



## THE CITY OF DAYTONA BEACH OFFICE OF THE PURCHASING AGENT

Post Office Box 2451  
Daytona Beach, Florida 32115-2451

Phone (386) 671-8080  
Fax (386) 671-8085

### ADDENDUM NO. 12

DATE: October 31, 2018  
PROJECT: ITB 0318-2210  
NOVA ROAD MEDIAN LANDSCAPING

OPENING DATE: November 15, 2018 at 2:00 PM

This addendum is hereby incorporated into the Bid Documents for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~striketrough~~.

1. Attachment 1 are revised plans dated 10/25/2018.
2. Attachment 2 is a revised bid schedule (#4) for this project. Bidders must use this schedule in order to be considered responsive.
3. The revised magnitude of the project is \$ 550,000-600,000.
4. Questions will be accepted until November 6, 2018 at 5:00 PM.
5. All other terms and conditions remain the same.

The Bidder shall acknowledge receipt of this addendum on the Bid Proposal Form.

The City of Daytona Beach

Kirk Zimmerman, CPPB  
Buyer

As of May 2018, the City has a new vendor registration system. Bidders who would like to continue to be notified of bid opportunities make sure they register with Vendor Registry at <http://purchasing.codb.us> and click "vendor registration". Data from the existing system will not carry over. We will no longer use our current system after 9/30/2018.

ATTACHMENT 1  
REVISED PLANS 10/25/2018



STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS COMPONENTS  
LANDSCAPE PLANS

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SIGNATURE SHEET
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LD-4	PROJECT NOTES
LD-4A	PAYITEM NOTES, TRANSIT NOTE AND MAINTENANCE SCHEDULE
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LD-6-LD-29	LANDSCAPE PLAN
LD-30	IRRIGATION NOTES
LD-30A	IRRIGATION SCHEDULE
LD-30B	TABULATION OF QUANTITIES DIRECTIONAL BORE
LD-31-LD-54	IRRIGATION PLAN
LD-55	IRRIGATION DETAILS

JAMES V. CHISHOLM  
GARY SHIMUN  
JIM NELSON

CITY MANAGER  
DEPUTY CITY MANAGER/ACTING PUBLIC WORKS DIRECTOR  
CITY ENGINEER

MAYOR DERRICK L. HENRY

CITY COMMISSION:

ZONE 1 - RUTH TRAGER  
ZONE 2 - PAMELA WOODS  
ZONE 3 - KELLY WHITE  
ZONE 4 - ROBERT A. GILLILAND  
ZONE 5 - PATRICK HENRY  
ZONE 6 - PAULA R. REED

APPLICANT:

CITY OF DAYTONA BEACH  
950 BELLEVUE AVE., ROOM 600  
P.O. BOX 2451  
DAYTONA BEACH, FLORIDA 32115  
(386) 671-8632  
PROJECT MANAGER: MICHELLE MARTIN

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2018-19 Standard Plans for Road and Bridge Construction (Standard Plans) and applicable Design Standards Revisions (DSRs) at the following website:  
<http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

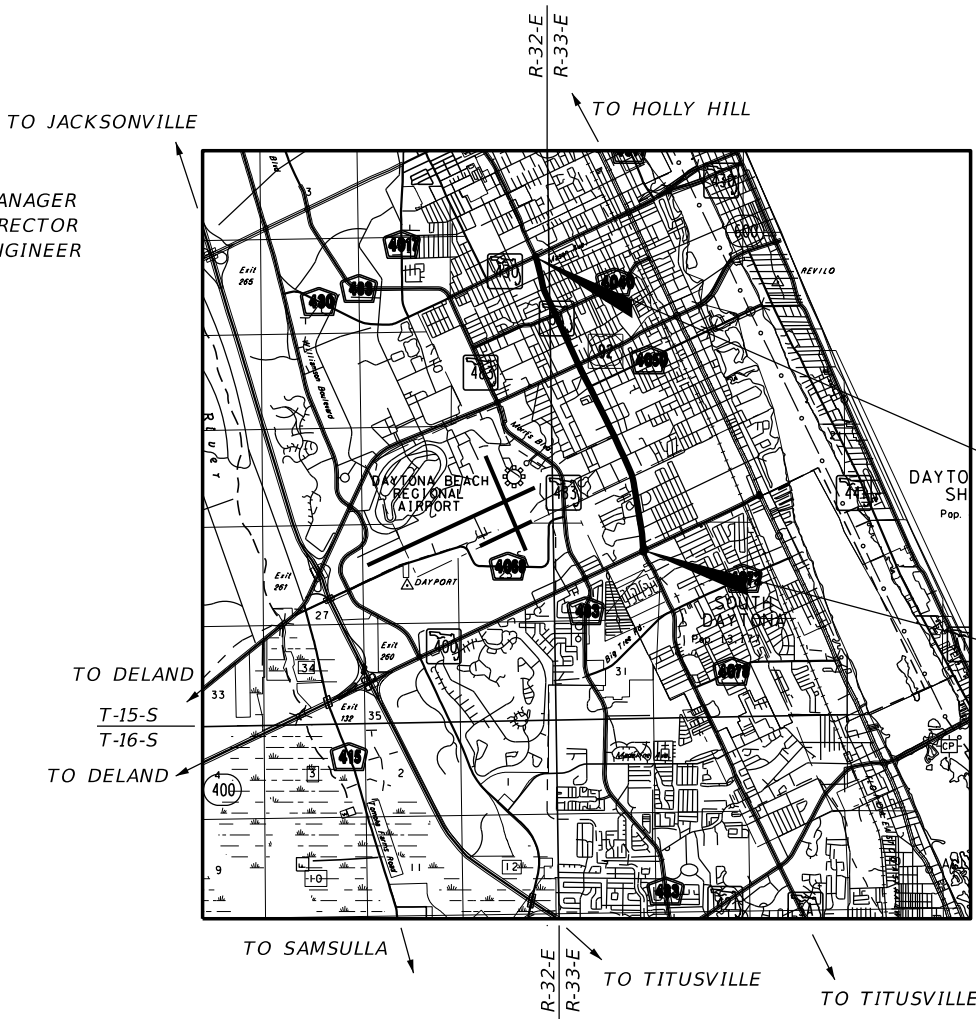
Florida Department of Transportation, July, 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONTRACT PLANS

