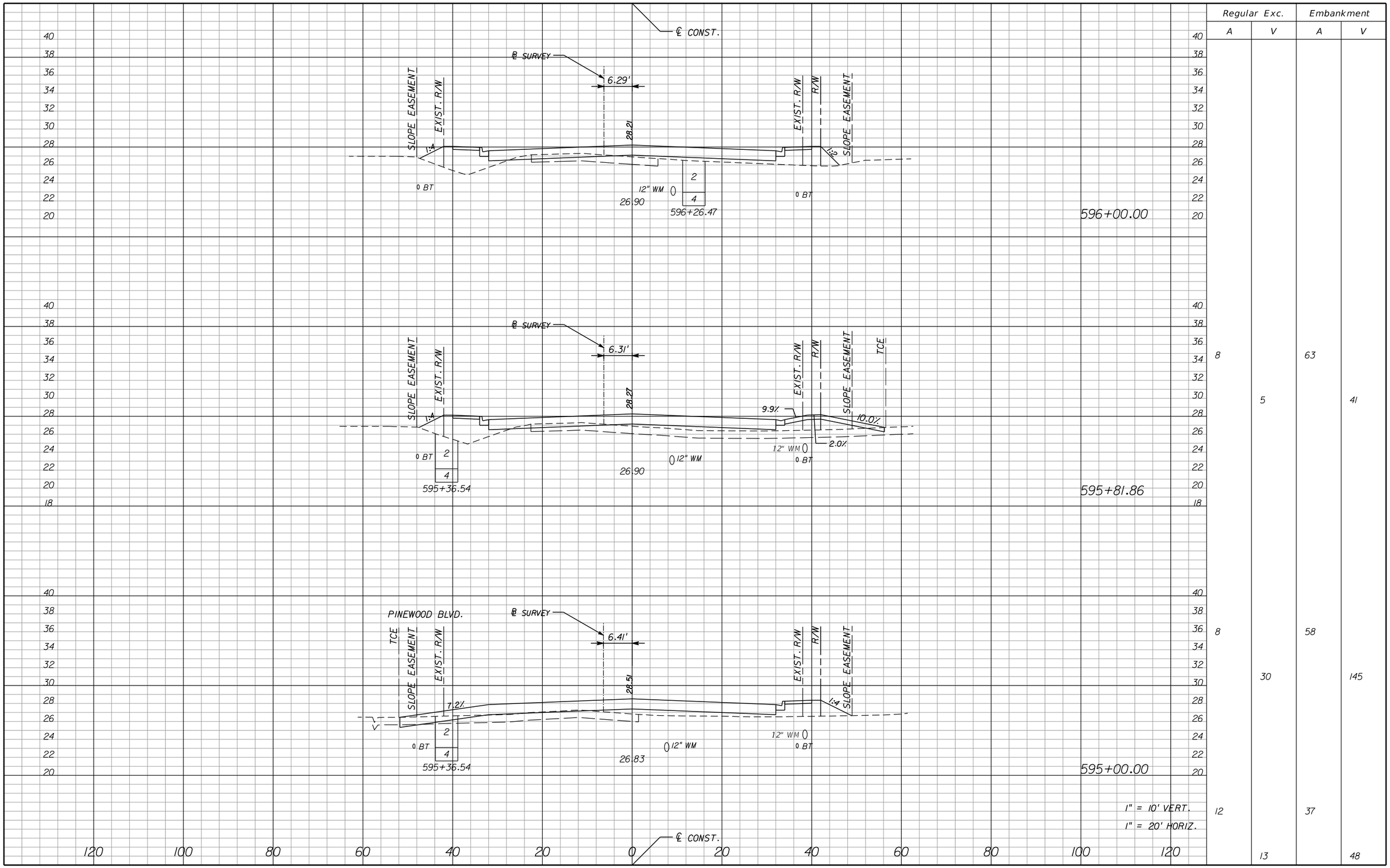
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 185

9/19/2016 11:16:03 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
596+00.00	8	5	63	41
595+81.86				
595+00.00	8	30	58	145
	12	13	37	48

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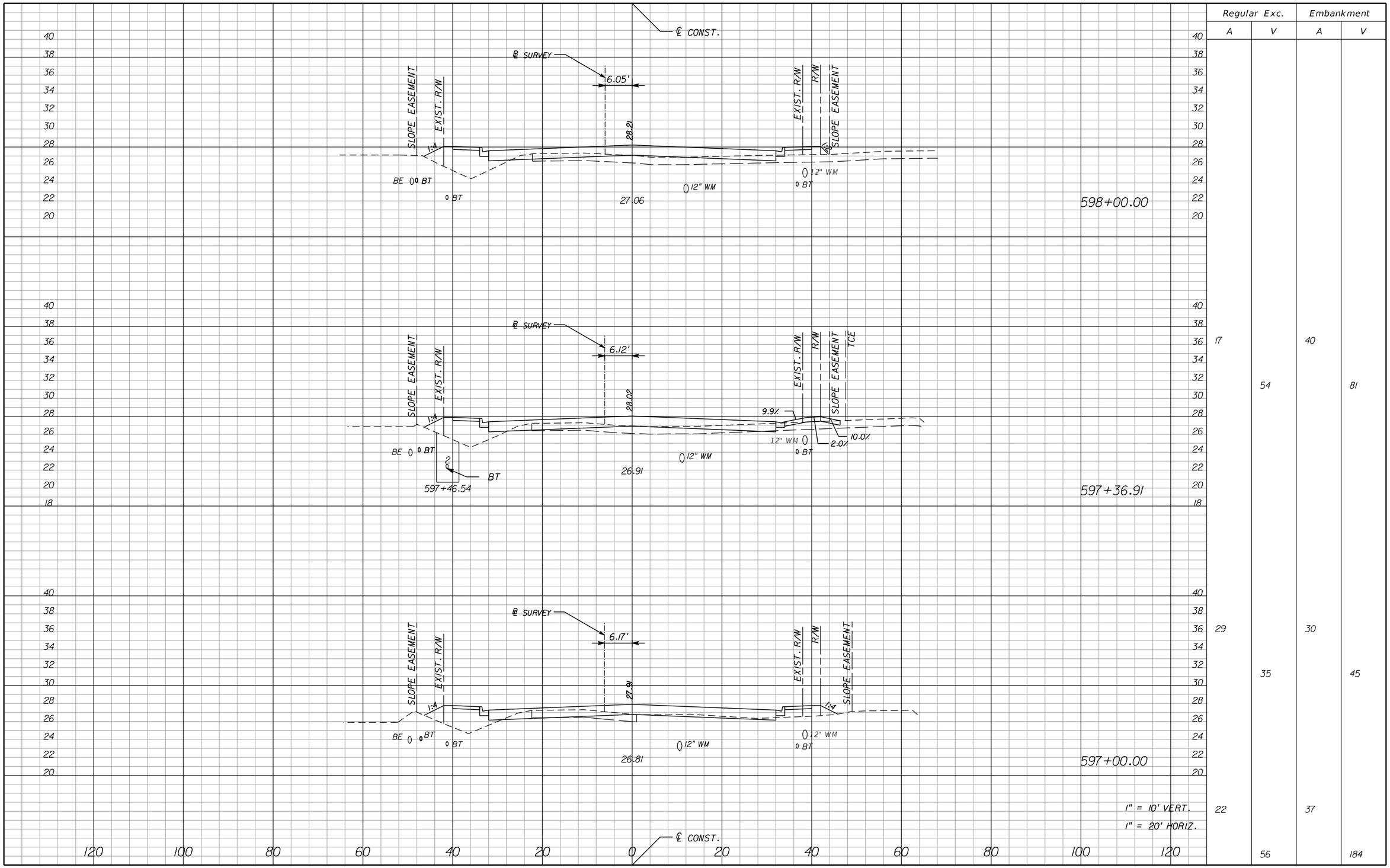
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 186

9/19/2016 11:16:05 AM PW:\2021I6\0000000005305V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	17	54	40	81
	29	35	30	45
	22	56	37	184

1" = 10' VERT.
1" = 20' HORIZ.

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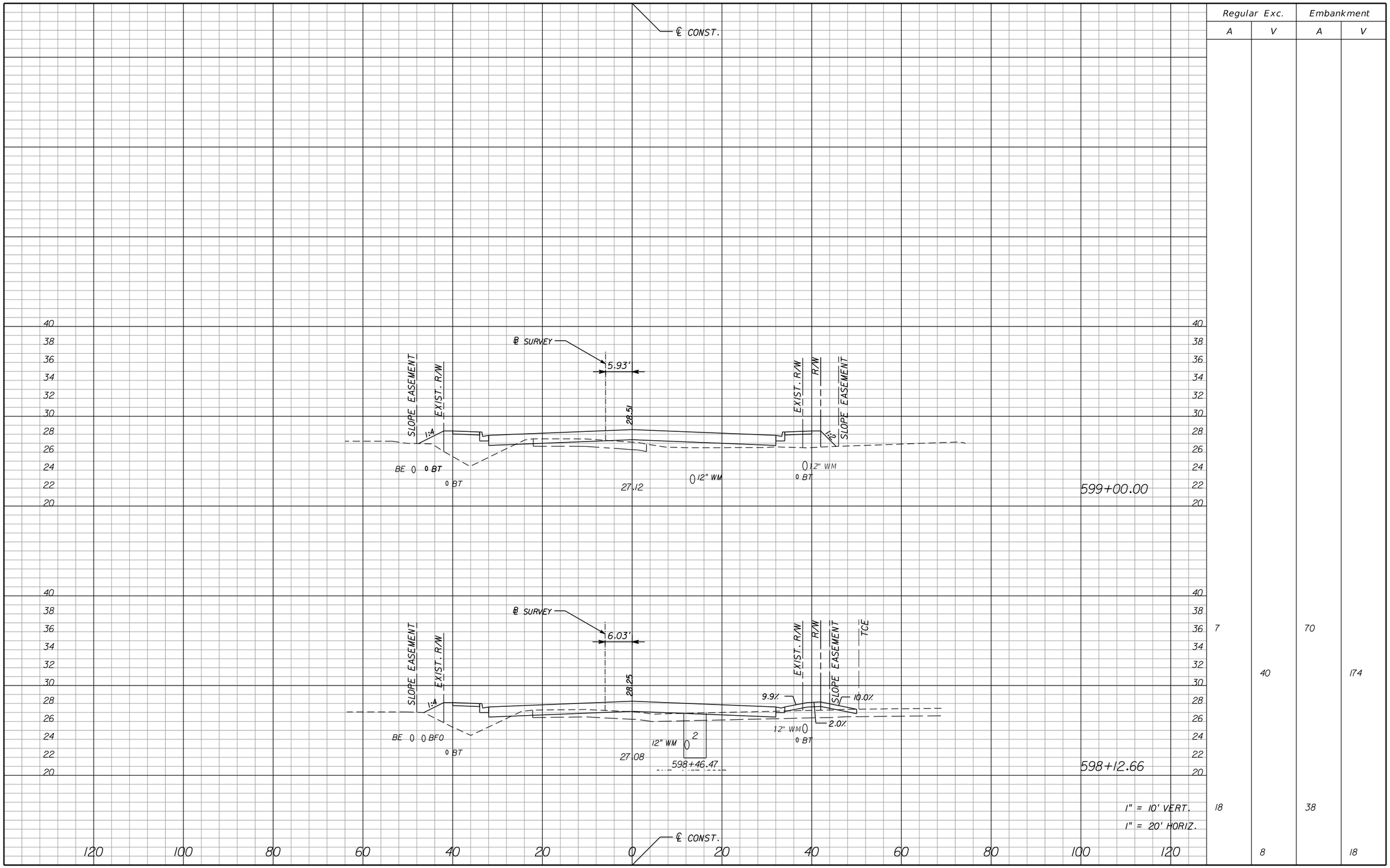
9/19/2016 11:16:06 AM PW:\2016\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 187



Regular Exc.		Embankment	
A	V	A	V
7		70	
	40		174
18		38	
	8		18

1" = 10' VERT.
1" = 20' HORIZ.

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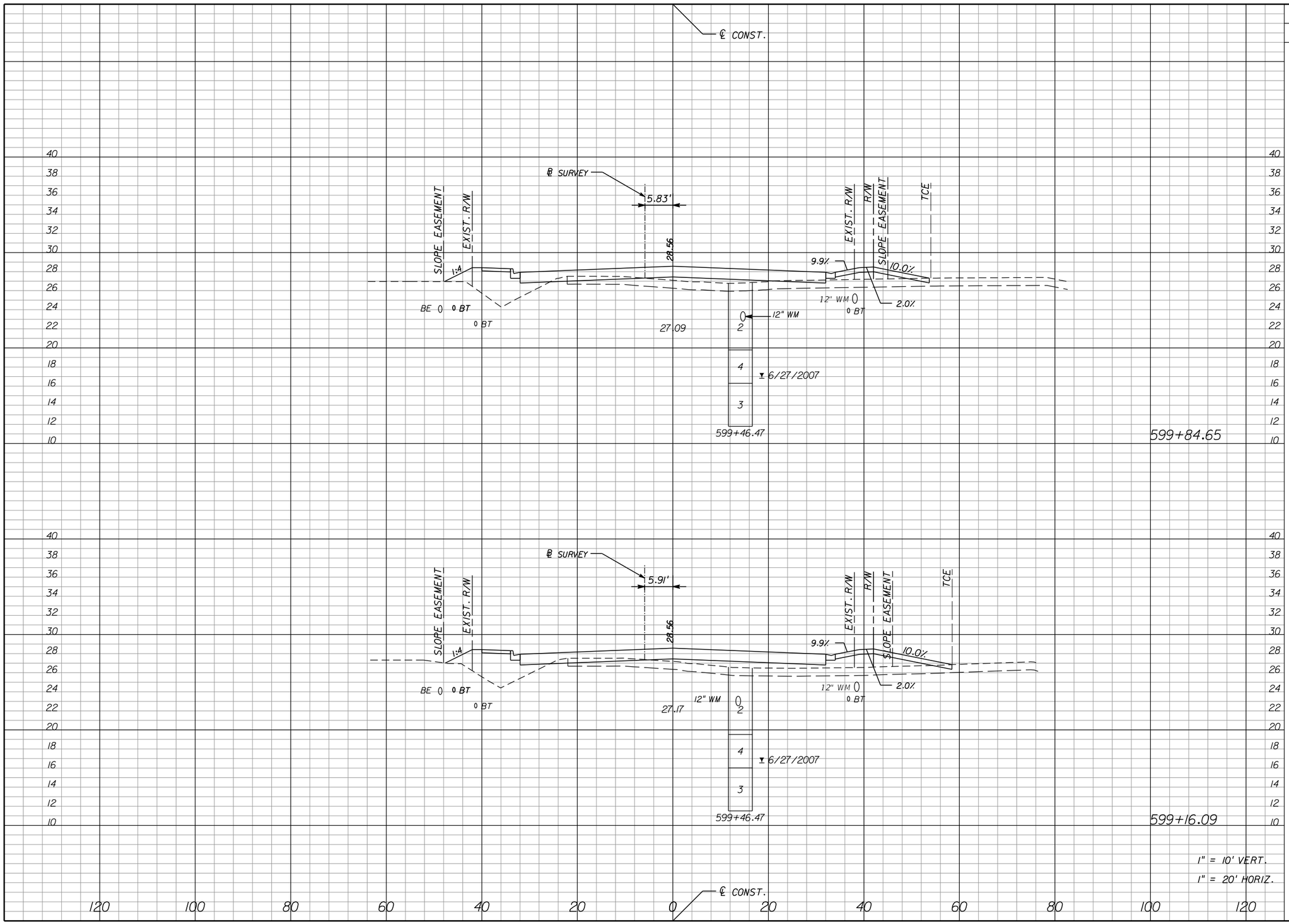
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
188



Regular Exc.		Embankment	
A	V	A	V
9		53	
	22		162
8		74	
	4		43

1" = 10' VERT.
1" = 20' HORIZ.

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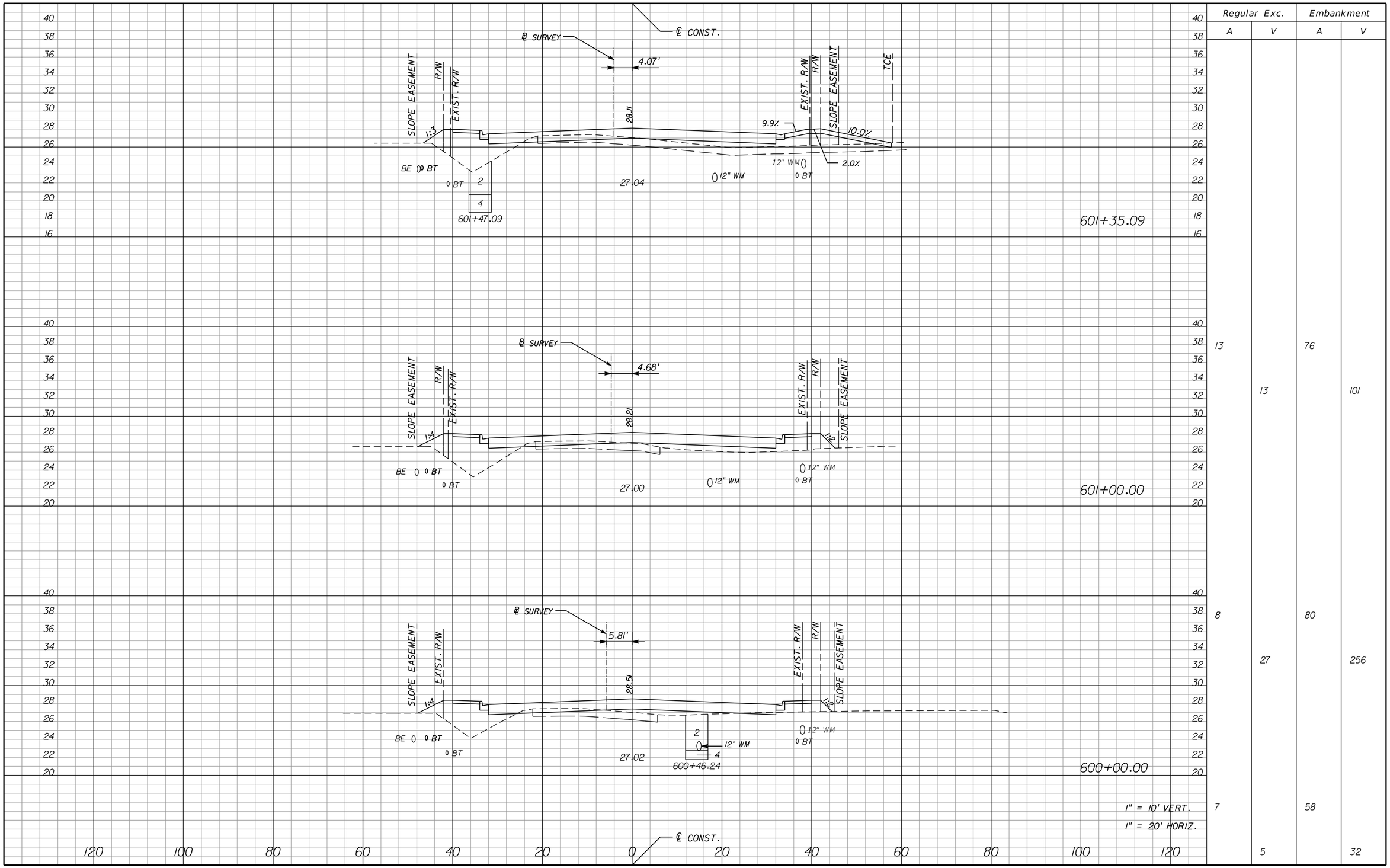
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 189

9/19/2016 11:16:08 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	13		76	
		13		101
	8		80	
		27		256
	7		58	
	5			32

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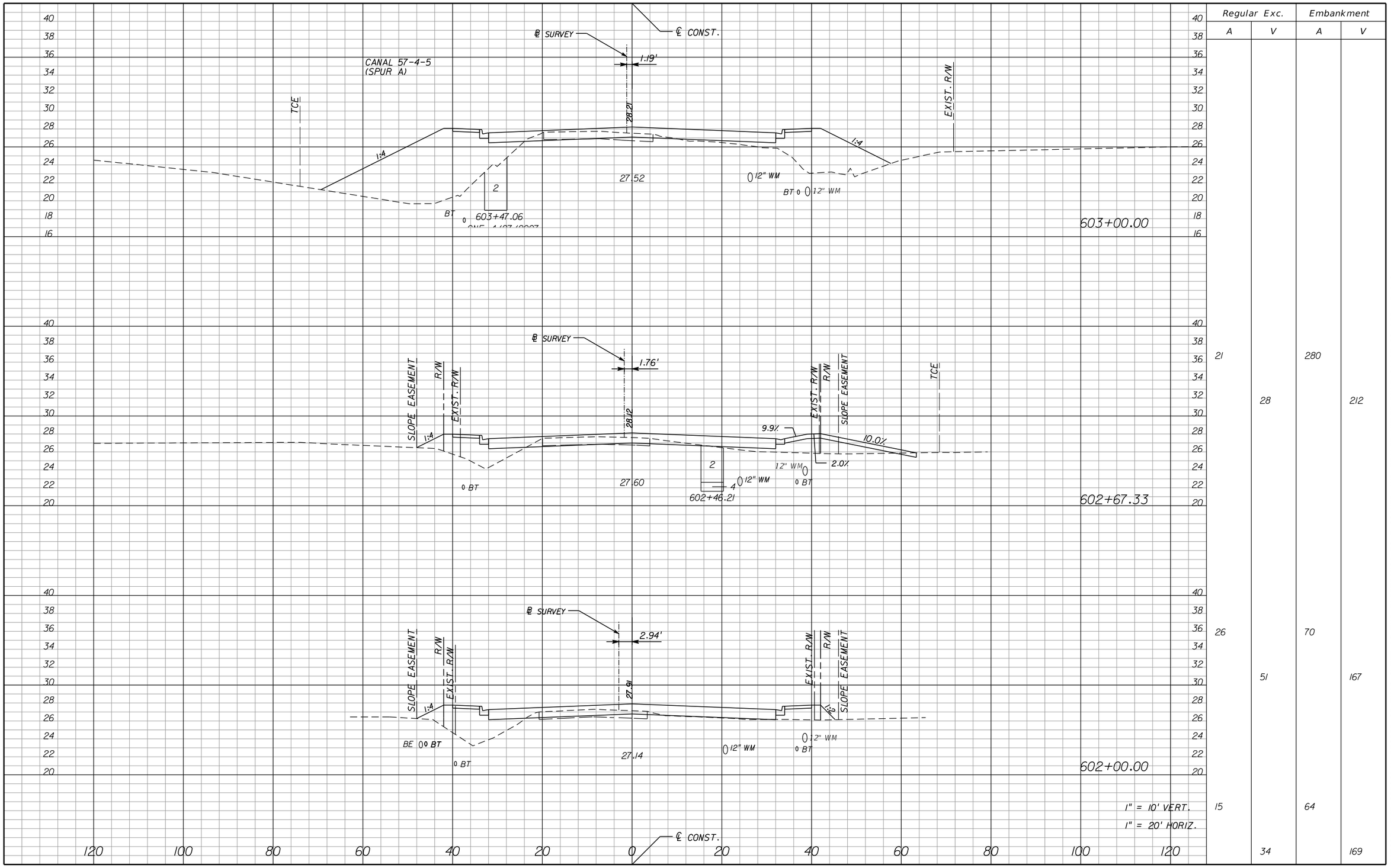
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 190



Regular Exc.		Embankment	
A	V	A	V
21		280	
	28		212
26		70	
	51		167
15		64	
	34		169

1" = 10' VERT.
1" = 20' HORIZ.

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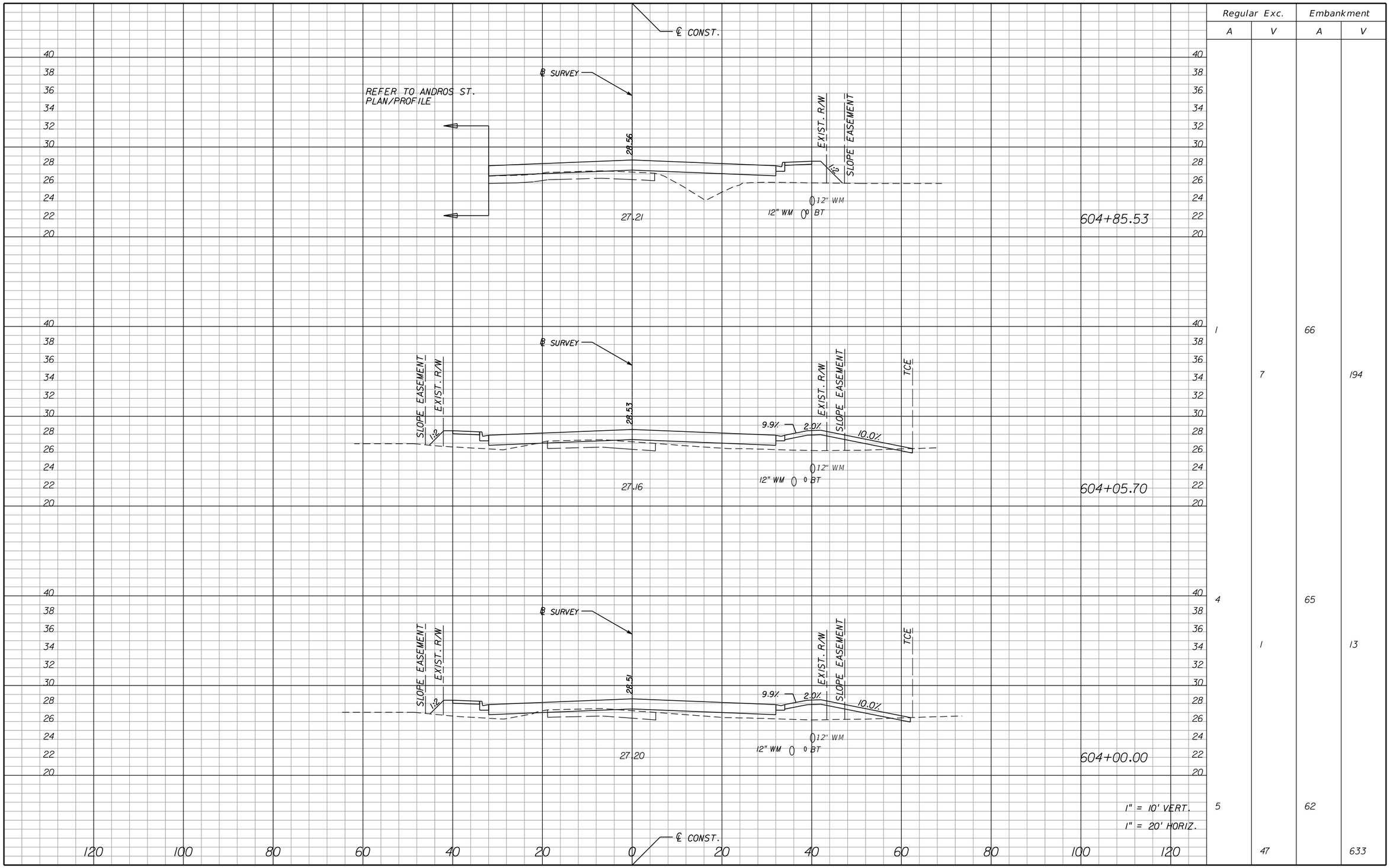
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 191

EGILBERT 9/19/2016 11:16:10 AM PW:\2021I6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd0I.dgn



	Regular Exc.		Embankment	
	A	V	A	V
1	1	7	66	194
2	4	1	65	13
3	5	47	62	633

1" = 10' VERT.
1" = 20' HORIZ.

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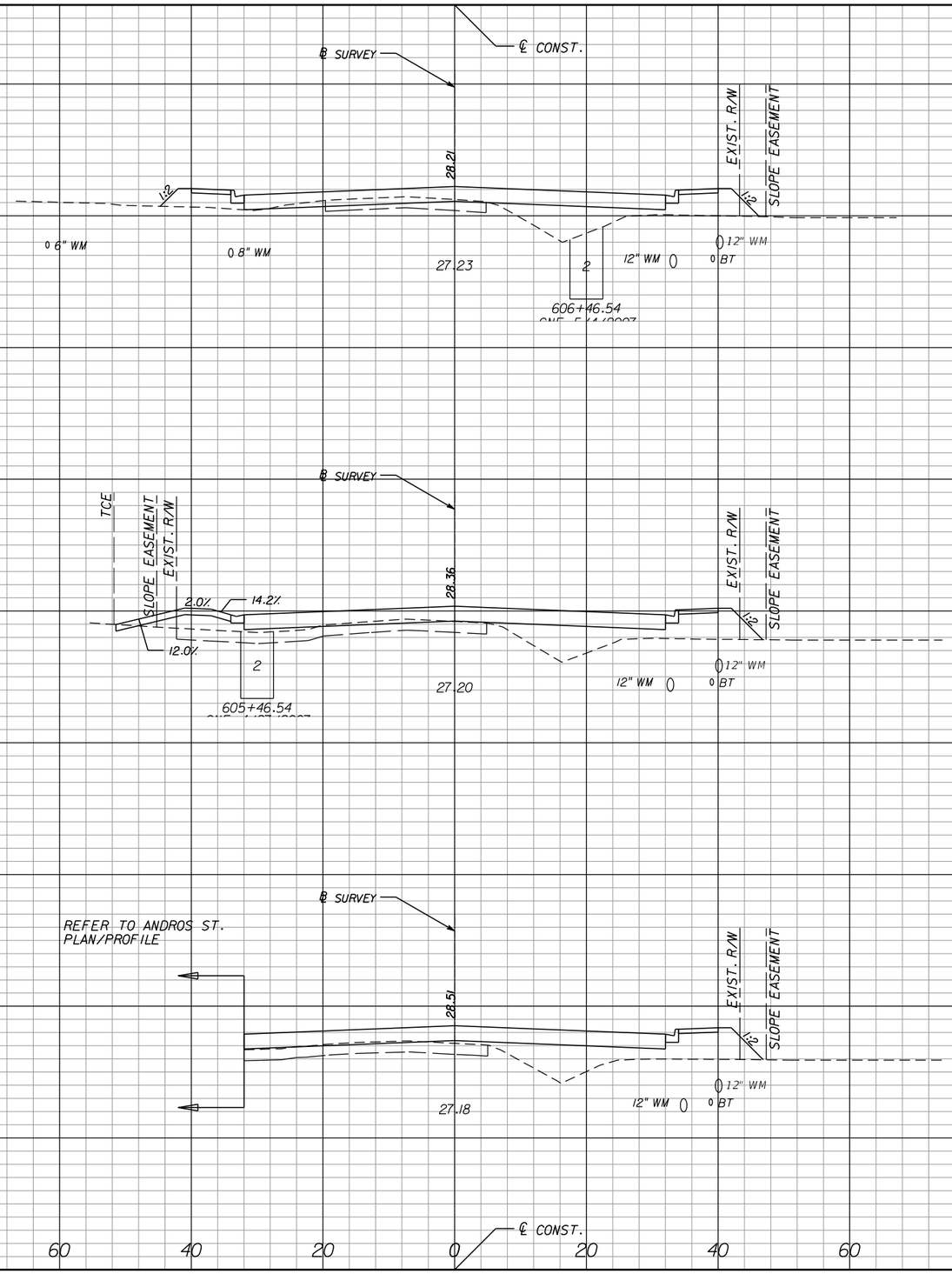
EGILBERT 9/19/2016 11:16:11 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd0I.dgn

CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 192

CANAL 57-5-1
(LIVE OAK)



	Regular Exc.		Embankment	
	A	V	A	V
	11		66	
		14		124
	4		76	
		6		138
	2		66	
	1			35

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CROSS SECTIONS
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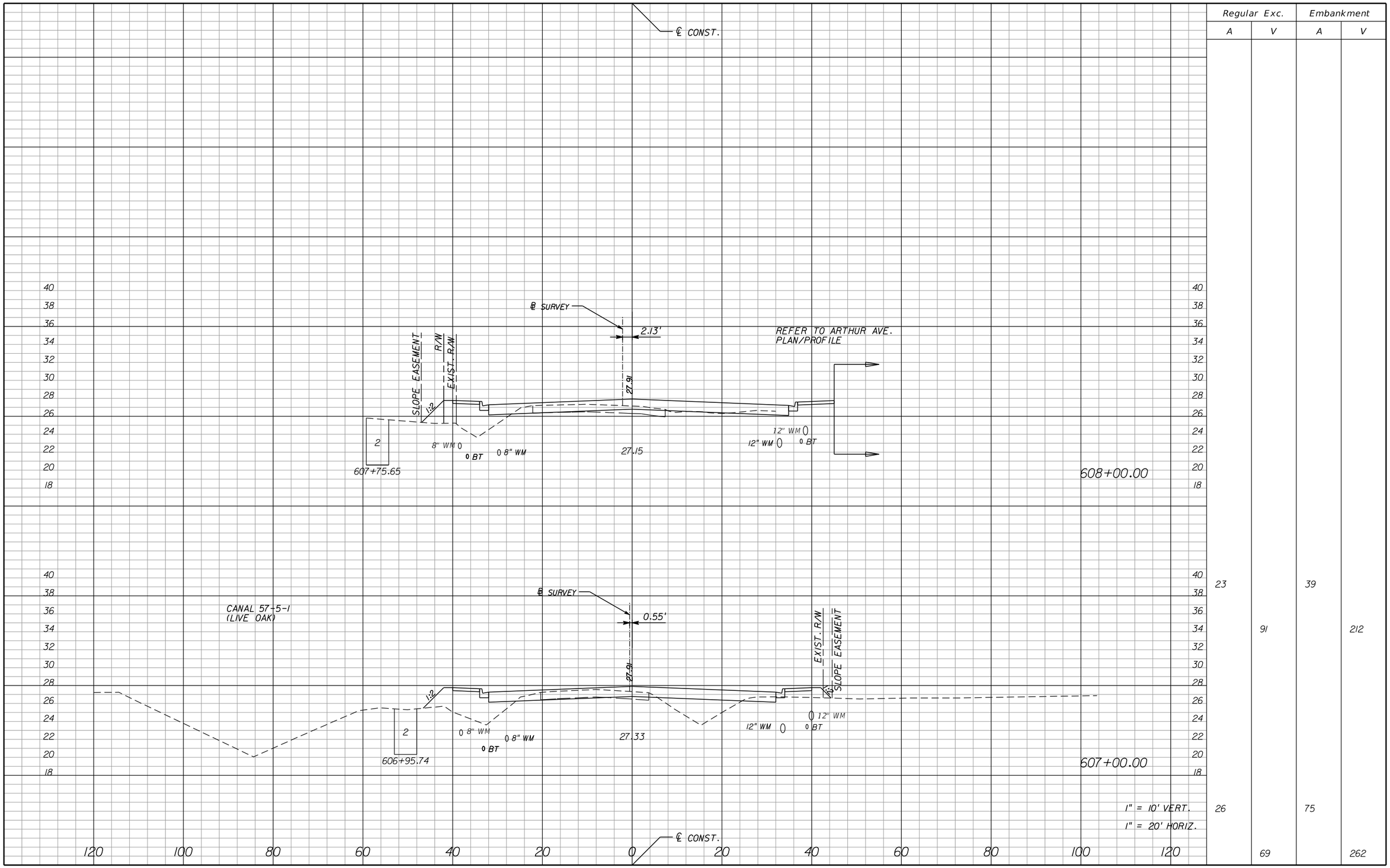
SHEET NO. 193

9/19/2016 11:16:12 AM PW:\2016\0000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
23		39	
	91		212
26		75	
	69		262

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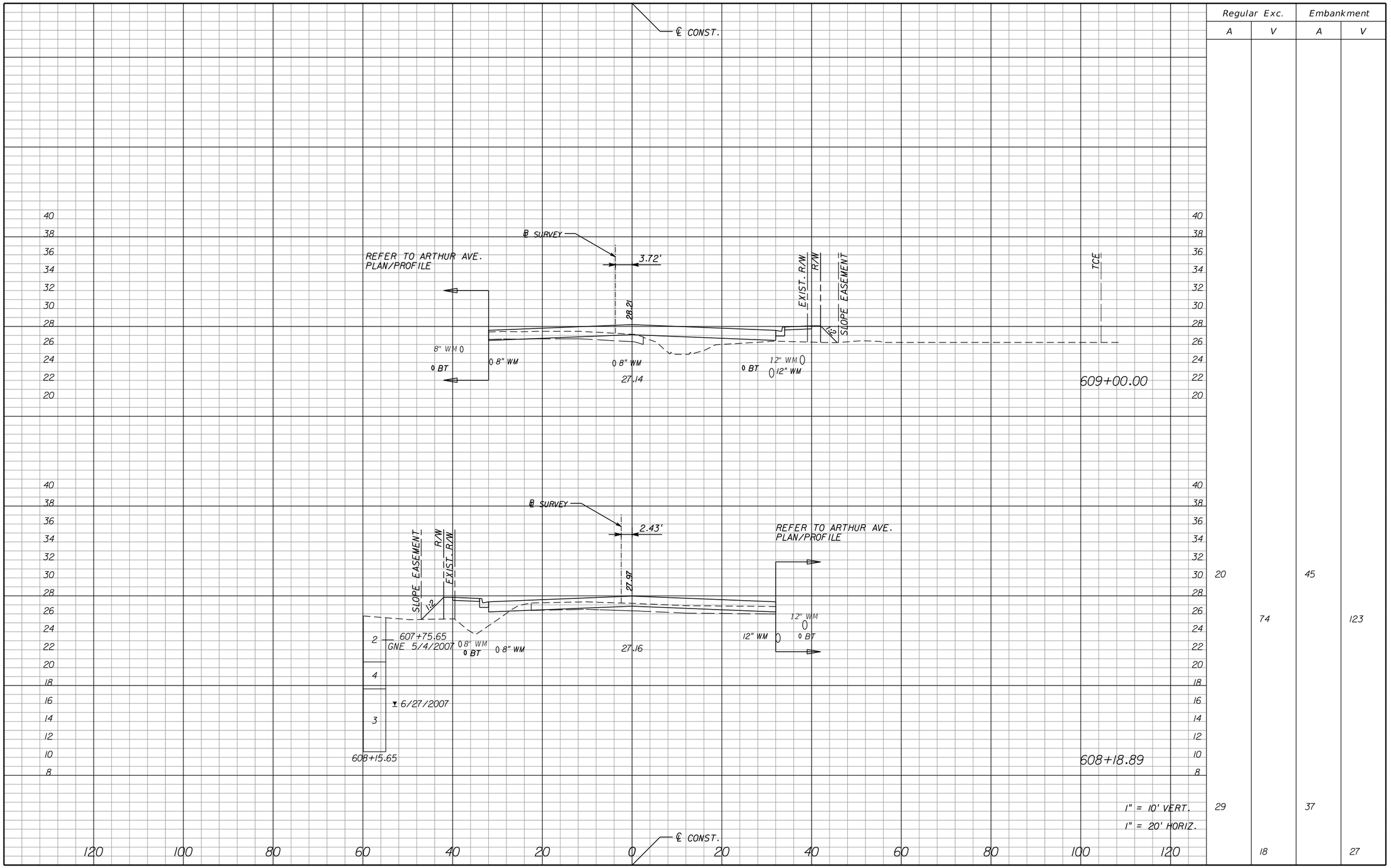
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 194



Regular Exc.		Embankment	
A	V	A	V
20		45	
	74		123
29		37	
	18		27

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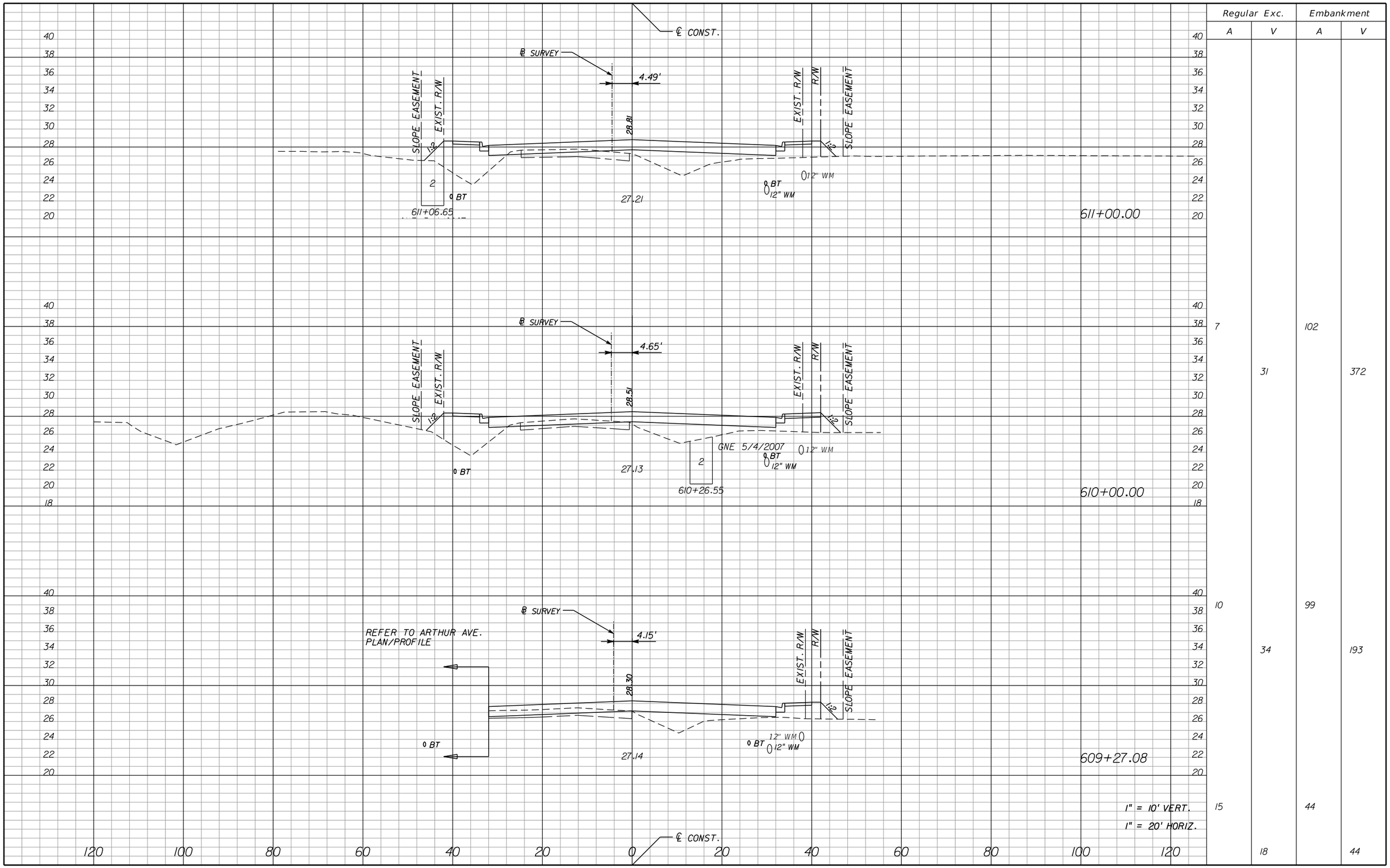
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 195

9/19/2016 11:16:14 AM PW:\2016\0000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	7		102	
		31		372
	10		99	
		34		193
	15		44	
		18		44

1" = 10' VERT.
1" = 20' HORIZ.

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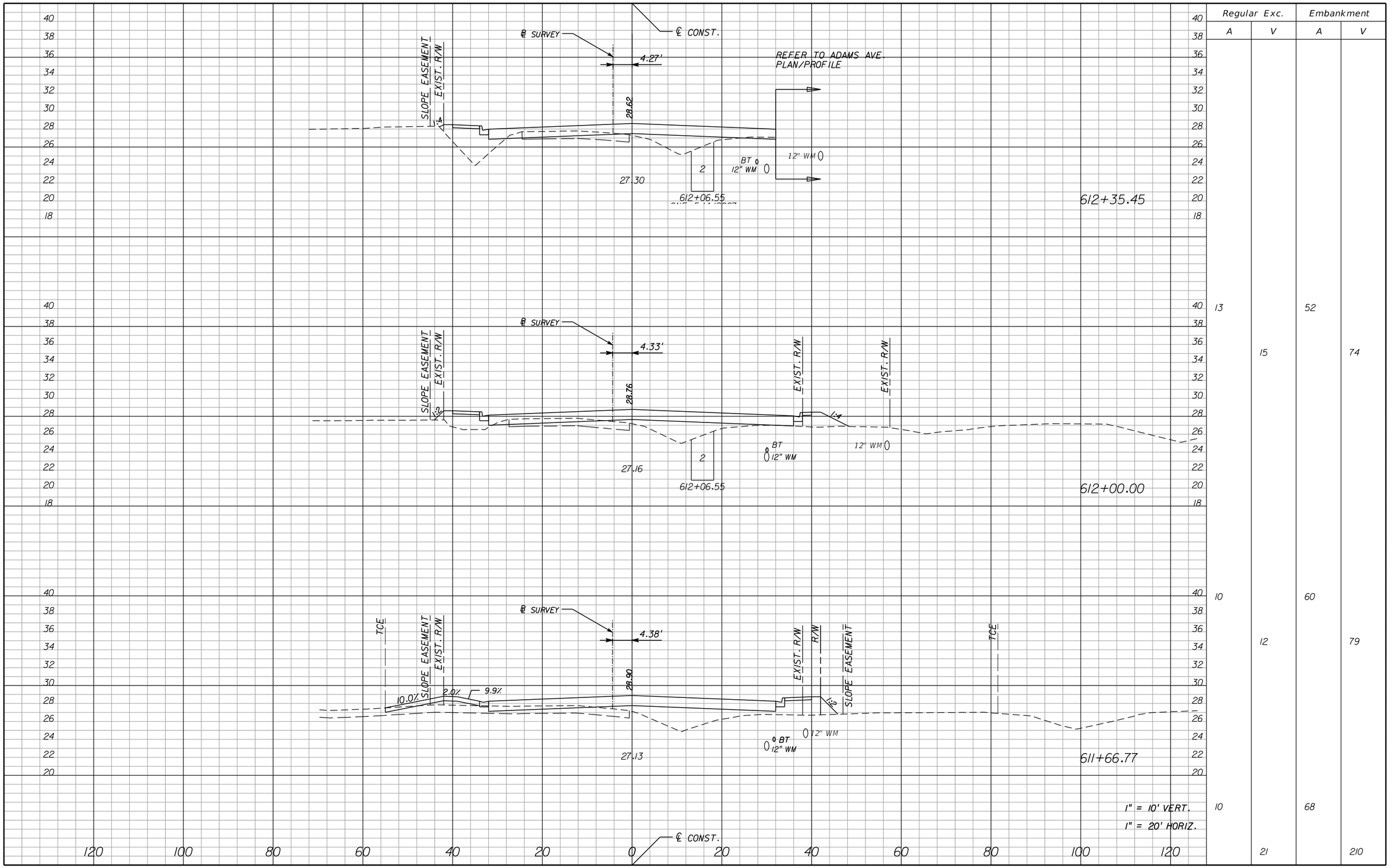
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 196

9/19/2016 11:16:15 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	13	15	52	74
	10	12	60	79
	10	21	68	210

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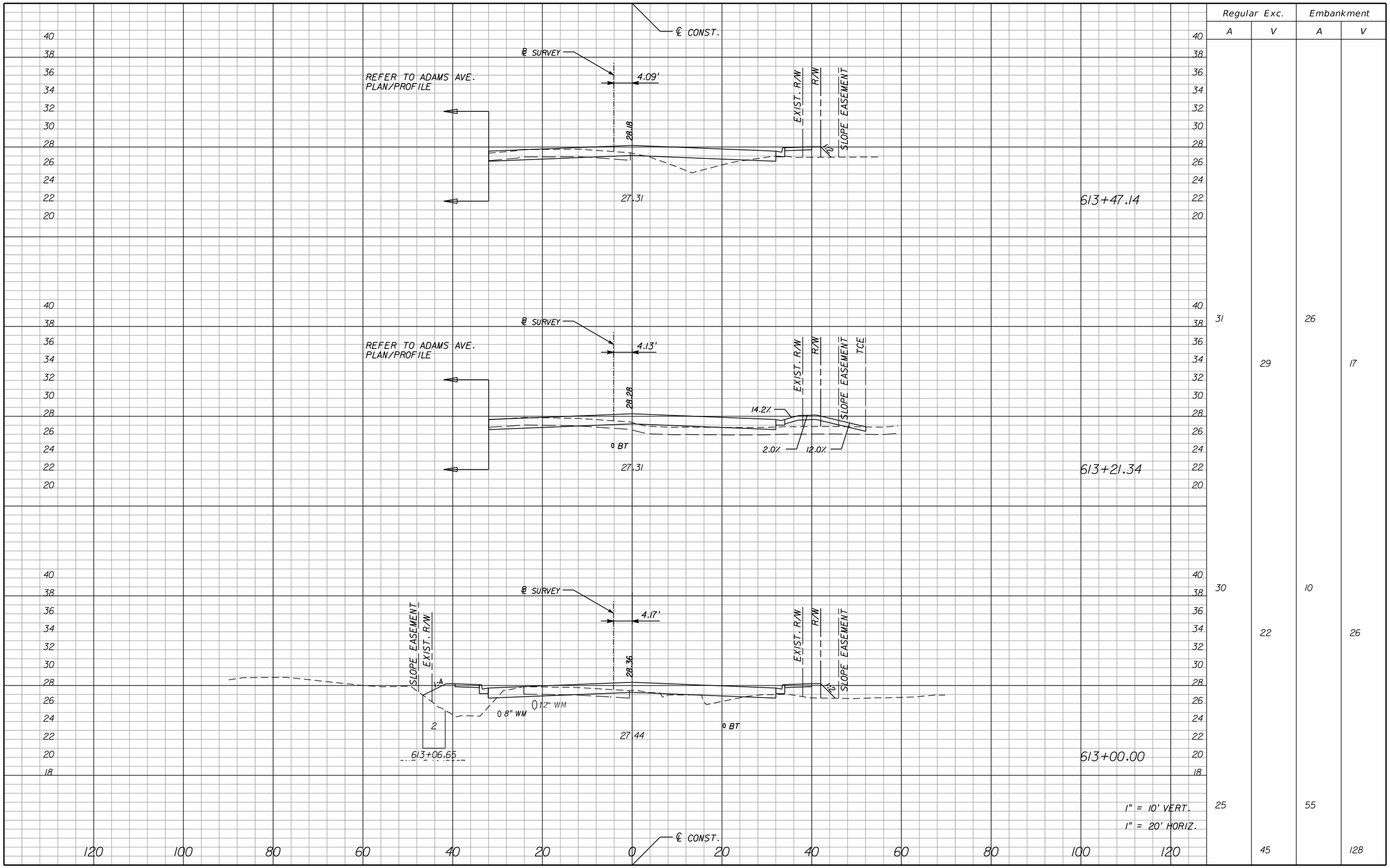
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 197



	Regular Exc.		Embankment	
	A	V	A	V
	31		26	
		29		17
	30		10	
		22		26
	25		55	
		45		128

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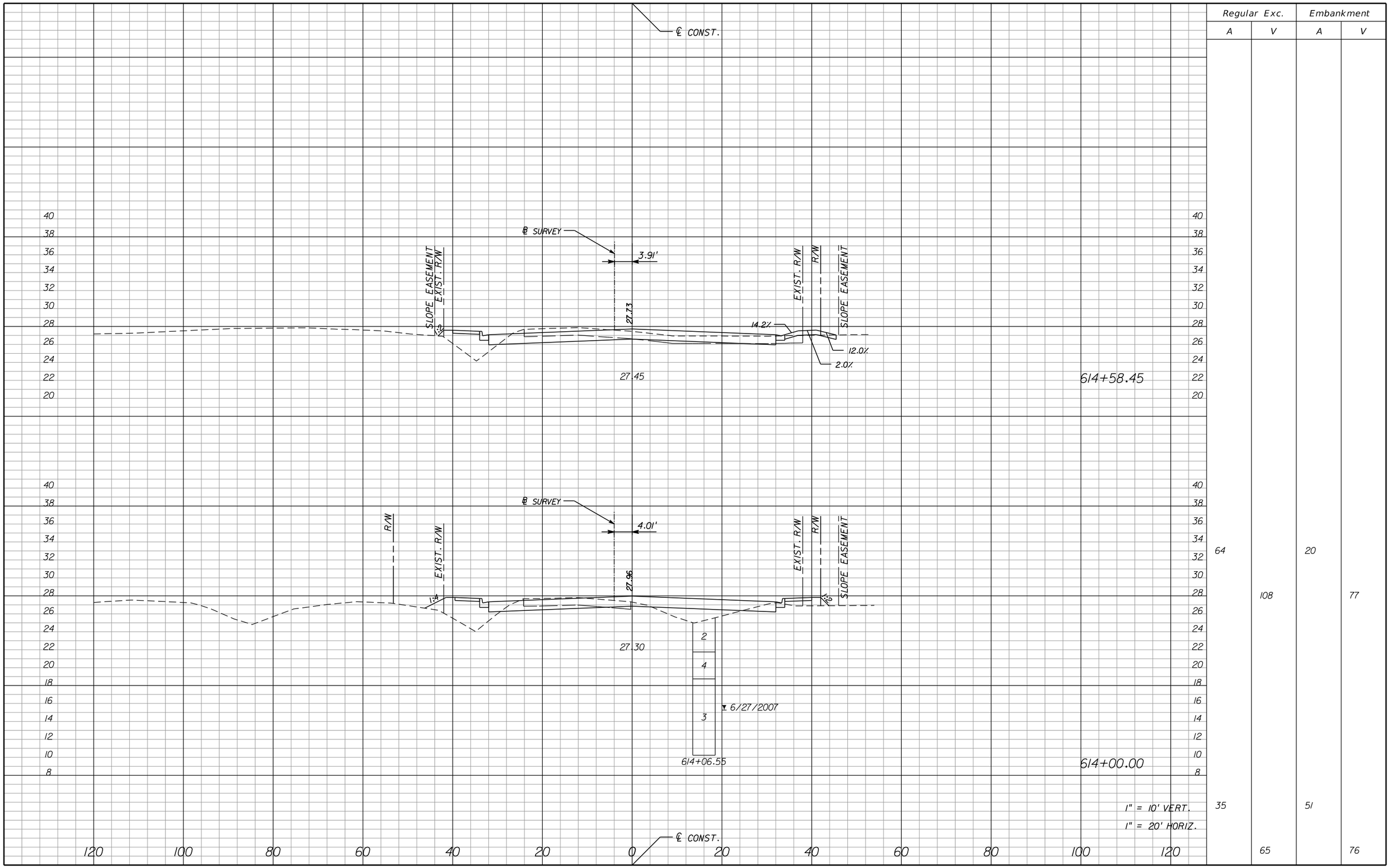
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 198

9/19/2016 11:16:17 AM PW:\2021l6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
64		20	
	108		77
35		51	
	65		76

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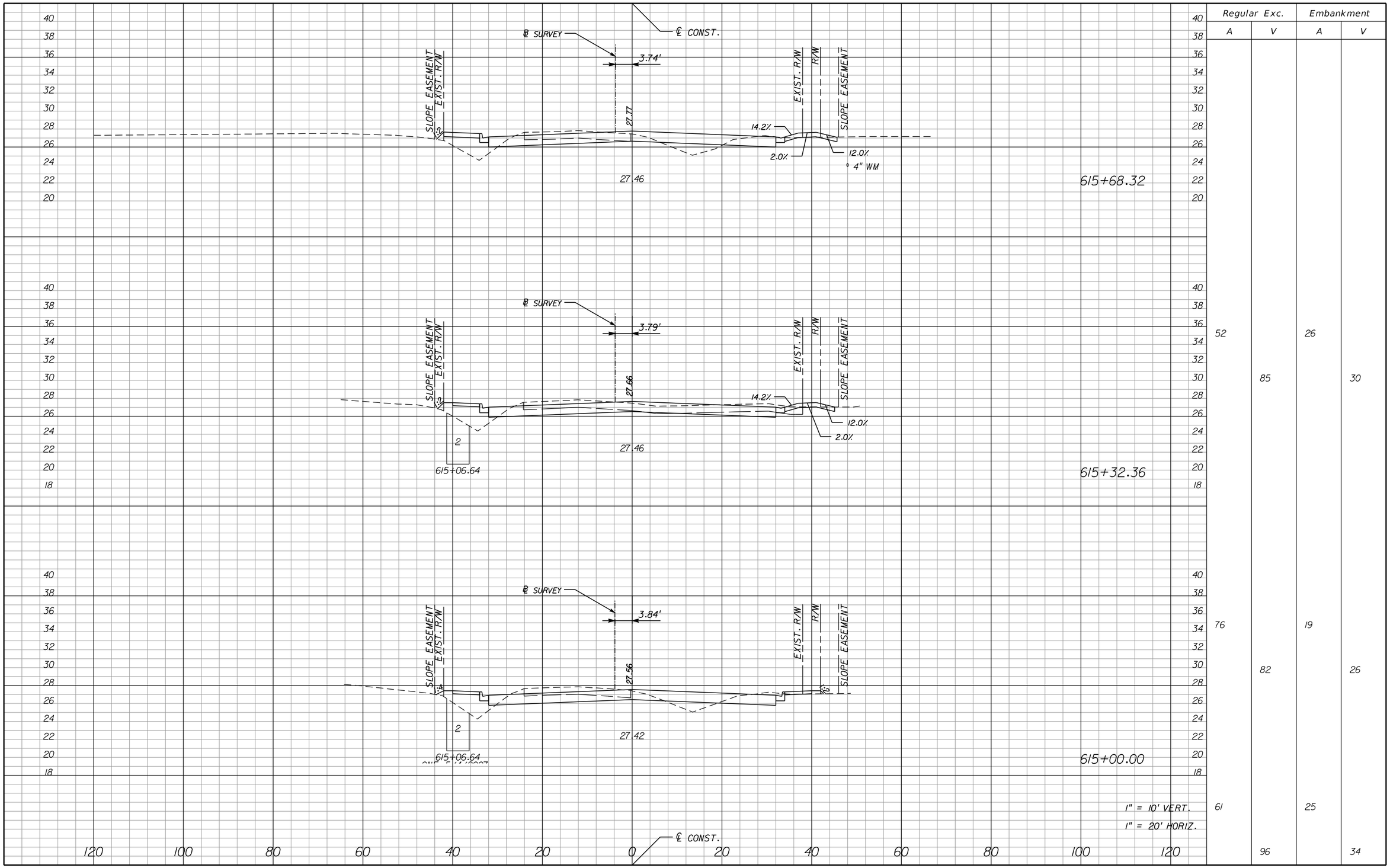
SHEET NO. 199

9/19/2016 11:16:18 AM PW:\2021I6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd0I.dgn



Regular Exc.		Embankment	
A	V	A	V
52	85	26	30
76	82	19	26
61	96	25	34

1" = 10' VERT.
1" = 20' HORIZ.

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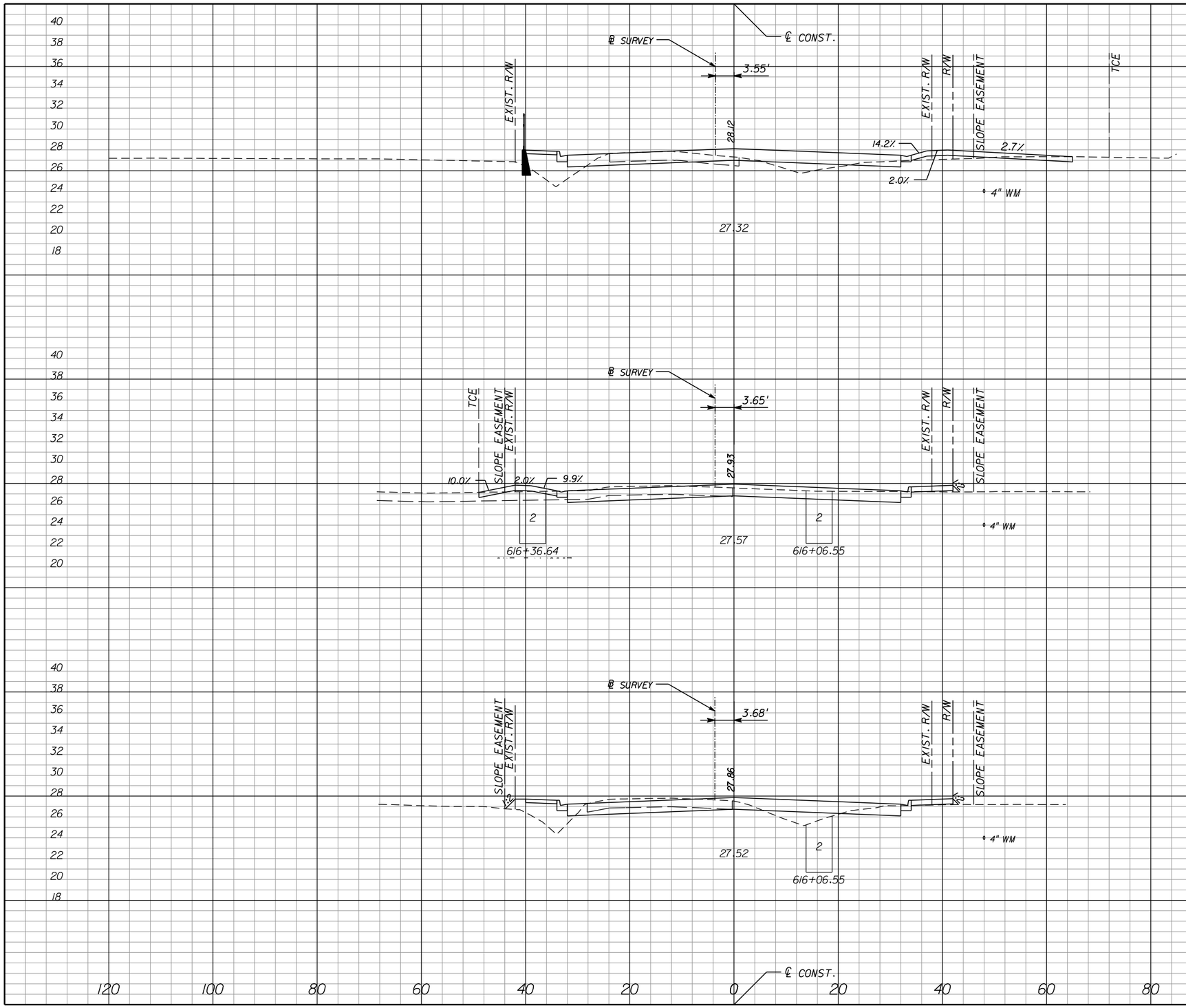
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 200

9/19/2016 11:16:19 AM PW:\2021I6\000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
35	124	30	37
68	44	1	11
47	58	29	32

1" = 10' VERT.
1" = 20' HORIZ.

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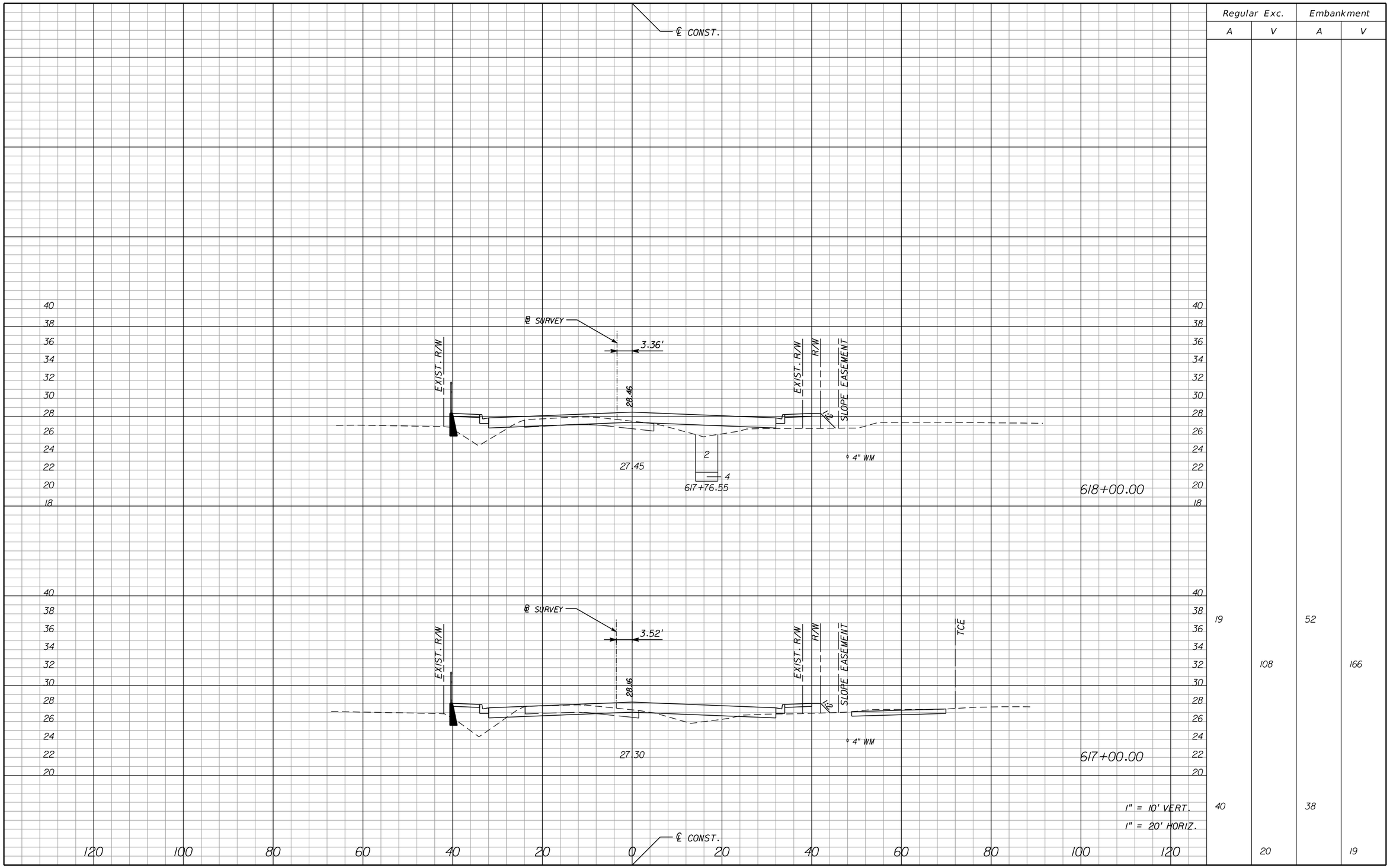
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 201

9/19/2016 11:16:20 AM PW:\2021I6\000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
19		52	
	108		166
40		38	
	20		19

1" = 10' VERT.
1" = 20' HORIZ.

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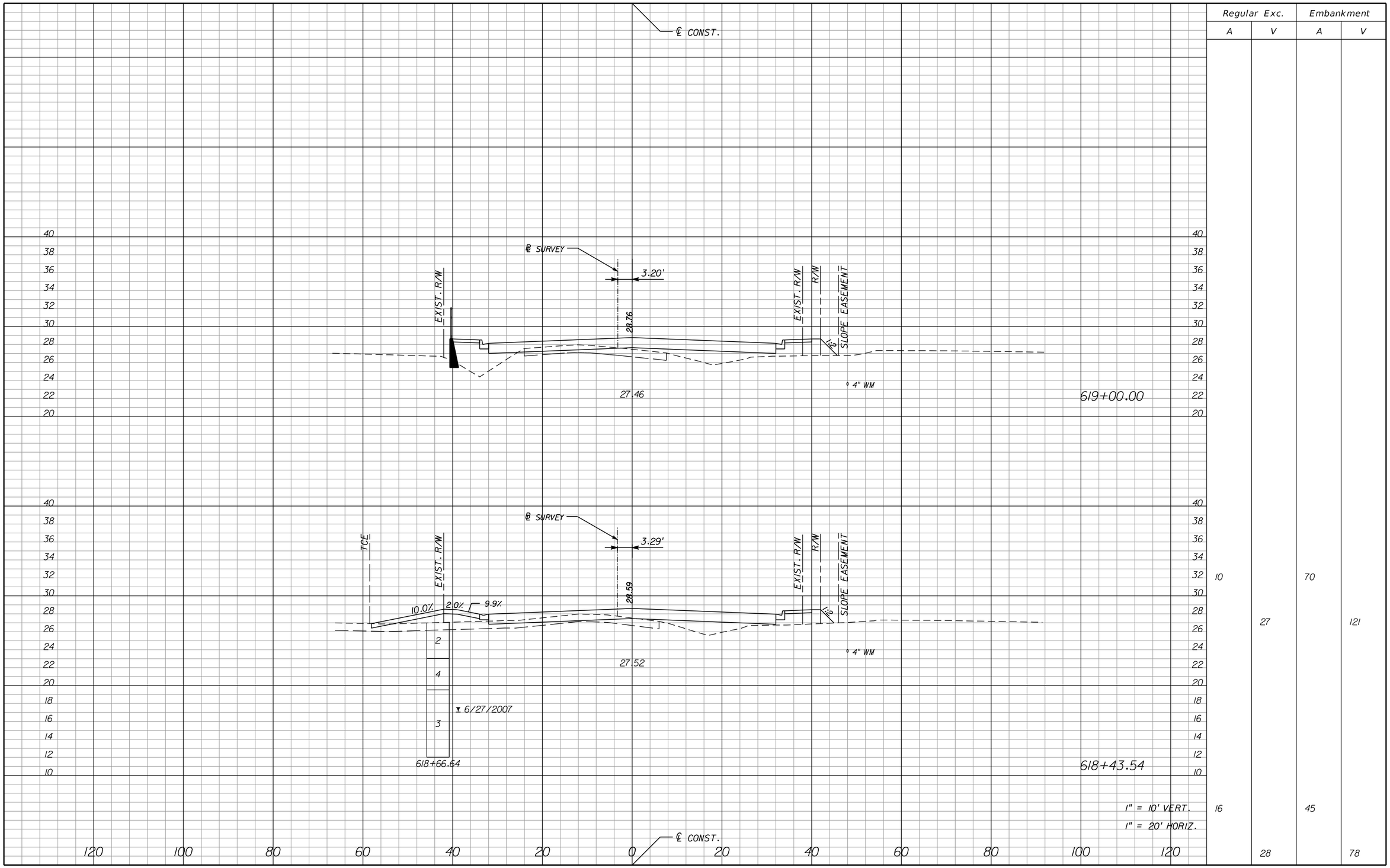
HOMESTEAD ROAD

SHEET NO.
202

9/19/2016 11:16:21 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
10		70	
	27		121
16		45	
	28		78

1" = 10' VERT.
1" = 20' HORIZ.

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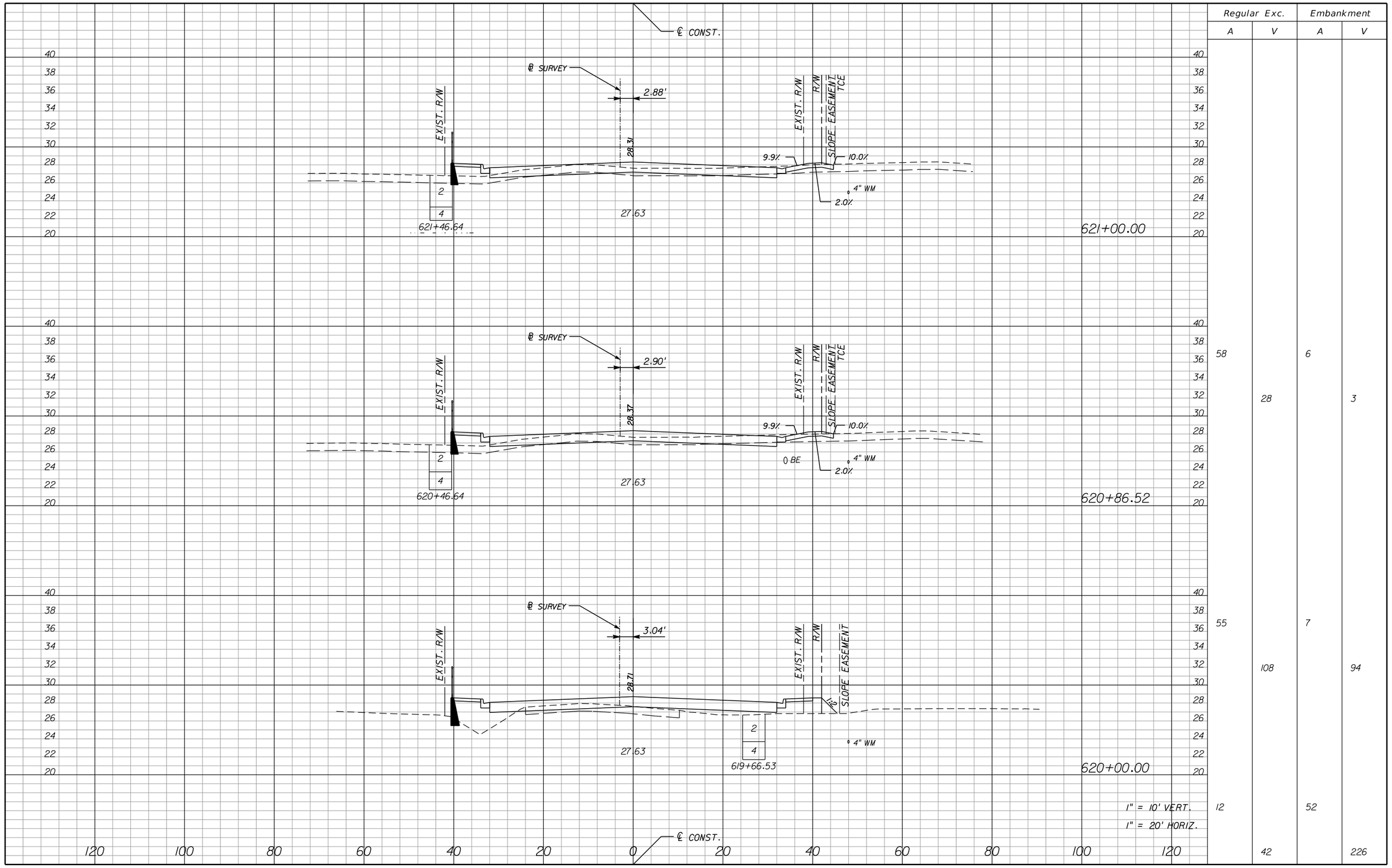
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 203

9/19/2016 11:16:22 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	58		6	
		28		3
	55		7	
		108		94
	12		52	
		42		226

1" = 10' VERT.
1" = 20' HORIZ.

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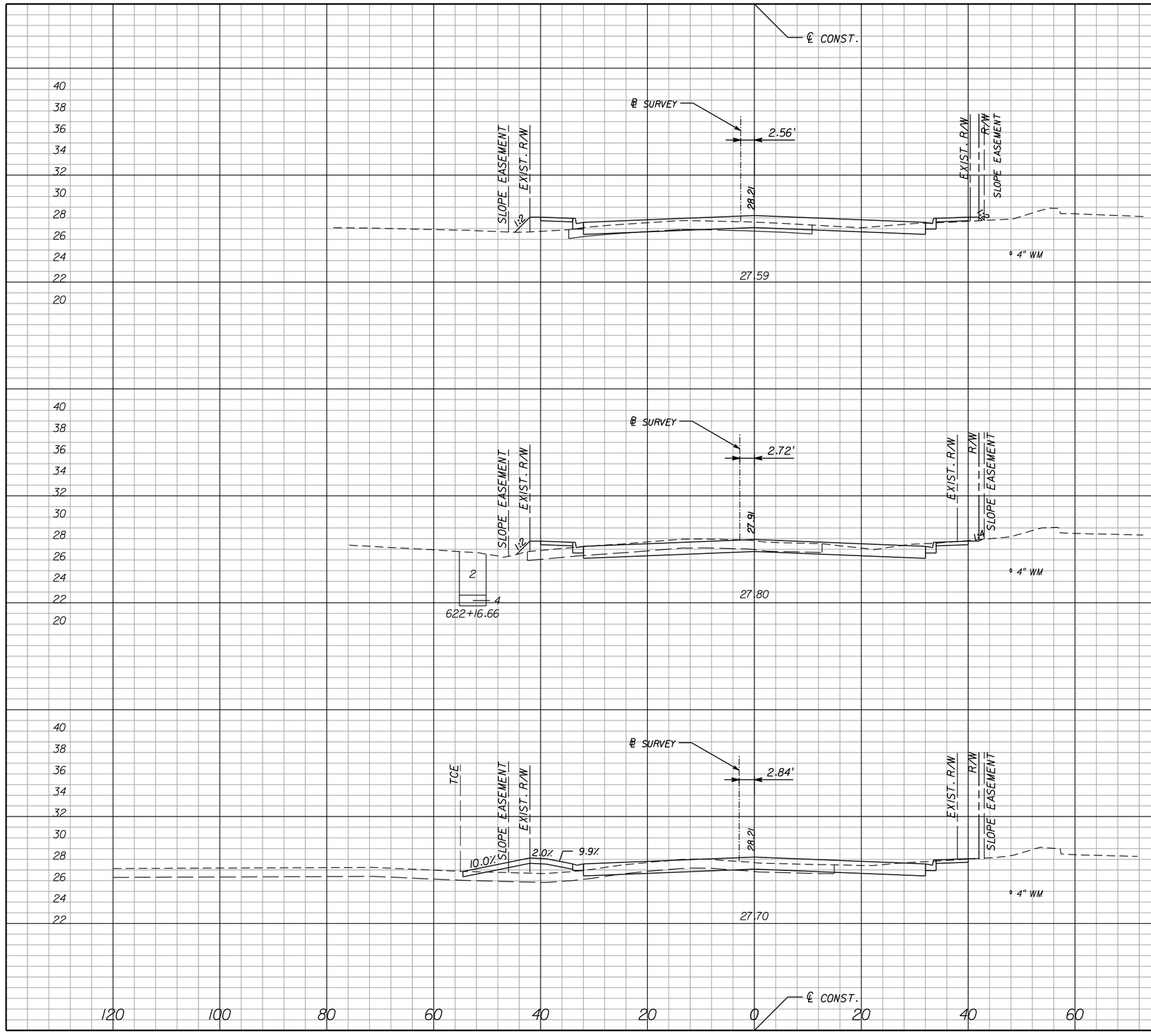
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 204



	Regular Exc.		Embankment	
	A	V	A	V
623+00.00	44	221	11	30
622+00.00	75	187	5	20
621+25.24	59	55	9	7

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CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
205

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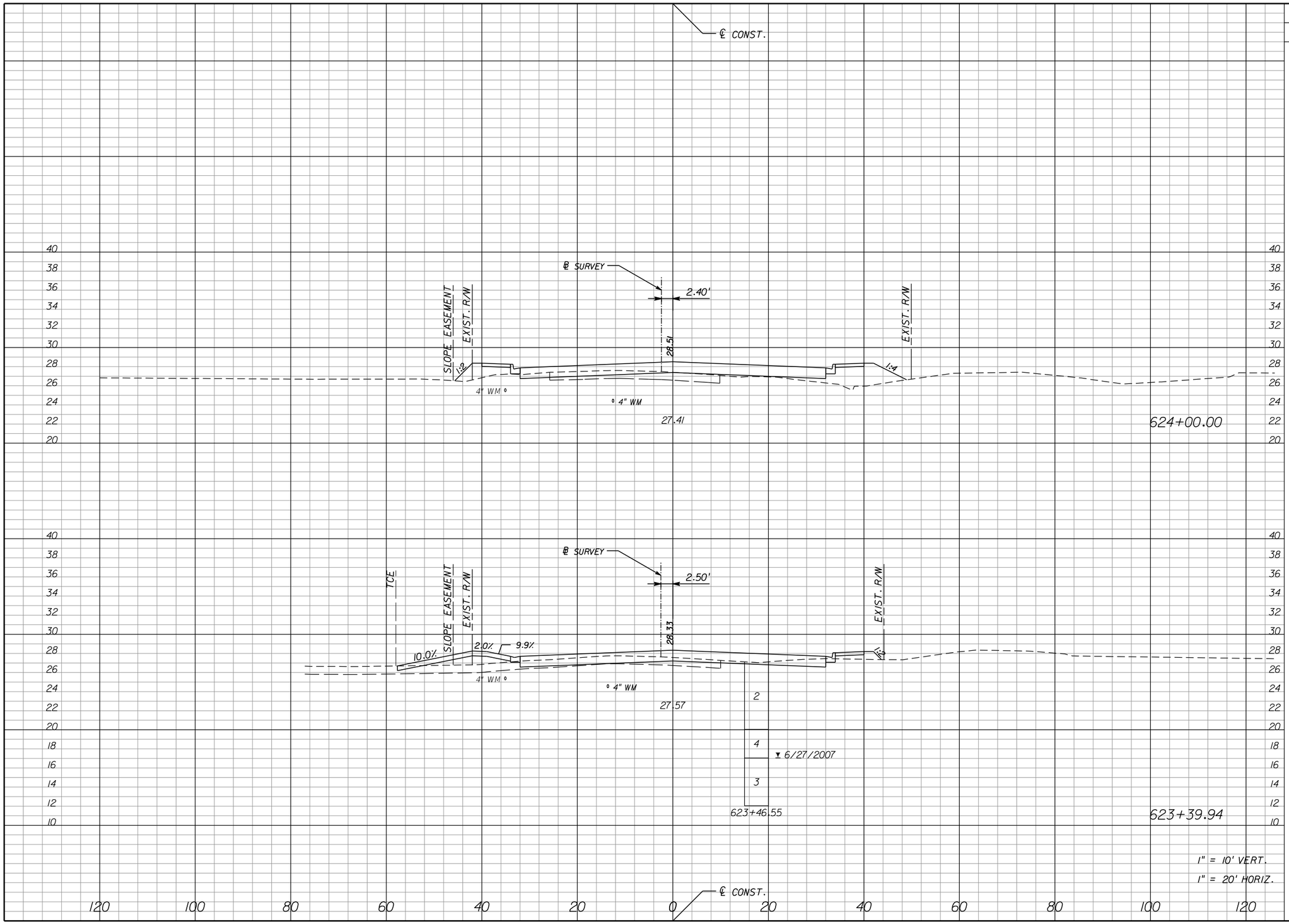

Regular Exc.		Embankment	
A	V	A	V
13	55	43	64
36	59	14	19

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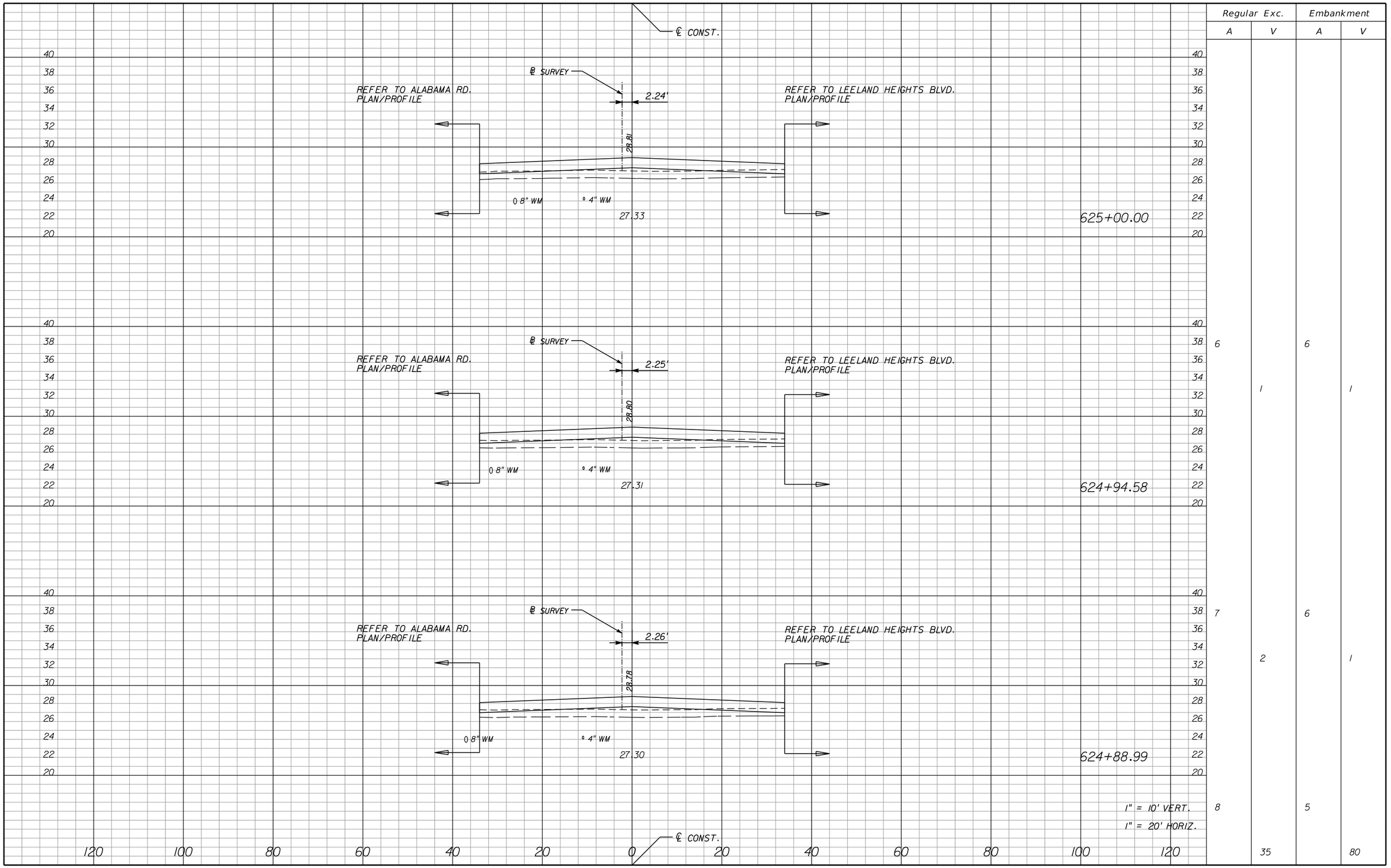
EGILBERT

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 206

9/19/2016 11:16:26 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	6		6	
		1		1
	7		6	
		2		1
	8		5	
		35		80

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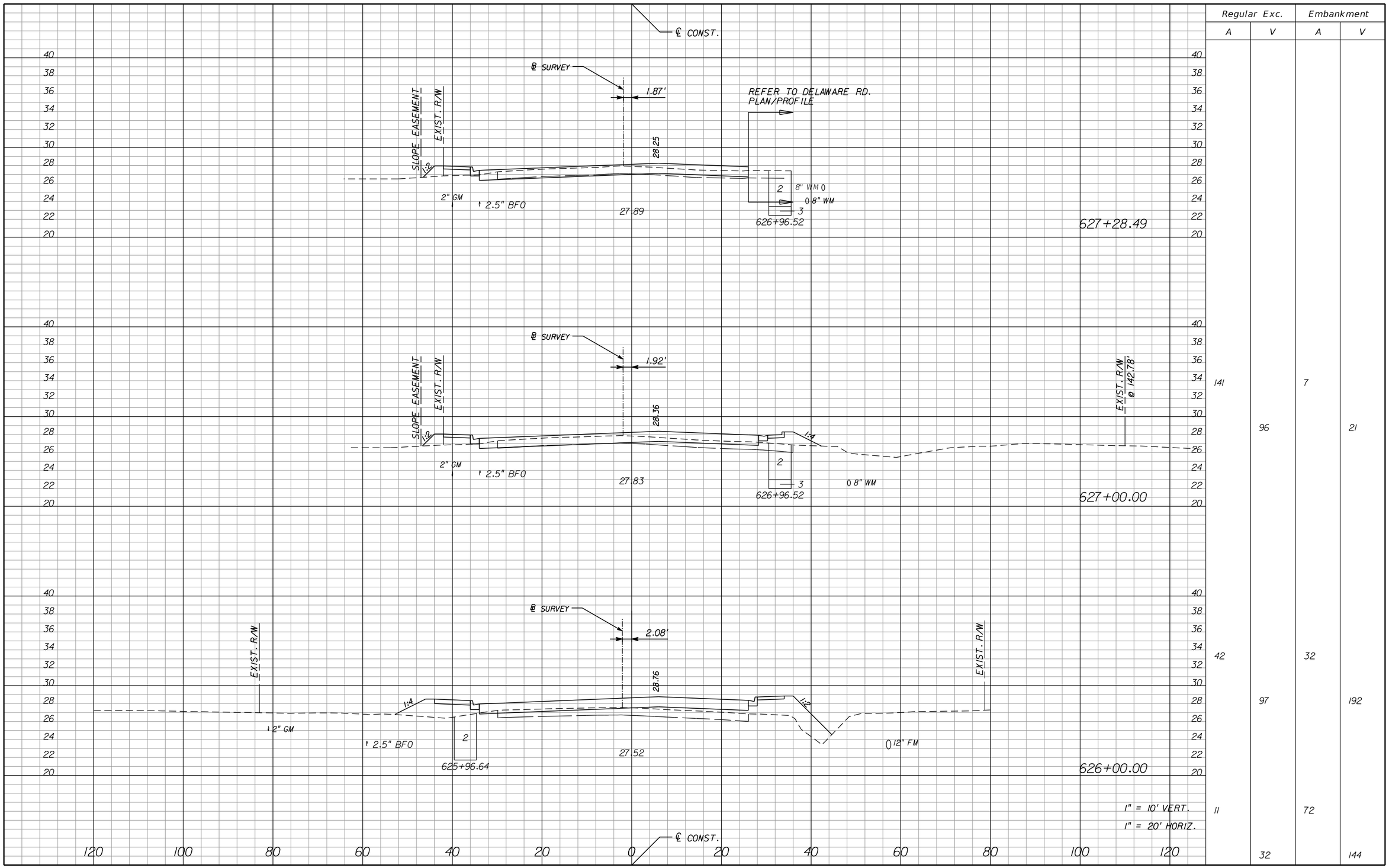
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 207

9/19/2016 11:16:27 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	141	96	7	21
	42	97	32	192
	11	32	72	144

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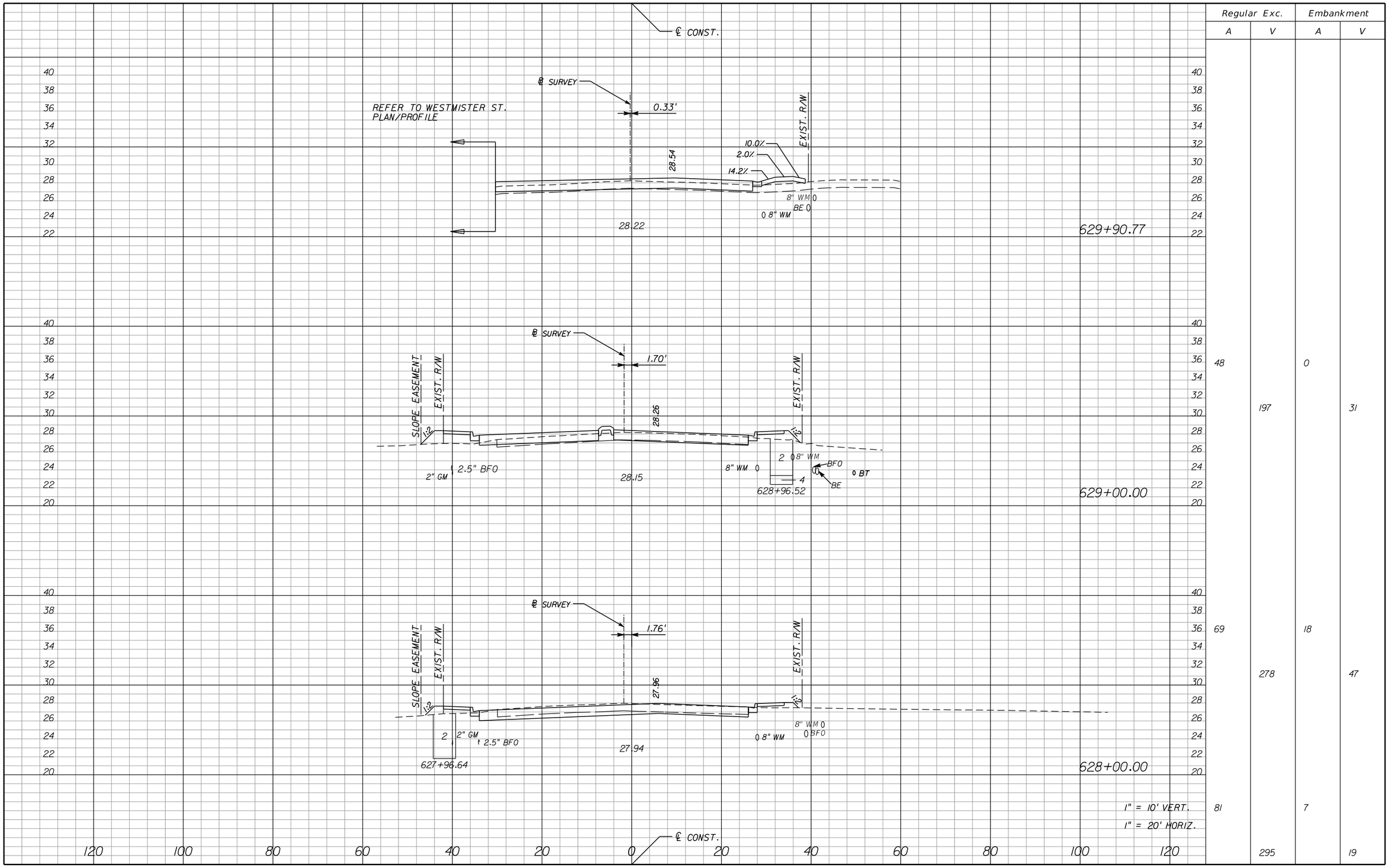
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 208

9/19/2016 11:16:29 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	48	197	0	31
	69	278	18	47
	81	295	7	19

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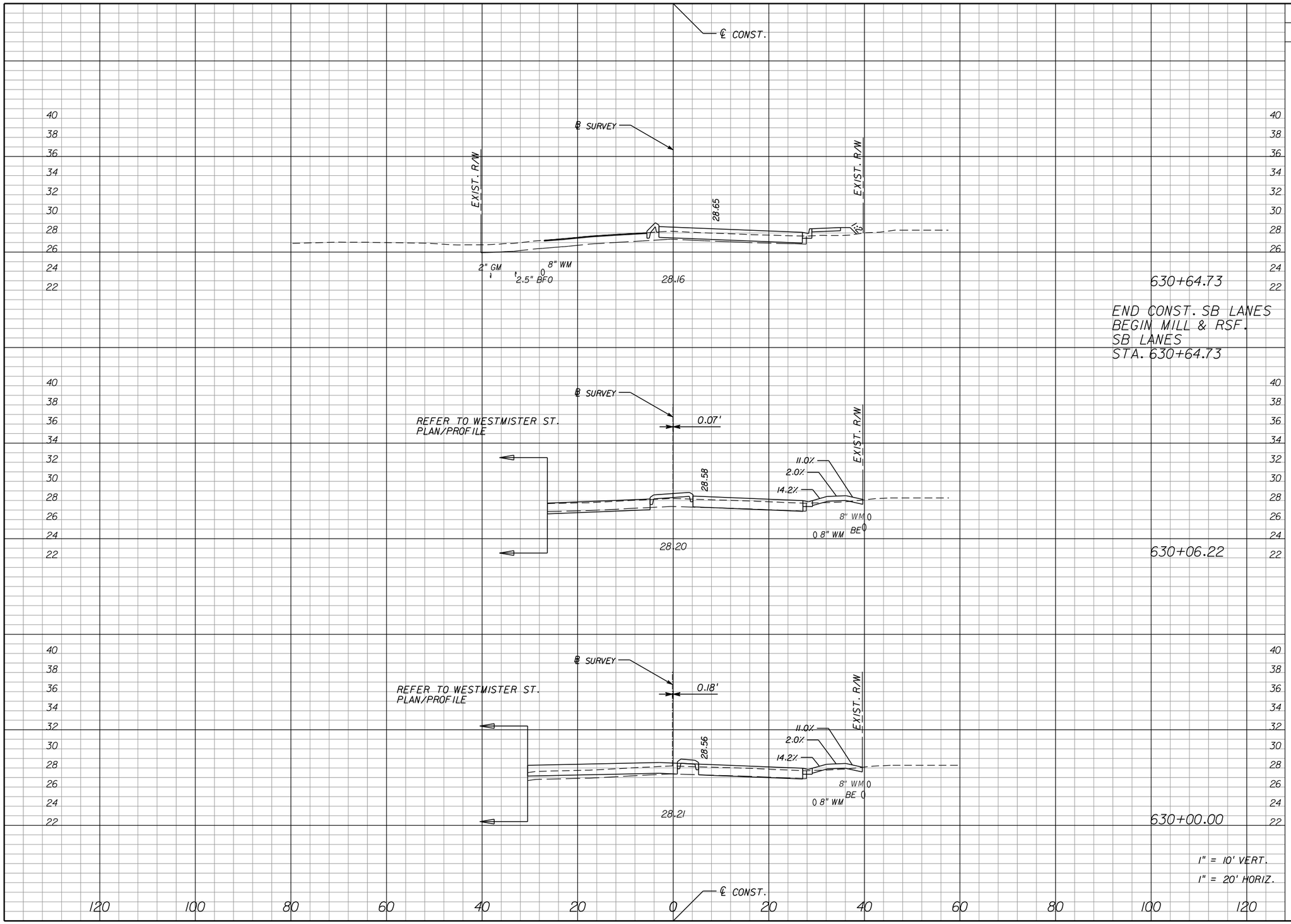
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 209