FINANCIAL PROJECT ID 437855-1-58-01

VOLUSIA COUNTY (79190000)  
CITY OF DAYTONA BEACH

SR 5A (NOVA RD) MEDIAN LANDSCAPE PROJECT  
FROM BEVILLE RD TO MASON AVE



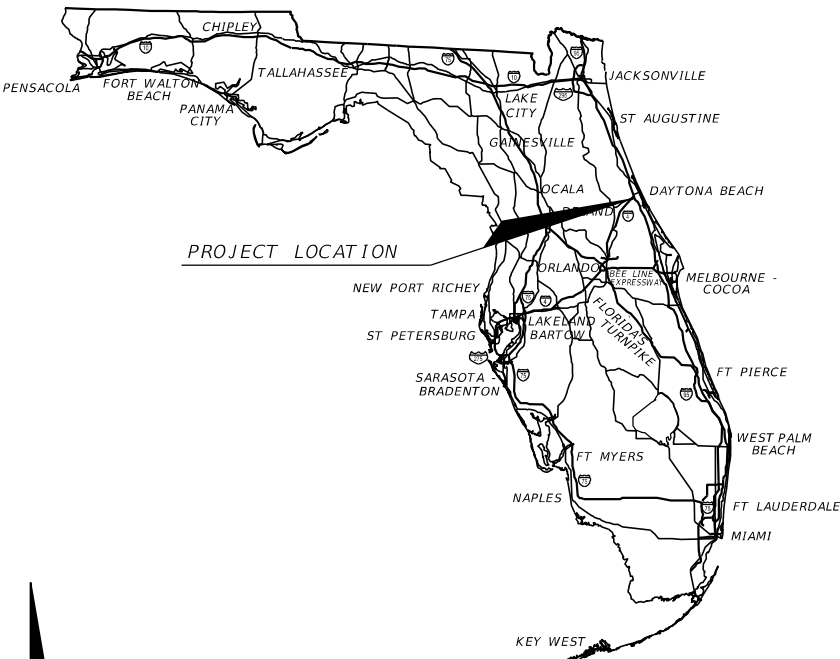
REVISIONS:

10/25/18	CHANGES PER CITY OF DAYTONA BEACH LD-2, LD-4, LD-4A , LD-30 TO 37, LD-39, LD-42 TO LD-44 & LD-46 TO LD-53
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KEY SHEET REVISIONS

DATE	DESCRIPTION
10/15/18	GOVERNING DESIGN STANDARDS & STANDARD SPECIFICATIONS

ADDENDUM #12 - ITB 0318-2210 - 10/31/2018  
PAGE - 3



LANDSCAPE PLANS  
LICENSED PROFESSIONAL OF RECORD:

GLENDON M. HERBERT, R.L.A.  
GAI CONSULTANTS, INC.  
618 E. South Street  
Suite 700  
Orlando, FL 32801  
Contract No. C9D74  
Vendor No. 251260999001  
Certificate of Authorization No.: EB9951

PHASE IV SUBMITTAL

FDOT PROJECT MANAGER:

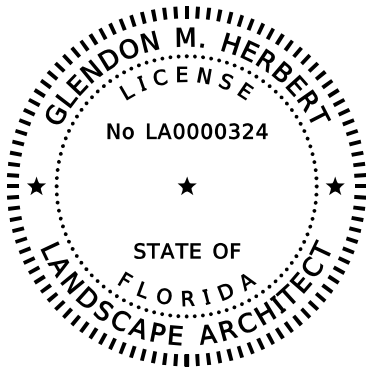
RICHARD GROOMS

CITY PROJECT MANAGER:

MICHELLE MARTIN

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
AS 250	18	LD-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



THIS DOCUMENT HAS BEEN DIGITALLY  
SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED.  
THE SIGNATURE MUST BE VERIFIED ON  
THE ELECTRONIC DOCUMENTS.  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET  
SUITE 700  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION: EB9951  
GLENDON M. HERBERT LA NO. 0000324

THE ABOVE NAMED PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SIGNATURE SHEET
LD-3	TABULATION OF QUANTITIES / PLANT SCHEDULE
LD-4	PROJECT NOTES
LD-4A	PAYITEM NOTES, TRANSIT NOTES AND MAINTENANCE SCHEDULE
LD-5	PROJECT LAYOUT
LD-6 - LD-29	LANDSCAPE PLAN
LD-30	IRRIGATION NOTES
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LD-30B	TABULATION OF QUANTITIES DIRECTIONAL BORE
LD-31 - LD-54	IRRIGATION PLAN
LD-55	IRRIGATION DETAILS

1

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-2

LANDSCAPE TABULATION OF QUANTITIES / PLANT SCHEDULE																					
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-6		LD-7		LD-8		LD-9		LD-10		LD-11	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA					258		447					
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA	272		805				472		773		558	
580-1-1	SMALL	AG	Arachis glabrata	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA												
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA												
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA					1		2		2		6	
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA												
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA							4				4	
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-12		LD-13		LD-14		LD-15		LD-16		LD-17	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA			580		723		387		267		936	
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA												
580-1-1	SMALL	AG	ARACHIS GLABRATA	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA												
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA												
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA			4		5							
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA												
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA	10								1		5	
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-18		LD-19		LD-20		LD-21		LD-22		LD-23	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA	NO LANDSCAPE				NO LANDSCAPE		337		143		297	
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA			1086								1244	
580-1-1	SMALL	AG	ARACHIS GLABRATA	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA									1086		1668	
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA							3		3			
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA	THIS SHEET				THIS SHEET				1		2	
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA			7								6	
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA												
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-24		LD-25		LD-26		LD-27		LD-28		LD-29	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA			620		580		NO LANDSCAPE				NO LANDSCAPE	
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA	1051		412						1013			
580-1-1	SMALL	AG	Arachis glabrata	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA	1603				1272							
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA												
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA			6				THIS SHEET		3		THIS SHEET	
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA	8				6							
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA												
REVISIONS						GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADOLENSW#12001TB 0318-2240 - 10/31/2018 ORLANDO, FL 32801 PAGE - 5 CERTIFICATE OF AUTHORIZATION EB9951				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				TABULATION OF QUANTITIES PLANT SCHEDULE						SHEET NO.  LD-3	
DATE	DESCRIPTION			DATE	DESCRIPTION					ROAD NO.		COUNTY	FINANCIAL PROJECT ID								
										SR 5A		VOLUSIA	437855-1-58-01								

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

UTILITIES

1. UTILITY INFORMATION SHOWN IN THE DRAWINGS IS SCHEMATIC IN NATURE AND A GRAPHIC DEPICTION ONLY. EXISTING UTILITIES ARE TO REMAIN IN PLACE. IF LANDSCAPE IS IN CONFLICT WITH A UTILITY, NOTIFY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER FOR ADJUSTMENT TO THE LANDSCAPE PLACEMENT.

2. UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL LOCATE ALL ABOVE GROUND AND SUBSURFACE UTILITIES WITHIN THE PROJECT LIMITS AND, IF NECESSARY, PHYSICALLY EXPOSE UTILITY FACILITIES THAT MAY BE AFFECTED PRIOR TO INSTALLATION OF ANY PLANT MATERIAL

3. THERE WILL BE NO SEPARATE COMPENSATION FOR PERFORMING THIS UTILITY LOCATE WORK.

4. LIST OF POSSIBLE UTILITY/AGENCY OWNERS:

COMPANY

TELEPHONE NUMBER

BRIGHTHOUSE NETWORKS, LLC

(386)775-4444 EXT 7613

CITY OF DAYTONA BEACH UTILITIES DEPT.

(386)671-8825

AT&T

(770)918-5424

FPL FIBERNET, LLC

(305)552-2931

EMBARQ COMMUNICATIONS INC.

(407)920-8981

TECO PEOPLES GAS

(386)671-2232

CENTURY LINK

(303)992-9931

AT&T/DISTRIBUTION

(386)254-8550

SUNESYS LLC

(267)927-2000

MCI

(972)729-6016

LEVEL 3 COMMUNICATIONS

(720)888-2061

FLORIDA POWER & LIGHT

(800)868-9554

SPRINT NEXTEL

(407)422-6670

5. THERE ARE TWO (2) TRAFFIC MONITORING STATION ON SR5A WITHIN THE PROJECT LIMITS, ONE AT M.P. 6.542 AND ONE AT M.P. 6.035 WHICH ARE NOT TO BE DISTURBED. IF YOU NEED FURTHER INFORMATION CONTACT THE TRANSPORTATION STATISTICS OFFICE, TRAFFIC DATA SECTION MANAGER STEVEN BENTS AT 352-943-6279.