Regular Exc.		Embankment	
A	V	A	V
17	80	3	4
57	14	0	0
60	19	0	0

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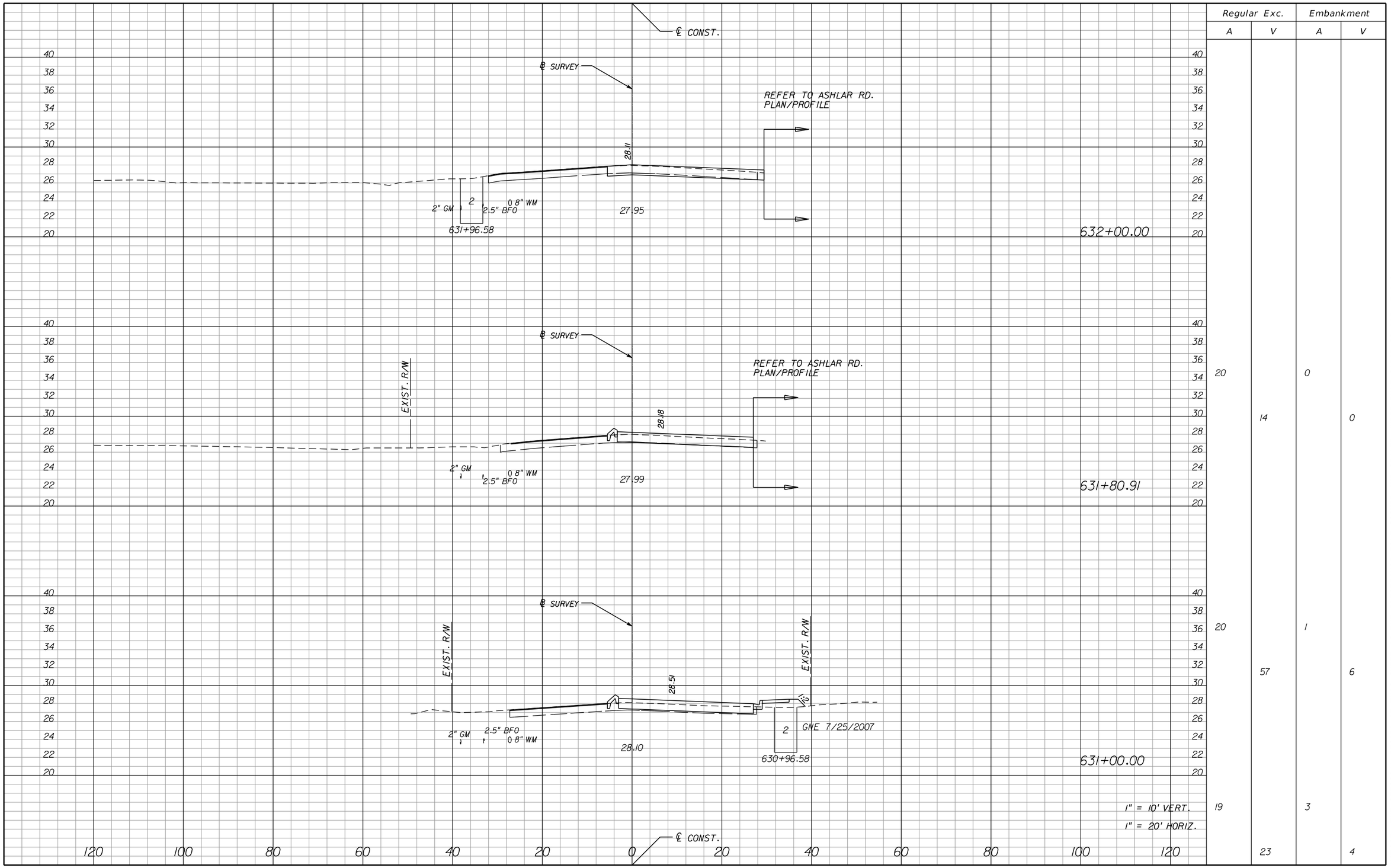
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 210



	Regular Exc.		Embankment	
	A	V	A	V
	20	14	0	0
	20	57	1	6
	19	23	3	4

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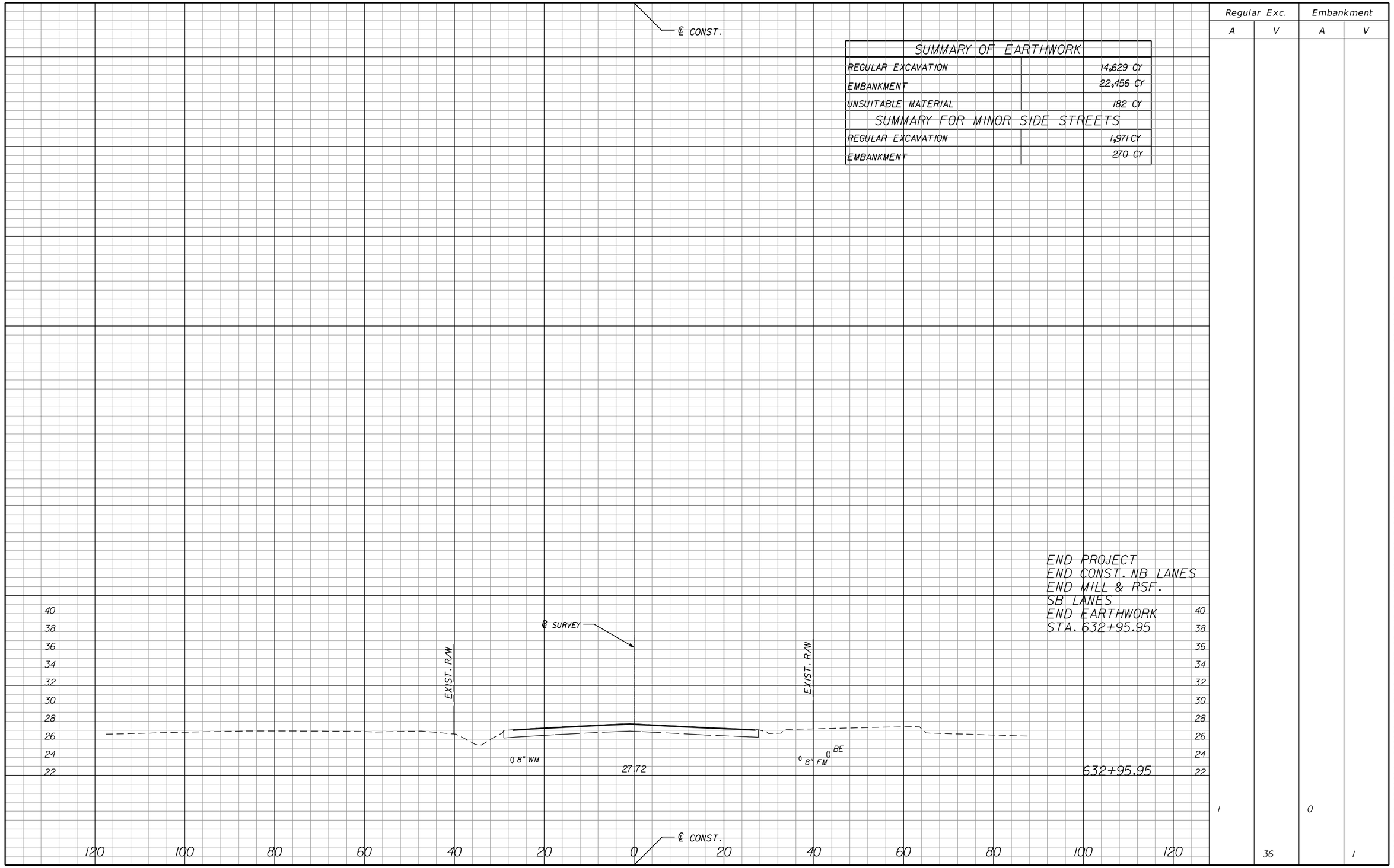
CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 211

9/19/2016 11:16:32 AM PW:\2021l6\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



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PUBLIC WORKS
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SOUTHWEST FLORIDA
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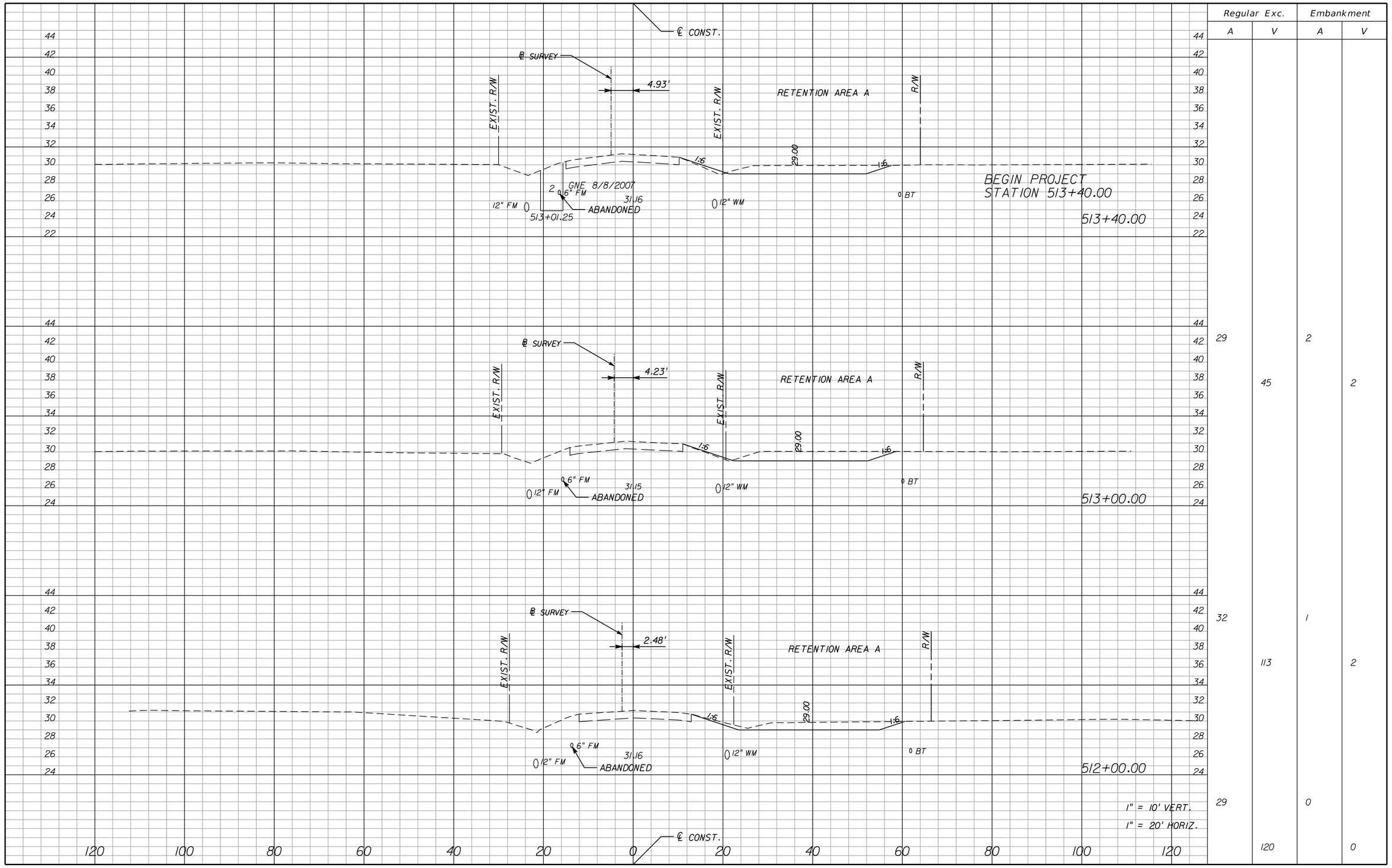
DEPARTMENT of TRANSPORTATION

EGILBERT

CROSS SECTIONS HOMESTEAD ROAD

SHEET NO. 212

9/19/2016 11:16:33 AM PW:\2021I6\000000000053055\3.00_CAD\Homestead\roadway\rdxsrd0I.dgn



	Regular Exc.		Embankment	
	A	V	A	V
	29		2	
		45		2
	32		1	
		113		2
	29		0	
		120		0

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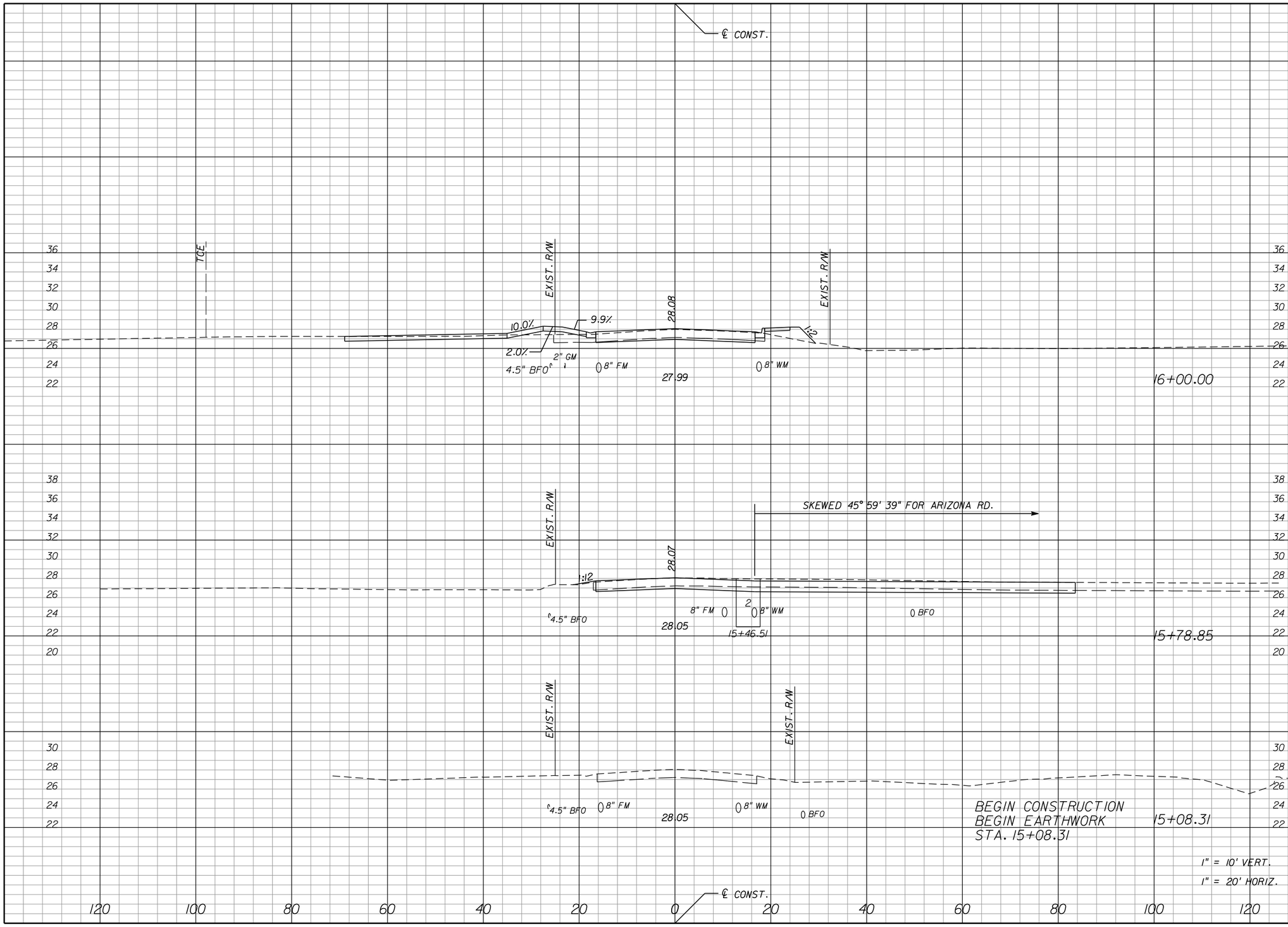
CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO. 138

EGILBERT 9/19/2016 11:16:34 AM PW:\202116\0000000000053055\V3.00_CAD\Homestead\roadway\rdxsrd01.dgn



Regular Exc.		Embankment	
A	V	A	V
38		8	
	62		3
120		0	
	157		0
0		0	

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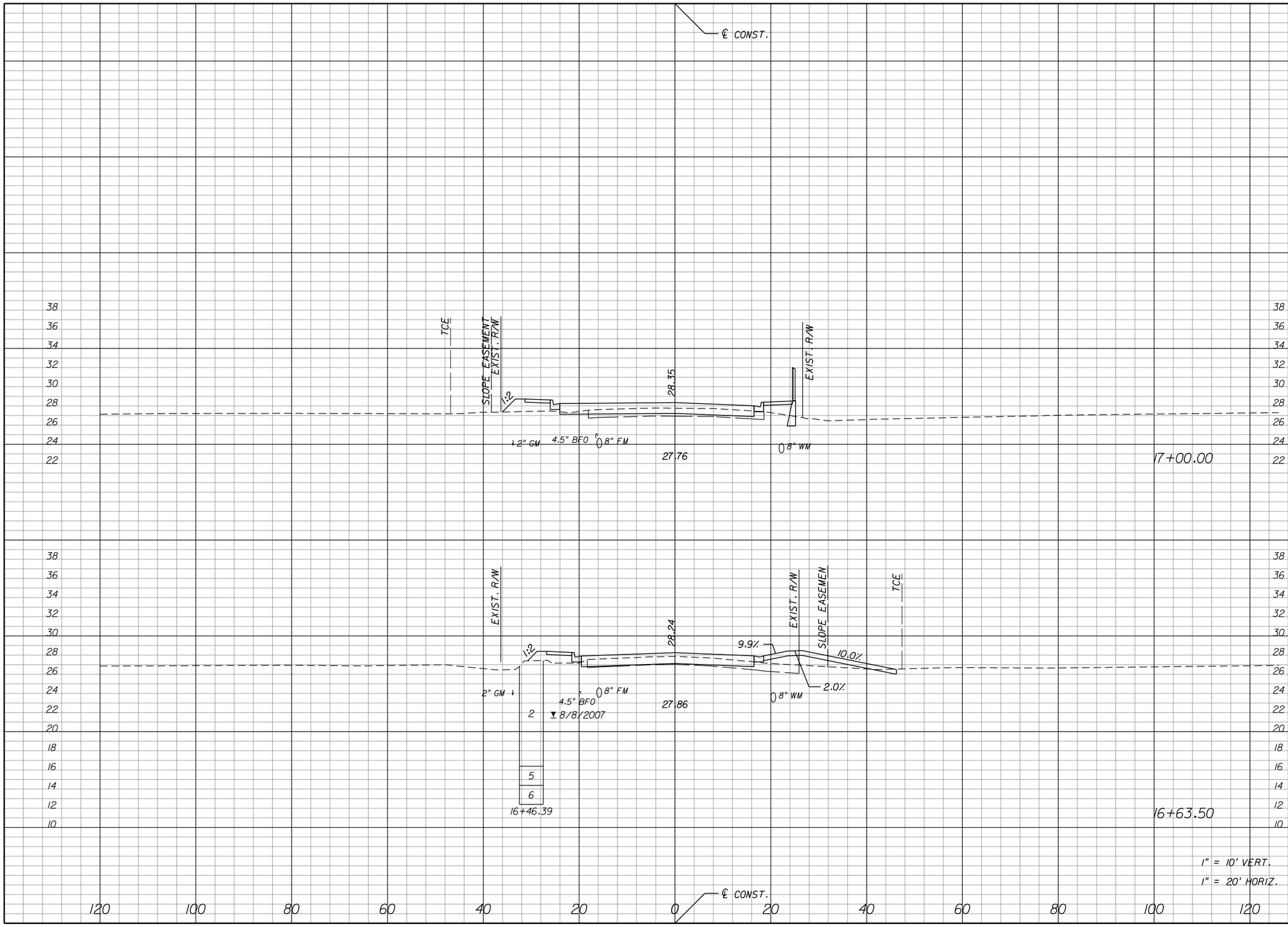
EGILBERT

CROSS SECTIONS
ALABAMA ROAD

SHEET NO.
213

9/19/2016 11:16:50 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd02.dgn



Regular Exc.		Embankment	
A	V	A	V
24		14	
	34		27
27		27	
	76		40

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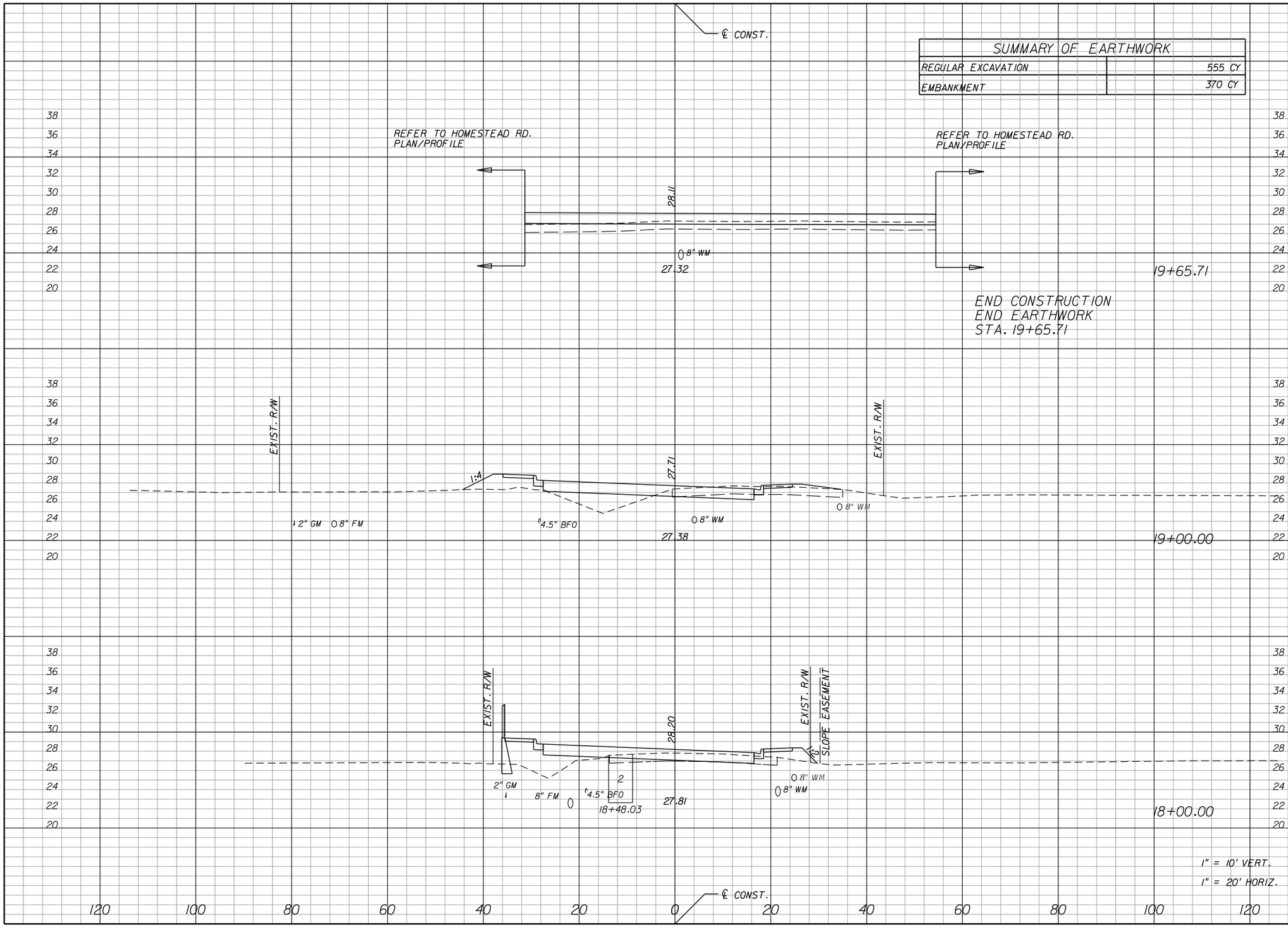
CROSS SECTIONS
ALABAMA ROAD

SHEET NO. 214

9/19/2016 11:16:51 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\roadway\rdxsrd02.dgn

SUMMARY OF EARTHWORK

REGULAR EXCAVATION	555 CY
EMBANKMENT	370 CY



	Regular Exc.		Embankment	
	A	V	A	V
	20	53	0	50
	23	86	41	150
	23	87	40	100

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CROSS SECTIONS ALABAMA ROAD

SHEET NO. 215

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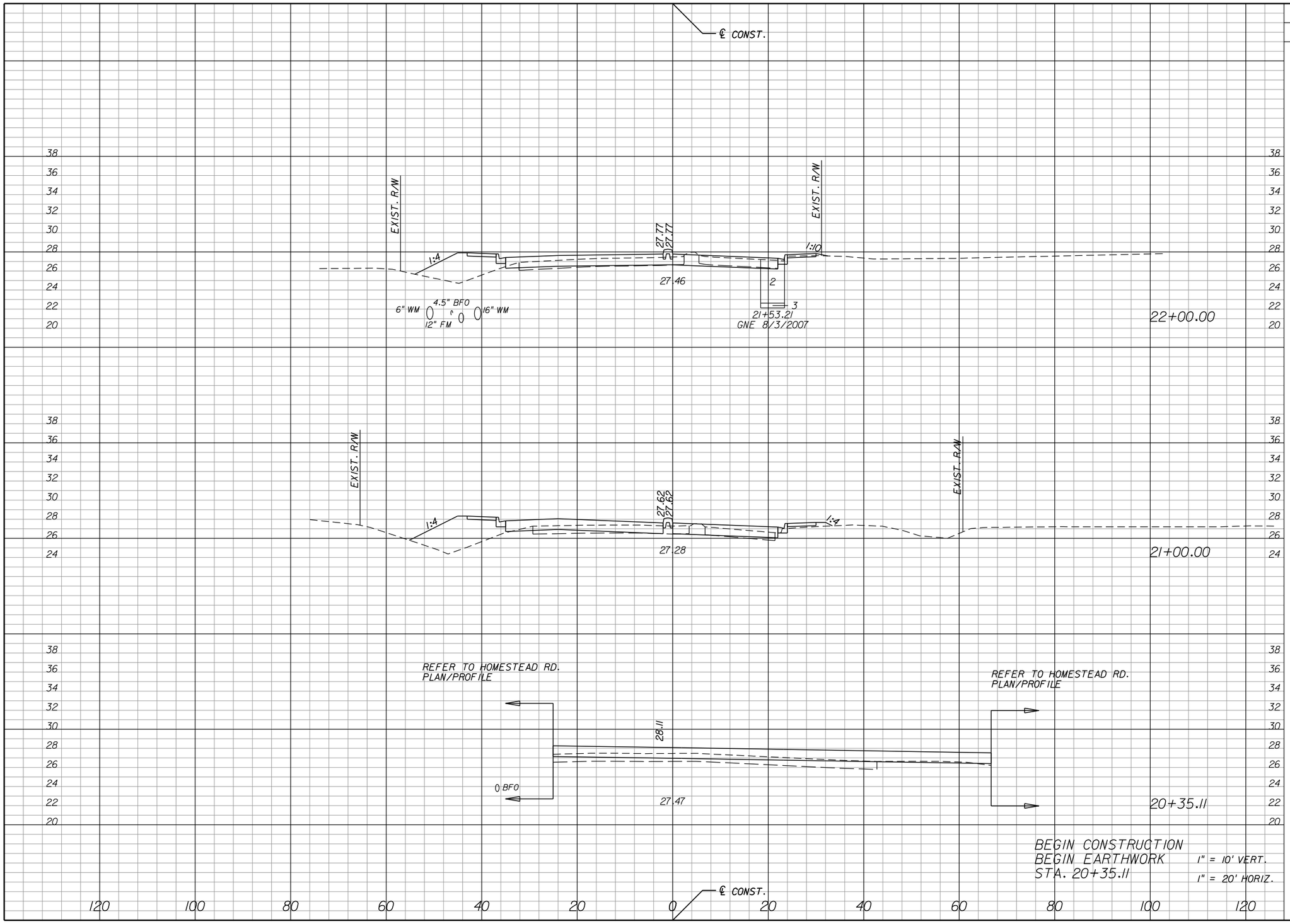

Regular Exc.		Embankment	
A	V	A	V
48		33	
	153		146
35		46	
	72		55
25		0	
	0		0

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EGILBERT

CROSS SECTIONS
LEELAND HEIGHTS BLVD.

SHEET NO. 216

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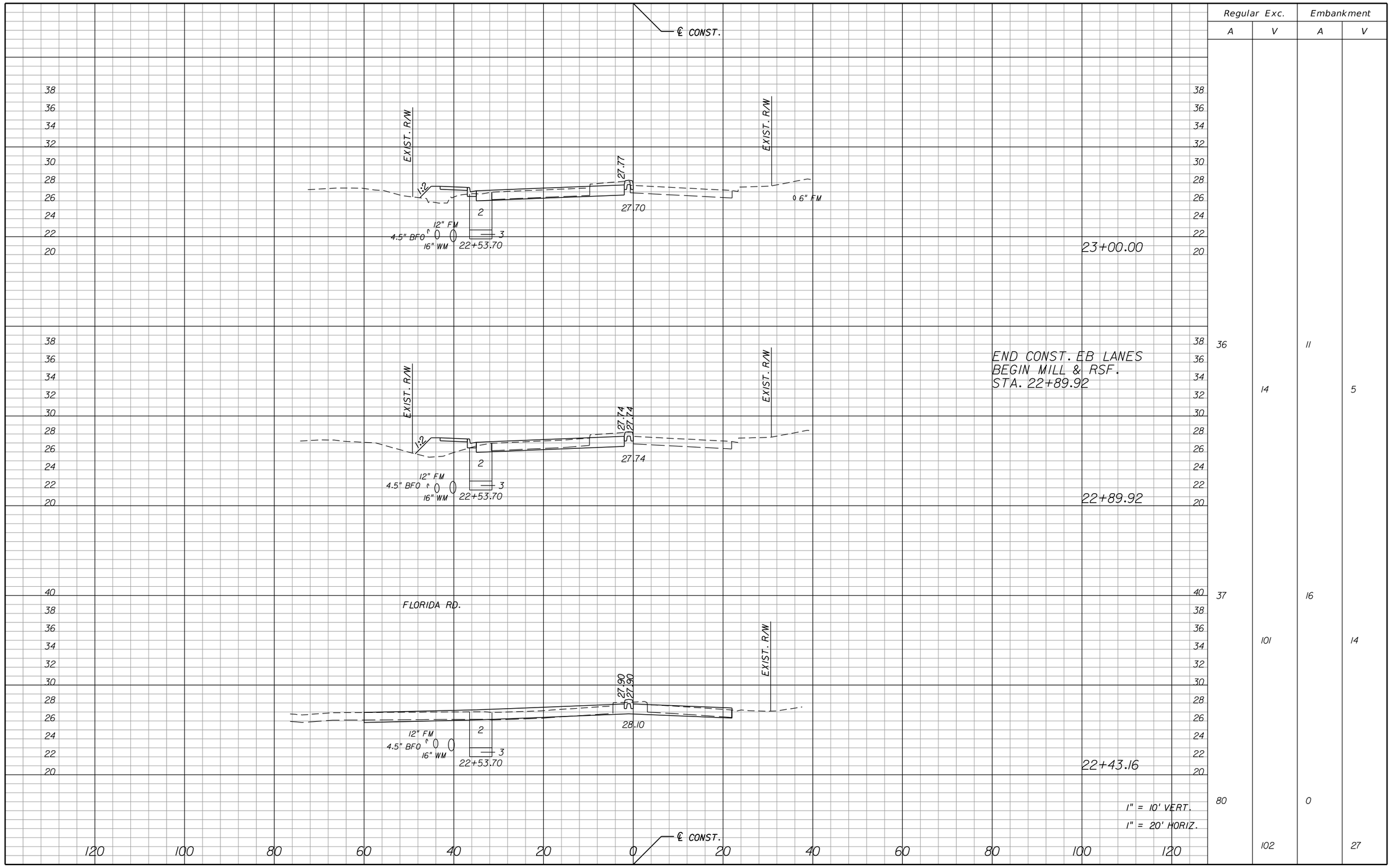

	Regular Exc.		Embankment	
	A	V	A	V
	36	14	11	5
	37	101	16	14
	80	102	0	27

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CROSS SECTIONS
LEELAND HEIGHTS BLVD.

SHEET NO.
217

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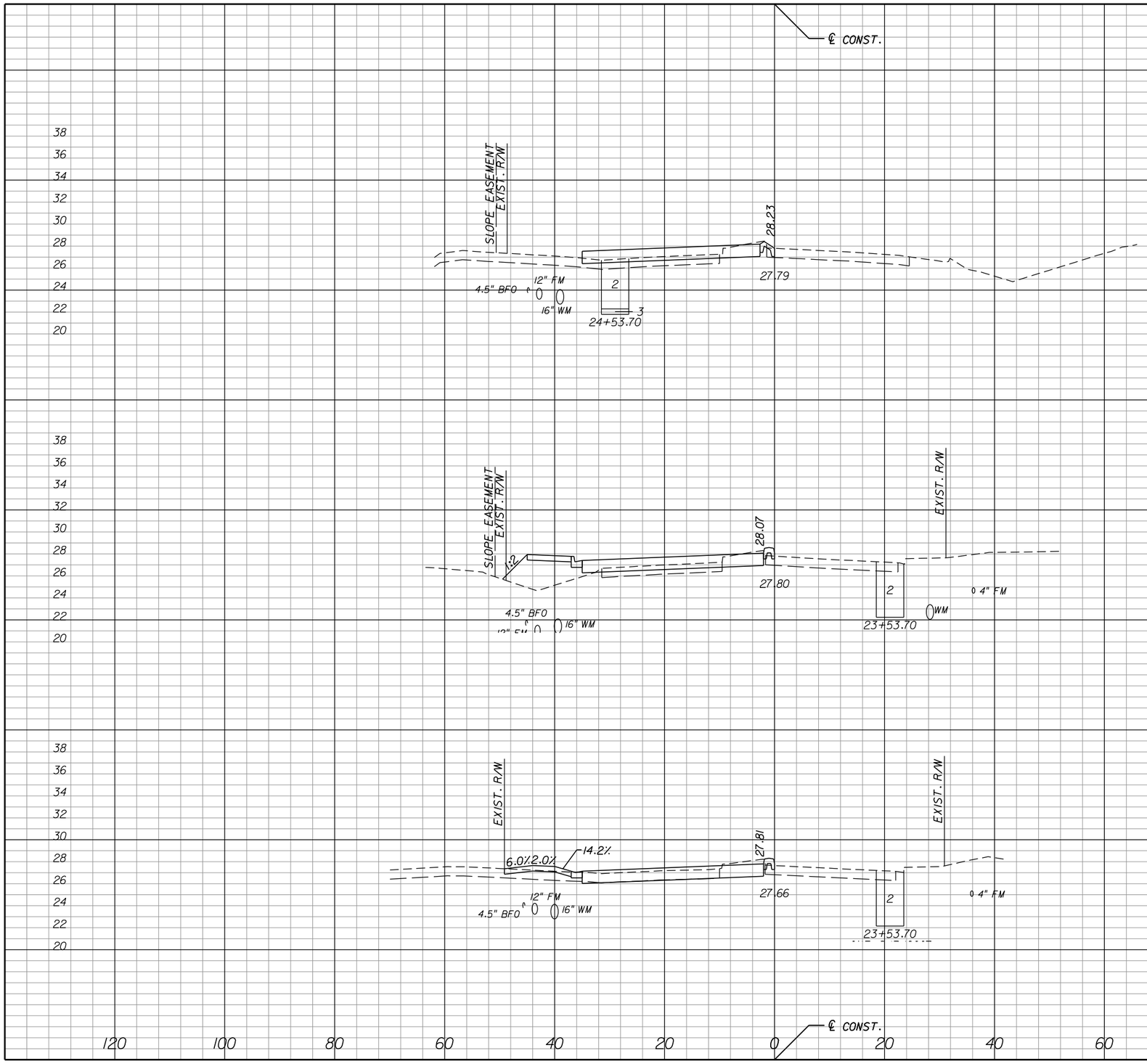

	Regular Exc.		Embankment	
	A	V	A	V
	18		2	
		37		30
	18		28	
		86		44
	36		0	
		20		3

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CROSS SECTIONS
LEELAND HEIGHTS BLVD.

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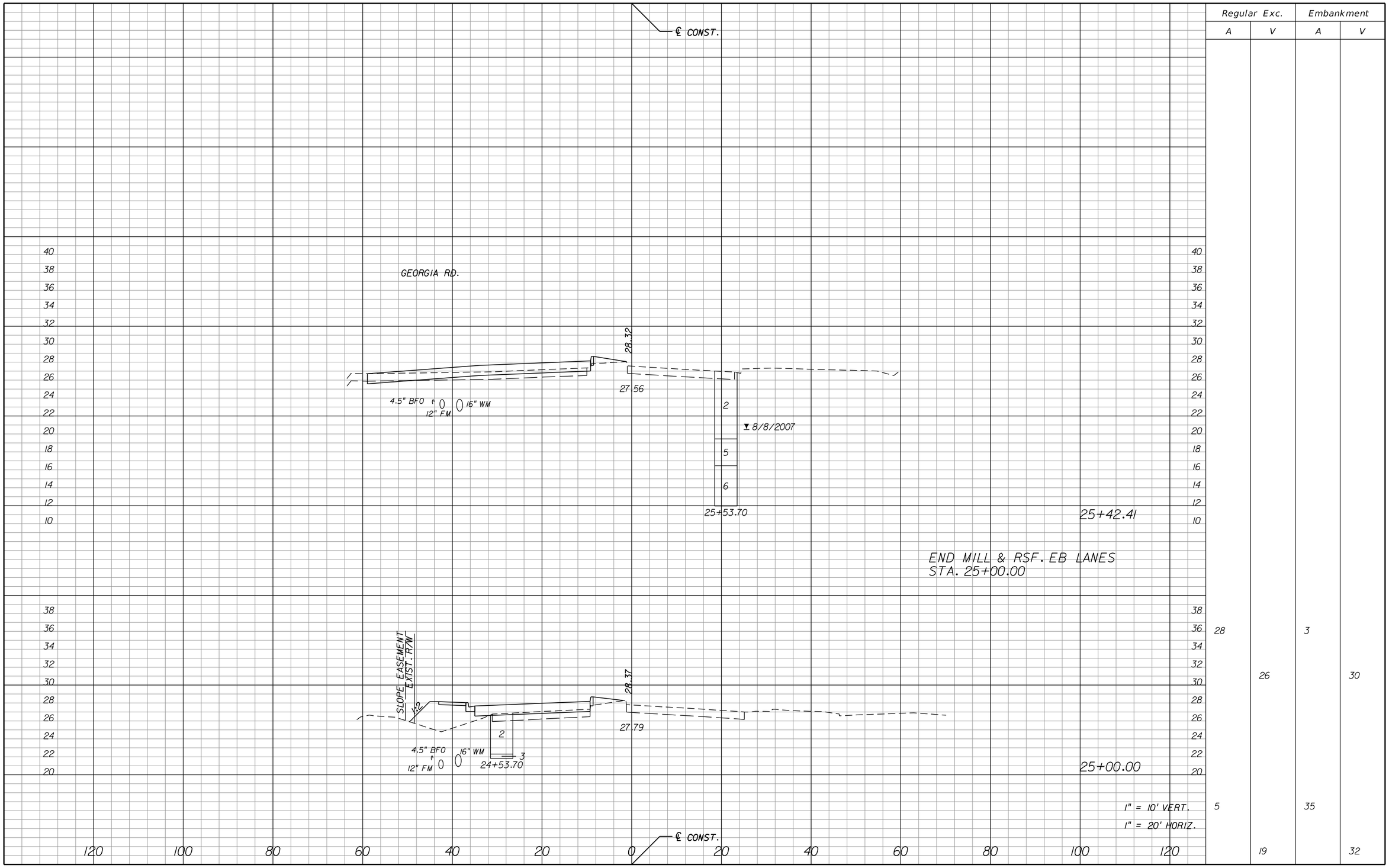

Regular Exc.		Embankment	
A	V	A	V
28		3	
	26		30
5		35	
	19		32

1" = 10' VERT.
1" = 20' HORIZ.

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CROSS SECTIONS LEELAND HEIGHTS BLVD.

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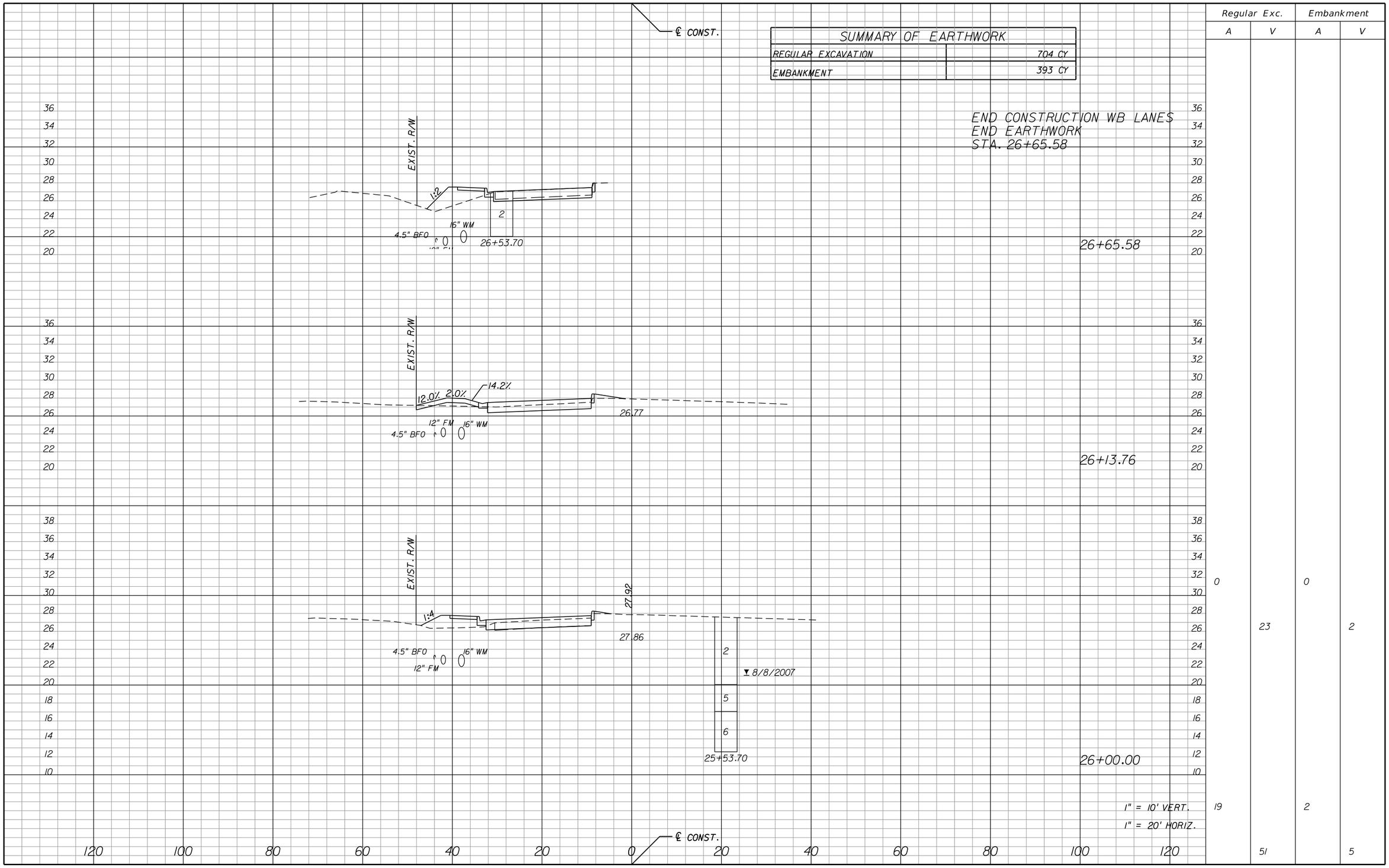

	Regular Exc.		Embankment	
	A	V	A	V
	0		0	
		23		2
	19		2	
		51		5

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LEELAND HEIGHTS BLVD.

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STORM WATER POLLUTION PREVENTION PLAN HOMESTEAD ROAD

PROJECT NO.: 5063
LEE COUNTY

I. SITE DESCRIPTION:

A. NATURE OF CONSTRUCTION ACTIVITY:

1) THE PROJECT IS LOCATED IN LEE COUNTY ON HOMESTEAD ROAD. THE PROJECT IS 2.321 MILES IN LENGTH. THE EXISTING ROADWAY IS A 2-LANE FACILITY. HOMESTEAD ROAD IS PROPOSED TO BE WIDENED TO 4-LANES CURB AND GUTTER. THE PROJECT ALSO INCLUDES THE CONSTRUCTION OF TWO CONTROL STRUCTURES WITHIN THE EXISTING LEHIGH ACRES MUNICIPAL SERVICE DISTRICT TO PROVIDE STORMWATER TREATMENT AND ATTENUTATION.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

1) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.

2) THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.

3) APPLICABLE EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES 100 THROUGH 106.

4) THE CONTRACTOR IS RESPOSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION CONTROL DEVICES FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL TO OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

C. GENERAL NOTES:

1) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO THE BEGINNING OF WORK ON THAT PHASE.

2) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFOR THE LAND IS DISTURBED.

3) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTORS APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH / SWALE CHECK DAMS DURING CONSTRUCTION.

4) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.

5) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.

6) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.

7) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.

8) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

9) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

10) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.

11) THE CONTRACTOR SHALL PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE US. WETLAND IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

D. AREAS ESTIMATES:

TOTAL PROJECT AREA: 30 ACRES.
TOTAL AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES: 30 ACRES.

E. RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20
IMPERVIOUS ROADWAYS, CONCRETE AND PAVED SHOULDER(S): C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40
WEIGHTED RUNOFF COEFFICIENT:
BEFORE: Cw(B) = 0.6 DURING: Cw(D) = 0.7 AFTER: Cw(A) = 0.9
THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw(D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION, AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

F. SOILS DATA:

THE MAJORITY OF THE PROJECT LIES WITHIN TYPE B/D SOILS COMPRISED OF OLDSMAR SAND. WITH A DEPTH TO THE SEASONAL HIGH WATER TABLE OF 2-2.5 FEET.

G. ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

1) SITE MAP: INCLUDED ON ROADWAY PLAN SHEETS IN THE PLAN SET.

2) DRAINAGE MAP : INCLUDED IN THE PLAN SET

H. RECEIVING WATERS:

THE ON-SITE RUNOFF IS COLLECTED AND CONVEYED VIA PROPOSED STORM SEWER SYSTEMS TO CANAL(S) 57-4-7,57-4-3 (BONEFISH CANAL), 47-32-4 (SPUR A CANAL), AND 47-31-9 (DAVE CANAL); ALL OF WHICH OUTFALL INTO THE ORANGE CANAL. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURE TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAYS.

I. THE OUTFALLS ARE 303(d) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS), TURBIDITY, AND SETTLEABLE SOLIDS.

J. OUTFALL LOCATION: (TEMPORARY AND PERMANENT)

		LATITUDE N	LONGITUDE W	RECEIVING WATER
(1)	CANAL 57-4-7	26° 35' 19.0"	81° 37' 45.4"	ORANGE CANAL
(2)	CANAL 57-5-3	26° 35' 47.3"	81° 38' 17.3"	ORANGE CANAL / BONEFISH CANAL
(3)	CANAL 47-32-4	26° 35' 54.7"	81° 38' 25.7"	ORANGE CANAL / SPUR A CANAL
(4)	47-31-9	26° 36' 11.5"	81° 38' 46.0"	ORANGE CANAL

K. WETLAND IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

L. DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

EXISTING DRAINAGE RUNOFF TYPICALLY SHEET FLOWS TO ROADSIDE SWALES WITH NO FORMAL TREATMENT OR ATTENUATION. FOR PROPOSED CONDITIONS, ON-SITE FLOWS ARE MANAGED IN ENCLOSED STORM DRAINS WHICH DISCHARGE DIRECT TO THE DRAINAGE CANAL SYSTEM OF THE ECWCD. PORTIONS OF THESE CANALS WILL BE MODIFIED WITH CONTROL STRUCTURES TO PROVIDE THE REQUIRED STORMWATER TREATMENT AND ATTENUATION. THE EXISTING DRAINAGE PATTERNS AND POINTS OF DISCHARGE INTO THE ORANGE CANAL WILL BE MAINTAINED FOR BOTH ON-SITE AND OFF-SITE FLOWS.

II. CONTROLS: EROSION AND SEDIMENT CONTROLS

A. WATER QUALITY MONITORING:

1 .WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIROMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTORS ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIROMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.

2. THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).

3. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIROMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).

4. WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

B. STABILIZATION PRACTICES

1. STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BEST MANAGEMENT PRACTICE (BMP'S) AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE TURF (SOD) OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).

2. STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.

3. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.

4. ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.

5. SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.

6. SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

C. STRUCTURAL PRACTICES INCLUDE:

1. SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

a) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.

b) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAMS AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.

c) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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EGILBERT

STORM WATER POLLUTION PREVENTION PLAN NOTES

SHEET NO. 221

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C. STRUCTURAL PRACTICES INCLUDE (CONT.):

2. FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

a) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.

b) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.

c) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5–5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION.

d) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.

e) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.

f) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS > 5.0'.

3. STAKED TURBIDITY BARRIER

PURPOSE: THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.

a) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.

b) MAXIMUM DEPTH OF PANEL IS 3'–8".

c) POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE EMBEDDED IN THE GROUND.

4. INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

a) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.

b) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON–GOING AND ONLY WHERE SUMP CONDITIONS EXIST.

c) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

5. SOIL TRACKING PREVENTION DEVICE

PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.

a) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.

b) USE ADDITIONAL DEVICES FOR CONSRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.

c) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.

d) CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL – N/A

III. OTHER CONTROLS:

A. WASTE DISPOSAL

1. THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.

2. ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

3. NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.

4. ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

B. OFF–SITE VEHICLE TRACKING – WILL BE CONTROLLED BY THE FOLLOWING METHODS:

1. LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.

2. EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

C. STATE AND FEDERAL REGULATIONS: PERMITS HAVE BEEN OBTAINED FROM THE FOLLOWING AGENCIES:

SWFWMD ENVIRONMENTAL RESOURCE PERMIT NO. 36-07214-P
USACE PERMIT NO. SAJ-2008-2811

PERMITS WILL BE REQUIRED BY THE CONTRACTOR FROM THE FOLLOWING AGENCY: FDEP NPDES PERMIT

D. NON–STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE THE COUNTY WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT COUNTY REPRESENTATIVE.

IV. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

A. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

B. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

C. SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

D. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

A. THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.

B. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE FDEP CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

C. THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

VI. TRACKING AND REPORTING:

A. THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

B. PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES.

C. THE CONTRACTOR SHALL USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

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DEPARTMENT
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EGILBERT

STORM WATER POLLUTION PREVENTION PLAN NOTES

SHEET NO. 222

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1. INLET PROTECTION SYSTEMS ARE TO BE USED TO CONTROL SILTATION AT ALL CURB INLETS, BSW INLETS AND DITCH BOTTOM INLETS.
2. REFER TO FDOT EROSION AND SEDIMENT CONTROL MANUAL FOR EROSION PROTECTION AROUND INLETS (EXISTING, PARTIAL, OR COMPLETED), DITCH BOTTOM INLETS, AND DITCHES (PAVED OR ROUGH GRADED).

INLET PROTECTION

STRUCTURE NUMBER	STATION - ℄	SIDE	EACH	REMARKS
106	526+45.90 - HOMESTEAD	LT	1	CURB INLET
107	525+50.00	RT	1	CURB INLET
108	529+45.00	LT	1	CURB INLET
109	529+45.00	RT	1	CURB INLET
110	530+80.00	LT	1	CURB INLET
111	530+80.00	RT	1	CURB INLET
112	533+00.00	LT	1	CURB INLET
113	533+00.00	RT	1	CURB INLET
115	536+20.00	LT	1	CURB INLET
116	536+20.00	RT	1	CURB INLET
117	539+00.00	LT	1	CURB INLET
118	539+00.00	RT	1	CURB INLET
119	543+00.00	LT	1	CURB INLET
120	543+00.00	RT	1	CURB INLET
121	544+50.00	LT	1	CURB INLET
122	544+50.00	RT	1	CURB INLET
123	549+50.00	LT	1	CURB INLET
124	549+50.00	RT	1	CURB INLET
126	556+50.00	LT	1	CURB INLET
127	556+50.00	RT	1	CURB INLET
129	562+00.00	LT	1	CURB INLET
130	562+00.00	RT	1	CURB INLET
131	564+50.00	LT	1	CURB INLET
132	564+50.00	RT	1	CURB INLET
133	9+28.31 - SUNRISE	LT/RT	1	14"x23" MES
134	10+69.31	LT	1	INLET C MOD BOSW
135	10+69.31	RT	1	C DBI
136	568+00.00	LT	1	CURB INLET
137	568+00.00	RT	1	CURB INLET
200	573+00.00	LT	1	CURB INLET
201	573+00.00	RT	1	CURB INLET
204	579+00.00	LT	1	CURB INLET
205	579+00.00	RT	1	CURB INLET
206	582+00.00	LT	1	CURB INLET
207	582+00.00	RT	1	CURB INLET
208	585+00.00	LT	1	CURB INLET
208A	586+00.00	RT	1	CURB INLET
210	588+62.26	LT	1	CURB INLET
211	588+62.26	RT	1	CURB INLET
213	594+20.00	LT	1	CURB INLET
		SUBTOTAL	40	

INLET PROTECTION

STRUCTURE NUMBER	STATION - ℄	SIDE	EACH	REMARKS
214	594+20.00	RT	1	CURB INLET
215	597+00.00	LT	1	CURB INLET
216	597+00.00	RT	1	CURB INLET
300	602+00.00	LT	1	CURB INLET
301	602+00.00	RT	1	CURB INLET
310	607+50.00	LT	1	CURB INLET
311	607+50.00	RT	1	CURB INLET
311A	609+00.00	RT	1	CURB INLET
312	612+20.00	LT	1	CURB INLET
313	612+20.00	RT	1	CURB INLET
314	612+96.00	LT	1	INLET C MOD BOSW
315	615+00.00	LT	1	CURB INLET
316	615+00.00	RT	1	CURB INLET
317	618+00.00	LT	1	CURB INLET
318	618+00.00	RT	1	CURB INLET
319	622+00.00	LT	1	CURB INLET
320	622+00.00	RT	1	CURB INLET
324	21+25.00 - LEELAND	LT	1	CURB INLET
325	21+25.00	RT	1	CURB INLET
327	22+89.92	LT	1	CURB INLET
401	16+28.24	LT	1	CURB INLET
402	16+13.00 - ALABAMA	RT	1	CURB INLET
403	17+20.00	LT	1	INLET C MOD BOSW
405	18+97.60	LT	1	INLET C MOD BOSW
406	18+97.60	RT	1	CURB INLET
407	626+40.00 - HOMESTEAD	LT	1	INLET C MOD BOSW
408	626+40.00	RT	1	CURB INLET
410	628+00.00	LT	1	CURB INLET
411	628+00.00	RT	1	CURB INLET
413	629+00.00	RT	1	INLET C MOD BOSW
414	630+40.00	LT	1	INLET C MOD BOSW
415	631+20.00	RT	1	INLET C MOD BOSW
		SUBTOTAL	32	
		TOTAL	72	

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DEPARTMENT
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TRANSPORTATION
FORT MYERS, FLORIDA 33901

EGILBERT

EROSION CONTROL PLAN
SUMMARY TABLES

SHEET NO. 223

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SUMMARY OF SEDIMENT BARRIER

LOCATION	SIDE	LENGTH (FT)		REMARKS
STA. TO STA.		P	F	
509+40 TO 521+40	RT	1220		2- DRIVES
513+40 TO 521+40	LT	790		1- DRIVE
521+40 TO 535+00	LT	1228		7- DRIVES
521+40 TO 535+00	RT	1324		3- DRIVES
535+00 TO 549+00	LT	1321		1- DRIVE, SUNSHINE BLVD
535+00 TO 549+00	RT	1345		SUNSHINE BLVD
549+00 TO 563+00	LT	1328		3- DRIVES
549+00 TO 563+00	RT	1428		2- DRIVES
563+00 TO 577+00	LT	1304		2- DRIVES, CALOOSA LAKES
563+00 TO 577+00	RT	1340		1- DRIVE, CALOOSA LAKES
577+00 TO 591+00	LT	1376		1- DRIVE
577+00 TO 591+00	RT	1352		VETERANS PARK DR
591+00 TO 605+00	LT	1300		2-CANALS, PINEWOOD, ANDROS
591+00 TO 605+00	RT	1142		9- DRIVES, 2-CANALS
605+00 TO 619+40	LT	1100		4- DRIVES, 1-CANAL, 2-ROADS
605+00 TO 619+40	RT	1095		6- DRIVES, ARTHUR, ADAMS
619+40 TO 632+96	LT	972		5- DRIVES, 2-ROADS
619+40 TO 632+96	RT	1280		2- DRIVES, 3-ROADS
8+06 TO 11+40	LT/RT	380		CALOOSA TO VETERANS PARK
8+88 TO 11+13	LT/RT	260		ARTHUR AVE.
8+44 TO 11+60	LT/RT	285		ADAMS AVE.
13+37 TO 20+00	LT/RT	1120		ALABAMA ROAD
20+00 TO 26+66	LT/RT	1245		LEELAND HEIGHTS BLVD.
5+50 TO 20+00	LT/RT	2795		LIVEOAK CANAL
	TOTAL	26,990		

SUMMARY OF TURBIDITY BARRIER

LOCATION	SIDE	LENGTH (FT)		REMARKS
STA. TO STA.		P	F	
591+10 TO 591+40	LT	62		STAKED
592+50 TO 593+00	RT	45		STAKED
602+90 TO 603+45	LT	65		STAKED
603+00 TO 603+55	RT	52		STAKED
606+40 TO 606+60	LT	55		STAKED
	TOTAL	279		

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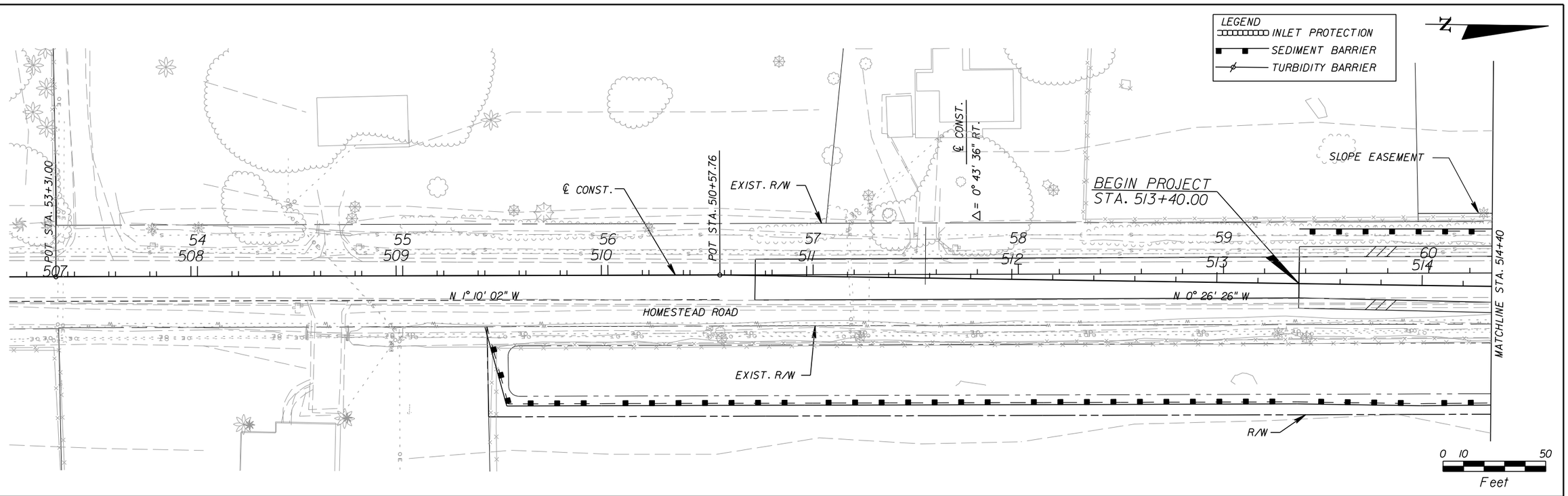
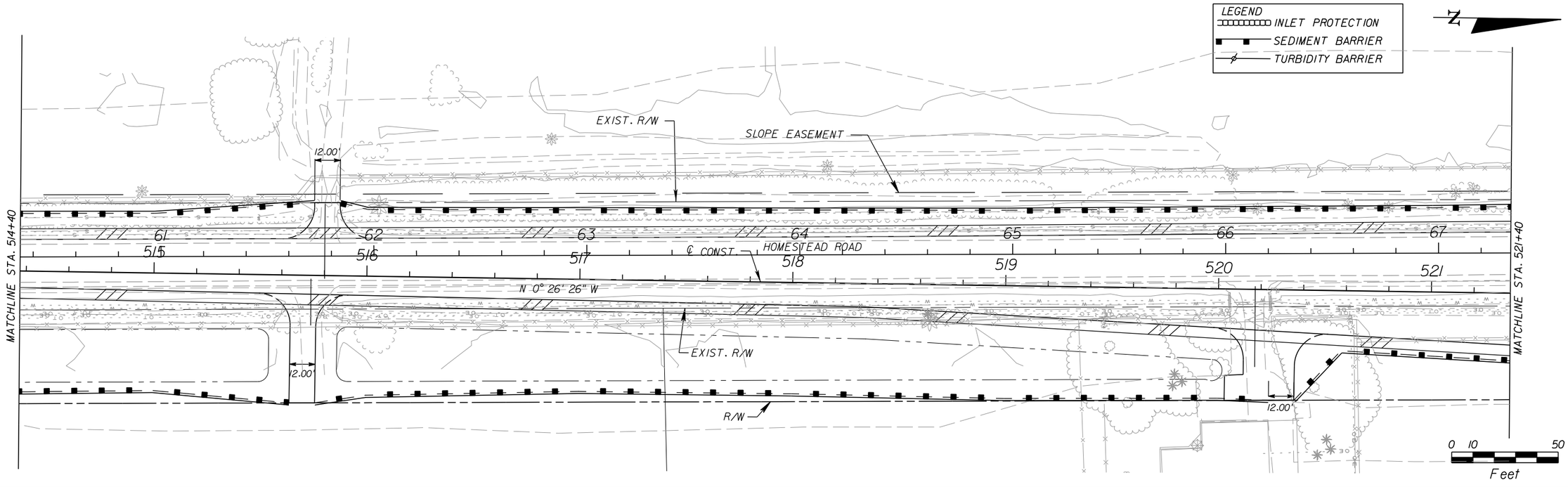
FORT MYERS, FLORIDA 33901

EROSION CONTROL PLAN
SUMMARY TABLES

SHEET NO.
224





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DEPARTMENT
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EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 507+00 TO STA. 521+40

SHEET NO. 225

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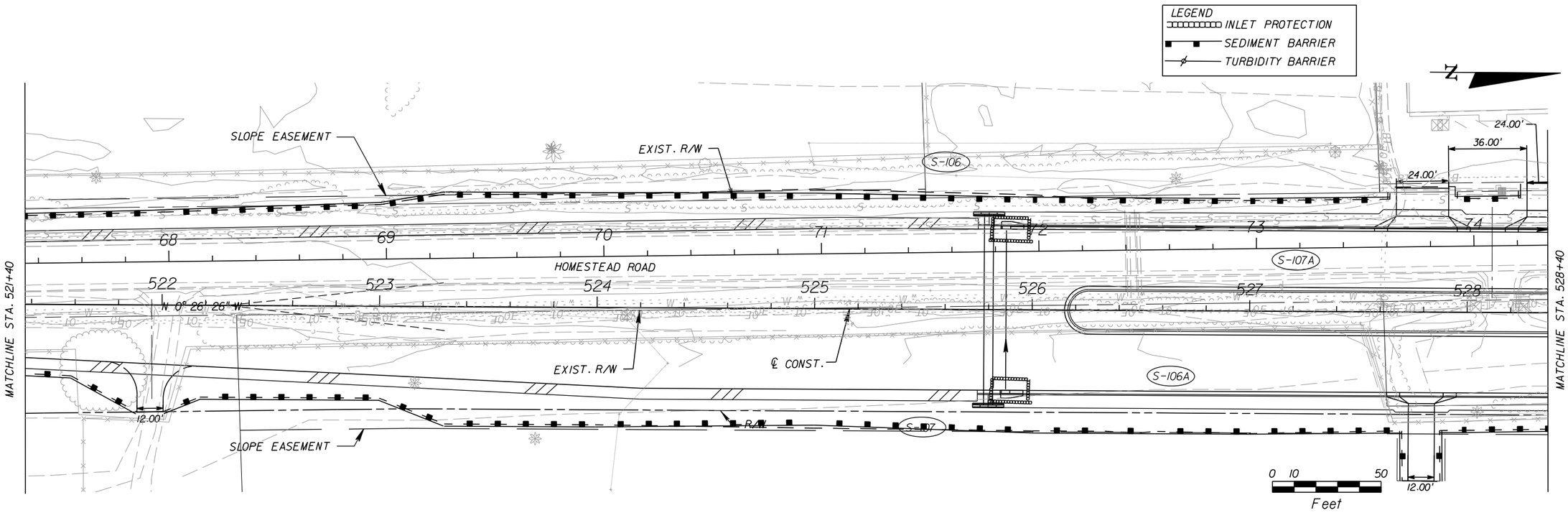

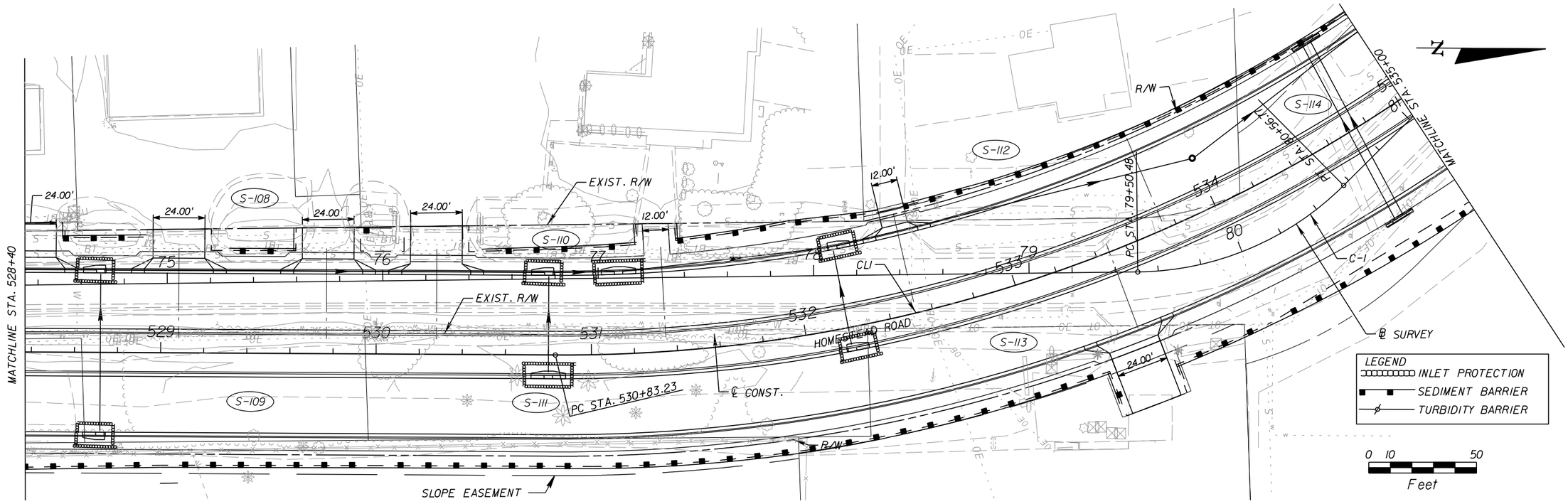

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EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 521+40 TO STA. 535+00

SHEET NO. 226

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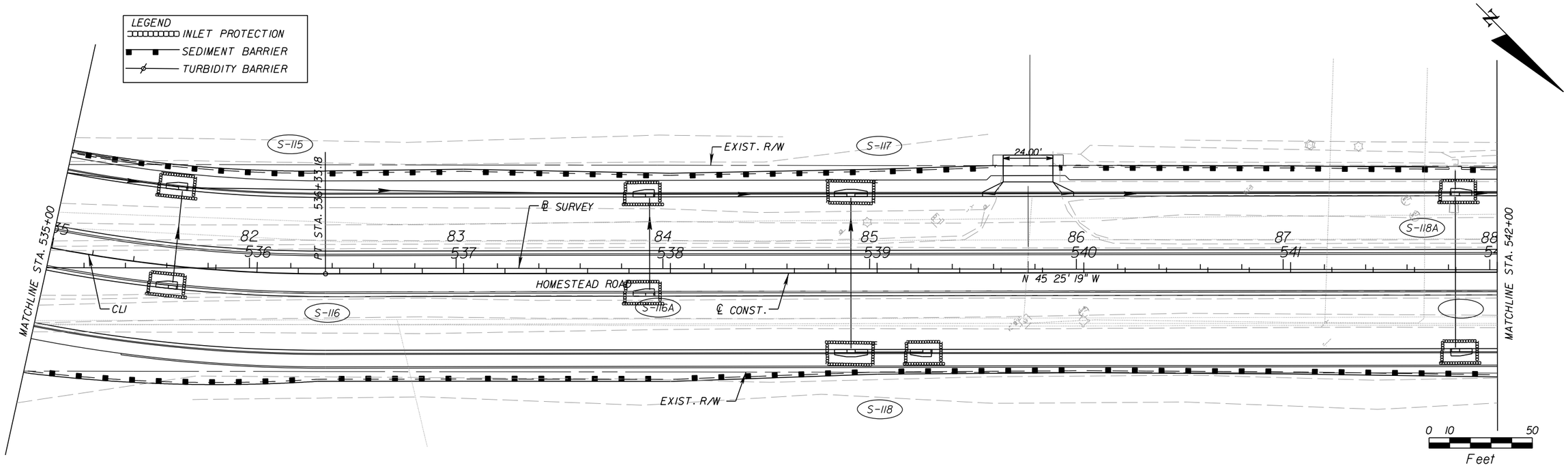

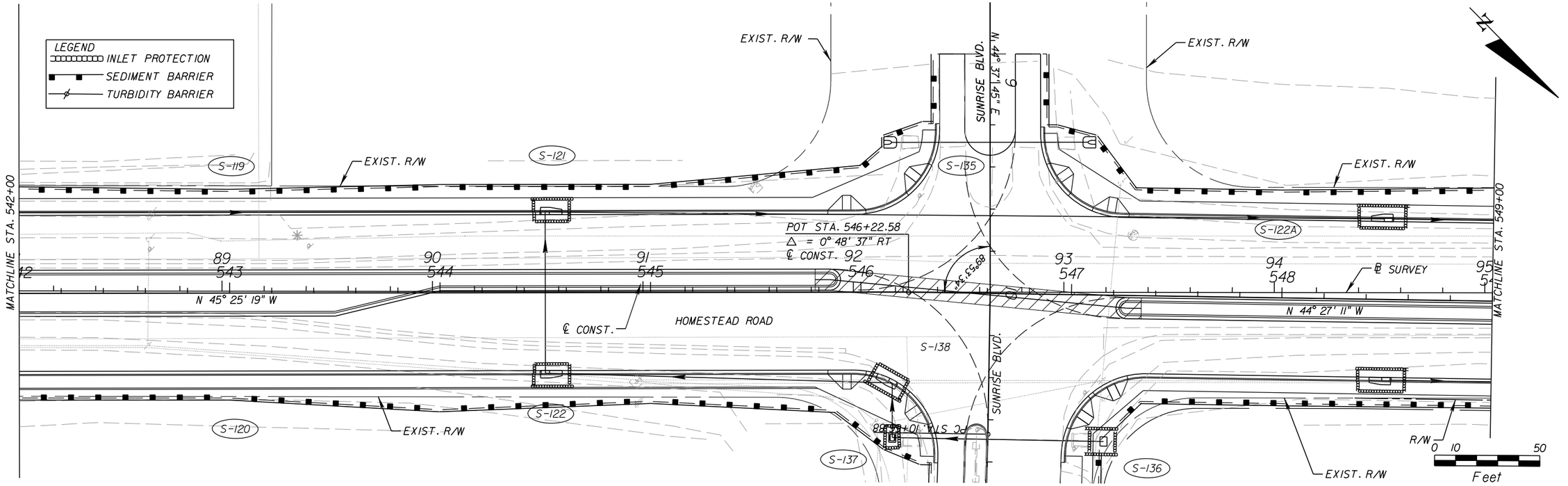

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EROSION CONTROL SHEETS HOMESTEAD ROAD

STA. 535+00 TO STA. 549+00

SHEET NO. 227

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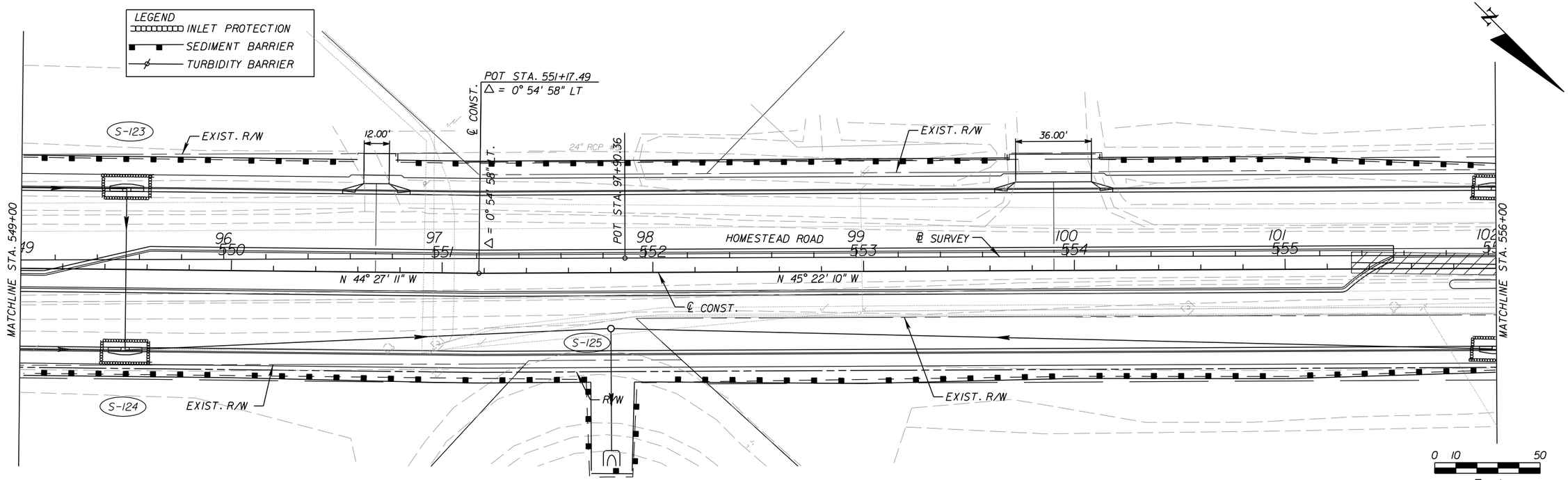

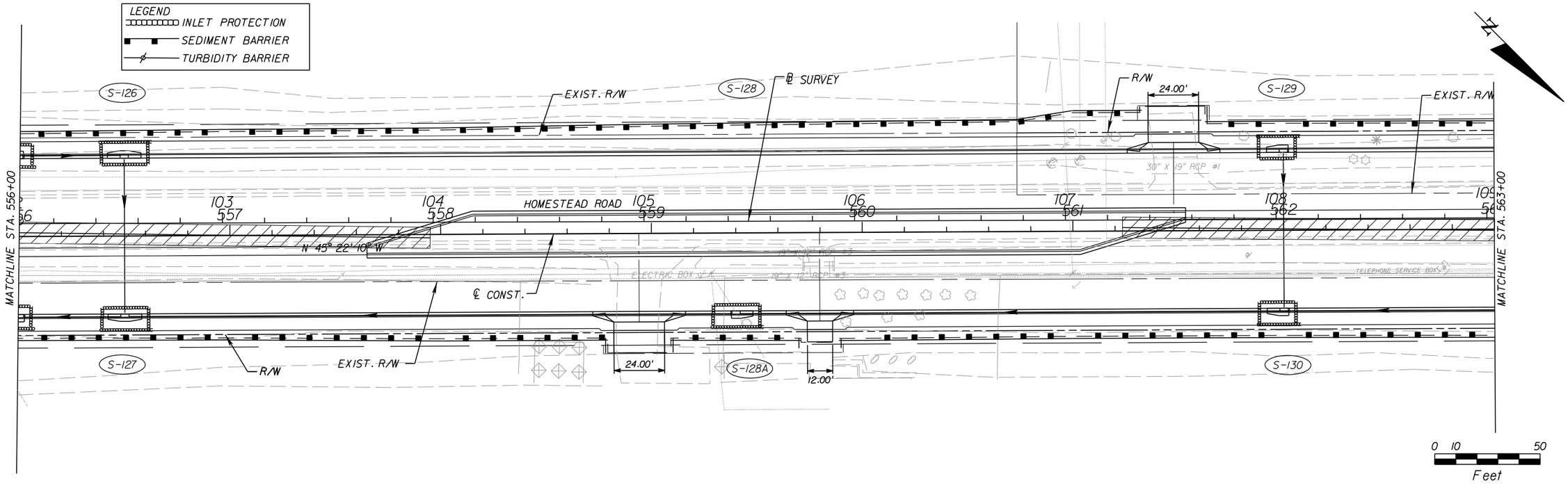

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DEPARTMENT of TRANSPORTATION

EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 549+00 TO STA. 563+00

SHEET NO. 228

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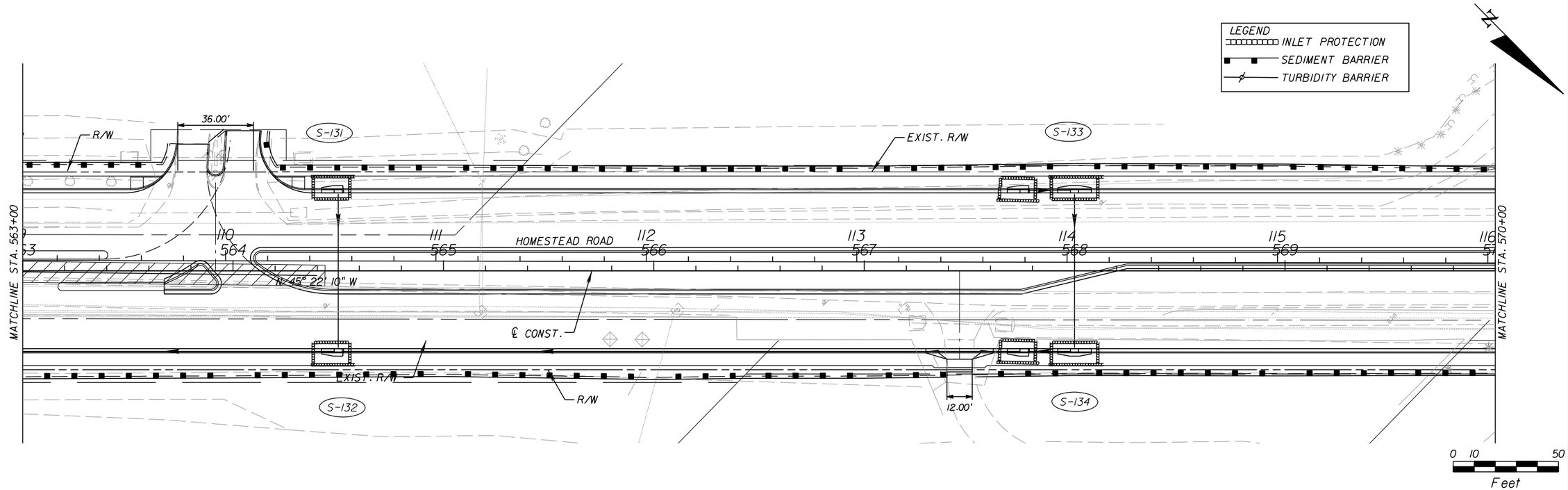

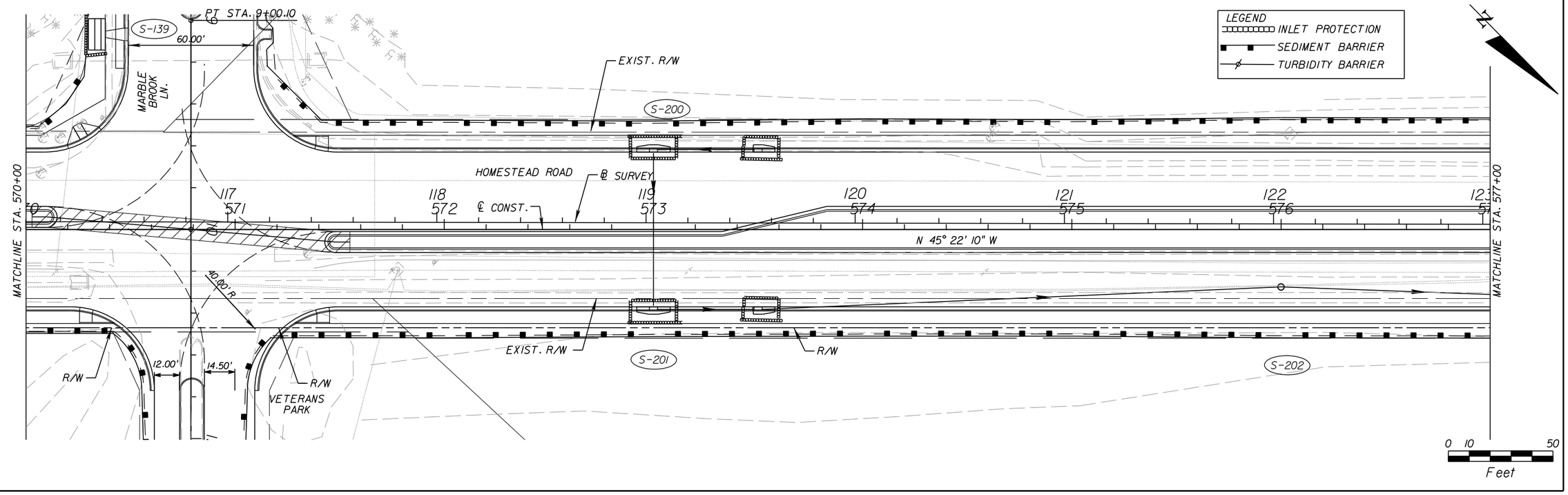

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1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotlitte.htm

DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 563+00 TO STA. 577+00

SHEET NO. 229

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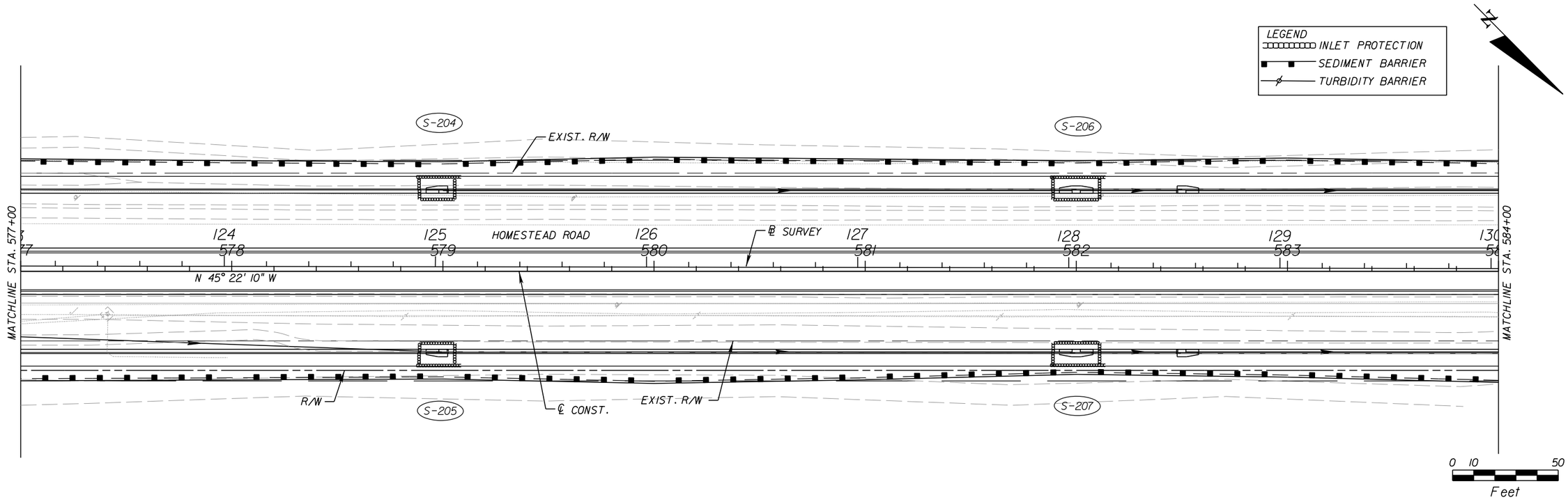

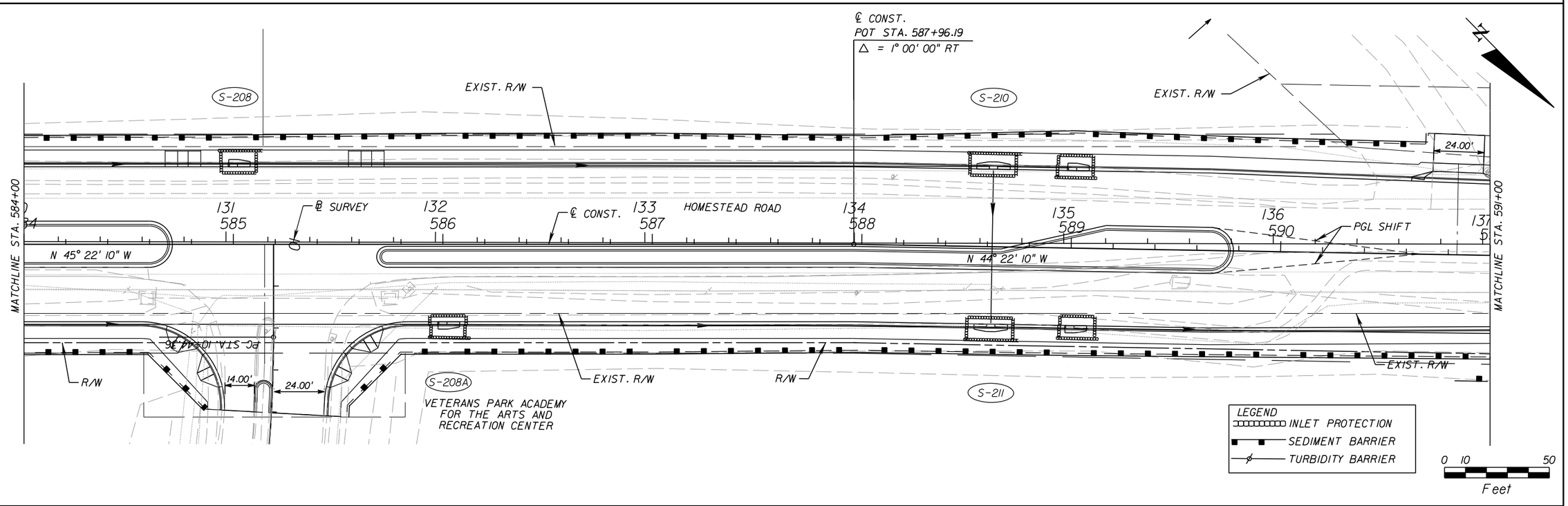

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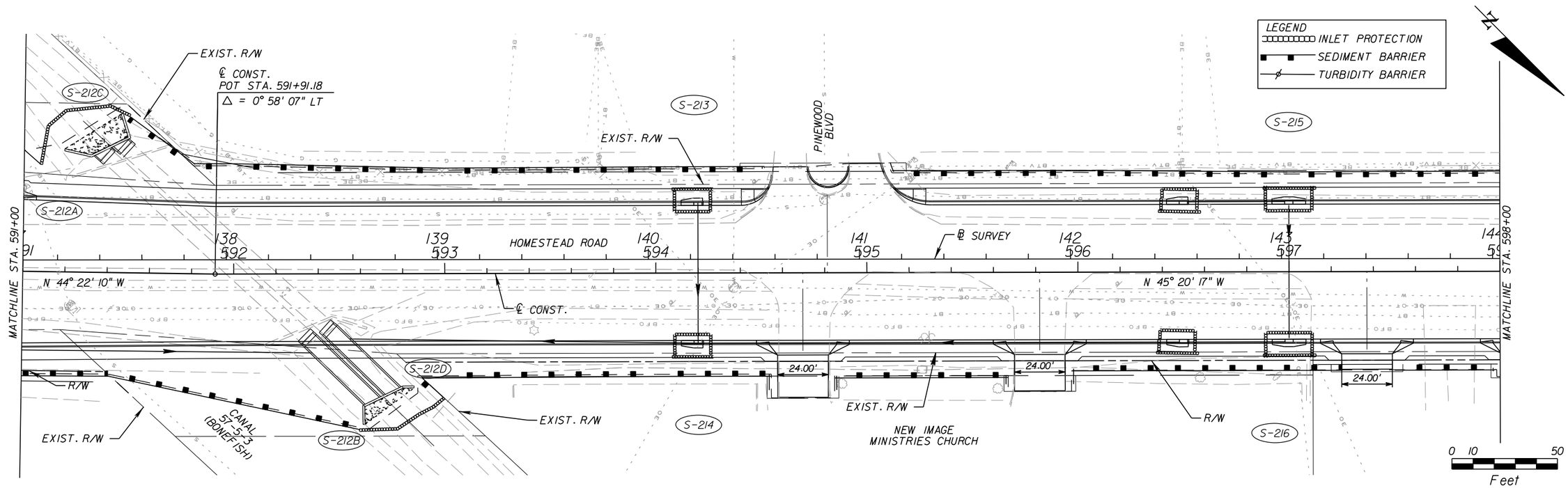
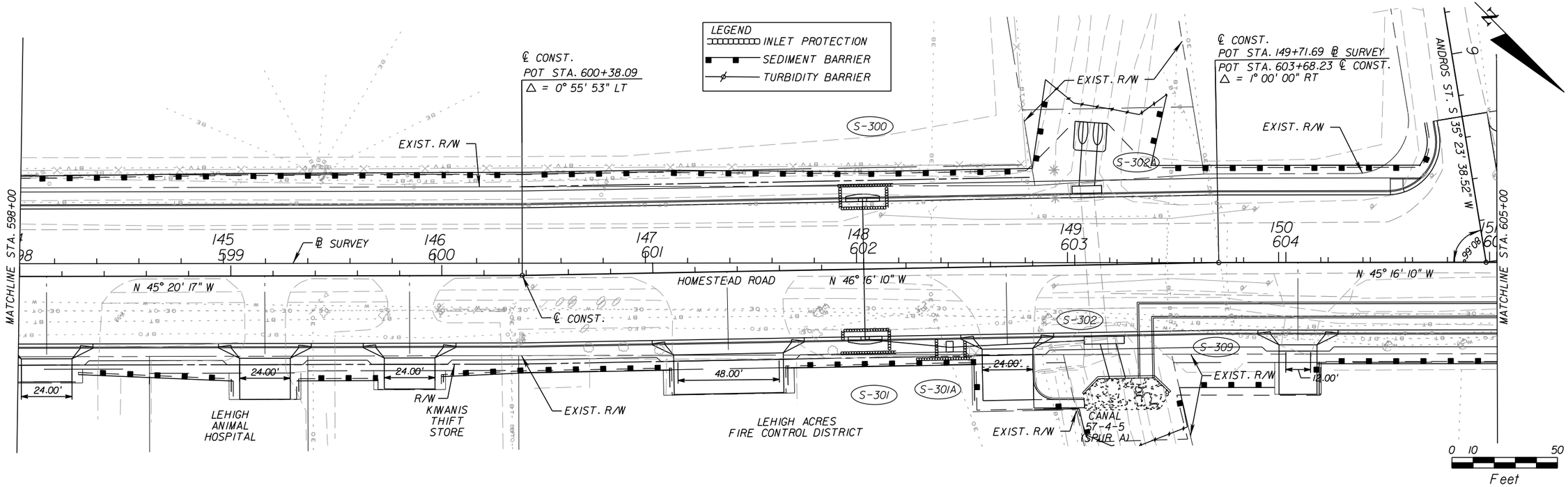
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 577+00 TO STA. 591+00

SHEET NO. 230





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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 591+00 TO STA. 605+00

SHEET NO. 231

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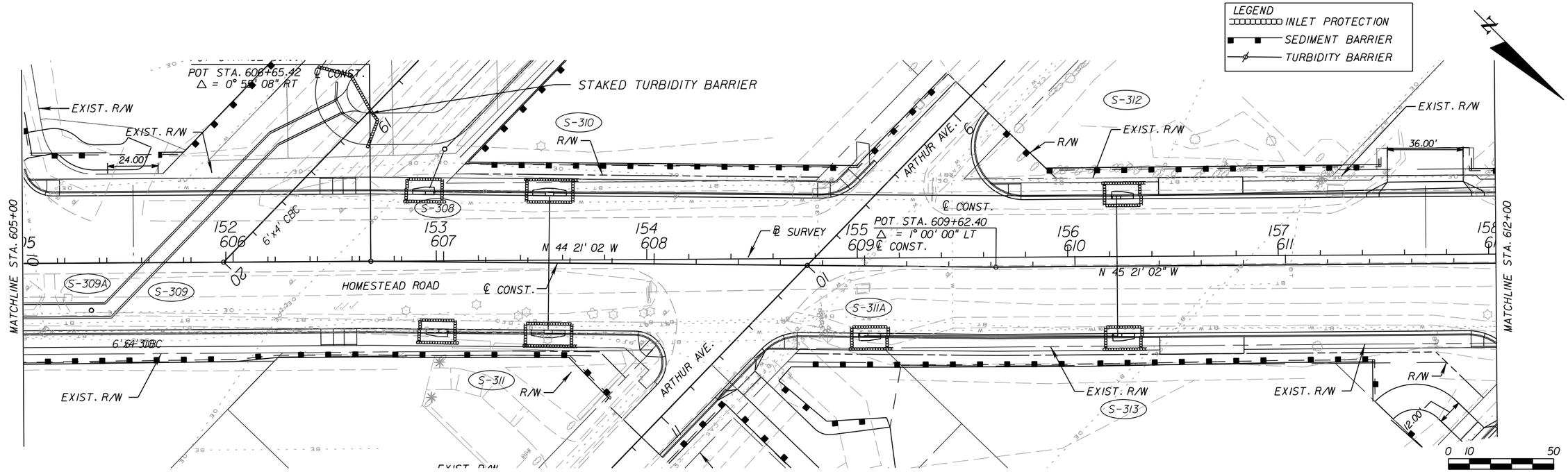

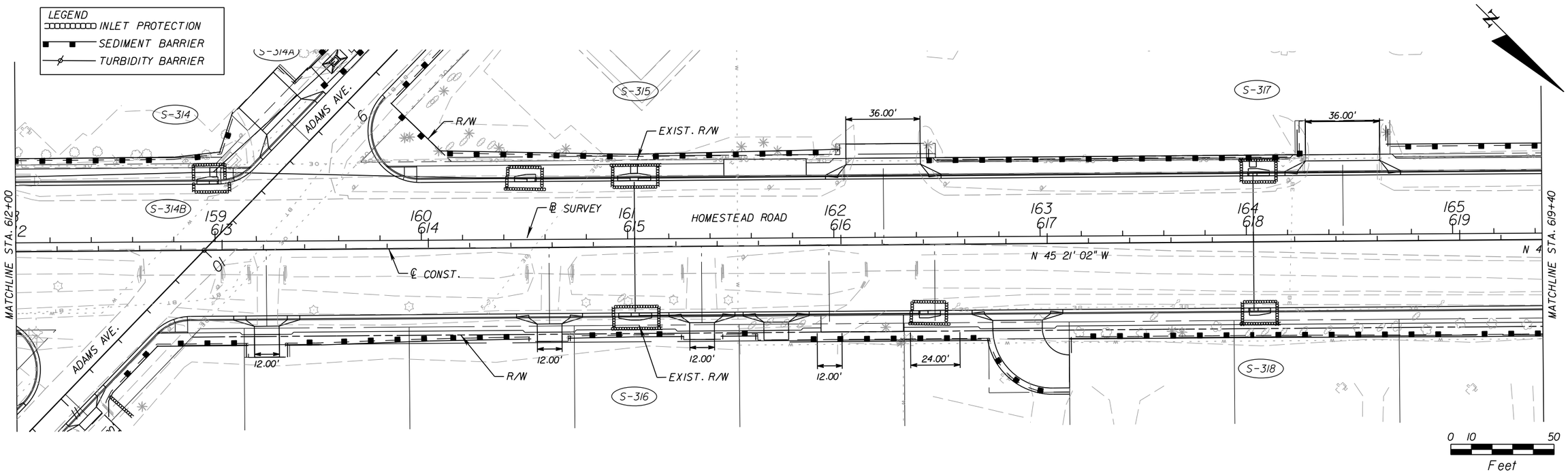

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DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 605+00 TO STA. 619+40