PERMITS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, INCLUDING ALL COSTS ASSOCIATED WITH OBTAINING, ANY AND ALL PERMITS REQUIRED FOR THE PROJECT.

TEMPORARY TRAFFIC CONTROL NOTES:

1. DURING CONSTRUCTION, THE REGULATED SPEED LIMITS ON SR5A (NOVA RD.) OF 45 MPH AND 50 MPH SHALL REMAIN IN EFFECT.

2. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL SUBMIT TO THE CITY TRAFFIC OPERATIONS MANAGER, AND TO FDOT A TEMPORARY TRAFFIC CONTROL (TTC) PLAN FOR REVIEW AND APPROVAL, TTC SHALL REFERENCE THE APPLICABLED FDOT STANDARD PLANS. COORDINATE ALL LANE CLOSURES REQUESTS WITH THE CITY TRAFFIC OPERATIONS MANAGER, THE VOLUSIA COUNTY TRAFFIC ENGINEER AND THE FDOT ENGINEER. REQUESTS ARE TO BE SUBMITTED TWO (2) WEEKS IN ADVANCE OF ANY REQUIRED LANE CLOSURES.

3. NO LANE CLOSURES SHALL BE ALLOWED WITHIN 600 FT. OF SIGNALIZED INTERSECTION FROM 7:00 AM TO 8:00 PM Daily". ONLY ONE LANE MAY BE CLOSED IN EACH DIRECTION

SIGNS:

EXISTING SIGN POST LOCATIONS HAVE NOT BEEN SHOWN IN THESE PLANS. ALL PRESENT TRAFFIC SIGNS AND DELINEATOR POSTS INCLUDING TEMPORARILY ONE ARE TO REMAIN IN PLACE

LANDSCAPE NOTES:

1. DELINEATE ALL PROPOSED BED AREAS AND FLAG ALL TREE AND PALM LOCATIONS PRIOR TO INSTALLATION. ALL PLANTING LOCATIONS MUST BE APPROVED BY, AND MAY BE ADJUSTED BY, THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER.

2. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN PLANT QUANTITY TAKE-OFF AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED AS SHOWN ON LANDSCAPE PLANS.

3. MULCH BEDS AND TREE RINGS WITH A 3" WETTED LAYER OF PINE STRAW MULCH.

4. CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR 1 CALENDAR YEAR FROM THE DATE OF ACCEPTANCE BY THE CITY AND FDOT. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY UPON NOTIFICATION BY THE CITY.

5. FERTILIZER SHALL BE APPLIED TO ALL PLANTING AREAS AT THE RATE OF 1½ LBS. OF ACTUAL NITROGEN, 1½LBS. OF ACTUAL PHOSPHORUS, AND 1½LBS. OF ACTUAL POTASH PER 1000 SQUARE FEET OF PLANTING AREA.

6. LANDSCAPE MATERIAL SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDERDRAINS, DITCH BLOCK, STORMWATER MANAGEMENT FACILITIES, DRAINAGE DISCHARGE PATHS, TRAFFIC SIGNAGE, ITS CAMERAS, LIGHTING AND THEIR APPURTENANCES. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY. THE CONTRACTOR SHALL NOT KNOWINGLY PLACE PLANTS WHERE SUCH A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR WORK PLACED THAT HAS NOT BEEN APPROVED BY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER SHALL BE AT THE CONTRACTORS EXPENSE.

7. ALL EXISTING SIGNS ARE TO REMAIN, VERIFY ALL SIGN LOCATIONS TO ENSURE PROPOSED LANDSCAPING WILL NOT CONFLICT WITH CLEAR SIGHT TO ALL SIGNS. ANY SIGNS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST. NOTIFY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER OF ANY POTENTIAL CONFLICTS WITH THE PROPOSED LANDSCAPE IMPROVEMENTS.

8. ALL SOD DISTURBED FROM THE INSTALLATION OF THIS PROJECT IN THE MEDIAN AREAS THAT ARE NOT DESIGNATED FOR PLANTING BEDS OR MULCH RINGS SHALL BE REPAIRED WITH LIKE SOD, AND THE COST OF ANY SUCH REPAIRS SHALL BE CONSIDERED PART OF THE UNIT IRRIGATION SYSTEM, COMPLETE COSTS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS SOIL FROM ROOT BALL EXCAVATIONS IN ORDER TO MAINTAIN THE EXISTING GRADE AND DRAINAGE CHARACTERISTICS OF THE PRE-PLANTING CONDITION.

10. THE CONTRACTOR SHALL TREAT THE ROOT BALL OF ALL TREES AND SHRUBS IMMEDIATELY ADJACENT TO THE ROOT BALL IN THE UPPER 8-10 INCHES OF THE PLANTING HOLE WITH THE MANUFACTURER'S RECOMMENDED AMOUNT OF MYCORRHIZAL FUNGAL INOCULANTS, TO INCLUDE AT A MINIMUM THE FOLLOWING:

- ENDOMYCORRHIZAL FUNGUS

- ECTOMYCORRHIZAL FUNGUS

- FULVIC ACID

- TRICHODERMA

- PHOSPHATE SOLUBILIZATING, NITROGEN FIXING AND GROWTH PROMOTING BACTERIA

- HUMIC ACID DERIVED FROM LEONARDITE

- SEA KELP EXTRACT (ASCOPHYLLUM NODOSUM)

- YUCCA PLANT EXTRACT (YUCCA SCHIDIGERA)

- WATER HOLDING POLYMER (CROSS LINKED ACRYLAMIDE AND POTASSIUM ACRYLATE)

- PARTICLE SIZE: 0.8 MM TO 2.0 MM

- PERCENT SOLUBLE: LESS THAN 0.05%

- ABSORPTION RATE: 300-400 TIMES IN DISTILLED WATER

SUBMIT SAMPLE OF MYCORRHIZAL FOR ACCEPTANCE BY LANDSCAPE ARCHITECT.

11. SEE PLANS FOR LANDSCAPE SETBACKS FROM UTILITIES. WHEN NO SETBACK IS NOTED THE FOLLOWING SHALL APPLY:

DRAINAGE STRUCTURES

5'

OVERHEAD UTILITIES

10'

UNDERGROUND UTILITIES

5'

12. DURING CONSTRUCTION OF THE EXISTING ROADWAY LIMEROCK AND COMPACTED FILL MAY HAVE BEEN PLACED IN THE MEDIANS. THIS MATERIAL MUST BE REMOVED FROM ALL PLANTING AREAS AS PART OF THIS PROJECT. IT IS THE INTENT THAT SOIL AREAS AROUND ALL PROPOSED PLANTING MATERIALS BE REMOVED AND REPLACED WITH ACCEPTABLE SOILS AS IDENTIFIED IN THE 'SPECIAL BED PREPARATION NOTES'.

SPECIAL EVENTS

IN ACCORDANCE WITH FDOT SPECIFICATIONS 8-6.4, "SPECIAL EVENTS" INCLUDE, BUT ARE NOT LIMITED TO: ROLEX 24 AT DAYTONA, SPEEDWEEKS & DAYTONA 500, BIKE WEEK, COKE ZERO 400, BIKETOBERFEST, AND MOTORCYCLE RACING.

SPECIAL BED PREPARATION NOTES:

1. PERCOLATION TESTING SHALL BE DONE WITH A MINIMUM OF ONE PER MEDIAN WHERE PAUROTIS PALMS ARE TO BE PLANTED. CONTRACTOR SHALL COORDINATE WITH THE CITY PROJECT MANAGER THE TIMING OF TESTS SO A REPRESENTATIVE MAY OBSERVE RESULTS AT THEIR DISCRETION. TESTING WILL BE CONDUCTED USING A 6" DIAMETER HOLE 36" DEEP. AN ACCEPTABLE RATE OF PERCOLATION IS 1" PER HOUR, AND ANY RESULTS NOT OBTAINING THAT RATE SHALL BE BROUGHT TO THE ATTENTION OF THE CITY FOR DETERMINATION OF HOW TO PROCEED.

2. PRIOR TO INSTALLATION OF ANY PLANT MATERIAL, EXISTING SOD, LIMEROCK, COMPACTED SUBGRADE, CONSTRUCTION DEBRIS OR ANY OTHER MATERIAL DETRIMENTAL TO HEALTHY PLANT GROWTH SHALL BE REMOVED AND DISPOSED OF OFFSITE. REPLACEMENT SOIL SHALL BE SIMILAR TO POTTING SOIL MIXES USED BY LOCAL NURSERIES AND CONTAIN 1/3 SAND, 1/3 PEAT AND 1/3 GROUND BARK WITHIN A pH range of 6 to 6.5. CONTRACTOR SHALL PROVIDE A SOIL SAMPLE WITH A TEST RESULT OF pH AND NUTRIENT MAKEUP FOR APPROVAL PRIOR TO INSTALLATION

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
10/01/18	<div><div>1</div>CHANGES PER CITY OF DAYTONA BEACH</div>		

GLENDON M. HERBERT, R.L.A.  
#LA0000324  
GAI CONSULTANTS, INC.  
618 E. SOUTH ADOLENSON #1200  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION EB9951

10/31/2018

10/31/2018

10/31/2018

10/31/2018

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5A	VOLUSIA	437855-1-58-01

PROJECT NOTES

LD-4

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

PAY ITEM NOTES:

PAY ITEMS 580-1-1 (SMALL) AND 580-1-2 (LARGE),  
LANDSCAPE COMPLETE, UNIT COSTS SHALL INCLUDE:

- A. SPECIAL BED PREPARATION
- B. PALMS & TREES, INCLUDING STAKING
- C. SHRUBS & GROUND COVER
- D. MYCORRHIZAL FUNGAL INOCULANTS
- E. MULCH
- F. SPECIAL SOIL MIX & SOIL AMENDMENTS
- G. INSTALLATION & ALL PHASES OF REQUIRED CONSTRUCTION

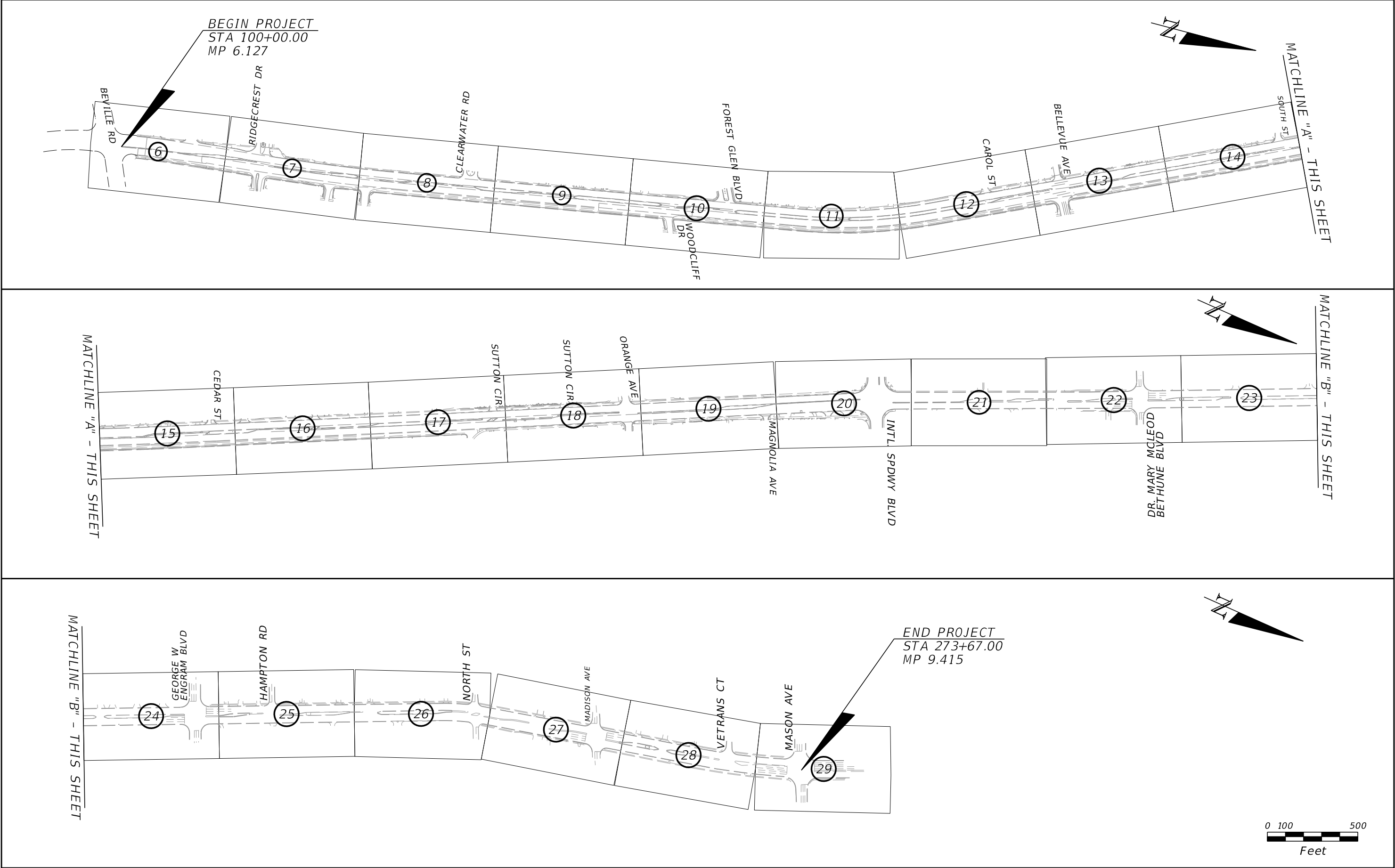
TRANSIT AGENCY CONTACT INFORMATION:

Transit Agency Contact Information for Volusia County					
	Contact person	Title	Phone	Extens ion	Email
Start Work Notifications	Cornel Mack	Votran Operation Manager	(386) 756-7496	4146	Cmack@volusia.org
	Elizabeth Suchsland	Assistant General Manager	(386) 756-7496	4127	esuchsland@volusia.org
	John Cotton	Transit Analyst	(386) 756-7496	4111	icotton@volusia.org
	Heather Blanck	Transit Coordinator	(386) 756-7496	4112	hblanck@volusia.org
Lane Closure Notifications	Cornel Mack	Votran Operation Manager	(386) 756-7496	4146	Cmack@volusia.org
	Elizabeth Suchsland	Assistant General Manager	(386) 756-7496	4127	esuchsland@volusia.org
	John Cotton	Transit Analyst	(386) 756-7496	4111	icotton@volusia.org
	Heather Blanck	Transit Coordinator	(386) 756-7496	4112	hblanck@volusia.org

CITY OF DAYTONA BEACH TECHNICAL MAINTENANCE SCHEDULE NOVA ROAD, BEVILLE TO MASON														
LOCAL GOVERNMENT COMMITMENT														
MAINTENANCE SERVICE ITEMS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	COMMENTS /SPECIFICATIONS	
1. Mowing	X		X	XX	XX	XX	XX	XX	XX	X	X		All mowing by City.	
	Turf areas to be maintained yearly at a 2.5 - 3" height.													
2. Fertilization		X				X				X			Test soil annually before fertilizing to determine proper analysis and application rate.	
	Apply a minimum of 1lb / 1000sf / application. Use balanced fertilizer,10-10-10 or 12-12-12, or other as recommended by soil test. Apply palm fertilizer with micornutrients. (Fe, Mn, Zn, Cu, B)													
3. Weeding	X		X		X		X		X		X		It's important to eradicate weeds before they are allowed to go to seed.	
	Weed all plant beds montly. Mechanical weed removal is prefered, but chemical treatment is acceptable.													
4. Edging	X		X		X	X	X	X	X		X			
	Edge back of curb and landscape beds when mowing . Edging debris shall be removed from pavement and beds.													
5. Herbicide/Insecticide	X			X			X			X			Trees and plams to be inspected and pruned for clearance quarterly to maintain 8.5' foliage height for trees and 24" ground cover height for clear sight window in medians per FDOT Index 546.	
	Provide insect and disease control inspections quarterly and treatment, if needed , quarterly. Treat exotic species removal areas to eliminate regrowth quarterly.													
6. Pruning	X			X			X			X			inspected and pruned for clearance quarterly to maintain 8.5' foliage height for trees and 24" ground cover height for clear sight window in medians per FDOT Index 546.	
	Prune Crape Myrtles in January, remove maximum 1/3rd height of tree; remove dead heads from Society Garlic as needed; trim suckering growth on ligustrum trees (do not shear);remove dead fronds and seed pods in fall from Palms.													
7. Mulching										X				
	Add additional mulch annually as necessary maintain mulch at a depth of 3".													
8. Irrigation	X	X	X	X	X	X	X	X	X	X	X	X	Maintain heads so as not to spray into travel lanes.	
	Set irrigation systems run times per County guidelines after first 90 day cycle to scheule supplied by Contractor. Inspect and run irigation system monthly for adjustment and proper coverage, and clean filters.													
9. Litter Pick-up	X	X	X	X	X	X	X	X	X	X	X	X	Pick up litter prior to mowing operations.	
	Remove litter monthly.													
10. Work Zone Control Plan	X	X	X	X	X	X	X	X	X	X	X	X		
	Per FDOT Requirements for work being perfomed according to FDOT Standard Index 605, 611, 612, 612 and 660.													
11. Estimate of Manpower and Equipment													3.288 Miles MP 6.127 to MP 9.415	
Approved by: City of Daytona Beach	Name:												Date:	

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PAY ITEM NOTES , TRANSIT NOTE AND MAINTENANCE SCHEDULE		SHEET NO.  LD-4A
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
10/01/18	<div><div></div><div>CHANGES PER CITY OF DAYTONA BEACH</div></div>				SR 5A	VOLUSIA	437855-1-58-01			