SHEET NO. 232

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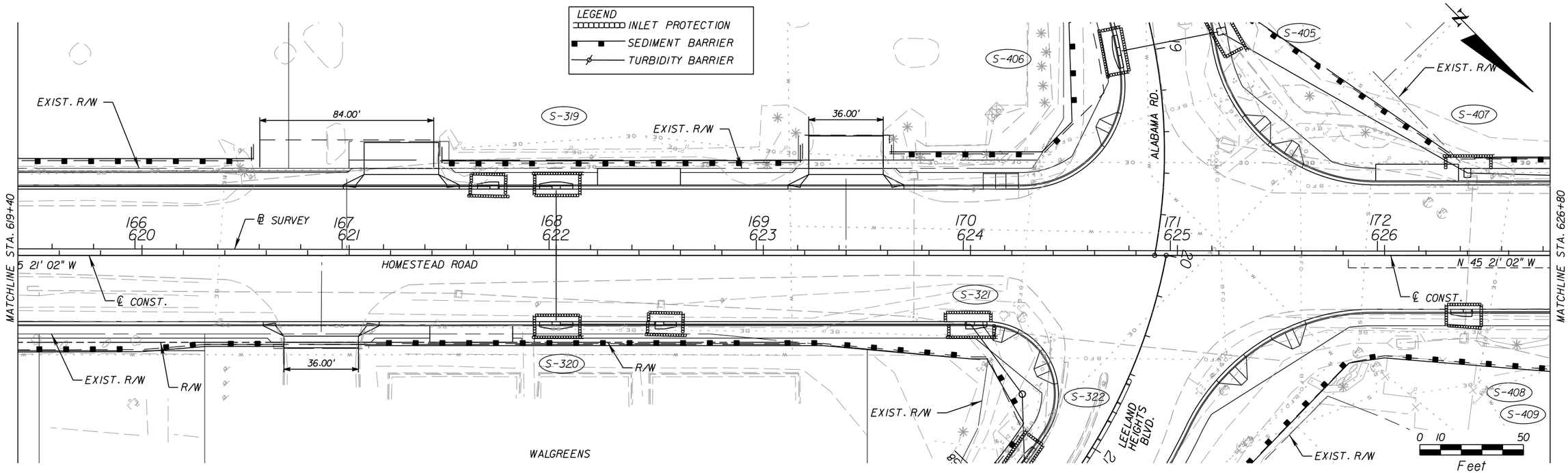

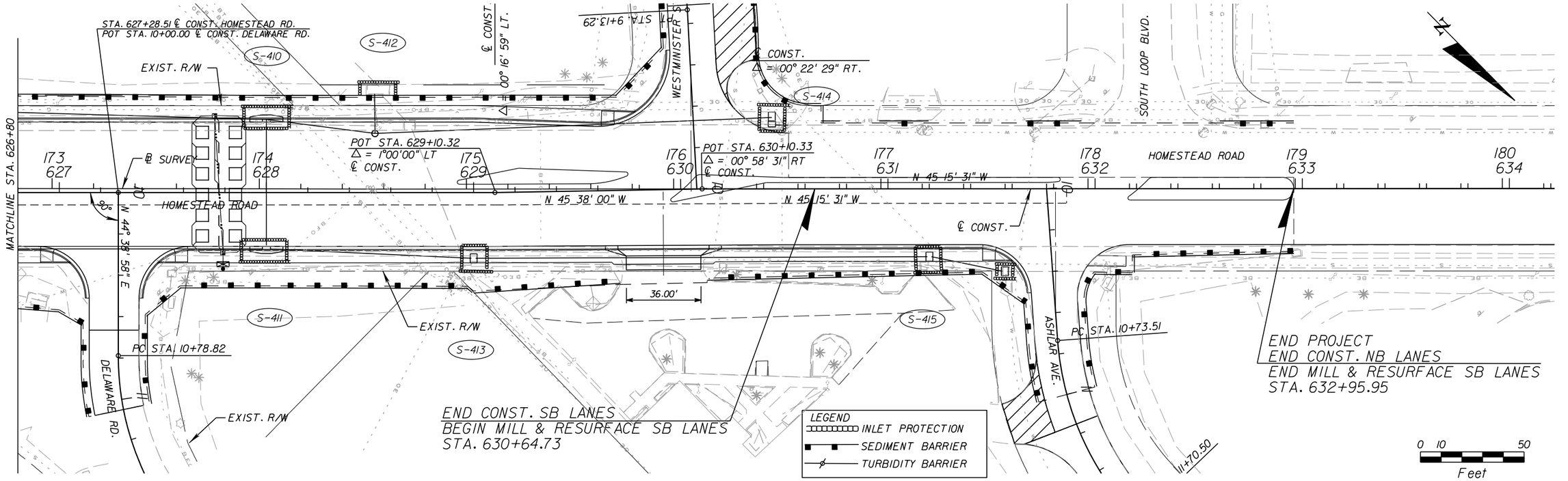

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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

EROSION CONTROL SHEETS
HOMESTEAD ROAD

STA. 619+40 TO STA. 6324+95.95

SHEET NO. 233

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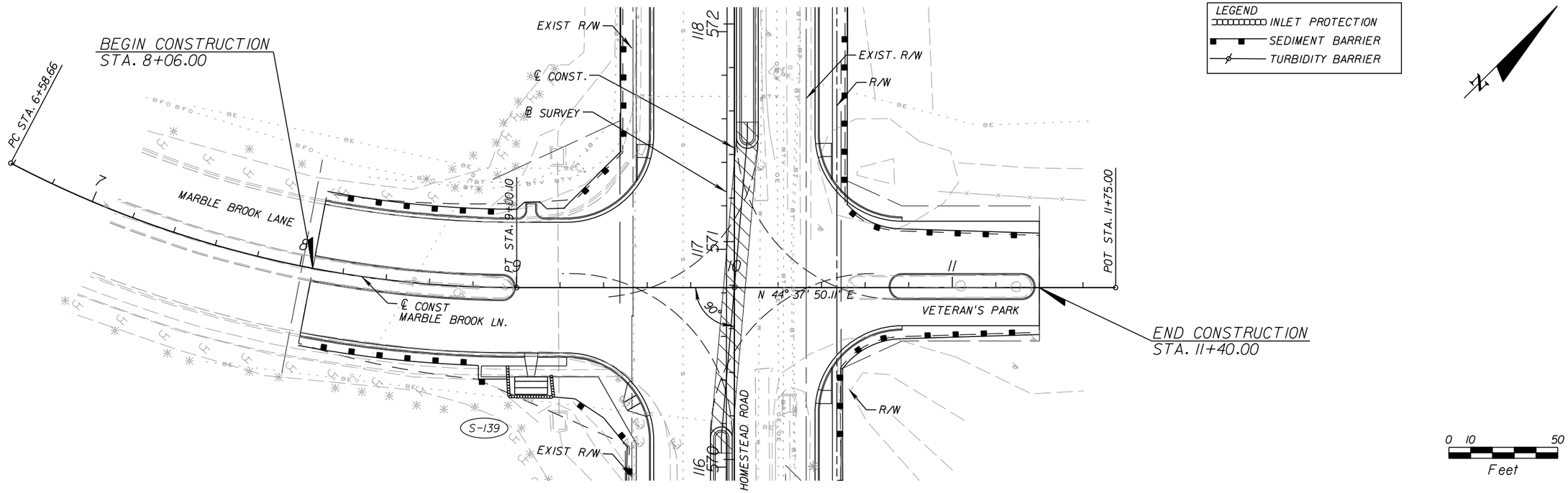

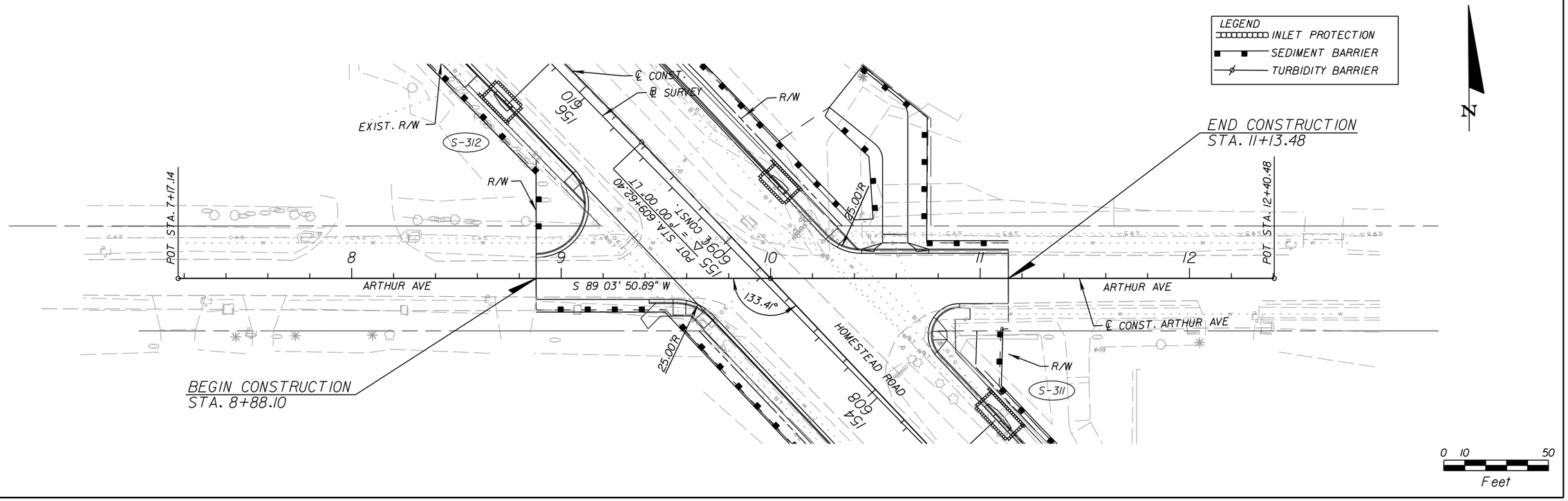

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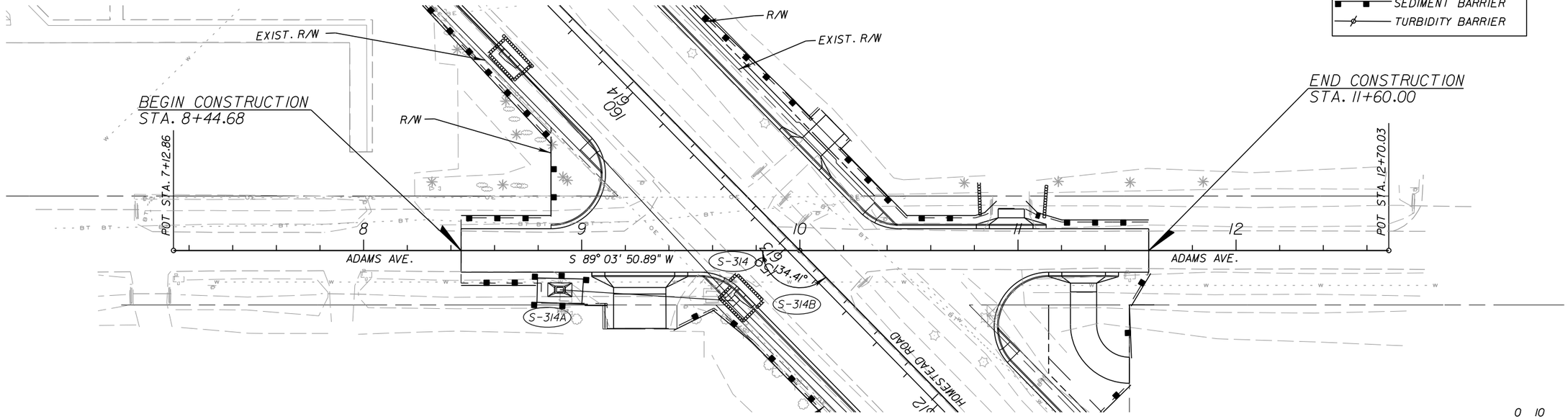
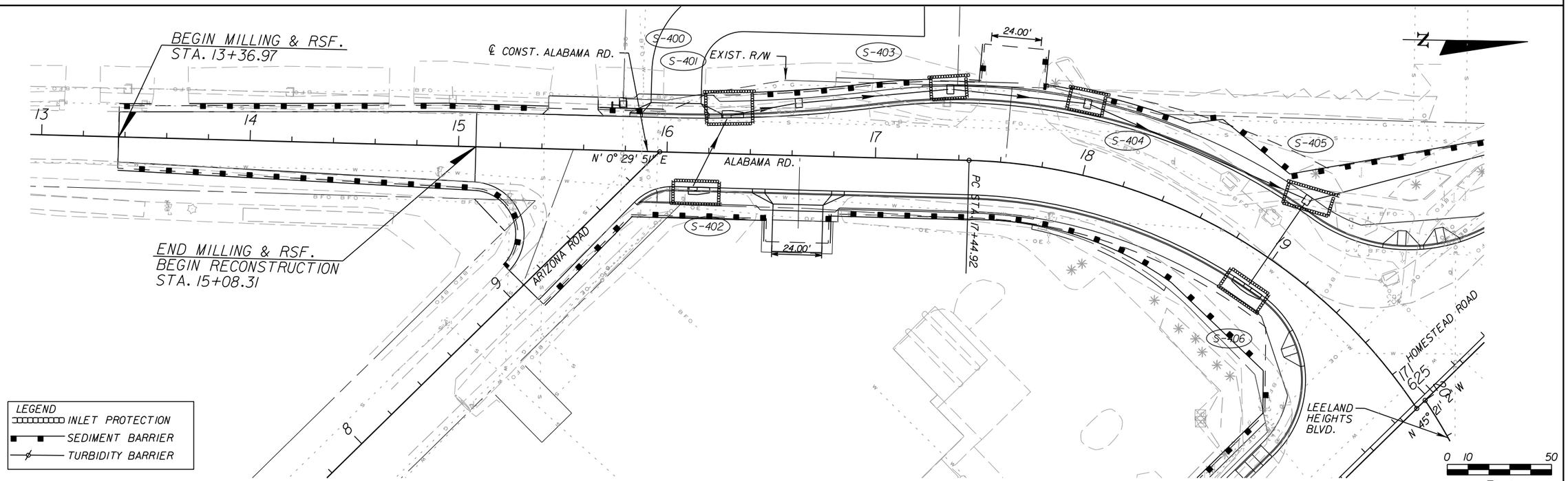
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION

EROSION CONTROL SHEET
MARBLE BROOK LN. & ARTHUR AVE.
STA. 8+06.00 TO STA. 11+40.00
STA. 8+88.10 TO STA 11+13.48

SHEET NO. 234

ASTEVANU 9/19/2016 PW:\202116\0020220055\13.00_CAD\Homestead\roadway\swpprd11.dgn





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1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

EROSION CONTROL SHEETS
ADAMS AVE. & ALABAMA RD.
STA. 8+44.68 TO STA. 11+60.00
STA. 13+36.97 TO STA. 20+00.00

SHEET NO. 235

ASTEVANU 9/19/2016 PW:\202116\0020033055\13.00_CAD\Homestead\roadway\swpprd12.dgn

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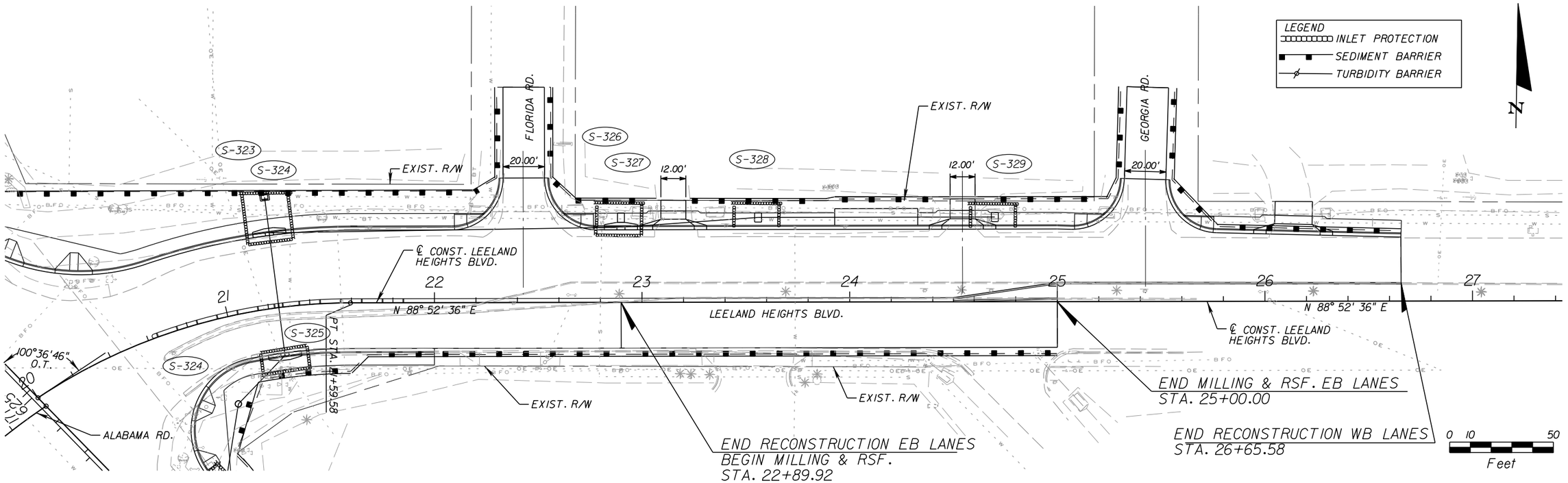

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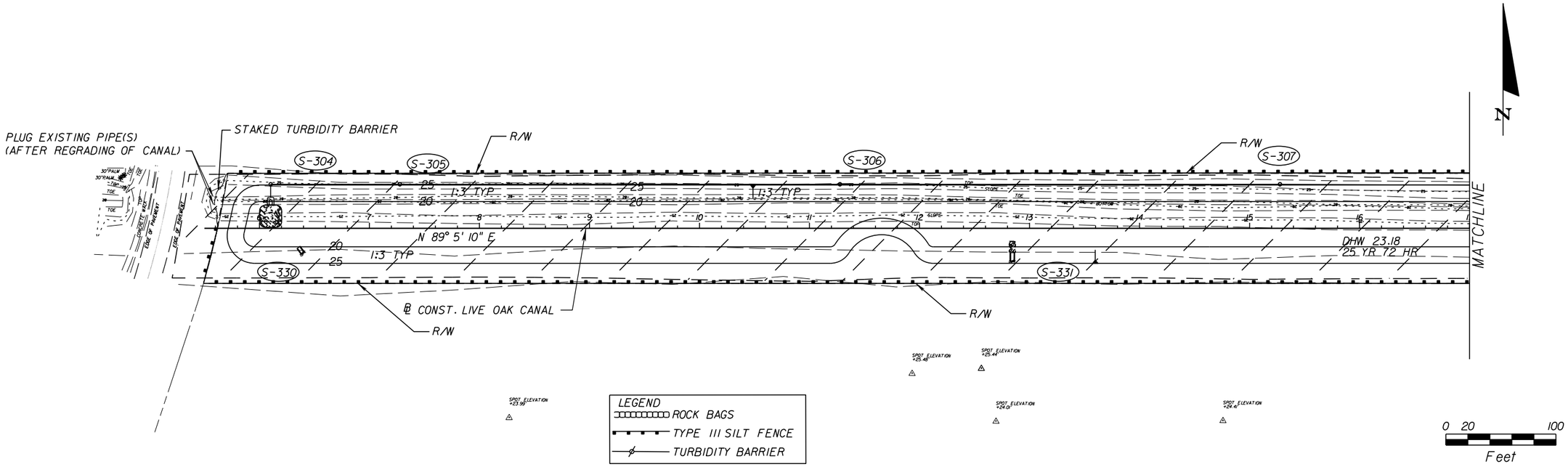
FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

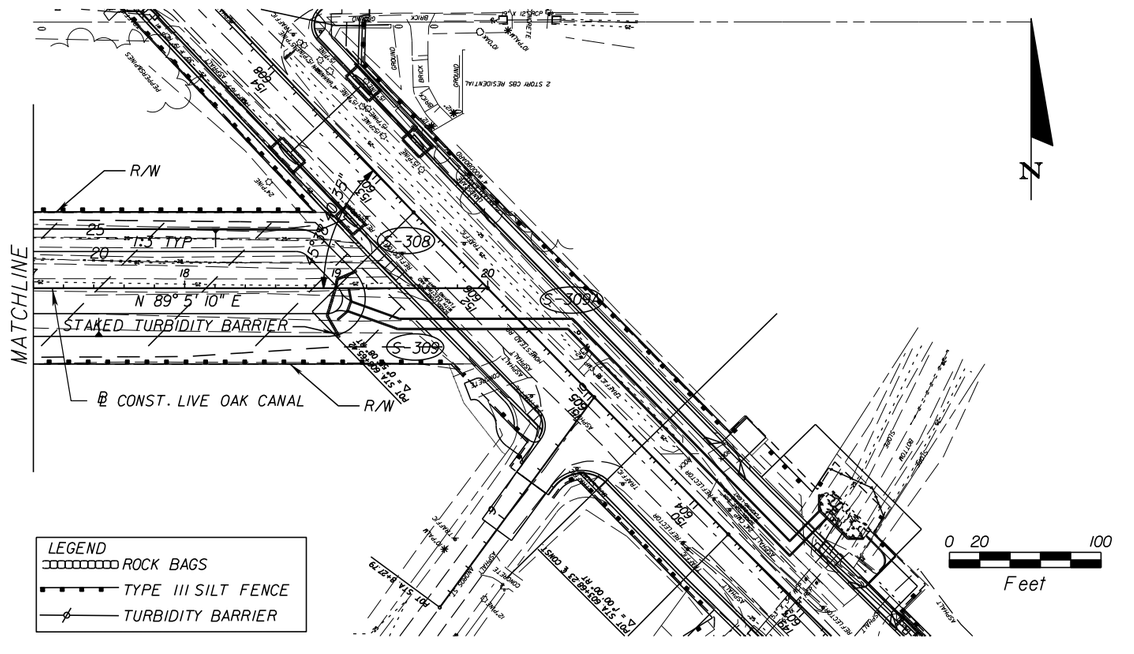
DEPARTMENT
of
TRANSPORTATION

EROSION CONTROL SHEETS
LEELAND HEIGHTS BLVD.
STA. 20+00.00 TO STA. 26+65.58

SHEET NO.
236

ASTEVANU 9/19/2016 PW:\202116\0020130055\13.00_CAD\Homestead\roadway\swpprd13.dgn





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PUBLIC WORKS
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1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

EROSION CONTROL SHEETS
LIVE OAK CANAL

SHEET NO. 237

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GENERAL NOTES:

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND FDOT DESIGN STANDARDS (FY 2016-17).

2. ITEM NO. 102-1 MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS (July 2016).

3. SPEED LIMIT THROUGH THE WORK ZONE SHALL BE POSTED AT 45 MPH.

4. TRAFFIC CONDITIONS, ACCIDENTS, SCHOOL FUNCTIONS, AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE LEE COUNTY DEPARTMENT OF TRANSPORTATION TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION WITHOUT DELAY UNDER THESE CONDITIONS. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR MAINTENANCE OF TRAFFIC (102-1).

5. THE CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH THE REQUIREMENTS FOR PERMANENT PAVEMENT MARKINGS AS SHOWN ON THE PLANS AND ON THE INDEXES 17346 AND 17352. SOLID LANE LINES SHALL BE PROVIDED ON ALL LANE SHIFTS, TAPERS, AND TRANSITIONS WHERE THE LATERAL SHIFT, TAPER OR TRANSITION DISTANCE IS GREATER THAN TWO FEET.

6 TEMPORARY RPM'S SHALL BE INSTALLED IN ACCORDANCE WITH INDEX NUMBERS 600 AND 17352, AND AS OUTLINED IN THE SPECIFICATIONS AND AS SHOWN IN THE PLANS. RPM'S SHALL BE INSTALLED ON ALL TEMPORARY LANE LINES AND EDGE LINES AT 20' CENTERS IN ALL TRANSITIONS AND 150' BEYOND EACH TRANSITION. RPM'S SHALL BE INSTALLED AT 40' CENTERS ON ALL LANE LINES IN AREAS TANGENT TO CONSTRUCTION.

7. ALL PAVEMENT MARKINGS, EXISTING AND TEMPORARY, SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS NOTED OTHERWISE. PERIODIC REPLACEMENT OF TEMPORARY PAVEMENT MARKINGS AT APPROXIMATELY SIX MONTH INTERVALS OR AS DIRECTED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION WILL BE REQUIRED.

8. CONFLICTING EXISTING PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING OR BY OTHER METHODS APPROVED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION. ALL EXISTING PAVEMENT MARKINGS, OUTSIDE THE LIMITS OF CONSTRUCTION, WHICH ARE ALTERED, SHALL BE REPLACED UPON COMPLETION OF THE PROJECT. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR MAINTENANCE OF TRAFFIC (102-1).

9. THE CONTRACTOR SHALL CONFIRM THAT EXISTING SIGNAGE AND PAVEMENT MARKINGS WILL NOT POSE A CONFLICT FOR WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL COVER OR REMOVE ALL SIGNING IN CONFLICT WITH TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.

10. ALL TRAFFIC CONTROL DEVICES WILL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE PROPERLY MAINTAINED AND OPERATED THROUGHOUT THE PERIOD OF CONSTRUCTION.

11. TEMPORARY TRAVEL LANES SHALL BE A MINIMUM WIDTH OF 11' UNLESS OTHERWISE SHOWN IN THE TRAFFIC CONTROL PLANS OR DIRECTED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION.

12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CLEAR ZONE REQUIREMENTS FOR EQUIPMENT AND MATERIAL STORAGE AND WORK ZONE PROTECTION AS SPECIFIED IN FDOT INDEX NO. 600.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF TRAFFIC PHASING AND CONSTRUCTION WITH ANY ADJACENT CONTRACTS TO MAINTAIN SAFE TRAFFIC CONDITIONS.

14. ARROWS SHOWN ON PLANS INDICATE DIRECTION OF TRAFFIC. THEY DO NOT REPRESENT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.

15. ALL TEMPORARY PAVEMENT DESIGN WILL BE PROVIDED BY THE CONTRACTOR. THE DESIGN MUST BE APPROVED BY THE ENGINEER BEFORE BEING USED.

16. ALL PROPOSED UNDERGROUND APPURTENANCES WILL BE COMPLETED AND IN PLACE PRIOR TO CONSTRUCTION OF PERMANENT PAVEMENTS. MAINTAIN AT LEAST ONE LANE, TWO WAY OPERATIONS AT ALL TIMES THROUGH USE OF FLAGGERS PER INDEX 603.

GENERAL NOTES (CONT.):

17. BARRICADES, CONES AND DRUMS SHALL NOT BE INTERMIXED IN LATERAL TRANSITION.

18. TRAFFIC CONTROL FOR SIDE STREET INTERSECTIONS SHALL BE IN ACCORDANCE WITH INDEX NO. 620 OR 621. AS APPLICABLE, LANE CLOSURE SHALL BE LIMITED TO ONE LANE, AND AT ALL TIMES, AS A MINIMUM, ONE-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS. STREET NAME SIGNS, STOP SIGNS, AND STOP BARS SHALL BE RELOCATED AS NECESSARY AND MAINTAINED BY THE CONTRACTOR UNTIL WORK IS ACCEPTED.

19. CONTRACTOR SHALL NOT COMMENCE WORK IN A ZONE THAT REQUIRES A PERMANENT LANE CLOSURE UNTIL FULL TWO-WAY TRAFFIC IS RE-ESTABLISHED IN THE PREVIOUS ZONE.

20. FROM BEGIN PROJECT TO END PROJECT:
NO LANE CLOSURES 7:00 AM TO 9:00 AM, AND 4:00 PM TO 6:00 PM
A LANE MAY BE CLOSED ONLY DURING ACTIVE WORK PERIODS.

21. ONCE THE TRAFFIC PATTERN IS ESTABLISHED FOR A PHASE, THERE SHOULD BE NO CHANGE UNTIL ALL OF THE KEY ELEMENTS OF THE FOLLOWING PHASE ARE ESTABLISHED. THESE INCLUDE INSTALLATION (AND COVERING) OF NEW SIGNS AS WELL AS THE REQUIRED SAFETY DEVICES.

22. CONSTRUCT ALL PHASES UP, THROUGH AND INCLUDING THE STRUCTURAL COURSE OF ASPHALT. UPON COMPLETION OF EACH PHASE TO THAT POINT, PLACE STRIPING IN ITS PERMANENT LOCATION WITH PAINT. TEMPORARY STRIPING SHALL BE PLACED AS NEEDED TO ENSURE PROPER LANE DELINEATIONS AT ALL TIMES.

23. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF BUSINESS ENTRANCE SIGNS (FTP-59) AT ALL COMMERCIAL LOCATIONS DURING CONSTRUCTION.

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF BUSINESS SIGNS AT THE BEGINNING OF EACH PHASE ZONE TO STATE THAT THE BUSINESS IS OPEN. THE CONTRACTOR TO COORDINATE WITH BUSINESS OWNER AND LEE COUNTY DEPARTMENT OF TRANSPORTATION ON SIZE AND LOCATION OF SIGN.

25. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

26. ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.

27. CONSTRUCT DRIVEWAY TURNOUTS IN ACCORDANCE TO STANDARD INDEX NO. 515, MAINTAIN ACCESS TO DRIVEWAYS BY LIMITING CONSTRUCTION TO HALF A TURNOUT AT A TIME.

28. RIGHT OF ENTRY FOR ANY CONSTRUCTION, INCLUDING DRIVEWAY AND SIDEWALK CONSTRUCTION, TO BE COORDINATED BY CONTRACTOR WITH THE PROPERTY OWNER PRIOR TO CONSTRUCTION.

29. THE CONTRACTOR SHALL ENSURE THAT ALL VERTICAL AND LATERAL TRANSITIONS BETWEEN THE CONSTRUCTION ZONES AND/OR PHASES BE PER FDOT INDEX SERIES 600.

30. ALL SIGNALIZED INTERSECTIONS WITH CURRENT VEHICLE ACTUATION SHALL REMAIN ACTUATED DURING EACH TRAFFIC CONTROL PHASE. THE CONTRACTOR SHALL ADJUST THE SIGNAL HEADS AND MICROWAVE VEHICLE DETECTORS DURING EACH TRAFFIC CONTROL PHASE TO MEET REQUIREMENTS OF THE MUTCD, LATEST EDITION. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR MAINTENANCE OF TRAFFIC (102-1)

31. THE CONTRACTOR SHALL MAINTAIN EXISTING FLASHING SCHOOL ZONE BEACONS DURING ALL TRAFFIC CONTROL PHASES.

32. ALL MILLED AREAS WILL BE COVERED WITH TYPE S-1 THE SAME DAY THAT MILLING OCCURS AND BEFORE TRAFFIC IS ALLOWED BACK ON THE MILLED SURFACE. CONTRACTOR SHALL LIMIT THE LENGTH OF MILLING OPERATION TO ASSURE THAT TRAFFIC IS NOT PLACED ON ANY ASPHALT MILLED SURFACE.

33. ALL EROSION CONTROL FENCES AND BARRIERS SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, MAINTAINED DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING.

GENERAL NOTES (CONT.):

34. LEE COUNTY DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIALS DELIVERED TO THE PROJECT AND REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS.

35. CHANGES TO THE TRAFFIC CONTROL PLAN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. TRAFFIC CONTROL PLANS MUST BE APPROVED BY THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PRIOR TO IMPLEMENTATION.

36. THE CONTRACTOR SHALL HAVE A WORK SITE TRAFFIC SUPERVISOR ON THE PROJECT AT ALL TIMES WORK IS BEING DONE. HE/SHE SHALL BE ON CALL AT ALL OTHER TIMES AND SHALL BE ON THE PROJECT SITE WITHIN 45 MINUTES OF RECEIVING AN EMERGENCY CALL. HE/SHE SHALL PERFORM DUTIES PER SECTIONS 102 AND 105 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES.

HOMESTEAD PHASES:

PHASE 1:

CONSTRUCT ANY TEMPORARY PAVEMENT NEEDED TO PROVIDE LANE CONFIGURATIONS SHOWN FOR EACH SUBSEQUENT PHASE.

PHASE 2:

MAINTAIN TWO-WAY TRAFFIC ON EXISTING PAVEMENT AND TEMPORARY PAVEMENT INSTALLED IN PHASE 1. CONSTRUCT A MINIMUM OF 26' OF NEW PAVEMENT ALONG THE EAST SIDE (RIGHT OF CENTERLINE).

PHASE 3:

SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED PAVEMENT AND CONSTRUCT A MINIMUM OF 26' OF NEW PAVEMENT ALONG THE WEST SIDE (LEFT OF CENTERLINE).

PHASE 4:

PLACE TRAFFIC ON OUTERMOST LANES AND CONSTRUCT ALL MEDIAN PAVEMENT, CURB, ETC.

PHASE 5:

PLACE FRICTION COURSE USING LANE CLOSURES AND PLACE PERMANENT STRIPING. OPEN TO TRAFFIC.

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REVISIONS

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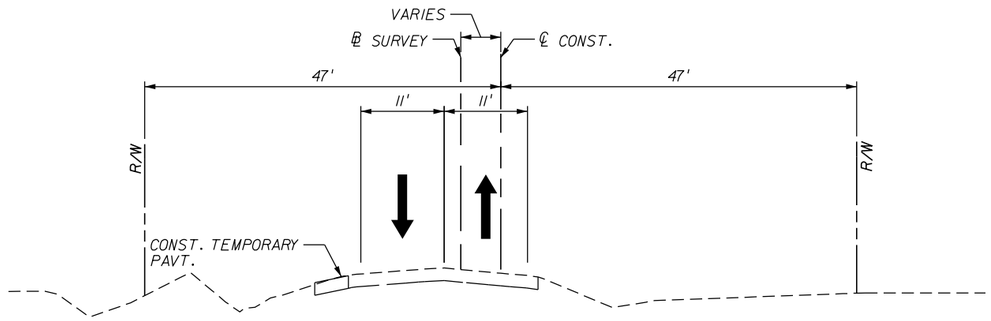
DEPARTMENT of TRANSPORTATION

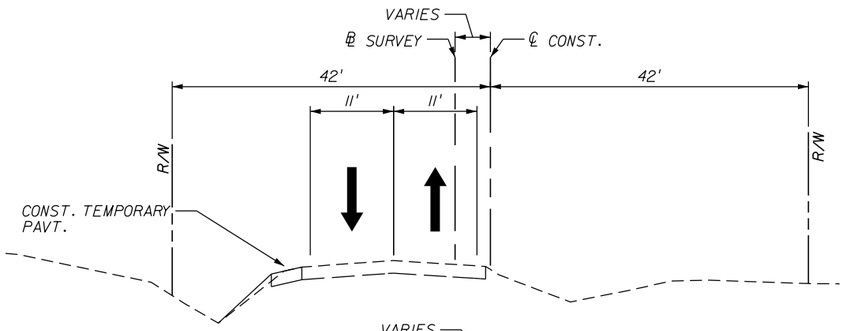
TRAFFIC CONTROL SHEETS
HOMESTEAD ROAD

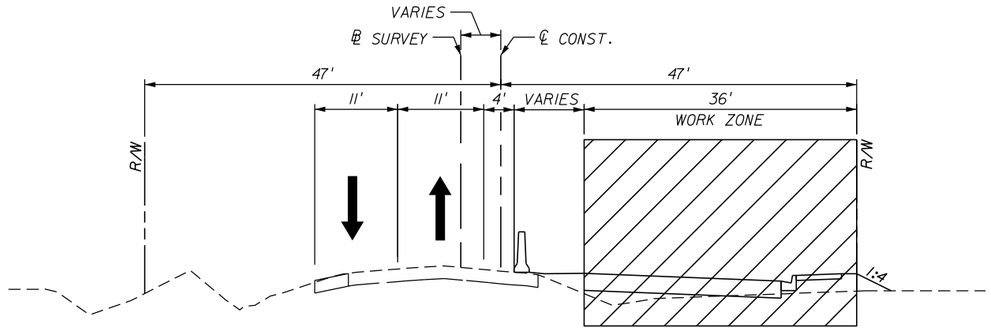
GENERAL NOTES/CONSTRUCTION PHASES

SHEET NO. 238



PHASE 1
HOMESTEAD ROAD





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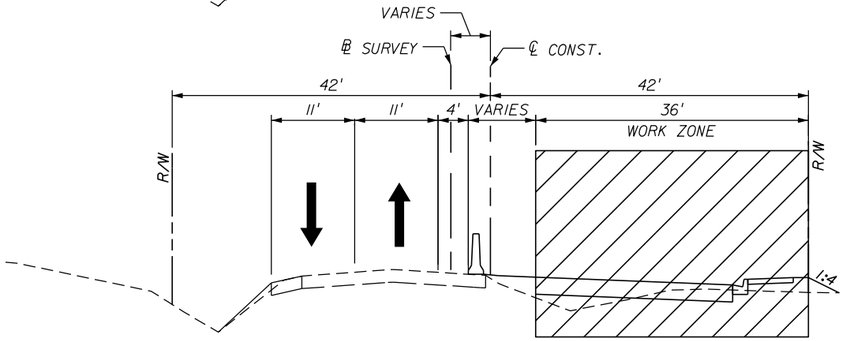
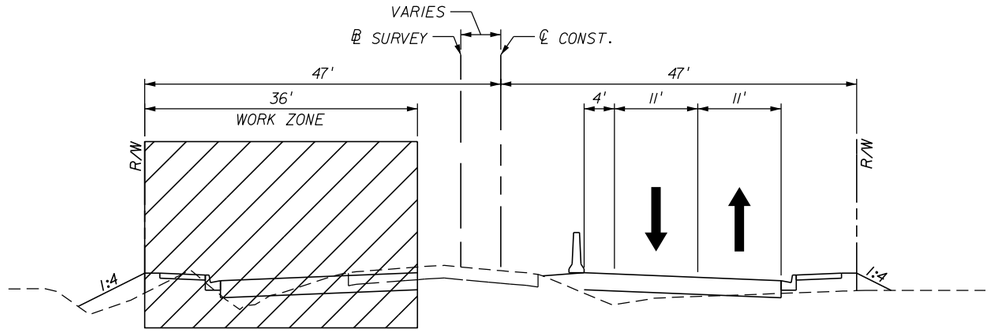
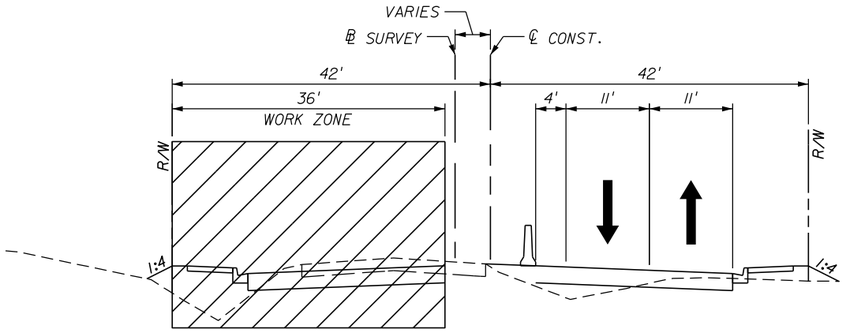
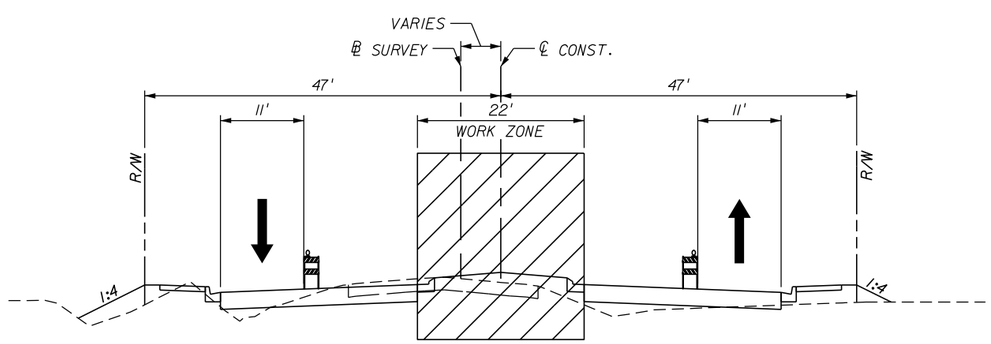
HOMESTEAD ROAD



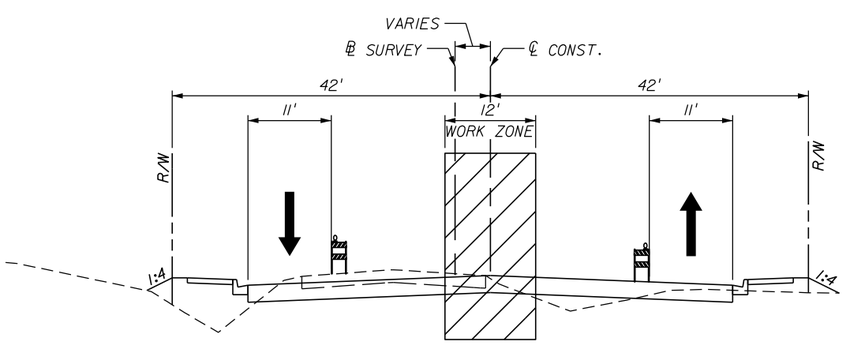


PHASE 3
HOMESTEAD ROAD





PHASE 4
HOMESTEAD ROAD



STA. 523+00.00 TO STA.589+66.45

STA. 589+66.45 TO STA. 624+74.47

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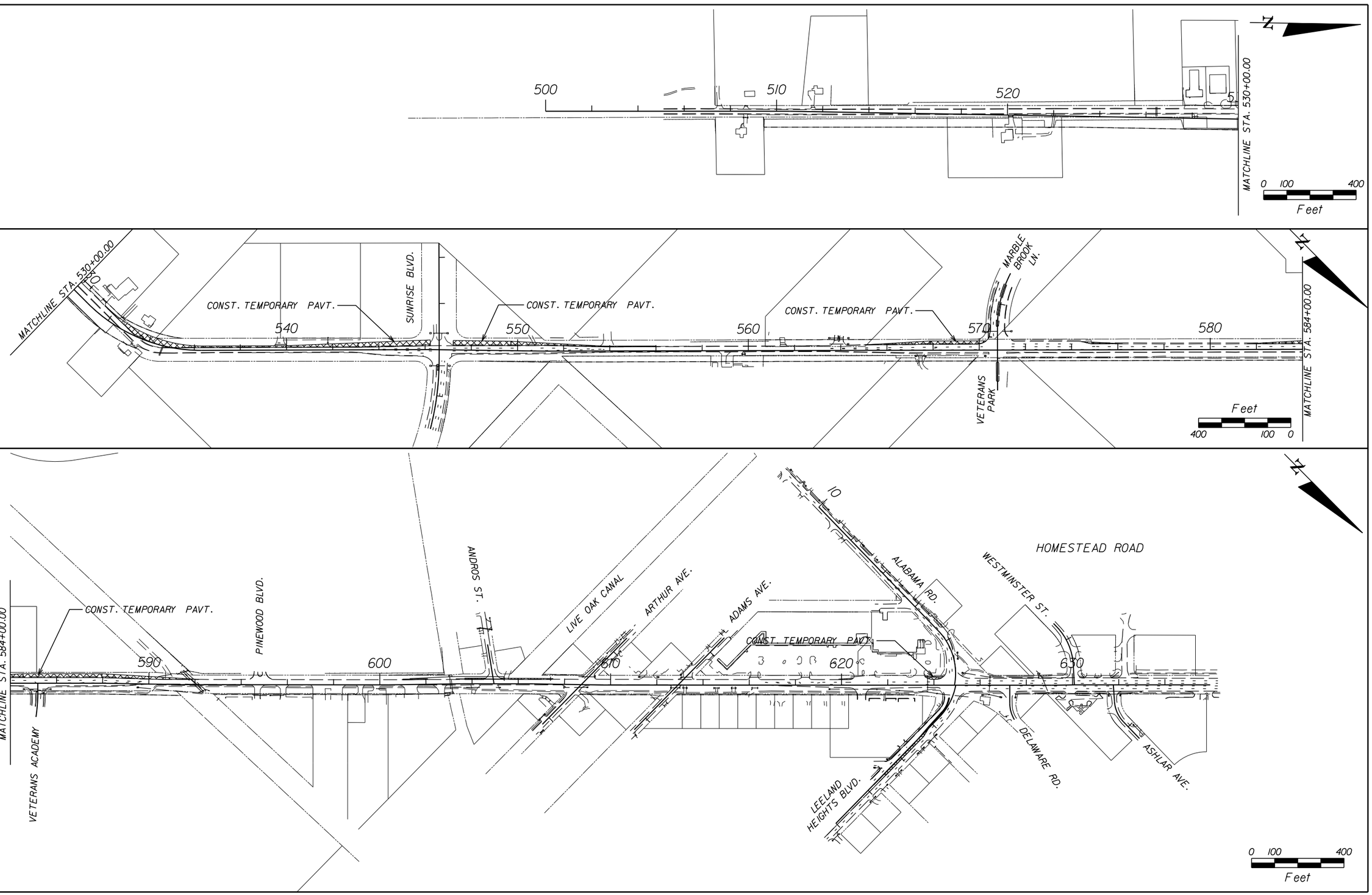
DEPARTMENT of TRANSPORTATION

EGILBERT 9/19/2016 PW:\202116\000200004\3055\13.00_CAD\Homestead\roadway\tctyrd01.dgn

TRAFFIC CONTROL SHEETS
HOMESTEAD ROAD

TYPICAL SECTIONS

SHEET NO. 239



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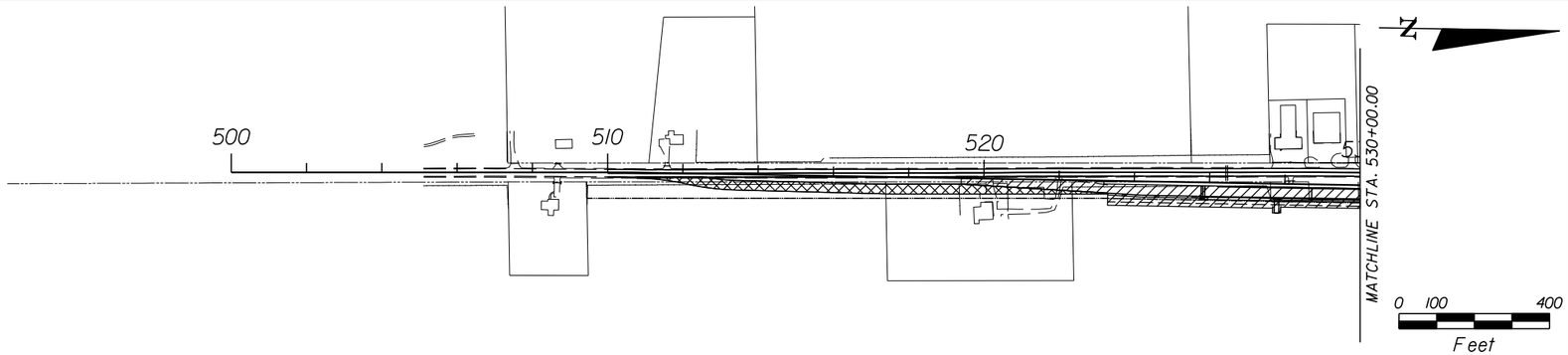
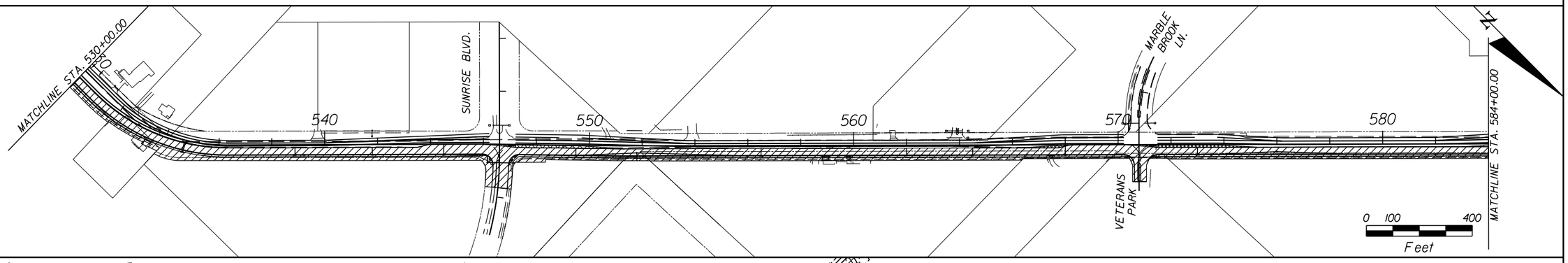
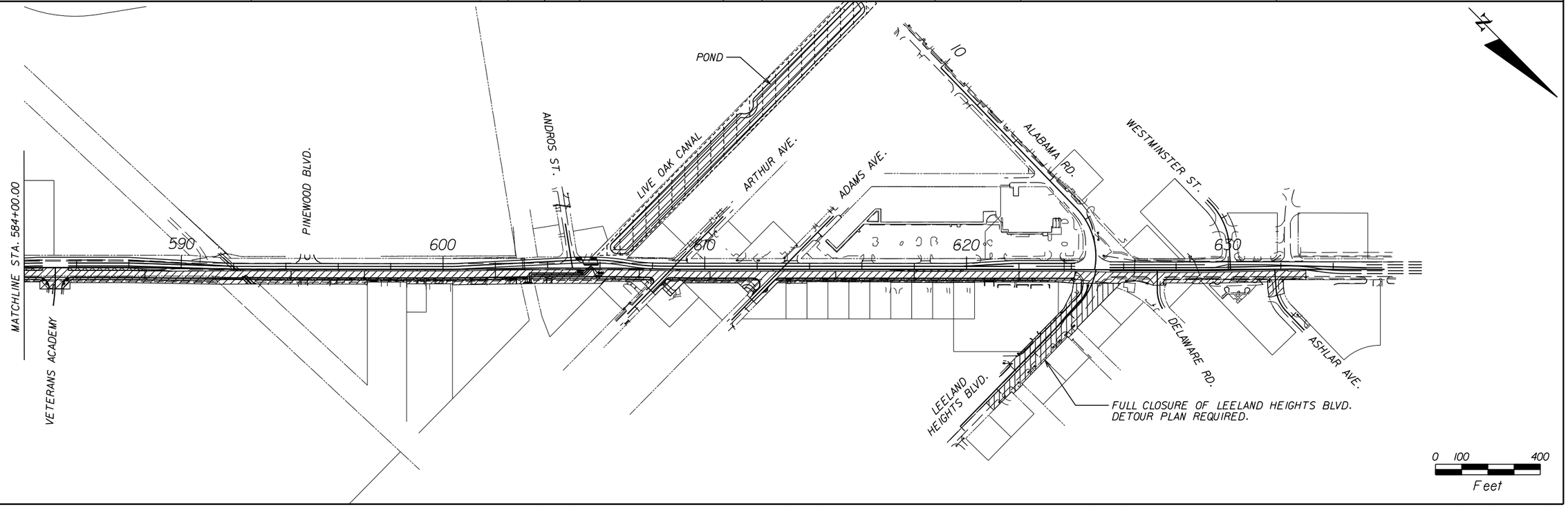
TRAFFIC CONTROL PLAN SHEET - PHASE I
HOMESTEAD ROAD

SHEET NO. 240

EGILBERT 9/19/2016 PW:\202116\0002003055\13.00_CAD\Homestead\roadway\tcplrd01.dgn







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TRAFFIC CONTROL PLAN SHEET - PHASE II
HOMESTEAD ROAD

SHEET NO. 241

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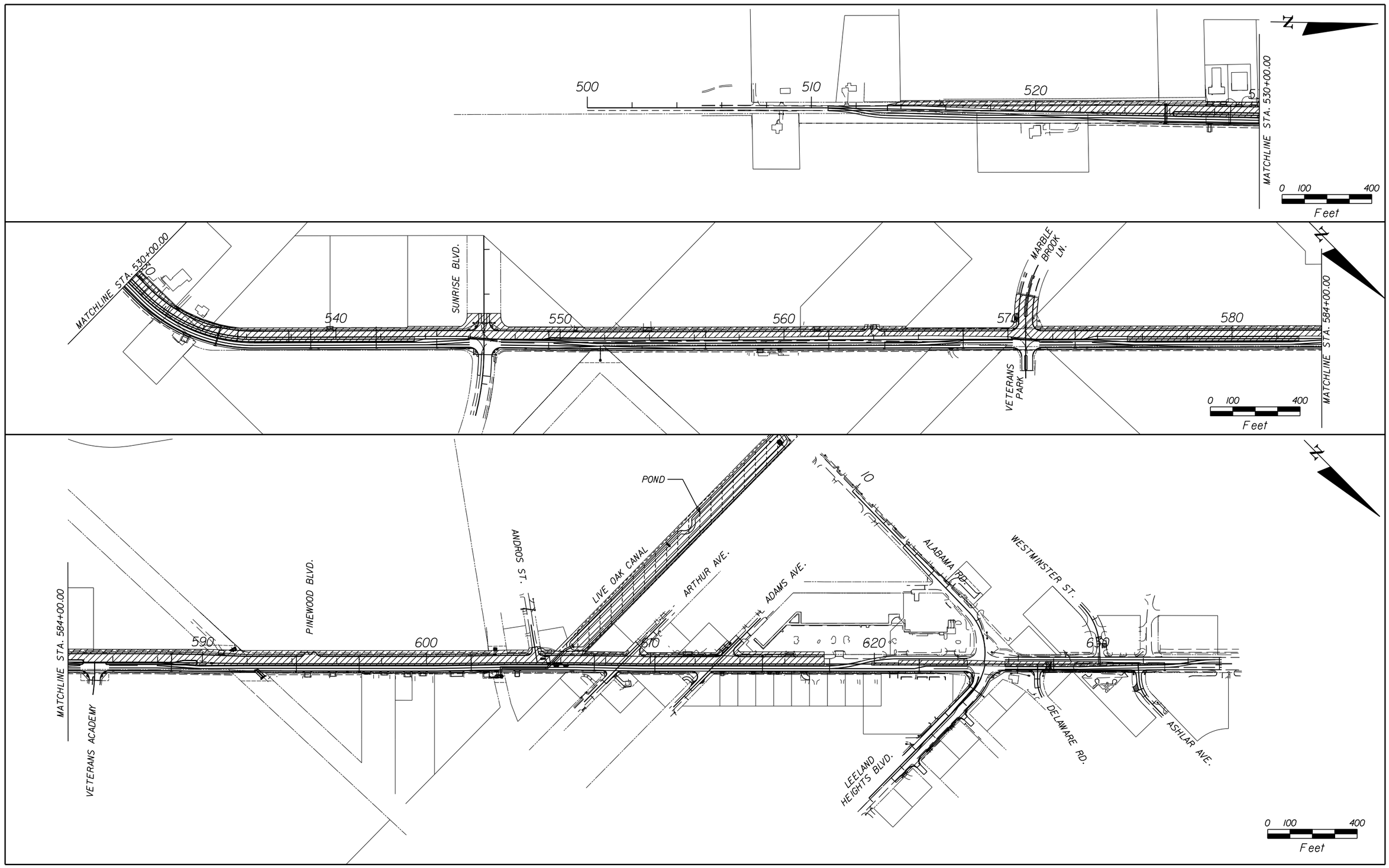

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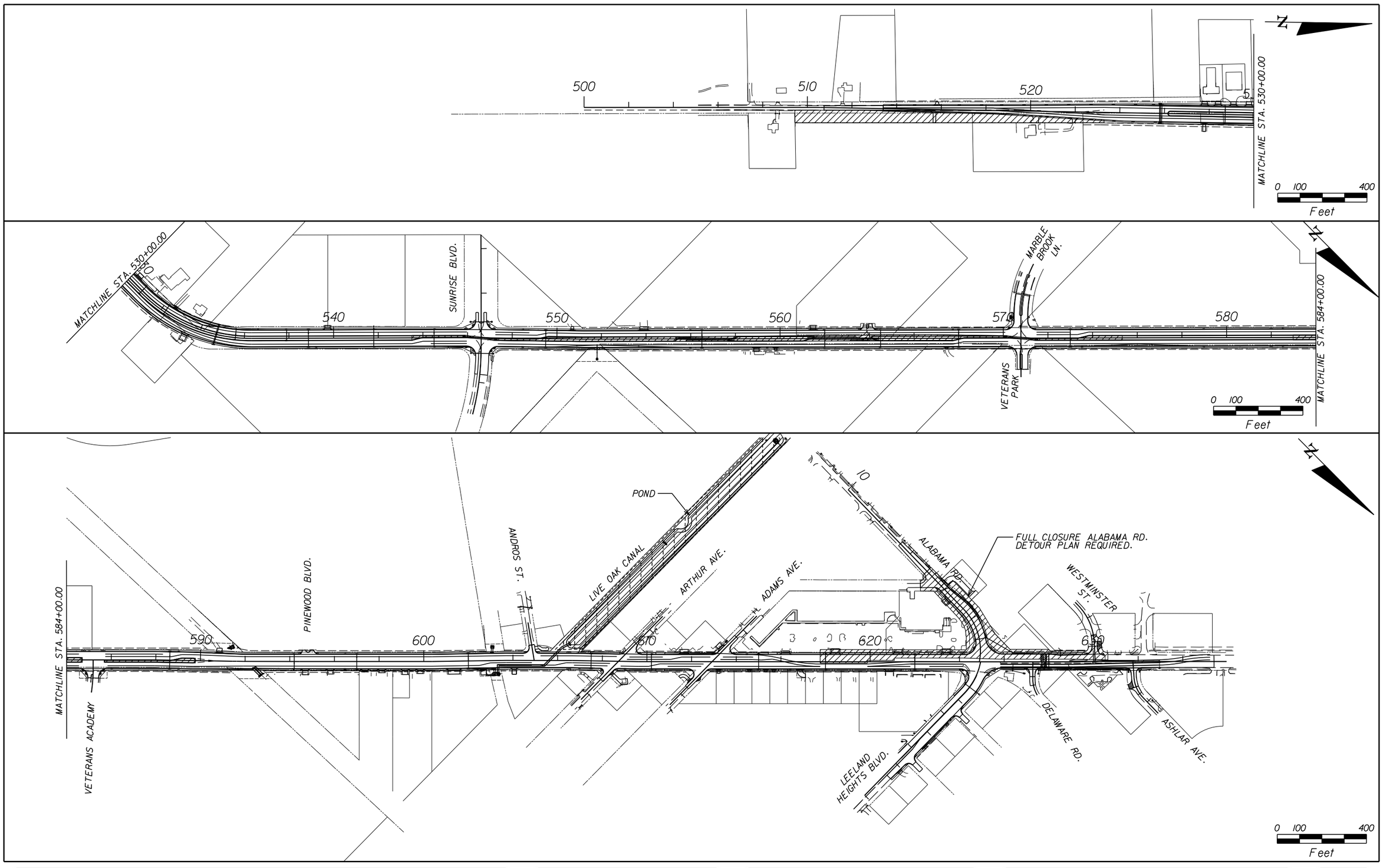
TRAFFIC CONTROL PLAN SHEET - PHASE III
HOMESTEAD ROAD

SHEET NO. 242

EGILBERT 9/19/2016 PW:\202116\0002360053055\13.00_CAD\Homestead\roadway\tcplrd03.dgn



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TRAFFIC CONTROL PLAN SHEET - PHASE IV
HOMESTEAD ROAD

SHEET NO. 243

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\roadway\tcplrd04.dgn

TEMPORARY SHEET PILE WALL NOTES

1. GENERAL:

THE CONTRACTOR SHALL CONSTRUCT THE TEMPORARY SHEET PILE WALL TO THE DIMENSIONS AND MINIMUM ELEVATIONS SHOWN IN THE PLANS. THE SHEETING MAY PENETRATE BELOW THE BOTTOM ELEVATION OR EXTEND ABOVE THE TOP ELEVATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL STRICTLY ADHERE TO THE CONSTRUCTION SEQUENCE SHOWN IN THE PLANS. IT IS CRITICAL THAT THE EXCAVATION LIMITS DO NOT EXCEED THOSE SHOWN ON THE PLANS.

2. SPECIFICATIONS:

DESIGN SPECIFICATIONS:

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), LRFD BRIDGE DESIGN SPECIFICATIONS (7TH EDITION) AND APPROVED INTERIMS AS SPECIFIED IN THE STRUCTURES MANUAL.

FDOT STRUCTURES MANUAL, JULY 2015.

3. DESIGN METHOD:

SHEET PILES ARE DESIGNED FOR A LIVE LOAD SURCHARGE EQUAL TO 2 FEET OF SOIL PLACED AT THE TOP OF WALL AND CONTINUING HORIZONTALLY. VEHICLE WHEEL LOADS ARE NOT PERMITTED WITHIN 2 FEET OF THE BACK FACE OF WALL DURING CONSTRUCTION. IF ANY ADDITIONAL LOADS WHICH EXCEED THE DESIGN ARE PLACED WITHIN A HORIZONTAL DISTANCE FROM THE TOP OF THE WALL EQUAL TO ONE HALF THE WALL HEIGHT, THE CONTRACTOR SHALL REDESIGN THE WALL. THE CONTRACTOR'S REDESIGN SHALL BE PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REDESIGN COST AND ADDITIONAL WALLS OR DETAILS USED. NO ADDITIONAL PAYMENT WILL BE MADE OVER THE AREA SPECIFIED IN THE PLANS.

4. LOAD AND RESISTANCE FACTORS:

ALL SHEET PILING IS DESIGNED BASED ON THE FOLLOWING LOAD AND RESISTANCE FACTORS:

FOR WALL STRENGTH CHECK, USE LOAD FACTOR = 1.5
RESISTANCE FACTOR = 0.9

FOR WALL GLOBAL STABILITY CHECK, USE LOAD FACTOR = 1.0
RESISTANCE FACTOR = 0.65

FOR WALL DEFLECTION CHECK, USE LOAD FACTOR = 1.0
RESISTANCE FACTOR = 1.0

MAXIMUM ALLOWABLE DEFLECTION = 3.0"

5. SHEET PILE MATERIAL:

STRUCTURAL STEEL FOR PILING SHALL CONFORM TO ASTM A572 (GRADE 50) OR ASTM A328 (GRADE 39). COLD-ROLLED SECTIONS WILL BE ALLOWED AS SUBSTITUTES FOR HOT-ROLLED SECTIONS AS LONG AS THE SECTION PROPERTY REQUIREMENTS ARE MET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE AVAILABILITY OF HOT-ROLLED AND COLD-ROLLED SECTIONS.

6. UTILITIES:

THE UTILITIES SHOWN IN THE WALL PLANS ARE AT APPROXIMATE LOCATIONS. FOR ADDITIONAL INFORMATION, REFER TO THE UTILITY ADJUSTMENT SHEETS.

7. PHASING OF WORK:

WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM WITH THE TRAFFIC CONTROL SHEETS LOCATED IN THE ROADWAY PLANS.

8. DETAILS FOR RETAINING EMBANKMENT ABOVE THE CULVERT DURING PHASE III BETWEEN WALL TW2 AND TW3 SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL. PROPOSED DETAILS SHALL NOT IMPACT THE STRUCTURAL INTEGRITY OF THE CULVERT.

9. REMOVAL OF SHEET PILING:

ALL TEMPORARY SHEET PILING SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. IT SHALL BE REMOVAD FROM THE SITE UPON COMPLETION OF WORK. THE CONTRACTOR SHALL SUBMIT HIS METHOD OF THE SHEET PILING REMOVAL AND HIS METHOD OF RESTORING THE SOIL AFTER THE REMOVAL OF THE PILING TO THE ENGINEER FOR APPROVAL.

10. THE SOIL INFORMATION SHOWN IN THE GEOTECHNICAL INFORMATION TABLES ON THIS SHEET IS BASED ON SOIL EXPLORATION AND REFLECTS DESIGN PARAMETERS. IT IS NOT AN INDICATION OF THE SOIL'S RESISTANCE TO SHEET PILE PENETRATION.

11. BID ITEM NO. 455-133-2 (SHEET PILING, STEEL) (TEMPORARY-CRITICAL) INCLUDES THE FOLLOWING QUANTITIES FOR TEMPORARY SHEET PILE WALLS: 3520 SF.

MINIMUM SHEET PILE SECTION PROPERTIES

LOCATION		PHASE II	PHASE III	
TEMPORARY WALL NO.		TW1	TW2	TW3
MINIMUM SECTION MODULUS (IN^3/FT)				
ASTM A328 GRADE 39	HOT ROLLED	13.52	13.52	13.52
	COLD ROLLED	15.90	15.90	15.90
ASTM A572 GRADE 50	HOT ROLLED	10.54	10.54	10.54
	COLD ROLLED	12.40	12.40	12.40
MINIMUM MOMENT OF INERTIA (IN^4/FT)		135.90	135.90	135.90

SOIL PARAMETERS FOR TEMPORARY SHEET PILE WALLS
PINE RIDGE ROAD

APPROX. ELEVATION (NVGD) (FT)	SOIL TYPE	UNIT WEIGHT OF SOIL (PCF)	SOIL FRICTION (DEGREES)	WALL FRICTION (DEGREES)	SOIL COHESION (PSF)	WATER TABLE ELEVATION (NGVD) (FT)
0 - 17	SAND (SP)	112	30	0	0	24
17 - 30	SILTY SAND (SM)	102	26	0	0	

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SHEET PILE GENERAL NOTES

SHEET NO. 244

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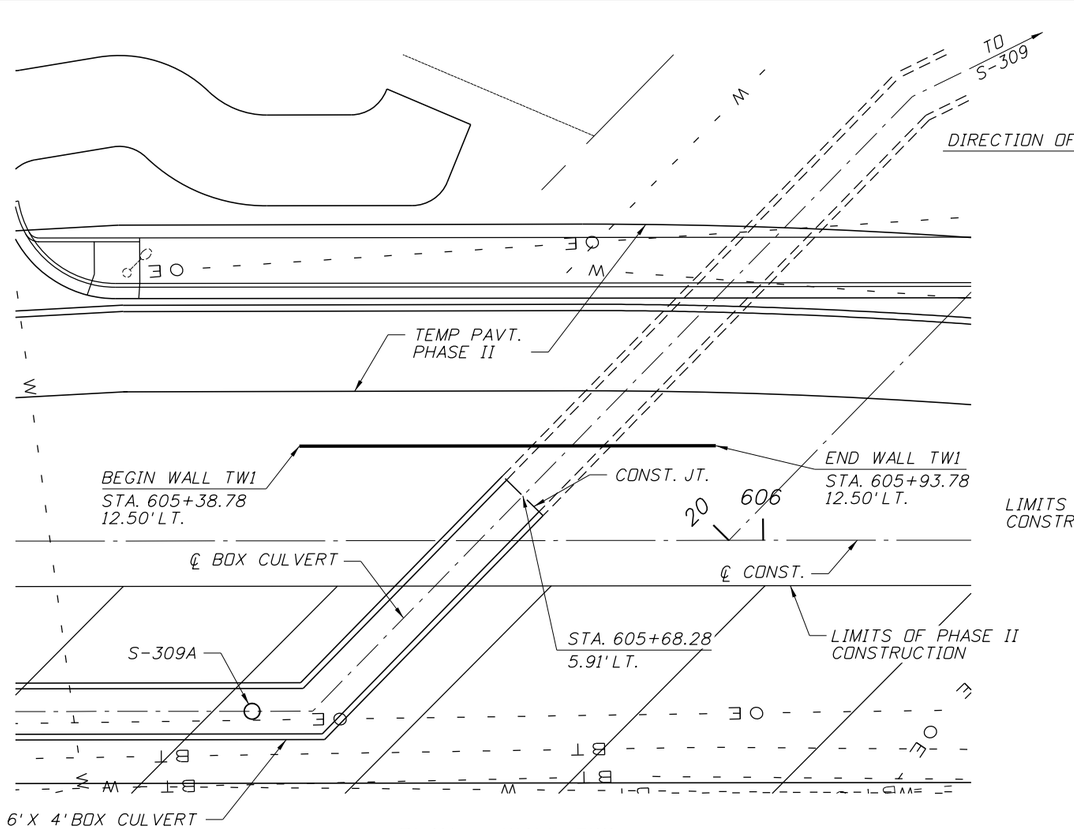
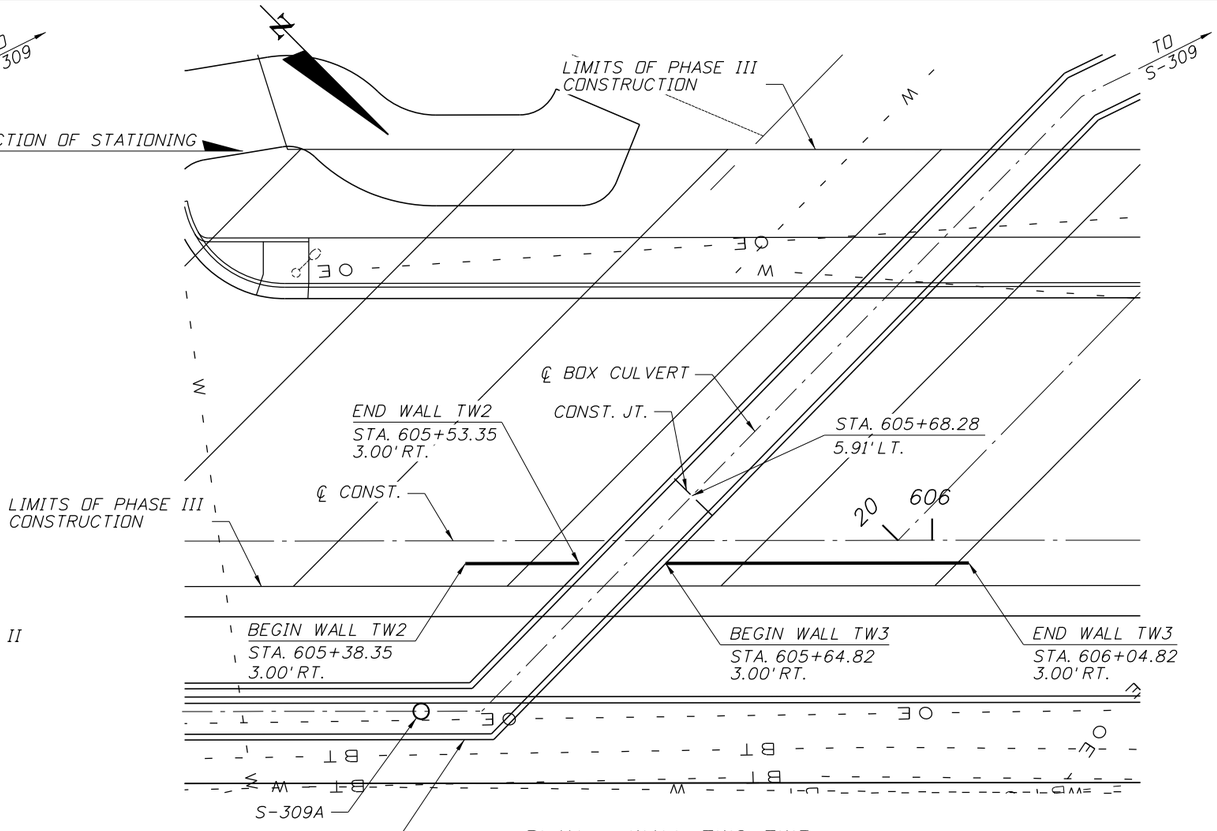
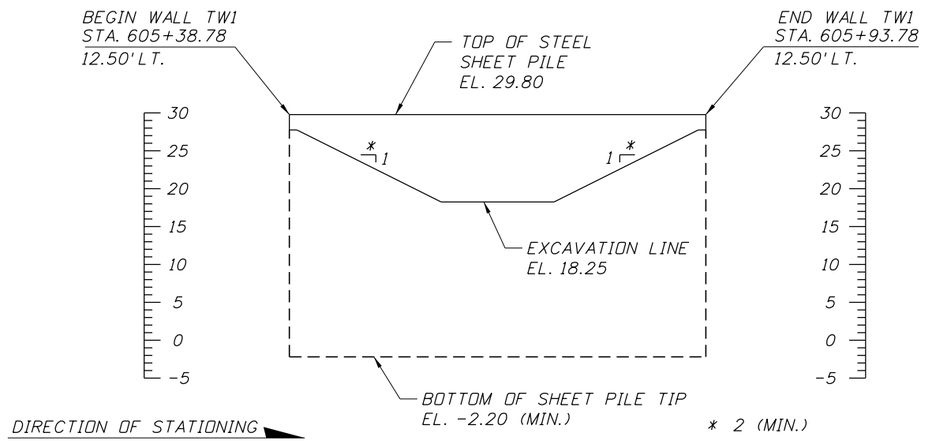


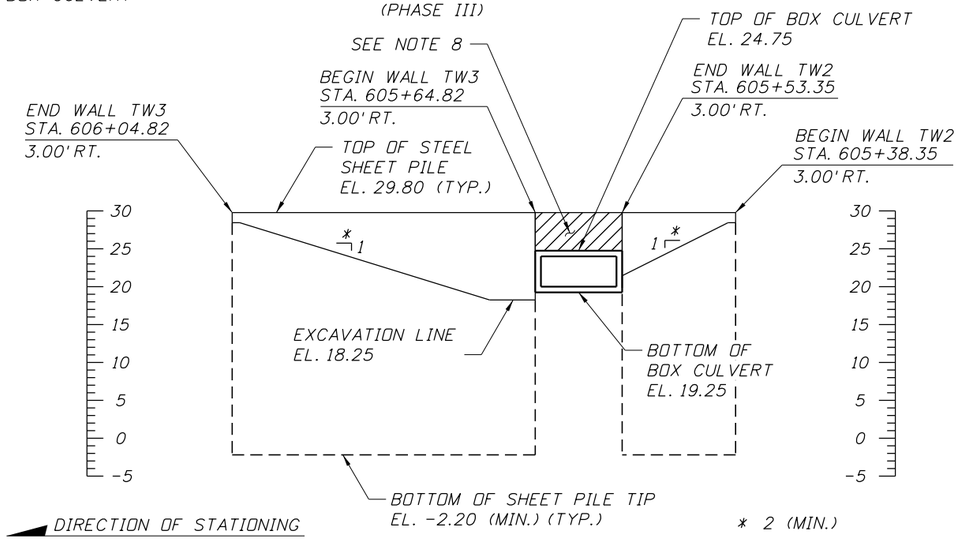
PLAN - WALL TW1
(PHASE II)



PLAN - WALL TW2, TW3
(PHASE III)



ELEVATION - WALL TW1
(PHASE II)



ELEVATION - WALL TW2, TW3
(PHASE III)

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TEMPORARY WALLS
TW1, TW2 AND TW3

SHEET NO. 245

9/19/2016 11:21:07 AM PW:\202116\00000000053055\V3.00_CAD\Homestead\struct\BlSheetPileWallST01.dgn

BEGIN CONSTRUCTION
STA. 509+44.19

EXIST. OE / TO REMAIN
LCEC

POT STA. 510+57.76

℄ CONST.

EXIST. OE / TO REMAIN
LCEC

EXIST. 6" FM / ABANDONED
FGUA

EXIST. 12" FM / TO REMAIN
FGUA

BEGIN PROJECT
STA. 513+40.00

15" RCP #2

N 01° 03' 06" W

HOMESTEAD ROAD

N 00° 03' 06" W

MATCHLINE STA. 515+00

47.90'
5'
8.29'
61.19'
5'
15.9'
11.9'
32.82'

EXIST. OE / TO REMAIN
LCEC

EXIST. OT / TO REMAIN
CENTURYLINK

EXIST. OHTV / TO BE REMOVED
COMCAST

EXIST. OT / TO BE REMOVED
CENTURYLINK

EXIST. OE / TO BE REMOVED
LCEC

EXIST. 12" WM / TO REMAIN
FGUA

OE / PROPOSED
LCEC

EXIST. OHTV / TO BE RELOCATED
COMCAST

BT / PROPOSED
CENTURYLINK

0 10 50
Feet

BEGIN CONSTRUCTION
STA. 509+44.19

BEGIN MILLING & RSF.
STA. 510+75.00

END MILLING & RSF.
BEGIN PROJECT
STA. 513+40.00

EXIST. GROUND LINE

PROFILE GRADE LINE

(+)0.000%

(+)0.023%

(-)0.063%

(-)0.063%

RETENTION AREA A BOTTOM = 29.00

31.12
31.16
31.2
31.06
30.9

35
30
25
20

509 510 511 512 513 514

SCALE:
1" = 50' HORZ.
1" = 5' VERT.

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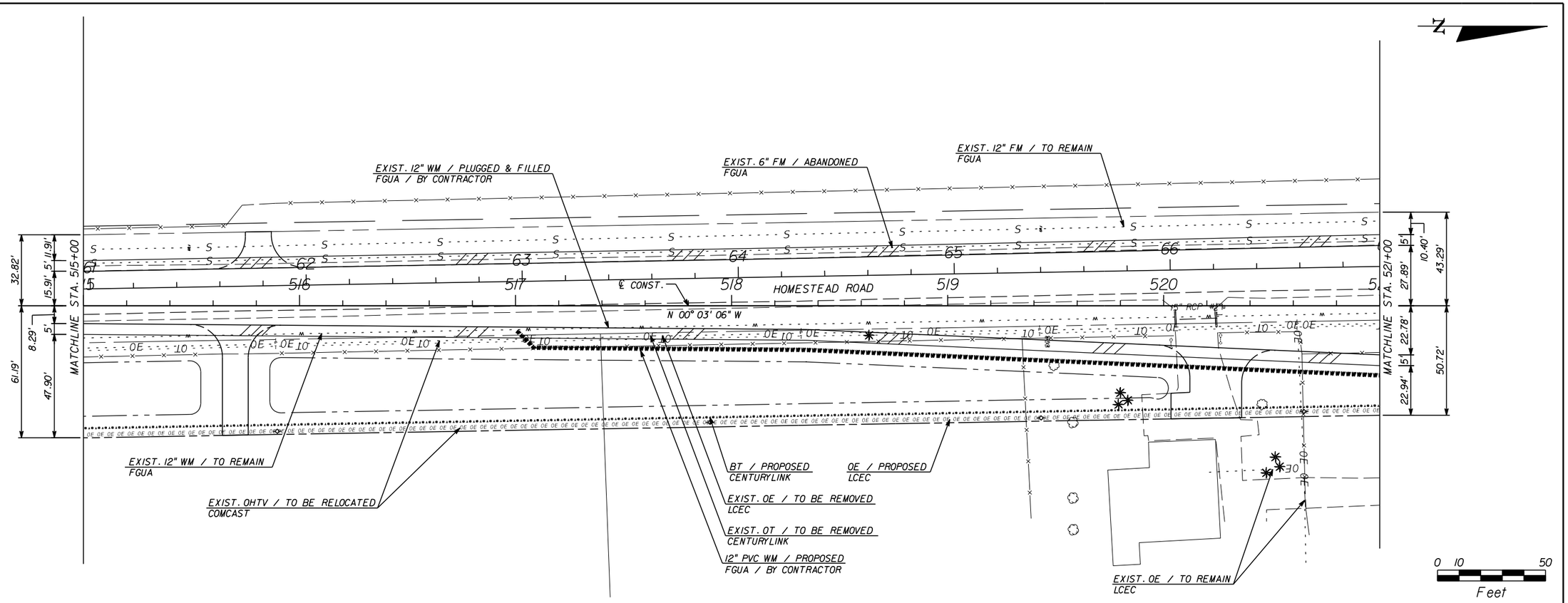
DEPARTMENT of TRANSPORTATION

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 508+00 TO STA. 515+00

SHEET NO. 246

EGILBERT 9/19/2016 PW:\202116\DGN\200053055\13.00_CAD\Homestead\utils\utadrd01.dgn



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UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 515+00 TO STA. 521+00

SHEET NO. 247

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd02.dgn

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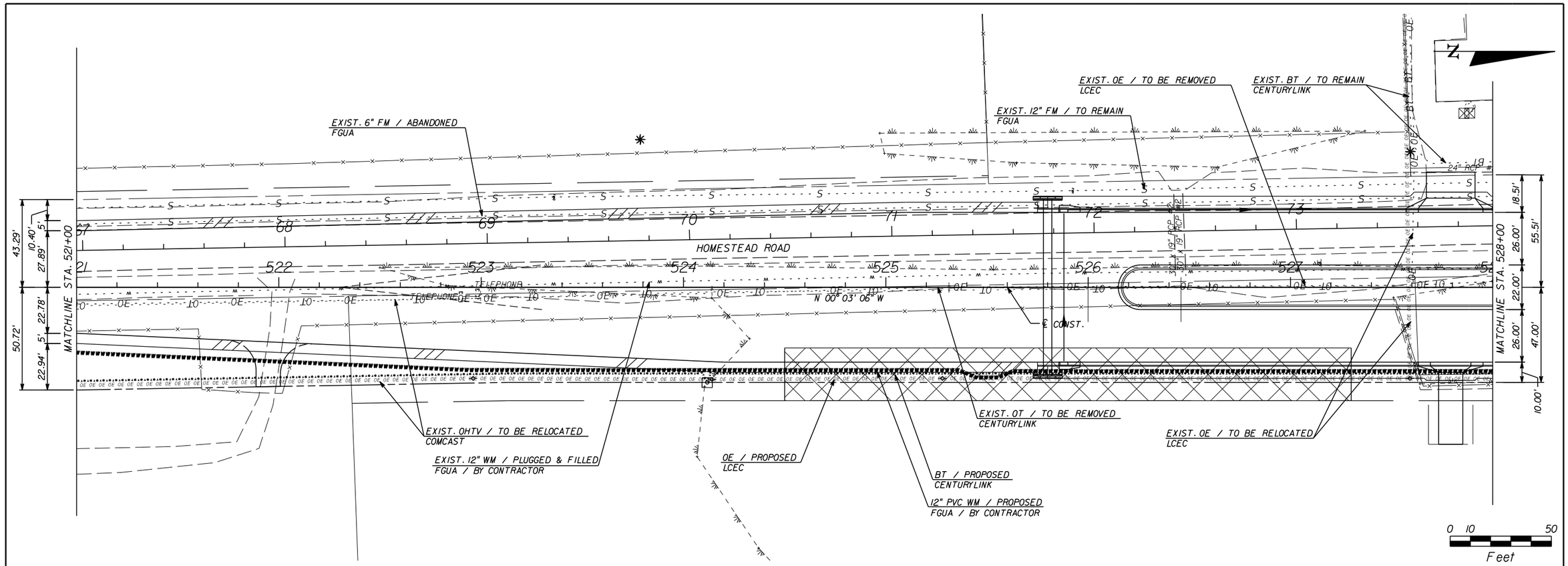

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UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD
STA. 521+00 TO STA. 528+00

SHEET NO. 248

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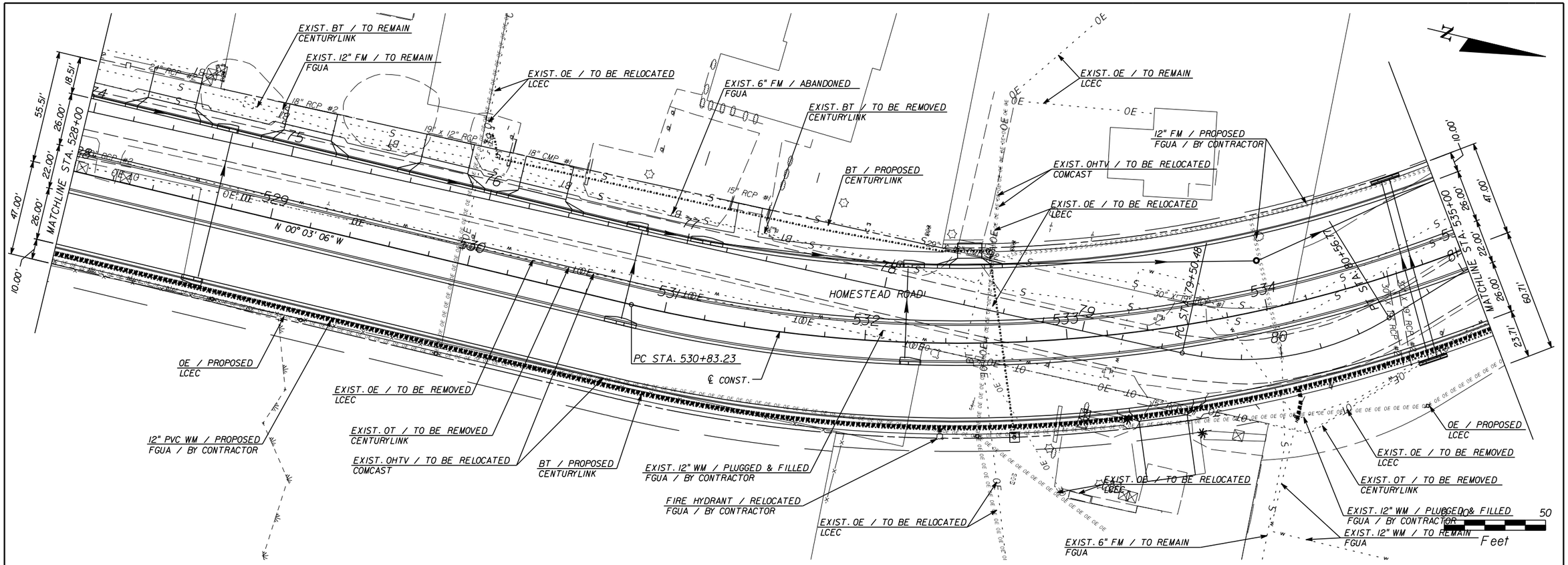

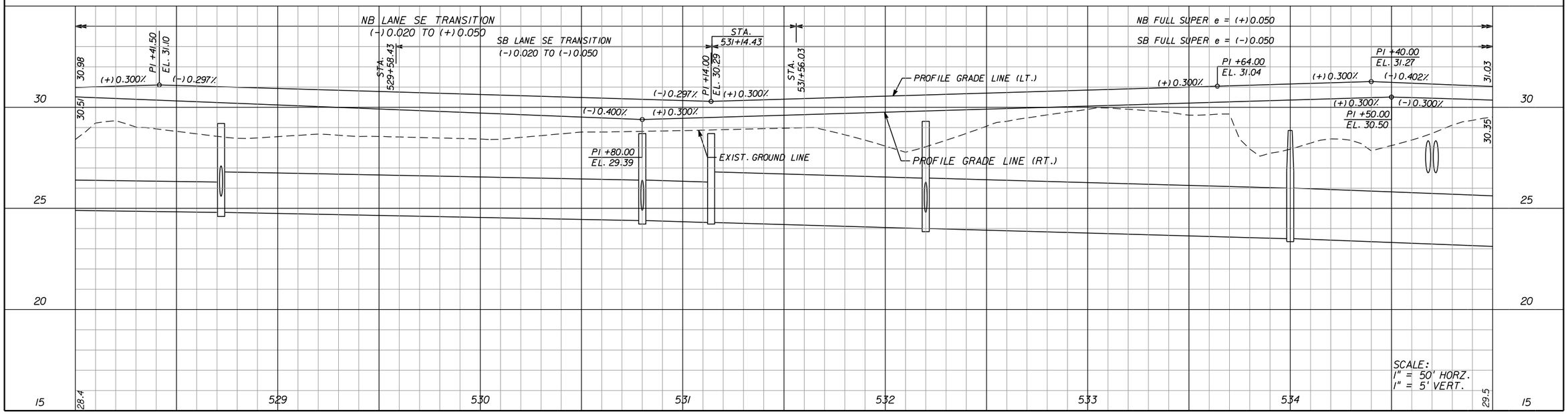

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 528+00 TO STA. 535+00

SHEET NO. 249

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd04.dgn

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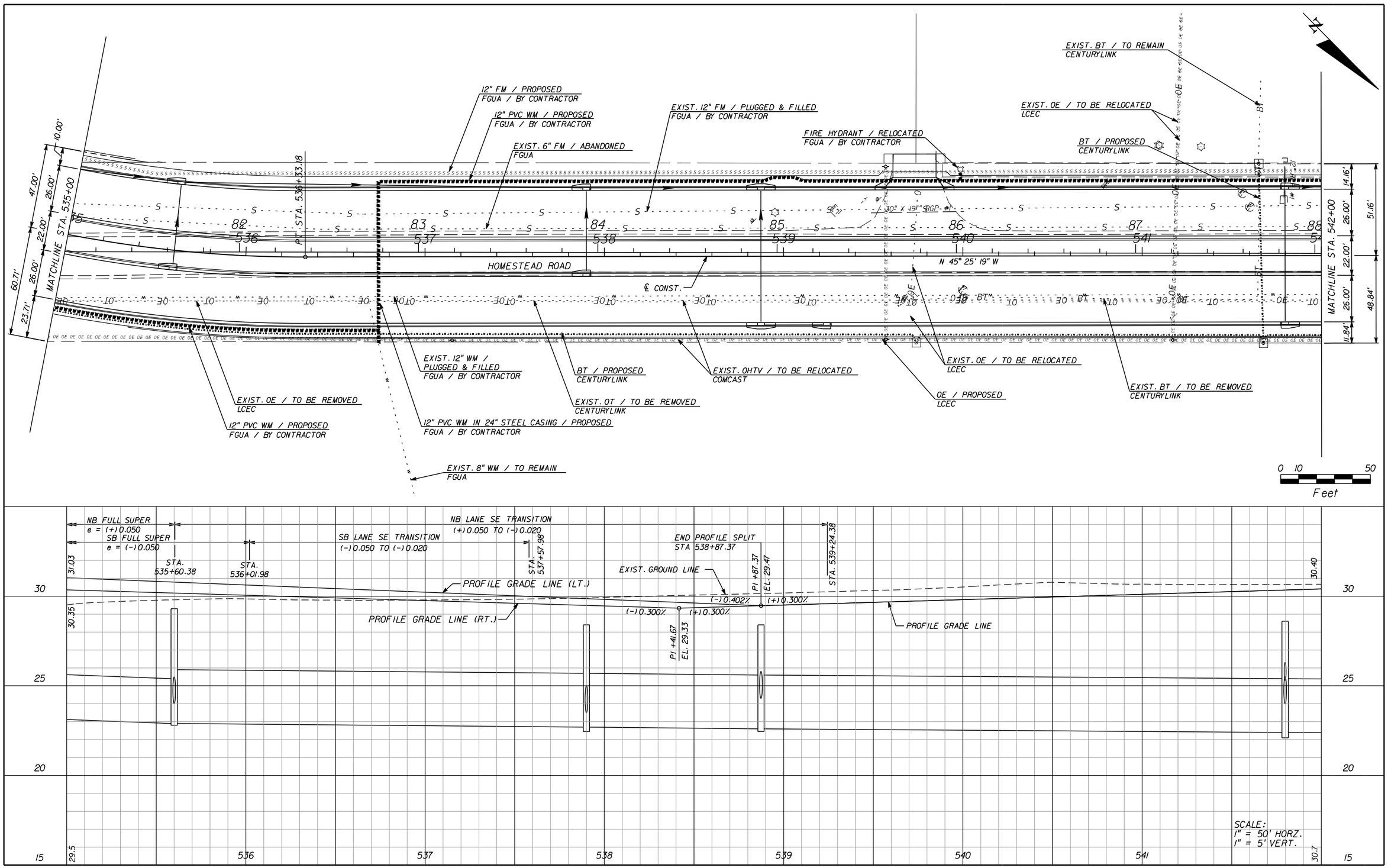

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

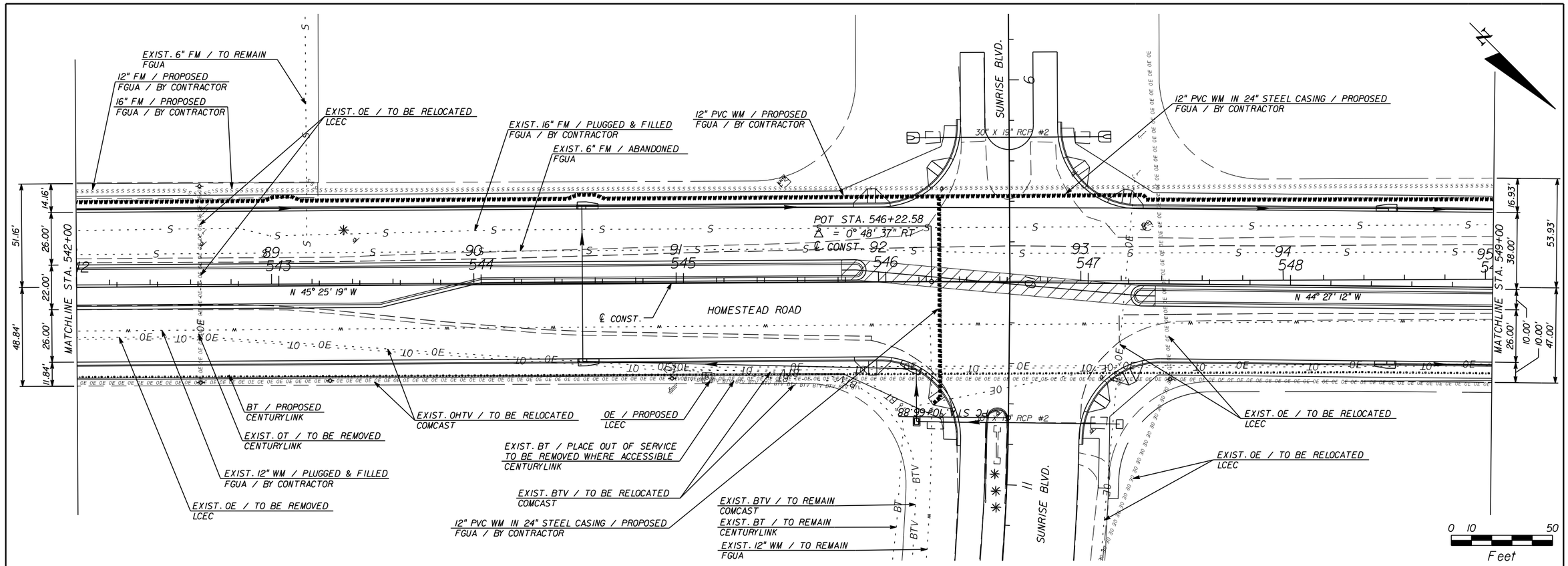
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

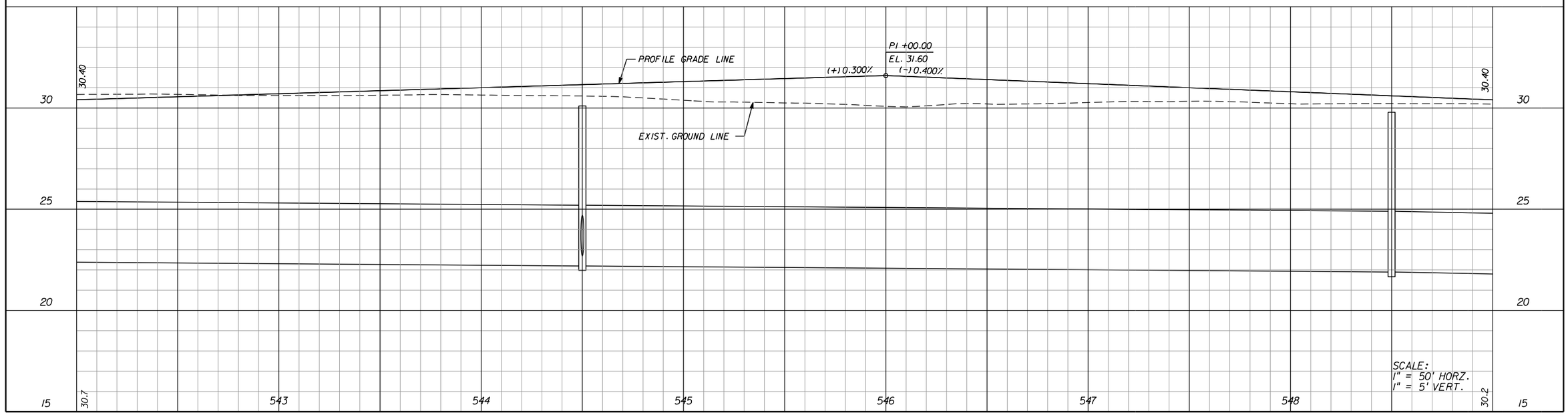
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 535+00 TO STA. 542+00

SHEET NO. 250

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd05.dgn





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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 542+00 TO STA. 549+00

SHEET NO. 251

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd06.dgn

EXIST. BT / TO REMAIN
CENTURYLINK

EXIST. OE / TO REMAIN
LCEC

EXIST. BTV / TO REMAIN
COMCAST

POT STA. 551+17.49
Δ = 0° 54' 58" LT
℄ CONST.

EXIST. OE / TO BE RELOCATED
LCEC

FIRE HYDRANT / RELOCATED
FGUA / BY CONTRACTOR

EXIST. 16" FM / PLUGGED & FILLED
FGUA / BY CONTRACTOR

12" PVC WM / PROPOSED
FGUA / BY CONTRACTOR

24" RCP

16" FM / PROPOSED
FGUA / BY CONTRACTOR

EXIST. 6" FM / ABANDONED
FGUA

POT STA. 551+90

HOMESTEAD ROAD

MATCHLINE STA. 549+00

MATCHLINE STA. 556+00

53.93'
16.93'
38.00'
47.00'
10.00'
10.00'
26.00'

N 44° 27' 12" W

N 45° 22' 10" W

℄ CONST.

BT / PROPOSED
CENTURYLINK

OE / PROPOSED
LCEC

EXIST. BT / PLACE OUT OF SERVICE
TO BE REMOVED WHERE ACCESSIBLE
CENTURYLINK

EXIST. 12" WM / TO REMAIN
FGUA

OHTV / PROPOSED
COMCAST

EXIST. BT / PLACE OUT OF SERVICE
TO BE REMOVED WHERE ACCESSIBLE
CENTURYLINK

EXIST. BTV / TO BE REMOVED
COMCAST

EXIST. OE / TO BE REMOVED
LCEC

EXIST. OE / TO BE RELOCATED
LCEC

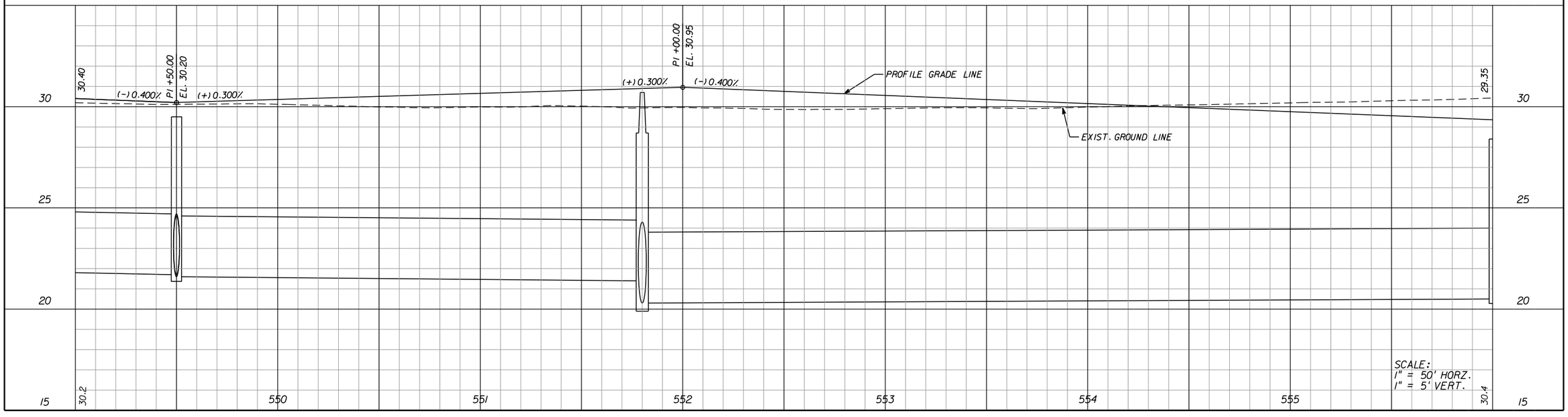
EXIST. OHTV / TO BE RELOCATED
COMCAST

EXIST. OT / TO BE REMOVED
CENTURYLINK

EXIST. OE / TO BE RELOCATED
LCEC

N

0 10 50
Feet



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REVISIONS					
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Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

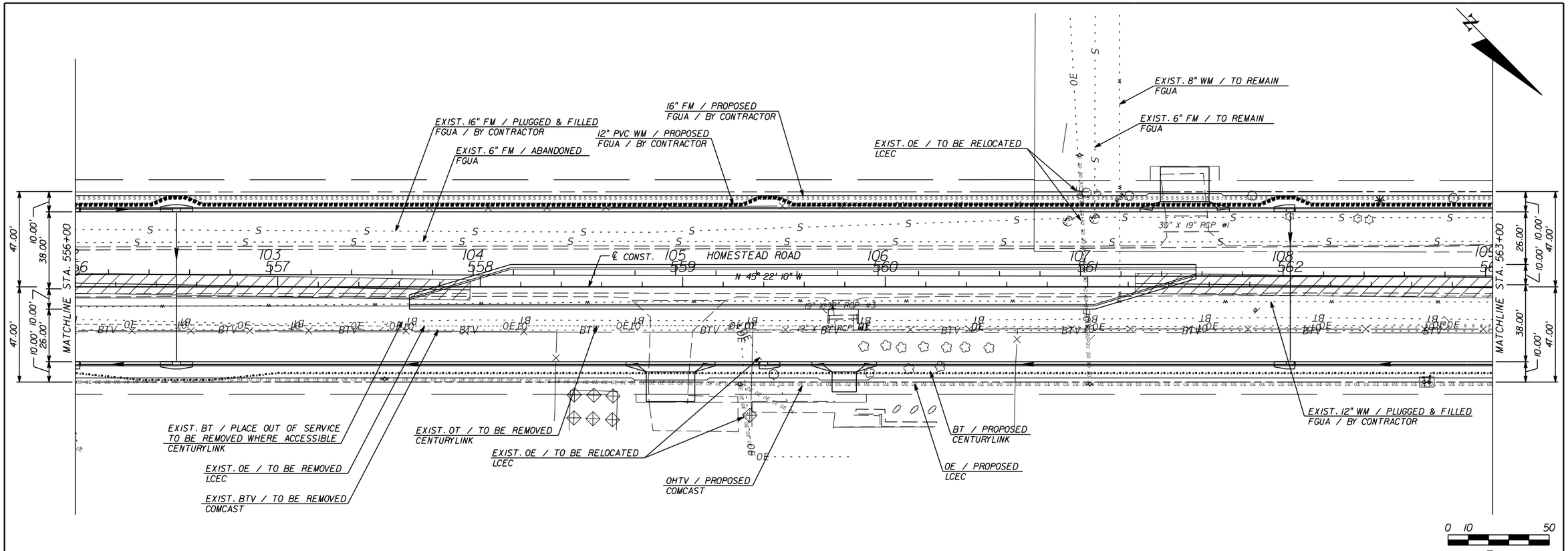
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

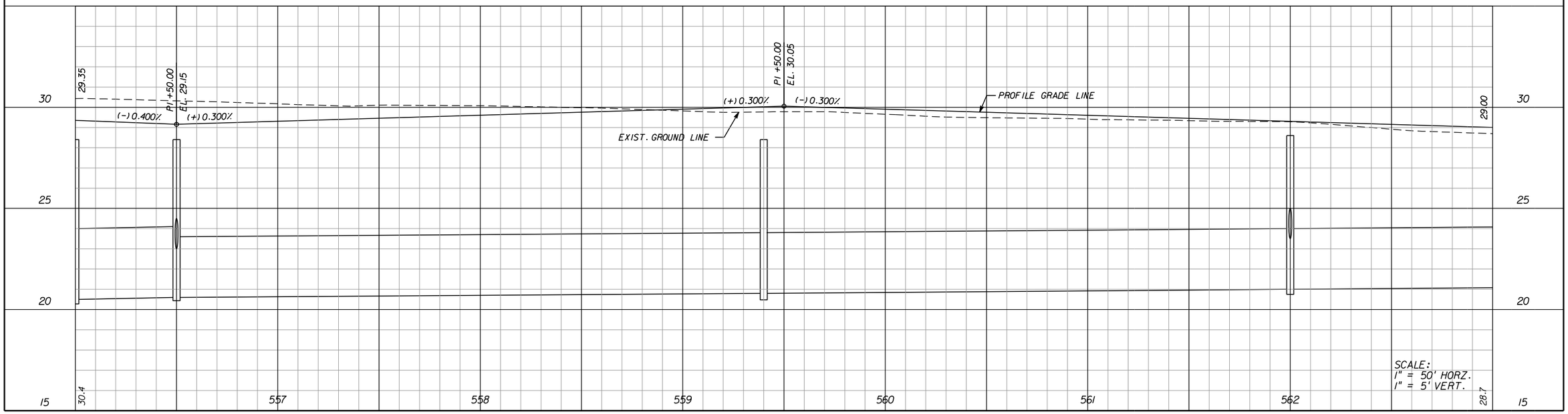
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 549+00 TO STA. 556+00

SHEET NO.
252

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd07.dgn





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
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HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd08.dgn

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 556+00 TO STA. 563+00

SHEET NO. 253

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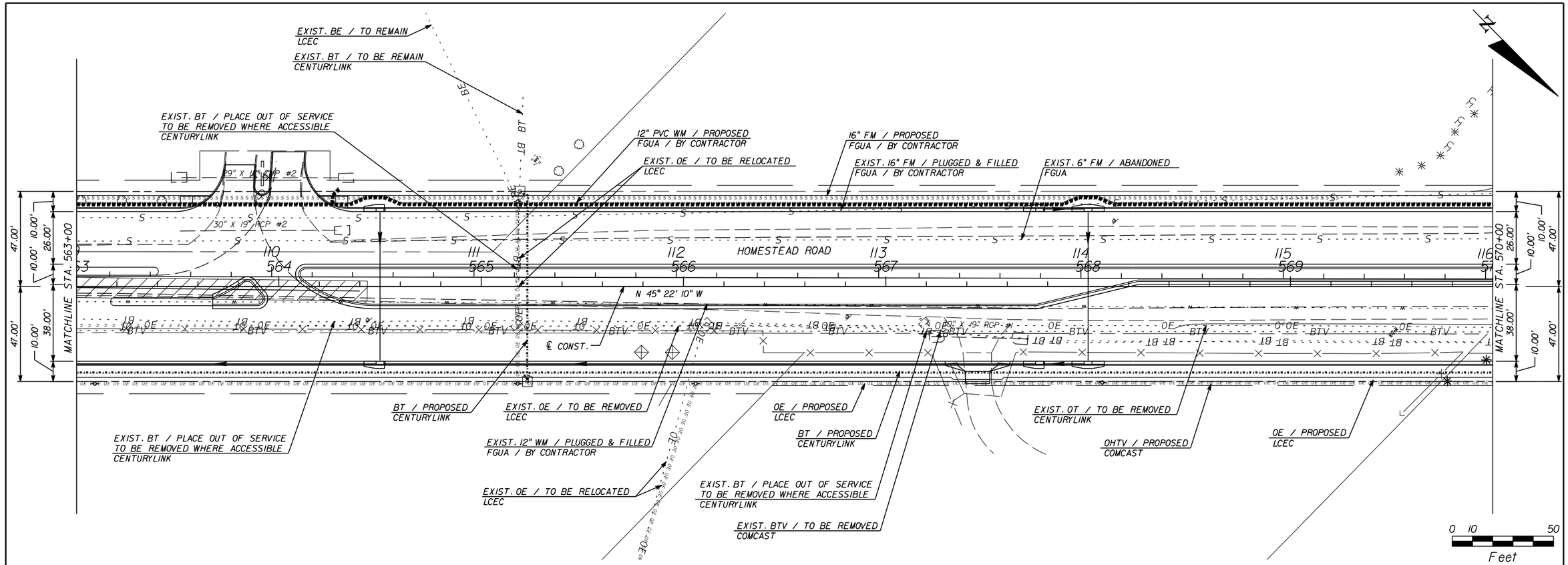

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REVISIONS					
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Jason L. Starr, P.E.
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HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

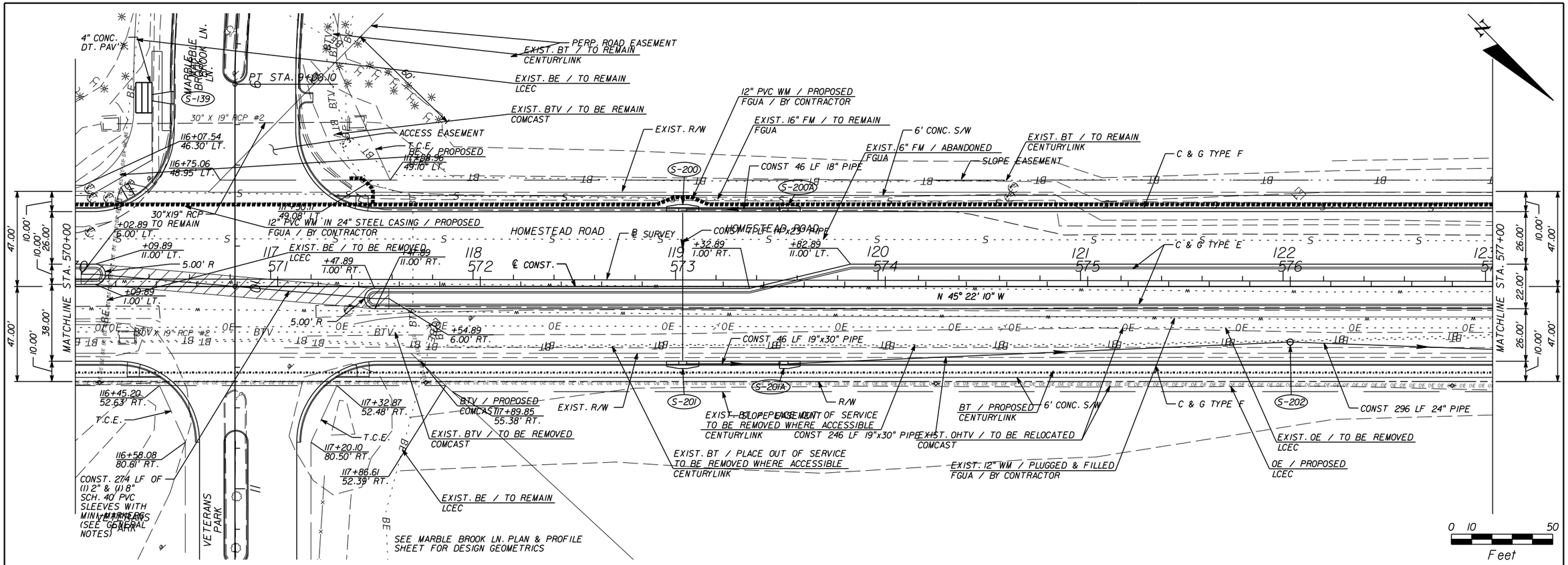
DEPARTMENT of TRANSPORTATION

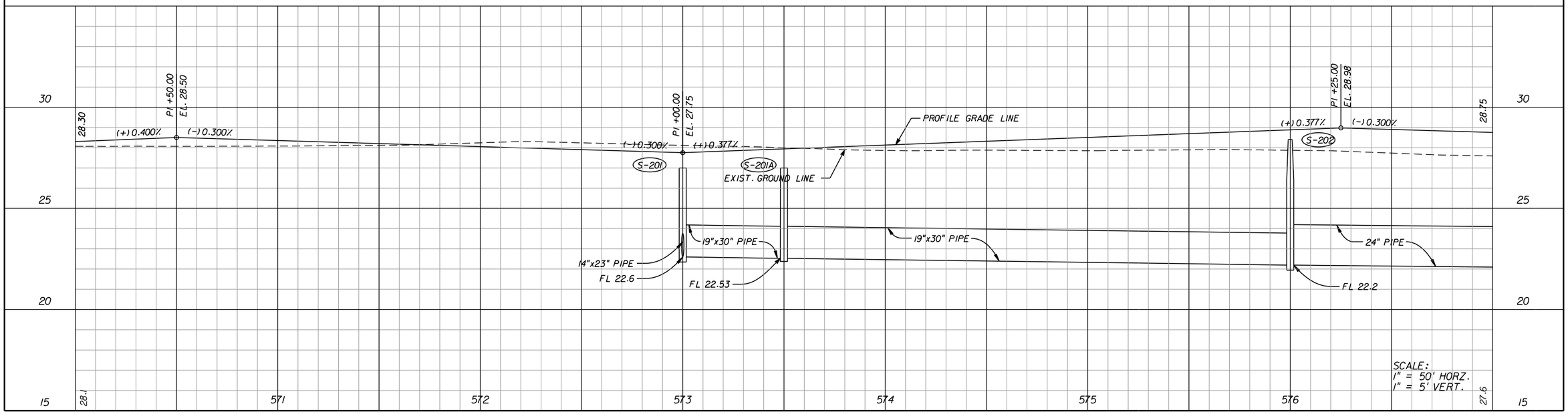
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 563+00 TO STA. 570+00

SHEET NO. 254

EGILBERT 9/19/2016 PW:\202116\100000053055\13.00_CAD\Homestead\utils\utadrd09.dgn





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Sarasota, FL 34232-6233
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

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(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 570+00 TO STA. 577+00

SHEET NO. 255

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd10.dgn

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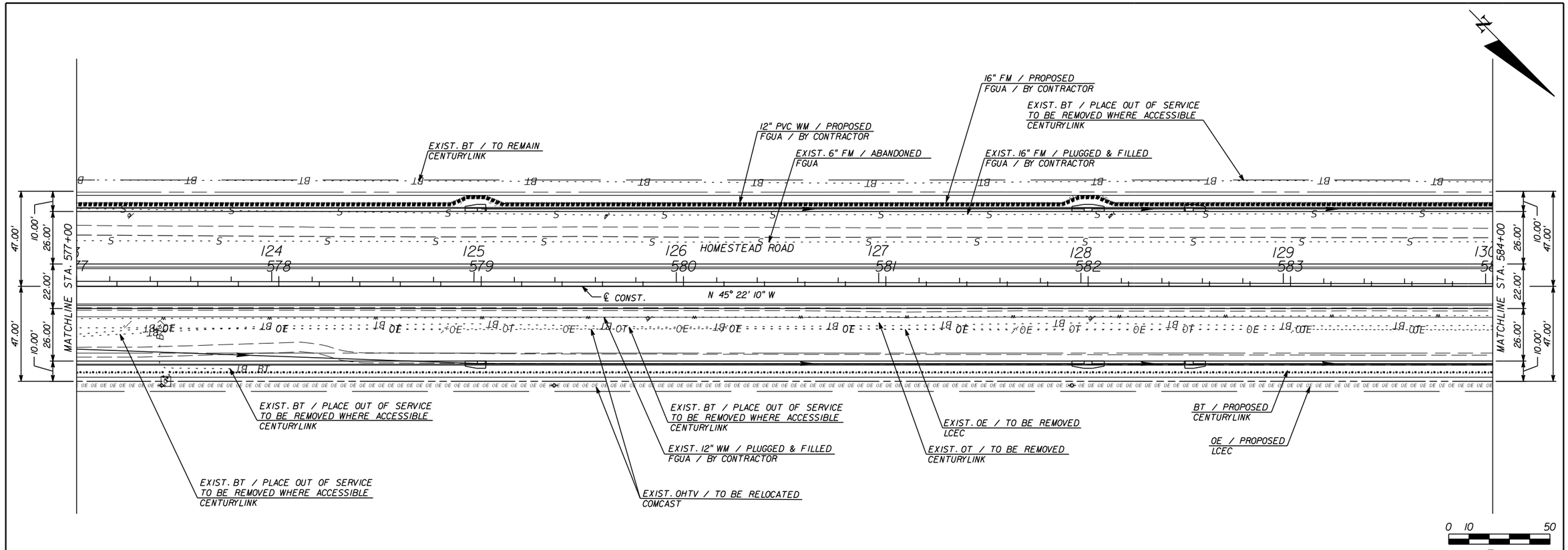

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Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

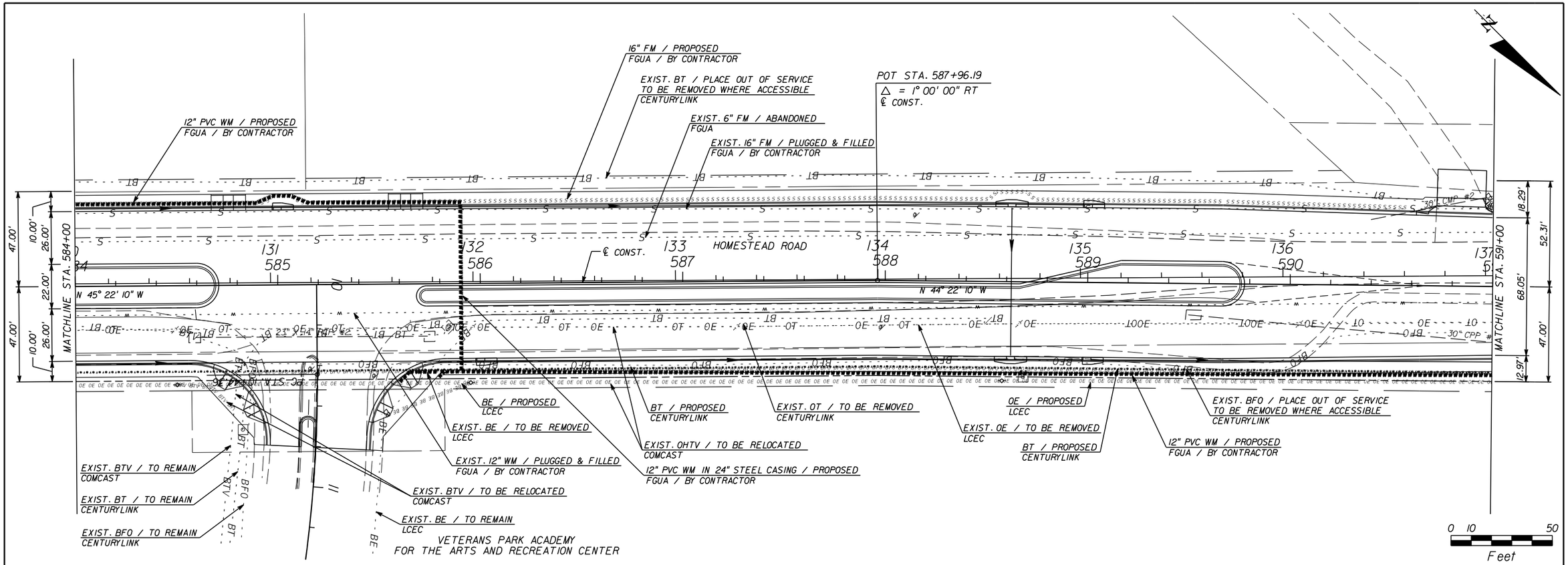
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

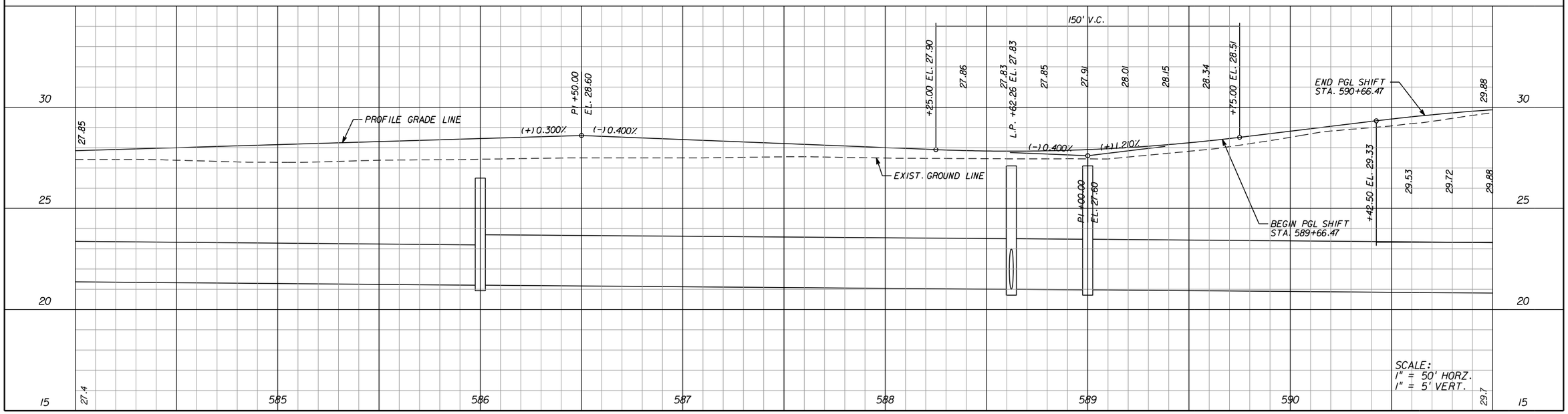
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 577+00 TO STA. 584+00

SHEET NO.
256

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd11.dgn





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 584+00 TO STA. 591+00

SHEET NO. 257

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd12.dgn

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EXIST. BE / TO REMAIN
LCEC

EXIST. 1¼ PE / TO REMAIN
BALGAS

EXIST. BTV / TO REMAIN
COMCAST

POT STA. 591+91.18
△ = 0° 58' 07" LT
℄ CONST.

EXIST. BT / TO REMAIN
CENTURYLINK

EXIST. BT / TO REMAIN
CENTURYLINK

EXIST. BE / TO REMAIN
LCEC

EXIST. 12" WM / TO REMAIN
FGUA

EXIST. BT / TO REMAIN
CENTURYLINK

12" PVC WM IN 24" STEEL CASING / PROPOSED
FGUA / BY CONTRACTOR

PINEWOOD S BLVD

EXIST. 6" FM / TO REMAIN
FGUA

EXIST. BT / TO REMAIN
CENTURYLINK

EXIST. BT / PLACE OUT OF SERVICE TO BE REMOVED WHERE ACCESSIBLE
CENTURYLINK

EXIST. BE / TO REMAIN
LCEC

EXIST. BTV / TO REMAIN
COMCAST

52.31'
18.29'
68.05'
MATCHLINE STA. 591+00
12.97'
47.00'

138 592 | 139 593 | HOMESTEAD ROAD | 140 594 | 141 595 | 142 596 | 143 597 | 144 598

MATCHLINE STA. 598+00
10.00'
42.00'
64.00'
10.00'
42.00'

N 44° 22' 10" W

℄ CONST.

N 45° 20' 17" W

EXIST. 12" WM / TO REMAIN
FGUA

BT / PROPOSED
CENTURYLINK

EXIST. OHTV / TO BE RELOCATED
COMCAST

EXIST. 16" FM / TO REMAIN
FGUA

CANAL 57-5-3 (BONEFISH)

0E / PROPOSED
LCEC

EXIST. OT / TO BE REMOVED
CENTURYLINK

EXIST. OE / TO BE RELOCATED
LCEC

EXIST. BFO / PLACE OUT OF SERVICE TO BE REMOVED WHERE ACCESSIBLE
CENTURYLINK

12" PVC WM / PROPOSED
FGUA / BY CONTRACTOR

NEW IMAGE MINISTRIES CHURCH

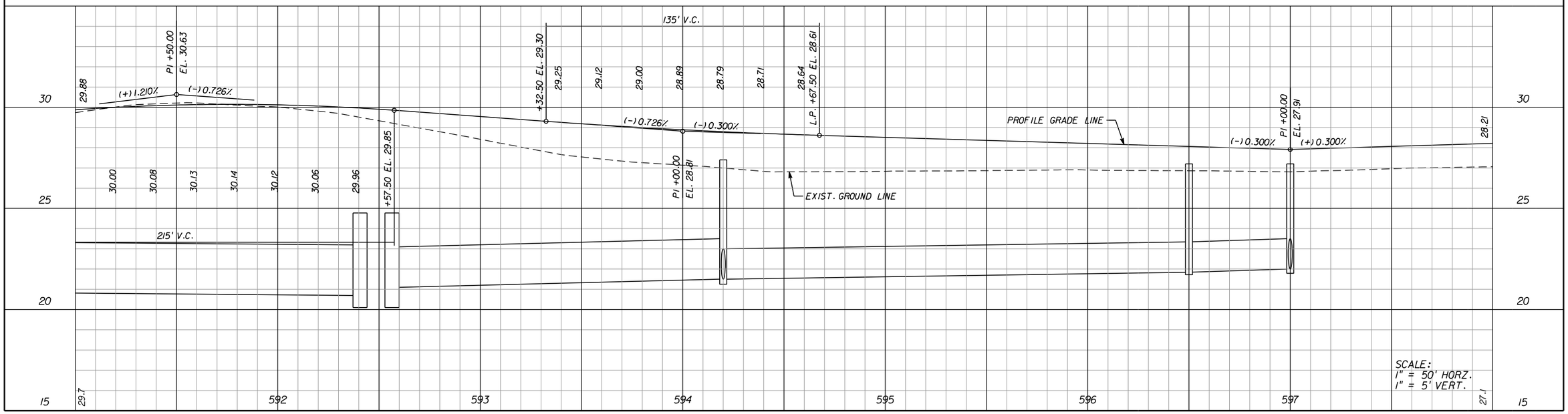
EXIST. OE / TO BE RELOCATED
LCEC

EXIST. BT / PLACE OUT OF SERVICE TO BE REMOVED WHERE ACCESSIBLE
CENTURYLINK

EXIST. OE / TO BE REMOVED
LCEC

EXIST. OE / TO BE RELOCATED
LCEC

0 10 50
Feet



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Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 591+00 TO STA. 598+00

SHEET NO. 258

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd13.dgn

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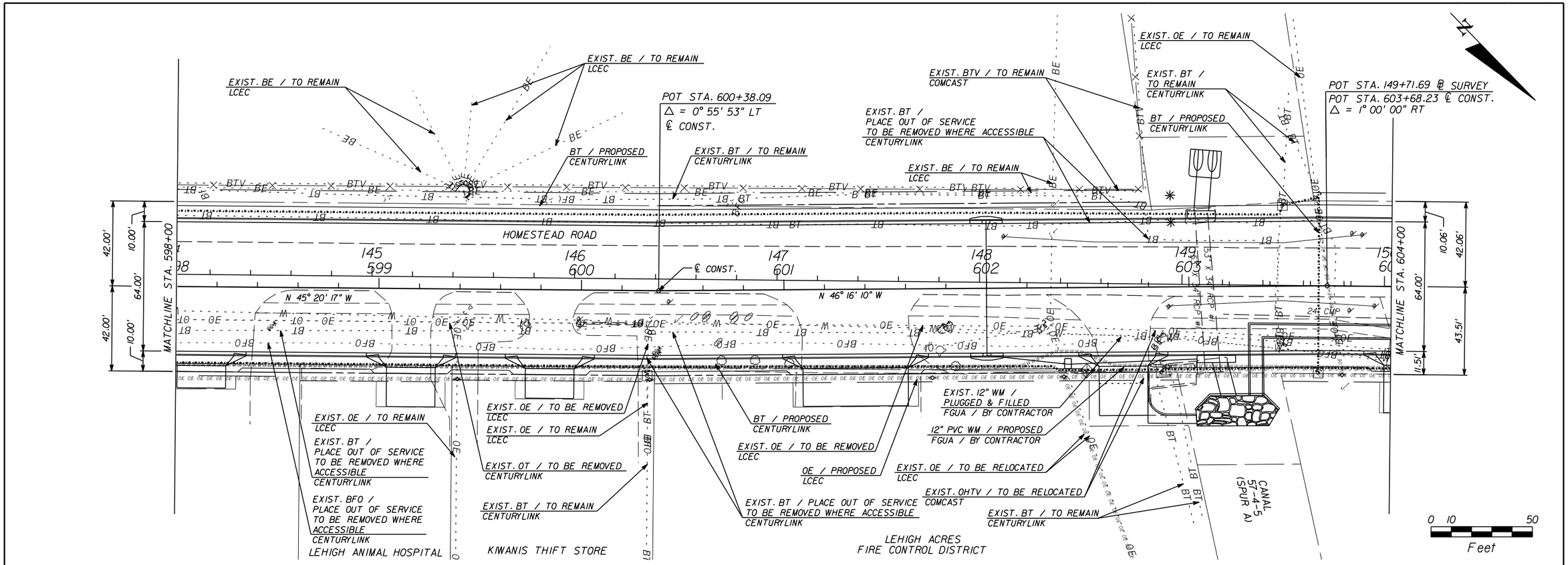

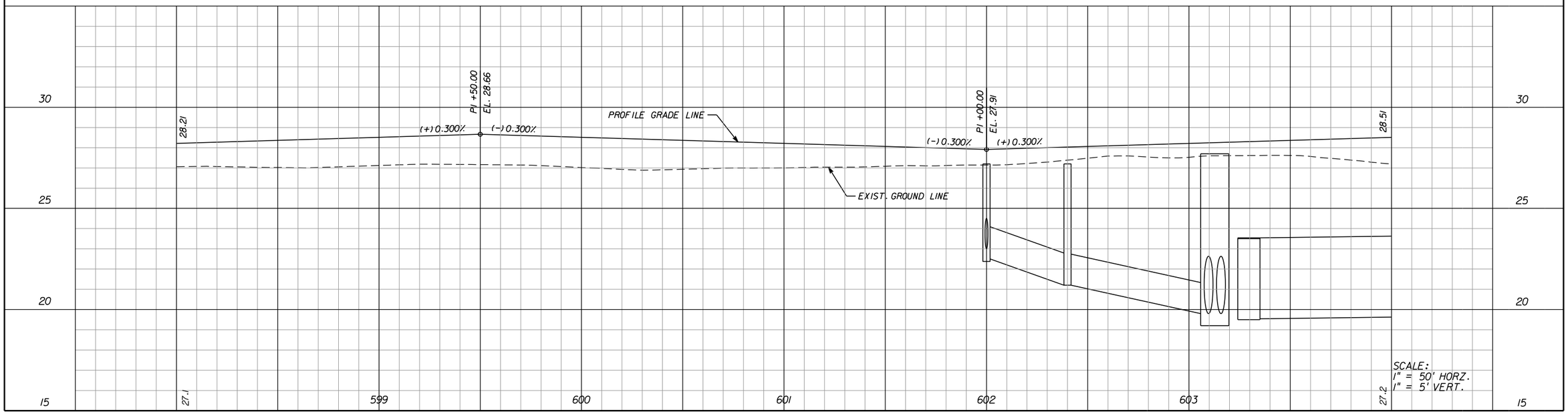

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION

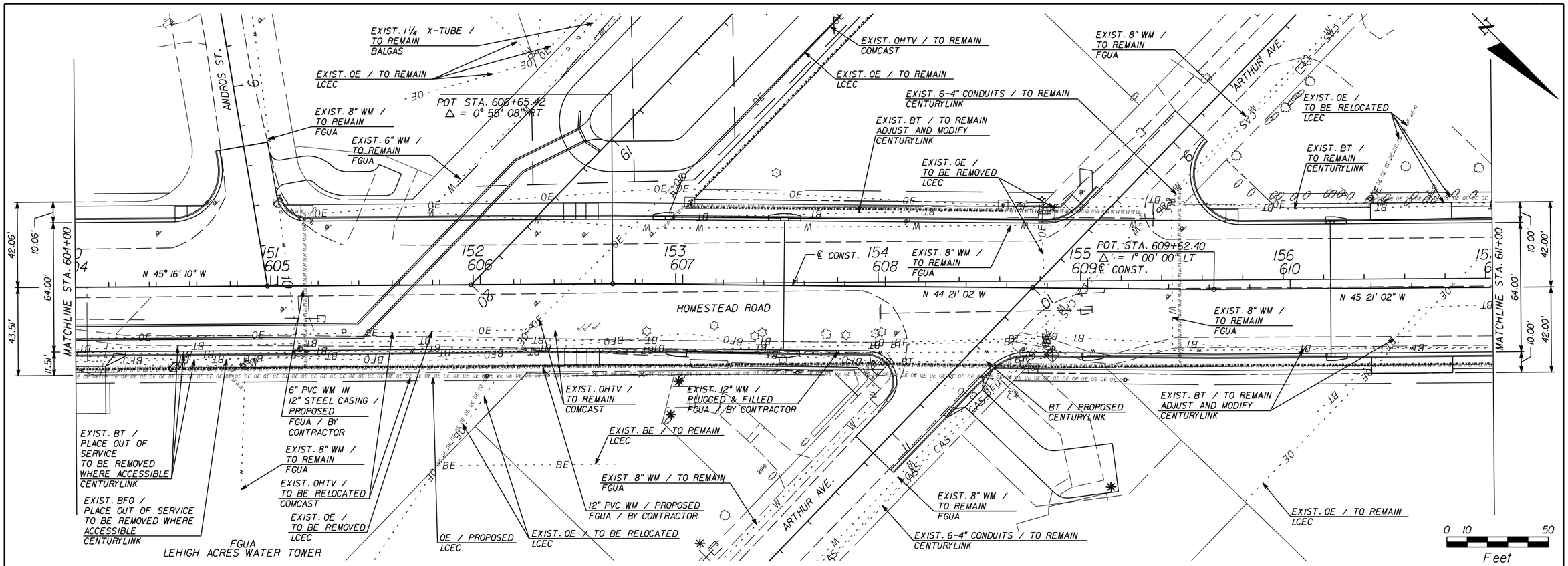
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

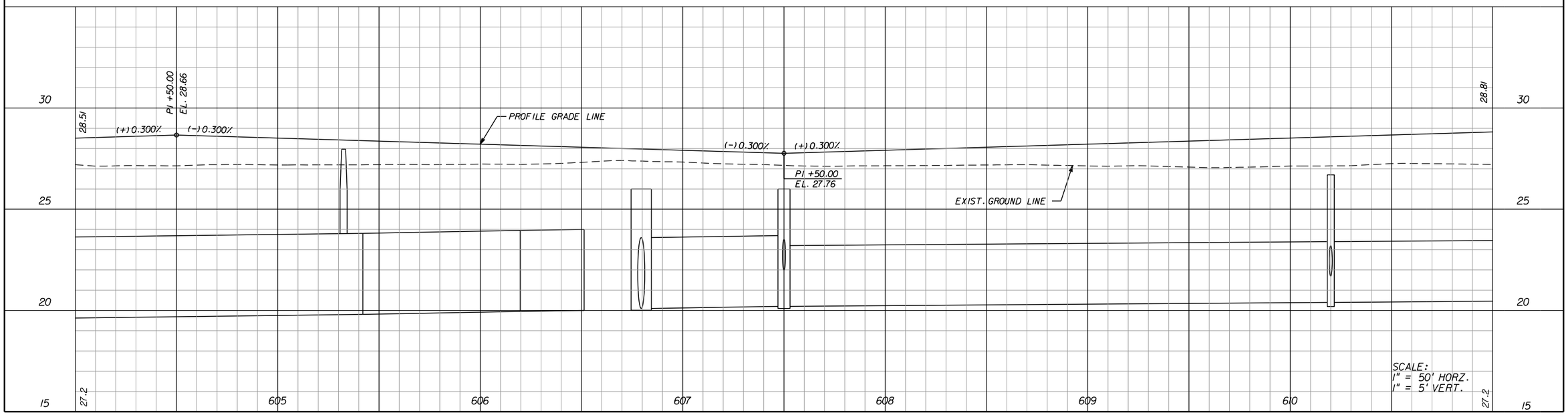
STA. 598+00 TO STA. 604+00

SHEET NO. 259

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd14.dgn

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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2601 Cattlemen Road, Suite 400
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Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 604+00 TO STA. 611+00

SHEET NO. 260

EGILBERT 9/19/2016 PW:\202116\0000000053055\13.00_CAD\Homestead\utils\utadrd15.dgn

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EXIST. OE / TO REMAIN LCEC
EXIST. OHTV / TO BE RELOCATED COMCAST
EXIST. OHTV / TO REMAIN COMCAST
EXIST. OE / TO BE REMOVED LCEC
EXIST. BT / TO REMAIN ADJUST AND MODIFY CENTURYLINK
EXIST. BT / TO REMAIN CENTURYLINK
EXIST. OHTV / TO REMAIN COMCAST
EXIST. OE / TO REMAIN LCEC
EXIST. BE / TO BE REMOVED LCEC
BE / PROPOSED LCEC
EXIST. 4" WM / TO REMAIN FGUA
ADAMS AVE.
24" RCP #2
MIXED CONSTRUCTION
18" RCP #2
EXIST. 8" WM / TO REMOVED FGUA / BY CONTRACTOR
EXIST. BT / TO REMAIN CENTURYLINK
HOMESTEAD ROAD
158 612 | 159 613 | 160 614 | 161 615 | 162 616 | 163 617
MATCHLINE STA. 611+00
MATCHLINE STA. 618+00
42.00' 10.00' 64.00' 10.00' 42.00'
EXIST. 12" WM / PLUGGED & FILLED FGUA / BY CONTRACTOR
18" RCP #2
24" CMP #1
℄ CONST.
N 45° 21' 02" W
18" RCP #2
18" RCP #3
EXIST. OE / TO BE RELOCATED LCEC
OHTV / TO BE RELOCATED COMCAST
EXIST. BE / TO BE REMOVED LCEC
EXIST. 4" WM / TO REMAIN FGUA
EXIST. BE / TO BE REMOVED LCEC
EXIST. BT / TO REMAIN CENTURYLINK
12" PVC WM IN 24" STEEL CASING / PROPOSED FGUA / BY CONTRACTOR
0 10 50
Feet

30 25 20 15

28.81
PI +50.00
EL. 28.96
(+) 0.300%
(-) 0.400%
PROFILE GRADE LINE
EXIST. GROUND LINE
(-) 0.400%
(+) 0.300%
PI +00.00
EL. 27.56
28.46
27.2
27.5

612 613 614 615 616 617

SCALE:
1" = 50' HORZ.
1" = 5' VERT.

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2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

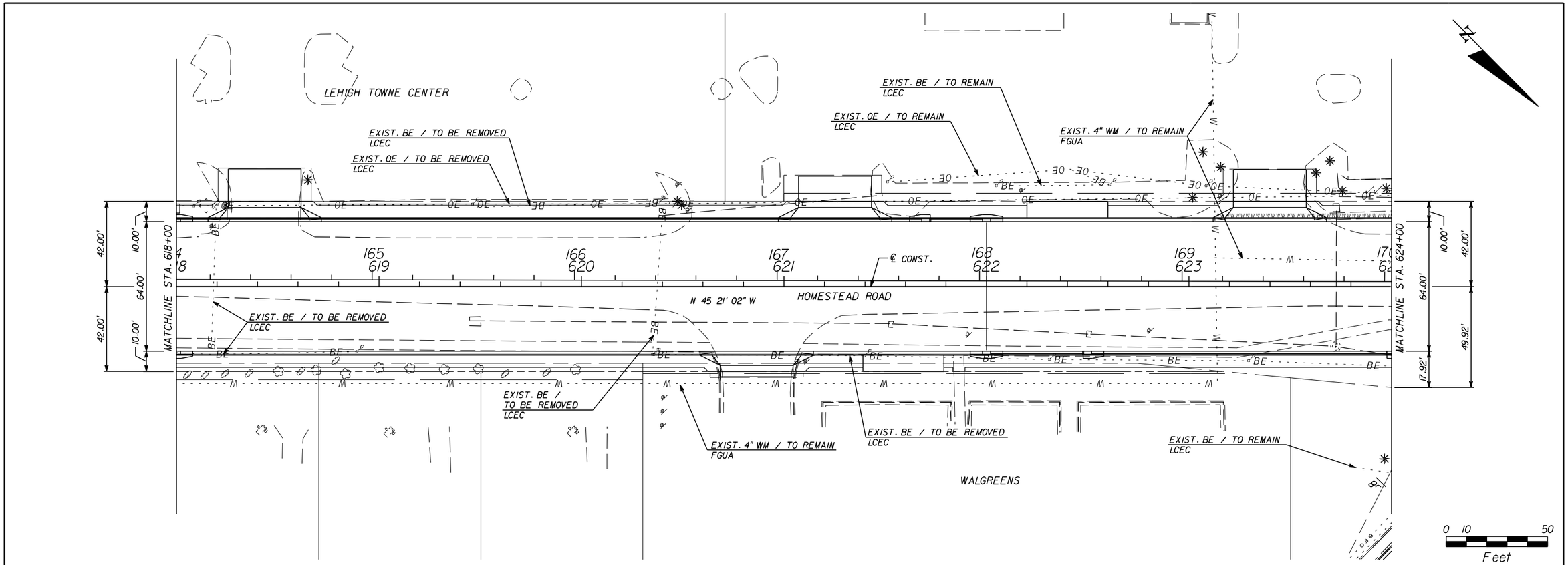
DEPARTMENT of TRANSPORTATION

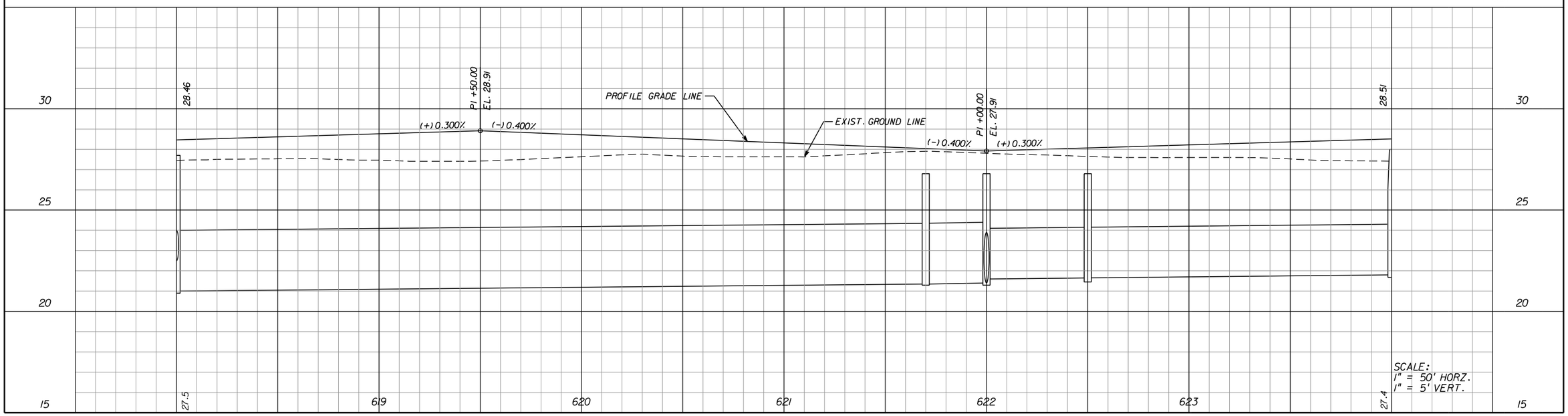
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 611+00 TO STA. 618+00

SHEET NO. 261

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd16.dgn





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 618+00 TO STA. 624+00

SHEET NO. 262

EGILBERT 9/19/2016 PW:\202116\Documents\53055\13.00_CAD\Homestead\utils\utadrd17.dgn

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* SEE INTERCONNECT PLANS FOR PROPOSED SIGNAL CABLE

EXIST. 4 1/2" BFO / TO REMAIN
FP&L FIBERNET

EXIST. 2" GM / TO REMAIN
TECO

EXIST. OE / TO BE RELOCATED
LCEC

EXIST. 8" WM / TO REMAIN
FGUA

EXIST. OE / TO REMAIN
LCEC

EXIST. OHTV / TO REMAIN
COMCAST

EXIST. 12" FM / TO REMAIN
FGUA

EXIST. SYNC CABLE / TO BE REMOVED *
LEE COUNTY SIGNAL DEPT.

EXIST. OE / TO REMAIN
LCEC

EXIST. 2" GM / TO REMAIN
TECO

EXIST. BT / TO REMAIN
ADJUST AND MODIFY
CENTURYLINK

EXIST. BTV / TO REMAIN
COMCAST

EXIST. BFO / TO REMAIN
CENTURYLINK

EXIST. OE / TO REMAIN
LCEC

EXIST. 12" FM / TO REMAIN
FGUA

EXIST. OHTV / TO REMAIN
COMCAST

EXIST. OE / TO REMAIN
LCEC

12" FM / PROPOSED
FGUA / BY CONTRACTOR

EXIST. 4" WM / TO REMAIN
FGUA

POT STA. 629+10.32
Δ = 1°00'00" LT
℄ CONST.

POT STA. 630+10.33
Δ = 00° 58' 31" RT
℄ CONST.

℄ CONST.

N 45 21' 02" W

HOMESTEAD ROAD

N 45 38' 00" W

N 45 15' 31" W

EXIST. 12" FM / REMOVE
FGUA / BY CONTRACTOR

EXIST. 16" WM / TO REMAIN
FGUA

EXIST. BFO / TO REMAIN
ADJUST AND MODIFY
CENTURYLINK

EXIST. 8" WM / TO REMAIN
FGUA

EXIST. BFO / TO REMAIN
CENTURYLINK

EXIST. OE/ TO REMAIN
LCEC

EXIST. 8" WM / TO REMAIN
FGUA

EXIST. BE TO REMAIN
LCEC

EXIST. 12" FM / TO REMAIN
FGUA

EXIST. 12" FM / TO REMAIN
FGUA

EXIST. SYNC CABLE / TO BE REMOVED *
LEE COUNTY SIGNAL DEPT.

EXIST. OE / TO REMAIN
LCEC

PC STA. 10+78.82

EXIST. OE / TO BE RELOCATED
LCEC

EXIST. BT / TO REMAIN
CENTURYLINK

EXIST. OE / TO REMAIN
LCEC

EXIST. 8" WM / TO REMAIN
FGUA

EXIST. BE / TO REMAIN
LCEC

END CONST. SB LANES
BEGIN MILLING &
RESURFACE SB LANES
STA. 630+64.73

ALABAMA RD.

LEELAND HEIGHTS BLVD.

DELAWARE RD.

WESTMINSTER ST.

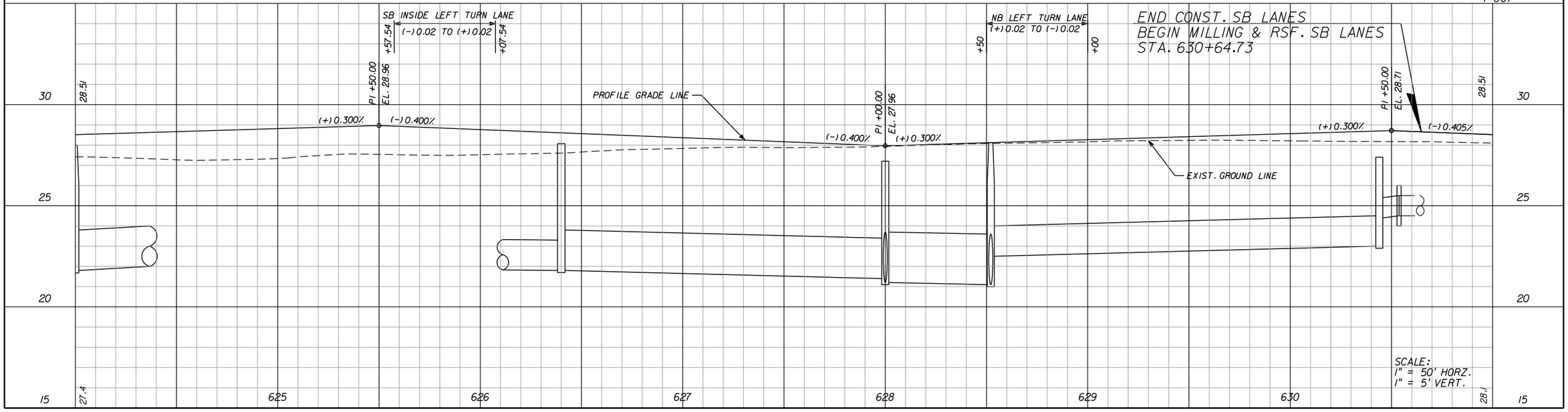
PT STA. 9+13.29

MATCHLINE STA. 624+00

MATCHLINE STA. 631+00

42.00'
10.00'
64.00'
49.92'
17.92'
11.43'
40.22'
36.35'
2'
22.00'
40.83'
9.26'

0 10 50
Feet



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
P.E. License Number 70170
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

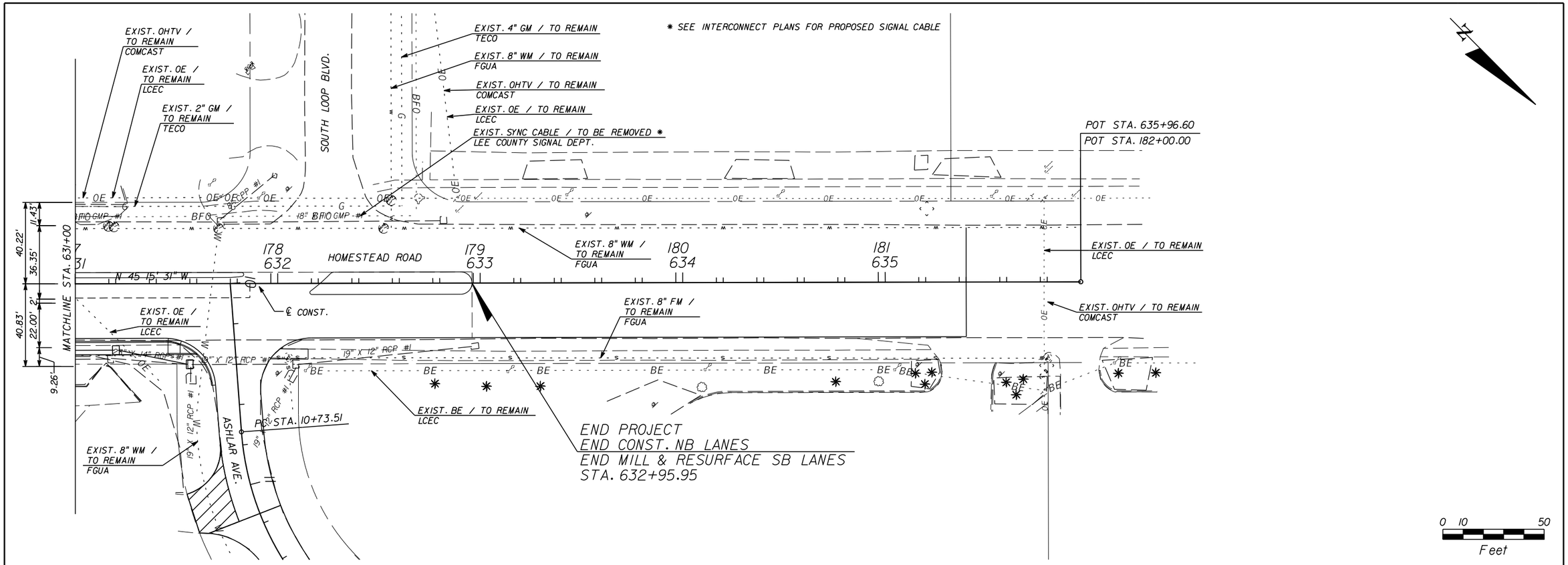
DEPARTMENT of TRANSPORTATION

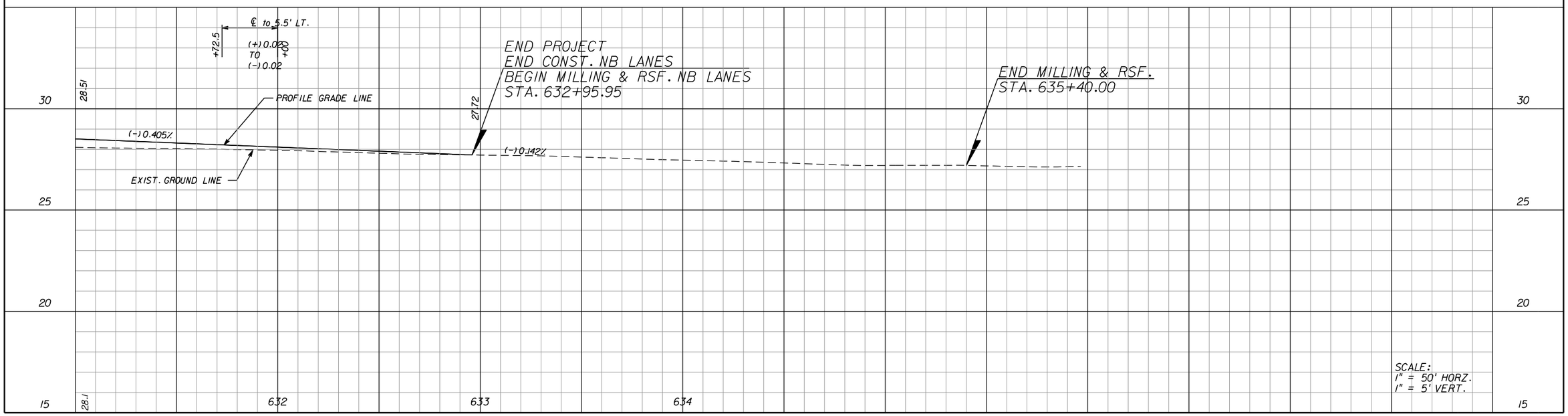
UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD

STA. 624+00 TO STA. 631+00

SHEET NO. 263

EGILBERT 9/19/2016 PW:\202116\Documents\053055\13.00_CAD\Homestead\utils\utadrd18.dgn





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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
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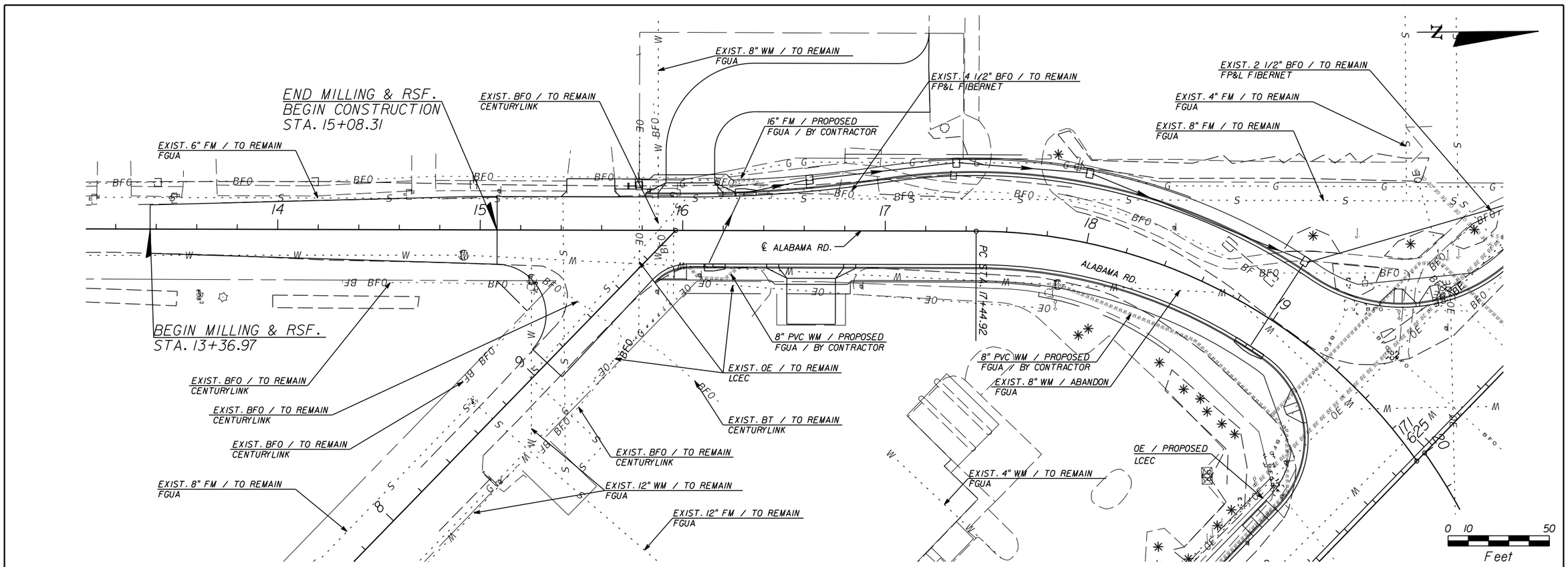
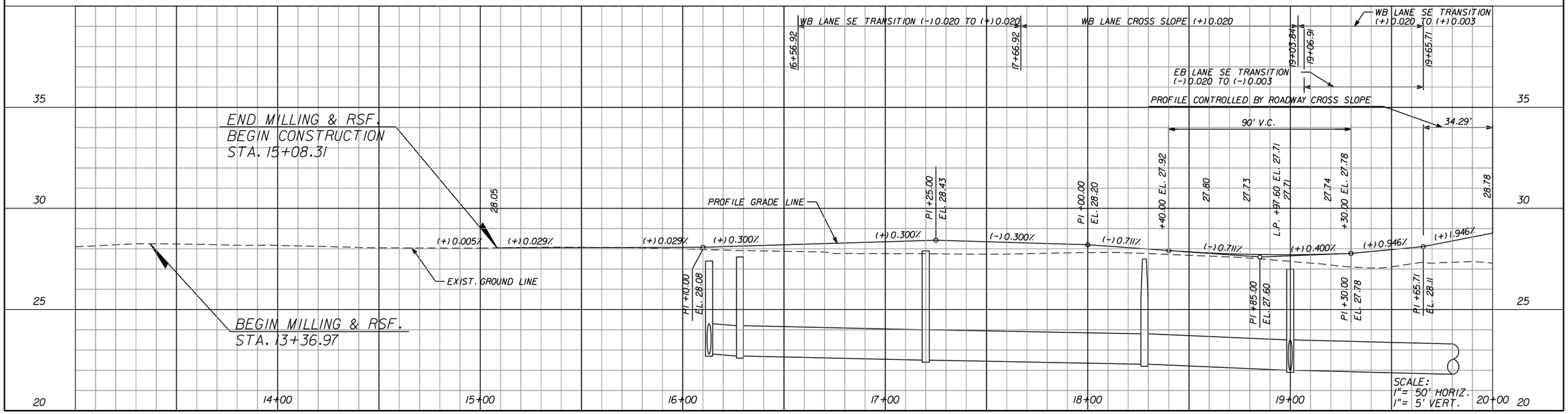
PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

UTILITY ADJUSTMENT SHEETS
HOMESTEAD ROAD
STA. 631+00 TO STA. 632+95.95

SHEET NO. 264

EGILBERT 9/19/2016 PW:\202116\D0053055\13.00_CAD\Homestead\utils\utadrd19.dgn





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jason L. Starr, P.E.
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LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

UTILITY ADJUSTMENT SHEET
ALABAMA RD.

STA. 13+36.97 TO STA. 20+00.00

SHEET NO. 265

EGILBERT 9/19/2016 PW:\202116\100000053055\13.00_CAD\Homestead\utils\utadrd20.dgn

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EXIST. 25 BT / TO REMAIN ADJUST AND MODIFY EMBARQ

EXIST. 6" WM / TO REMAIN FGUA

END CONSTRUCTION EB LANES MATCH EXISTING STA. 22+89.92

EXIST. 4 1/2" BFO / TO REMAIN FP&L FIBERNET

EXIST. 12" FM / TO REMAIN FGUA

EXIST. 10" WM / TO REMAIN FGUA

EXIST. 16" WM / TO REMAIN FGUA

END CONSTRUCTION WB LANES MATCH EXISTING STA. 26+65.58

LEELAND HEIGHTS BLVD.

21 22 23 24 25 26 27

℄ LEELAND HEIGHTS BLVD.

PT STA 21+59.58

EXIST. OE / TO REMAIN LCEC

EXIST. SYNC CABLE / TO BE REMOVED * LEE COUNTY SIGNAL DEPT.

EXIST. OE / TO BE REMOVED LCEC

EXIST. 4" FM / TO REMAIN FGUA

EXIST. 8" WM / TO REMAIN FGUA

EXIST. SYNC CABLE / TO BE REMOVED * LEE COUNTY SIGNAL DEPT.

END MILLING & RSF. EB LANES STA. 25+00.00

* SEE INTERCONNECT PLANS FOR PROPOSED SIGNAL CABLE

0 10 50 Feet

N

SEE INTERSECTION DETAIL SHEET

WB LANE SE TRANSITION (+)0.003 TO (+)0.020

EB LANE (+)0.003 TO (+)0.020

WB OUTSIDE LANES CROSS SLOPE (+)0.020

WB INSIDE 2 LANES CROSS SLOPE (+)0.020

WB INSIDE 2 LANES TRANSITION (+)0.020 TO (-)0.020

20+35.11 20+69.40 20+71.32 21+06.27 21+41.98 22+29.98

PROFILE CONTROLLED BY ROADWAY CROSS SLOPE

35.11'

28.80 (-)2.01% (-)1.01% (-)0.30% (+)0.30% (+)0.30% (+)0.30% (-)0.45% (+)0.30% (+)0.30% (-)0.69% (-)0.11%

PROFILE GRADE LINE

EXIST. GROUND LINE

PI +35.11 EL. 28.09

PI +75.00 EL. 27.69

PI +25.00 EL. 27.54

PI +50.00 EL. 27.92

PI +89.92 EL. 27.74

PI +25.00 EL. 28.44

27.47

END CONSTRUCTION BEGIN MILLING & RSF. EB LANES STA. 22+89.92

END MILLING & RSF. EB LANES STA. 25+00.00

END CONSTRUCTION WB LANES MATCH EXISTING STA. 26+65.58

EXIST. GROUND LINE AT EOP OF WESTBOUND LANES

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

35 30 25 20

20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION

UTILITY ADJUSTMENT SHEET
LEELAND HEIGHTS BLVD.

STA. 20+00.00 TO STA. 26+65.58

SHEET NO. 266

EGILBERT 9/19/2016 PW:\202116\Projects\53055\13.00_CAD\Homestead\utils\utadrd21.dgn

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LEE COUNTY BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

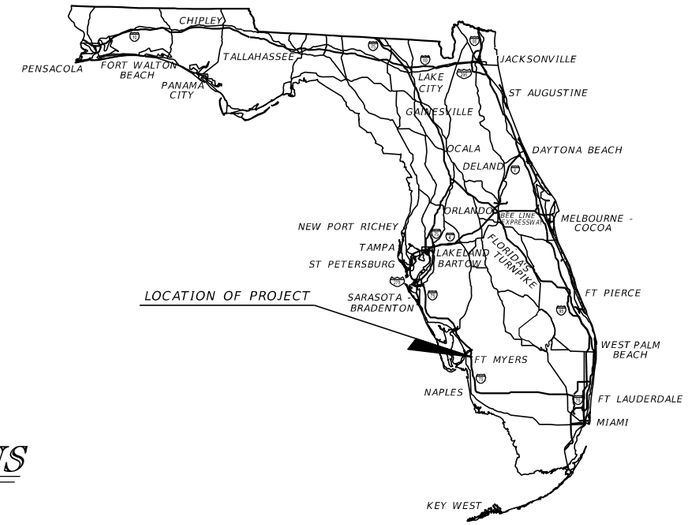
PLANS OF PROPOSED

HOMESTEAD ROAD WIDENING

LEE COUNTY

PROJECT NO. 5063

SIGNING AND PAVEMENT MARKING PLANS



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2 - S-5	TABULATION OF QUANTITIES
S-6	PROJECT NOTES
S-7 - S-17	SIGNING AND PAVEMENT MARKING PLAN
S-18	GUIDE SIGN WORKSHEET
S-19 - S-21	SIGN CROSS SECTIONS
S-22	STANDARD MAST ARM ASSEMBLIES DATA TABLE
S-23	CANTILEVER STRUCTURES BORINGS

SIGNING & PAVEMENT MARKING SHOP DRAWINGS TO BE SUBMITTED TO:

Bijan Behzadi, P.E.
HDR Engineering, Inc.
5426 Bay Center Drive, Suite 400
Tampa, FL 33609-3444

PLANS PREPARED BY:

HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213
Vendor No. 47-0680568
Contract No. 3806

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

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:
LIST OF DEVIATIONS: NONE

SIGNING AND PAVEMENT MARKING PLANS ENGINEER OF RECORD: BIJAN BEHZADI, PE

P.E. NO.: 43868

DATE: _____

KEY SHEET REVISIONS	
DATE	DESCRIPTION

DEVELOPMENT ORDER APPROVED:
LEE COUNTY PUBLIC WORKS ADMINISTRATOR
DIRECTOR, P W TRANSPORTATION:

DAVID LOVELAND

DATE: _____

SHEET NO.

S-1

LEE COUNTY PROJECT MANAGER: SARAH CLARKE

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-7		S-8		S-9		S-10		S-11		S-12		S-13		S-14		S-15		S-16						
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
649-31-201	MAST ARM, WIND SPEED- 130 MPH, SINGLE ARM	EA															2						2				
	WITHOUT LUMINAIRE, 36'																										
700-1-11	SINGLE POST SIGN (F&I) (GROUND MOUNT) (< 12 SF)	AS	1		9		8		3		6		19		10		17		16		2		91				
700-1-12	SINGLE POST SIGN (F&I) (GROUND MOUNT) (12-20 SF)	AS					2				2										2		6				
700-1-60	SINGLE POST SIGN, REMOVE	AS									1												1				
700-2-14	MULTI POST SIGN (F&I) (31-50 SF)	AS															1				1		2				
700-3-204	SIGN PANEL (F&I) OVERHEAD MOUNT, 31-50 SF	EA															2						2				
700-12-21	SIGN BEACON (F&I GROUND MOUNT SOLAR POWERED) (ONE BEACON)	AS											4										4				
700-12-31	SIGN BEACON (F&I OVERHEAD) (ONE BEACON)	AS															2						2				
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	EA																									
	YELLOW/GREEN						2		1		1		1								1		6				
	WHITE								1		1												2				
710-11-190	PAINTED PAVEMENT MARKING, REFLECTIVE WHITE	SF							6		6												12				
710-11-290	PAINTED PAVEMENT MARKING, REFLECTIVE YELLOW	SF			30		22		6		70		50						12		26		216				
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS																									
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 6"	GM	0.388		0.530		0.659		0.545		0.693		0.620		0.554		0.548		0.721		0.099		5.357				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 8"	GM							0.091		0.007								0.062				0.160				
	FOR INTERCHANGE AND URBAN ISLAND																										
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 12"	LF					270				511		435		136		736		795		86		2969				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 18"	LF							146		16												162				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 24"	LF					190				337		517		170		500		981		57		2752				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD,	GM																									
	6" SKIP-2'/4' DOTTED GUIDELINE																		0.036				0.036				
	6" SKIP-6'/10' DOTTED GUIDELINE						0.021		0.044		0.032		0.016		0.016				0.064				0.193				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD	GM			0.271		0.530		0.530		0.557		0.434		0.526		0.527		0.434		0.074		3.883				
	6" SKIP (10'/30')																										
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, MESSAGE	EA																									
	MERGE				3																		3				
*	ONLY						1												2		1		4				
	SCHOOL												4		2		2						8				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, ARROW	EA																									
	LEFT						5		3		7		3		8		8		18		1		53				
	MERGE				3																		3				
	RIGHT						1												3		1		5				
	THRU/RIGHT										2												2				
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD, SOLID 6"	GM	0.627		0.738		0.282		0.525		0.590		0.544		0.565		0.648		0.577		0.093		5.189				
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD, SOLID 8"	GM																									
	FOR INTERCHANGE AND URBAN ISLAND																										
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD, SOLID 18"	LF	306		752		20				126		106		76				111		70		1567				
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD,	GM																									
	6" SKIP-2'/4' DOTTED GUIDELINE								0.010		0.011								0.044		0.006		0.071				
	6" SKIP-6'/10' DOTTED GUIDELINE						0.053				0.066												0.119				
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD	GM	0.068												0.374		0.527		0.147				1.116				
	6" SKIP (10'/30')																										
*	RETRO-REFLECTIVE PAVEMENT MARKERS	EA																									
	WHITE/RED				35		96		114		98		83		69		70		115		13		693				
	YELLOW/YELLOW		113		76		10				40		16		132		176		132		8		703				
711-11-123	SOLID TRAFFIC STRIPE (12") - WHITE, THRMPLSTC	LF					270				511		435		136		736		795		86		2969				
711-11-124	SOLID TRAFFIC STRIPE (18") - WHITE, THRMPLSTC	LF							146		16												162				
711-11-125	SOLID TRAFFIC STRIPE (24") - WHITE, THRMPLSTC	LF					58				91		177		105		120		199		16		766				
711-11-141	DOTTED/GUIDELINE/6-10 GAP EXTENSION	GM																									
	6" (2'/4'), WHITE, THERMOPLASTIC STANDARD																		0.036				0.036				
	6" (6'/10'), WHITE, THERMOPLASTIC STANDARD						0.021		0.044		0.032		0.016		0.016				0.064				0.193				
711-11-160	STANDARD, WHITE, MESSAGE	EA																									
	MERGE				3																		3				
	ONLY						1												2		1		4				
	SCHOOL												4		2		2						8				

*THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM-ITEM 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Bijan Behzadi, P.E.
P.E. License Number 43868
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

TABULATION OF QUANTITIES
HOMESTEAD ROAD

SHEET NO. S-2

CROCKSWO 9/15/2016 11:33:43 AM W:\202116\000000000053055\Homestead\signing\tabqsp01.dgn

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
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			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
711-11-170	STANDARD, WHITE, ARROW	EA																									
	LEFT						5		3		7		3		8		8		18		1		53				
	MERGE				3																		3				
	RIGHT						1												3		1		5				
	THRU/RIGHT										2												2				
711-11-224	SOLID TRAFFIC STRIPE (18") - YELLOW, THRMPLSTC	LF	306		752		20				126		106		76				111		70		1567				
711-11-241	DOTTED/GUIDELINE/6-10 GAP EXTENSION	GM																									
	6" (2'/4'), YELLOW, THERMOPLASTIC STANDARD								0.010		0.011								0.044		0.006		0.071				
	6" (6'/10'), YELLOW, THERMOPLASTIC STANDARD						0.053				0.066												0.119				
711-14-125	SOLID TRAFFIC STRIPE (24") - WHITE,	LF					132				246		340		65		380		782		41		1986				
	THRMPLSTC. PREFORMED																										
711-14-160	THERMOPLASTIC MESSAGE, PREFORMED	EA			3		5		2		6		4		3		10		2				35				
	BIKE SYMBOL																										
711-14-170	THERMOPLASTIC ARROW, PREFORMED	EA			3		5		2		6		4		3		10		2				35				
	BIKE THRU ARROW																										
711-16-101	SOLID TRAFFIC STRIPE (6") - WHITE, THERMOPLASTIC	GM	0.388		0.530		0.659		0.545		0.693		0.620		0.554		0.548		0.721		0.099		5.357				
	DENSE-GRADED																										
711-16-102	SOLID TRAFFIC STRIPE (8") - WHITE, THERMOPLASTIC	GM							0.091		0.007								0.062				0.160				
	DENSE-GRADED																										
711-16-131	SKIP TRAFFIC STRIPE (6") - WHITE	GM			0.271		0.530		0.530		0.557		0.434		0.526		0.527		0.434		0.074		3.883				
	THERMOPLASTIC (10'/30') DENSE-GRADED																										
711-16-201	SOLID TRAFFIC STRIPE (6") - YELLOW, THERMOPLASTIC	GM	0.627		0.738		0.282		0.525		0.590		0.544		0.565		0.648		0.577		0.093		5.189				
	DENSE-GRADED																										
711-16-202	SOLID TRAFFIC STRIPE (8") - YELLOW, THERMOPLASTIC	GM																									
	DENSE-GRADED																										
711-16-231	SKIP TRAFFIC STRIPE (6") - YELLOW	GM	0.068												0.374		0.527		0.147				1.116				
	THERMOPLASTIC (10'/30') DENSE-GRADED																										

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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LEE COUNTY
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FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION

CROCKSWO

TABULATION OF QUANTITIES
HOMESTEAD ROAD

SHEET NO. S-3

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS S-17 PLAN	S-17 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL	REF. SHEET
649-31-201	MAST ARM, WIND SPEED- 130 MPH, SINGLE ARM	EA					2		
	WITHOUT LUMINAIRE, 36'								
700-1-11	SINGLE POST SIGN (F&I) (GROUND MOUNT) (< 12 SF)	AS	9		9		100		
700-1-12	SINGLE POST SIGN (F&I) (GROUND MOUNT) (12-20 SF)	AS	2		2		8		
700-1-60	SINGLE POST SIGN, REMOVE	AS					1		
700-2-14	MULTI POST SIGN (F&I) (31-50 SF)	AS					2		
700-3-204	SIGN PANEL (F&I) OVERHEAD MOUNT, 31-50 SF	EA					2		
700-12-21	SIGN BEACON (F&I GROUND MOUNT SOLAR POWERED) (ONE BEACON)	AS					4		
700-12-31	SIGN BEACON (F&I OVERHEAD) (ONE BEACON)	AS					2		
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	EA					8		
	YELLOW/GREEN								
	WHITE								
710-11-190	PAINTED PAVEMENT MARKING, REFLECTIVE WHITE	SF					12		
710-11-290	PAINTED PAVEMENT MARKING, REFLECTIVE YELLOW	SF					216		
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS					1		
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 6"	GM	0.546		1		5.903		
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 8"	GM	0.075		0		0.235		
	FOR INTERCHANGE AND URBAN ISLAND								
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 12"	LF	166		166		3135		
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 18"	LF					162		
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, SOLID 24"	LF	138		138		2890		
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD,	GM					0.261		
	6" SKIP-2'/4' DOTTED GUIDELINE								
	6" SKIP-6'/10' DOTTED GUIDELINE		0.032		0.032				
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD	GM	0.108		0.108		3.991		
	6" SKIP (10'/30')								
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, MESSAGE	EA					22		
	MERGE								
*	ONLY		7		7				
	SCHOOL								
*	PAINTED PAVEMENT MARKINGS- WHITE, STANDARD, ARROW	EA					78		
	LEFT		9		9				
	MERGE								
	RIGHT		6		6				
	THRU/RIGHT								
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD, SOLID 6"	GM	0.480		0.480		5.669		
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD, SOLID 8"	GM	0.041		0.041		0.041		
	FOR INTERCHANGE AND URBAN ISLAND								
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD, SOLID 18"	LF	96		96		1663		
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD,	GM					0.190		
	6" SKIP-2'/4' DOTTED GUIDELINE								
	6" SKIP-6'/10' DOTTED GUIDELINE								
*	PAINTED PAVEMENT MARKINGS- YELLOW, STANDARD	GM	0.041		0.041		1.157		
	6" SKIP (10'/30')								
*	RETRO-REFLECTIVE PAVEMENT MARKERS	EA					1556		
	WHITE/RED		63		63				
	YELLOW/YELLOW		97		97				
711-11-123	SOLID TRAFFIC STRIPE (12") - WHITE, THRMPLSTC	LF	166		166		3135		
711-11-124	SOLID TRAFFIC STRIPE (18") - WHITE, THRMPLSTC	LF					162		
711-11-125	SOLID TRAFFIC STRIPE (24") - WHITE, THRMPLSTC	LF	42		42		808		
711-11-141	DOTTED/GUIDELINE/6-10 GAP EXTENSION	GM					0.261		
	6" (2'/4'), WHITE, THERMOPLASTIC STANDARD								
	6" (6'/10'), WHITE, THERMOPLASTIC STANDARD		0.032		0.032				
711-11-160	STANDARD, WHITE, MESSAGE	EA					22		
	MERGE								
	ONLY		7		7				
	SCHOOL								

*THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM-ITEM 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

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REVISIONS

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DEPARTMENT of TRANSPORTATION

TABULATION OF QUANTITIES
HOMESTEAD ROAD

SHEET NO. S-4

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS S-17 PLAN	S-17 FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL	REF. SHEET
711-11-170	STANDARD, WHITE, ARROW	EA					78		
	LEFT		9		9				
	MERGE								
	RIGHT		6		6				
	THRU/RIGHT								
711-11-224	SOLID TRAFFIC STRIPE (18") - YELLOW, THRMPLSTC	LF	96		96		1663		
711-11-241	DOTTED/GUIDELINE/6-10 GAP EXTENSION	GM					0.190		
	6" (2'/4'), YELLOW, THERMOPLASTIC STANDARD								
	6" (6'/10'), YELLOW, THERMOPLASTIC STANDARD								
711-14-125	SOLID TRAFFIC STRIPE (24") - WHITE,	LF	96		96		2082		
	THRMPLSTC. PREFORMED								
711-14-160	THERMOPLASTIC MESSAGE, PREFORMED	EA					35		
	BIKE SYMBOL								
711-14-170	THERMOPLASTIC ARROW, PREFORMED	EA					35		
	BIKE THRU ARROW								
711-16-101	SOLID TRAFFIC STRIPE (6") - WHITE, THERMOPLASTIC	GM	0.546		0.546		5.903		
	DENSE-GRADED								
711-16-102	SOLID TRAFFIC STRIPE (8") - WHITE, THERMOPLASTIC	GM	0.075		0.075		0.235		
	DENSE-GRADED								
711-16-131	SKIP TRAFFIC STRIPE (6") - WHITE	GM	0.108		0.108		3.991		
	THERMOPLASTIC (10'/30') DENSE-GRADED								
711-16-201	SOLID TRAFFIC STRIPE (6") - YELLOW, THERMOPLASTIC	GM	0.480		0.480		5.669		
	DENSE-GRADED								
711-16-202	SOLID TRAFFIC STRIPE (8") - YELLOW, THERMOPLASTIC	GM	0.041		0.041		0.041		
	DENSE-GRADED								
711-16-231	SKIP TRAFFIC STRIPE (6") - YELLOW	GM	0.041		0.041		1.157		
	THERMOPLASTIC (10'/30') DENSE-GRADED								

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CROCKSWO

TABULATION OF QUANTITIES
HOMESTEAD ROAD

SHEET NO. S-5

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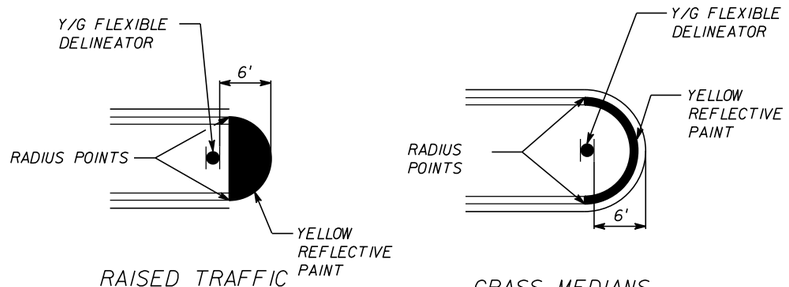
SIGNING AND PAVEMENT MARKING PROJECT NOTES:

1. ALL EXISTING ROADWAY SIGNS NOT LOCATED ON THESE PLANS WILL BE REMOVED AND PAID FOR AS PART OF CLEARING AND GRUBBING EXCEPT THOSE NOTED TO REMAIN. ALL SIGNS AND SUPPORTS TO BE REMOVED FROM THE PROJECT LIMITS SHALL BECOME THE PROPERTY OF LEE COUNTY TRANSPORTATION DEPARTMENT AND SHALL BE DELIVERED BY THE CONTRACTOR TO LEE COUNTY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOT USE LOW PROFILE RETRO REFLECTIVE PAVEMENT MARKERS.
4. CONTRACTOR SHALL USE U-CHANNEL GALVANIZED STEEL 2 LB/LF FOR ALL SINGLE AND W-SHAPED STEEL FOR MULTI-POST SIGNS.
5. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL CROSSWALKS ACROSS MAJOR STREET ARE TEN FEET (10') IN WIDTH AND ALL CROSSWALKS ACROSS SIDE STREET ARE SIX FEET (6') IN WIDTH. MEASUREMENTS ARE FROM INSIDE TO INSIDE OF 12 INCH STRIPES.
6. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF INSTALLATION, THE INSTALLING FIRM'S NAME AND THE PROJECT NUMBER AT THE BOTTOM IN 3" LETTERS.
7. TEMPORARY CONSTRUCTION SIGNS SHALL NOT OBSTRUCT OTHER ROAD SIGNS.

PAY ITEM NOTES:

700-12-31:
SHALL INCLUDE FLASHING BEACON, RTC MANUFACTURING AC SCHOOL FLASHER CABINET (RTC PART NUMBER 502564), AND RTC MANUFACTURING AP 22 TIME SWITCH.



MEDIAN NOSE PAINT DETAILS
N.T.S

LEGEND
MILLING & RESURFACING

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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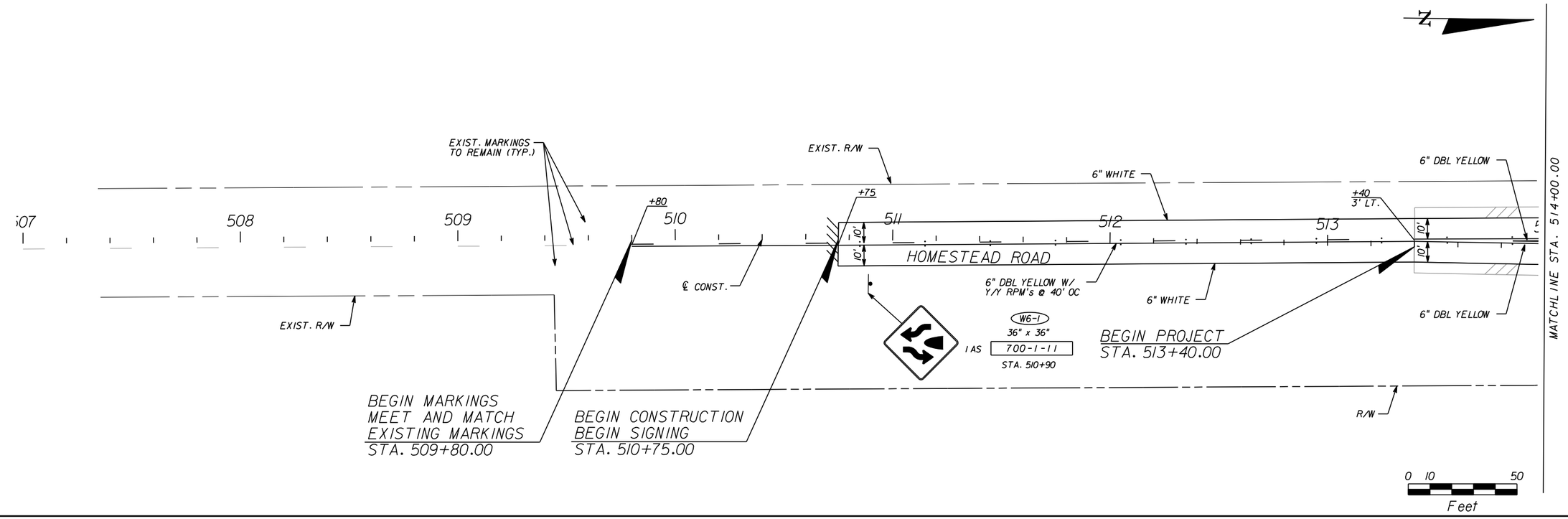
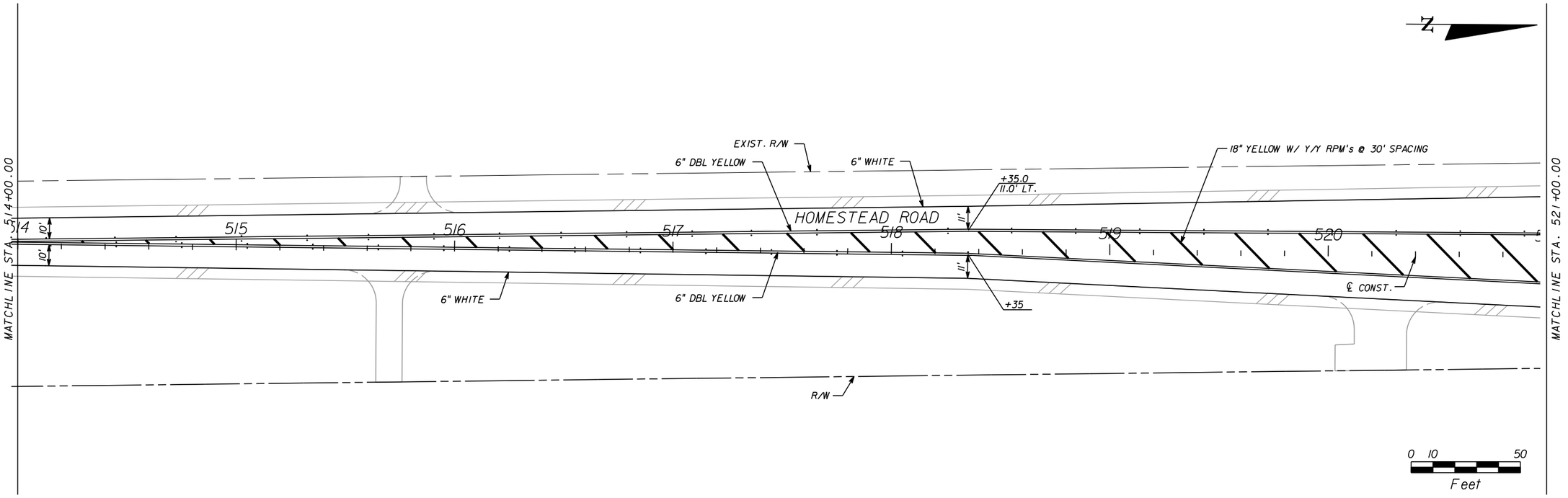
DEPARTMENT of TRANSPORTATION

SIGNING & PAVEMENT MARKING
HOMESTEAD ROAD

PROJECT NOTES

SHEET NO.
S-6





REVISIONS					
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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROCKSW0

SIGNING & PAVEMENT MARKING PLAN HOMESTEAD ROAD

STA. 507+00.00 TO STA. 521+00.00

SHEET NO. S-7

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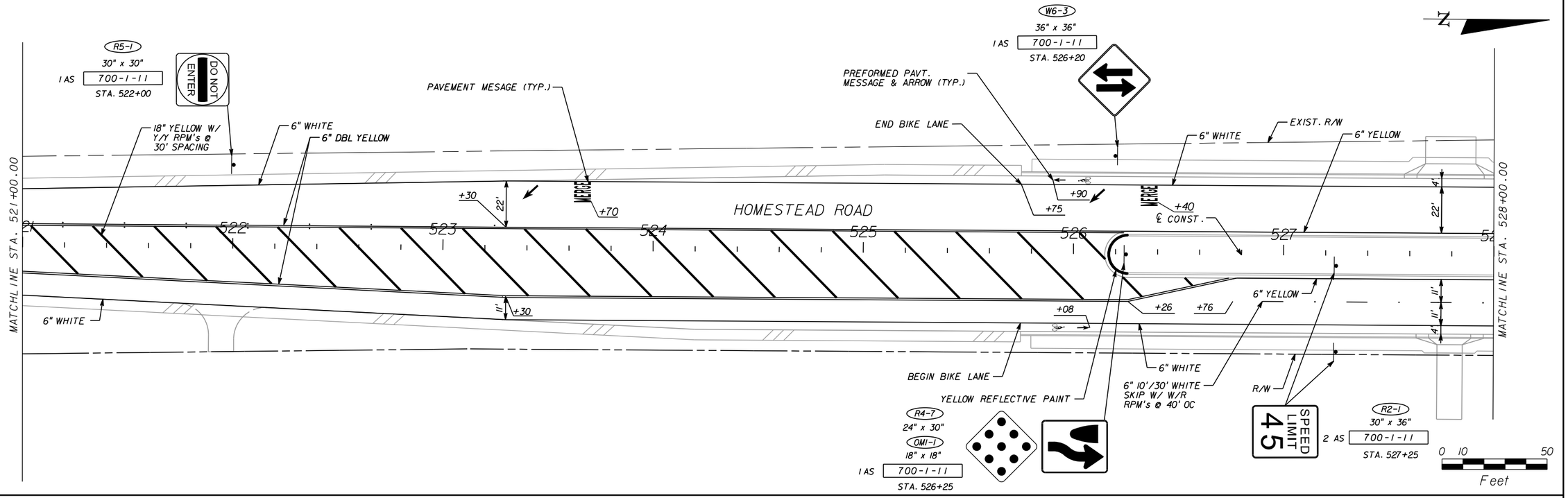

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DEPARTMENT of TRANSPORTATION

CROCKSWO

SIGNING & PAVEMENT MARKING PLAN
HOMESTEAD ROAD

STA. 521+00.00 TO STA. 535+00.00

SHEET NO. S-8

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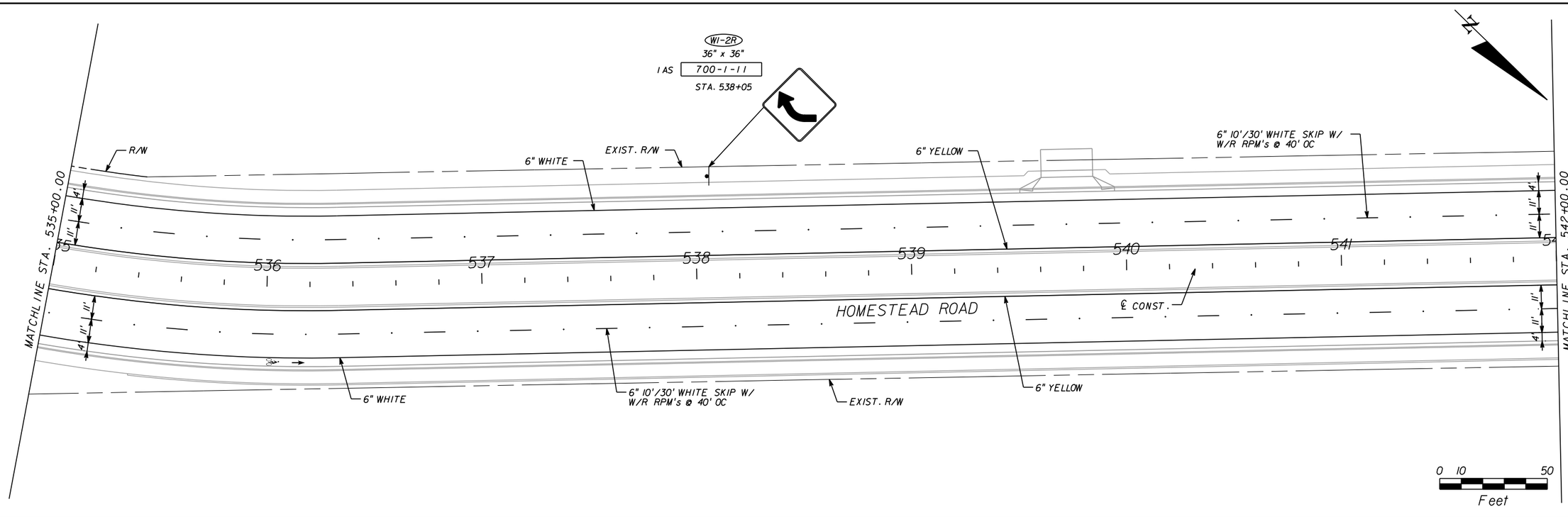

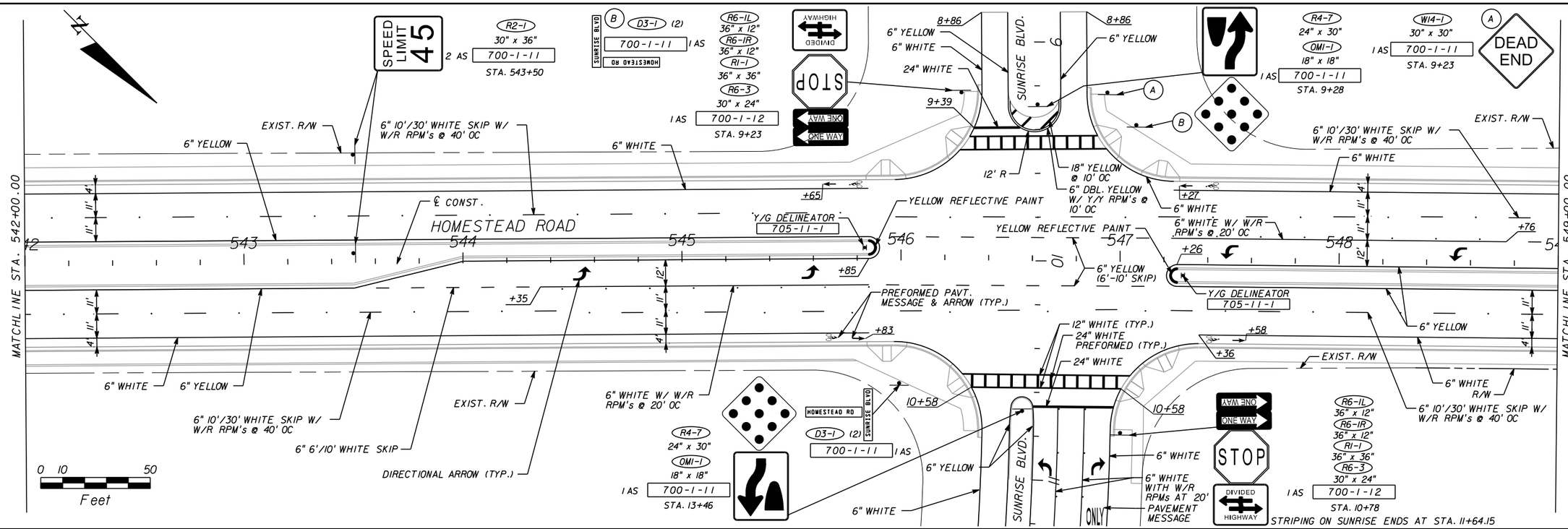

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SIGNING & PAVEMENT MARKING PLAN HOMESTEAD ROAD

STA. 535+00.00 TO STA. 549+00.00

SHEET NO. S-9

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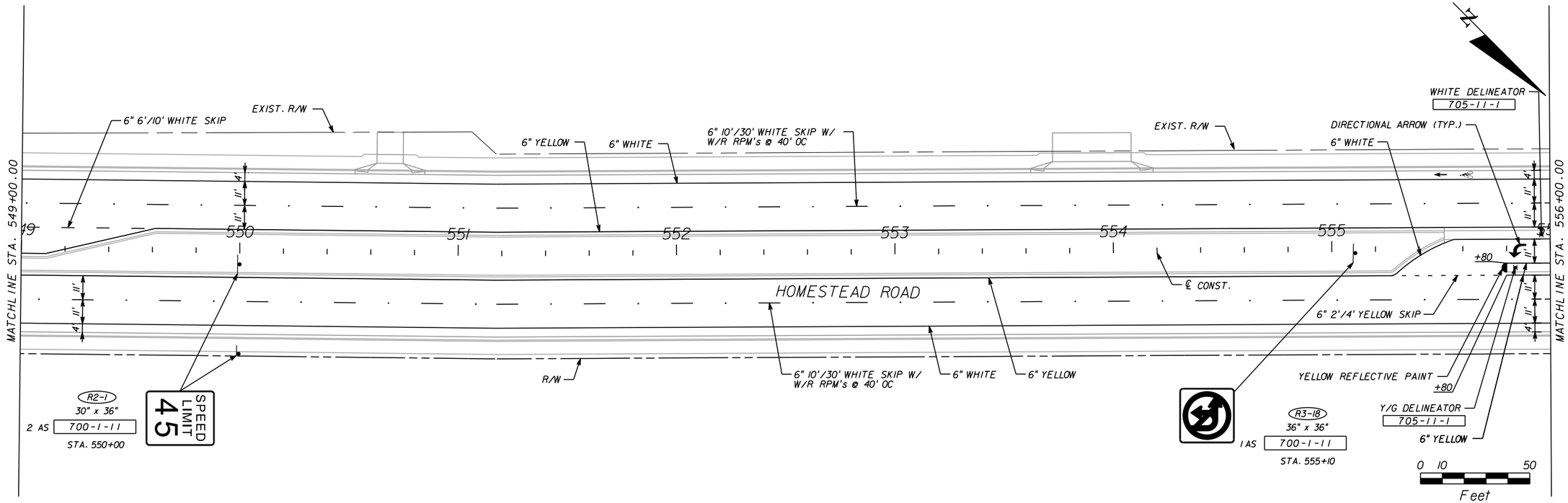

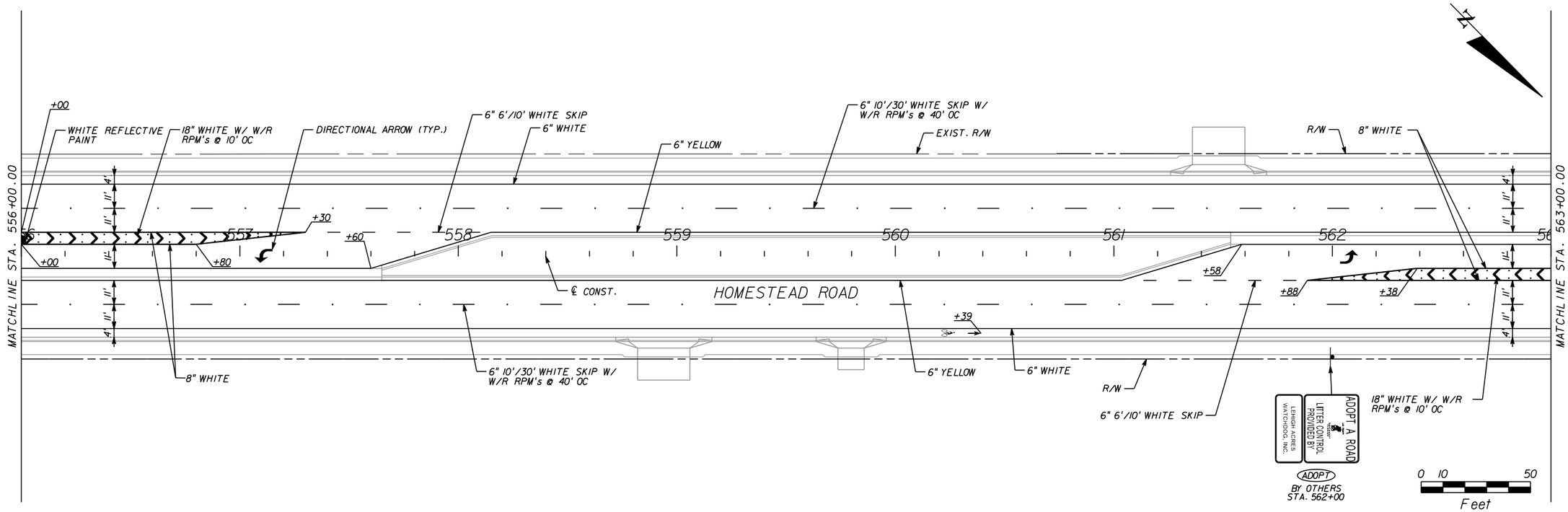

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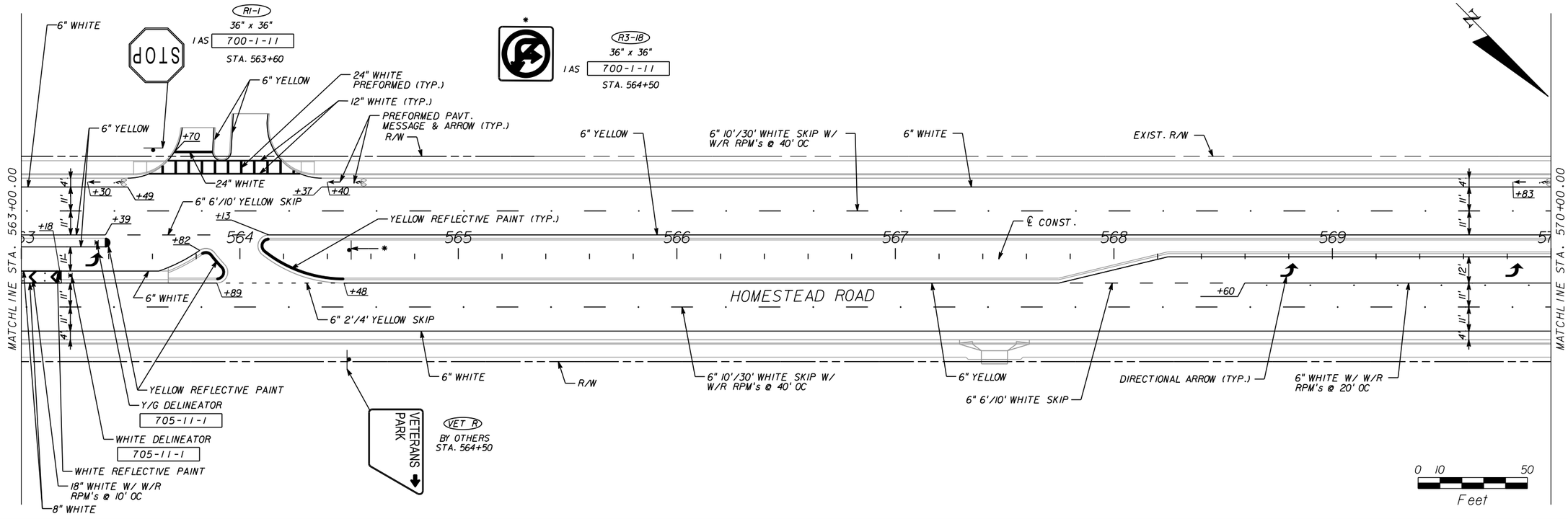
FORT MYERS, FLORIDA 33901

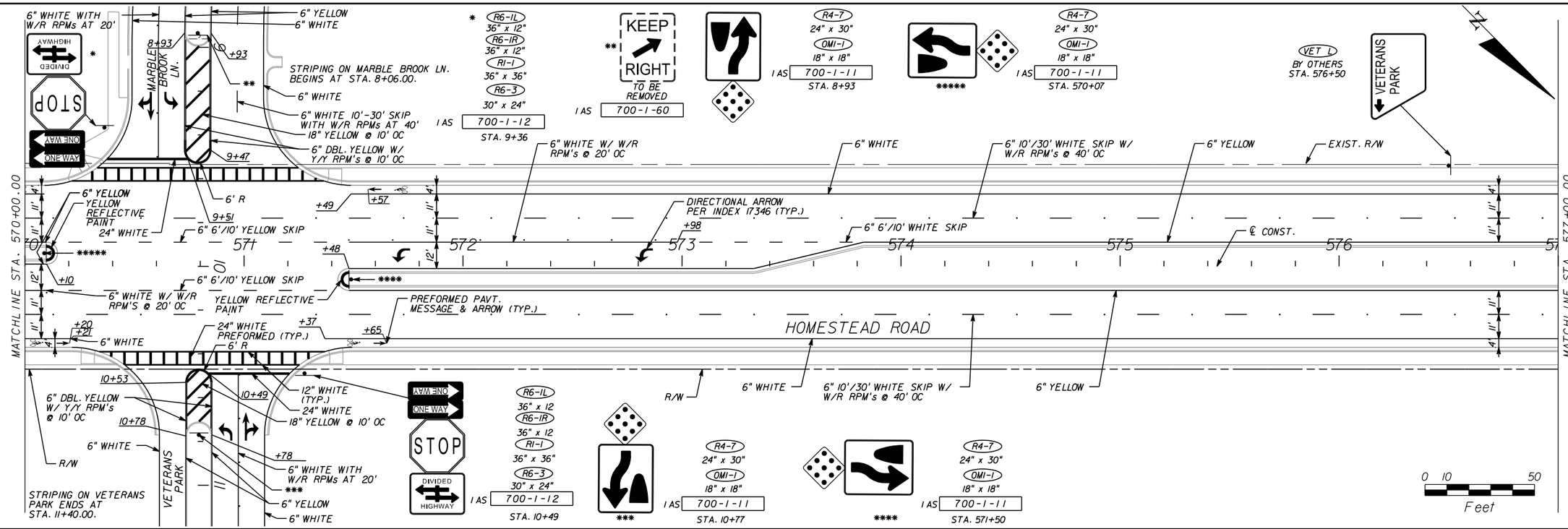
SIGNING & PAVEMENT MARKING PLAN
HOMESTEAD ROAD

STA. 549+00.00 TO STA. 563+00.00

SHEET NO. S-10

CROCKSWO 9/15/2016 10:50:14 AM PW:\2021\6\0000000000053055\V3.00_CAD\Homestead\signing\plansp14.dgn





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SIGNING & PAVEMENT MARKING PLAN HOMESTEAD ROAD

STA. 563+00.00 TO STA. 577+00.00

SHEET NO. S-11

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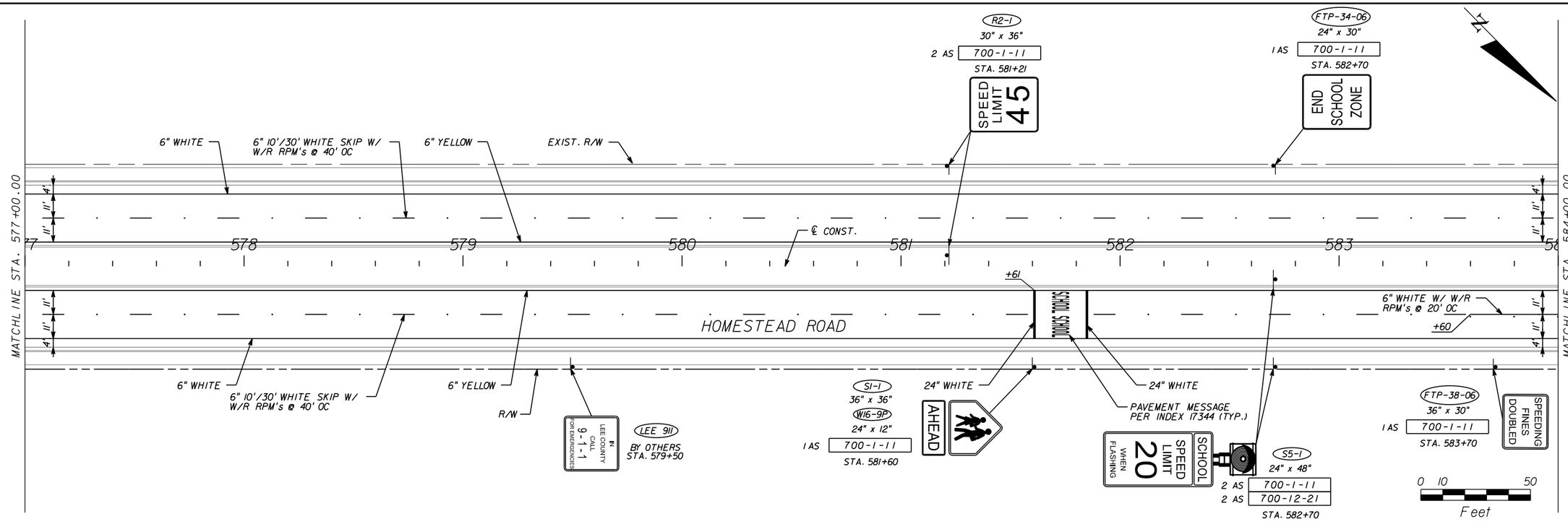

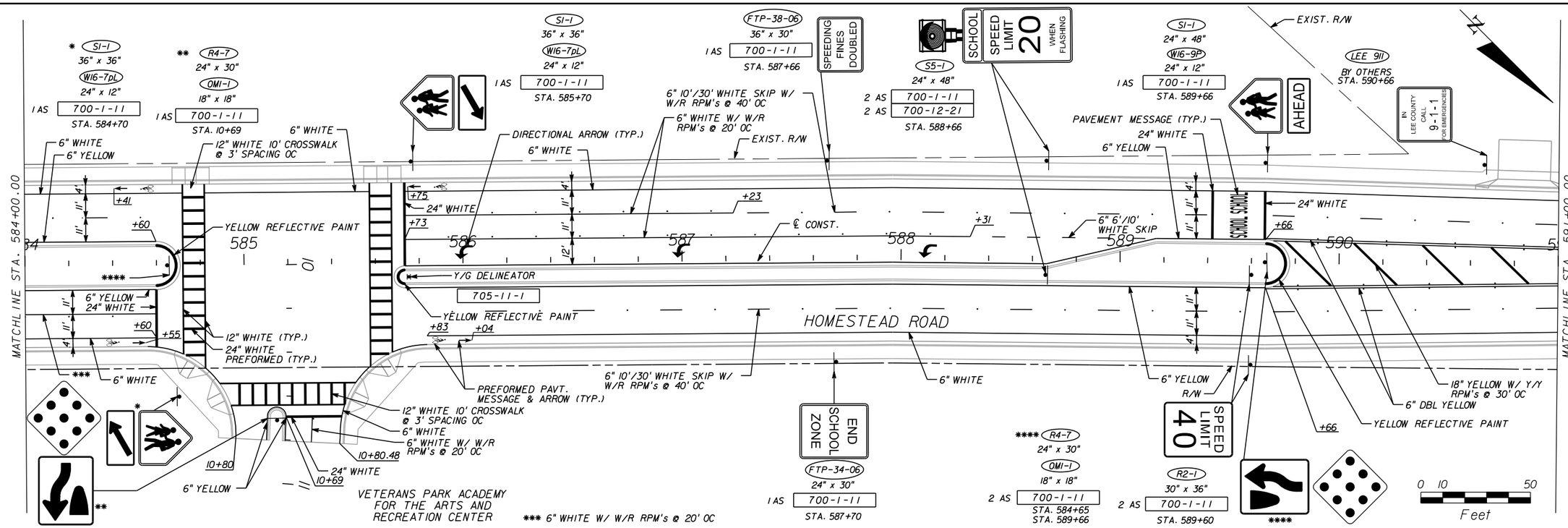

*** 6" WHITE W/ W/R RPM's @ 20' OC

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DEPARTMENT of TRANSPORTATION

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SIGNING & PAVEMENT MARKING PLAN
HOMESTEAD ROAD

STA. 577+00.00 TO STA. 591+00.00

SHEET NO. S-12

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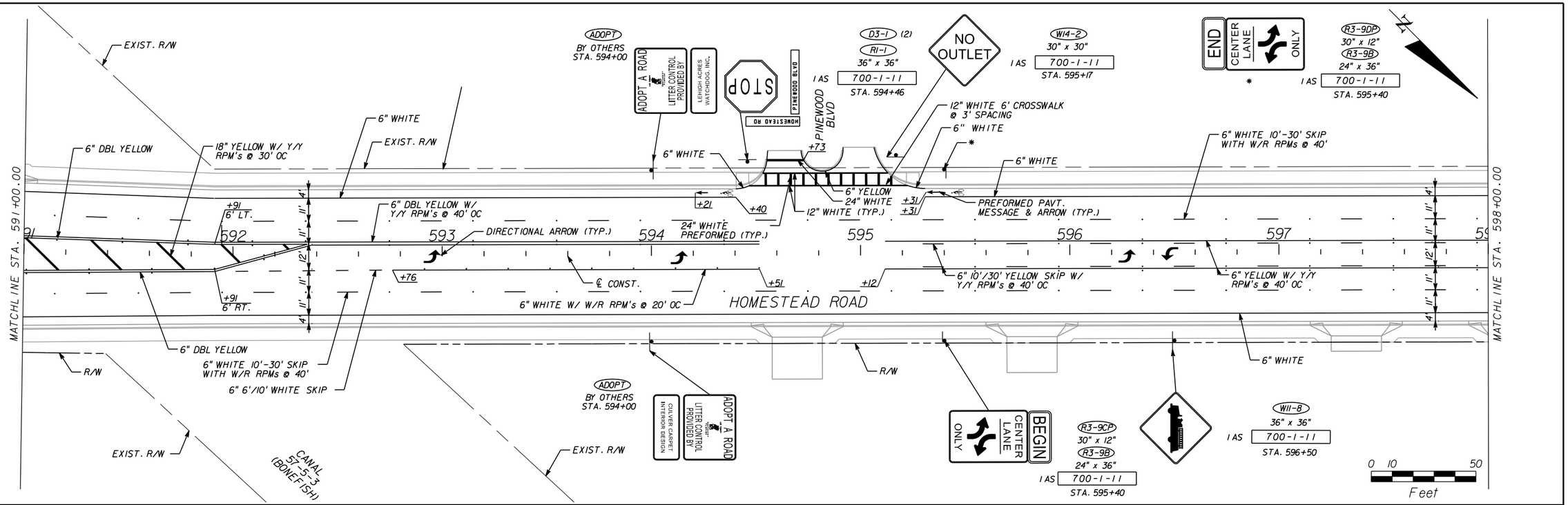

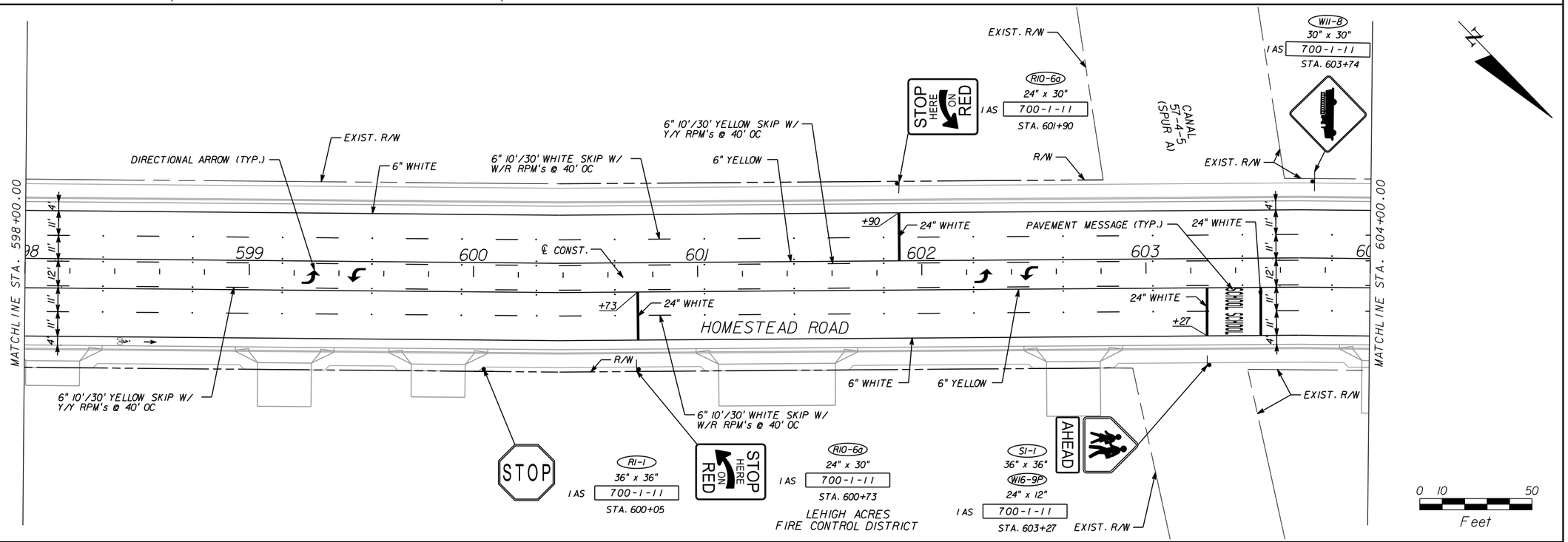

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Bijan Behzadi, P.E.
P.E. License Number 43868
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

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DEPARTMENT of TRANSPORTATION

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SIGNING & PAVEMENT MARKING PLAN HOMESTEAD ROAD

STA. 591+00.00 TO STA. 604+00.00

SHEET NO. S-13

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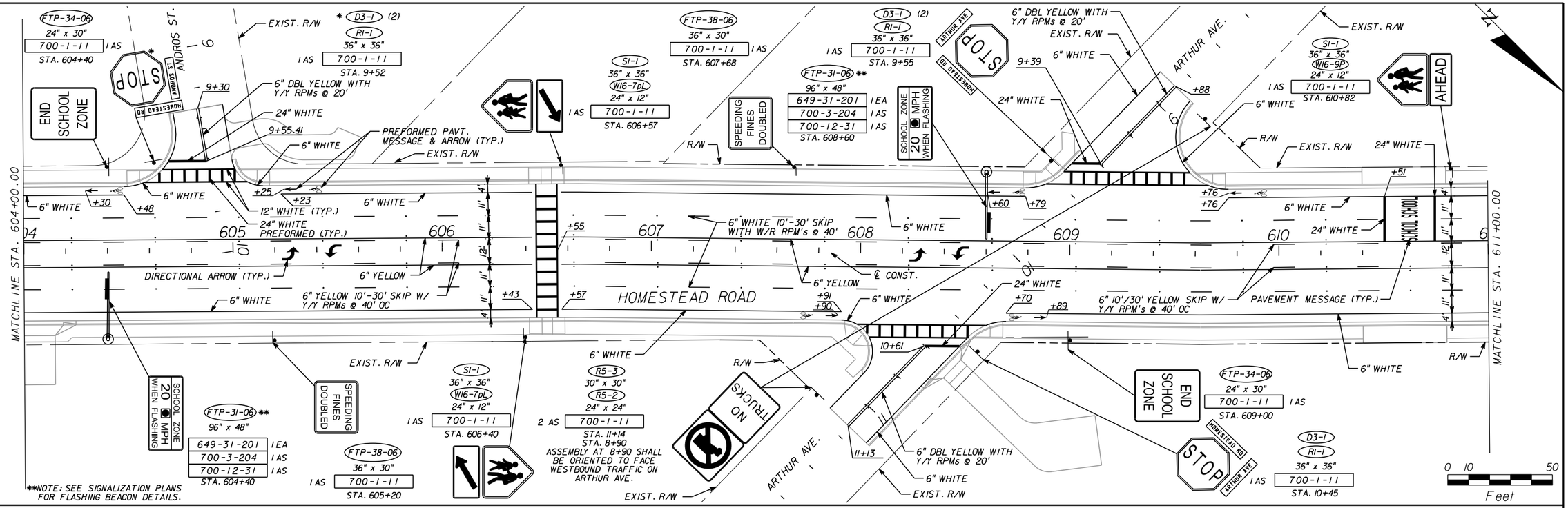

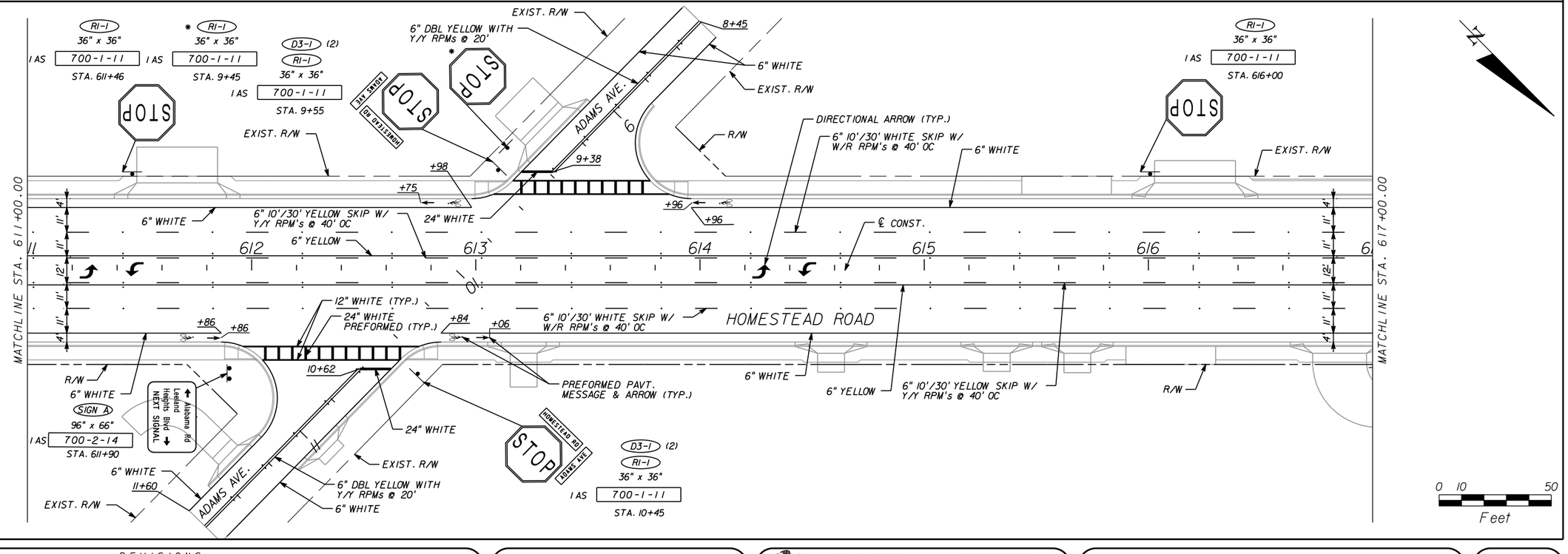

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT of TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN HOMESTEAD ROAD

STA. 604+00.00 TO STA. 617+00.00

SHEET NO. S-14

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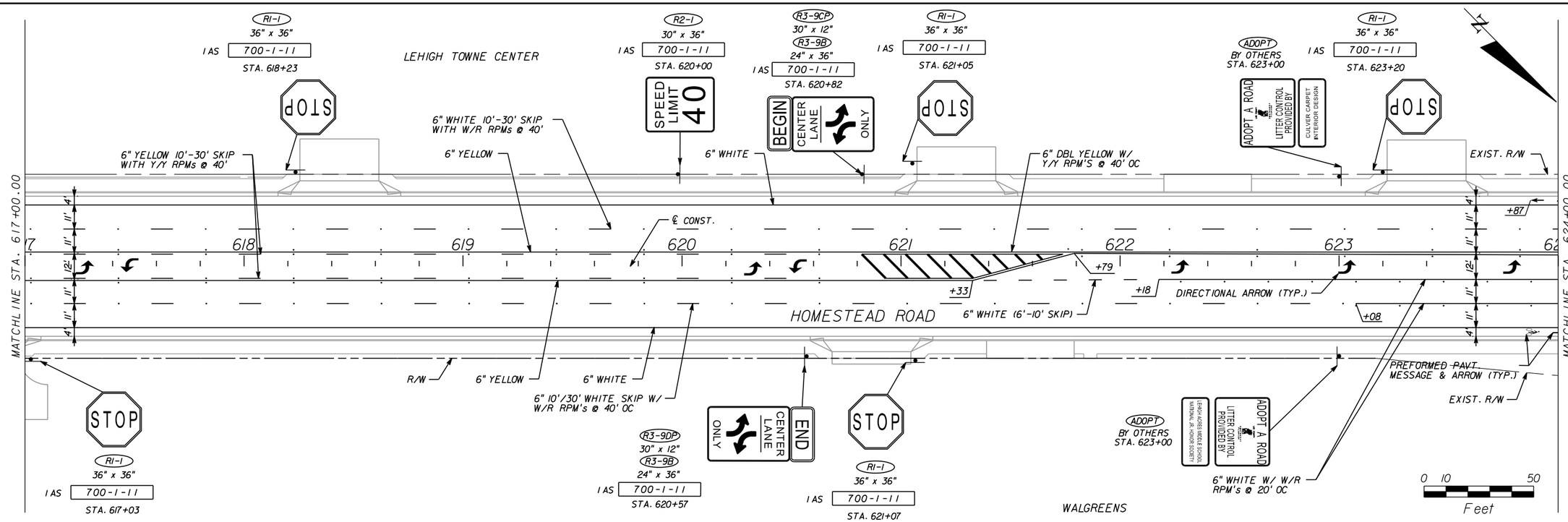

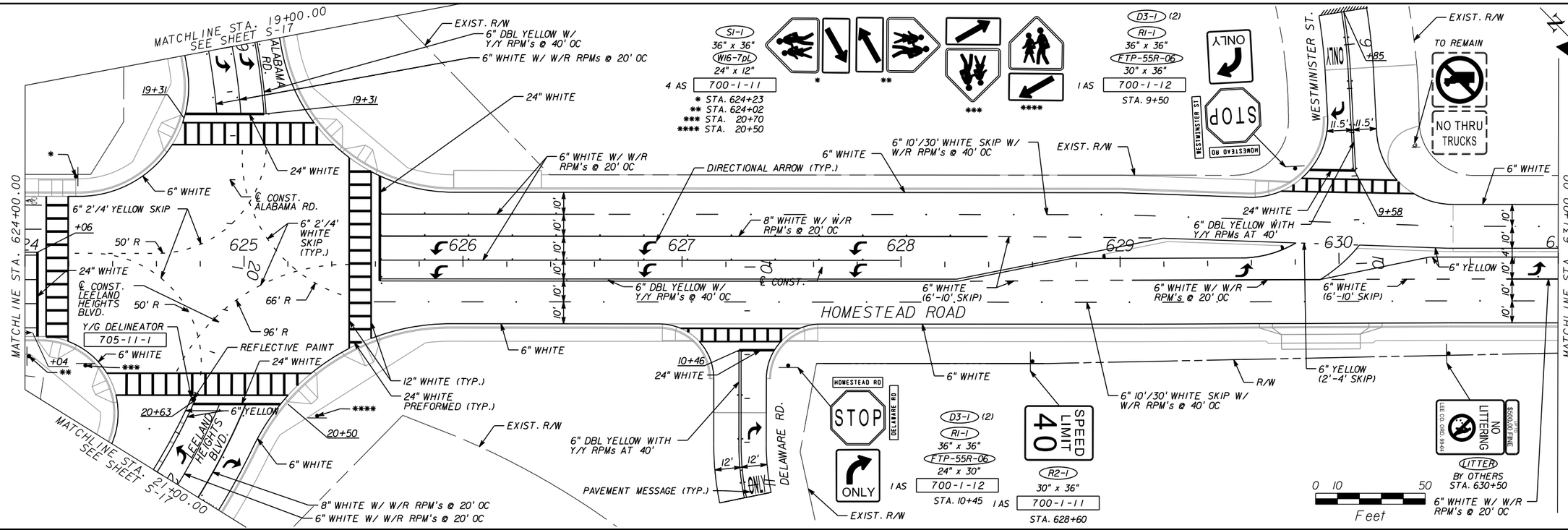

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Bijan Behzadi, P.E.
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DEPARTMENT of TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN
HOMESTEAD ROAD

STA. 617+00.00 TO STA. 631+00.00

SHEET NO. S-15

CROCKSW0 9/15/2016 10:51:00 AM PW:\2021I6\0000000005305\V3.00_CAD\Homestead\Signing\plansp19.dgn

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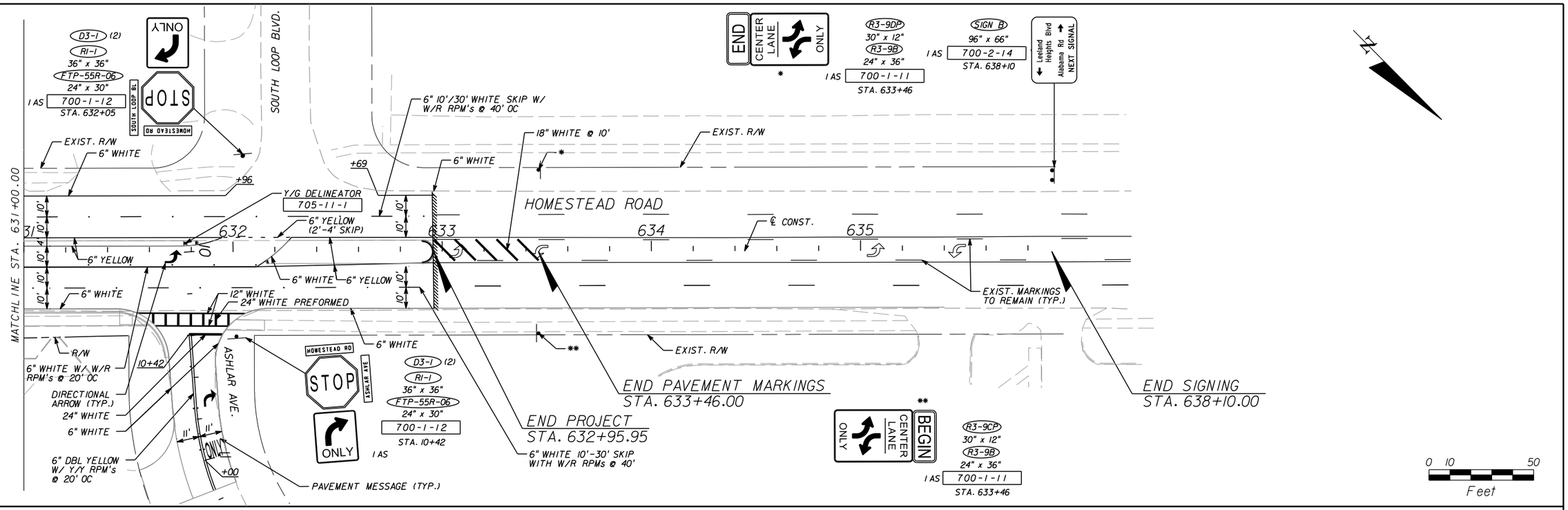

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SIGNING & PAVEMENT MARKING PLAN
HOMESTEAD ROAD

STA. 631+00.00 TO STA. 632+95.95

SHEET NO. S-16

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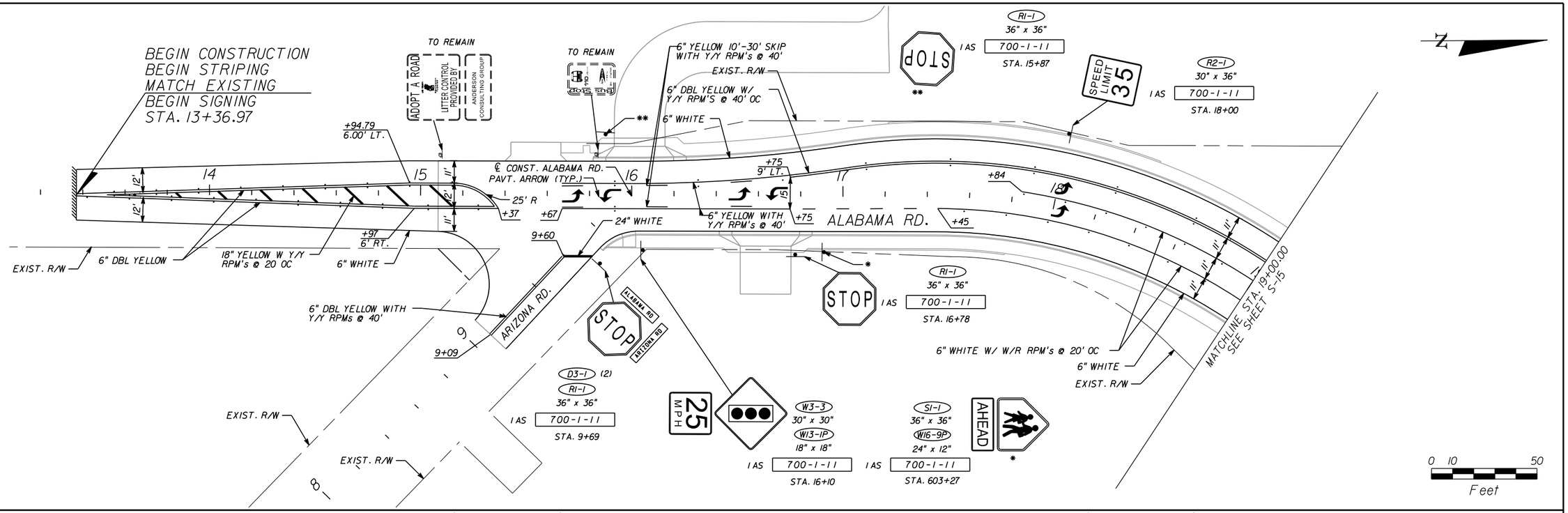

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REVISIONS					
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DEPARTMENT of TRANSPORTATION

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SIGNING & PAVEMENT MARKING PLAN
ALABAMA RD. & LEELAND HEIGHTS BLVD.

STA. 13+36.97 TO STA. 26+65.58

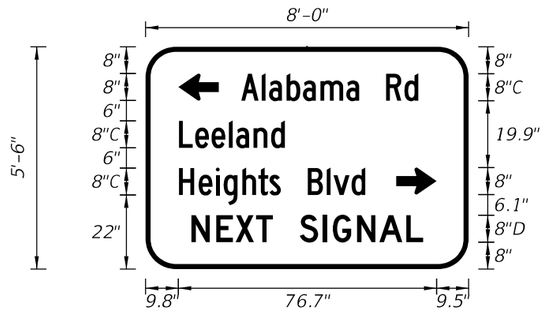
SHEET NO. S-17

9/15/2016 10:51:20 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\Signing\plansp21.dgn

SIGN NAME	A	QTY	1	SIGN NO.	STATION(S)
PANEL	BORDER				611+90
WIDTH	8'-0"	WIDTH	1.5"		
HEIGHT	5'-6"	RADII	9"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	9.8	50	8	12
AR_Type D	270	74.5	22.1	8	12

SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE STEEL	AVERAGE LENGTH
1	2	12	W6X12	12.890



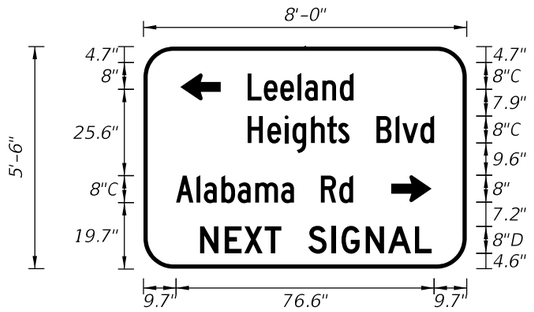
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		A	l	a	b	a	m	a		R	d		L										
SPACE	28.5	6.1	2.2	5.2	4.9	5.2	7.7	3.8	8	5.4	4.1	15	52.6										
COPY		L	e	e	l	a	n	d		L													
SPACE	10	4.8	4.9	5.1	2.2	5.2	5.2	4.1	54.6	31.4													
COPY		H	e	l	g	h	t	s		B	l	v	d		L								
SPACE	10	5.8	5.1	2.3	5.5	4.8	3.3	3.4	8	5.7	2	5.4	4.1	30.7	55.4								
COPY		N	E	X	T		S	l	G	N	A	L		L									
SPACE	13.7	7.4	5.8	6.1	5	8	6.8	3	7.2	6.6	8	5	13.5	68.8									
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME	B	QTY	1	SIGN NO.	STATION(S)
PANEL	BORDER				638+10
WIDTH	8'-0"	WIDTH	1.25"		
HEIGHT	5'-6"	RADII	9"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	11	50	8	12
AR_Type D	270	73.6	19.8	8	12

SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE STEEL	AVERAGE LENGTH
1	2	10	W6X12	12.181



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		L	e	e	l	a	n	d			L												
SPACE	31	4.8	4.9	5.1	2.2	5.2	5.2	4.1	8	25.6	39.4												
COPY		H	e	i	g	h	t	s		B	l	v	d		L								
SPACE	31	5.8	5.1	2.3	5.5	4.8	3.3	3.4	8	5.7	2	5.4	4.1	9.7	55.4								
COPY		A	l	a	b	a	m	a		R	d		L										
SPACE	9.7	6.1	2.2	5.2	4.9	5.2	7.7	3.8	8	5.4	4.1	33.8	52.6										
COPY		N	E	X	T		S	l	G	N	A	L		L									
SPACE	16.8	7.4	5.8	6.1	5	8	6.8	3	7.2	6.6	8	5	10.4	68.8									
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME		QTY		SIGN NO.	STATION(S)
PANEL	BORDER				
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME		QTY		SIGN NO.	STATION(S)
PANEL	BORDER				
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																							
SPACE																							
COPY																							
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COPY																							
SPACE																							

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Bijan Behzadi, P.E.
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HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotlite.htm

CROCKSW0

GUIDE SIGN WORKSHEET
HOMESTEAD ROAD

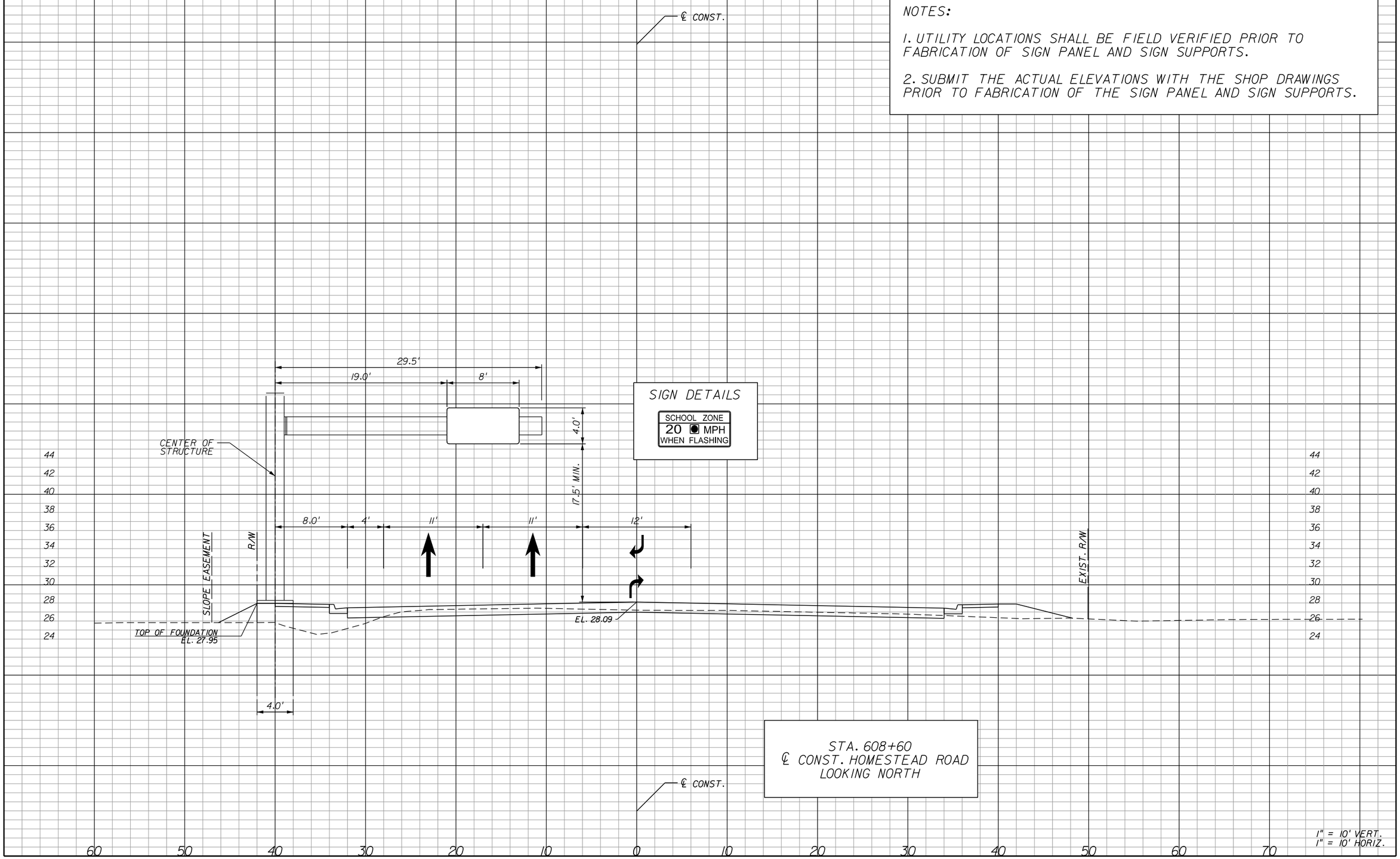
SHEET NO.
S-18

9/15/2016 10:51:29 AM PW:\2021\6\000000000053055\V3.00_CAD\Homestead\Signing\gswksp01.dgn

NOTES:

1. UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN PANEL AND SIGN SUPPORTS.

2. SUBMIT THE ACTUAL ELEVATIONS WITH THE SHOP DRAWINGS PRIOR TO FABRICATION OF THE SIGN PANEL AND SIGN SUPPORTS.



SIGN DETAILS

SCHOOL ZONE
20 ◉ MPH
WHEN FLASHING

STA. 608+60
℄ CONST. HOMESTEAD ROAD
LOOKING NORTH

1" = 10' VERT.
1" = 10' HORIZ.

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LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

SIGN CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
S-19

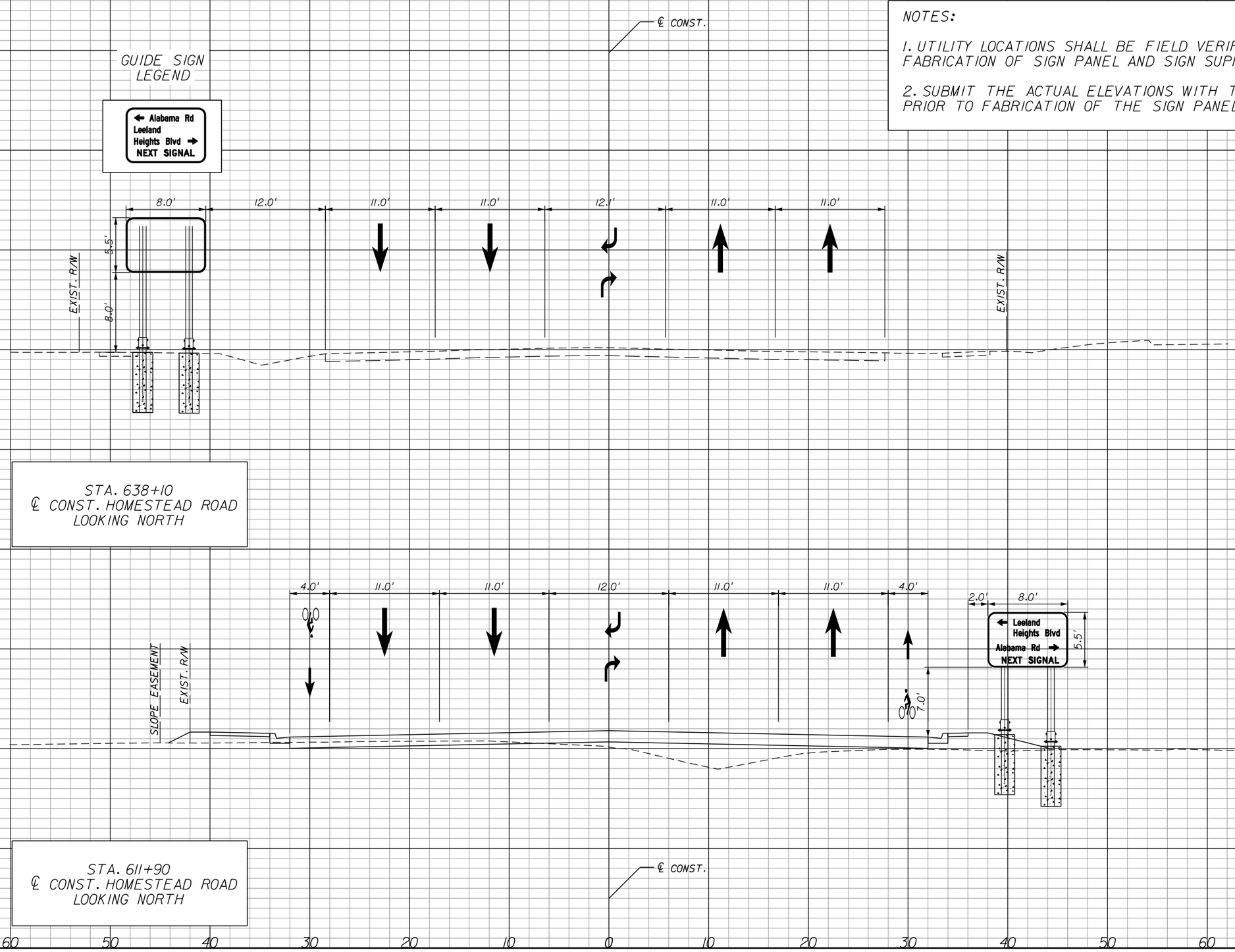
CROCKSWO 9/15/2016 11:28:27 AM PW:\2021I6\00000000053055\V3.00_CAD\Homestead\SignIng\RDXSSP0I.dgn

NOTES:

1. UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN PANEL AND SIGN SUPPORTS.

2. SUBMIT THE ACTUAL ELEVATIONS WITH THE SHOP DRAWINGS PRIOR TO FABRICATION OF THE SIGN PANEL AND SIGN SUPPORTS.

GUIDE SIGN LEGEND



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Sarasota, FL 34232-6233
Certificate of Authorization 4213

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SOUTHWEST
FLORIDA

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of
TRANSPORTATION

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CROCKSWO

SIGN CROSS SECTIONS
HOMESTEAD ROAD

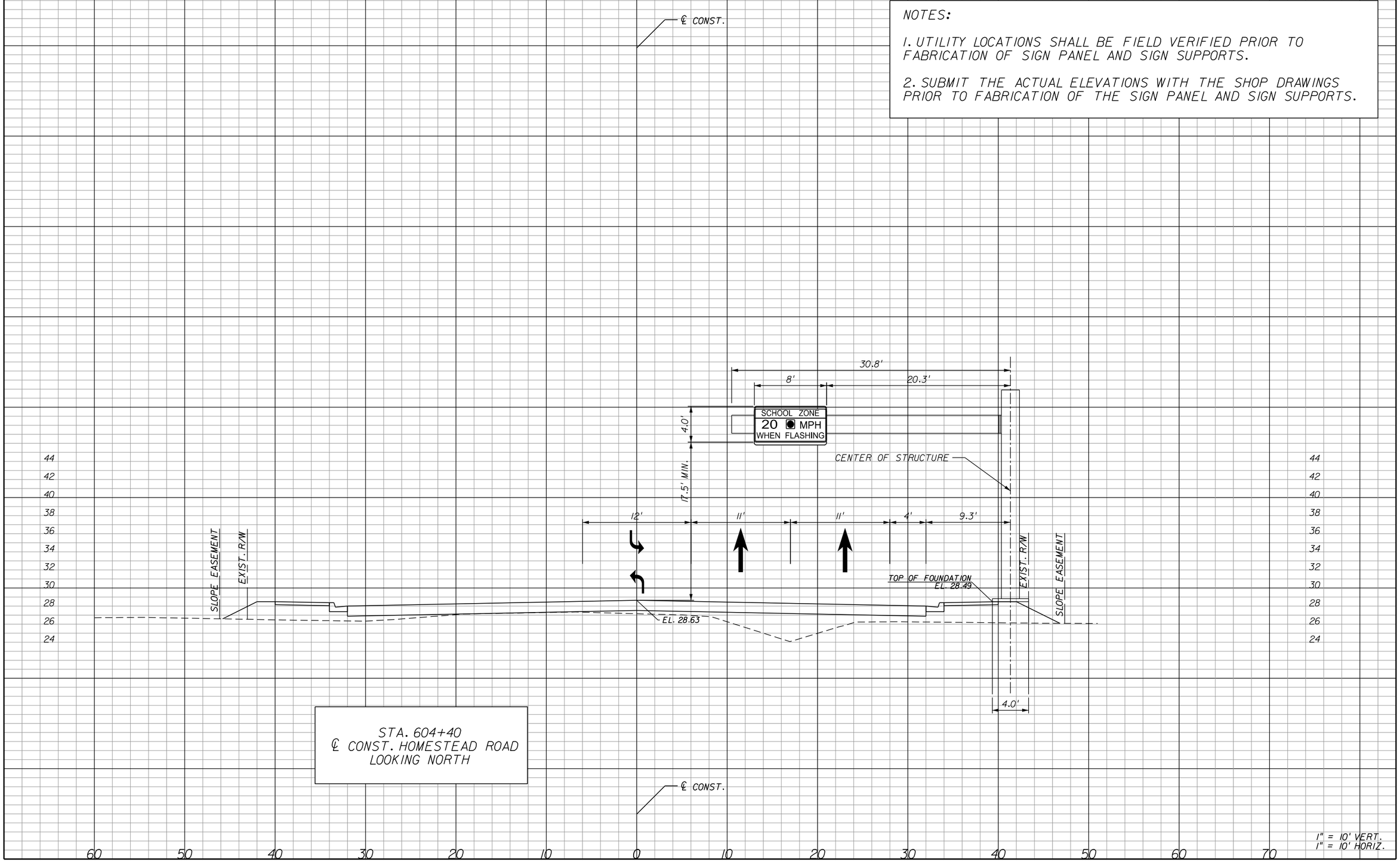
SHEET NO.
S-20

9/15/2016 11:28:57 AM PW:\2021\6\00000000053055\V3.00_CAD\Homestead\signing\RDXSSP01.dgn

NOTES:

1. UTILITY LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN PANEL AND SIGN SUPPORTS.

2. SUBMIT THE ACTUAL ELEVATIONS WITH THE SHOP DRAWINGS PRIOR TO FABRICATION OF THE SIGN PANEL AND SIGN SUPPORTS.



STA. 604+40
℄ CONST. HOMESTEAD ROAD
LOOKING NORTH

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Certificate of Authorization 4213

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FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
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CROCKSWO

SIGN CROSS SECTIONS
HOMESTEAD ROAD

SHEET NO.
S-21

9/15/2016 11:29:29 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\Signing\RDXSSP01.dgn

STANDARD MAST ARM ASSEMBLIES DATA TABLE

Table Date 01-01-12

STRUCTURE ID NUMBERS	ASSEMBLY NUMBERS (1)	FIRST ARM			SECOND ARM			UF (deg)	LL (deg)	POLE				SPECIAL DRILLED SHAFT (4)					
		ARM TYPE	FAA (2) (ft.)	FBA (2) (in.)	ARM TYPE	FAA (2) (ft.)	FBA (2) (in.)			POLE TYPE	UAA (3) (ft.)	UB (ft.)	UCA (3) (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD (in.)
STA. 604+40	E1-T1	E1	25.0	7.5	--	--	--	--	--	T1	22	20	10.92	--	--	--	--	--	--
STA. 608+60	E1-T1	E1	23.5	7.71	--	--	--	--	--	T1	22	20	10.92	--	--	--	--	--	--

TABLE NOTES:

1. Assembly Number Legend

   Single Arm:
   Arm Type - Pole Type = D# - S#
   = E# - T#
   = F# - W#

   Double Arm:
   First Arm Type - Second Arm Type - Pole Type = D# - D# - S#
   = E# - E# - T#
   = F# - F# - W#

2. If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the mast arm length shall be shortened from "FA" to "FAA" and the tip diameter shall be increased from "FB" to "FBA".

3. If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".

4. The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft" data information if site conditions dictate drilled shafts with additional foundation capacity.

   Classification = Cohesionless (Fine Sand)
   Friction Angle = 30 Degrees (30°)
   Unit Weight = 50 lbs. / cu. ft. (assumed saturated)

GENERAL NOTES:

1. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.

2. Work with Index Nos. 17743 and 17745.

3. When placing Standard Mast Arm Assemblies on existing foundations, remove existing grout pad and cut existing anchor bolts flush with top of foundation. Replace damaged or removed portions of the foundation, using epoxy bonding compound according to Section 400 of the Specifications. Replace grout pad according to Section 934 of the Specifications.

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5426 Bay Center Drive, Suite 400
Tampa, FL 33609-3444
Certificate of Authorization 4213

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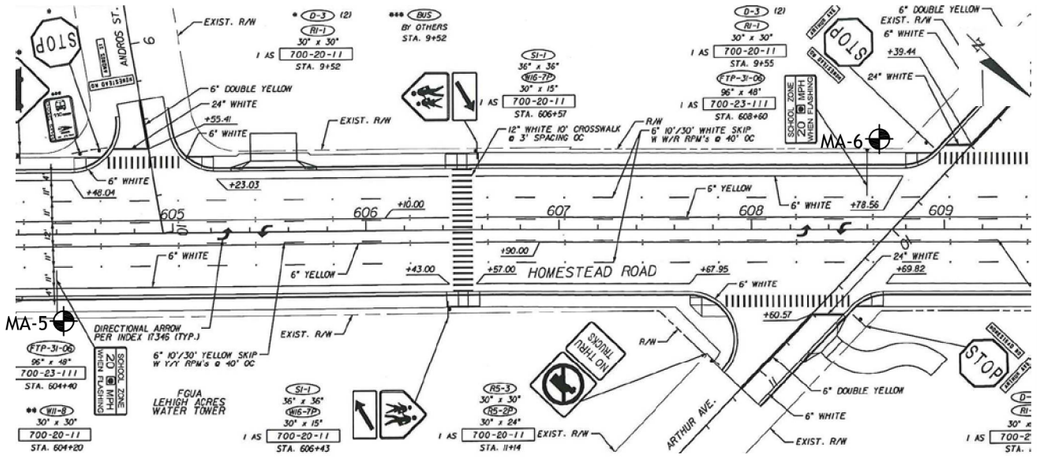
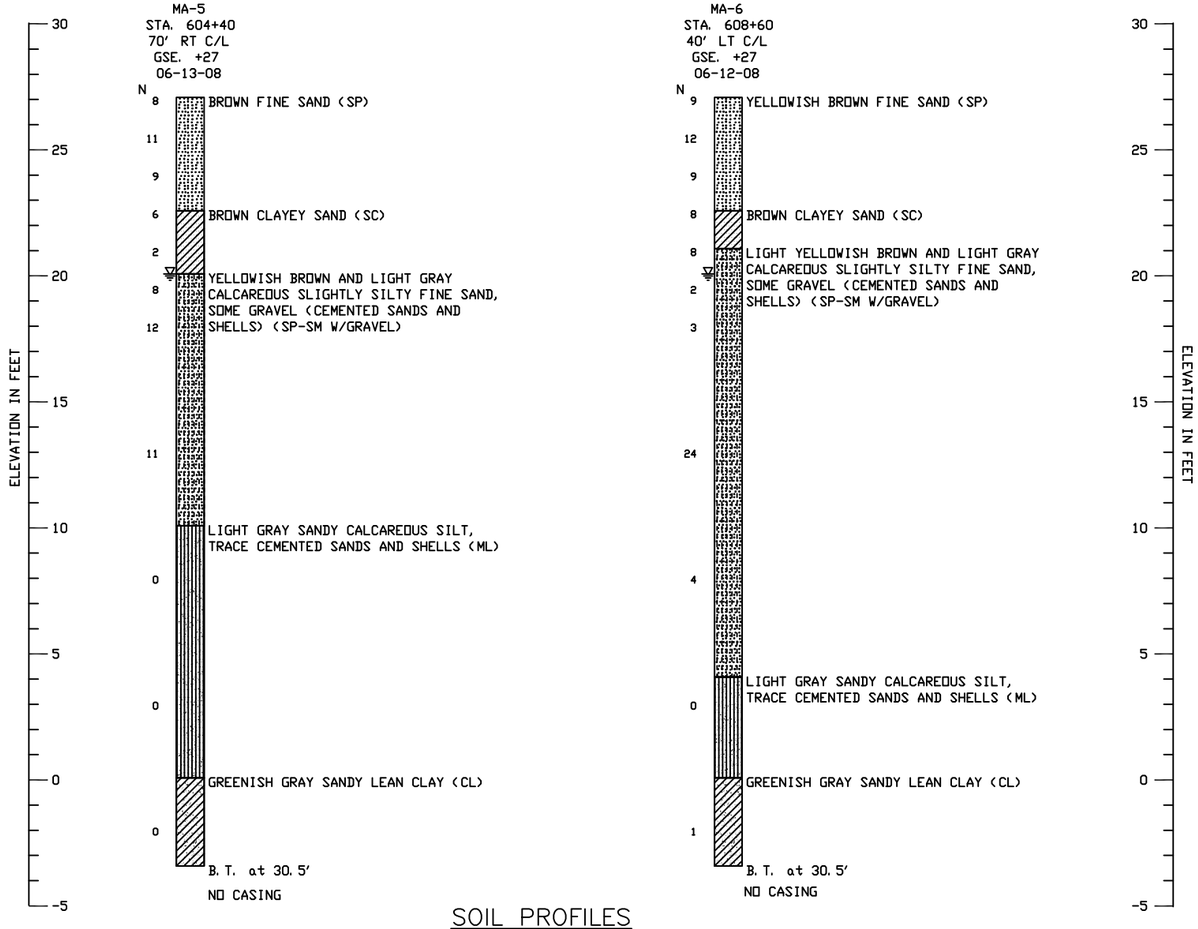
STANDARD MAST ARM ASSEMBLIES DATA TABLE

SHEET NO. S-22



BORING LOCATION PLAN



SOIL PROFILES

SOIL DESIGN PARAMETERS FOR BORINGS MA-5

DEPTH BELOW GROUND SURFACE (FEET)	SPT RANGE (N-VALUE)	SOIL TYPE	APPROX. SOIL UNIT WEIGHT (PCF)		ANGLE OF INTERNAL FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
			γsat	γb			ACTIVE (Ka)	PASSIVE (Kp)
0-4	8-11	SP	112	50	30	--	0.33	3.00
07-Apr	2-6	SC	112	50	--	750	1	1
7-17.5	8-12	SP-SM W/GR	112	50	31	--	0.32	3.12
17.5-27.5	0	ML	102	40	26	--	0.39	2.56
27.5-30	0	CL	107	45	--	250	1	1

SOIL DESIGN PARAMETERS FOR BORINGS MA-6

DEPTH BELOW GROUND SURFACE (FEET)	SPT RANGE (N-VALUE)	SOIL TYPE	APPROX. SOIL UNIT WEIGHT (PCF)		ANGLE OF INTERNAL FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
			γsat	γb			ACTIVE (Ka)	PASSIVE (Kp)
0-4.5	9-12	SP	112	50	30	--	0.33	3.00
4.5-6	8	SC	112	50	--	750	1	1
6-22	2-24	SP-SM W/GR	112	50	30	--	0.33	3.00
22-27	0	ML	102	40	26	--	0.39	2.56
27-30	1	CL	107	45	--	--	1	1

CORROSION SERIES TEST RESULTS

DEPTH feet	RESISTIVITY Ohms-cm	CHLORIDES ppm	SULFATES ppm	pH
0-4	16,000	30	10	7.9
4-7	1,200	30	106	7.0

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE:
CONCRETE: MODERATELY AGGRESSIVE
STEEL: MODERATELY AGGRESSIVE

SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE

DRILL RIG: TRUCK MOUNTED CME 55

STANDARD PENETRATION TEST DATA:
SPOON I.D.= 1.375"
SPOON O.D.= 2.0"
HAMMER DROP= 30"
HAMMER WEIGHT= 140 lbs.
HAMMER TYPE= SAFETY 6'-10'
AUTO 15'-30'

ENGINEERING CLASSIFICATION

I COHESIONLESS SOILS

DESCRIPTION	BLOW COUNT "N"
VERY LOOSE	0 TO 4
LOOSE	4 TO 10
MEDIUM DENSE	10 TO 30
DENSE	30 TO 50
VERY DENSE	>50

II COHESIVE SOILS

DESCRIPTION	UNCONFINED COMPRESSIVE STRENGTH, QU, TSF	BLOW COUNT "N"
VERY SOFT	<1/4	0 TO 2
SOFT	1/4 TO 1/2	2 TO 4
FIRM	1/2 TO 1	4 TO 8
STIFF	1 TO 2	8 TO 15
VERY STIFF	2 TO 4	15 TO 30
HARD	>4	>30

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS. GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN, FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.

LEGEND

Strata symbols

- Fine sand
- Clayey sand
- Slightly silty sand
- Sandy silt
- Sandy lean clay

- STANDARD PENETRATION TEST (SPT) BORING LOCATION
- N — STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT
- GROUNDWATER LEVEL MEASURED ON DATE DRILLED
- GSE — GROUND SURFACE ELEVATION (FEET, NGVD)
- SP, SC-SM ML, CH, CL — UNIFIED SOIL CLASSIFICATION SYSTEM
- LOSS OF DRILLING FLUID CIRCULATION
- B.T. — BORING TERMINATION DEPTH

REVISIONS					
Date	By	Description	Date	By	Description

	Names	Dates
Drawn by	JAR	07/08
Checked by	GAD	07/08
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:
G.A. DREW, P.E.
FL. REG. NO. 35504

Ardaman & Associates, Inc.
9970 BAVARIA ROAD
FT. MYERS, FL. 33913
PHONE (239) 768-6600
ENG. AUTH NO. 5950

Ardaman & Associates, Inc.

SEAL:

LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

SCHOOL ZONE CANTILEVER STRUCTURES BORINGS
HOMESTEAD ROAD WIDENING — SUNRISE BLVD TO ALABAMA RD

SHEET NO.
S-23

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

LEE COUNTY BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

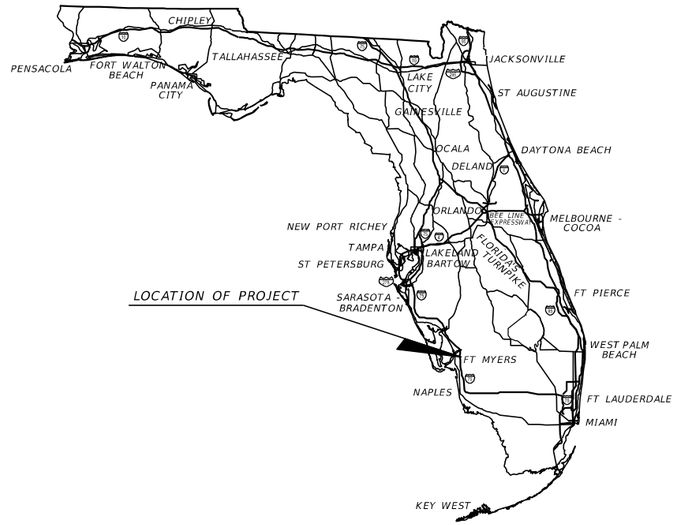
CONTRACT PLANS

PLANS OF PROPOSED

HOMESTEAD ROAD WIDENING

LEE COUNTY
PROJECT NO. 5063

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2 - T-3	TABULATION OF QUANTITIES
T-4 - T-5	PROJECT NOTES
T-6	SIGNALIZATION PLAN VETERANS PARK
T-7	SIGNALIZATION PLAN FIRE STATION
T-8	SIGNALIZATION PLAN ALABAMA RD./LEELAND HEIGHTS BLVD.
T-9 - T-16	INTERCONNECT PLAN HOMESTEAD RD.
T-17	SPLICE DIAGRAM
T-18 - T-19	GUIDE SIGN WORK SHEET
T-20	SPAN WIRE TABULATION
T-21	STRAIN POLE DETAILS
T-22	FIXED SIGN BRACKET ARM (ONE WAY)
T-23	OVERHEAD SIGN LOCATION DETAIL ON SIGN BRACKET ARM
GT-1 - GT-3	REPORT OF CORE BORINGS

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:
Liyanage Ratnayake, P.E.
HDR Engineering, Inc.
5426 Bay Center Drive, Suite 400
Tampa, FL 33609-3444

PLANS PREPARED BY:

HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213
Vendor No. 47-0680568
Contract No. 3806

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

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:
LIST OF DEVIATIONS: NONE

SIGNALIZATION PLANS
ENGINEER OF RECORD: LIYANAGE RATNAYAKE, PE

P.E. NO.: 77692

DATE: _____

KEY SHEET REVISIONS	
DATE	DESCRIPTION

DEVELOPMENT ORDER APPROVED:
LEE COUNTY PUBLIC WORKS ADMINISTRATOR
DIRECTOR, P W TRANSPORTATION:

DAVID LOVELAND

DATE: _____

SHEET NO.
T-1

LEE COUNTY PROJECT MANAGER: SARAH CLARKE

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL	
			T-6		T-7		T-8		T-9		T-10		T-11		T-12		T-13		T-14					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT (F & I)(OPEN TRENCH)	LF	240		195		195		1045		1298		1442		1322		1392		1031		8160			
630-2-12	CONDUIT (F & I)(DIRECTIONAL BORE)	LF	193		35		505				158				120				456		1467			
632-7-1	CABLE (SIGNAL)(F&I)	PI	1		1		1														3			
632-7-2	CABLE (SIGNAL)(F&I)	LF																	168		168			
632-7-6	SIGNAL CABLE REMOVE-INTERSECTION	PI					1														1			
633-1-121	FIBER OPTIC CABLE (F&I)(UNDERGROUND)(2-12 FIBERS)	LF															55		70		125			
633-1-123	FIBER OPTIC CABLE (F&I)(UNDERGROUND)(49-96 FIBERS)	LF															807		1746		2553			
633-2-31	FIBER OPTIC CONNECTION (INSTALL SPLICE)	EA															4				4			
633-3-11	FIBER OPTIC CONNECTION HARDWARE (F&I)(SPLICE ENCLOSURE)	EA															1				1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE (F&I)(SPLICE TRAY)	EA															1				1			
633-3-15	FIBER OPTIC CONNECTION HARDWARE (F&I)(PATCH PANEL, PRETERMINATED)	EA															1				1			
633-4-1	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE (F&I)	LF																						
633-4-6	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE (REMOVE)	LF																						
634-4-152	SPAN WIRE ASSEMBLY (F&I)(TWO POINT)(DIAGONAL)	PI			1																1			
634-4-153	SPAN WIRE ASSEMBLY (F&I)(TWO POINT)(BOX)	PI	1				1														2			
634-5-1	FIBERGLASS INSULATOR (F&I)	LF					40														40			
635-2-11	PULL & SPLICE BOXES (F&I)(PULL BOX)(17" x 30" x 12")	EA	11		6		20												1		38			
635-2-12	PULL & SPLICE BOX (F&I)XFIBER OPTIC PULL BOX)(24" x 36" x 24")	EA							3		4		3		4		5		1		20			
635-2-13	PULL & SPLICE BOXES (F&I)(SPLICE VAULT)(30" x 48" x 24")	EA															1		1		2			
639-1-122	ELECTRICAL POWER SERVICE (UNDERGROUND)(F&I)	AS	1		1		1														3			
	(METER PURCHASED BY CONTRACTOR)																							
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF	186		225		378														789			
641-2-12	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-II)(SERVICE POLE)(12 FT)	EA	1		1		1														3			
641-2-15	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-V)	EA			2																2			
641-2-16	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-VI)	EA	4																		4			
641-2-18	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-VIII)	EA					4														4			
641-2-70	PRESTRESSED CONCRETE POLE (SHALLOW POLE REMOVAL-POLE 30'	EA					2														2			
	AND GREATER)																							
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL (F&I)	EA	6				8														14			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA					1														1			
650-1-14	TRAFFIC SIGNAL (F&I)(3 SECT)(1 WAY)(ALUMINUM)	AS	6		6		18														30			
650-1-16	TRAFFIC SIGNAL (F&I)(4 SECT)(1 WAY) (ALUMINUM)	AS	1																		1			
653-1-11	PEDESTRIAN SIGNAL (F&I)(LED-COUNTDOWN)(1 WAY)	AS	6				8														14			
660-4-11	VEHICLE DETECTION SYSTEM (F&I) (VIDEO, CONTROLLER EQUIPMENT)	EA	1				1														2			
660-4-12	VEHICLE DETECTION SYSTEM (F&I) (VIDEO, ABOVE GROUND)	EA	4				4														8			
665-1-12	PEDESTRIAN DETECTOR (F&I)(ACCESSIBLE)	EA	6				8														14			
670-5-112	TRAFFIC CONTROLLER ASSEMBLY(F&I)(NEMA)(2 PRE. PLAN)	AS	1		1		1														3			
670-5-600	TRAFFIC CONTROLLER ASSEMBLY (REMOVE)	AS					1														1			
684-1-1	MANAGED FIELD ETHERNET SWITCH (F&I)	EA															1				1			
684-5-1	MEDIA CONVERTER (F&I)	EA																						
685-106	SYSTEM AUXILIARIES (F&I)(UNINTERRUPTIBLE POWER SOURCE)	EA	1		1		1														3			
685-161	SYSTEM AUXILIARIES (F&I)(MODEM)	EA																						
700-3-201	SIGN PANEL (F&I) OVERHEAD MOUNT (UP TO 12 SF)	EA			2		1														3			
700-5-22	INTERNALLY ILLUMINATED SIGN (F&I)(12-18 SF)	EA	3				4														7			
700-12-31	SIGN BEACON, F&I OVERHEAD MOUNT, ONE BEACON	AS																	1		1			

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Liyanage Ratnayake, P.E.
P.E. License Number 77692
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION

TABULATION OF QUANTITIES

SHEET NO. T-2

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL	
			T-15		T-16																			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT (F & I)(OPEN TRENCH)	LF	1211		453																1664		9824	
630-2-12	CONDUIT (F & I)(DIRECTIONAL BORE)	LF	487		1095																1582		3049	
632-7-1	CABLE (SIGNAL)(F&I)	PI																					3	
632-7-2	CABLE (SIGNAL)(F&I)	LF	402																		402		570	
632-7-6	SIGNAL CABLE REMOVE-INTERSECTION	PI																					1	
633-1-121	FIBER OPTIC CABLE (F&I)(UNDERGROUND)(2-12 FIBERS)	LF			68																68		193	
633-1-123	FIBER OPTIC CABLE (F&I)(UNDERGROUND)(49-96 FIBERS)	LF	1640		892																2532		5085	
633-2-31	FIBER OPTIC CONNECTION (INSTALL SPLICE)	EA			4																4		8	
633-3-11	FIBER OPTIC CONNECTION HARDWARE (F&I)(SPLICE ENCLOSURE)	EA			1																1		2	
633-3-12	FIBER OPTIC CONNECTION HARDWARE (F&I)(SPLICE TRAY)	EA			1																1		2	
633-3-15	FIBER OPTIC CONNECTION HARDWARE (F&I)(PATCH PANEL, PRETERMINATED)	EA																					1	
633-4-1	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE (F&I)	LF			3955																3955		3955	
633-4-6	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE (REMOVE)	LF			4260																4260		4260	
634-4-152	SPAN WIRE ASSEMBLY (F&I)(TWO POINT)(DIAGONAL)	PI																					1	
634-4-153	SPAN WIRE ASSEMBLY (F&I)(TWO POINT)(BOX)	PI																					2	
634-5-1	FIBERGLASS INSULATOR (F&I)	LF																					40	
635-2-11	PULL & SPLICE BOXES (F&I)(PULL BOX)(17" x 30" x 12")	EA	4																		4		42	
635-2-12	PULL & SPLICE BOX (F&IXFIBER OPTIC PULL BOX)(24" x 36" x 24")	EA	4		6																10		30	
635-2-13	PULL & SPLICE BOXES (F&I)(SPLICE VAULT)(30" x 48" x 24")	EA			1																1		3	
639-1-122	ELECTRICAL POWER SERVICE (UNDERGROUND)(F&I)	AS	1																		1		4	
	(METER PURCHASED BY CONTRACTOR)																							
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF	170																		170		959	
641-2-12	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-IIXSERVICE POLE)(12 FT)	EA	1																		1		4	
641-2-15	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-V)	EA																					2	
641-2-16	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-VI)	EA																					4	
641-2-18	PRESTRESSED CONCRETE POLE (F&I)(TYPE P-VIII)	EA																					4	
641-2-70	PRESTRESSED CONCRETE POLE (SHALLOW POLE REMOVAL-POLE 30'	EA																					2	
	AND GREATER)																							
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL (F&I)	EA																					14	
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																					1	
650-1-14	TRAFFIC SIGNAL (F&I)(3 SECT)(1WAY)(ALUMINUM)	AS																					30	
650-1-16	TRAFFIC SIGNAL (F&I)(4 SECT)(1WAY)(ALUMINUM)	AS																					1	
653-1-11	PEDESTRIAN SIGNAL (F&I)(LED-COUNTDOWN)(1WAY)	AS																					14	
660-4-11	VEHICLE DETECTION SYSTEM (F&I) (VIDEO, CONTROLLER EQUIPMENT)	EA																					2	
660-4-12	VEHICLE DETECTION SYSTEM (F&I) (VIDEO, ABOVE GROUND)	EA																					8	
665-1-12	PEDESTRIAN DETECTOR (F&I)(ACCESSIBLE)	EA																					14	
670-5-112	TRAFFIC CONTROLLER ASSEMBLY(F&I)(NEMA)(2 PRE. PLAN)	AS																					3	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY (REMOVE)	AS																					1	
684-1-1	MANAGED FIELD ETHERNET SWITCH (F&I)	EA			1																1		2	
684-5-1	MEDIA CONVERTER (F&I)	EA			1																1		1	
685-106	SYSTEM AUXILIARIES (F&I)(UNINTERRUPTIBLE POWER SOURCE)	EA																					3	
685-161	SYSTEM AUXILIARIES (F&I)(MODEM)	EA	1		1																2		2	
700-3-201	SIGN PANEL (F&I) OVERHEAD MOUNT (UP TO 12 SF)	EA																					3	
700-5-22	INTERNALLY ILLUMINATED SIGN (F&I)(12-18 SF)	EA																					7	
700-12-31	SIGN BEACON, F&I OVERHEAD MOUNT, ONE BEACON	AS	1																		1		2	

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Liyanage Ratnayake, P.E.
P.E. License Number 77692
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

TABULATION OF QUANTITIES

SHEET NO. T-3

SIGNALIZATION NOTES

1. EXISTING EQUIPMENT OWNER: LEE COUNTY DEPARTMENT OF TRANSPORTATION

2. AFTER CONSTRUCTION, SIGNAL TO BE MAINTAINED BY: LEE COUNTY DEPARTMENT OF TRANSPORTATION

3. BEFORE ANY PROJECT WORK BEGINS THERE SHALL BE A MAINTENANCE TRANSFER. THE MAINTENANCE WILL TRANSFER FROM LEE COUNTY TO AN FDOT QUALIFIED ELECTRICAL CONTRACTOR NO LATER THAN THE DAY BEFORE THE PROJECT BEGINS. THE CONTRACTOR IS REQUIRED TO HAVE AN AUTHORIZED REPRESENTATIVE ONSITE TO ACCEPT THE MAINTENANCE TRANSFER AND TO WITNESS THE EXISTING CONDITION OF THE TRAFFIC SIGNAL SYSTEM.

4. ALL EQUIPMENT AND WORK TO BE COMPLIANT TO LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNAL & STREET LIGHTING DATED APRIL 2014. THIS DOCUMENT CAN BE VIEWED AT WWW.LEEGOV.COM/DOT/TRAFFIC/TRAFFICSTANDARD. ALL TRAFFIC SIGNAL EQUIPMENT SUBMITTALS SHALL BE SENT TO JAMES FENCIL AT 5650 ENTERPRISE PARKWAY, FORT MYERS, FL 33905 FOR APPROVAL PRIOR TO ANY INSTALLATION.

5. EXISTING EQUIPMENT SHALL BE RETURNED TO LEE COUNTY DOT/TRAFFIC IN GOOD OPERATING CONDITION AND IN THE SAME CONDITION AS ON THE DAY OF THE MAINTENANCE TRANSFER AT 5650 ENTERPRISE PARKWAY, FORT MYERS, FL 33905 NO LATER THAN 72 HOURS AFTER DISCONNECTION.

6. THE CONTRACTOR SHALL NOTIFY THE "SUNSHINE STATE ONE CALL" NOTIFICATION CENTER NOT LESS THAN 48 HOURS, NO MORE THAN 5 DAYS IN ADVANCE OF ANY OF THE CONTRACTOR'S WORK ACTIVITY WHICH MAY IMPACT ANY UTILITY FACILITY. CALL "SUNSHINE STATE ONE CALL" AT 1-800-432-4770. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR HAVING UNDERGROUND CABLE SITES LOCATED AND IDENTIFIED BY PROPER AUTHORITIES AT TIME OF CONSTRUCTION.

7. ALL SIGNALIZED INTERSECTIONS CONTAINED IN THE PROJECT PLANS SHALL BE IDENTIFIED AS LOCATIONS WHERE TEMPORARY DETECTION SHALL BE REQUIRED. TRAFFIC ACTUATED DETECTION SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. DETECTION CAN BE MAINTAINED BY ONE OF THE FOLLOWING METHODS:
   1. MAINTAIN AND/OR RECUT LOOPS AS NECESSARY.
   2. INSTALL CONTRACTOR OWNED TEMPORARY VIDEO DETECTION.
   3. INSTALL THE PERMANENT CAMERAS THAT MAY BE CALLED OUT ON THE PLANS FOR TEMPORARY USE DURING CONSTRUCTION. CONTRACTOR CAN RELOCATE THESE CAMERAS TO THEIR PERMANENT LOCATION AT THE APPROPRIATE TIME. SHOULD THE CONTRACTOR CHOOSE OPTION 3, LEE COUNTY WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE VIDEO CAMERAS DURING THE PROJECT. THE CAMERAS SHALL BE SUBJECT TO FINAL INSPECTION AND SHALL BE IN GOOD WORKING ORDER.

8. MICROWAVE OR PULSE DETECTION SHALL NOT BE USED FOR PRESENCE DETECTION.

9. CONTRACTOR IS REQUIRED TO HAVE AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND NECESSARY EQUIPMENT TO COMPLETE THE INSPECTIONS ONSITE AT ALL SIGNAL INSPECTIONS. FAILURE TO HAVE A REPRESENTATIVE ONSITE WILL RESULT IN THE CANCELLATION OF THE INSPECTION AND THE WITHHOLDING OF FINAL PAYMENT. AUTHORIZED REPRESENTATIVE IS A PERSON WITH THE KNOWLEDGE AND ABILITY TO MAKE CORRECTIONS AS NEEDED.

10. PRIOR TO BIDDING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF PUSH BUTTON AND CONDUIT NEEDS BY CONSULTING FIRE STATION PERSONNEL.

11. PROJECT ENGINEER IS TO COORDINATE FINAL LOCATION OF PUSH BUTTONS AND CONDUIT IN FIRE STATION WITH STATION PERSONNEL.

12. THE FLASHING OPERATION OF THE EMERGENCY SIGNAL TO BE TERMINATED BY PUSH BUTTON ACTUATION FROM FIRE STATION WITH A MINIMUM OF 3.5 SECONDS OF STEADY YELLOW CLEARANCE TIME. THE TIMING FOR EMERGENCY PRE-EMPTION PHASE SHALL BE DETERMINED BY AVERAGING A MINIMUM OF TWO PRACTICE RUNS OF THE EMERGENCY VEHICLES. THIS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE FIRE STATION, MAINTAINING AGENCY, AND PROJECT ENGINEER. A COPY OF THE FINAL TIMINGS SHALL BE SENT TO 5650 ENTERPRISE PARKWAY, FORT MYERS, FL 33905.

13. ROCK MAY BE ENCOUNTERED WHILE PERFORMING EXCAVATIONS AND UNDERGROUND INSTALLATIONS. THEREFORE, THE CONTRACTOR SHOULD CONSIDER THE INCREASED COST OF ALL UNDERGROUND WORK ACTIVITIES WHILE PREPARING BIDS. INCLUDE ALL COSTS OF ROCK AND/OR ROCK-LIKE MATERIAL EXCAVATION IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO EXTRA COMPENSATION OR TIME EXTENSION WILL BE ALLOWED FOR ADDITIONAL WORK DIRECTLY ASSOCIATED WITH SPLITTING, EXCAVATION, CRUSHING, DISPOSAL, REPLACEMENT OF DISPLACED VOLUME OF EXTRACTED ROCK/ROCK-LIKE MATERIAL WITH FILL MATERIAL OR SPECIAL HANDLING OF ROCK/ROCK-LIKE MATERIAL.

PAY ITEM NOTES

630-2-11 & 630-2-12:
INTERCONNECT CONDUIT SHALL BE FOUR 1-1/4 INCH SDR 13.5 POLY CONDUIT BLUE, GREEN, ORANGE AND YELLOW COLOR. COPPER WIRE MUST BE INSTALLED FOR LOCATING PURPOSES, #10 CU AWG MINIMUM IN ORANGE CONDUIT. ORANGE LOCATE WIRE SHALL ONLY BE SPLICED IN PULL BOXES AND SPLICED WITH SPLIT BOLT AND INSULATED PER NEC. MUST BE CONTINUOUS RUN WITH NO SPLICES.

CONDUITS CROSSING ALL STREETS SHALL BE MINIMUM OF FIVE (5) EACH 2 INCH HDPE CONDUITS. ALL CONDUIT UNDER PROPOSED ROADWAY AND/OR SIDEWALK SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE OR CONCRETE. PVC CONDUIT SHALL BE SCHEDULE 40 OR 80 APPROVED FOR ELECTRICAL USE (GRAY). NO THIN WALL CONDUIT IS ALLOWED.

632-7-1:
EACH SIGNAL CABLE SHALL HAVE FOUR (4) SPARE WIRES OVER THE ENTIRE LENGTH ON SPAN WIRE INSTALLATION.

EACH SIGNAL PHASE SHALL HAVE ITS OWN NEUTRAL. EACH PEDESTRIAN PHASE SHALL HAVE ITS OWN NEUTRAL. SHARING OF A NEUTRAL IS NOT ALLOWED.

SIGNAL CABLE #14 AWG STRANDED COPPER SHALL BE USED UNLESS OTHERWISE SPECIFIED, AND SHALL MEET IMSA SPECIFICATIONS #19-1.

ALL PED BUTTONS SHALL BE WIRED WITH A (2) CONDUCTOR SHIELDED CABLE (BELDEN/HOMERUN TYPE CABLE). EACH BUTTON TO HAVE ITS OWN CABLE FROM THE SIGNAL CABINET. NO SPLICING ALLOWED.

SIGNAL CABLE SHALL BE ATTACHED TO THE MESSENGER BY MEANS OF TIE WRAPS AND LASHING ROD. LASHING ROD SHALL THREAD THROUGH THE DRIP LOOP.

USE SIGNAL CABLE FROM TRAFFIC SIGNAL CONTROLLER TO PUSH BUTTON IN THE FIRE STATION. THE COLOR CODE OF SIGNAL CABLE SHALL BE VERIFIED WITH LEE COUNTY TRAFFIC SECTION PRIOR TO WIRING INTERSECTION.

633-1-121 & 633-1-123:
INTERCONNECT CABLE SHALL BE CORNING BRAND 12 & 96 STRAND SINGLE MODE FIBER (ALTOS 8.3/125 LT DUCT/AERIAL .4/.3 DB/KM SMF28E). THIS IS AN ALL-DIELECTRIC, DRY FILLED LOOSE TUBE SINGLE MODE FIBER OPTIC CABLE. INSTALL IN BLUE CONDUIT. INTERCONNECT CABLE SHALL NOT SHARE A PULL BOX OR CONDUIT WITH OTHER CABLES.

635-2-11, 635-2-12 & 635-2-13:
PULL BOXES SHALL BE COMPOSITE CONSTRUCTION (QUAZITE) AND LOAD RATED 20,000 LBS. NO EXCEPTIONS WILL BE APPROVED. PULL BOX LIDS SHALL BE COMPOSITE CONSTRUCTION (QUAZITE) AND MARKED APPROPRIATELY. NO CONCRETE PULL BOXES OR STEEL LIDS SHALL BE ALLOWED.

PULL BOXES SHALL BE SIZED TO ACCOMMODATE MAXIMUM NUMBER OF PIPES ALLOWED PER NEC AND TO COMPLY WITH CABLE MANUFACTURER'S BEND RADIUS.

A PULL BOX WITH A MINIMUM COVER MEASUREMENT OF 24" X 36" X 24" SHALL BE USED ON INTERCONNECT BETWEEN CABINETS. COVER SHALL BE MARKED "LEE COUNTY FIBER". A SPLICE BOX WITH A MINIMUM COVER MEASUREMENT OF 30" X 48" X 24" SHALL BE USED ON INTERCONNECT AT CABINET LOCATIONS.

A PULL BOX WITH A MINIMUM COVER MEASUREMENT OF 17" X 30" X 12" SHALL BE USED ON TRAFFIC SIGNALS. COVER SHALL BE MARKED "TRAFFIC SIGNAL". CONTRACTOR IS RESPONSIBLE FOR APPROPRIATELY SIZING EACH PULL BOX SO THE COMMUNICATION AND/OR INTERCONNECT CABLE DOES NOT EXCEED MANUFACTURER'S RECOMMENDED BENDING RADIUS.

UTILITY OWNER	CONTACT	PHONE
SPRINT TELEPHONE	RON POP	(239) 336-2030
LEE COUNTY UTILITIES	VIOLET MOLNAR	(239) 479-8181
FLORIDA POWER & LIGHT	ROY GARRISON	(239) 332-9129
TECO PEOPLE GAS	PATTY MAYES	(239) 690-5513
COMCAST	TOM VANTOL	(239) 732-3854
AT & T	EUGENE FLICK	(239) 275-4146

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Liyanage Ratnayake, P.E.
P.E. License Number 77692
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2601 Cattlemen Road, Suite 400
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Certificate of Authorization 4213

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1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

PROJECT NOTES

SHEET NO. T-4

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639-1-122:
THIS ITEM SHALL INCLUDE THE COST OF ALL SPECIAL IMPACT CONNECTION FEES CHARGED BY LOCAL POWER COMPANIES FOR ELECTRICAL SERVICE CONNECTION.

ELECTRICAL SERVICE SHALL BE MINIMUM 60 AMP, 120/240 VOLT THREE-WIRE. DISCONNECT SHALL BE A SQUARE D QO6-12L100RB.

USE GALVANIZED RIGID CONDUIT (MINIMUM OF 1 INCH CONDUIT) SHALL BE USED FOR RISER AND WHERE EXPOSED ABOVE GROUND FOR ELECTRICAL POWER SERVICE.

ALL SERVICES SHALL BE METERED. A BY-PASS METER CAN SHALL BE INSTALLED ON EACH ELECTRIC SERVICE WHERE POWER IS SUPPLIED BY LCEC. INSTALL A JOSLYN LDP20-120-2 OR EQUIVALENT SURGE ARRESTOR TO ELECTRIC SERVICE DISCONNECT.

WHEN AN ELECTRICAL SERVICE IS MORE THAN 50 FEET FROM THE TRAFFIC SIGNAL CABINET, OR STREET LIGHT CABINET, A DISCONNECT MEANS SHALL BE INSTALLED ON A CONCRETE METER POST ADJACENT TO THE CABINET. THIS ALSO APPLIES TO SERVICES ACROSS THE STREET.

CIRCUIT BREAKER FOR CABINET SHALL BE 110V, 30 AMP BRAKER; CIRCUIT BREAKER FOR LIGHTED SIGNS SHALL BE 110V, 15 AMP BREAKER; CRICUIT BREAKER FOR STREET LIGHTS SHALL BE 120/240V, 15 AMP. EACH 15 AMP BREAKER TO HAVE OWN PHOTOCELL. PHOTOCELL SHALL BE A MINIMUM OF 1800 WATTS.

639-2-1:
PAYMENT SHALL BE BASED ON THE LINEAR FOOT OF RUN.

IN ADDITION TO THREE SERVICE WIRES, THIS ITEM SHALL INCLUDE A BONDING WIRE FROM ELECTRICAL SERVICE POINT TO CONTROLLER.

641-2-15, 641-2-16 & 641-2-18:
SUPPLY A ONE INCH SCHEDULE 40 PVC CONDUIT FROM CABINET BASE TO OUTSIDE OF NEAREST CONCRETE SIGNAL POLE, STUB UP TWO FEET.

646-1-11:
MOUNT PEDESTRIAN POLES ON BREAKAWAY BASES WITH LOCKING SET SCREW AND GROUND LUG. USE FOUR INCH ID ALUMINUM CONDUIT FOR PED POLES. SIGNAL CABLE SHALL BE SPLICED IN BASE OF PEDESTAL (NOT IN PEDESTRIAN HEADS) WITH RED BUCHANON B2 B-CAP WIRE NUTS.

650-1-14 & 650-1-16:
METAL HEADS SHALL BE USED UNLESS OTHERWISE APPROVED BY LEE COUNTY. ALL SIGNAL HEAD SECTIONS SHALL BE APPROVED LED TYPE. ALL SIGNAL HEADS AND LEDS SHALL BE NEW AND UNIFORM FOR EACH INTERSECTION. ALL SIGNAL HEADS SHALL HAVE BACK PLATES WITH YELLOW REFLECTIVE BORDERS.

NO HARNESS SHALL BE USED IN SPAN WIRE MOUNTED SIGNAL HEADS. USE #14 STRANDED (THHN) COPPER RED, YELLOW, GREEN, AND WHITE WIRE.

653-1-11:
PEDESTRIAN SIGNALS SHALL BE INTERNATIONAL SYMBOL LED COUNTDOWN WITH DIFFUSER HEADS AND EGG CRATE VISOR. ALL ATTACHING HARDWARE SHALL BE STAINLESS STEEL 304 OR 316.

MOUNTING HEIGHT OF PEDESTRIAN HEAD SHALL BE 9 FEET 6 INCHES ABOVE GRADE TO BOTTOM OF HEAD.

660-4-12:
ITERIS SMARTSPAN IS THE PREFERRED VIDEO DETECTION FOR LEE COUNTY. CAMERAS WILL BE MOUNTED TO CATENARIES. COST OF THIS ITEM SHALL ALSO INCLUDE EDGE CONNECT CARD FOR REMOTE ACCESS. WHERE CAMERAS ARE TO BE INSTALLED ON FINAL PROJECT, CONTRACTOR IS TO PURCHASE AT BEGINNING OF PROJECT AND INSTALL BEFORE DETECTION IS LOST AS TEMPORARY DETECTION.

THE COST OF THIS ITEM SHALL ALSO INCLUDE AN ITERIS REPRESENTATIVE TO BE ON-SITE DURING INSTALLATION AND SETUP TO PROGRAM THE CAMERAS.

VIRTUAL LOOP SIZES SHALL BE AS FOLLOWS:
A. DETECTION ZONES FOR SIDE STREETS SHALL BE 6' X 30' EXTENDING 2' IN FRONT OF STOP BARS.

B. DETECTION ZONES FOR MAIN STREETS SHALL BE 6'X6' FOR THROUGH LANES EXTENDING 50' BACK FROM STOP BAR AND 6' X 30' FOR LEFT TURN LANES EXTENDING 2' IN FRONT OF STOP BARS.

665-1-12:
SHALL BE POLARA EZ COMMUNICATOR NAVIGATOR 2-WIRE (EN2) AND EZ COMMUNICATOR CENTRAL CONTROL UNIT WITH ETHERNET (CCU2EN) POLARA EN2 TO HAVE STREET NAMES PROGRAMMED BY POLARA. LEE COUNTY WILL RECEIVE THE VOICE FILES FOR THE INTERSECTION. EACH INSTALL WILL INCLUDE AN EZ COMMUNICATOR NAVIGATOR CONFIGURATOR. CONTRACTOR WILL BRING ALL EN2'S AND CCU2EN'S TO LEE COUNTY FOR AUDIBLE PEDESTRIAN SPECIFICATIONS PROGRAMMING, IP ADDRESS AND SW UPGRADE (IF NEEDED.)

LEE COUNTY WILL LABEL WHERE EACH EN2 SHALL GO AFTER BEING PROGRAMMED.

BELDIN CABLE SHALL BE USED FOR EACH EN2. BELDIN WIRE WILL BE USED ON ALL PEDESTRIAN BUTTONS.

670-5-112:
CONTROLLER BASE SHALL BE COMPOSITE CONSTRUCTION (QUAZITE) EQUAL TO QUAZITE P/N: PB49058I224B24. BURY CABINET BASE TO MANUFACTURER'S RECOMMENDED DEPTH.

ELEVATION OF CABINET BASE SHALL BE AT THE SAME ELEVATION AS THE CENTER OF ROADWAY, BUT NO HIGHER THAN TWELVE (12) INCHES ABOVE THE CENTER OF ROADWAY. BASE SHALL HAVE A TWELVE-INCH (12") BED OF PEA ROCK OR CRUSHED STONE FOR DRAINAGE. GRAVEL SHALL BE 57 STONE OR EQUIVALENT. STUB UP CONDUITS SHALL BE NO LOWER THAN TWELVE (12) INCHES AND NO HIGHER THAN SIX (6) INCHES BELOW THE ACCESS HOLE IN THE CABINET PAD. SPARE CONDUITS FROM CABINET BASE SHALL TERMINATE AT A PULL BOX IN FRONT OF THE BASE AND SHALL BE SEALED WITH DUCT SEAL OR CAPPED.

A PRECAST CONCRETE PAD SHALL BE PLACED IN FRONT OF THE CABINET BASE. IT SHALL BE THE LENGTH OF THE BASE AND A MINIMUM THIRTY (30) INCHES WIDE AND 4 INCHES THICK. CONTRACTOR'S OPTION TO POUR IN PLACE. COST OF CONCRETE PAD WILL BE INCLUDED IN THE COST OF THIS ITEM.

CONTROLLER SHALL BE ECONOLITE ASC-3/1000 WITH TELEMETRY. CONFLICT MONITOR SHALL BE MMU-16LE1p. CABINET SHALL BE 16 POSITION TS-2 TYPE 1 WITH 8 PHASES, 4 OVERLAPS, AND 4 PEDS TO BE CHANNELS 13 THRU 16, SHALL HAVE ALL PANELS REQUIRED TO CONNECT TO LEE COUNTY ECONOLITE CLOSED LOOP SYSTEM. SHALL INCLUDE A PED ISOLATION BOARD, RACK DETECTORS WITH MINIMUM OF 16 CHANNELS OF DETECTION AND 2-CHANNELS OF PRE-EMPTION OR USE TERRA INTERFACE PANEL AND TERRA ACCESS POINT ON INTERSECTION WITH VIDEO LOAD RESISTORS ON ALL OUTPUTS. PENDENT HARD WIRED.

COORDINATION UNITS SHALL HAVE CAPABILITIES OF GENERATING SEPARATE FORCEOFFS AND PERMISSIVE PERIODS FOR MOVEMENTS 1, 3, 4, 5, 7 AND/OR 8.

INSTALL GEN-TRAN TRANSFER SWITCH TS3001130PL-30, 30AG, 125VAC. PRIOR TO INSTALL, CHECK WITH MAINTAINING AGENCY FOR LOCATION ON CABINET.

684-1-1:
THIS ITEM SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING AN ITS EXPRESS ITS-8012V12 MANAGED ETHERNET SWITCH. THE COST FOR THIS ITEM SHALL ALSO INCLUDE THE FURNISHING AND INSTALLATION OF CAT 5E CABLES WITH RJ-45 CONNECTOR AT EITHER END FOR CONNECTING OTHER DEVICES INSIDE THE CABINET TO ETHERNET SWITCH. IT SHALL INCLUDE ALL REQUIRED JUMPERS OR PATCH CORDS NEEDED TO ESTABLISH A FUNCTIONAL SYSTEM.

685-106:
UPS MODEL PREFERRED BY LEE COUNTY IS US TRAFFIC CORP POWERBACK 2000 MODEL # PB 2000 ITS. UPS UNIT SHALL BE SECURED TO THE RIGHT HAND SIDE OF THE SIGNAL CABINET AND WILL BE SUPPORT ON THE BOTTOM BY THE QUAZITE BASE OR AN APPROVED INDEPENDENT MEANS.

685-161:
MODEM INSTALLED IN SIGNALIZATION CABINET AT INTERSECTION OF HOMESTEAD ROAD & ALABAMA ROAD/LEELAND HEIGHTS BLVD SHALL BE SIERRA WIRELESS AIRLINK MODEL ES450.

MODEM FOR FLASHING BEACON SHALL BE RTC MANUFACTURING 3G M2M WITH 5 YEAR SERVICE PLAN. MODEM WILL NOT BE ACTIVATED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH JAMES FENCIL AT LEE COUNTY DOT TRAFFIC FOR ACTIVATION AND TIME SWITH PROGRAMING.

700-5-22:
ALL INTERNALLY ILLUMINATED STREET NAME SIGNS TO BE MOUNTED RIGIDLY VIA PELCO BRACKET ON CONCRETE STRAIN POLES. CONNECT LED INTERNALLY ILLUMINATED STREET NAME SIGNS TO THE ELECTRICAL SERVICE. SEPARATE CONDUCTOR SHALL FEED EACH SIGN. NO SIGNAL CABLE CONDUCTORS SHALL BE USED TO POWER STREET NAME SIGNS. A SEPARATE BREAKER AND PHOTO CONTROL SHALL BE INSTALLED. ALL CABLE FOR LIGHTED SIGNS SHALL BE KEPT SEPARATE FROM THE SIGNAL CABINET. A SEPARATE BREAKER AND ONE PHOTO CELL TO CONTROL ALL LIGHTED SIGNS AT INTERSECTION, INSTALLED IN SERVICE DISCONNECT.

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(239) 479-8900 www.lee-county.com/publicworks/dotlitle.htm
DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

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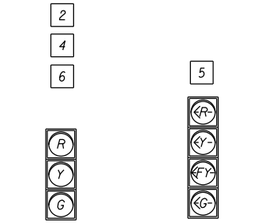
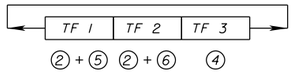
PROJECT NOTES

SHEET NO.
T-5

SIGNAL HEAD DETAILS





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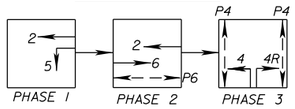


PEDESTRIAN HEAD DETAILS

PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
6 AS
653-1-11

PEDESTRIAN DETECTOR SIGN

6 EA
FTP-68B-06
9" X 15"

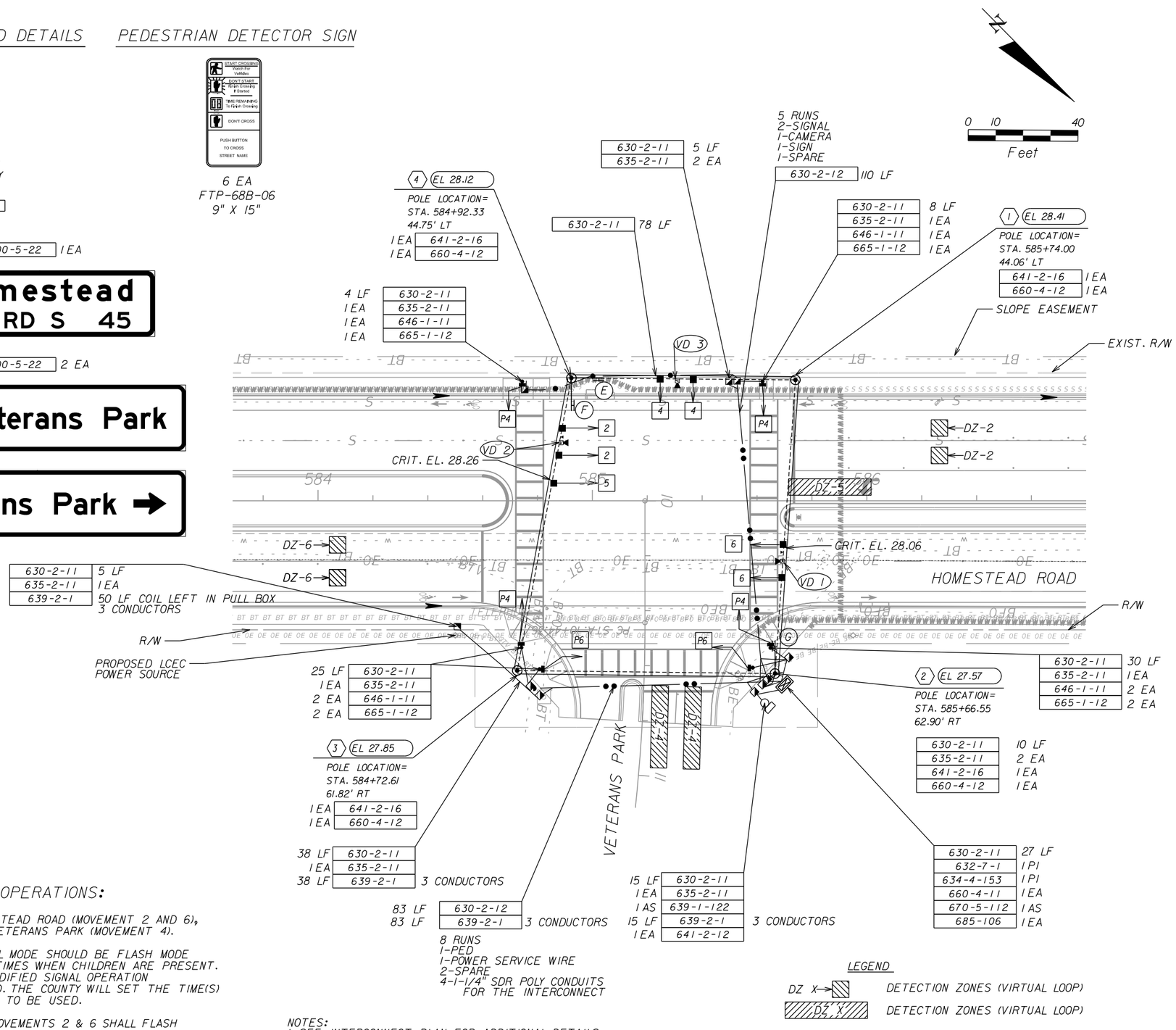
700-5-22 1 EA

(E) **Homestead**
51 RD S 45

700-5-22 2 EA

(F) **← Veterans Park**

(G) **Veterans Park →**



CONTROLLER TIMINGS						
TIMING FUNCTION						
MOVEMENT NUMBER		2	4	5	6	
TIMING FUNCTION	MINIMUM GREEN	20	10	7	20	
	EXTENSION	3	3	3	3	
	MAXIMUM GREEN 1	35	26	25	35	
	MAXIMUM GREEN 2					
	YELLOW CLEARANCE	4.8	3.4	4.8	4.8	
	ALL RED	2	2.6	2	2	
	PEDESTRIAN WALK		7		7	
	PED. CLEARANCE		24		17	
	RECALL	MAX			MAX	

VIDEO VEHICLE DETECTION ASSIGNMENTS			
CAMERA DETECTION	DETECTION ZONE	CONNECT TO TIMING FUNCTION	DELAY TIME (SECS.)
VD 1	DZ 6	TF 2	
VD 2	DZ 2	TF 2	
	DZ 5	TF 1	5
VD 3	DZ 4	TF 3	5

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

CONTROLLER OPERATIONS:

MAJOR STREET IS HOMESTEAD ROAD (MOVEMENT 2 AND 6), AND MINOR STREET IS VETERANS PARK (MOVEMENT 4).

THE NORMAL OPERATIONAL MODE SHOULD BE FLASH MODE EXCEPT DURING SCHOOL TIMES WHEN CHILDREN ARE PRESENT. DURING SCHOOL TIMES, MODIFIED SIGNAL OPERATION PLAN 12 SHOULD BE USED. THE COUNTY WILL SET THE TIME(S) OF DAY THAT PLAN 12 IS TO BE USED.

WHILE IN FLASH MODE, MOVEMENTS 2 & 6 SHALL FLASH YELLOW AND MOVEMENTS 4 & 5 SHALL FLASH RED.

NOTES:
1. SEE INTERCONNECT PLAN FOR ADDITIONAL DETAILS.

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

SIGNALIZATION PLAN
VETERANS PARK

SHEET NO. T-6

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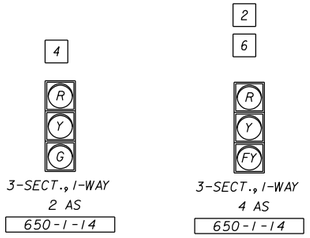
SIGNAL HEAD DETAILS



4 — 3-SECT., 1-WAY, 2 AS — 650-1-14

2, 6 — 3-SECT., 1-WAY, 4 AS — 650-1-14

EMERGENCY SIGNAL (Z)

700-3-201 2 EA
R10-13
42" x 30"

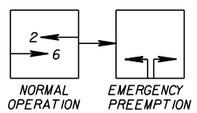
CONTROLLER OPERATIONS:

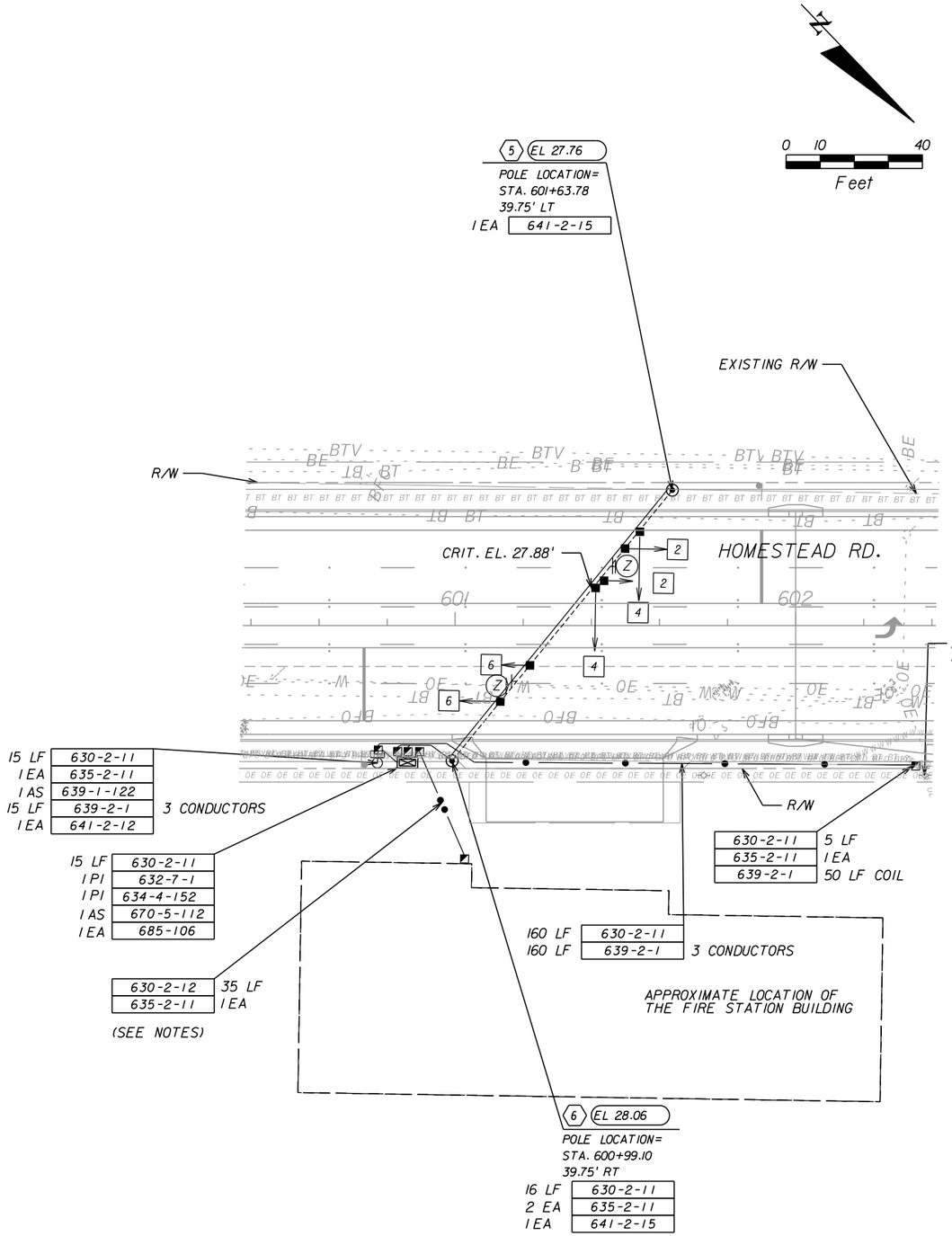
1. MAJOR STREET IS HOMESTEAD ROAD (MOVEMENT 2 AND 6), AND MINOR STREET IS FIRE STATION DRIVEWAY (MOVEMENT 4).
2. BETWEEN EMERGENCY VEHICLE ACTUATIONS, MOVEMENTS 2 & 6 SHALL FLASH YELLOW, MOVEMENT 4 SHALL FLASH RED.
3. WHEN AN EMERGENCY VEHICLE ACTUATION OCCURS, MOVEMENTS 2 & 6 SHALL DISPLAY A STEADY YELLOW INTERVAL (MINIMUM OF 4.8 S) FOLLOWED BY A STEADY RED INTERVAL (MINIMUM OF 2 S).
4. THE FLASHING YELLOW FOR THE MOVEMENTS 2 & 6 SHALL BE DISPLAYED IN THE NORMAL POSITION OF THE STEADY GREEN.
5. EMERGENCY VEHICLE ACTUATION TO BE CONTROLLED BY USING A PUSH BUTTON INSTALLED INSIDE THE FIRE STATION.
6. PREEMPTION TIMING TO BE PROVIDED BY LEE COUNTY.

NOTES:

1. EXACT LOCATION OF THE PREEMPTION ACTIVATION BUTTON SHOULD BE DETERMINED AFTER CONSULTING THE FIRE STATION OFFICIALS.
2. THE PULL BOX NEAR THE FIRE STATION AND THE PREEMPTION ACTIVATION BUTTON INSIDE THE FIRE STATION SHOULD BE FIELD LOCATED DURING CONSTRUCTION.
3. LENGTH OF THE CONDUIT AND THE SIGNAL CABLE IS APPROXIMATE ONLY. THE ACTUAL LENGTH SHOULD BE DETERMINED BASED ON THE LOCATION OF THE PREEMPTION ACTIVATION BUTTON.

SIGNAL OPERATION PLAN





SEE INTERCONNECT PLAN FOR INTERCONNECT CONDUIT AND PULL BOX DETAILS.

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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

CROCKSWO

SIGNALIZATION PLAN
FIRE STATION

SHEET NO. T-7

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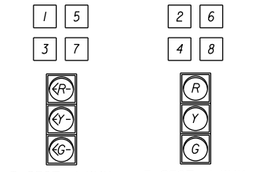
SIGNAL HEAD DETAILS



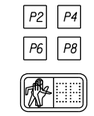
3-SECT., 1-WAY
8 AS
650-1-14

3-SECT., 1-WAY
10 AS
650-1-14

PEDESTRIAN DETECTOR SIGN

8 EA
FTP-68B-06
9" X 15"

PEDESTRIAN HEAD DETAILS



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
8 AS
653-1-11

700-5-22 2 EA

Ⓐ ← Alabama
Leeland Heights →

Ⓑ ← Leeland Heights
Alabama →

700-5-22 2 EA

Ⓒ Homestead
60 RD N 10

Ⓓ Homestead
10 RD N 60

R3-4MOD
24" x 36"
700-3-201 1 EA

REMOVAL ITEMS

632-7-6	1 PI
641-2-70	2 EA
646-1-60	1 EA
670-5-600	1 EA

CONTROLLER OPERATIONS:

1. MAJOR STREET IS HOMESTEAD ROAD (MOVEMENTS 2 AND 6), AND MINOR STREET IS ALABAMA ROAD/LEELAND HEIGHTS BOULEVARD (MOVEMENT 4 AND 8).
2. SIGNAL OPERATION PLAN 10.

CONTROLLER TIMINGS

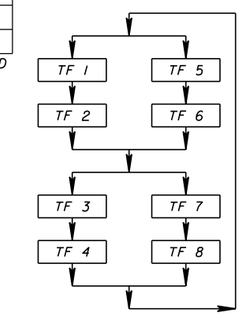
TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
TIMING FUNCTION	MINIMUM GREEN	7	20	7	10	7	20	7	10
	EXTENSION	3	3	3	3	3	3	3	3
	MAXIMUM GREEN 1	25	80	20	30	25	80	20	30
	MAXIMUM GREEN 2								
	YELLOW CLEARANCE	4.4	4.4	4.4	4.0	4.4	4.4	4.0	4.4
	ALL RED	2.2	2.0	2.0	2.0	2.0	2.1	2.0	2.1
	PEDESTRIAN WALK		7		7		7		7
	PED. CLEARANCE		20		25		26		20
	RECALL		MAX				MAX		

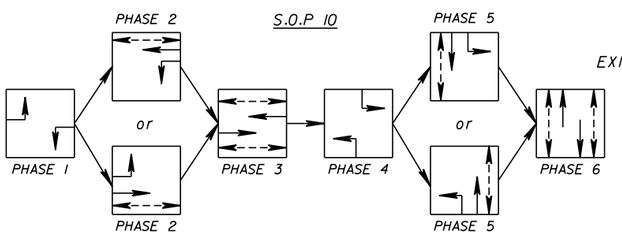
TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

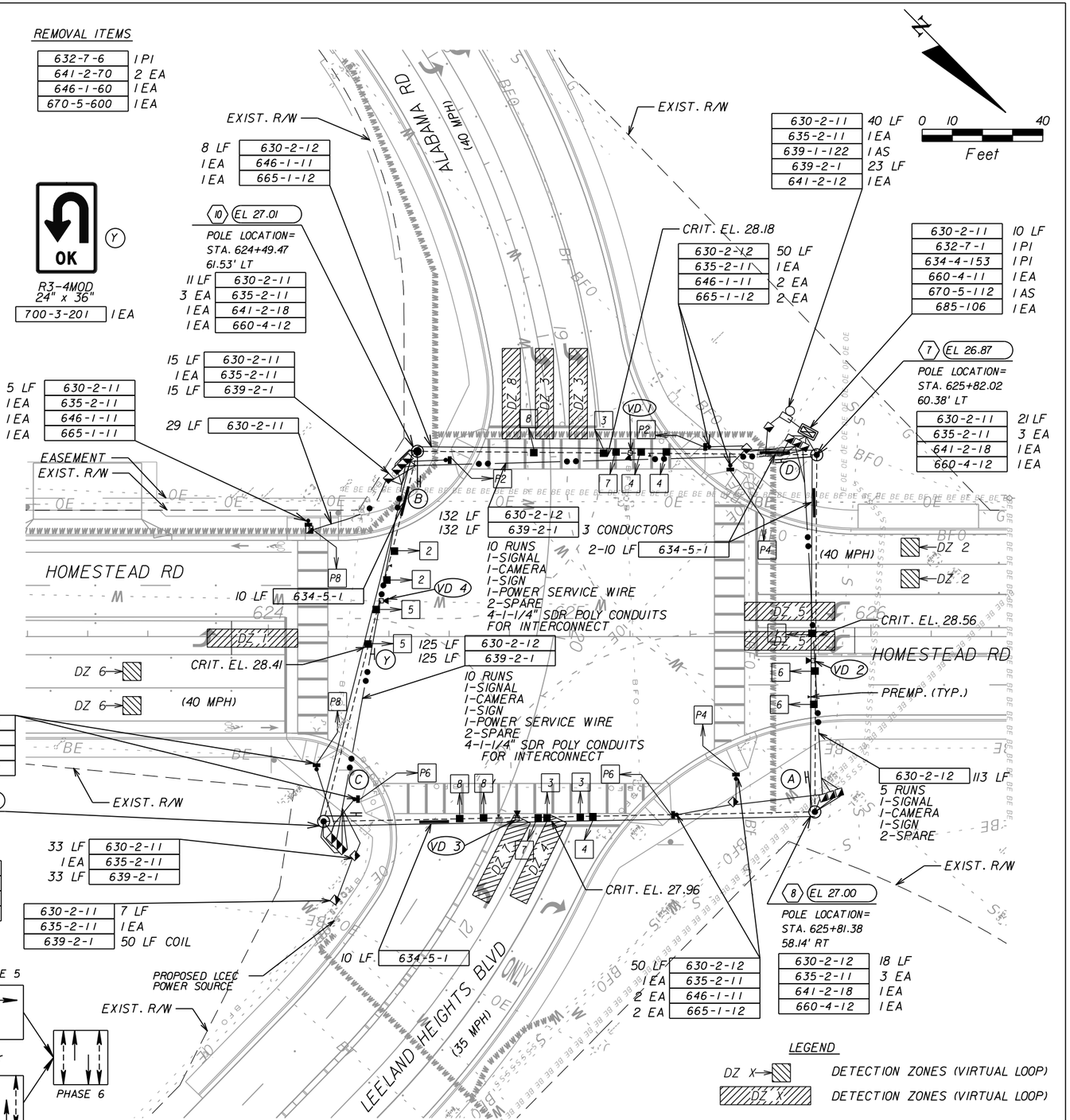
VIDEO VEHICLE DETECTION ASSIGNMENTS

CAMERA DETECTION	DETECTION ZONE	CONNECT TO TIMING FUNCTION	DELAY TIME (SECS.)
VD 2	DZ 1	TF 1	5
	DZ 6	TF 6	
	DZ 6	TF 6	
VD 3	DZ 3	TF 3	5
	DZ 3	TF 3	5
	DZ 8	TF 8	
VD 4	DZ 2	TF 2	
	DZ 2	TF 2	
	DZ 5	TF 5	5
	DZ 5	TF 5	5
VD 1	DZ 4	TF 4	
	DZ 7	TF 7	5

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.







LEGEND

DZ X — DETECTION ZONES (VIRTUAL LOOP)
DZ X — DETECTION ZONES (VIRTUAL LOOP)

NOTES:
1. SEE INTERCONNECT PLAN FOR INTERCONNECT CONDUIT AND PULL BOX DETAILS.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Liyanage Ratnayake, P.E.
P.E. License Number 77692
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

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LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET
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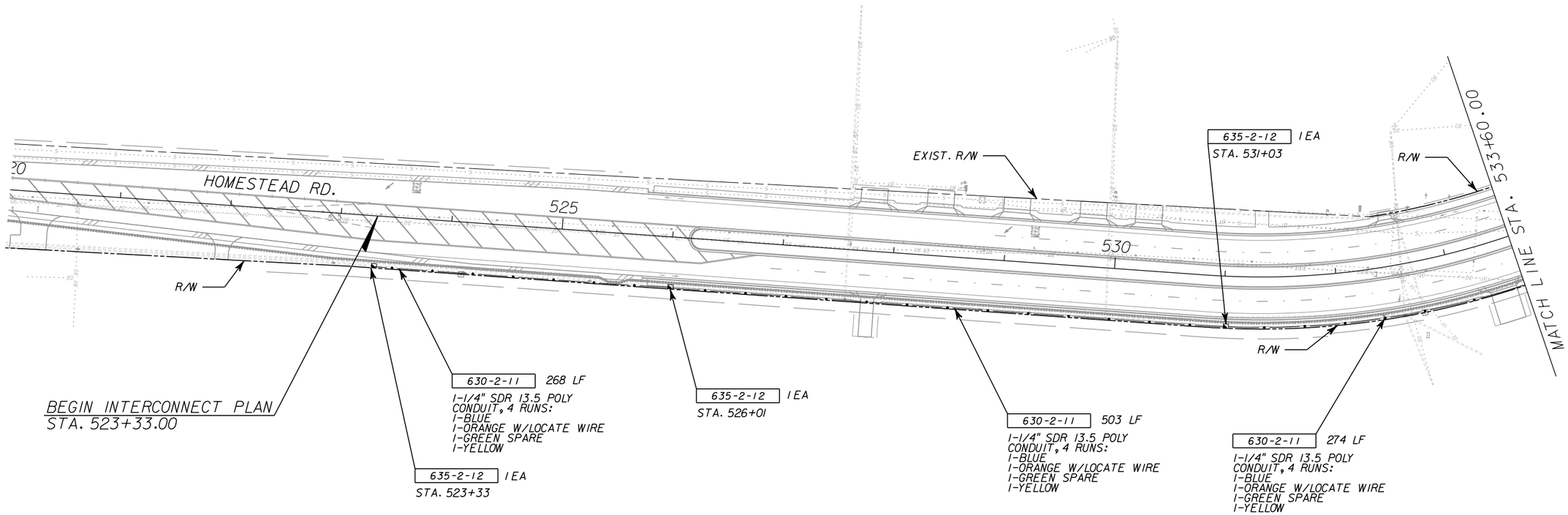
DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

SIGNALIZATION PLAN
ALABAMA RD. / LEELAND HEIGHTS BLVD.

SHEET NO. T-8

CROCKSWO 9/13/2016 10:08:04 AM PW:\2021\6\0000000000053055\V3.00_CAD\Homestead\signals\PLANSG03.DGN



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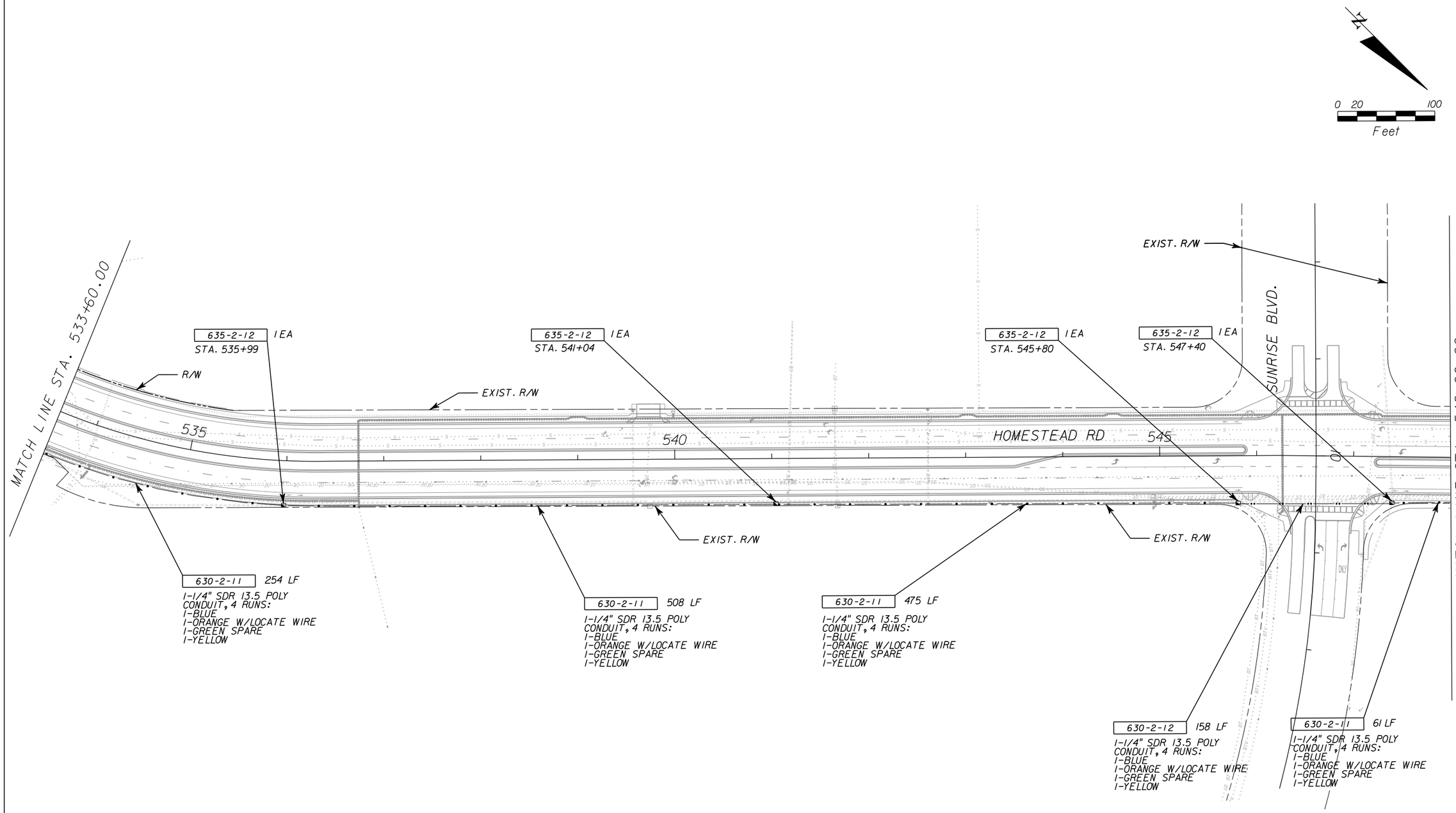
DEPARTMENT of TRANSPORTATION

CROCKSWO

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO. T-9

9/13/2016 10:31:22 AM PW:\2021\6\0000000053055\3.00_CAD\Homestead\Signals\PLANSG04.dgn



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TRANSPORTATION

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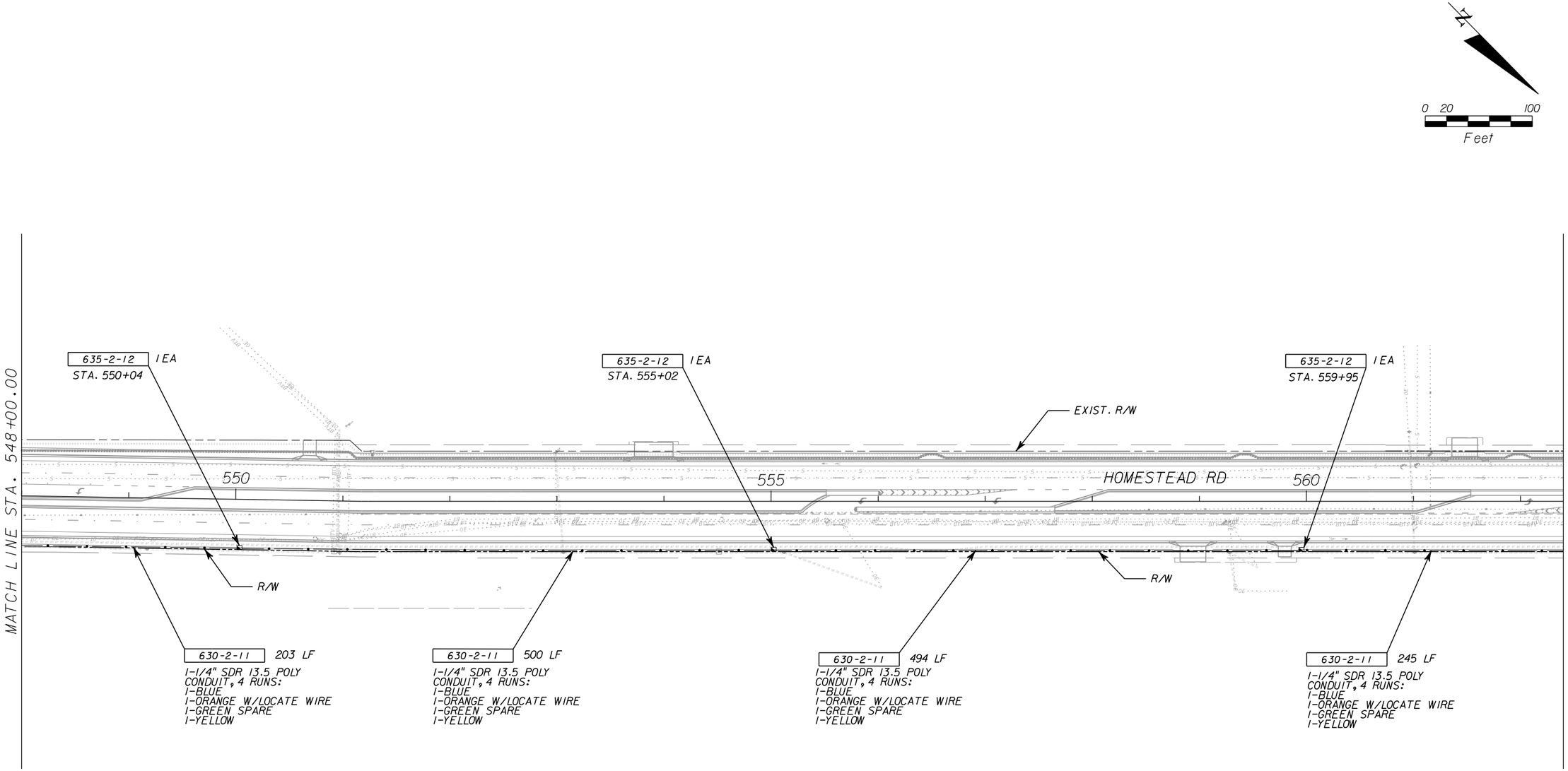
CROCKSWO

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO.
T-10

9/13/2016 10:06:52 AM PW:\2021\6\00000000053055\3.00_CAD\Homestead\Signals\PLANSG05.dgn



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DEPARTMENT of TRANSPORTATION

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO. T-11

CROCKSWO 9/13/2016 10:32:32 AM P:\2021I6\000000000053055\3.00_CAD\Homestead\Signals\PLANSG06.dgn

N

0 20 100
Feet

MARBLE BROOK BLVD.

MATCH LINE STA. 562+40.00

635-2-12 1 EA
STA. 565+08

635-2-12 1 EA
STA. 570+22

635-2-12 1 EA
STA. 571+41

635-2-12 1 EA
STA. 574+61

EXIST. R/W

565

570

HOMESTEAD RD

575

EXIST. R/W

MATCH LINE STA. 576+80.00

R/W

R/W

VETERANS PARK

630-2-11 269 LF
1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-11 514 LF
1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-12 120 LF
1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-11 320 LF
1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-11 219 LF
1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

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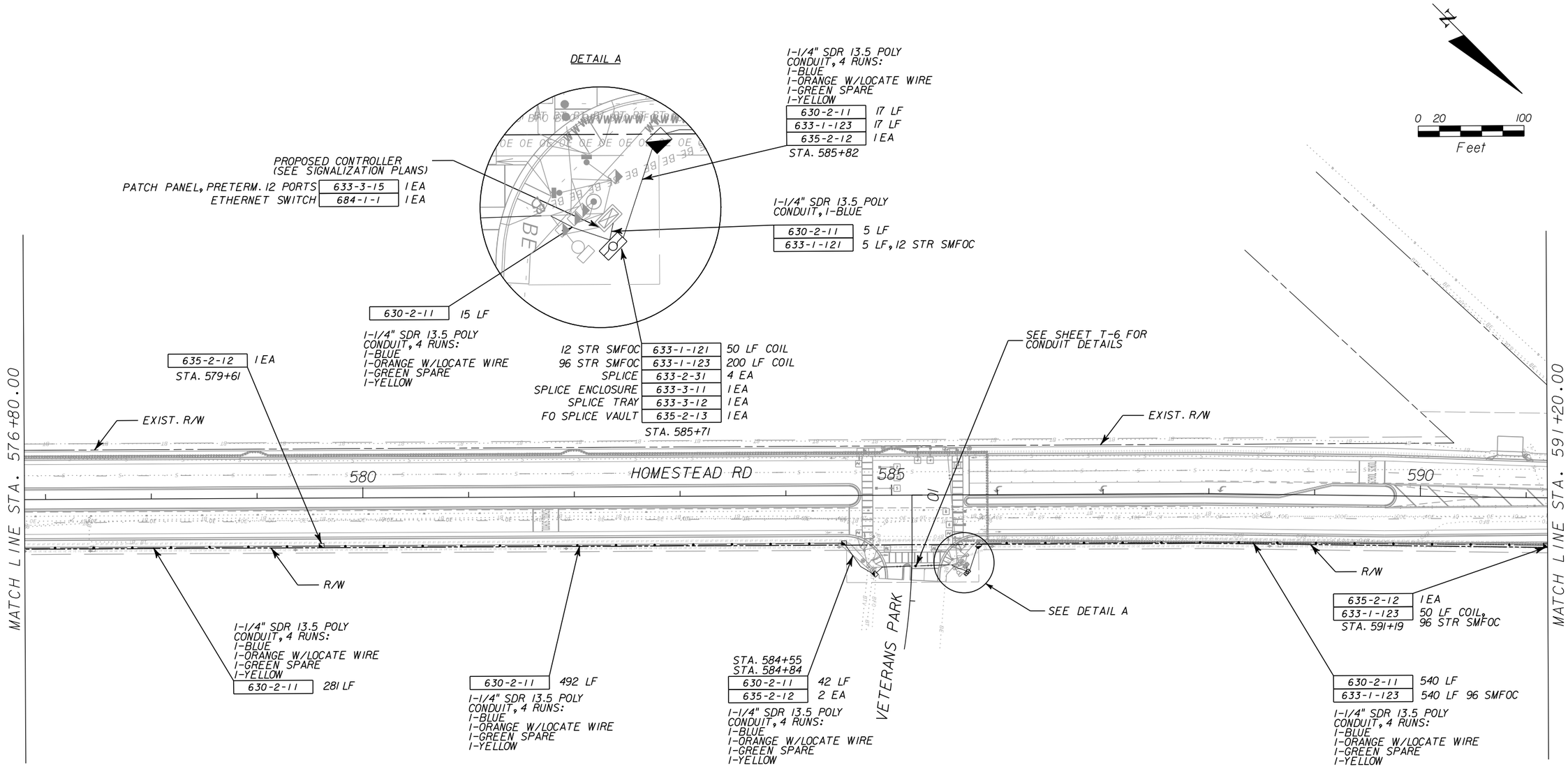
FORT MYERS, FLORIDA 33901

CROCKSW0

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO.
T-12

9/13/2016 10:33:31 AM PW:\2021\6\00000000053055\3.00_CAD\Homestead\Signals\PLANSG07.dgn



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DEPARTMENT
of
TRANSPORTATION

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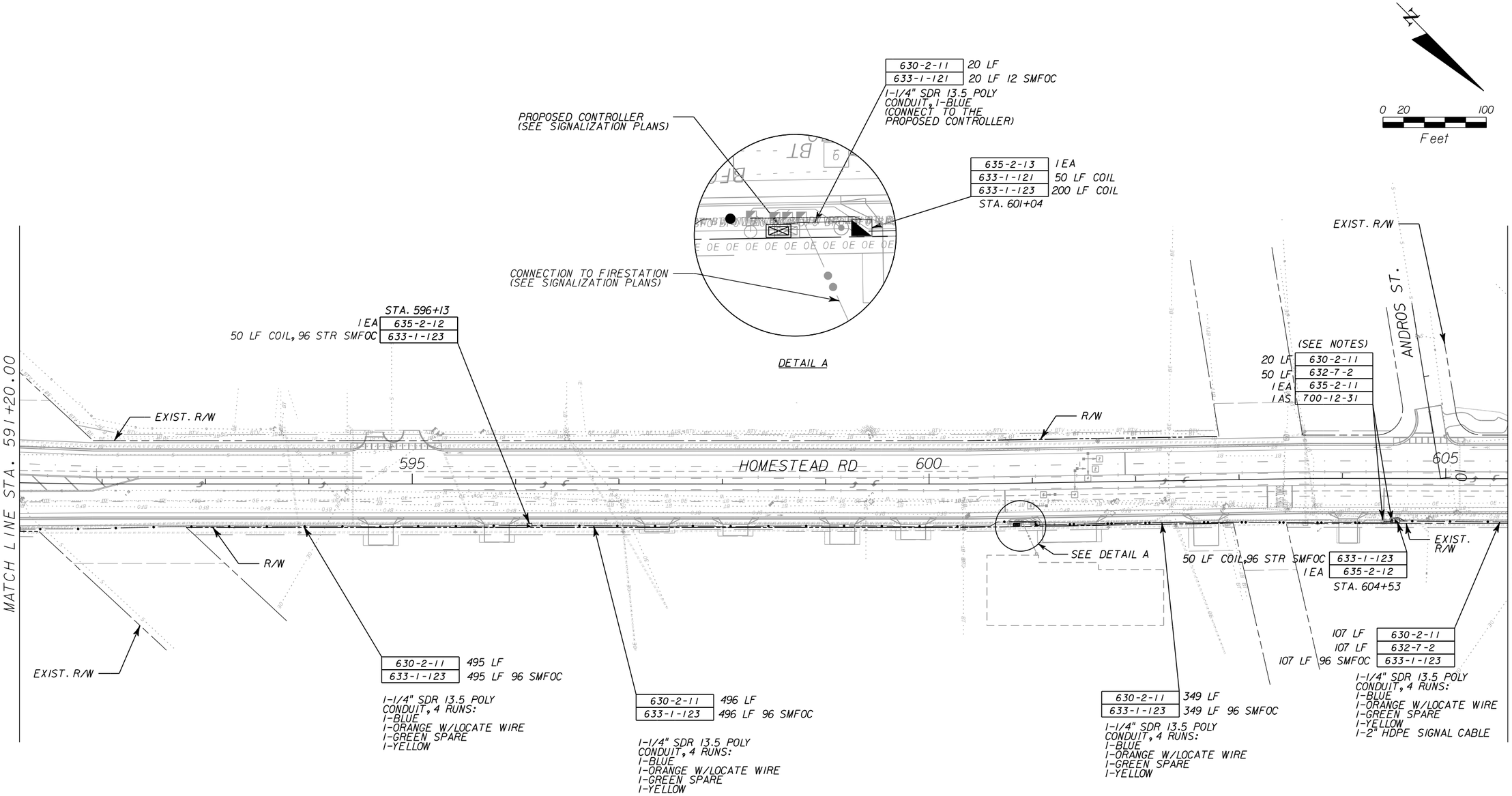
INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO.
T-13

CROCKSWO 9/13/2016 9:44:34 AM PW:\2021\6\0000000053055\V3.00_CAD\Homestead\signals\PLANSG08.dgn



NOTES:

1. INSTALL SIGNAL CABLE (IMSA 5) FROM SCHOOL FLASHER CABINET TO THE

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CROCKSWO

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO.
T-14

9/13/2016 11:43:20 AM PW:\2021\6\0000000005305\V3.00_CAD\Homestead\Signals\PLANSG09.dgn

NOTES:

1. MOUNT RTC MANUFACTURING AC POWERED SCHOOL FLASHER CABINET ON THE OPPOSITE SIDE OF CONCRETE SERVICE POLE FROM THE SERVICE METER AND DISCONNECT ASSEMBLIES. INSTALL RTC MANUFACTURING AP 22 TIME SWITCH AND 3G M2M MODEM IN SCHOOL FLASHER CABINET.

2. INSTALL SIGNAL CABLE (IMSA 5) FROM SCHOOL FLASHER CABINET TO THE FLASHING BEACONS THROUGH MAST ARM UPRIGHTS. THE CABLE SHALL BE SPLICED INSIDE THE MAST ARM UPRIGHT HANDHOLE.

N

0 20 100
Feet

MATCH LINE STA. 605+60.00

LIVE

12 LF, 1 RUN 2" HDPE

(SEE NOTES)

630-2-11	12 LF
632-7-2	12 LF
635-2-11	1 EA
685-161	1 EA
700-12-31	1 AS

R/W

EXIST. R/W

20

01

ARTHUR AVE.

630-2-11	6 LF, 1 RUN 2" HDPE
639-1-122	1 AS
639-2-1	170 LF
641-2-12	1 EA

630-2-12	75 LF, 2-2" HDPE, 1 SPARE
632-7-2	75 LF

165 LF | 630-2-12 | 1-2" HDPE SERVICE WIRE

PROPOSED LCEC POWER SOURCE

635-2-11	1 EA

EXIST. R/W

610

635-2-11 1 EA

50 LF COIL, 96 STR SMFOC

633-1-123	
635-2-12	1 EA

STA. 608+68

630-2-11	302 LF
632-7-2	302 LF
633-1-123	302 LF 96 SMFOC

1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW
1-2" HDPE SIGNAL CABLE

R/W

01

ADAMS AVE.

1 EA | 635-2-12
F COIL, 96 STR SMFOC | 633-1-123

STA. 611+82

630-2-11	320 LF
633-1-123	320 LF 96 SMFOC

1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

615

HOMESTEAD RD

635-2-12	1 EA
633-1-123	50 LF COIL, 96 STR SMFOC

STA. 614+29

1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-12	247 LF
633-1-123	247 LF 96 SMFOC

1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-11	491 LF
633-1-123	491 LF 96 SMFOC

EXIST. R/W

R/W

1-1/4" SDR 13.5 POLY CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/LOCATE WIRE
1-GREEN SPARE
1-YELLOW

630-2-11	80 LF
633-1-123	80 LF 96 SMFOC

1 EA | 635-2-12
50 LF COIL, 96 STR SMFOC | 633-1-123

STA. 619+20

MATCH LINE STA. 620+00.00

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PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA

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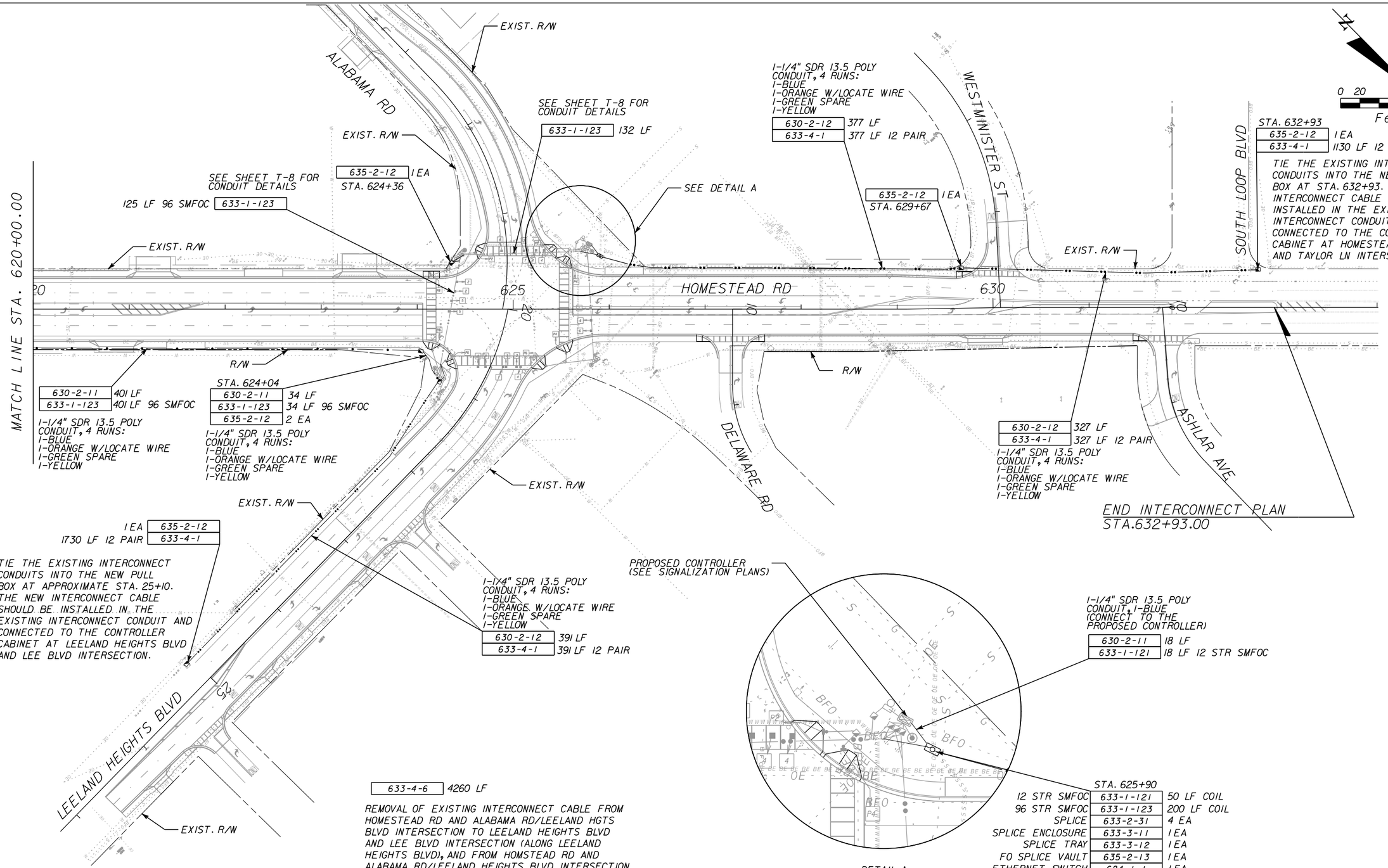
CROCKSWO

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO.
T-15

9/13/2016 11:55:32 AM PW:\2021\6\00000000053055\3.00_CAD\Homestead\Signals\PLANSG10.dgn



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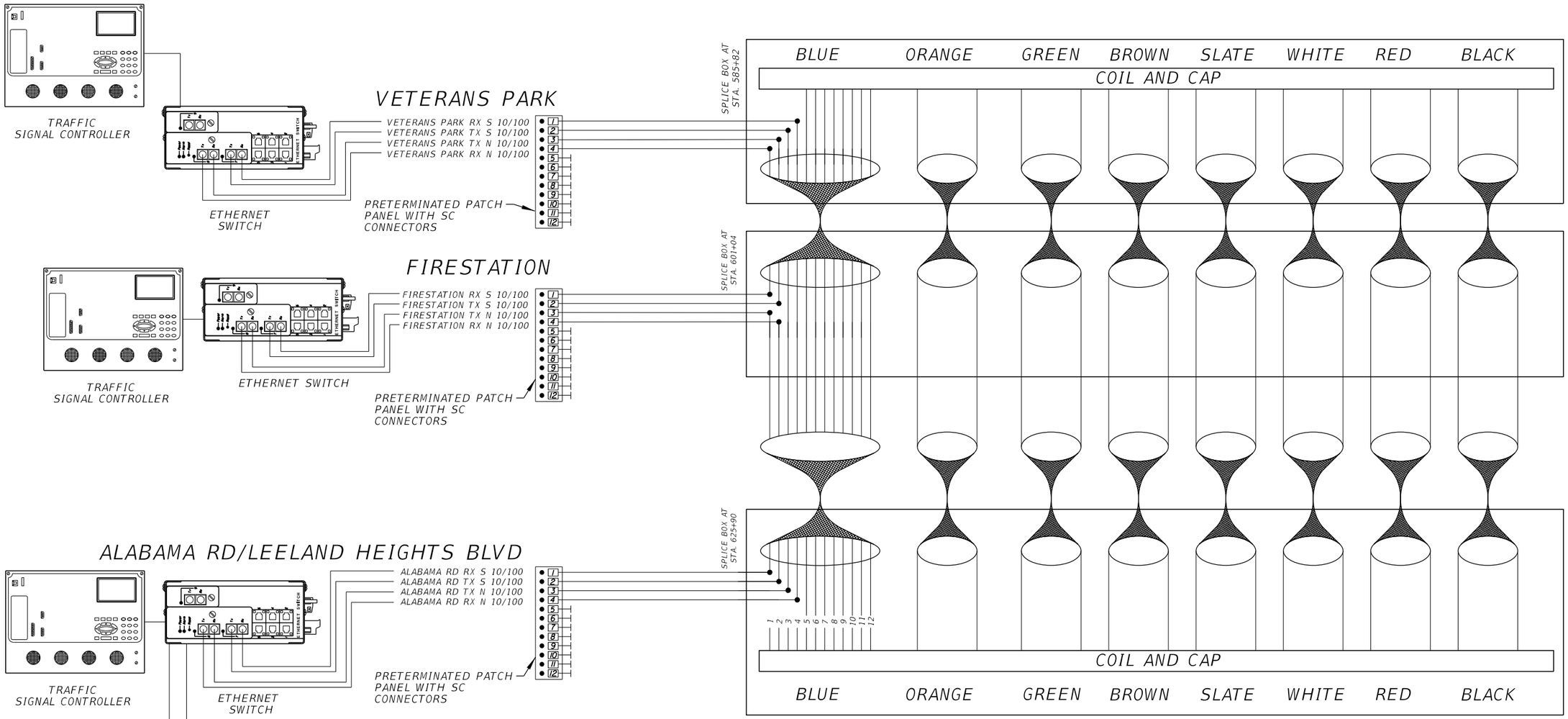
DEPARTMENT of TRANSPORTATION

INTERCONNECT PLAN
HOMESTEAD RD.

SHEET NO. T-16

CROCKSWO 9/13/2016 9:56:00 AM PW:\2021\6\000000000053055\3.00_CAD\Homestead\Signals\PLANSGII.DGN



COLOR CODE TIA/EIA 598A		
	(1) BLUE	(7) RED
	(2) ORANGE	(8) BLACK
	(3) GREEN	(9) YELLOW
	(4) BROWN	(10) VIOLET
	(5) SLATE	(11) ROSE
	(6) WHITE	(12) AQUA

NOTES:

1. UNUSED FIBERS SHALL BE LEFT COILED, CAPPED, AND STORED IN SPLICE BOX.
2. UNUSED BUFFER TUBES SHALL BE LEFT COILED AND STORED IN SPLICE TRAY.

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DEPARTMENT of TRANSPORTATION

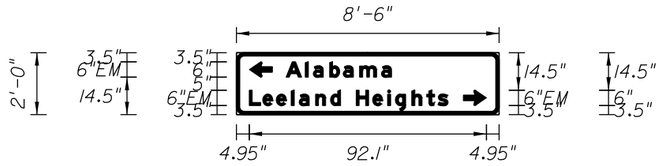
SPLICE DIAGRAM

SHEET NO. T-17

SIGN NAME	A		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	8'-6"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	90	5	14.5	6	9
ARUP	270	88.1	3.5	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



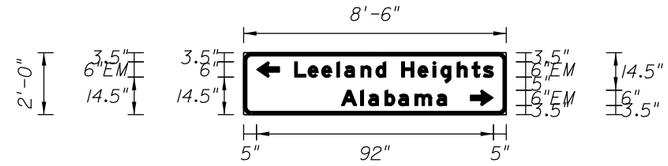
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		A	l	a	b	a	m	a		L																		
SPACE	19.2	7.5	3.1	6.4	5.3	6.4	8.5	4	41.8	41																		
COPY		L	e	e	l	a	n	d		H	e	i	g	h	t	s		L										
SPACE	4.9	5.2	5.3	5.8	3.1	6.4	5.8	4	6	6.4	5.8	3.1	6.4	5.8	4.4	4	19.8	77.2										
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												

SIGN NAME	B		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	8'-6"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	90	5	14.5	6	9
ARUP	270	88	3.5	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



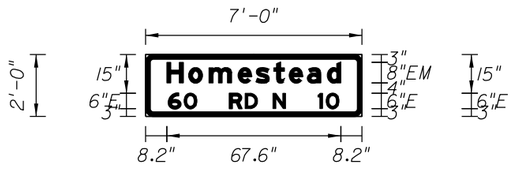
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		L	e	e	l	a	n	d		H	e	l	g	h	t	s		L										
SPACE	19.8	5.2	5.3	5.8	3.1	6.4	5.8	4	6	6.4	5.8	3.1	6.4	5.8	4.4	4	5	77.2										
COPY		A	l	a	b	a	m	a		L																		
SPACE	37.9	7.5	3.1	6.4	5.3	6.4	8.5	4	23.1	41																		
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												

SIGN NAME	C		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	7'-0"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



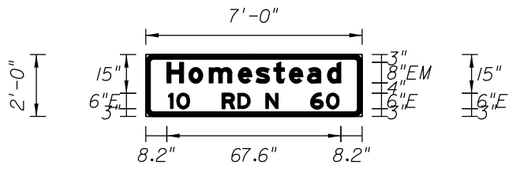
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		H	o	m	e	s	t	e	a	d		L																
SPACE	8.2	8.5	7.9	11.3	6.9	7	6	7	7.8	5.3	8.2	67.6																
COPY		6	0		R	D		N		1	0		L															
SPACE	8.8	6.1	5	12.6	6.1	4.9	6	4.9	12.6	3.2	5	8.9	66.3															
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												

SIGN NAME	D		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	7'-0"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		H	o	m	e	s	t	e	a	d		L																
SPACE	8.2	8.5	7.9	11.3	6.9	7	6	7	7.8	5.3	8.2	67.6																
COPY		1	0		R	D		N		6	0		L															
SPACE	8.8	3.2	5	12.6	6.1	4.9	6	4.9	12.6	6.1	5	8.9	66.3															
COPY																												
SPACE																												
COPY																												
SPACE																												
COPY																												
SPACE																												

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GUIDE SIGN WORK SHEET

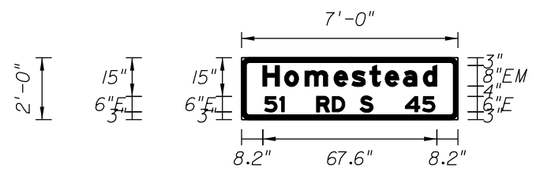
SHEET NO.
T-18

CROCKSWO 9/13/2016 10:03:05 AM PW:\2021\6\0000000000053055\V3.00_CAD\Homestead\sIgnals\GSWKSG01.DGN

SIGN NAME	E		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	7'-0"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

		H	o	m	e	s	t	e	a	d		L										
COPY																						
SPACE	8.2	8.5	7.9	11.3	6.9	7	6	7	7.8	5.3	8.2	67.6										

		5	1		R	D		S		4	5		L									
COPY																						
SPACE	8.9	5.9	1.8	12.6	6.1	4.9	6	4.9	12.6	6.7	4.9	8.9	66.2									

COPY																						
SPACE																						

COPY																						
SPACE																						

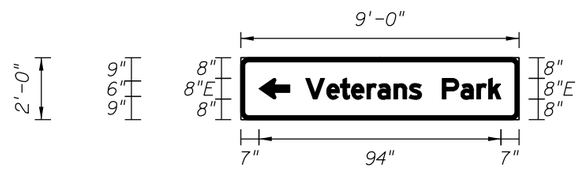
COPY																						
SPACE																						

COPY																						
SPACE																						

SIGN NAME	F		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	9'-0"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	90	7	8	8	12

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

		V	e	t	e	r	a	n	s		P	a	r	k		L						
COPY																						
SPACE	25.2	8.2	5.4	4.2	6	4.2	6.2	5.9	4.9	8	7.2	6.2	4.6	4.8	7	75.8						

COPY																						
SPACE																						

COPY																						
SPACE																						

COPY																						
SPACE																						

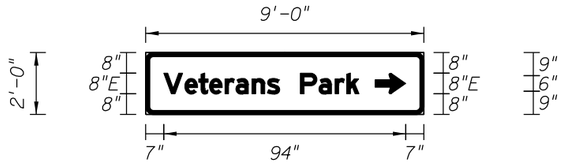
COPY																						
SPACE																						

COPY																						
SPACE																						

SIGN NAME	G		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	9'-0"	WIDTH	1.25"			
HEIGHT	2'-0"	RADII	3"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	270	89	8	8	12

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

		V	e	t	e	r	a	n	s		P	a	r	k		L						
COPY																						
SPACE	7	8.2	5.4	4.2	6	4.2	6.2	5.9	4.9	8	7.2	6.2	4.6	4.8	25.2	75.8						

COPY																						
SPACE																						

COPY																						
SPACE																						

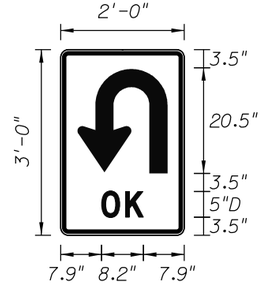
COPY																						
SPACE																						

COPY																						
SPACE																						

SIGN NAME	Y		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	2'-0"	WIDTH	0.63"			
HEIGHT	3'-0"	RADII	1.13"			
LEGEND	Black	COLOR	Black			
COLOR	White					

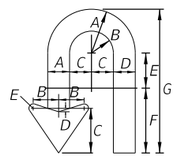
SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUT	0	2.4	12	19.2	20.5

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



ARROW HEAD

A	3.125
B	3.625
C	6.375
D	.5
E	.625



ARROW BODY

A	B	C	D	E	F	G
6.25	3.125	3.125	3.125	5	9.25	20.5

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

		O	K		L																	
COPY																						
SPACE	7.9	4.6	3.5	7.9	8.2																	

COPY																						
SPACE																						

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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.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Sarasota, FL 34232-6233
Certificate of Authorization 4213

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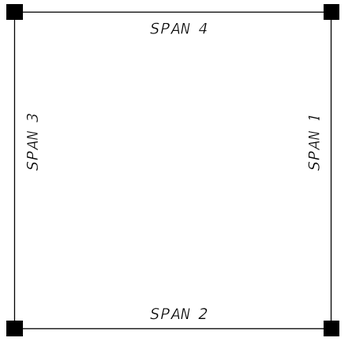
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT
of
TRANSPORTATION
FORT MYERS, FLORIDA 33901

GUIDE SIGN WORK SHEET

SHEET NO.
T-19



NOTES:

CRITICAL ELEVATION DIFFERENTIAL IS THE DIFFERENCE IN ELEVATION FROM THE POLE LOCATION TO THE HIGHEST POINT OF THE ROADWAY THAT SPAN(S) CROSSES. A POSITIVE ELEVATION DIFFERENTIAL INDICATES THE POLE LOCATION IS HIGHER THAN THE ROADWAY.

SPAN ORIENTATION BASED ON SHEET VIEW. SIGNAL HEAD DISTANCES ARE MEASURED IN A CLOCKWISE DIRECTION.

POLE ELEVATIONS SHOWN ON SIGNALIZATION PLAN SHEETS REPRESENT THE FINISHED GROUND ELEVATION AT THAT LOCATION.

STRAIN POLE SCHEDULE

POLE ID NO.	SHEET NO.	POLE LOCATION		CRITICAL ELEVATION	CRITICAL ELEVATION DIFFERENTIAL	SPAN	SPAN LENGTH	SIGNAL DATA DISTANCE FROM POLE/NUMBER OF SECTIONS												SIGN DATA DISTANCE FROM POLE/HEIGHT AND WIDTH OF SIGN						CAMERA OR PREEMPTION DEVICE	
		STATION	GROUND ELEVATION					DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	W1	H1	DIST.	W2	H2	DIST.	DIST.
1	T-6	585+74.00	28.41		0.15																								
						1	107	60	3	72	3																	63 (P)	66 (C)
2	T-6	585+66.55	27.57		-0.69																								
				28.26		2	93																						
3	T-6	584+72.61	27.85		-0.41																								
						3	108	69	4	80	3	90	3															85 (C)	87 (P)
4	T-6	584+92.33	28.12		-0.14																								
						4	82	32	3	44	3																	39 (C)	
5	T-7	601+63.78	27.76		-0.12																								
				27.88		1	103	15	3	22	3	33	3	37.5	3	66.5	3	80.5	3			28	3.5	2.5	73	3.5	2.5		
6	T-7	600+99.10	28.06		0.18																								
7	T-8	625+82.02	26.87		-1.69																								
						1	119	60	3	72	3	83	3															68 (C)	80 (P)
8	T-8	625+81.38	27.00		-1.56																								
				28.56		2	163	74	3	77	3	89	3	92	3	110	3	118	3									99 (C)	105 (P)
9	T-8	624+18.33	27.03		-1.53																								
						3	127	61	3	72	3	82	3	92	3							58	2	3				76 (C)	86 (P)
10	T-8	624+49.47	27.01		-1.55																								
						4	133	39	3	62	3	66	3	74	3	82	3											69 (C)	77 (P)

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CROCKSWO

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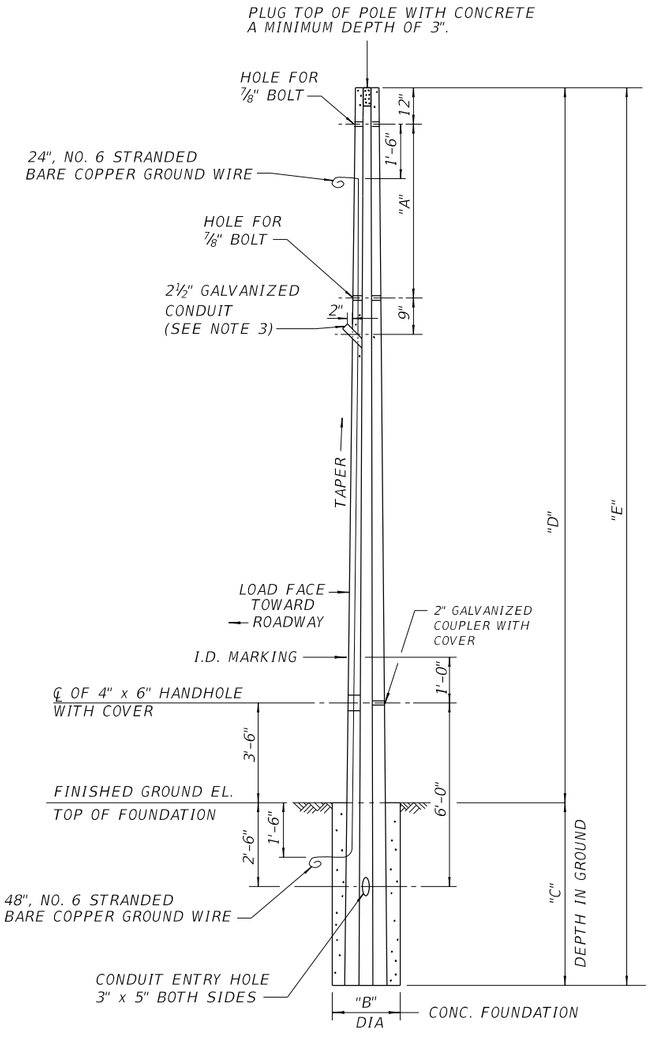
SPAN WIRE TABULATION

SHEET NO. T-20



CONCRETE POLE ELEVATION

N.T.S.

POLE SCHEDULE FOR HOMESTEAD RD. AT VETERANS PARK (STA. 585+20)

SHEET NUMBER	POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)	DIM. E (FT)	CATENARY WIRE DIA. (IN.)/GRADE	MESSENGER WIRE DIA. (IN.)/GRADE	FOUNDATION DESIGN ASSUMPTIONS	
												EFFECTIVE SOIL UNIT WT. (PCF)	ANGLE OF INTERNAL FRICTION (DEG.)
T-6	1	P-VI	28.41	28.26	5'-6"	3'-6"	13'-9"	30'-3"	44'-0"	3/8" / UTILITY	3/8" / UTILITY	50	30
T-6	2	P-VI	27.57		5'-6"	3'-6"	12'-11"	31'-1"	44'-0"	3/8" / UTILITY	3/8" / UTILITY	50	30
T-6	3	P-VI	27.85		5'-6"	3'-6"	13'-2"	30'-10"	44'-0"	3/8" / UTILITY	3/8" / UTILITY	50	30
T-6	4	P-VI	28.12		5'-6"	3'-6"	13'-6"	30'-6"	44'-0"	3/8" / UTILITY	3/8" / UTILITY	50	30

POLE SCHEDULE FOR HOMESTEAD RD. AT FIRE STATION DRIVEWAY (STA. 601+50)

SHEET NUMBER	POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)	DIM. E (FT)	CATENARY WIRE DIA. (IN.)/GRADE	MESSENGER WIRE DIA. (IN.)/GRADE	FOUNDATION DESIGN ASSUMPTIONS	
												EFFECTIVE SOIL UNIT WT. (PCF)	ANGLE OF INTERNAL FRICTION (DEG.)
T-7	5	P-V	27.76	27.88	6'-2"	3'-6"	12'-0"	30'-0"	42'-0"	3/8" / UTILITY	3/8" / UTILITY	50	30
T-7	6	P-V	28.06	27.88	6'-2"	3'-6"	12'-2"	29'-10"	42'-0"	3/8" / UTILITY	3/8" / UTILITY	50	30

POLE SCHEDULE FOR HOMESTEAD RD. AT ALABAMA RD. (STA. 625+00)

SHEET NUMBER	POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)	DIM. E (FT)	CATENARY WIRE DIA. (IN.)/GRADE	MESSENGER WIRE DIA. (IN.)/GRADE	FOUNDATION DESIGN ASSUMPTIONS	
												EFFECTIVE SOIL UNIT WT. (PCF)	ANGLE OF INTERNAL FRICTION (DEG.)
T-8	7	P-VIII	26.87	SEE NOTE 4	9'-0"	3'-6"	17'-5"	34'-7"	52'-0"	3/8" / UTILITY	1/2" / UTILITY	50	30
T-8	8	P-VIII	27.00		9'-0"	3'-6"	17'-7"	34'-5"	52'-0"	3/8" / UTILITY	1/2" / UTILITY	50	30
T-8	9	P-VIII	27.03		9'-0"	3'-6"	17'-11"	34'-1"	52'-0"	3/8" / UTILITY	1/2" / UTILITY	50	30
T-8	10	P-VIII	27.01		9'-0"	3'-6"	15'-9"	34'-3"	50'-0"	3/8" / UTILITY	1/2" / UTILITY	50	30

NOTES:

1. FOR ADDITIONAL DETAILS NOT SHOWN ON THIS SHEET, REFER TO DESIGN STANDARD INDEX 17725.
2. DESIGN WIND SPEED: 130 MPH.
3. A PROPERLY SIZED SERVICE HEAD, (WEATHERHEAD) SHALL BE INSTALLED AND FASTENED SECURELY ONTO CONDUIT FOR EACH POLE LOCATION. AT LOCATIONS OTHER THAN SERVICE ENTRANCE, THE SERVICE HEAD FACE IS TO BE LEFT CLOSED TO OUTSIDE ATMOSPHERE. SERVICE ENTRANCE INSTALLATION PER INDEX 17727.
4. PAVEMENT EL. UNDER CRITICAL HEAD:
   POLE 1 TO POLE 2 = 28.56
   POLE 2 TO POLE 3 = 27.96
   POLE 3 TO POLE 4 = 28.41
   POLE 4 TO POLE 1 = 28.18

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Chester A. Smith III, P.E.
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PUBLIC WORKS
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SOUTHWEST FLORIDA
1500 MONROE STREET
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

STRAIN POLE DETAILS

SHEET NO. T-21

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NOTES:

1. CONTRACTOR SHALL VERIFY THE POLE TYPE, THE DIMENSIONS OF THE POLE AT THE POINT OF INSTALLATION OF THE SIGN BRACKET AND ANGLE BEFORE MANUFACTURING SIGN BRACKET. THE CONTRACTOR SHALL VERIFY ANGLE, Ø, PRIOR TO FIELD DRILLING 13/16" DIA. HOLE IN 4 1/2" O.D. PIPE.

2. DESIGN WIND SPEED = 130 MPH.
   DESIGN BASED ON ALLOWABLE STRESS DESIGN APPROACH.
   WORKING LOADS FROM THE INTERNALLY ILLUMINATED SIGN AND CANTILEVER ARM AT THE CENTER OF THE VERTICAL PIPE ARE AS FOLLOWS:
   HORIZONTAL MOMENT = 5620 FT LBS
   VERTICAL MOMENT = 1410 FT LBS
   HORIZONTAL SHEAR = 850 LBS
   VERTICAL SHEAR = 240 LBS

3. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE SIGN BRACKET ARM IN PLACE OF THE DESIGN ON THIS SHEET AT NO ADDITIONAL COST TO THE COUNTY. THE CONTRACTOR'S ALTERNATIVE SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT'S PLANS PREPARATION MANUAL AND THE LATEST EDITION OF AASHTO'S STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. THE DESIGN AND THE SHOP DRAWINGS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

4. ALL STRUCTURAL STEEL EXCEPT FOR STRUCTURAL PIPE SHALL CONFORM TO ASTM A572 GR 50. STRUCTURAL PIPE SHALL CONFORM TO ASTM DESIGNATION A53 GRADE B (35 KSI MINIMUM YIELD STRENGTH). ALL BRACKET PLATES SHALL BE HOT BENT.

5. ALL BOLTS SHALL BE HIGH STRENGTH A325 BOLTS AND SHALL RECEIVE ELECTRODEPOSITED COATING IN ACCORDANCE WITH ASTM B633.

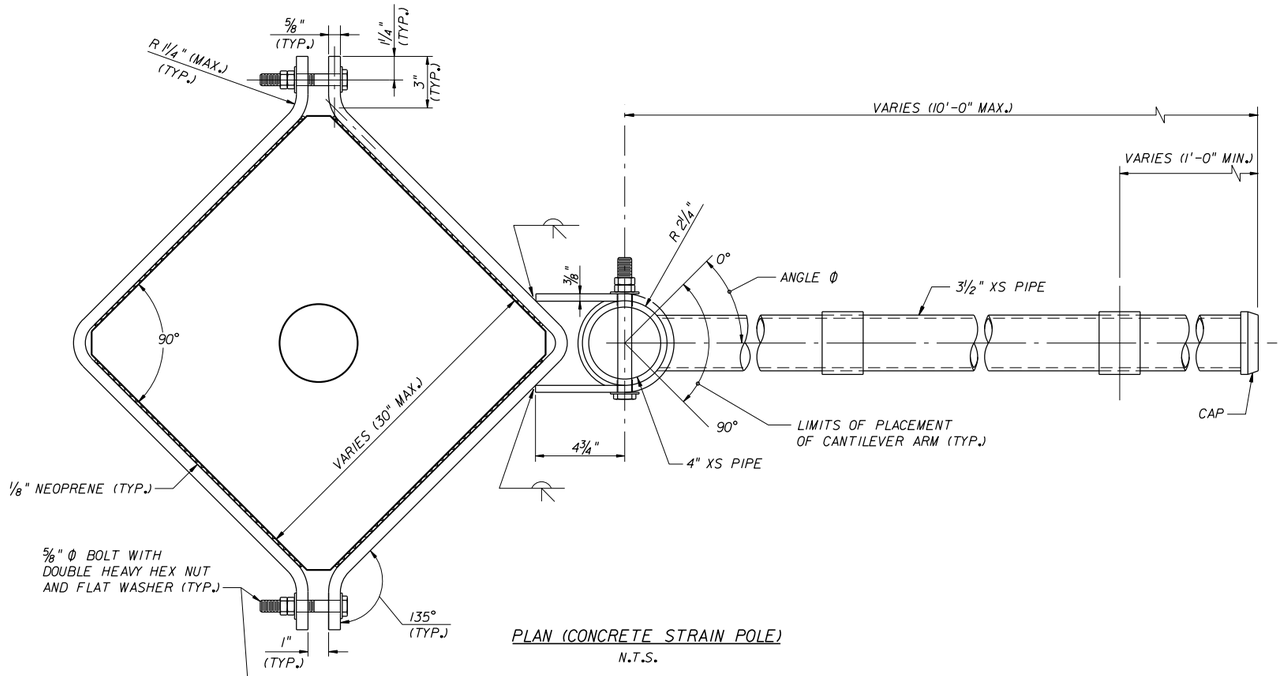
6. COMPLETE ASSEMBLY SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A123.

7. WELD DETAILS AND THE OPERATION OF WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE. HOLLOW STRUCTURAL SECTION CONNECTIONS SHALL ALSO MEET THE REQUIREMENTS OF AWS D1.1 CHAPTER 10. ELECTRODES SHALL HAVE A 70 KSI MINIMUM TENSILE STRENGTH.

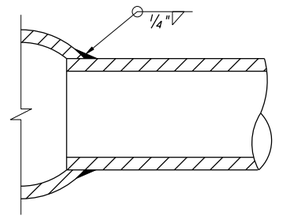
8. NO FIELD WELDING SHALL BE PERMITTED.

9. SIGN TO BE LEVEL AFTER INSTALLATION.

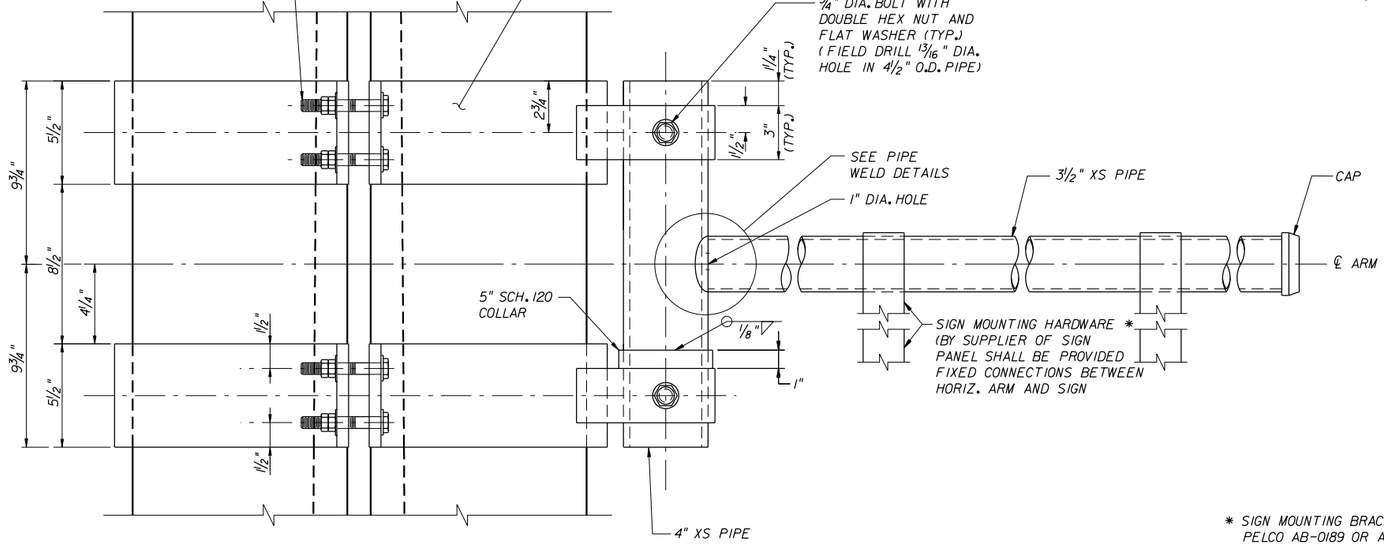
10. ALL MATERIALS AND LABOR REQUIRED TO FURNISH AND INSTALL THE SIGN BRACKET SHALL BE INCLUDED IN PAY ITEM 700-5-22.



PLAN (CONCRETE STRAIN POLE)
N.T.S.



PIPE WELD DETAIL



ELEVATION (CONCRETE STRAIN POLE)
N.T.S.

* SIGN MOUNTING BRACKET(S) SHALL BE A PELCO AB-0189 OR AN APPROVED EQUAL.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DEPARTMENT of TRANSPORTATION
FORT MYERS, FLORIDA 33901

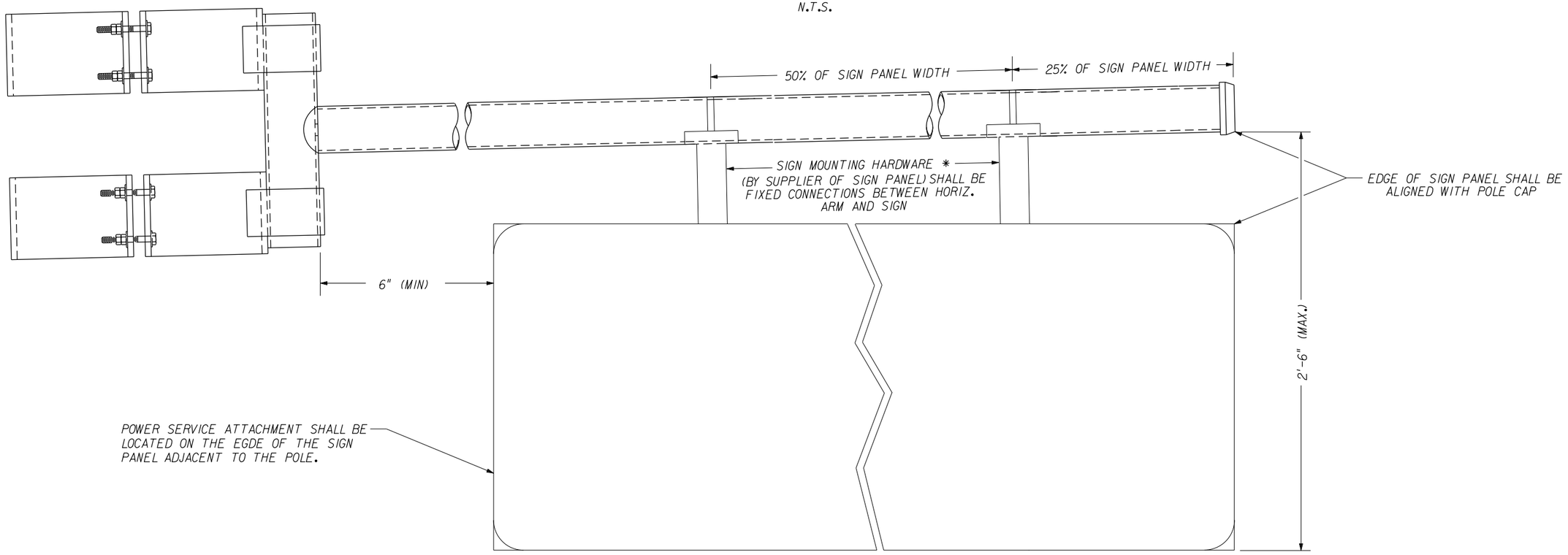
JOCAMPBE

FIXED SIGN BRACKET ARM (ONE WAY)

SHEET NO. T-22

9/16/2016 9:48:34 AM PW:\2021\6\00000000053055\V3.00_CAD\Homestead\struct\T-22.dgn

INTERNALLY ILLUMINATED SIGN PANEL DETAIL
N.T.S.



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FLORIDA

DEPARTMENT
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1500 MONROE STREET FORT MYERS, FLORIDA 33901
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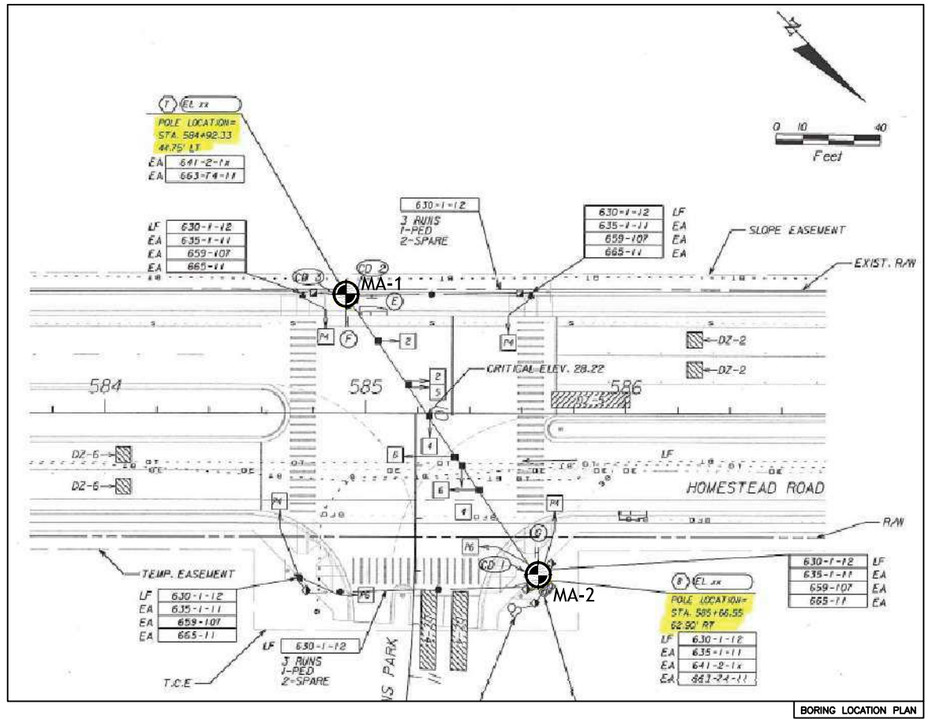
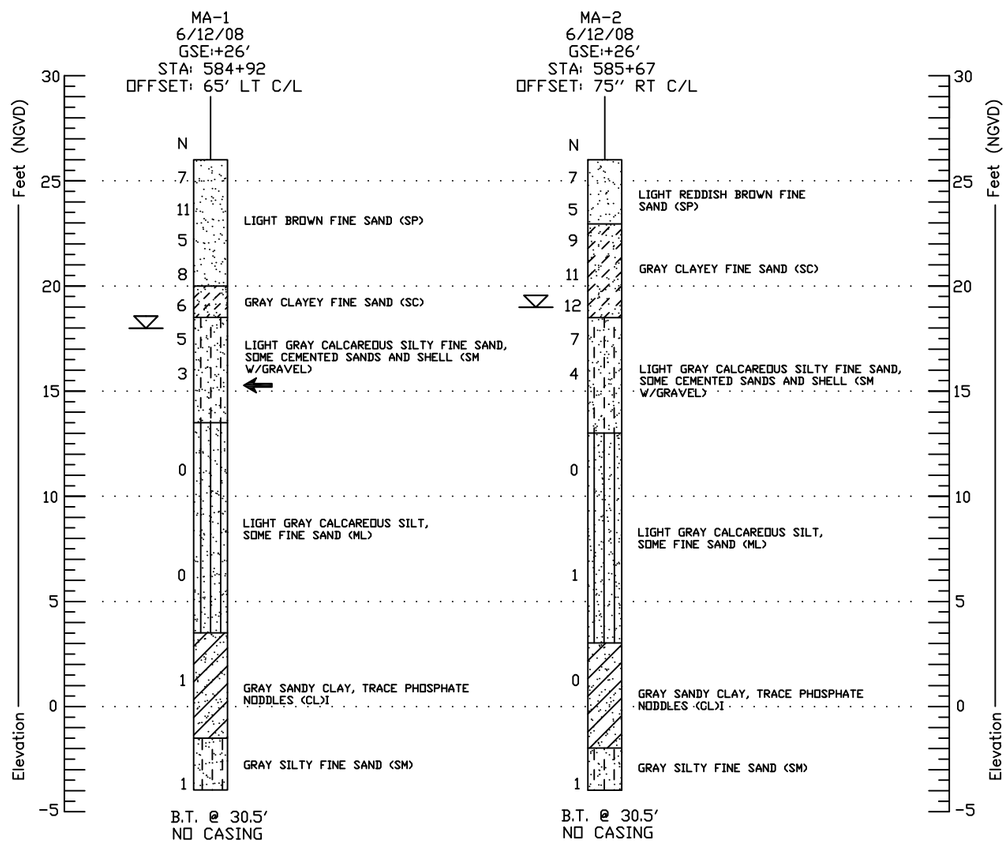
OVERHEAD SIGN LOCATION
DETAIL ON SIGN BRACKET ARM

SHEET NO.
T-23



BORING LOCATION PLAN



SOIL PROFILES

CORROSION SERIES TEST RESULTS

DEPTH feet	RESISTIVITY Ohms-cm	CHLORIDES ppm	SULFATES ppm	pH
0-4	3,200	30	40	6.5
4-8	6,800	30	50	6.4

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE:
CONCRETE: SLIGHTLY AGGRESSIVE
STEEL: MODERATELY AGGRESSIVE

SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE

DRILL RIG: TRUCK MOUNTED CME 55

STANDARD PENETRATION TEST DATA:
SPOON I.D.= 1.375"
SPOON O.D.= 2.0"
HAMMER DROP= 30"
HAMMER WEIGHT= 140 lbs.
HAMMER TYPE= SAFETY 6'-10'
AUTO 15'-30'

ENGINEERING CLASSIFICATION

I COHESIONLESS SOILS

DESCRIPTION	BLOW COUNT "N"
VERY LOOSE	0 TO 4
LOOSE	4 TO 10
MEDIUM DENSE	10 TO 30
DENSE	30 TO 50
VERY DENSE	>50

II COHESIVE SOILS

DESCRIPTION	UNCONFINED COMPRESSIVE STRENGTH, QU, TSF	BLOW COUNT "N"
VERY SOFT	<1/4	0 TO 2
SOFT	1/4 TO 1/2	2 TO 4
FIRM	1/2 TO 1	4 TO 8
STIFF	1 TO 2	8 TO 15
VERY STIFF	2 TO 4	15 TO 30
HARD	>4	>30

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS. GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.

LEGEND

FINE SAND
SILTY FINE SAND
SANDY SILT
SANDY CLAY
CLAYEY FINE SAND

STANDARD PENETRATION TEST (SPT) BORING LOCATION
N STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT
GROUNDWATER LEVEL MEASURED ON DATE DRILLED
GSE GROUND SURFACE ELEVATION (FEET, NGVD)
SP, SC-SM ML, CH, CL UNIFIED SOIL CLASSIFICATION SYSTEM
LOSS OF DRILLING FLUID CIRCULATION
B.T. BORING TERMINATION DEPTH

SOIL DESIGN PARAMETERS FOR BORINGS MA-1 AND MA-2

DEPTH BELOW GROUND SURFACE (FEET)	SPT RANGE (N-VALUE)	SOIL TYPE	APPROX. SOIL UNIT WEIGHT (PCF)		ANGLE OF INTERAL FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
			γsat	γb			ACTIVE (Ka)	PASSIVE (Kp)
0-5	5-11	SP	112	50	30	0	0.33	3.00
5-7	6-12	SC	117	55	--	1000	1	1
7-12	3-7	SM w/gr	107	45	29	0	0.35	2.88
12-22	0-1	ML	102	40	26	0	0.39	2.56
22-27	0-1	CL	107	45	--	125	1	1
27-30	1	SM	102	40	26	0	0.39	2.56

REVISIONS

Date	By	Description	Date	By	Description

	Names	Dates
Drawn by	JAR	07/08
Checked by	GAD	07/08
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:
G.A. DREW, P.E.
FL. REG. NO. 35504
Ardaman & Associates, Inc.
9970 BAVARIA ROAD
FT. MYERS, FL. 33913
PHONE (239) 768-6600
ENG. AUTH NO. 5950

Ardaman & Associates, Inc.

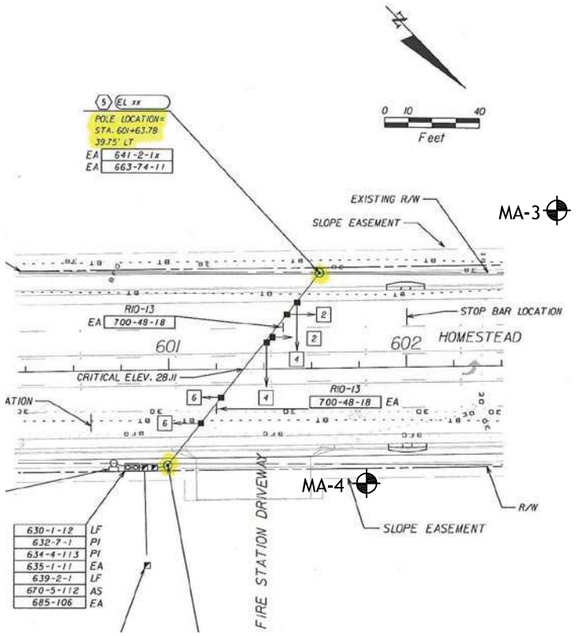
SEAL:

LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

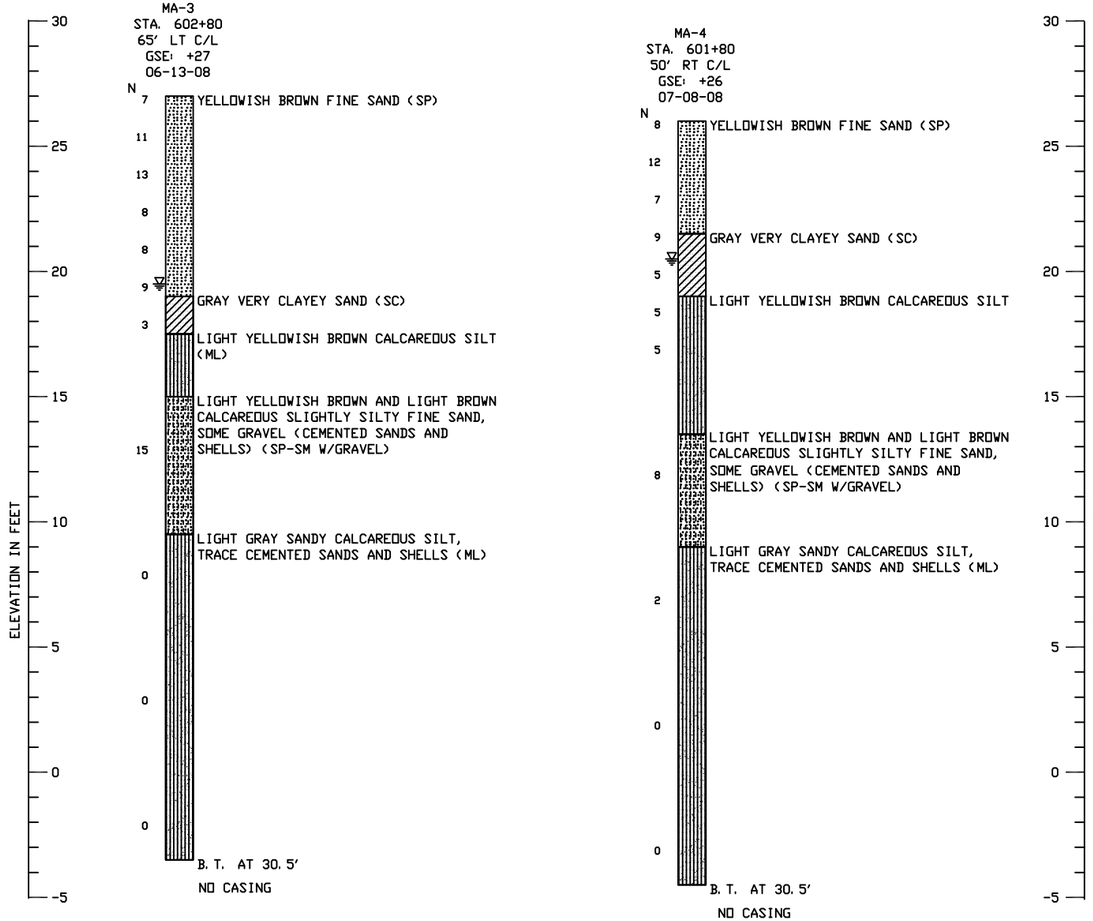
VETERANS ACADEMY SIGNAL BORINGS
HOMESTEAD ROAD WIDENING - SUNRISE BLVD TO ALABAMA RD

SHEET NO.
GT-1

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



BORING LOCATION PLAN



SOIL PROFILE

CORROSION SERIES TEST RESULTS

DEPTH feet	RESISTIVITY Ohms-cm	CHLORIDES ppm	SULFATES ppm	pH
0-5	15,000	30	40	8.5

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE:
CONCRETE: SLIGHTLY AGGRESSIVE
STEEL: SLIGHTLY AGGRESSIVE

SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE

DRILL RIG: TRUCK MOUNTED CME 55

STANDARD PENETRATION TEST DATA:
SPOON I.D.= 1.375"
SPOON O.D.= 2.0"
HAMMER DROP= 30"
HAMMER WEIGHT= 140 lbs.
HAMMER TYPE= SAFETY 6'-10'
AUTO 15'-30'

ENGINEERING CLASSIFICATION

I COHESIONLESS SOILS

DESCRIPTION	BLOW COUNT "N"
VERY LOOSE	0 TO 4
LOOSE	4 TO 10
MEDIUM DENSE	10 TO 30
DENSE	30 TO 50
VERY DENSE	>50

II COHESIVE SOILS

DESCRIPTION	UNCONFINED COMPRESSIVE STRENGTH, QU, TSF	BLOW COUNT "N"
VERY SOFT	<1/4	0 TO 2
SOFT	1/4 TO 1/2	2 TO 4
FIRM	1/2 TO 1	4 TO 8
STIFF	1 TO 2	8 TO 15
VERY STIFF	2 TO 4	15 TO 30
HARD	>4	>30

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS. GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.

LEGEND

Strata symbols

- Fine sand
- Clayey sand
- Sandy silt
- Slightly silty sand

- STANDARD PENETRATION TEST (SPT) BORING LOCATION
- N — STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT
- GROUNDWATER LEVEL MEASURED ON DATE DRILLED
- GSE — GROUND SURFACE ELEVATION (FEET, NGVD)
- SP, SC-SM, ML, CH, CL — UNIFIED SOIL CLASSIFICATION SYSTEM
- LOSS OF DRILLING FLUID CIRCULATION
- B.T. — BORING TERMINATION DEPTH

SOIL DESIGN PARAMETERS FOR BORINGS MA-3 AND MA-4

DEPTH BELOW GROUND SURFACE (FEET)	SPT RANGE (N-VALUE)	SOIL TYPE	APPROX. SOIL UNIT WEIGHT (PCF)		ANGLE OF INTERNAL FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
			γsat	γb			ACTIVE (Ka)	PASSIVE (Kp)
0-9	7-13	SP	112	50	30	–	0.33	3.00
9-12	3-5	ML	107	45	28	–	0.36	2.77
12-17	2-15	SP-SM W/GR	112	50	31	–	0.32	3.12
17-30	0	ML	102	40	26	–	0.39	2.56

REVISIONS

Date	By	Description	Date	By	Description

	Names	Dates
Drawn by	JAR	07/08
Checked by	GAD	07/08
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:
G.A. DREW, P.E.
FL. REG. NO. 35504

Ardaman & Associates, Inc.
9970 BAVARIA ROAD
FT. MYERS, FL. 33913
PHONE (239) 768-6600
ENG. AUTH NO. 5950

Ardaman & Associates, Inc.

SEAL:

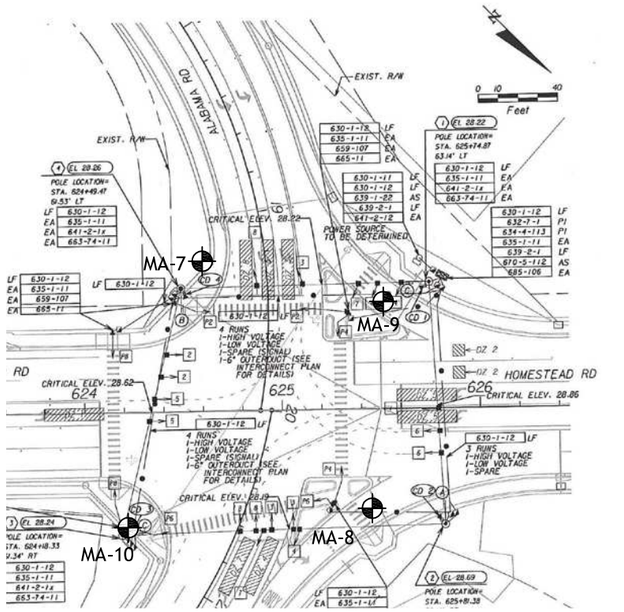
LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

FIRE STATION SIGNAL BORINGS

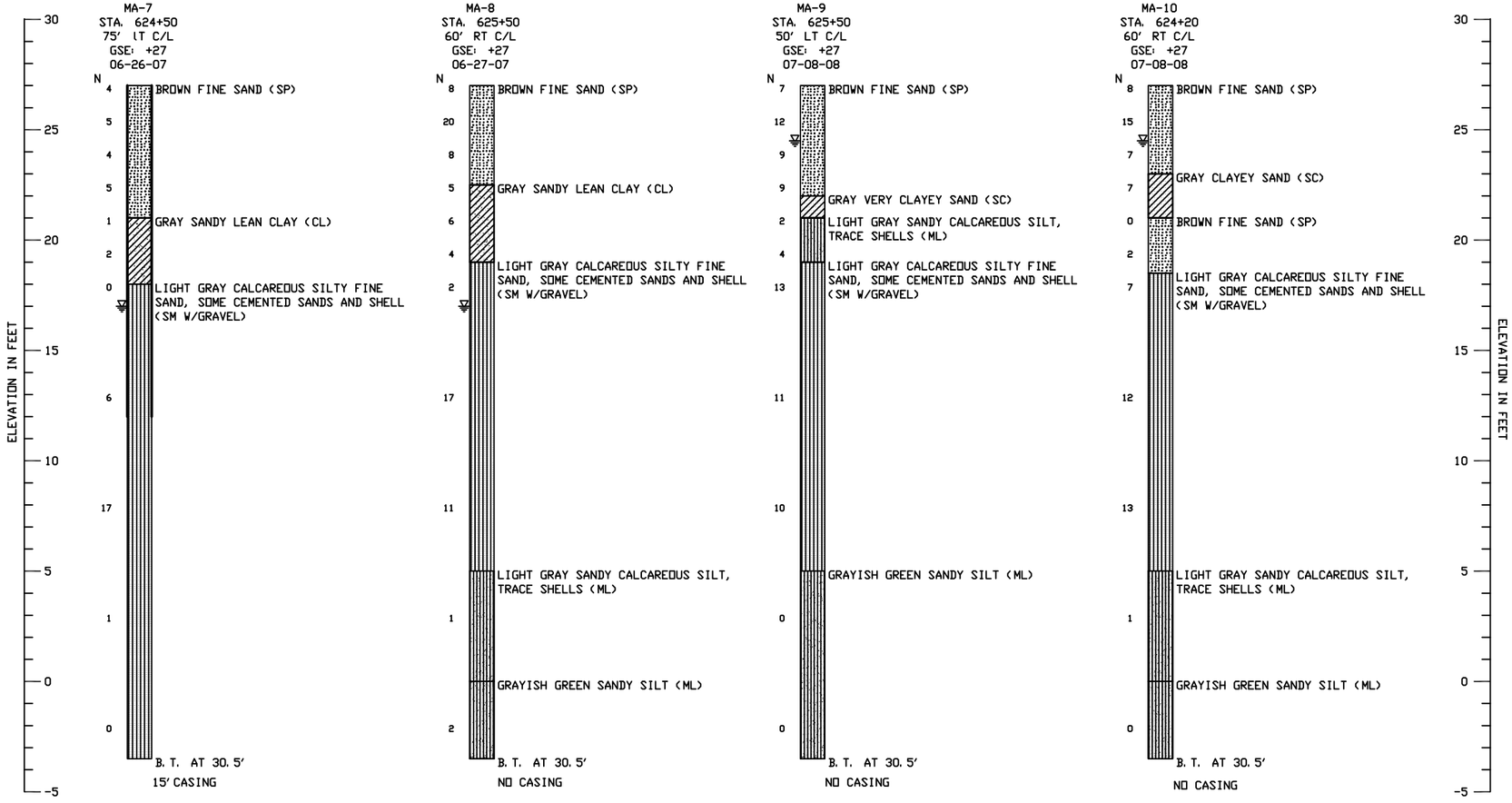
HOMESTEAD ROAD WIDENING – SUNRISE BLVD TO ALABAMA RD

SHEET NO.
GT-2

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



BORING LOCATION PLAN



SOIL PROFILES

CORROSION SERIES TEST RESULTS

DEPTH feet	RESISTIVITY Ohms-cm	CHLORIDES ppm	SULFATES ppm	pH
0-5	10,000	60	92	6.9

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE:
CONCRETE: SLIGHTLY AGGRESSIVE
STEEL: MODERATELY AGGRESSIVE

SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE

DRILL RIG: TRUCK MOUNTED CME 55

STANDARD PENETRATION TEST DATA:
SPOON I.D.= 1.375"
SPOON O.D.= 2.0"
HAMMER DROP= 30"
HAMMER WEIGHT= 140 lbs.
HAMMER TYPE= SAFETY 6'-10'
AUTO 15'-30'

LEGEND

- Fine sand
- Sandy lean clay
- Silty sand
- Sandy silt
- Clayey sand

- STANDARD PENETRATION TEST (SPT) BORING LOCATION
- N — STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT
- GROUNDWATER LEVEL MEASURED ON DATE DRILLED
- GSE — GROUND SURFACE ELEVATION (FEET, NGVD)
- SP, SC-SM ML, CH, CL — UNIFIED SOIL CLASSIFICATION SYSTEM
- LOSS OF DRILLING FLUID CIRCULATION
- B.T. — BORING TERMINATION DEPTH
- HW CASING

ENGINEERING CLASSIFICATION

I COHESIONLESS SOILS

DESCRIPTION	BLOW COUNT "N"
VERY LOOSE	0 TO 4
LOOSE	4 TO 10
MEDIUM DENSE	10 TO 30
DENSE	30 TO 50
VERY DENSE	>50

II COHESIVE SOILS

DESCRIPTION	UNCONFINED COMPRESSIVE STRENGTH, QU, TSF	BLOW COUNT "N"
VERY SOFT	<1/4	0 TO 2
SOFT	1/4 TO 1/2	2 TO 4
FIRM	1/2 TO 1	4 TO 8
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VERY STIFF	2 TO 4	15 TO 30
HARD	>4	>30

WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL VARIATIONS CHARACTERISTIC OF THE SUBSURFACE MATERIALS OF THE REGION ARE ANTICIPATED AND MAY BE ENCOUNTERED. THE BORING LOGS AND RELATED INFORMATION ARE BASED ON THE DRILLER'S LOGS AND VISUAL EXAMINATION OF SELECTED SAMPLES IN THE LABORATORY. THE DELINEATION BETWEEN SOIL TYPES SHOWN ON THE LOGS IS APPROXIMATE AND THE DESCRIPTION REPRESENTS OUR INTERPRETATION OF SUBSURFACE CONDITIONS AT THE DESIGNATED BORING LOCATIONS ON THE PARTICULAR DATE DRILLED. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS. GROUNDWATER ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER SURFACES ENCOUNTERED ON THE DATES SHOWN. FLUCTUATIONS IN WATER TABLE LEVELS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.

SOIL DESIGN PARAMETERS FOR BORINGS MA-7,MA-8, MA-9 & MA-10

DEPTH BELOW GROUND SURFACE (FEET)	SPT RANGE (N-VALUE)	SOIL TYPE	APPROX. SOIL UNIT WEIGHT (PCF)		ANGLE OF INTERNAL FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
			γsat	γb			ACTIVE (Ka)	PASSIVE (Kp)
0-5	4-20	SP	112	50	30	–	0.33	3.00
5-8	1-9	SC/CL	112	50	--	750	1	1
8-22	0-17	SM W/GR	112	50	30	–	0.33	3.00
22-30	0-2	ML	102	40	26	–	0.39	2.56

REVISIONS

Date	By	Description	Date	By	Description

	Names	Dates
Drawn by	GBD	08/07
Checked by	GAD	08/07
Designed by		
Checked by		
Approved by		

ENGINEER OF RECORD:
G.A. DREW, P.E.
FL. REG. NO. 35504

Ardaman & Associates, Inc.
9970 BAVARIA ROAD
FT. MYERS, FL. 33913
PHONE (239) 768-6600
ENG. AUTH NO. 5950

Ardaman & Associates, Inc.

SEAL:

LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

ALABAMA RD. SIGNAL BORINGS
HOMESTEAD ROAD WIDENING – SUNRISE BLVD TO ALABAMA RD

SHEET NO.
GT-3

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

LEE COUNTY BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

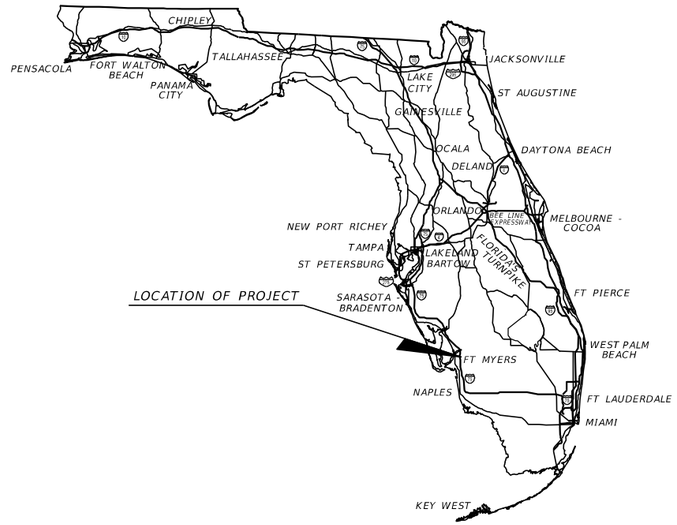
PLANS OF PROPOSED

HOMESTEAD ROAD WIDENING

LEE COUNTY

PROJECT NO. 5063

LIGHTING PLANS



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	LEGEND, DETAILS & NOTES
L-4 - L-12	LIGHTING PLANS HOMESTEAD ROAD

LIGHTING SHOP DRAWINGS
TO BE SUBMITTED TO:
Cody Rockswold, P.E.
HDR Engineering, Inc.
5426 Bay Center Drive, Suite 400
Tampa, FL 33609-3444

PLANS PREPARED BY:

HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213
Vendor No. 47-0680568
Contract No. 3806

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

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:
LIST OF DEVIATIONS: NONE

LIGHTING PLANS
ENGINEER OF RECORD: CODY ROCKSWOLD, PE

P.E. NO.: 72917

DATE: _____

KEY SHEET REVISIONS	
DATE	DESCRIPTION

DEVELOPMENT ORDER APPROVED:
LEE COUNTY PUBLIC WORKS ADMINISTRATOR
DIRECTOR, P W TRANSPORTATION:

DAVID LOVELAND

DATE: _____

SHEET NO.

L-1

LEE COUNTY PROJECT MANAGER: SARAH CLARKE

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-4		L-5		L-6		L-7		L-8		L-9		L-10		L-11								
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF	914		1491		1490		1490		1490		1366		1378		1953						11560		11560		
635-2-11	PULL AND SPLICE BOX (F&I)	EA	9		16		15		15		15		11		13		18						112		112		
715-10-2	LIGHT POLE FOUNDATION (F&I)	EA	9		16		15		15		15		11		13		20						114		114		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Cody Rockswold, P.E.
P.E. License Number 72917
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

CROCKSWO

TABULATION OF QUANTITIES

SHEET NO. L-2

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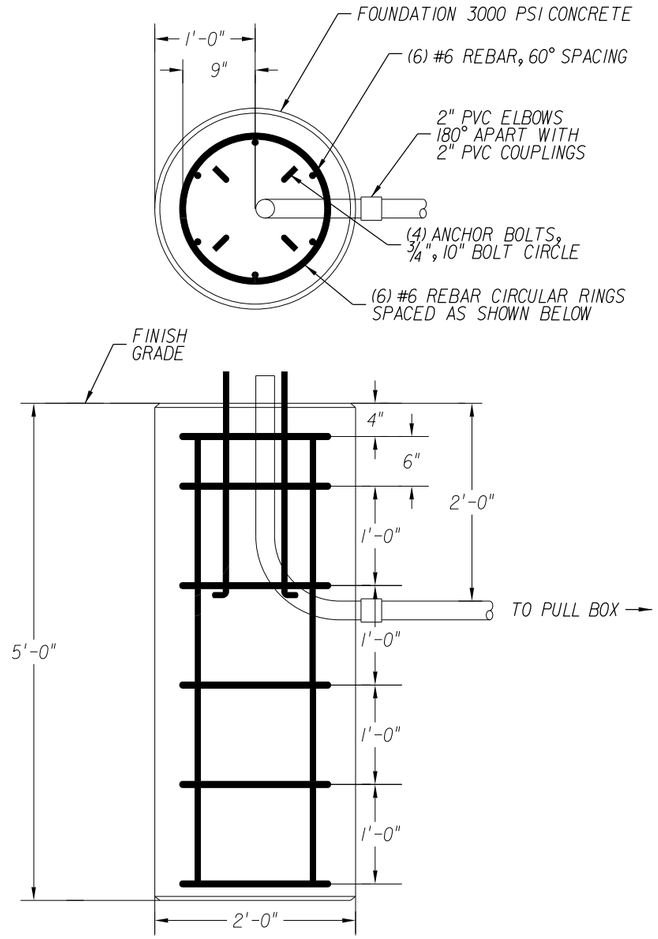
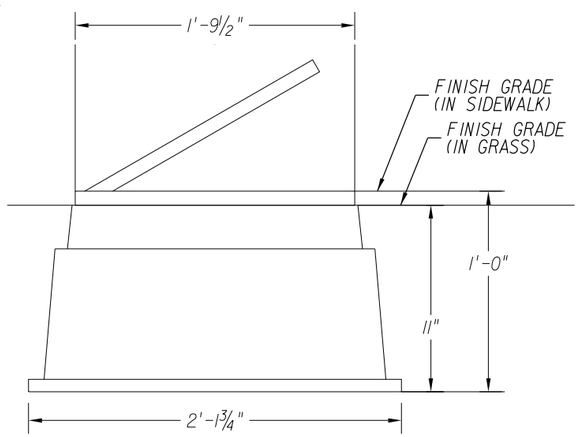
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

STREET LIGHT POLE FOUNDATION DETAIL



PULL BOX DETAIL



CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity	1.0 Foot Candles
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less

LEGEND

SYMBOLS	DESCRIPTION
	250 watt high pressure sodium luminaire. Designed for medium cutoff type III distribution. Integral regulator type ballast wired for 480 volt operation. Fixture mounting height is 35' with 10' arm. Use Streetworks curve OVH255XX3D. Pole and luminaire to be furnished and installed by LCEC.
	Existing light pole to remain.
	Existing light pole to be removed by LCEC.
	Final position of relocated pole and luminaire. Relocation by LCEC.
—— ∘ ——	2" Schedule 40 PVC conduit. Conductors to be furnished and installed by LCEC.
	Pull box. Street lighting logo on cover.

NOTES

1. Contractor shall install the foundations, conduits and pull boxes as shown from Sta. 523+42 to Sta. 612+60. A pull wire shall be inside each conduit run between pull boxes. LCEC shall install poles with luminaries at locations shown and pull conductors.
2. Contractor shall install the foundations, conduits and pull boxes as shown from Sta. 612+95 to Sta. 630+66. A pull wire shall be inside each conduit run between pull boxes. LCEC shall install poles with luminaries at locations shown and pull conductors. LCEC shall reinstall decorative poles with luminaries at the locations specified in the plans and pull conductors.
3. Power service and connections to be provided by LCEC.
4. Removal of existing conduits, conductors, pull boxes and foundations shall be included as part of clearing and grubbing.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Cody Rockswold, P.E.
P.E. License Number 72917
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213

PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
DEPARTMENT of TRANSPORTATION
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

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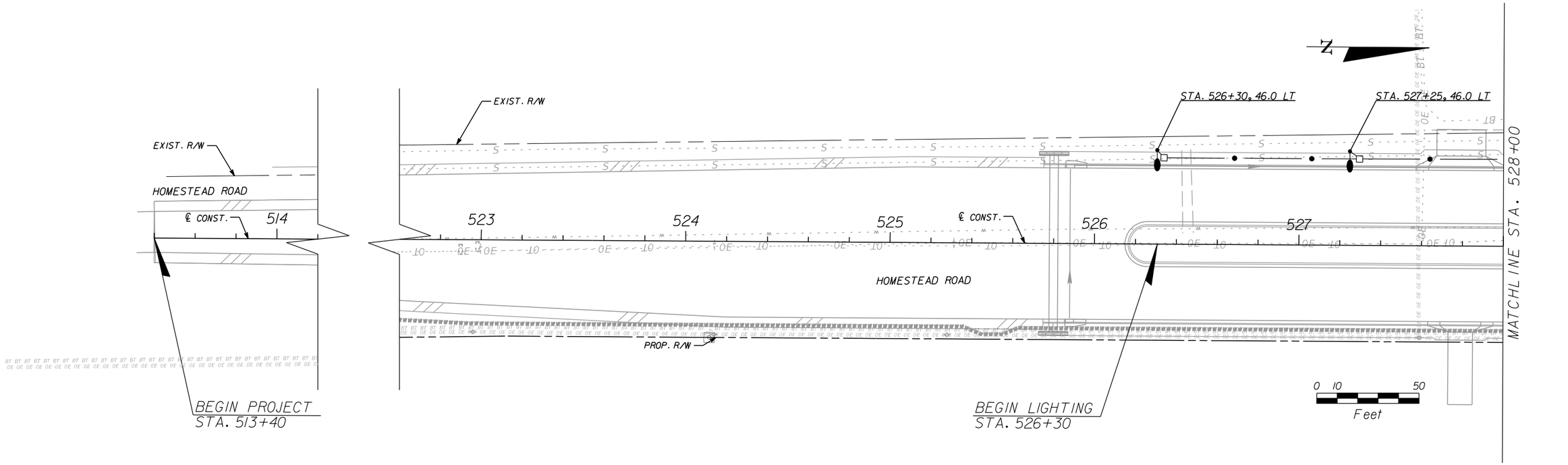
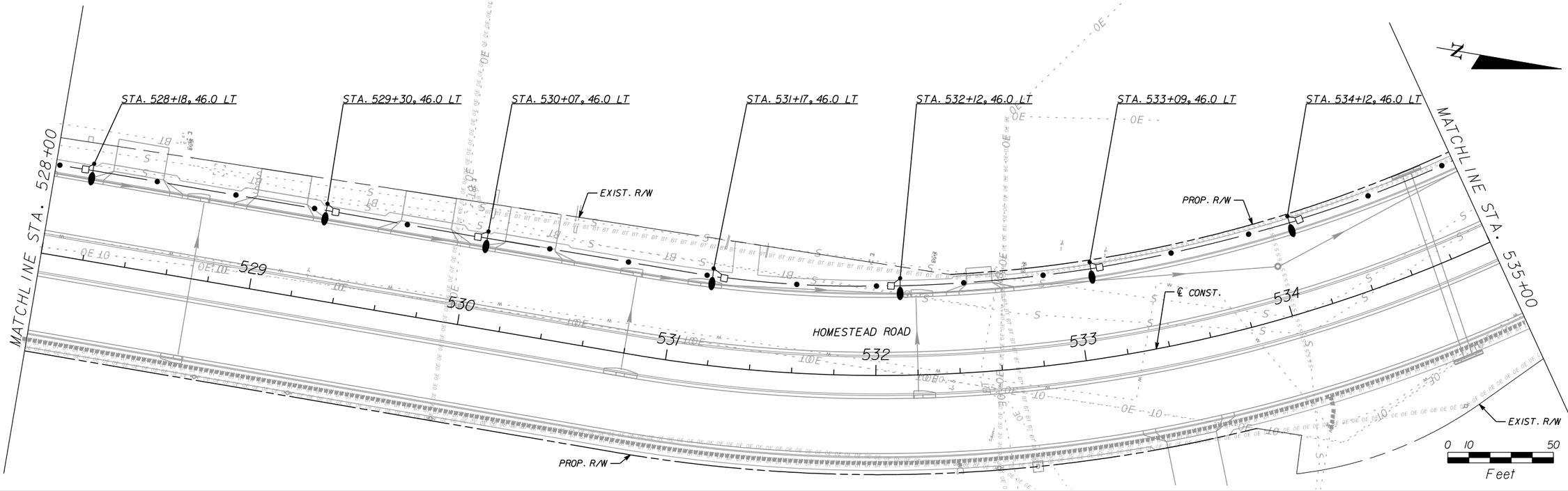
LEGEND, DETAILS & NOTES

SHEET NO. L-3





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Cody Rockswold, P.E.
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HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm

LIGHTING PLANS
HOMESTEAD ROAD

SHEET NO. L-4

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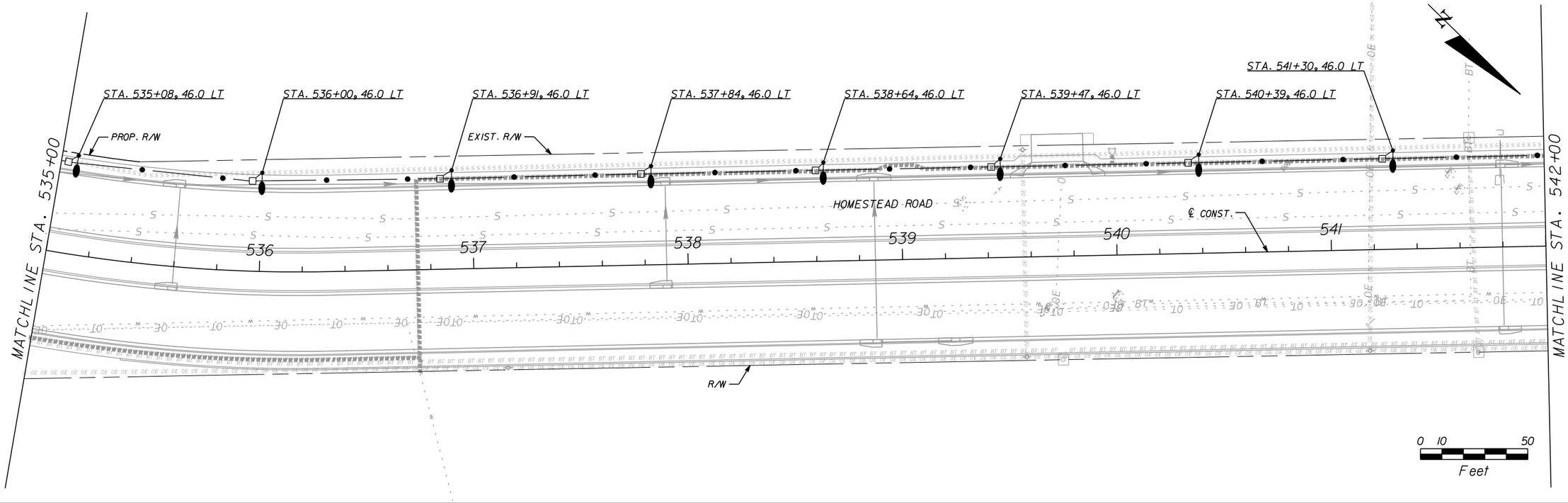

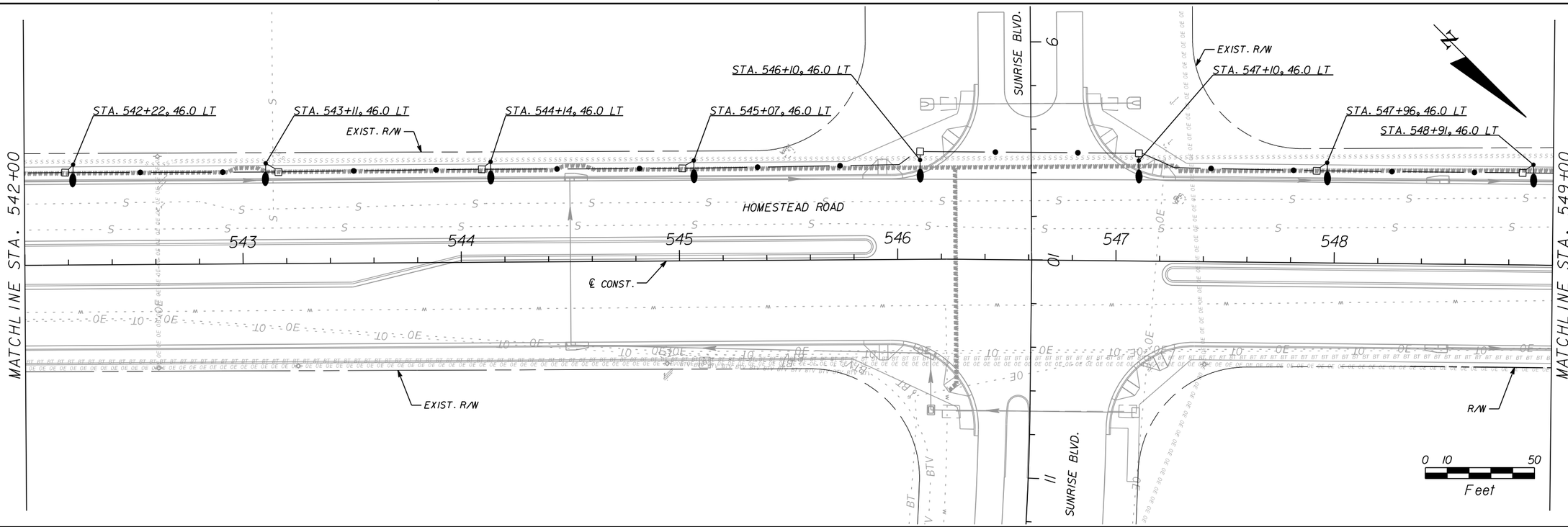

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Cody Rockswold, P.E.
P.E. License Number 72917
HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
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PUBLIC WORKS
LEE COUNTY
SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION

CROCKSWO

LIGHTING PLANS HOMESTEAD ROAD

SHEET NO. L-5

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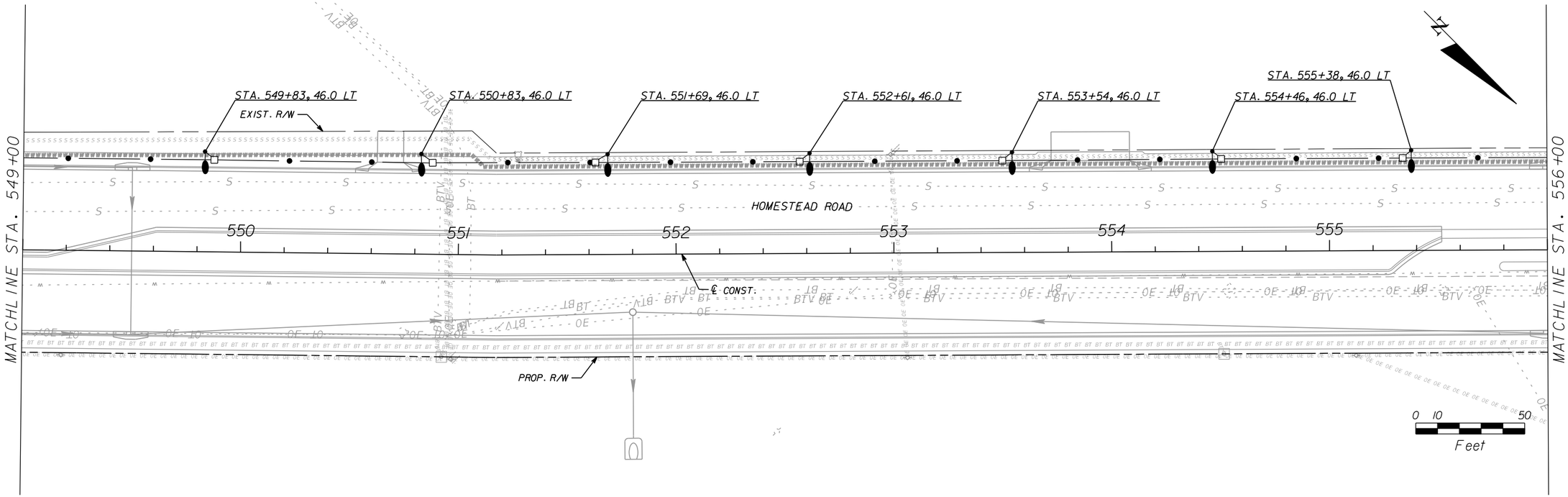

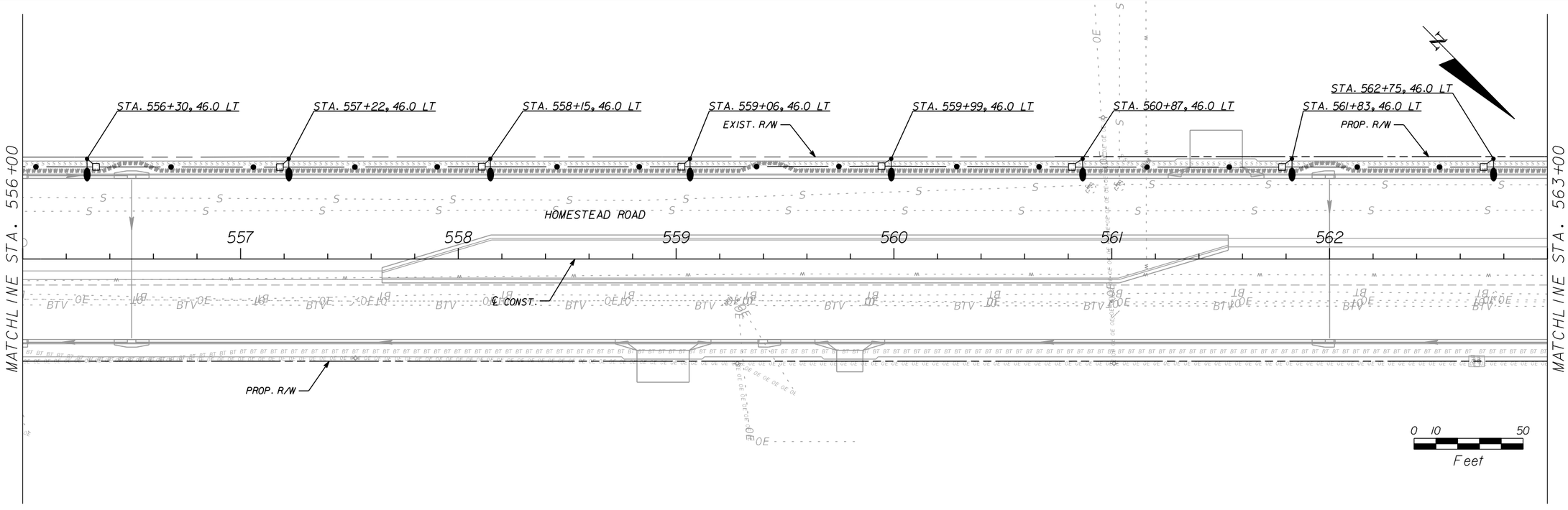

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HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
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1500 MONROE STREET FORT MYERS, FLORIDA 33901
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DEPARTMENT of TRANSPORTATION

LIGHTING PLANS
HOMESTEAD ROAD

SHEET NO. L-6

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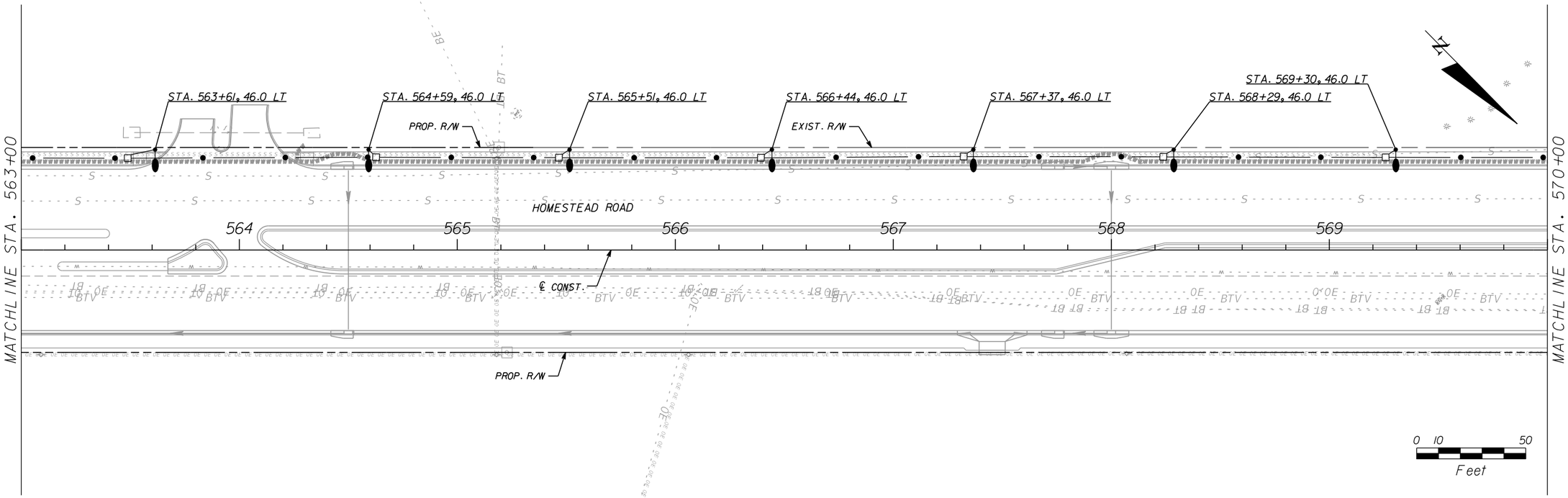

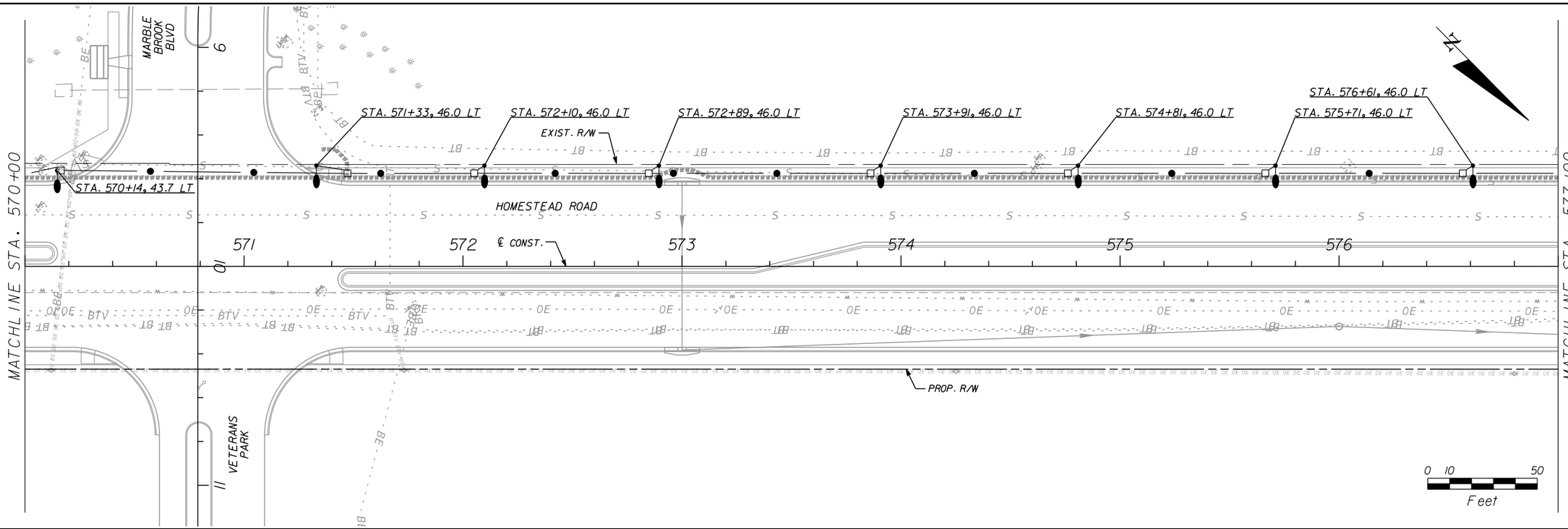

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LIGHTING PLANS
HOMESTEAD ROAD

SHEET NO. L-7

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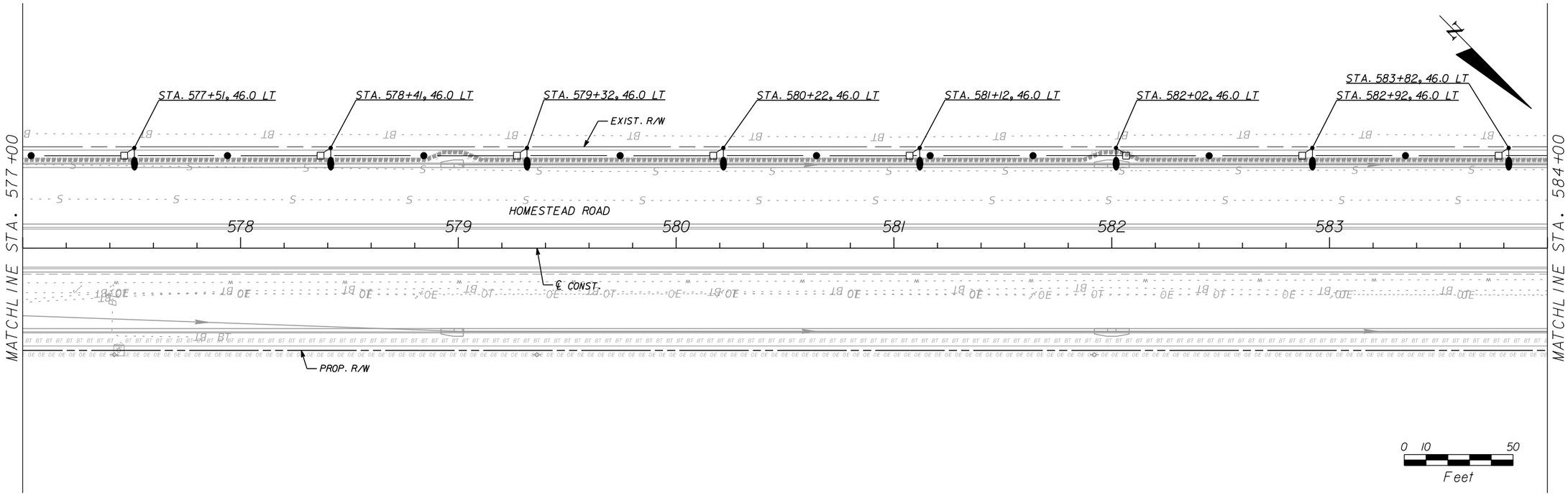

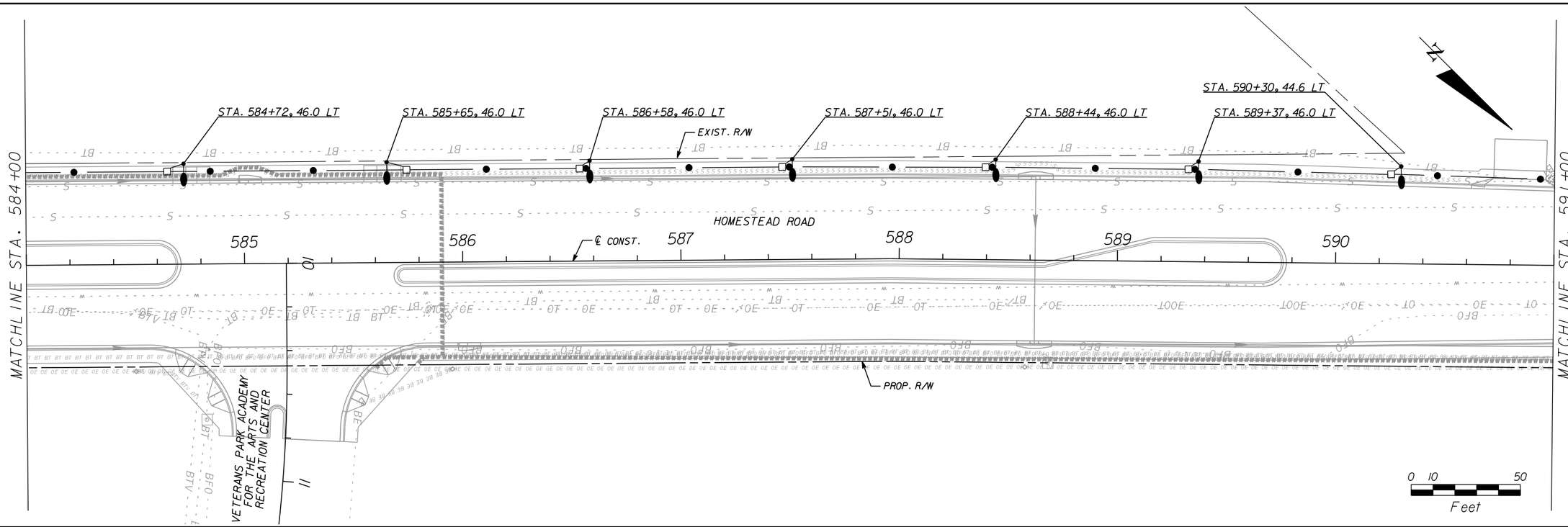

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LIGHTING PLANS HOMESTEAD ROAD

SHEET NO. L-8

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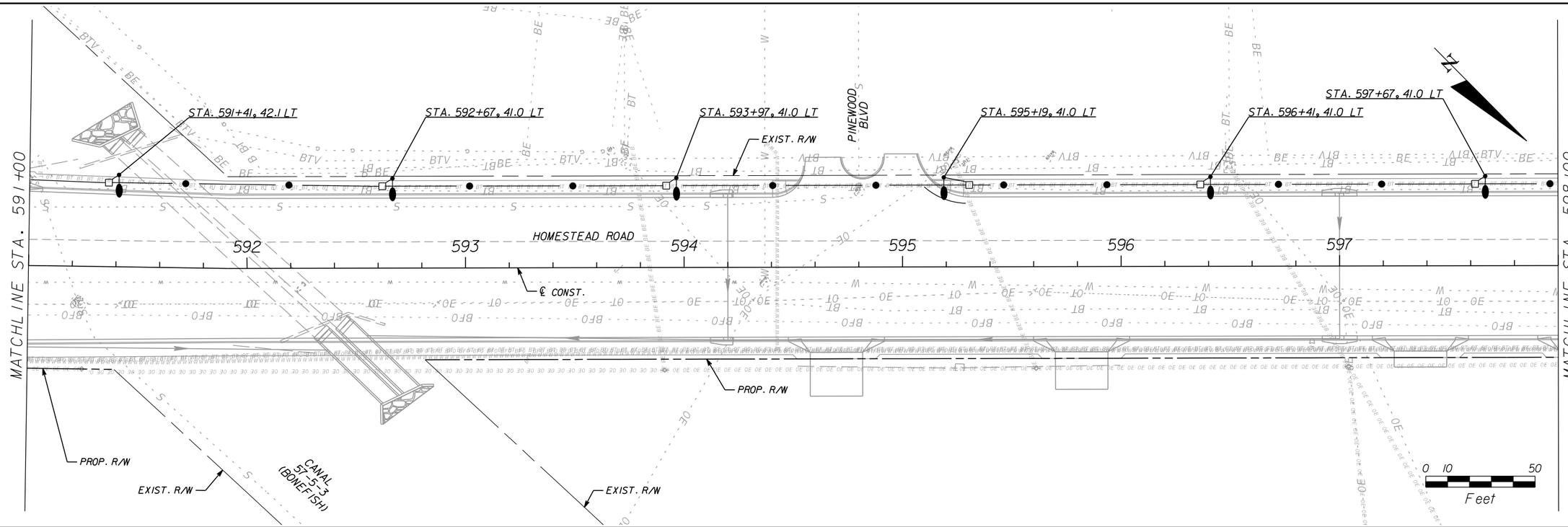

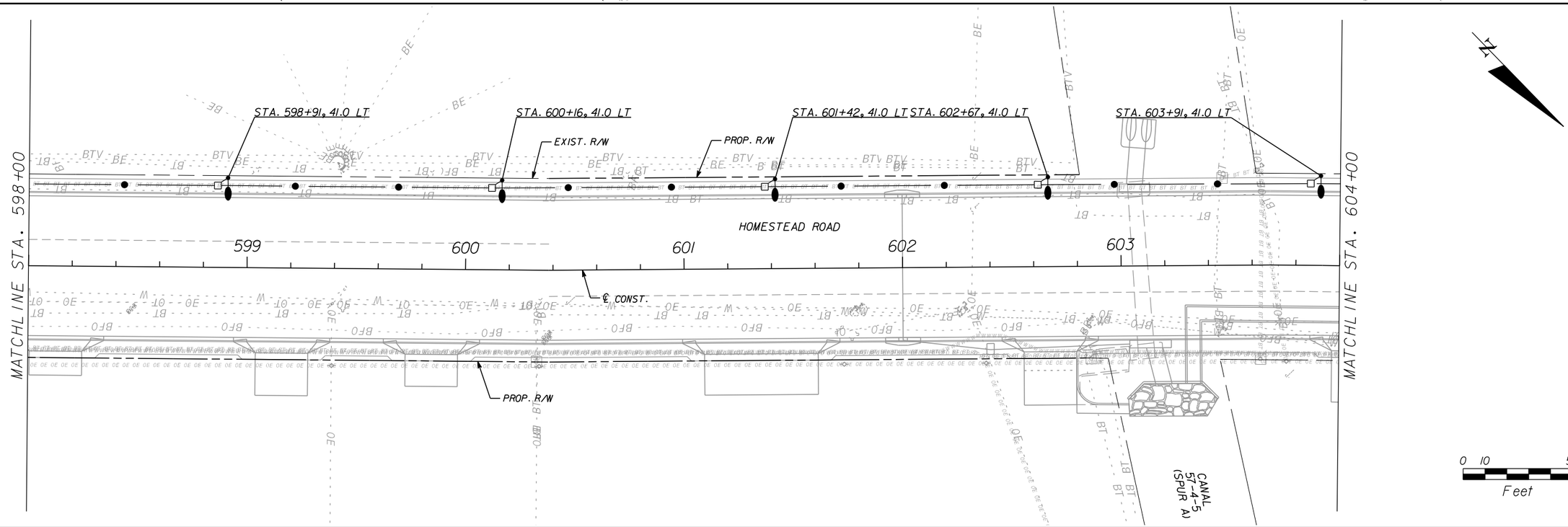

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LIGHTING PLANS HOMESTEAD ROAD

SHEET NO. L-9

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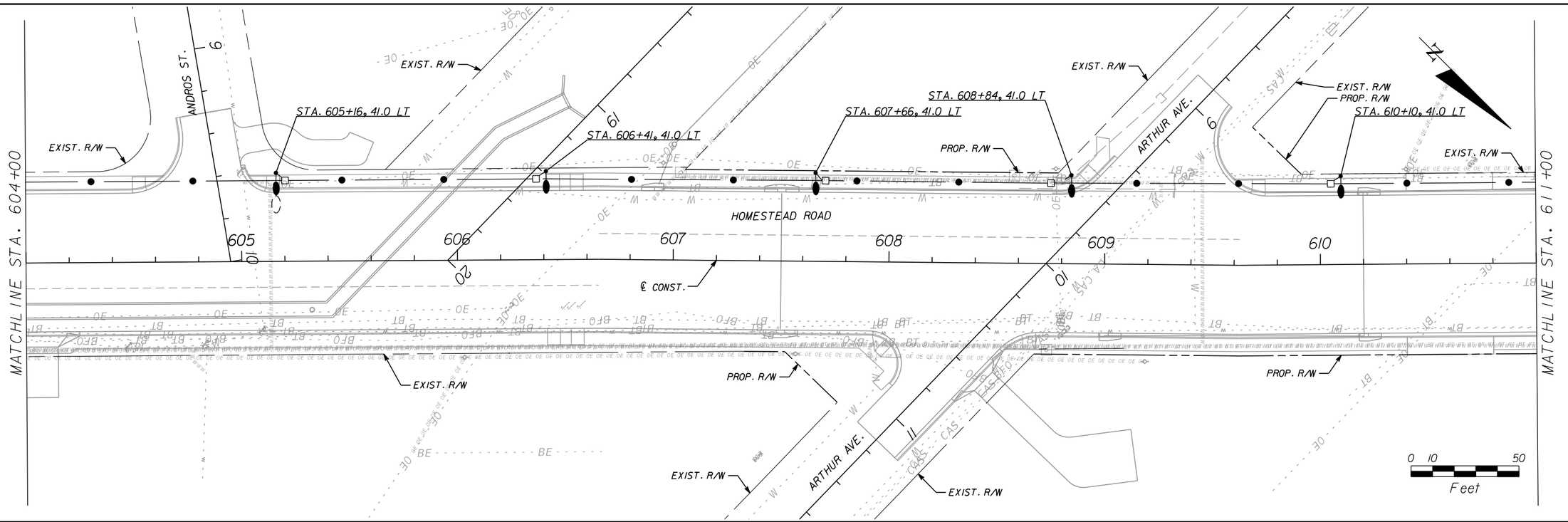

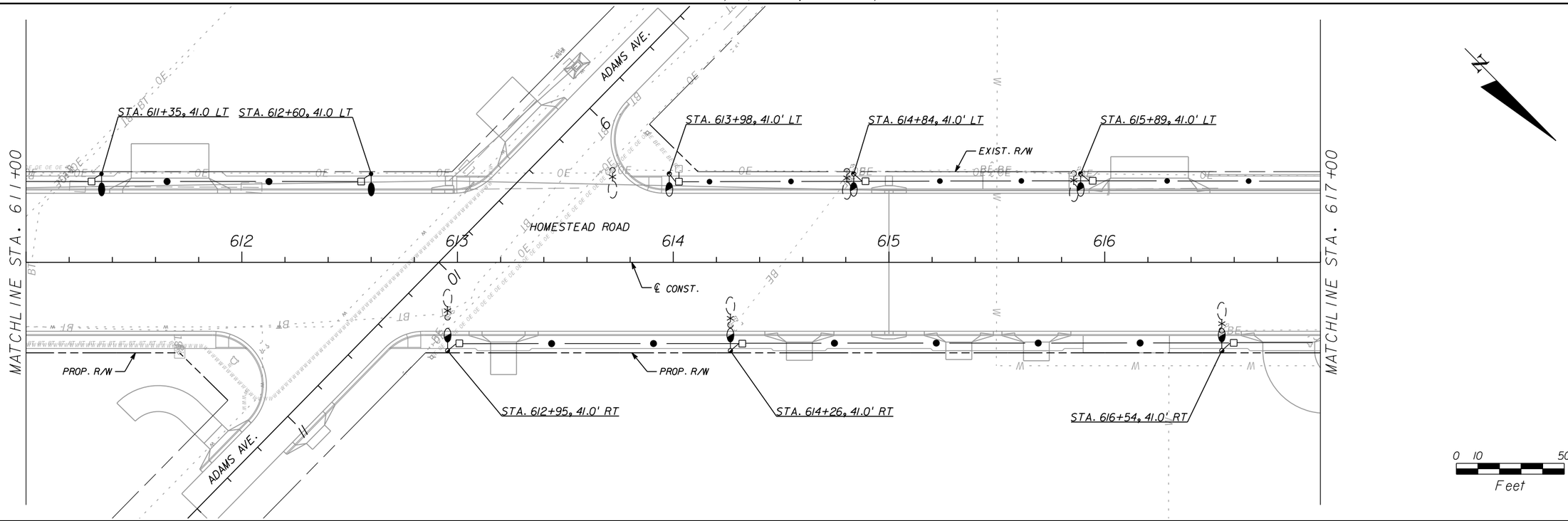

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LIGHTING PLANS HOMESTEAD ROAD

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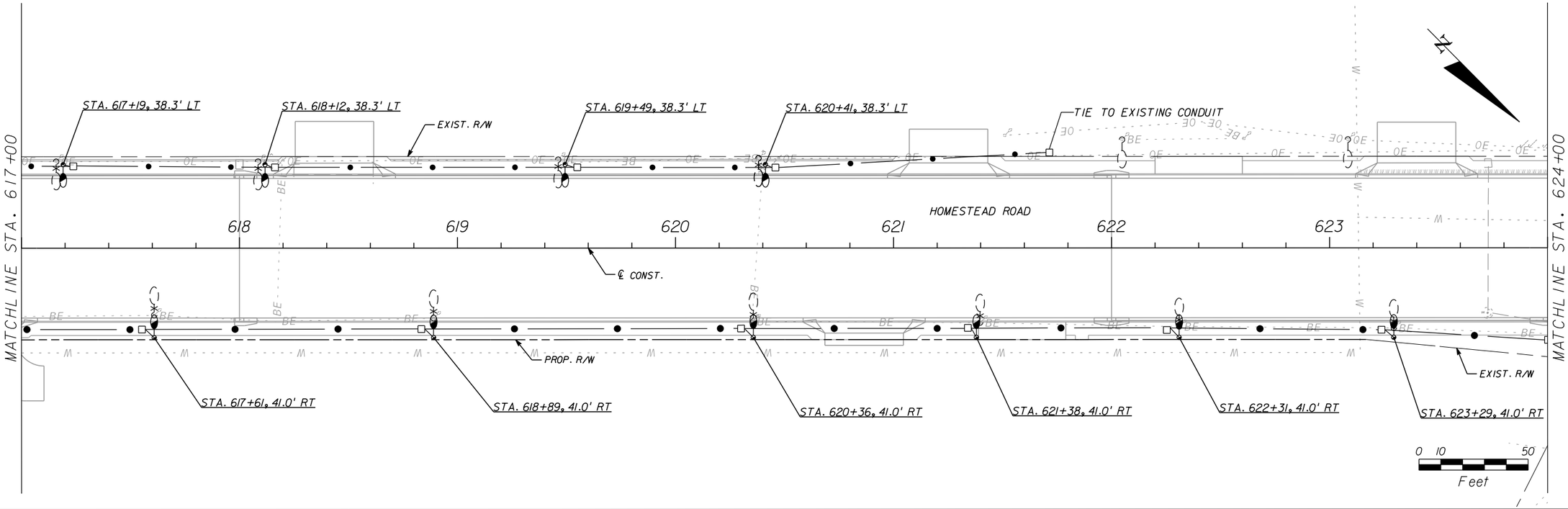

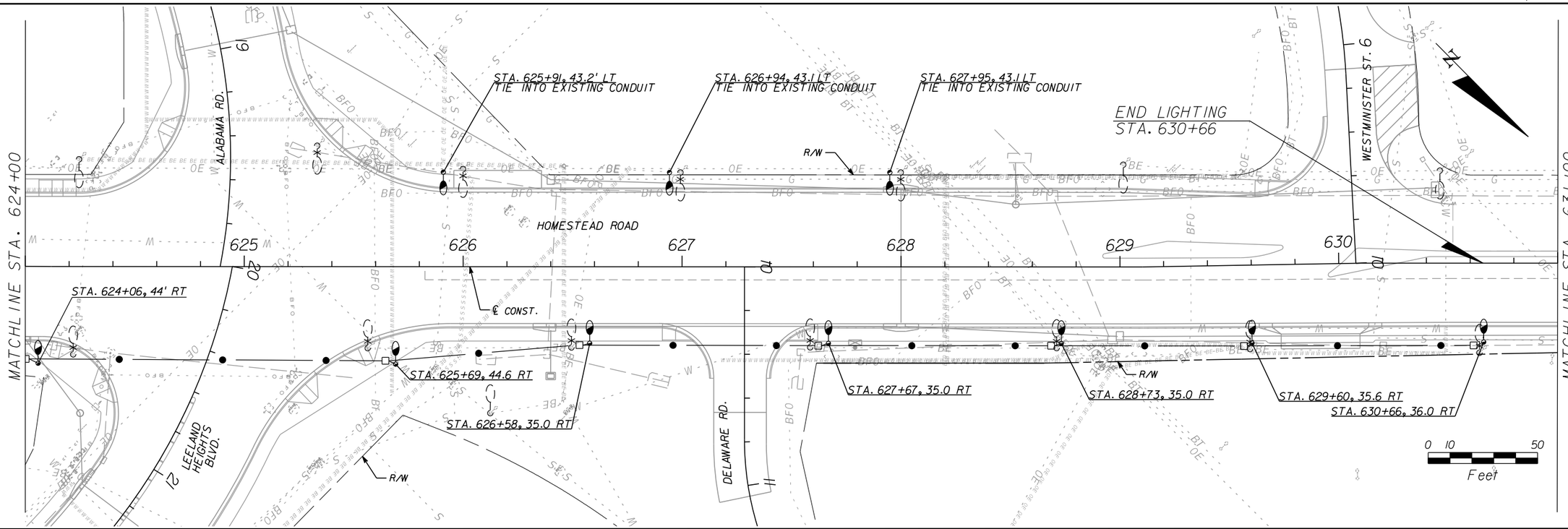

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LIGHTING PLANS
HOMESTEAD ROAD

SHEET NO. L-11

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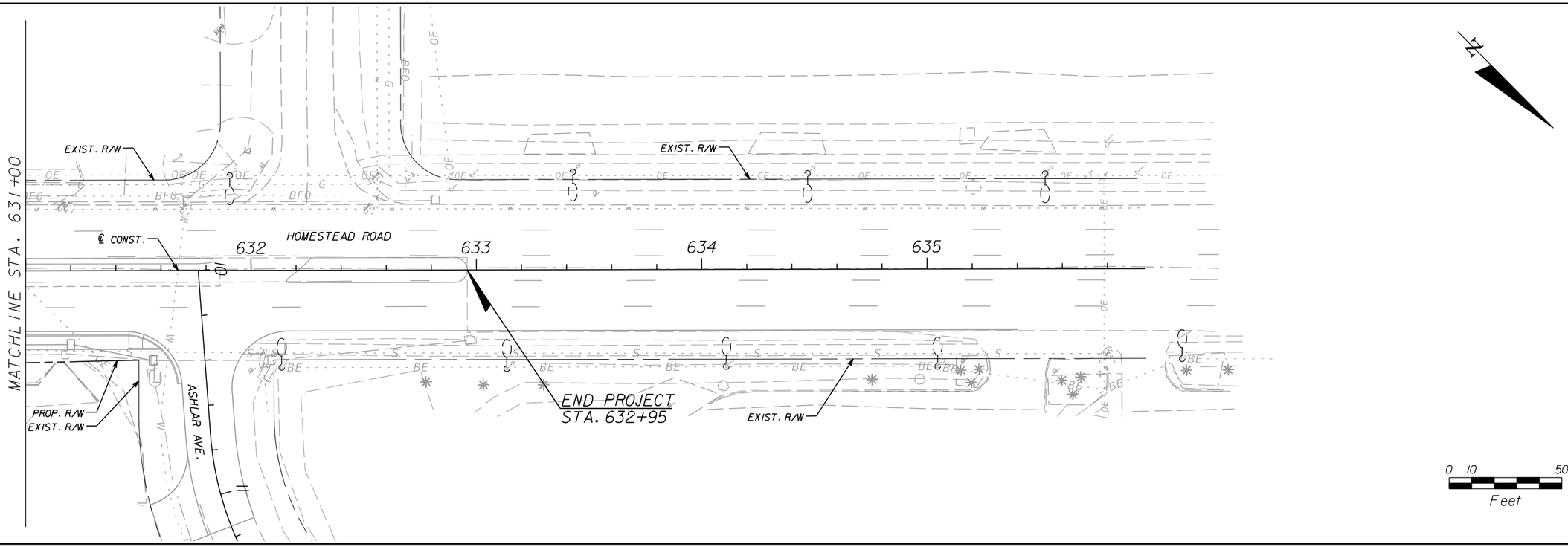

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LIGHTING PLANS
HOMESTEAD ROAD

SHEET NO.
L-12

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LEE COUNTY BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

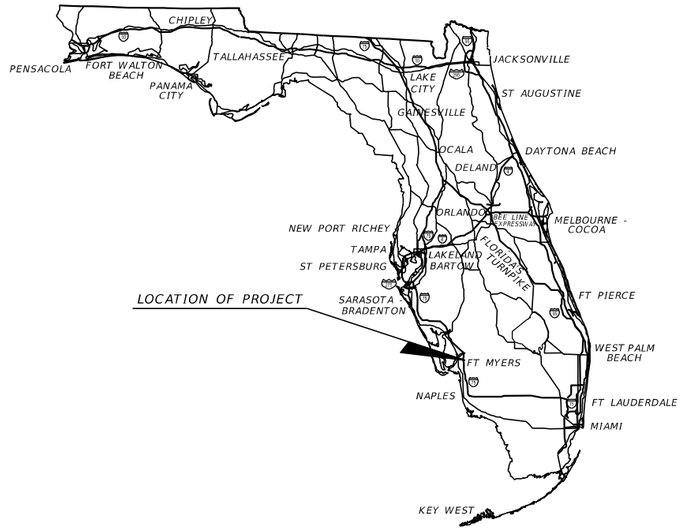
CONTRACT PLANS

PLANS OF PROPOSED

HOMESTEAD ROAD WIDENING

LEE COUNTY
PROJECT NO. 5063

LANDSCAPE PLANS



INDEX OF LANDSCAPE AND IRRIGATION PLANS

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LD-3	IRRIGATION TABULATION OF QUANTITIES
LD-4 TO LD-8	LANDSCAPE PLANS
LD-9	LANDSCAPE NOTES/DETAILS
LD-10 TO LD-14	IRRIGATION PLANS
LD-15	IRRIGATION NOTES
LD-16 TO LD-18	IRRIGATION DETAILS
LD-19	IRRIGATION WELL AND PUMP STATION OVERALL SITE PLAN
LD-20	PUMP STATION DETAILED SITE PLAN
LD-21	PUMP STATION DETAILS AND NOTES

LIGHTING SHOP DRAWINGS
TO BE SUBMITTED TO:
SUNSHINE BULLOCK, RLA
HDR ENGINEERING, INC.
200 WEST FORSYTH STREET, SUITE 800
JACKSONVILLE, FLORIDA 32202
CERTIFICATE OF AUTHORIZATION NO. 4213

PLANS PREPARED BY:

HDR Engineering, Inc.
2601 Cattlemen Road, Suite 400
Sarasota, FL 34232-6233
Certificate of Authorization 4213
Vendor No. 47-0680568
Contract No. 3806

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

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS:
LIST OF DEVIATIONS: NONE

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD: SUNSHINE N. BULLOCK, RLA

RLA NO.: 6666817

DATE: _____

DEVELOPMENT ORDER APPROVED:
LEE COUNTY PUBLIC WORKS ADMINISTRATOR
DIRECTOR, P W TRANSPORTATION:

DAVID LOVELAND

DATE: _____

KEY SHEET REVISIONS	
DATE	DESCRIPTION

CALL SUNSHINE TWO FULL BUISNESS DAYS
BEFORE YOU DIG, IT'S THE LAW!
(800) 432-4770, WWW.CALLSUNSHINE.COM

LEE COUNTY PROJECT MANAGER: SARAH CLARKE

SHEET NO.
LD-1

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LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	DESCRIPTION	INSTALLED SIZE	SPACING	REMARKS	SHEET NUMBERS										GRAND TOTAL	
						LD-4		LD-5		LD-6		LD-7		LD-8			
						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-2	IA	ILEX X ATTENUATA / EAST PALATKA HOLLY	5" CAL., 12'-14' HT., 4" MIN. SPR.	AS NOTED	FULL,DENSE,MATCHED PLANTS	5		5		15						25	
580-1-2	PE	PINUS ELLIOTTII 'DENSA' / SOUTH FLORIDA SLASH PINE	4" CAL., 12'-14' HT., 3.5' MIN. SPR.	AS NOTED	FULL,DENSE,MATCHED PLANTS	9		8		10				7		34	
580-1-2	LIM	LAGERSTROEMIA INDICA "MUSKOGEE"/CRAPE MYRTLE	14' OA HT, MULTI-TRUNK 3 MIN	AS NOTED	FULL,DENSE,MATCHED PLANTS	7		9		10		7		7		40	
580-1-2	SP	SABAL PALMETTO / CABBAGE PALM	16' C.T., 15" MIN. CAL.	AS NOTED	FULLY BOOTED & MATCHED					8		7				15	
580-1-2	QV	QUERCUS VIRGINIANA / CATHEDRAL LIVE OAK	6" CAL., 15'-18' HT., 5.5' MIN. SPR.	AS NOTED	FULL,DENSE,MATCHED PLANTS	10		5						10		25	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Sunshine N. Bullock, RLA
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DEPARTMENT
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LANDSCAPE PLANS
HOMESTEAD ROAD

TABULATION OF QUANTITIES

SHEET NO. LD-2

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IRRIGATION TABULATION OF QUANTITIES

SYMBOL	QUANTITY	UNIT	DESCRIPTION / REMARKS
LP-.75	1800	LF	3/4" PVC CLASS 200 SOLVENT WELD
LP-1	940	LF	1" PVC CLASS 200 SOLVENT WELD
LP-1.25	1100	LF	1-1/4" PVC CLASS 200 SOLVENT WELD
LP-1.5	805	LF	1-1/2" PVC CLASS 200 SOLVENT WELD
LP-2	497	LF	2" PVC CLASS 200 SOLVENT WELD
ML	4000	LF	4" PVC CLASS 200 GASKET
FP	1390	LF	3/8" FLEXIBLE POLYETHYLENE TUBING (FUNNY PIPE)
BB1	15	EA	HIT 502-15 PROLINE PRESSURE COMPENSATING FLOOD BUBBLER 0.5 GPM
BB2	124	EA	HIT 502-17 PROLINE PRESSURE COMPENSATING FLOOD BUBBLER 1.0 GPM
CON	1	EA	HUNTER ACC-99D W/ ACC-COM-GSM SIM CARD
DEC	1	EA	HUNTER ICD-100 SIGNLE STATION DECODER
SV	6	EA	RAINBIRD PESB-R SERIES ELECTRIC SOLENOID VALVE
CW	9500	LF	AWG 12 GA. SOLID COPPER INSULATED CONTROL WIRE FOR DIRECT BURIAL
GV1	5	EA	2-1/2" RED WHITE VALVE SERIES 206
GV2	1	EA	2" RED WHITE VALVE SERIES 206
GVM	3	EA	4" MECHANICAL JOINT RESILIENT WEDGE GATE VALVE
SB01	1	EA	4" BLOWOFF ASSEMBLY
SB02	1	EA	2" BLOWOFF ASSEMBLY
PS	1	LS	IRRIGATION PUMP STATION W/ WELL CONNECTION
EL	1	LS	ELECTRICAL CONNECTION FROM PUMP STATION TO PULL BOX

ASSOCIATED MATERIALS REQUIRED TO PROVIDE A COMPLETE, FUNCTIONING IRRIGATION SYSTEM, INCLUDING BUT NOT LIMITED TO, GROUNDING, VALVE BOXES, WIRE & CONNECTORS, PRESSURE GAUGES, ETC., ARE ANCILLARY TO THE SYSTEM AND THEIR COSTS SHOULD BE INCLUDED IN RELEVANT ELEMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL LEE COUNTY AND OTHER REGULATORY REQUIREMENTS FOR IRRIGATION.

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IRRIGATION PLANS
HOMESTEAD ROAD

TABULATION OF QUANTITIES

SHEET NO.
LD-3

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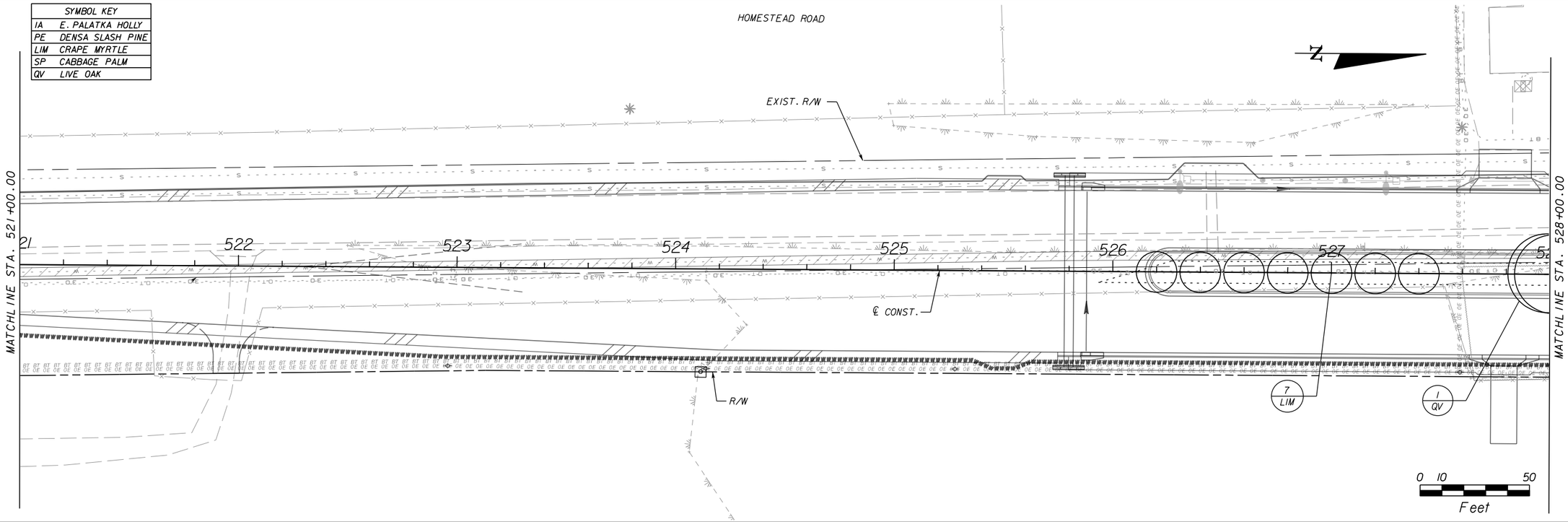
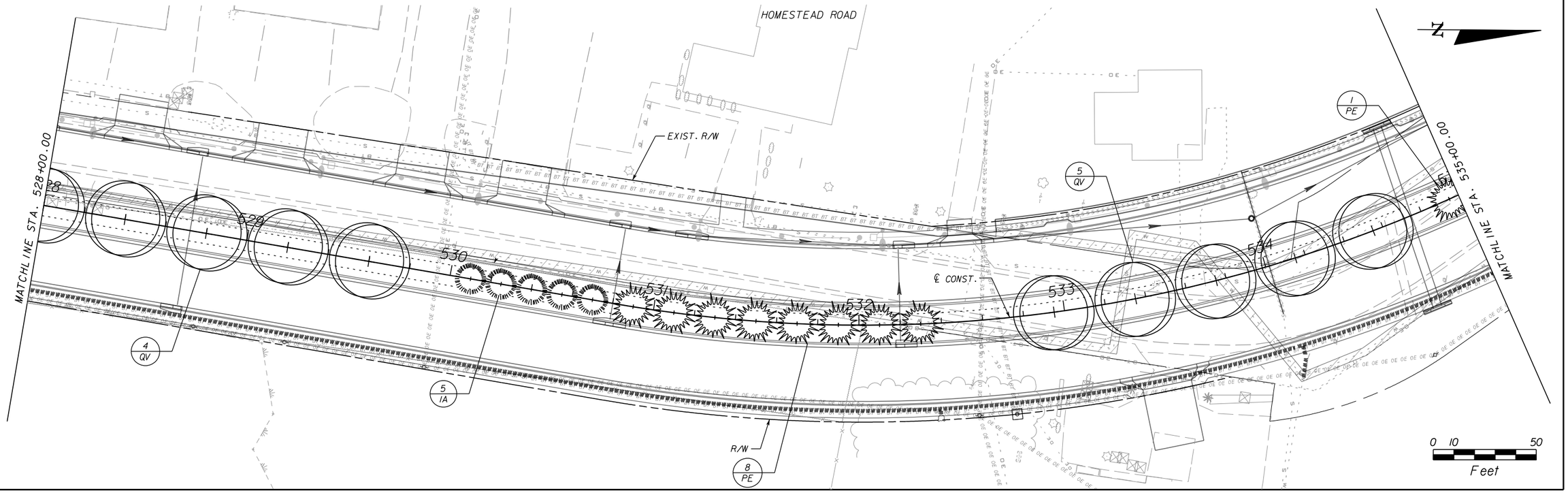
SYMBOL KEY	
IA	E. PALATKA HOLLY
PE	DENSA SLASH PINE
LIM	CRAPE MYRTLE
SP	CABBAGE PALM
QV	LIVE OAK





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LANDSCAPE PLANS
HOMESTEAD ROAD

SHEET NO. LD-4

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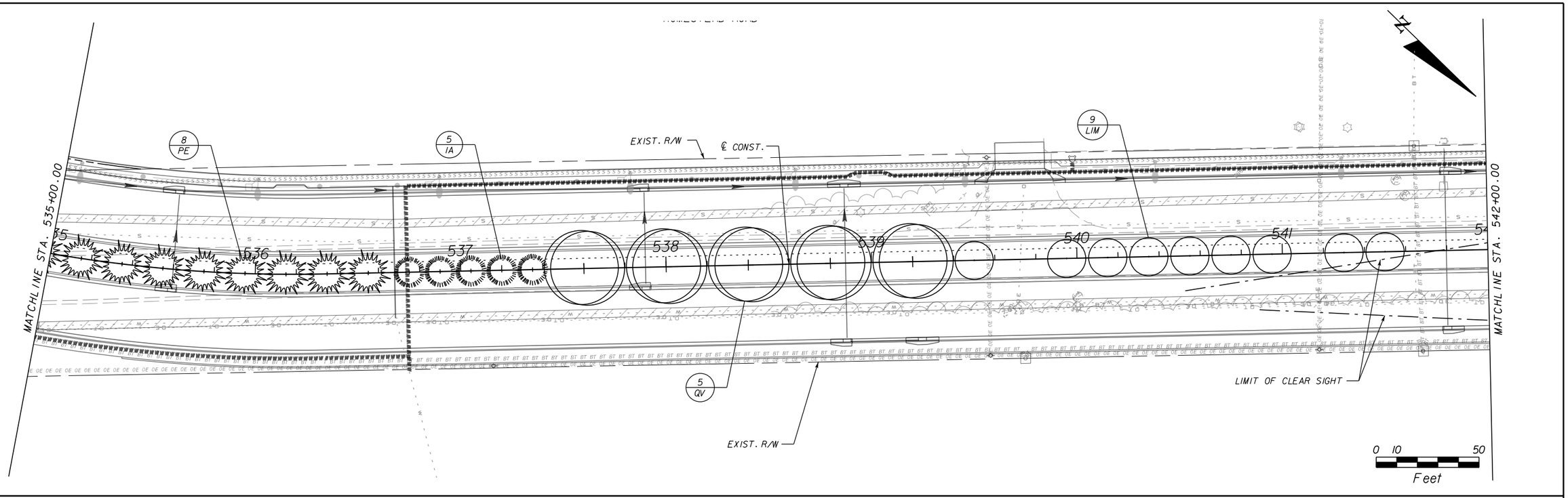

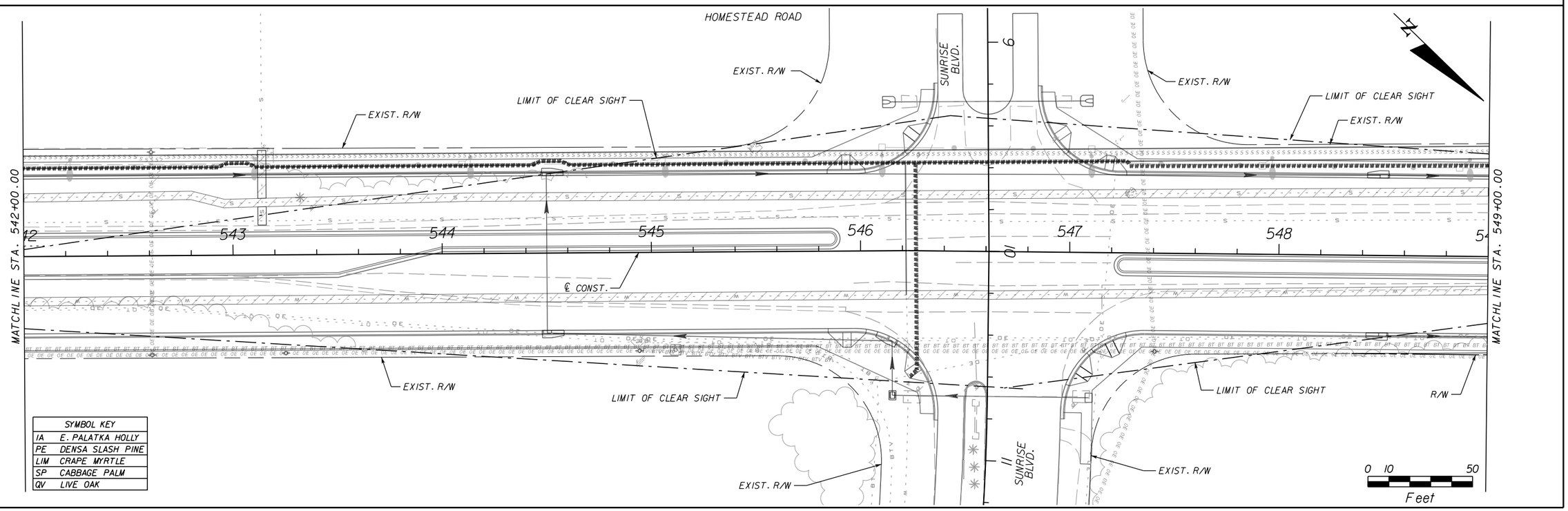

SYMBOL KEY	
IA	E. PALATKA HOLLY
PE	DENSA SLASH PINE
LIM	CRAPE MYRTLE
SP	CABBAGE PALM
QV	LIVE OAK

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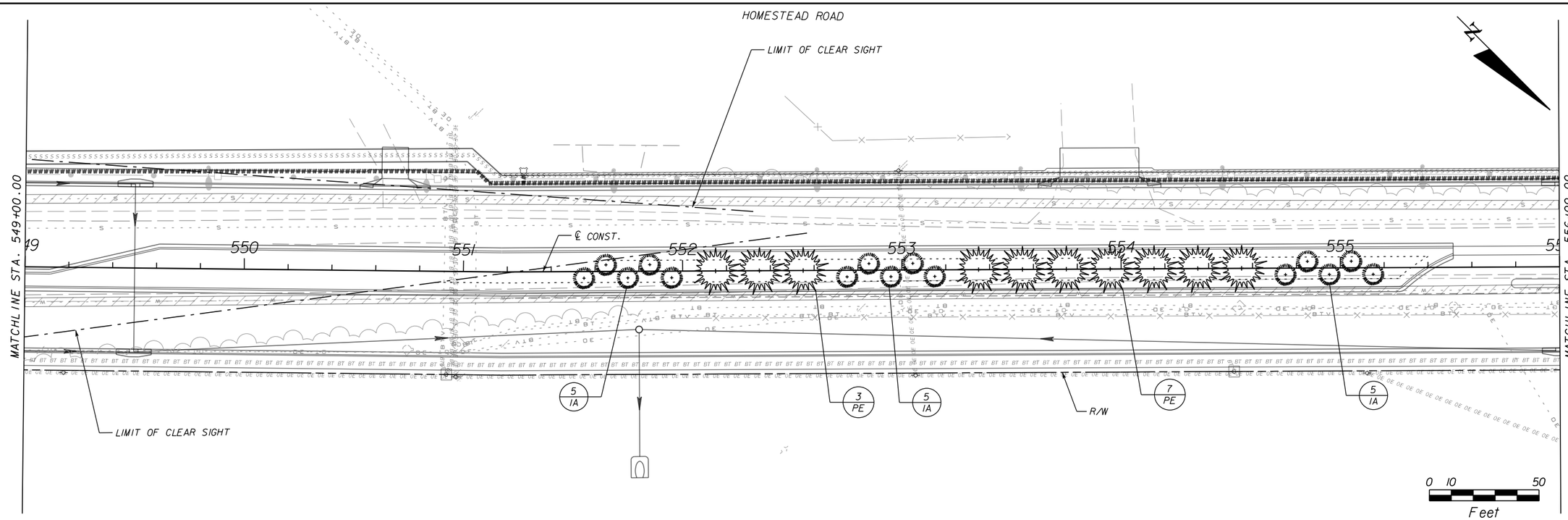
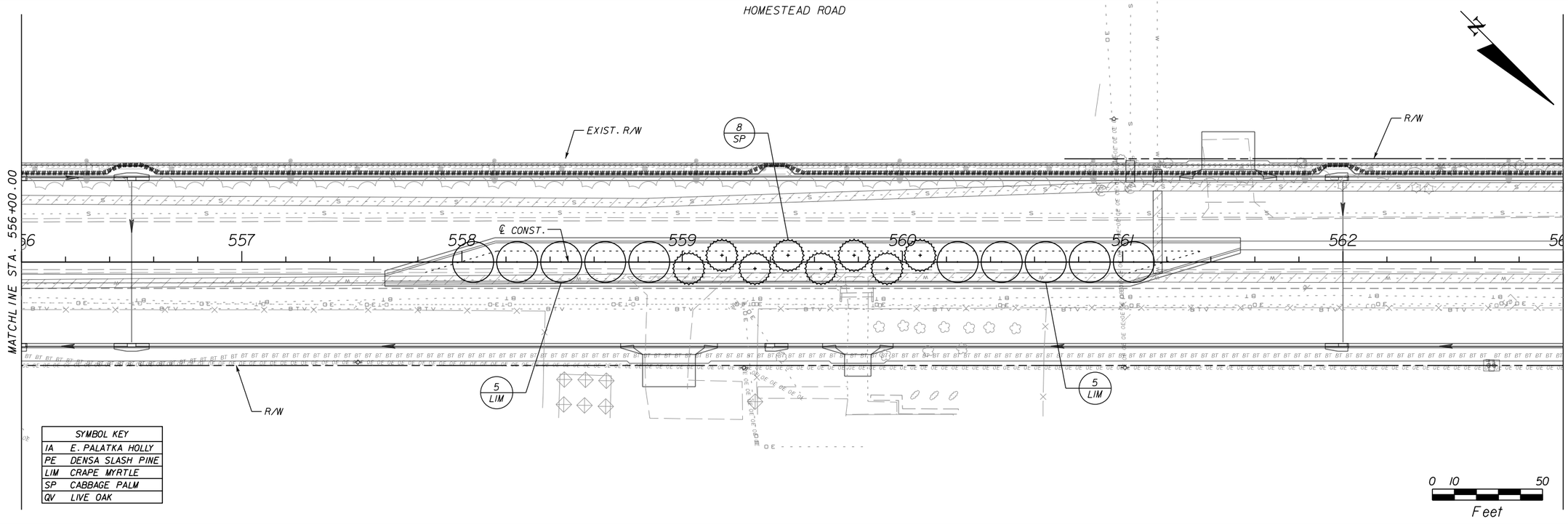
LANDSCAPE PLANS
HOMESTEAD ROAD

SHEET NO. LD-5





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FORT MYERS, FLORIDA 33901

LANDSCAPE PLANS
HOMESTEAD ROAD

SHEET NO. LD-6

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HOMESTEAD ROAD

MATCHLINE STA. 563+00.00

MATCHLINE STA. 570+00.00

EXIST. R/W

LIMIT OF CLEAR SIGHT

563 564 565 566 567 568 569

7 SP

℄ CONST.

R/W

LIMIT OF CLEAR SIGHT

0 10 50

Feet

HOMESTEAD ROAD

MARBLE BROOK LN.

PT STA. 9+00.10

LIMIT OF CLEAR SIGHT

EXIST. R/W

LIMIT OF CLEAR SIGHT

MATCHLINE STA. 570+00.00

MATCHLINE STA. 577+00.00

℄ CONST.

570 571 572 573 574 575 576

7 LIM

R/W

LIMIT OF CLEAR SIGHT

LIMIT OF CLEAR SIGHT

VETERANS PARK

SYMBOL KEY	
IA	E. PALATKA HOLLY
PE	DENSA SLASH PINE
LIM	CRAPE MYRTLE
SP	CABBAGE PALM
QV	LIVE OAK

0 10 50

Feet

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2601 Cattlemen Road, Suite 400
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Certificate of Authorization 4213

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LANDSCAPE PLANS
HOMESTEAD ROAD

SHEET NO. LD-7

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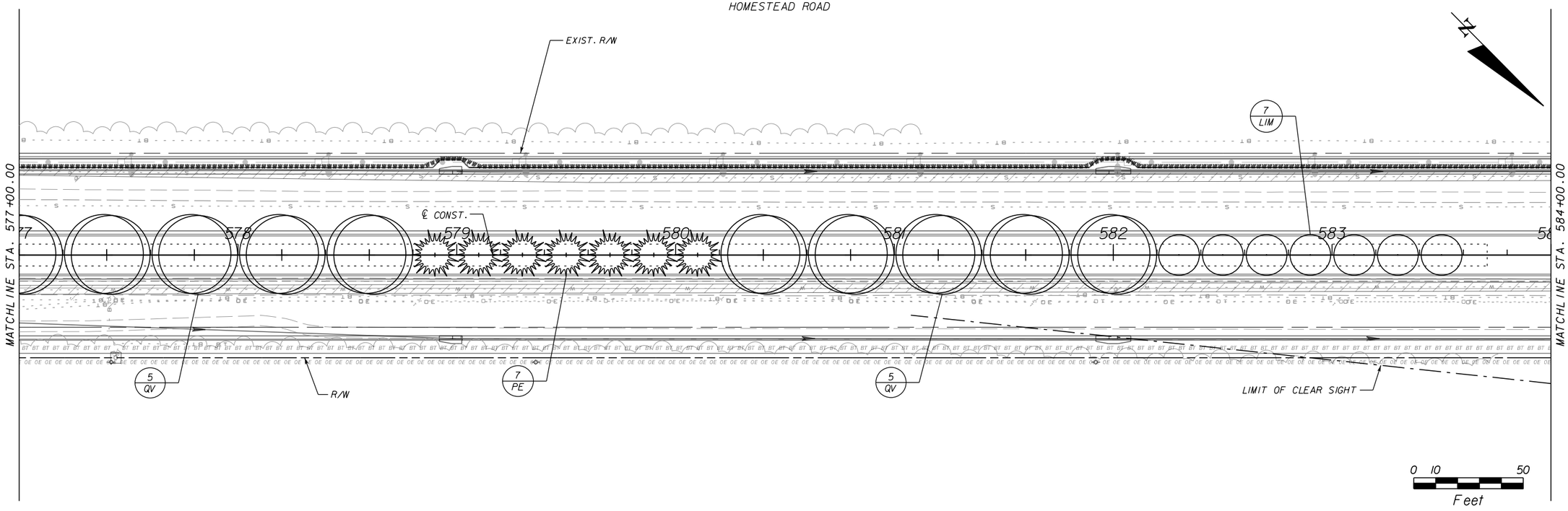
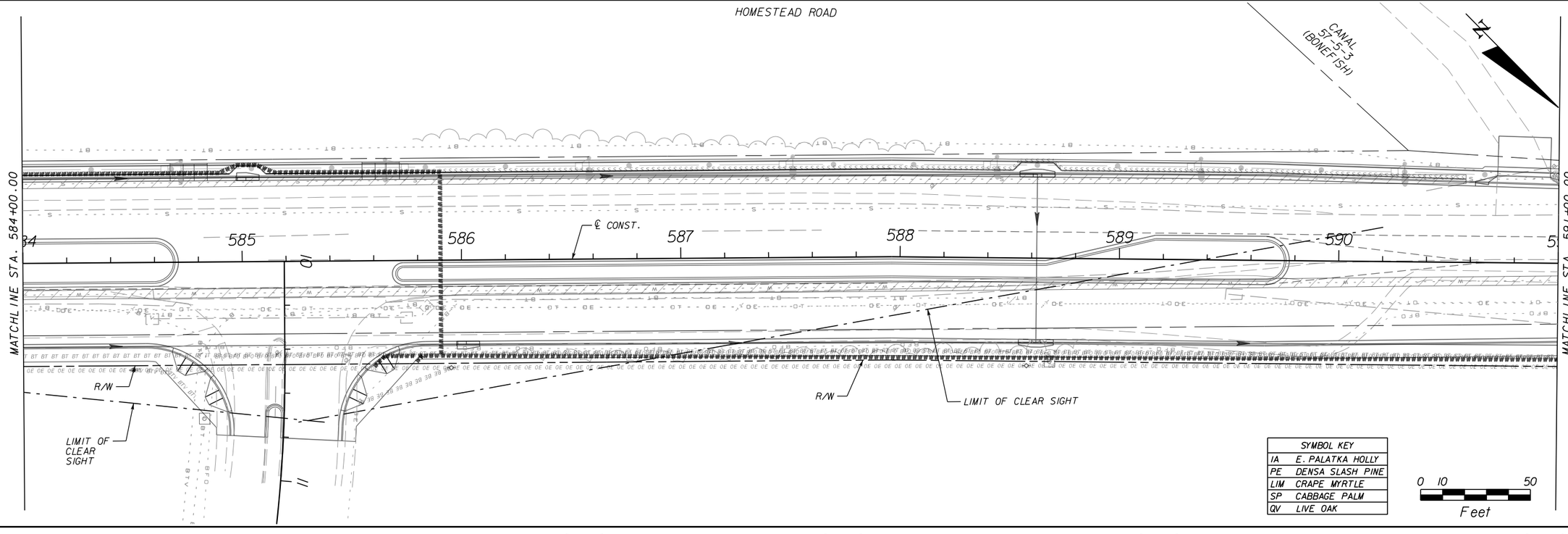
HOMESTEAD ROAD



HOMESTEAD ROAD



SYMBOL KEY	
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PE	DENSA SLASH PINE
LIM	CRAPE MYRTLE
SP	CABBAGE PALM
QV	LIVE OAK

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LANDSCAPE PLANS
HOMESTEAD ROAD

SHEET NO.
LD-8

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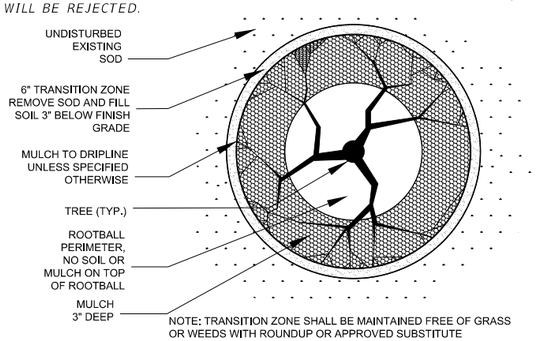
LANDSCAPE NOTES

1. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SAFE, SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
2. CONTRACTOR IS ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
3. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CONTACT THE JOB SITE SUPERINTENDENT, CALL SUNSHINE, CALL LEE COUNTY UTILITIES AND CALL LEE COUNTY TRAFFIC FOR LOCATIONS OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK.
4. ALL SOD SHALL BE SAND GROWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN SOD AREAS. HAND RAKE PRIOR TO INSTALLING SOD. CONTRACTOR TO CUT IN AND MATCH NEW SOD TO EXISTING SOD. STAGGER JOINTS AND CLOSE ALL GAPS. ALL SOD TO BE ROLLED IMMEDIATELY AFTER INSTALLATION. ALL SOD SHALL BE CERTIFIED AS BEING FREE OF THE WEED TROPICAL SODA APPLE. (SOLANUM VIARUM)
5. CONTRACTOR SHALL APPLY A MINIMUM OF 2 APPLICATIONS OF APPROVED HERBICIDE TO EXISTING TURFGRASS AREAS WHERE IT WILL BECOME A PLANTED OR MULCHED AREA AS A RESULT OF THIS PROJECT. HERBICIDE MUST BE APPLIED BEFORE COMMENCING ANY GRADING OPERATIONS. CONTRACTOR SHALL REVIEW KILL WITH OWNER'S REPRESENTATIVE FOR APPROVAL. ALL HERBICIDES MUST BE APPLIED BY LICENSED APPLICATORS AND PER THE MANUFACTURER'S RECOMMENDED RATES AND INSTRUCTIONS. POST ALL APPLICATION NOTICES.
6. CONTRACTOR SHALL INSTALL ALL SOIL AS REQUIRED BY THE PROJECT. CONSTRUCT ANY BERMING TO BLEND IN WITH EXISTING GRADE. ALL SOIL MATERIAL SHALL BE A CLEAN SOIL SUITABLE FOR PLANT GROWTH. BACKFILL PLANTING HOLES WITH A 75 / 25 MIX OF ORGANICLEE™ COMPOST AND CLEAN SAND. SUBMIT SOIL SAMPLE TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. ALL AREAS TO BE GRADED SHALL RECEIVE A SMOOTH UNIFORM HAND GRADE. NO SOIL IS TO BE PLACED AROUND EXISTING TREES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS SOIL AND DEBRIS FROM THE INSTALLATION OF THIS PROJECT, AND IT SHALL BE TAKEN TO A LAWFUL DISDOSAL SITE.
8. MULCH ALL NEWLY PLANTED AREAS AND AREAS TO RECEIVE MULCH WITH A SETTLED 3" DEPTH OF THE SPECIFIED RECYCLED MULCH. TREES AND PALMS WITHIN AREAS OF TURFGRASS SHALL BE MULCHED TO THEIR DRIPLINE OR STAKES, WHICHEVER IS GREATER. STAKES SHALL BE AT LEAST 6" INSIDE THE MULCHED RING.
9. THE CONTRACTOR SHALL HAND WATER ALL PLANT MATERIAL DAILY UNTIL SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BE LIABLE FOR REPLACING PLANT MATERIALS EXPERIENCING TRANSPLANT SHOCK OR INPROPER CARE, AT ANY TIME DURING THE COURSE OF THE CONTRACT PERIOD.
10. CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED DURING THE COMPLETION OF WORK.
11. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NUMBER 1 OR BETTER AS ESTABLISHED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
12. ALL PLANT MATERIAL MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
13. CONTRACTOR SHALL STAKE ALL TREES AND PALMS PER THE STAKING DETAILS.
14. ALL TREE RINGS AND MULCHED AREAS EVIDENCING WEED GROWTH SHALL BE SPRAYED WITH THE APPROVED HERBICIDE AT THE MANUFACTURER'S RECOMMENDED APPLICATION RATE. MULCHED AREAS SHALL REMAIN WEED FREE UNTIL FINAL ACCEPTANCE.
15. THE OWNER RESERVES THE RIGHT TO MODIFY PLANT PLACEMENT IN THE FIELD AS CONDITIONS DICTATE.
16. PLANT MATERIAL SHALL BE INSTALLED CONCURRENT WITH THE IRRIGATION SYSTEM.
17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING ANY WORK.
18. THE ROOT FLAIR AND ORIGIN OF THE FIRST EMERGING ROOT OF THE ROOT BALL SHALL BE 2" ABOVE FINISH GRADE AND VISIBLE AT INSPECTION. IF NOT, THE TREE WILL BE REJECTED.

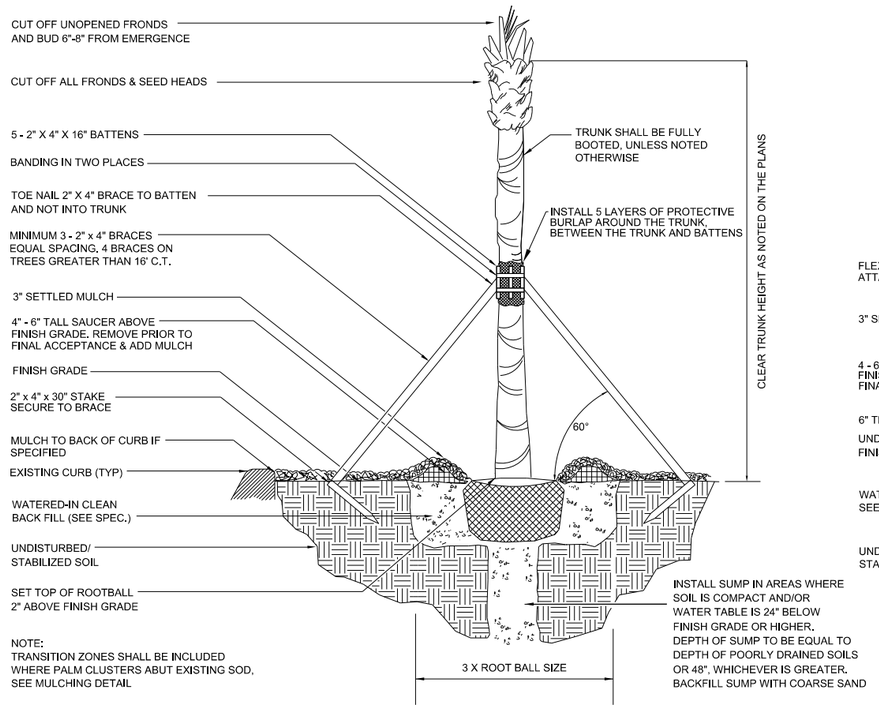


TREE MULCHING DETAIL

N.T.E.

SITE MAINTENACE PROGRAM

1. FROM THE NOTICE-TO-PROCEED DATE, A COMPREHENSIVE MAINTENANCE PROGRAM FOR ALL PLANT MATERIALS, IRRIGATION COMPONENTS AND ALL OTHER ITEMS INSTALLED OR TO BE MAINTAINED BY THE CONTRACTOR, SHALL COMMENCE AND CONTINUE DURING THE DURATION OF THE INSTALLATION AND MAINTENANCE PHASES OF THE CONTRACT AND UNTIL FINAL COMPLETION AND ACCEPTANCE BY LEE COUNTY. PLEASE REFER TO THE LANDSCAPE WORK AND SITE MAINTENANCE SECTIONS OF THE SPECIFICATIONS FOR FURTHER INFORMATION.
2. SITE MAINTENANCE TASKS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING TASKS:
   a. MAINTAIN ALL NEWLY PLANTED MATERIALS BY WATERING, PRUNING, CULTIVATING, FERTILIZING AND WEEDING FOR HEALTHY GROWTH AND WEED FREE PLANTING AND MULCHED AREAS.
   b. RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKING MATERIALS, RESET TREES OR PALMS TO PROPER GRADE ELEVATION AND VERTICAL POSITION.
   c. LITTER PICKUP AND REMOVAL.
   d. TREAT INSECT AND DISEASE ISSUES IN ORDER TO PROMOTE HEALTHY PLANT GROWTH AND BY UTILIZYING INTEGRATED PEST MANAGEMENT, BEST MANAGEMENT PRACTICES AS APPROVED BY THE OWNER'S REPRESENTATIVE.
   e. MAINTAIN ALL IRRIGATION SYSTEM COMPONENTS IN A FULLY OPERABLE CONDITION. CHECK FOR LINE BREAKS AND LEAKS, CLEAN FILTERS AND BUBBLER SCREENS OF DEBRIS AND CHECK FOR PROPER WATER DISTRIBUTION.
   f. PROVIDE REPORTS TO OWNER'S REPRESENTATIVE DETAILING MAINTENANCE WORK COMPLETED AND OTHER PERTINENT INFORMATION FOLLOWING EACH SITE VISIT.
   g. ROUTINE MOWING OF MEDIANS AND ROADSIDES, UNLESS NOTED OTHERWISE.
   h. EDGING BED LINES AND BACK-OF-CURBS/EDGE OF PAVEMENT.
   i. SOIL TESTING.
   j. REMULCHING.
   k. PLANT REPLACEMENTS.

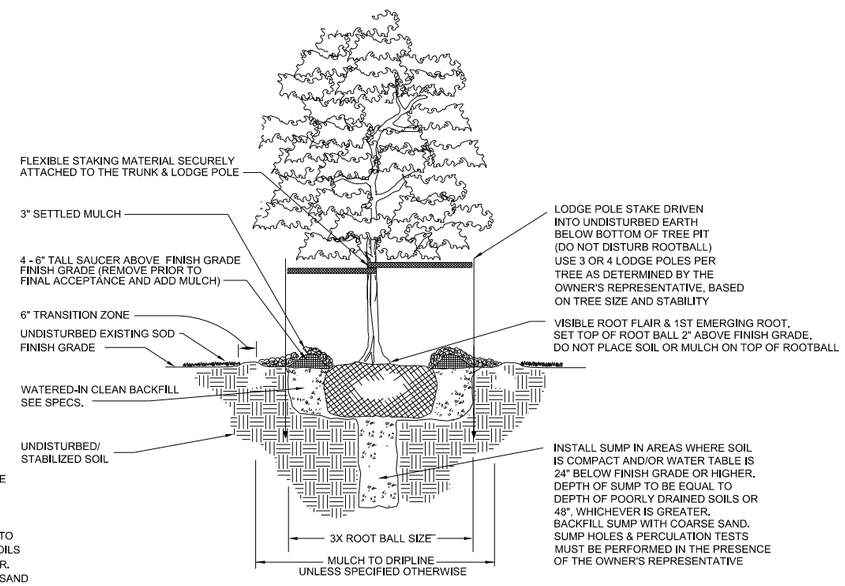


SABAL PALM PLANTING DETAIL

N.T.S.

TREE & PALM PLANTING NOTES

1. PREPARE PLANTING HOLE TO ANSI 300 STANDARDS AND THESE DETAILS.
2. INSTALL TREE SUMP PER PLANTING DETAIL.
3. REMOVE EXCESS SOIL FROM TOP OF ROOTBALL, EXPOSING ROOT FLARE AND UPPER MOST ROOTS.
4. PLACE ROOTBALL IN THE HOLE AND STRAIGHTEN PLANT, INSURING THE ROOT FLARE AND TOP ROOT OF THE ROOTBALL IS 2" ABOVE FINISHED GRADE.
5. BALLED AND BURLAPPED MATERIAL:
   a. REMOVE BURLAP AND TWINE/ROPE FROM TRUNK AND TOP OF ROOTBALL.
   b. GENTLY REMOVE ALL NON-BIODEGRADABLE MATERIAL FROM THE ROOTBALL AND PLANT.
   c. WIRE BASKETS: GENTLY BEND DOWN OR REMOVE WIRE FROM TOP OF ROOTBALL AND WHERE IT IS BELOW FINISH GRADE.
6. CONTAINER MATERIAL:
   a. MAKE 3 TO 6 VERTICAL SLICES TO THE INSIDE OF THE ROOTBALL. MAKE SLICES PARALLEL TO THE SIDES OF THE ROOTBALL, 1"-2" FROM THE EDGE AND COMPLETELY AROUND THE PERIMETER OF THE ROOTBALL.
7. BACKFILL 25% OF THE HOLE DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE PLANT IN A VERTICAL POSITION.
8. BACKFILL AN ADDITIONAL 25% OF THE HOLE DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE PLANT IN A VERTICAL POSITION.
9. BACKFILL AN ADDITIONAL 25% OF THE HOLE DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE PLANT IN A VERTICAL POSITION.
10. BACKFILL THE REST OF THE HOLE TO THE TOP OF THE ROOTBALL AND THOROUGHLY WATER IN, MAINTAINING THE PLANT IN A VERTICAL POSITION.
11. ADD 3" OF THE SPECIFIED MULCH FROM THE PERIMETER OF THE ROOTBALL TO THE DRIPLINE, CURB, BED DEMARCATION LINE OR AS NOTED ON THE PLANS.
12. ANY DEVIATION FROM THE ABOVE PROCESS OR IMPROPER HANDLING WILL NOT BE CONSIDERED AS INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF WORK.
13. ONLY PLANTS WITH PROPERLY PRUNED ROOT SYSTEMS WILL BE ACCEPTED.
14. BALLED AND BURLAPPED TREES MUST HAVE THEIR CANOPY PROPERLY HARDENED-OFF FOR ACCEPTANCE.



SINGLE TRUNK TREE PLANTING DETAIL

N.T.S.

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DEPARTMENT of TRANSPORTATION

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LANDSCAPE PLANS
HOMESTEAD ROAD

LANDSCAPE NOTES / DETAILS

SHEET NO. LD-9

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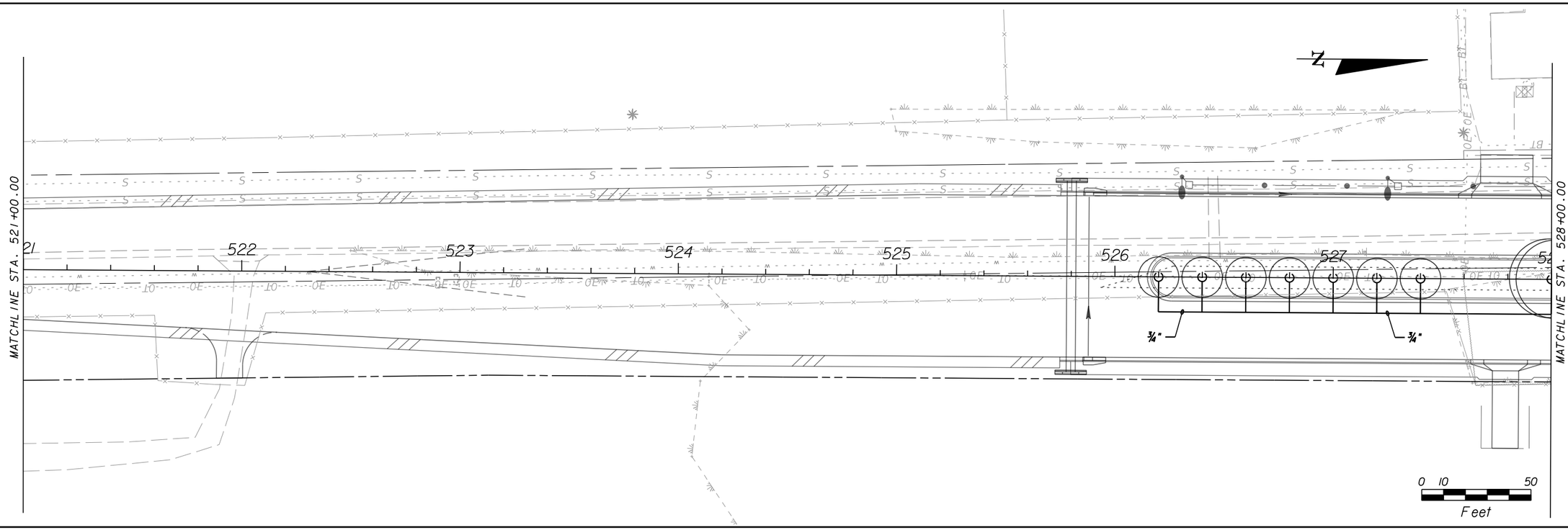

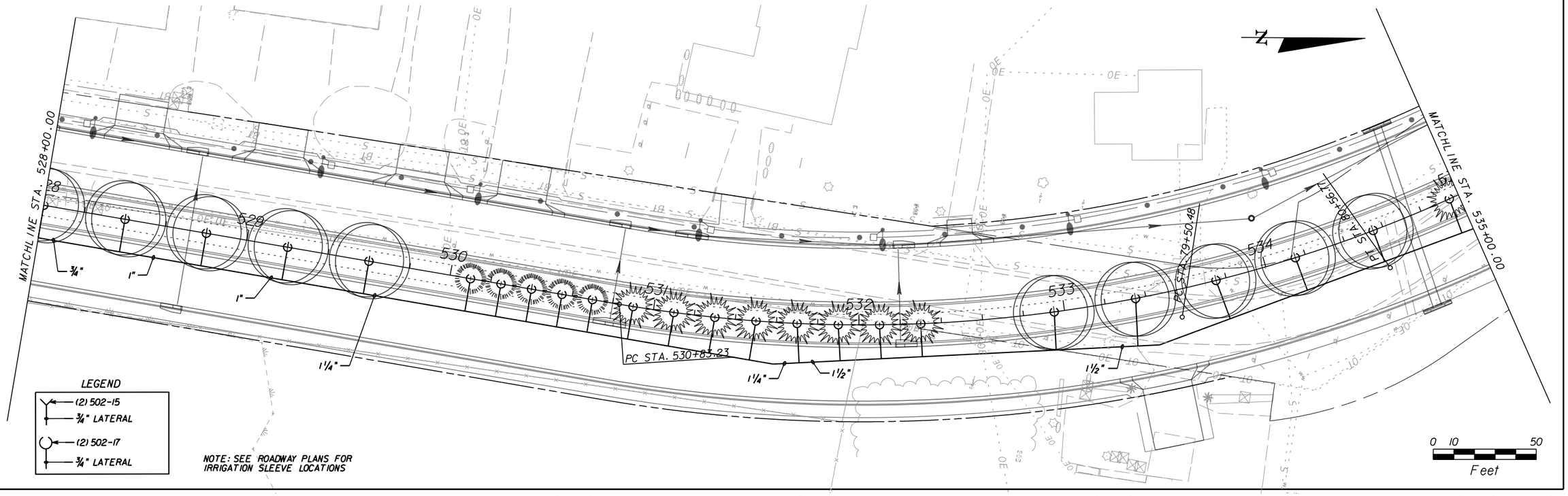

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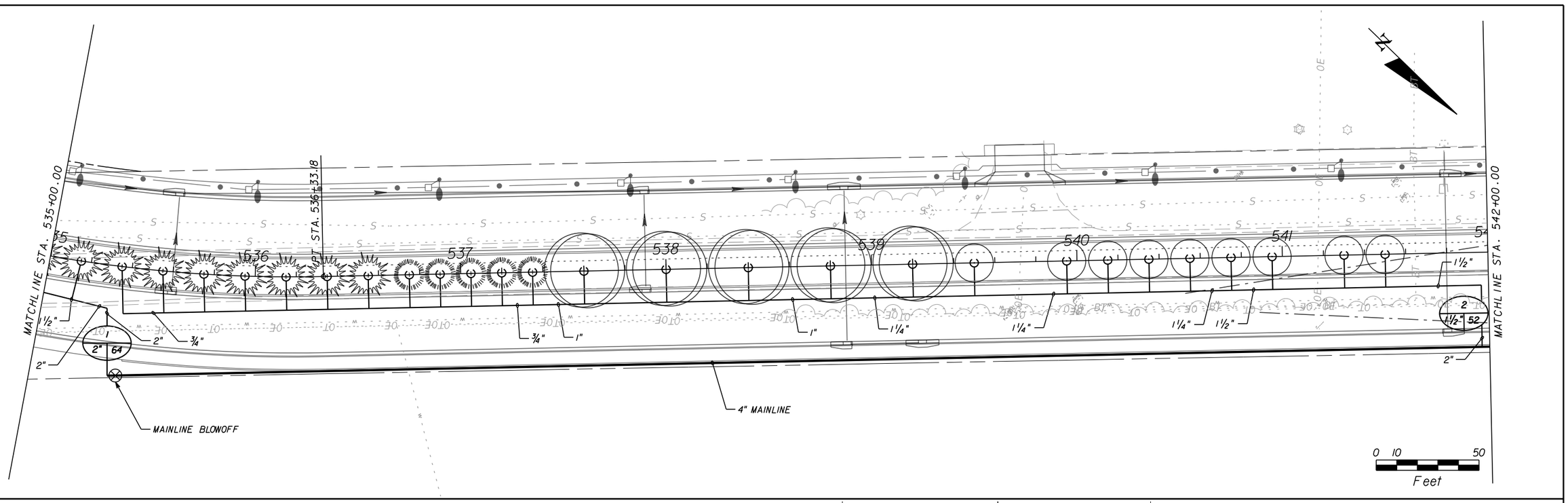
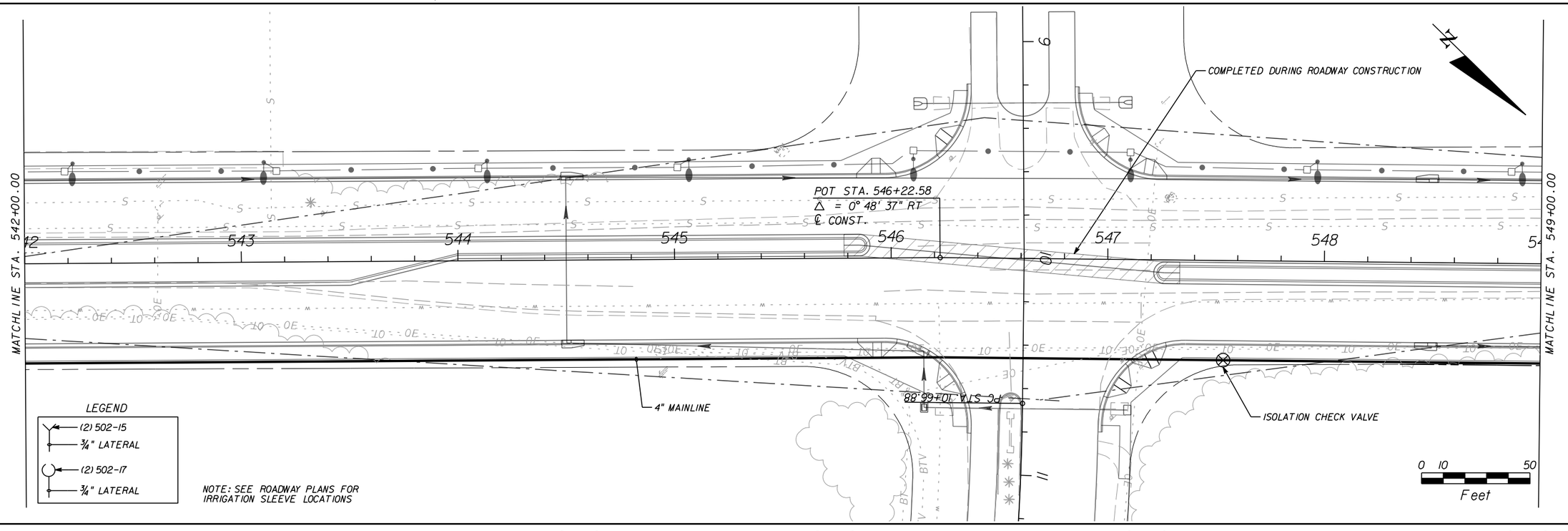
IRRIGATION PLANS
HOMESTEAD ROAD

SHEET NO. LD-10





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IRRIGATION PLANS HOMESTEAD ROAD

SHEET NO. LD-11

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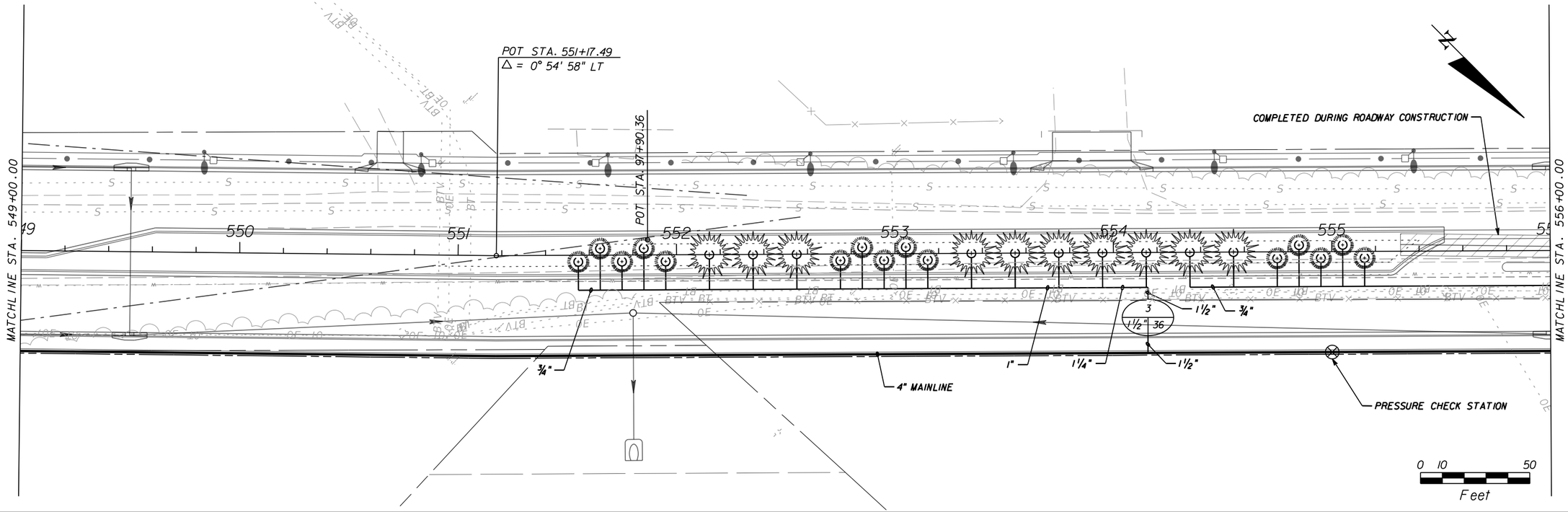

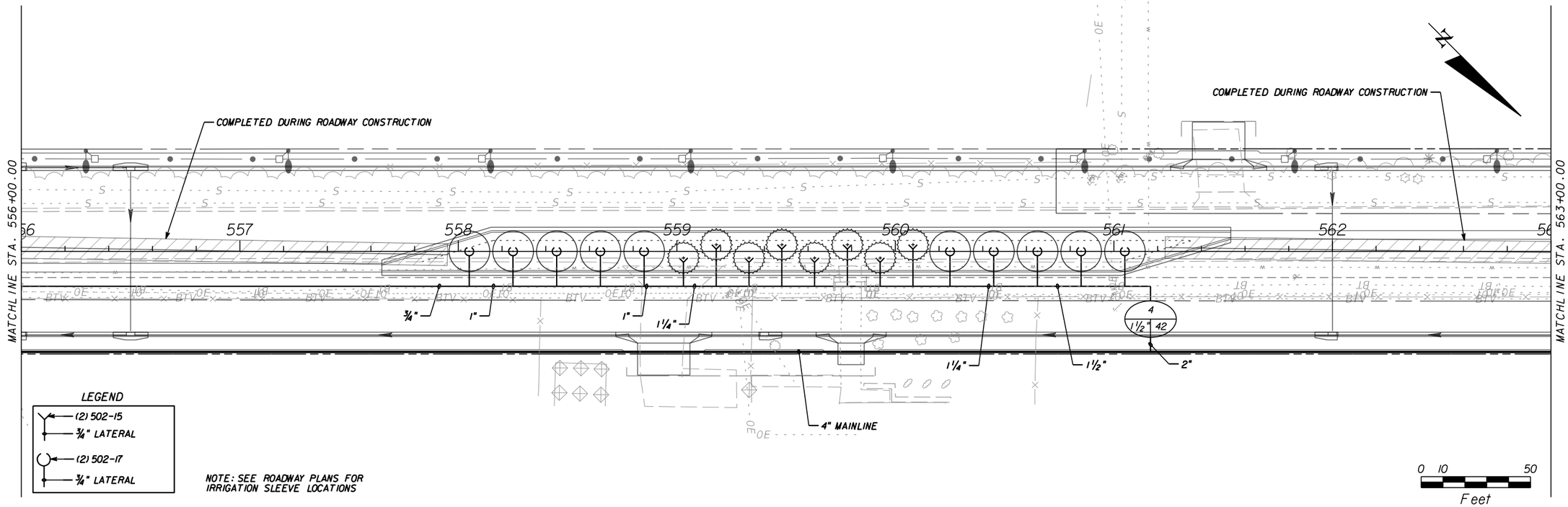

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IRRIGATION PLANS HOMESTEAD ROAD

SHEET NO. LD-12

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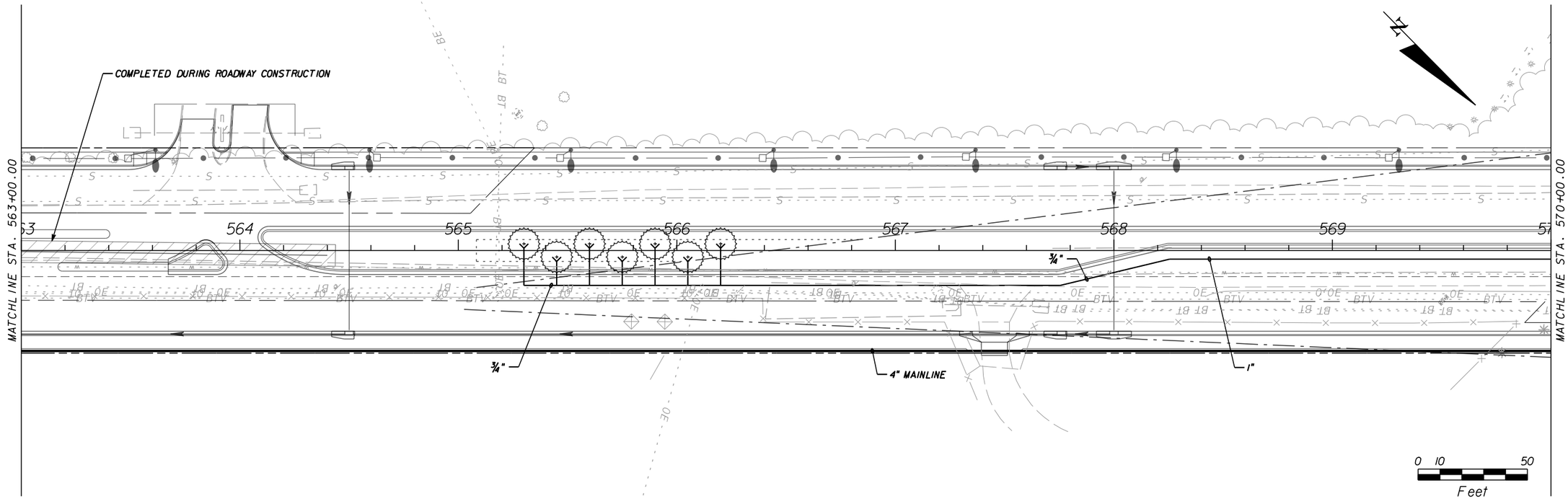

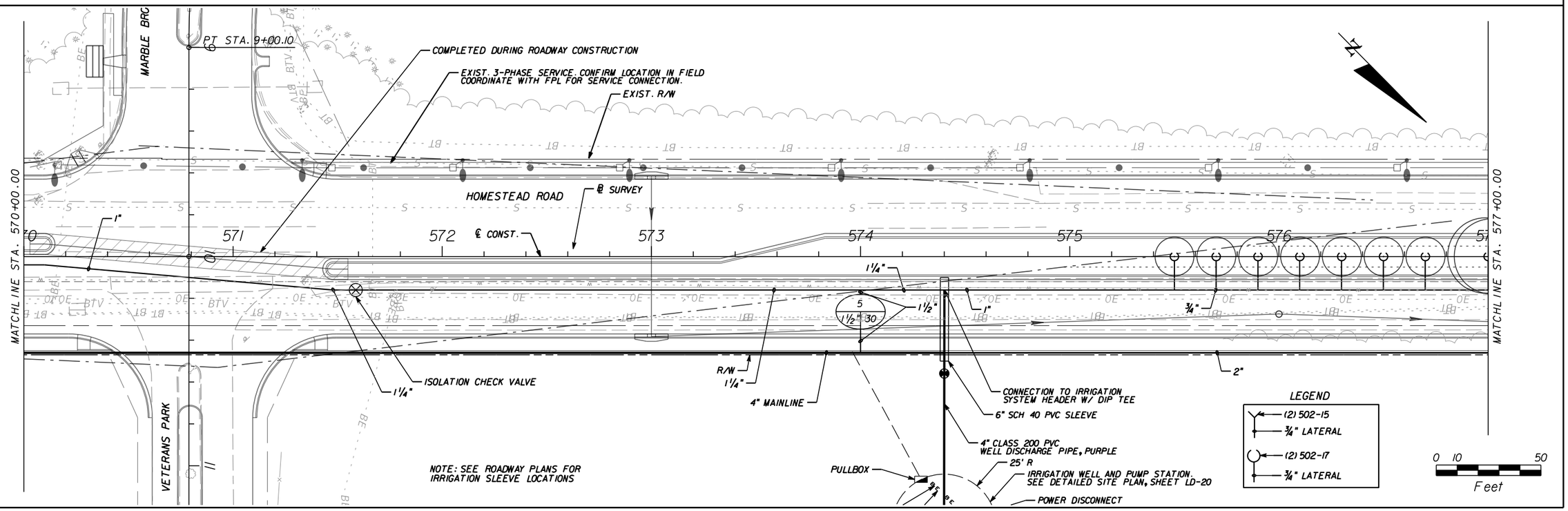

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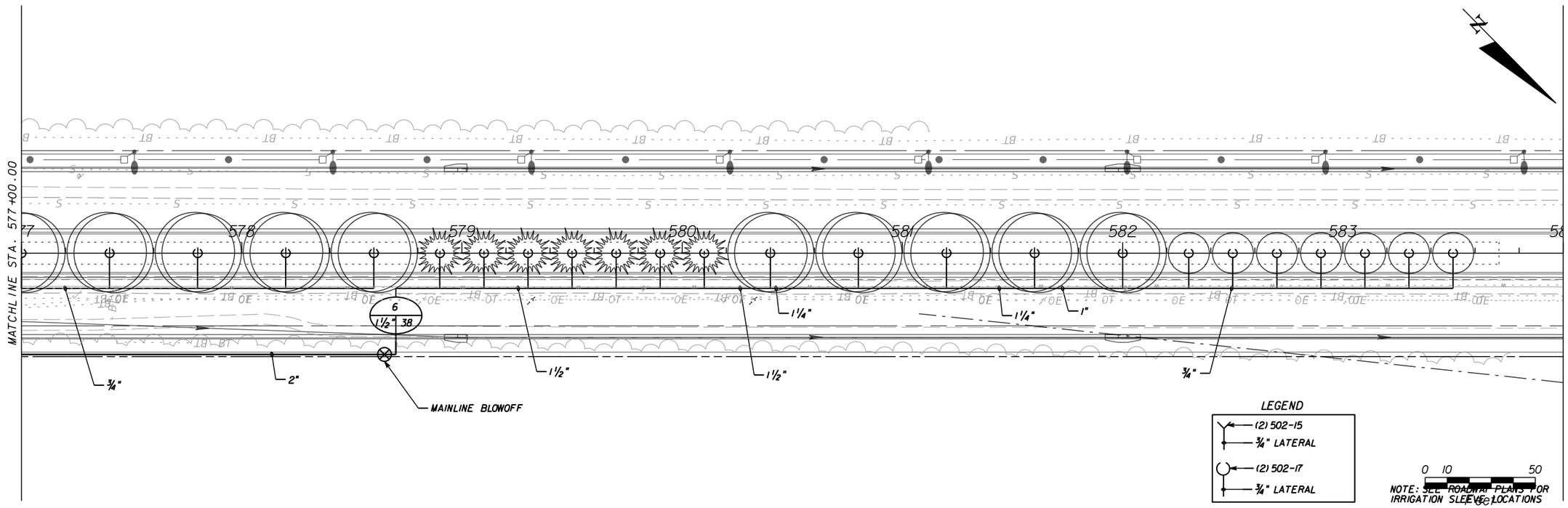
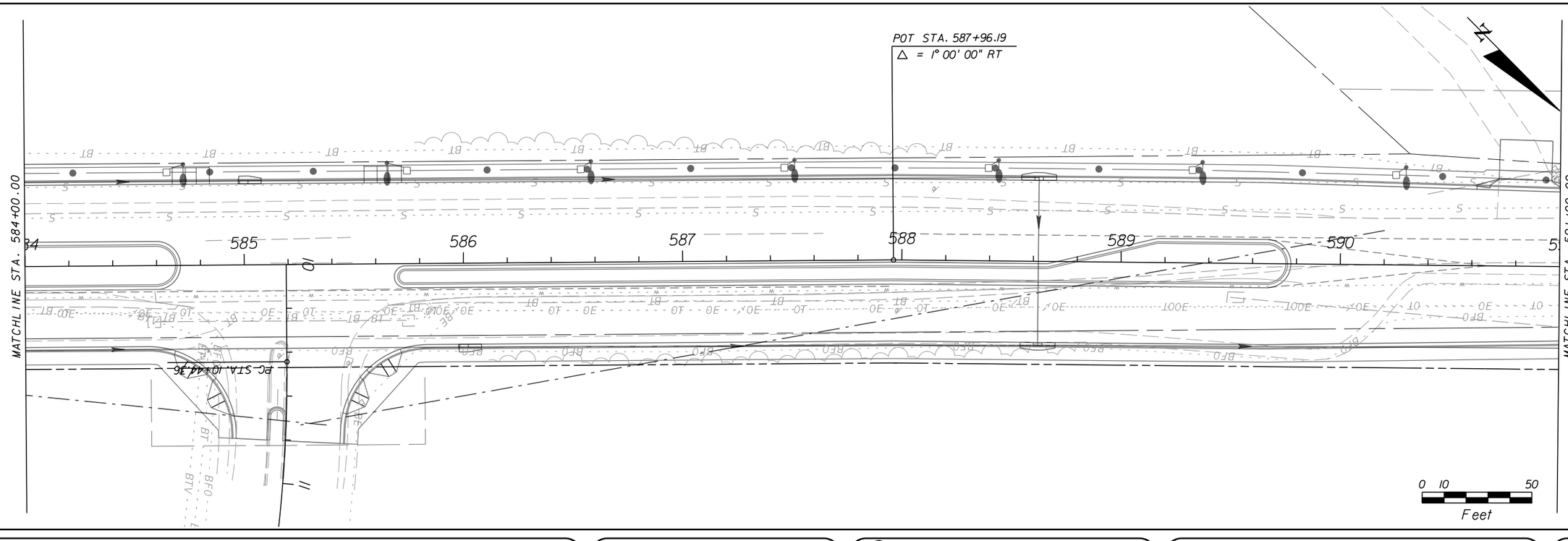
IRRIGATION PLANS HOMESTEAD ROAD

SHEET NO. LD-13





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IRRIGATION PLANS
HOMESTEAD ROAD

SHEET NO.
LD-14

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IRRIGATION NOTES:

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ANY AND ALL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT GIVEN TO THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.

2. IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL PREVAILING LOCAL CODES, ORDINANCES, AND REGULATIONS. CONTRACTORS ARE ADVISED TO REFER TO THE PROJECT MANUAL SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND "PROJECT REQUIREMENTS".

3. CHECK AND VERIFY ALL SITE CONDITIONS, INCLUDING SERVICE UTILITY LOCATIONS, PRIOR TO TRENCHING OR DIGGING. COORDINATE ALL IRRIGATION SYSTEM CONSTRUCTION WITH EXISTING AND/OR NEW PLANTINGS TO AVOID CONFLICT OR INTERFERENCE WITH LOCATION OF PIPING, SLEEVING, CABLES, AND SERVICE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS. ALL COMPONENTS THAT ARE NOT CONTAINED WITHIN THE SPECIFIC AREAS SHOWN OR CALLED OUT ON THE DRAWINGS WILL NOT BE ACCEPTED. ALL PIPING AND OTHER COMPONENTS ARE TO REMAIN WITHIN THE PROPERTY OF THE OWNER.

4. WHERE EXISTING OR NEW TREES, LIGHT STANDARDS, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION. OWNER'S REPRESENTATIVE SHALL APPROVE WHETHER OBSTRUCTION OCCURS OR NOT.

5. COMPONENT SPACINGS ARE MAXIMUM. DO NOT EXCEED SPACINGS SHOWN OR NOTED ON THE PLANS. COMPONENT SPACINGS MAY BE ADJUSTED TO ACCOMMODATE CHANGES IN TERRAIN AND PLANTING LAYOUT AS LONG AS THE MODIFIED SPACINGS DO NOT EXCEED THE SPACINGS SHOWN IN THE PLANS. UNLESS SHOWN OTHERWISE, CONTRACTOR SHALL PROVIDE 100% COVERAGE.

6. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS DETAILED ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS/INSTRUCTIONS RECOMMENDED BY THEIR MANUFACTURER.

7. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS, CONTROLLER AND OTHER DEVICES TO OBTAIN SPECIFIED OPERATING PARAMETERS, INCLUDING COVERAGE, OPERATING PRESSURE, FLOW RATES AND OPERATION TIME, AS INDICATED ON THE DRAWINGS AND IN THE IRRIGATION SYSTEM SPECIFICATIONS.

8. CONTRACTOR TO PROVIDE INSTALLATION SHOP DRAWINGS AND MANUFACTURER PRODUCT INFORMATION FOR ALL IRRIGATION COMPONENTS. ALL INSTALLATIONS SHALL BE AS RECOMENDED BY MANUFACTURERS. THE QUANTITIES SHOWN IN THE LEGENDS AND SYMBOL SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

9. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN, DEBRIS-FREE MATERIALS. CLEAN SAND SHALL BE USED FOR BEDDING MATERIAL IF PARENT SOIL CANNOT BE ADEQUATELY RID OF ROCK AND OTHER EXTRANEOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.

10. ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMENDED BY THE MANUFACTURER.

11. CONTRACTOR TO LABEL/NUMBER ALL ZONE VALVE COVERS WITH CORRESPONDING CONTROLLER ZONE NUMBER AND ISOLATION VALVE BOX COVERS WITH RECORD DRAWING NUMBERS. LETTERING MIN. SIZE 1". PROVIDE TAGS TO ALL VALVES AS SHOWN PER DETAILS.

12. CONTRACTOR TO PLACE TREE BUBBLERS AT OUTER EDGE OF ROOT BALL, NOT OUTER EDGE OF HOLE.

13. ALL PIPING INCLUDING MAINLINES AND LATERALS SHALL BE COLOR CODED (PANTONE PURPLE 522C) FOR FUTURE CONVERSION OF THE SYSTEM TO REUSE WATER PER COUNTY ORDINANCES AND STATE STATUTES. THE IRRIGATION SYSTEM COMPONENTS SHALL BE COMPATIBLE FOR USE WITH REUSE WATER AND FLORIDA ADMINISTRATIVE CODE 62-610 REUSE OF RECLAIMED WATER AND LAND APPLICATION. ALL VALVES, VALVE BOX COVERS, AND OTHER APPLICABLE EQUIPMENT SHALL BE COLOR CODED PANTONE PURPLE 522C (EXCEPT FOR SCH. 40 DRIPLINE HEADER/EXHAUST PIPE).

14. THE TWO-WIRE PATH SHALL BE HUNTER ID2 WIRE OR APPROVED EQUAL. ALL WIRE PATHS THAT GO TO THE NORTH OR WEST OF THE CONTROLLER SHALL BE ID2-BLU (BLUE). ALL WIRE PATHS THAT GO TO THE SOUTH OR EAST OF THE CONTROLLER SHALL BE ID2-ORG (ORANGE).

15. ALL DRIP IRRIGATION CONTROL VALVE ASSEMBLIES WILL HAVE A RAINBIRD PESB-R ELECTRIC SOLENOID ZONE CONTROL VALVE, PESB-R SERIES WITH PURPLE HANDLE, SIZED PER PLAN. DRIP ZONES SHALL ALSO HAVE A NETAFIM DISC FILTER AND PRESSURE REDUCING VALVE.

16. ELECTRICAL CONNECTIONS: COUNTY WILL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTIONS TO THE ELECTRICAL SUPPLY. THE ELECTRICAL CONNECTION FOR EACH PUMP STATION WILL BE WITHIN 25' OF THE DESIGNATED WELL/PUMP LOCATION(S) AS SHOWN ON THE IRRIGATION PLANS. THE CONTRACTOR WILL BE REPONSIBLE FOR MAKING ALL PROJECT RELATED ELECTRICAL CONNECTIONS BEYOND THIS POINT FOR THE PUMP STATION AND IRRIGATION SYSTEM EQUIPMENT.

17. THE COUNTY WILL PROVIDE THE IRRIGATION WELL(S) WITHIN 25' OF WHERE THEY ARE SHOWN ON THE PLANS. THE WELLS WILL BE CAPPED. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE CONCRETE PADS AND PUMP STATIONS.

18. ALL CONNECTIONS TO THE IRRIGATION MAINLINE (2 1/2" OR LARGER) SHALL BE ACCOMPLISHED VIA THE USE OF DUCTILE IRON SERVICE TEES. ALL CHANGES OF DIRECTION SHALL BE ACCOMPLISHED VIA THE USE OF 45 DEGREE ELBOWS W/ PROPER THRUST BLOCKING.

19. IRRIGATION DRAWINGS ARE SCHEMATIC. SOME COMPONENTS ARE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. KEEP ALL WORK WITHIN APPROPRIATE BOUNDARIES.

20. ALL VALVES (SOLENOID, GATE, ISOLATION, QUICK COUPLER, AIR RELIEF AND FLUSH), SURGE PROTECTORS AND FILTERS SHALL BE LOCATED WITHIN THE SPECIFIED VALVE BOXES AS SHOWN ON THE VALVE BOX SIZING TABLE.

21. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAINLINE AND PUMP STATION SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT MANAGER. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS - CONTRACTOR SHALL VERIFY THEIR LOCATION.

22. ALL IRRIGATION LINES UNDER PAVEMENT SHALL BE INSTALLED WITHIN HDPE SDR 11 OR EXISTING SCH 40 PVC SLEEVES AS NOTED. WHERE ELECTRIC CONTROL VALVE WIRES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER SCH 40 PVC CONDUIT.

23. THE IRRIGATION CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR FOR ALL SLEEVING.

24. ALL BUBBLERS SHALL BE PLACED ON THE OUTER EDGE OF THE ROOT BALL.

25. LOCATE ALL VALVES IN PLANTING BEDS OR MULCHED AREAS WITH A MINIMUM OFFSET OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT. VALVES LOCATED IN MEDIANS SHALL BE INSTALLED AS CLOSE TO THE CENTER AS POSSIBLE.

26. ALL UNSIZED PIPE SHALL BE 3/4".

IRRIGATION NOTES (CONT.):

27. EACH TREE AND PALM SHALL HAVE TWO (2) OR THREE (3) PRESSURE COMPENSATING FLOOD BUBBLERS (AS SHOWN ON THE PLANS). EACH BUBBLER SHALL BE ON A MINIMUM 5'-0" LENGTH OF FUNNY PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLERS ON THE UPHILL SIDE OF TREES ON ALL SLOPES. LOCATE BUBBLERS IN THE CENTER OF THE ROOTBALL AND EQUAL DISTANCE APART.

28. CONTROL WIRING FOR VALVES SHALL BE LAID IN TRENCHES BENEATH MAINLINE.

29. DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM, VALVE DECODERS SHALL BE PROGRAMMED TO THE CONTROLLER AS PER THE IRRIGATION SCHEDULE AND PLANS.

30. ONE (1) FOOT BELOW SITE FINISH GRADE, THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED DETECTABLE METAL MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: WATER LINE BURIED BELOW". TAPE SHALL BE MANUFACTURED BY LINEGUARD, INC., OR APPROVED EQUAL.

31. IRRIGATION LATERAL LINES TO BE BURIED AT A DEPTH OF 24" UNLESS NOTED OTHERWISE.

32. IRRIGATION MAINLINES TO BE BURIED AT A DEPTH OF 36" UNLESS NOTED OTHERWISE.

33. ALL COMPONENTS INSTALLED BY THE IRRIGATION CONTRACTOR, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE EXACT LOCATION AND DEPTH BELOW FINISH GRADE OF ALL COMPONENTS SHALL BE NOTED ON THE "AS-BUILT" DRAWINGS.

34. CAP SLEEVES UNTIL PIPE IS INSTALLED. SEAL EACH END OF SLEEVES WITH FOAM-A-SEAL AFTER PIPE AND WIRE IS INSTALLED.

35. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE LANDSCAPE SUPERVISOR. WORK IN THE RIGHT OF WAY SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.

36. LEE COUNTY WILL PROVIDE AND COORDINATE ALL WORK INVOLVING WELL DRILLING PERMITTING AND ELECTRICAL POINTS OF CONNECTION.

37. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY FLOW OF VEHICULAR TRAFFIC AND COMPLETION OF ALL WORK ON THE SITE.

38. RESTORE ALL DISTURBED AREAS SEED AREAS THAT ARE LESS THAN 12" WIDE WITH ARGENTINE BAHIA GRASS SEED AT THE RATE OF 10 LBS. PER 100 SQUARE FEET. SOD AREAS 12" OR WIDER WITH ARGENTINE BAHIA GRASS SOD. PROVIDE A SMOOTH TRANSITION BETWEEN THE REPAIRED DISTURBED AREAS AND THE UNDISTURBED AREAS.

CDR VALVE BOX NUMBER A10-1015-12	CDR VALVE BOX NUMBER A10-1118-12	CDR VALVE BOX NUMBER A10-1118-18
GROUND RODS & PLATES	SOLENOID VALVE WITH GATE ISOLATION VALVE	SOLENOID VALVE & PRESSURE REDUCING
QUICK COUPLING VALVE		VALVE
MAINLINE GATE/ISOLATION VALVE		
MAINLINE AIR RELIEF VALVE		
PRESSURE GAUGE CHECK POINTS		
CDR VALVE BOX NUMBER A10-1324-12	CDR VALVE BOX NUMBER WA00-1132-12	CDR VALVE BOX NUMBER A10-1324-18
WHEN A JUMBO BOX IS REQUIRED	GATE/ISOLATION VALVE	GATE/ISOLATION VALVE & LARGE DISC
	SMALL DISC FILTER	FILTER (1 1/2" OR 2" SUPER FILTER), W/
	SOLENOID VALVE	SOLENOID VALVE & PRESSURE REDUCING
	PRESSURE REDUCING VALVE	VALVE. *INSTALL SOLENOID VALVE AND
		PRESSURE REDUCING VALVE IN MODEL
		A10-1118-18 VALVE BOX
CARSON VALVE BOX NUMBER 910 - AIR RELIEF VALVE, LINE FLUSHING VALVE		

NOTES:
1. CDR VALVE BOXES SHALL BE POLYMER/CONCRETE WITH PURPLE LIDS STAMPED LEE COUNTY IRRIGATION.
2. CARSON VALVE BOXES SHALL BE CONSTRUCTION GRADE WITH PURPLE LIDS.
3. VALVE BOXES SHALL HAVE FILTER FABRIC SECURELY ATTACHED TO THE SIDES OF THE BOX AND HAVE 6" OF PEA GRAVEL ON TOP OF THE FILTER FABRIC INSIDE THE BOX.
4. PROVIDE A 2" MINIMUM AIR GAP BETWEEN THE TOP OF THE GRAVEL AND THE BOTTOM OF THE DEVICES, AND A 2" AIR GAP BETWEEN THE TOP OF THE DEVICES AND THE BOTTOM OF THE VALVE BOX COVER.
5. CONCRETE PAVERS OR BRICKS SHALL BE USED TO LEVEL AND SUPPORT THE VALVE BOX ON EACH SIDE.

VALVE BOX SIZING TABLE

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DEPARTMENT
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TRANSPORTATION
FORT MYERS, FLORIDA 33901

JOCAMPBE

IRRIGATION PLANS
HOMESTEAD ROAD

IRRIGATION NOTES

SHEET NO.
LD-15

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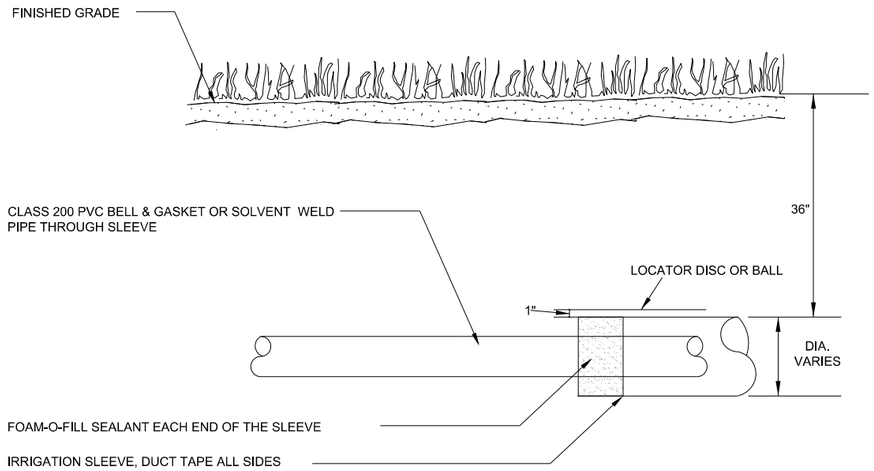

SLEEVES SHALL EXTEND 7' FROM EDGE OF PAVEMENT AT VEHICULAR USE PAVED SURFACES WITH NO CURBING, 4' FROM THE BACK-OF-CURB AT VEHICULAR PAVED SURFACES, 4' FROM EDGE OF SIDEWALK

NOTE: SEAL EACH END OF SLEEVES FOR CONTROL WIRES, ONCE CONTROL WIRES ARE IN PLACE

SLEEVE SEALING DETAIL

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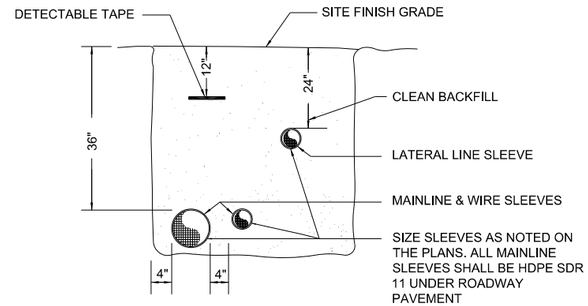

SET TOP OF WIRE & MAINLINE SLEEVES AT 36" & LATERAL LINE SLEEVES AT 24" BELOW FINISH GRADE AT SLEEVE LOCATION. BACKFILL TRENCH WITH CLEAN FILL MATERIAL FREE OF ORGANIC MATERIAL AND ROCK

EXTEND SLEEVES 36" BEYOND THE OUTSIDE EDGE OF PAVEMENT OR BACK OF CURB. CAP ALL ENDS

SLEEVE / TRENCH DETAIL

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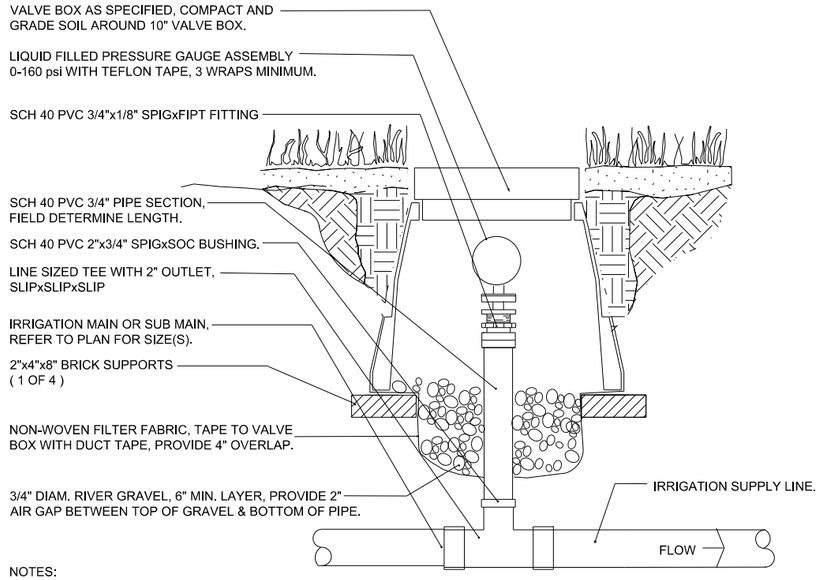

NOTES:
FOR MAIN LINES SMALLER THAN 2" REDUCE THE SIZE OF THE TEE, OUTLET & SPIGxSOC BUSHING SO THAT IT IS SIZED AS THE MAIN LINE. FOR MAIN LINES WITH BURIAL DEPTHS GREATER THAN 18", PROVIDE VALVE BOX EXTENSIONS AS NEEDED TO MEET THE SPECIFIED DEPTH.

PRESSURE CHECK STATION INSTALLATION DETAIL

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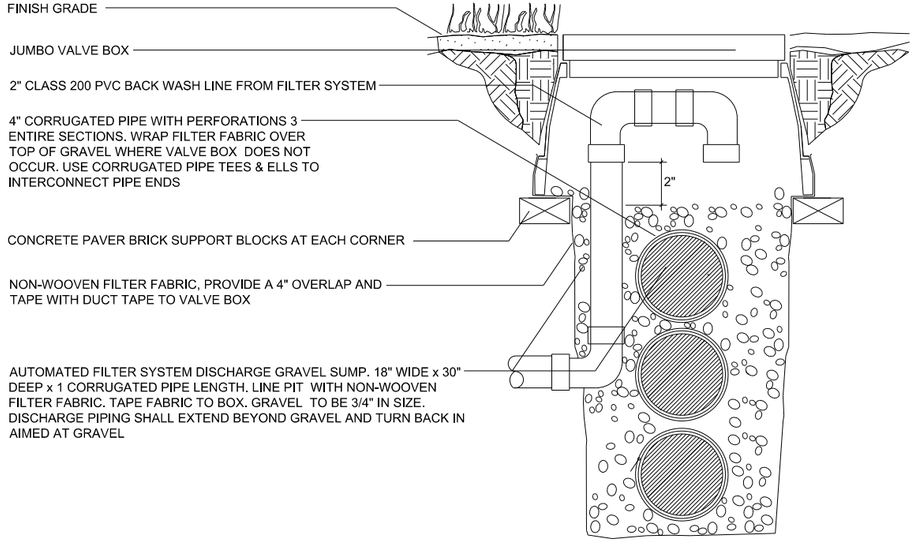

NOTES
SCHEDULE VALVE TO OPERATE FOR TEN MINUTES PER CYCLE AND WATER BUDGET DOWN TO 70% - 80%. ADJUST FLOW CONTROL TO AVOID BOX OVERFLOW. VALVE IS TO BE DESIGNATED TO A PROGRAM DIFFERENT THAN THE REMAINING VALVES IN THE SYSTEM.

FILTER UNIT SHALL BE INSTALLED WITHIN PUMP STATION. ALLOW FOR A 2" AIR GAP SHALL OCCUR AT THE BOTTOM OF THE DISCHARGE PIPE AND TOP OF GRAVEL WITHIN THE DISCHARGE SUMP (FOR MAINTENANCE EASE).

WELL PUMP STATION FILTER DISCHARGE GRAVEL SUMP INSTALLATION DETAIL

NTS

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FORT MYERS, FLORIDA 33901

JOCAMPBE

IRRIGATION PLANS
HOMESTEAD ROAD

IRRIGATION DETAILS

SHEET NO.
LD-16

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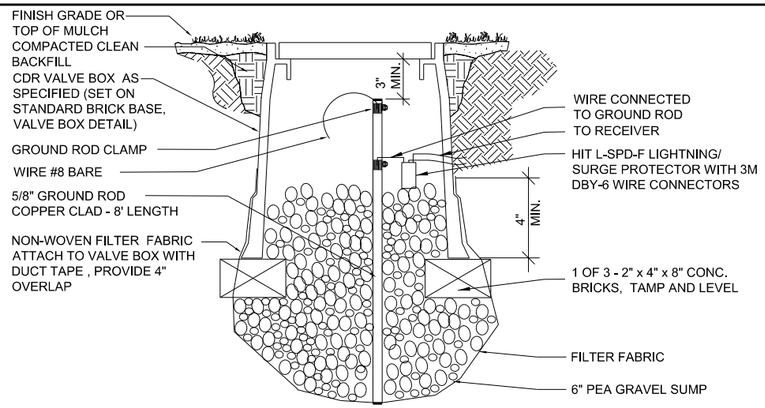
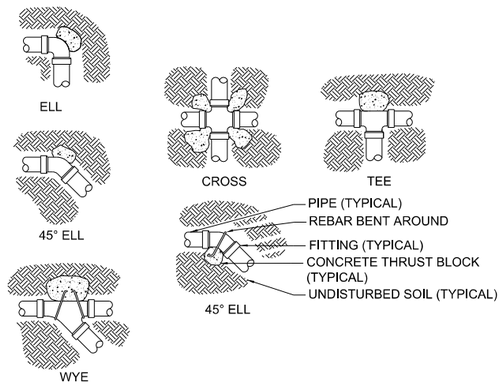


GROUND ROD AND SURGE PROTECTOR DETAIL

N.T.S.

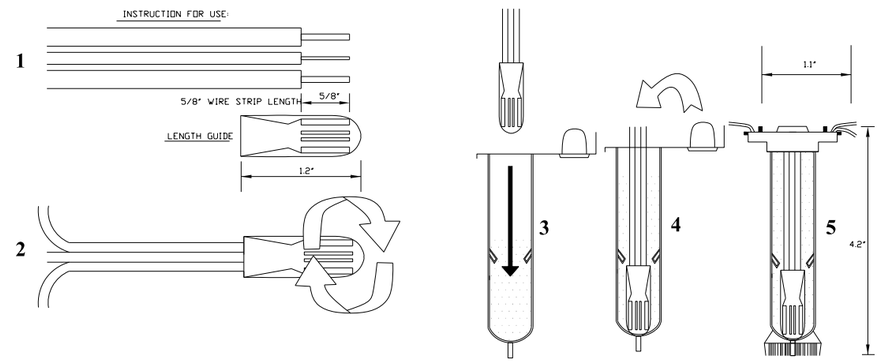
NOTES:
THE CONTRACTOR SHALL PROVIDE A SURGE PROTECTOR, COMPATABLE WITH THE PRODUCTS SPECIFIED AT EACH VALVE & VALVE BOX LOCATION. THE WIRES SHALL BE CONNECTED AT ANY POINT ALONG THE PATH WHERE A DECODER, CONTROLLER OR SURGE PROTECTOR IS ADDED, USING 3M DBY-6 WIRE CONNECTORS PER MANUFACTURER'S RECOMMENDATIONS



THRUST BLOCK REINFORCEMENT

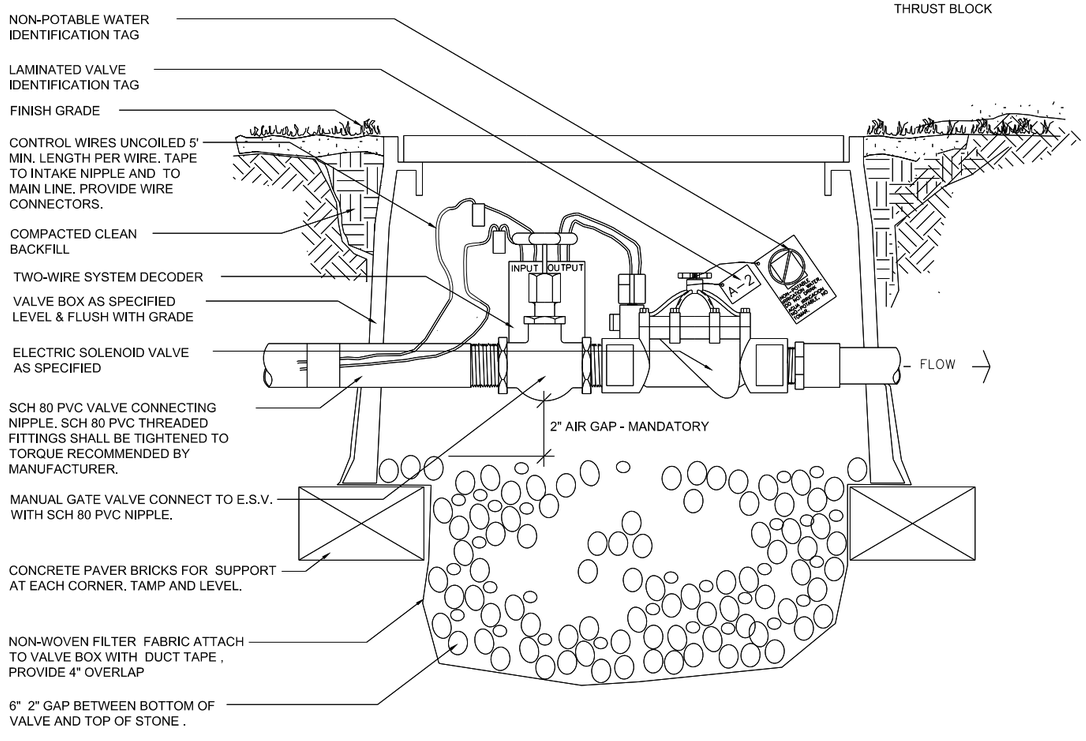
N.T.S.

NOTES:
1. SUPPLY LINES 2 1/2" IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS AS SPECIFIED HEREIN
2. ALL CONCRETE TO BE 3,000 PSI OR STRONGER
3. FOR 45°, 90° & TEES USE A MIN. OF 2 C.F. PER THRUST BLOCK.
4. FITTINGS TO BE WRAPPED IN VISQUEEN BEFORE POURING THE THRUST BLOCK



3M DBR-6 DIRECT BURY SPLICE KIT 600 VOLTS

N.T.S.

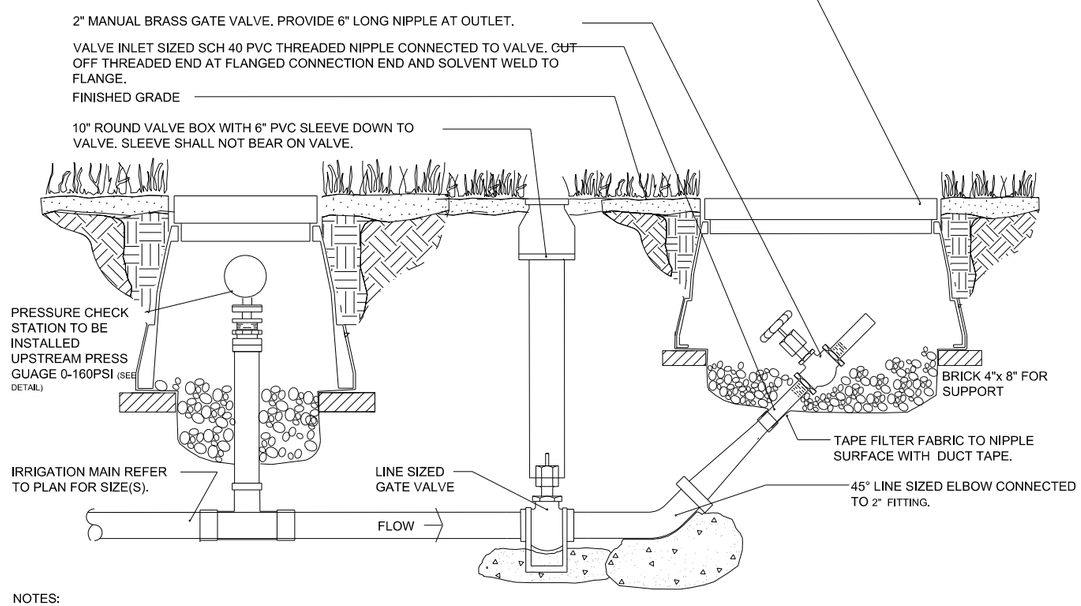


IRRIGATION CONTRACTOR SHALL FIELD DETERMINE NIPPLE LENTHS. MAINLINE OUTLET TEE, INTERCONNECTING NIPPLES AND ALL OTHER INTERCONNECTING FITTINGS SHALL BE SIZED TO THE VALVES INLET OPENINGS. COORDINATE WITH UTILITIES CONTRACTOR.

ELECTRIC SOLENOID VALVE WITH MANUAL GATE VALVE INSTALLATION DETAIL

N.T.S.

JUMBO VALVE BOX WITH LOCKABLE LID WITH 6" EXTENSION. SET ON BRICK SUPPORTS (4). PROVIDE NON-WOOVEN FILTER FABRIC WITH 4" LAYER OF 3/4" GRAVEL ON TOP OF FILTER FABRIC. TAPE FILTER FABRIC TO EXTERIOR OF VALVE BOX WITH DUCT TAPE, PROVIDE A 4" F.F. OVERLAP FROM BOTTOM OF BOX. BOX SHALL BE SET FLUSH AND LEVEL WITH GRADE.



NOTES:
ALL THREADED RODS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. OPEN AND CLOSE SLOWLY THE VALVES DURING FLUSHING. OPEN 2" VALVE FIRST, THEN OPEN LARGER VALVE. USE A MINIMUM TIME OF 30 SECONDS FOR OPENING OR CLOSING EACH VALVE UNDER PRESSURE.

IRRIGATION MAIN BLOW-OFF INSTALLATION DETAIL

N.T.S.

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DEPARTMENT of TRANSPORTATION

JOCAMPBE

IRRIGATION PLANS
HOMESTEAD ROAD

IRRIGATION DETAILS

SHEET NO.
LD-17

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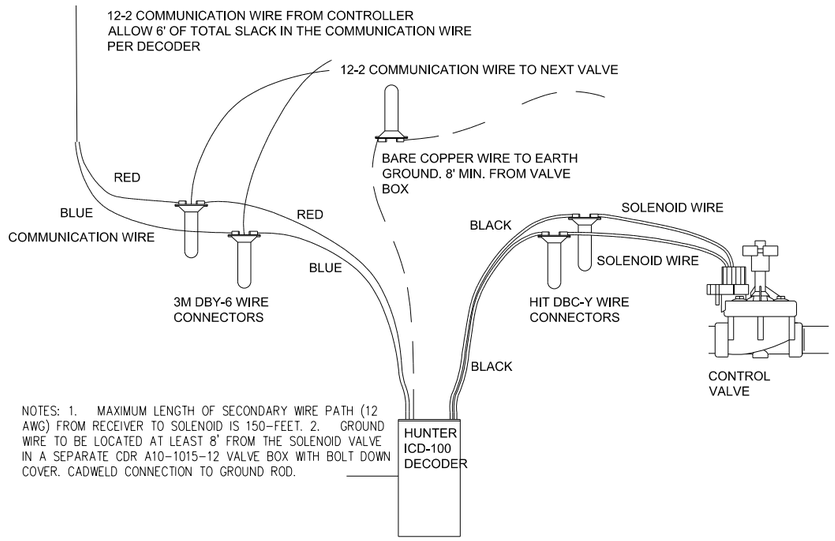

WIRING DIAGRAM HUNTER ICD-100 DECODER

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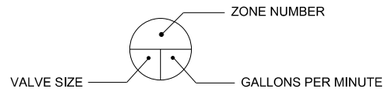

IRRIGATION VALVE KEY

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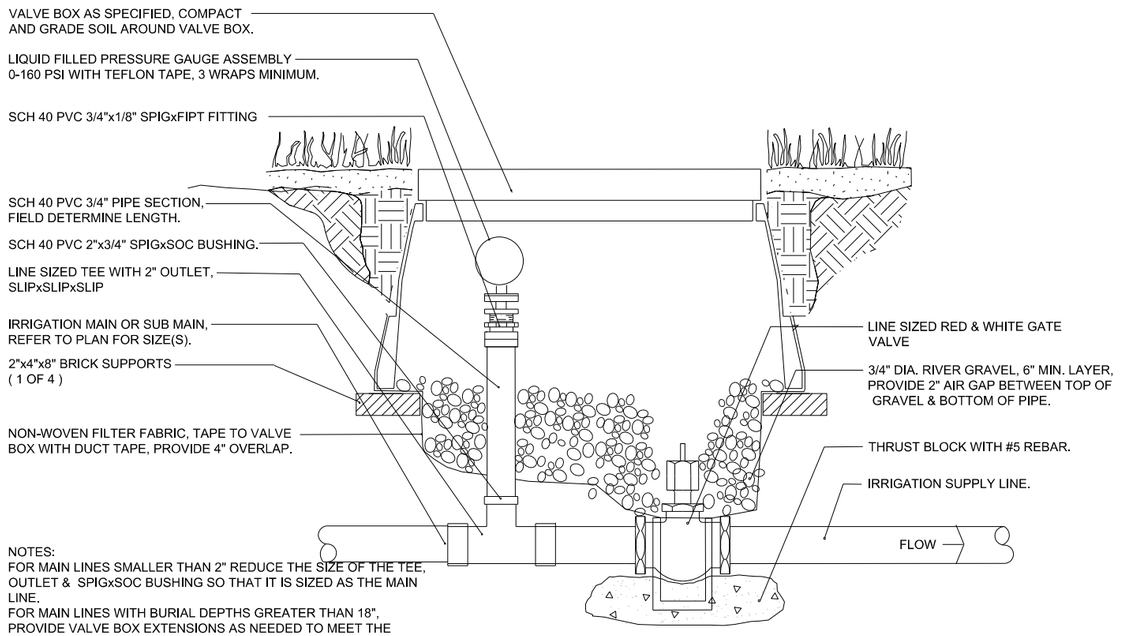

MAIN LINE MANUAL GATE VALVE AT POINT OF CONNECTION W/ PRESSURE CHECK STATION INSTALLATION DETAIL

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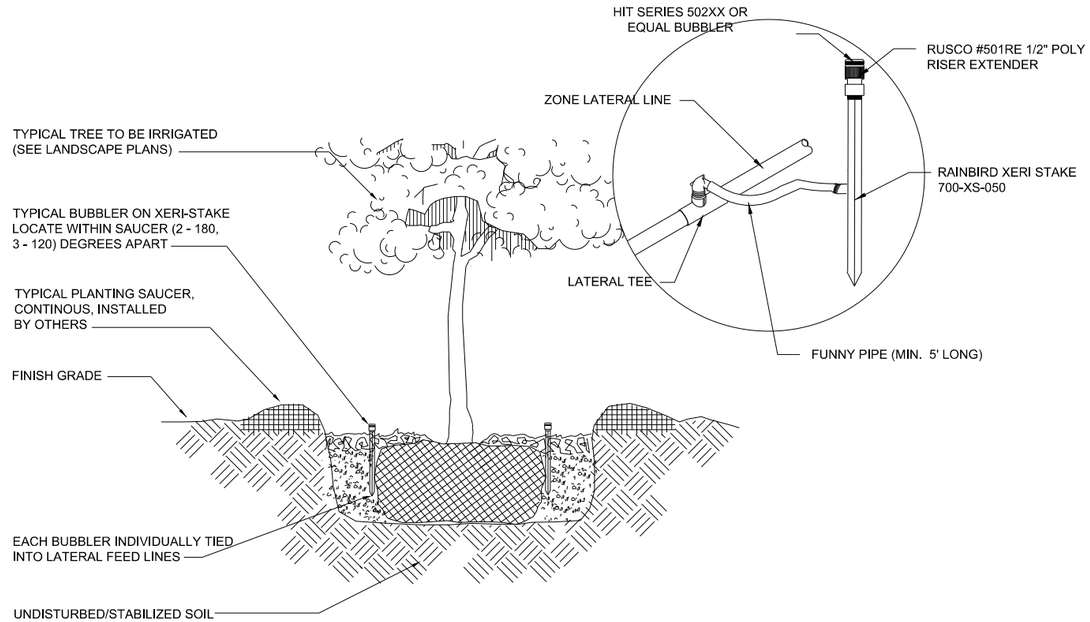

HIT BUBBLER APPLICATION

N.T.S.

NOTE:
BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES & ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER

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IRRIGATION PLANS
HOMESTEAD ROAD

IRRIGATION DETAILS

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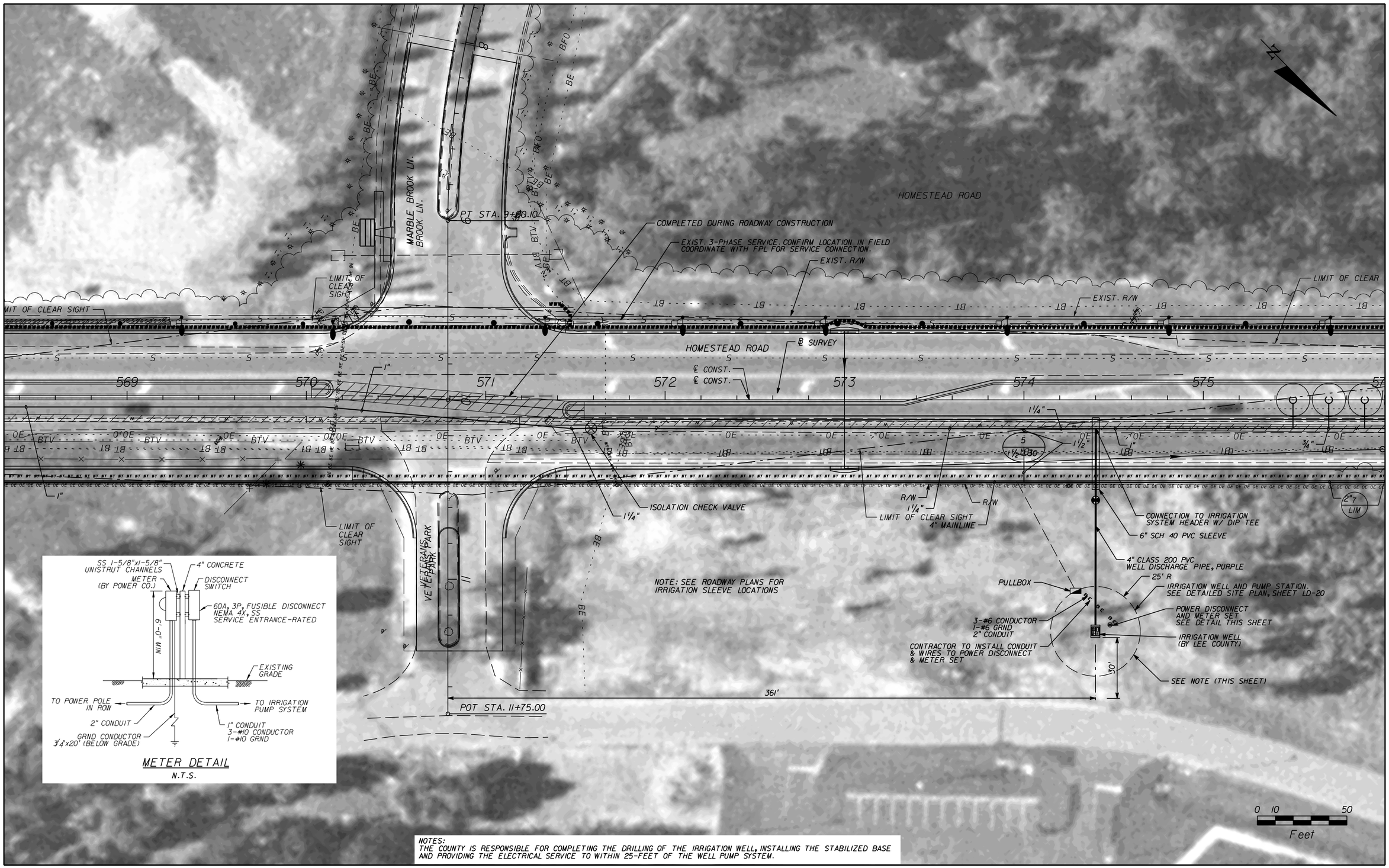

NOTES:
THE COUNTY IS RESPONSIBLE FOR COMPLETING THE DRILLING OF THE IRRIGATION WELL, INSTALLING THE STABILIZED BASE AND PROVIDING THE ELECTRICAL SERVICE TO WITHIN 25-FEET OF THE WELL PUMP SYSTEM.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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PUBLIC WORKS
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SOUTHWEST FLORIDA
1500 MONROE STREET FORT MYERS, FLORIDA 33901
(239) 479-8900 www.lee-county.com/publicworks/dotitle.htm
DEPARTMENT of TRANSPORTATION

JOCAMPBE

IRRIGATION WELL AND PUMP STATION HOMESTEAD ROAD

OVERALL SITE PLAN

SHEET NO. LD-19

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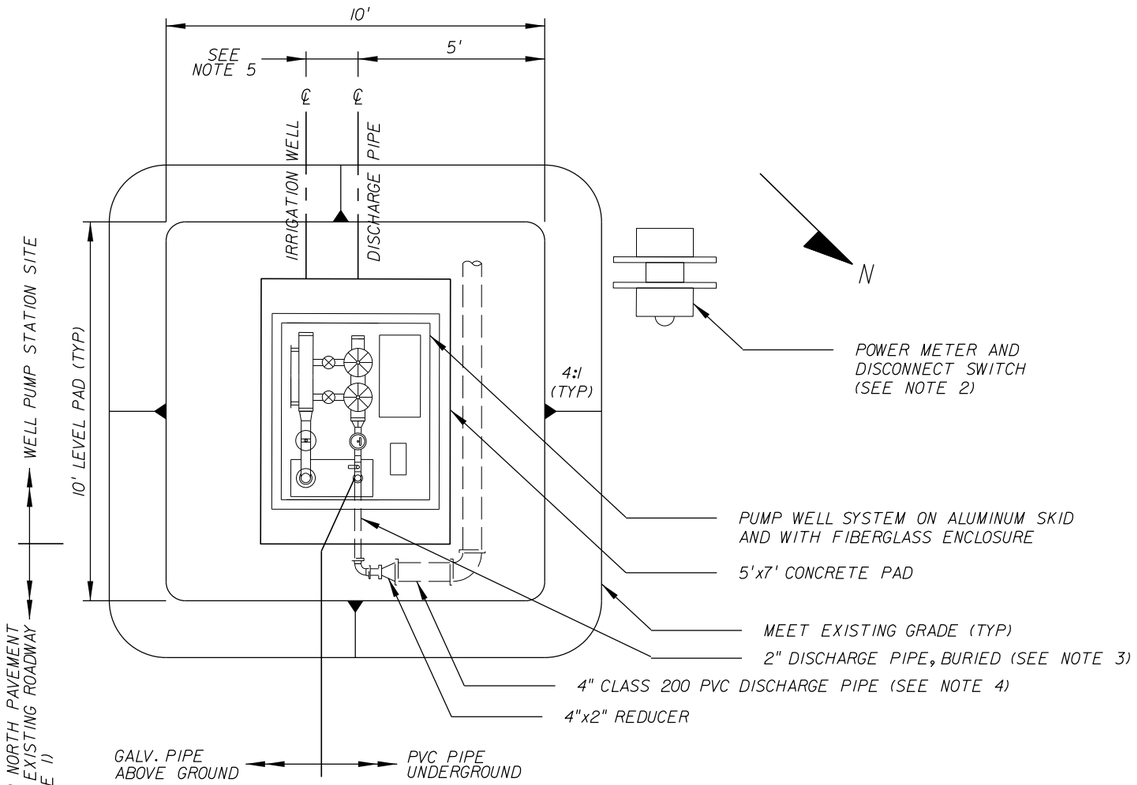

DETAILED SITE PLAN
N.T.S.

WELL PUMP STATION SITE - NOTES:

1. THE WELL AND PROPOSED PUMP STATION SITE CAN BE ACCESSED FROM THE EXISTING ROADWAY LOCATED TO THE SOUTH APPROXIMATELY 30 FEET. REFER TO THE OVERALL SITE PLAN, SHEET LD-19, FOR THE RELATIONSHIP OF THE WELL SITE, ACCESS ROADWAY, AND HOMESTEAD ROAD.
2. FOR POWER METER AND DISCONNECT SWITCH, REFER TO THE METER DETAIL ON SHEET LD-19.
3. THE 2-INCH DIAMETER WELL PUMP DISCHARGE ROUTING MAY BE ADJUSTED BY THE CONTRACTOR, UPON APPROVAL BY LEE COUNTY.
4. TRANSITION FROM 2-INCH PIPE TO 4-INCH PIPE FOR MAIN IRRIGATION SUPPLY TO HOMESTEAD ROAD IRRIGATION SYSTEM. MAIN IRRIGATION SUPPLY LINE SHALL BE INSTALLED USING PVC, CLASS 200. DISCHARGE PIPING SHALL BE INSTALLED AT A MINIMUM 3-FEET COVER FROM EXISTING GRADE.
5. DISTANCE/SEPARATION BETWEEN IRRIGATION WELL AND DISCHARGE PIPING IS DICTATED BY THE SIZE OF PUMP STATION SYSTEM AND ENCLOSURE SUPPLIED BY PUMP MANUFACTURER.
6. UPON COMPLETION OF THE WELL PUMP SYSTEM, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, MATERIALS, AND SUPPLIES FROM THE WORK SITE. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. ALL HOLES, EXCAVATIONS, AND RUTS WILL BE FILLED IN AND GRADED TO RESTORE ELEVATIONS AND GRADES THAT EXISTED PRIOR TO COMMENCEMENT OF THE WORK. AREAS COVERED WITH GRASS OR PLANT COVER PRIOR TO THE WORK SHALL BE SODDED IN CONFORMANCE WITH LEE COUNTY REQUIREMENTS TO RESTORE THE SITE TO ITS PREVIOUS CONDITION. FINAL ACCEPTANCE OF THE WORK SHALL NOT BE GRANTED UNTIL SITE RESTORATION IS COMPLETED AND APPROVED BY THE ENGINEER.

WELL PUMP STATION - SPECIFICATIONS:

1. SITE PREPARATION:
   A. THE LCDOT WILL PROVIDE A 10' SQUARE LEVEL AREA FOR THE SITE OF THE PUMP STATION STATION SYSTEM AT THE LOCATION INDICATED ON THE OVERALL SITE PLAN, SHEET LD-19.
   B. THE PUMP STATION MANUFACTURER SHALL INSTALL A CONCRETE PAD PRIOR TO SETTING THE PUMP STATION SYSTEM.
2. ELECTRICAL SUPPLY:
   A. COORDINATE WITH LCDOT. LCDOT WILL PROVIDE THE ELECTRICAL POWER SUPPLY (208V, 3 PHASE) FOR THE PUMP STATION SYSTEM. AN OPEN DELTA SERVICE IS NOT ALLOWABLE.
3. VARIABLE FREQUENCY DRIVE:
   A. YASKAWA IQ OR EQUIVALENT VFD WITH PRESSURE DEMAND, CAPABLE OF MULTIPLE PRESSURE OUTPUTS.
   B. DRIVE SHALL HAVE NUMEROUS OVERLOAD AND SAFETY FAULTS INCLUDING: PHASE LOSS, LOW/HIGH VOLTAGE, AND HIGH CURRENT, INTERNAL HEAT SINK OVERHEAT, GROUND FAULT, SHORT CIRCUIT FAULT, THE SYSTEM WILL SHUT OFF AND THE FAULT WILL APPEAR ON THE OPERATOR DISPLAY. ALL KEY PARAMETERS WILL ALSO BE RECORDED AT THE TIME OF FAULT AND THE LAST 10 FAULTS ARE STORED. FAULT CONDITIONS ARE DETECTED BY THE HUNTER ACC CONTROLLER AND ARE RESETABLE WITH THE IMMS SOFTWARE.
   C. HYDROMETER: NETAFIM NORMALLY CLOSED WITH A PHOTO DIODE OUTPUT THAT WILL CONNECT TO THE ACC CONTROLLER FOR FLOW DETECTION.
4. FILTER:
   A. NETAFIM DISC-KLEEN FILTERS WITH A MAXIMUM OPERATING PRESSURE OF 140 PSI WITH 120 MESH FILTERS.
5. CONTROLLER:
   A. HUNTER ACC-99
   B. THE IRRIGATION CONTROLLER SHALL BE CONNECTED TO THE HYDROMETER WITH A PHOTO DIODE DEVICE THAT PROVIDES A READING OF THE SYSTEM FLOW.
6. RAIN SENSOR:
   A. HUNTER RAIN CLICK, MOUNTED 8' ABOVE EXISTING GRADE ON ½" SCHEDULE 80 PIPE.
7. VALVE:
   A. 2" ISOLATION VALVE ON THE DISCHARGE PIPE FROM THE PUMP STATION.
8. ELECTRICAL CONTROL BOXES:
   A. UL APPROVED.
9. ENCLOSURE:
   A. FOREST GREEN FIBERGLASS ENCLOSURE SHALL HOUSE ALL OF THE COMPONENTS OF THE PUMP STATION.
   B. THE OBVIOUS PARTS SUCH AS THE PUMP AND MOTOR SHALL BE PLACED IN THEIR RESPECTIVE LOCATIONS.
   C. THE LOCKABLE FLIP TOP LID DESIGN ALLOWS ACCESS FOR MAINTENANCE.
   D. ENCLOSURE SHALL FACE NORTH.
10. MANUFACTURER MUST PERFORM A "START-UP" OF THE PUMP STATION AND A DEMONSTRATION OF ALL FEATURES FOR THE CONTRACTOR AND LCDOT STAFF.
11. MANUFACTURER MUST OFFER A COMPLETIVE SEMI-ANNUAL INSPECTION PROGRAM FOR THE PUMP STATION.
12. THE ABOVE REQUIREMENTS ARE CONSIDERED TO BE THE MINIMUM MATERIAL AND EQUIPMENT FOR A WELL AND PUMP STATION SYSTEM FOR LEE COUNTY.

PUMP & MOTOR:

1. THE PUMP SHALL BE A TURBINE TYPE SUBMERSIBLE LIQUID END WITH ASTM A48 CLASS 30 DISCHARGE ADAPTER, TOP, AND INTERMEDIATE BOWLS. IMPELLERS WILL BE STAINLESS STEEL. BEARINGS AT DISCHARGE, INTAKE, AND BOWL WILL BE NEOPRENE. THE MOTOR WILL BE FRANKLIN 6" RATED 7.5 HP, 208 VOLT, 3450 RPM AT 60 Hz. MOTOR SHELL AND SPLINED OUTPUT SHAFT WILL BE STAINLESS STEEL. KINGSBURY-TYPE WATER LUBRICATED THRUST BEARING. PRESSURE EQUALIZING DIAPHRAGM. HERMETICALLY SEALED WINDINGS.
2. THE POWER CABLE SHALL BE SIZED SUCH THAT THE VOLTAGE DROP WILL NOT EXCEED THREE PERCENT AT THE MOTOR RATED FULL LOAD CURRENT AND VOLTAGE. CABLES SHALL BE DESIGNED SPECIFICALLY FOR SUBMERSIBLE PUMP SERVICE AND SHALL CONSIST OF EITHER INDIVIDUALLY INSULATED CONDUCTORS OR INDIVIDUAL CONDUCTORS INSULATED AND THE WHOLE COVERED WITH AN OUTER JACKET.

PUMP STATION PERFORMANCE:

1. THE REQUIRED PUMP PERFORMANCE AT 75' DEPTH IN THE WELL 70' DRAW DOWN:
   A) DISCHARGE PRESSURE OF 50 PSI,
   B) MAXIMUM REQUIRED FLOW OF 70 GPM,
   C) MINIMUM REQUIRED FLOW OF 25 GPM.

WARRANTIES:

1. THE MANUFACTURER OF THE PUMPING STATION SHALL WARRANT ALL PUMPING STATION COMPONENTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF MANUFACTURE.

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DEPARTMENT of TRANSPORTATION

JOCAMPBE

IRRIGATION WELL AND PUMP STATION
HOMESTEAD ROAD

PUMP STATION DETAILED SITE PLAN

SHEET NO. LD-20

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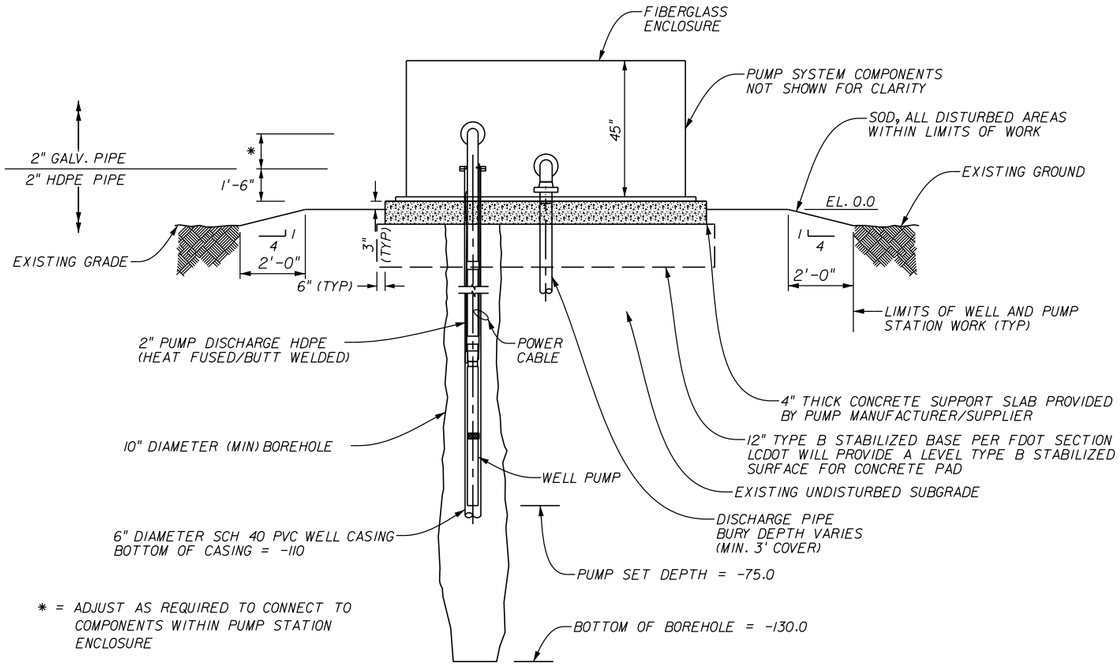
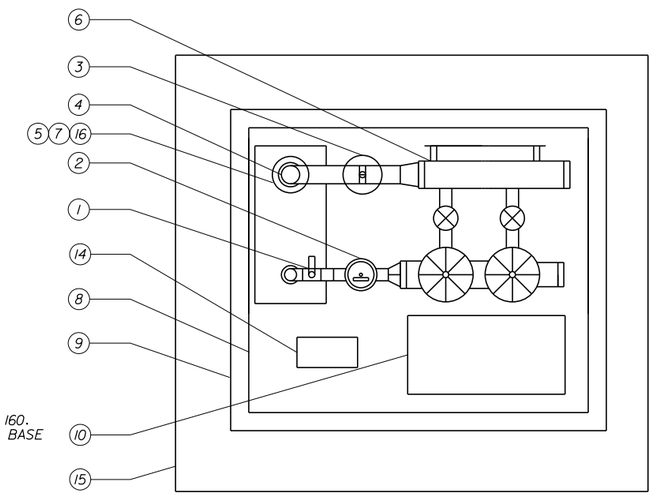
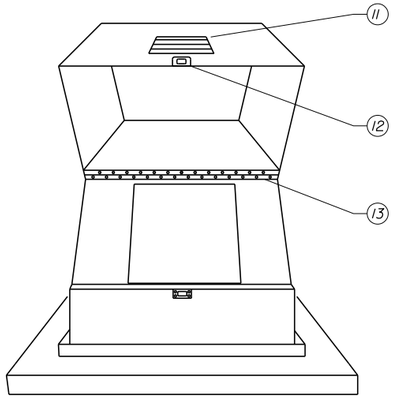


* = ADJUST AS REQUIRED TO CONNECT TO COMPONENTS WITHIN PUMP STATION ENCLOSURE

IRRIGATION WELL SECTIONAL ELEVATION (LOOKING SOUTHWEST)
N.T.S.



PLAN VIEW



FRONT ELEVATION

1 DISCHARGE ISOLATION VALVE
2 METER / MAIN VALVE W/ PULSE OUTPUT
3 2 GALLON PRESSURE TANK
4 ROLL GROOVE MANIFOLD
5 CHECK VALVE (SET IN WELL AND NOT SHOWN FOR CLARITY)
6 DISCHARGE FILTERS WITH 120 MESH W/ AUTOMATIC FLUSH CONTROLLER
7 7.5 HP SUBMERSIBLE PUMP (70 GPM @ 50 PSI)(SET IN WELL AND NOT SHOWN FOR CLARITY)
8 47"W X 56"L X 45"H FOREST GREEN FIBERGLASS FLIP TOP COVER
9 52"W X 62"L WELDED ALUMINUM FRAME
10 UL LISTED CONTROL PANEL W/ VFD CONTROLS IN A FIBERGLASS ENCLOSURE WITH FAULT RESET/DETECTION VIA HUNTER CONTROLLER, LOSS OF PRIME, LOW & HIGH PRESSURE, AND TRANSIENT SURGE PROTECTION
11 8" X 16" VENT (FRONT AND REAR)
12 STAINLESS STEEL LOCKABLE HASP
13 STAINLESS STEEL HINGE AND HARDWARE
14 HUNTER ACC CONTROLLER W/ HUNTER RAIN CLICK
15 5'W X 7'L X 4"T CONCRETE SLAB
16 EXISTING WELL

WELL PUMP SYSTEM
N.T.S.

IRRIGATION WELL - NOTES/SPECIFICATIONS

1. THE WORK TO BE PERFORMED SHALL INCLUDE ALL EQUIPMENT, MATERIALS AND MANPOWER NECESSARY TO INSTALL PUMP, WELL DISCHARGE PIPE, PUMP SYSTEM AND TEST ONE (1) IRRIGATION PRODUCTION WELL PREVIOUSLY COMPLETED BY LEE COUNTY IN THE INTERMEDIATE AQUIFER SYSTEM FORMATIONS. THE WELL LOCATION IS SHOWN ON THE OVERALL SITE PLAN.
2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) REGULATIONS FOR WATER WELLS.
3. ALL CONTRACTOR ACTIVITIES WILL BE CONFINED TO THE WORK SITE.
4. A WATER SOURCE FOR DRILLING WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS (APPLICATIONS AND PAYMENTS) TO CONNECT TO THE WATER SUPPLY FOR TESTING.
5. NO TURBID WATER SHALL BE DISCHARGED INTO THE EXISTING LEE COUNTY STORM SEWER SYSTEM.
6. THE CONTRACTOR SHALL VERIFY THE GROUND SURFACE ELEVATION AT THE WELL, AND THE TOP OF RISER ELEVATION PRIOR TO WELL PUMP AND DISCHARGE PIPE INSTALLATION. THIS SURVEY INFORMATION SHALL BE SUBMITTED TO THE ENGINEER. ELEVATIONS SHALL BE LEVELED TO +/- 0.01 FEET OR BETTER. THE TOP OF THE WELL CASING ELEVATION SHALL BE DETERMINED USING DATUM NAVD 1988. THE REFERENCE ELEVATION SHALL BE THE SURVEYED TOP OF CASING ELEVATION.

WELL PUMP SYSTEM - NOTES

1. ENCLOSURE SHALL ORIENTED SO THAT LID OPENING WILL ALLOW OPERATIONS/MAINTENANCE PERSONNEL TO VIEW EQUIPMENT BY FACING IN THE SOUTHWEST DIRECTION.
2. REFER TO SHEET LD-20 FOR DISCHARGE PIPING INFORMATION.

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of
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FORT MYERS, FLORIDA 33901

IRRIGATION WELL AND PUMP STATION
HOMESTEAD ROAD

PUMP STATION DETAILS AND NOTES

SHEET NO.
LD-21

JOCAMPBE
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