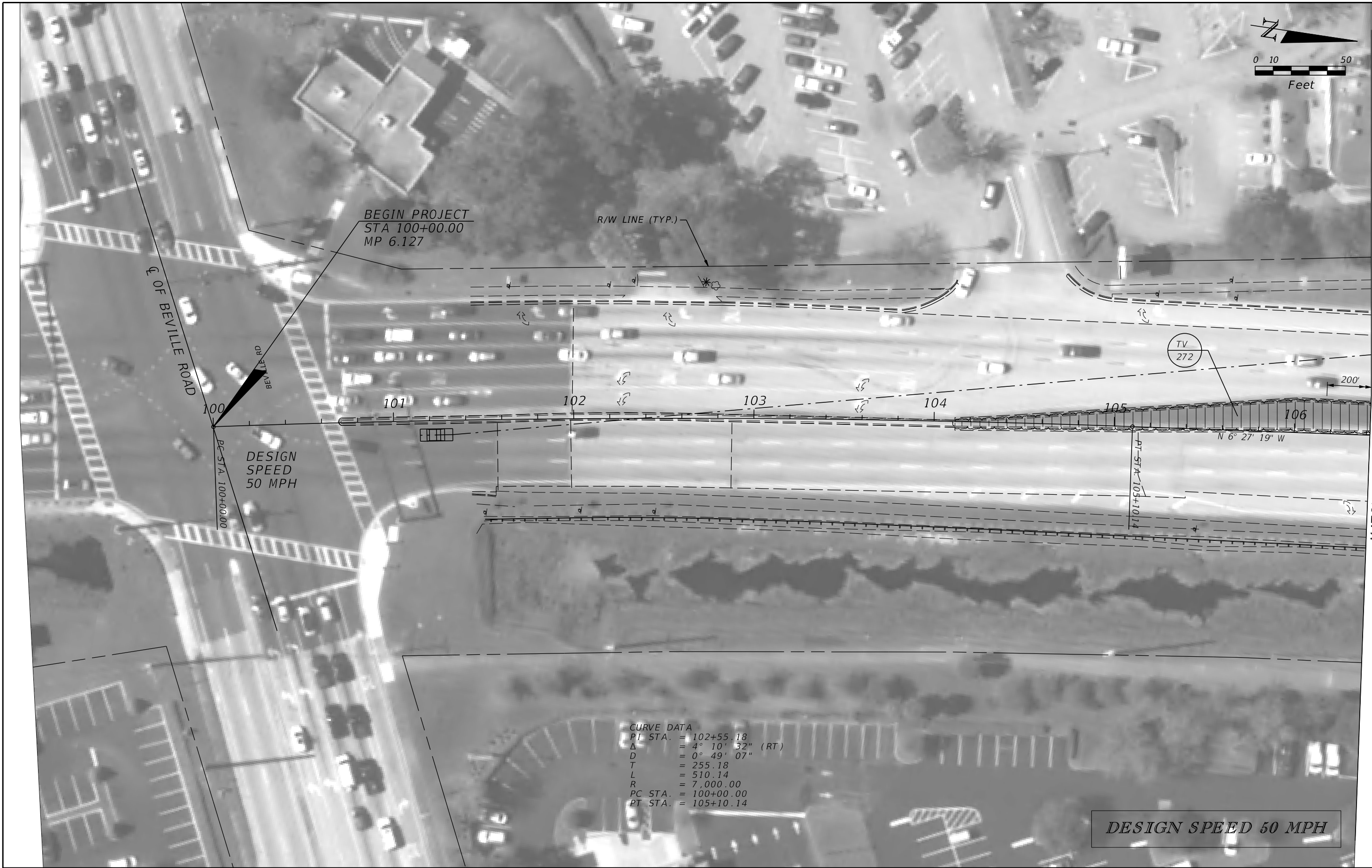
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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ST ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	SHEET NO.  LD-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

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CURVE DATA  
PI STA. = 102+55.18  
Δ = 4° 10' 32" (RT)  
D = 0° 49' 07"  
T = 255.18  
L = 510.14  
R = 7,000.00  
PC STA. = 100+00.00  
PT STA. = 105+10.14

DESIGN SPEED 50 MPH

MATCHLINE - SEE SHEET LD-7

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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVENUE, SUITE 1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-6
					SR 5A	VOLUSIA	437855-1-58-01		

MATCHLINE - SEE SHEET LD-6



MATCHLINE - SEE SHEET LD-8

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-7

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MATCHLINE - SEE SHEET LD-7



MATCHLINE - SEE SHEET LD-9

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.  LD-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		
				ADDENDUM #1200 PAGE - 11					

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MATCHLINE - SEE SHEET LD-8



MATCHLINE - SEE SHEET LD-10

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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.  LD-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		

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1/3/2018

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MATCHLINE - SEE SHEET LD-9



MATCHLINE - SEE SHEET LD-11

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 5A	VOLUSIA	437855-1-58-01		LD-10

GLENDON M. HERBERT, R.L.A.  
#LA0000324  
GAI CONSULTANTS, INC.  
618 E. SOUTH ADELSON #1200  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION EB9951

ADDENDUM #12001TB 0318-2240-10/31/2018  
PAGE - 13

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CURVE DATA  
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Δ = 15° 26' 19" (LT)  
D = 2° 07' 19"  
T = 365.98  
L = 727.53  
R = 2,700.00  
PC STA. = 137+96.95  
PT STA. = 145+24.48

DESIGN SPEED 50 MPH

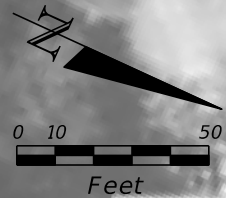
REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

ADDITIONAL PROJECT INFORMATION  
PROJECT NO. TB 0318-2240-10/31/2018  
PAGE - 14

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MATCHLINE - SEE SHEET LD-11



CURVE DATA  
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PC STA. = 137+96.95  
PT STA. = 145+24.48

R/W LINE (TYP.)

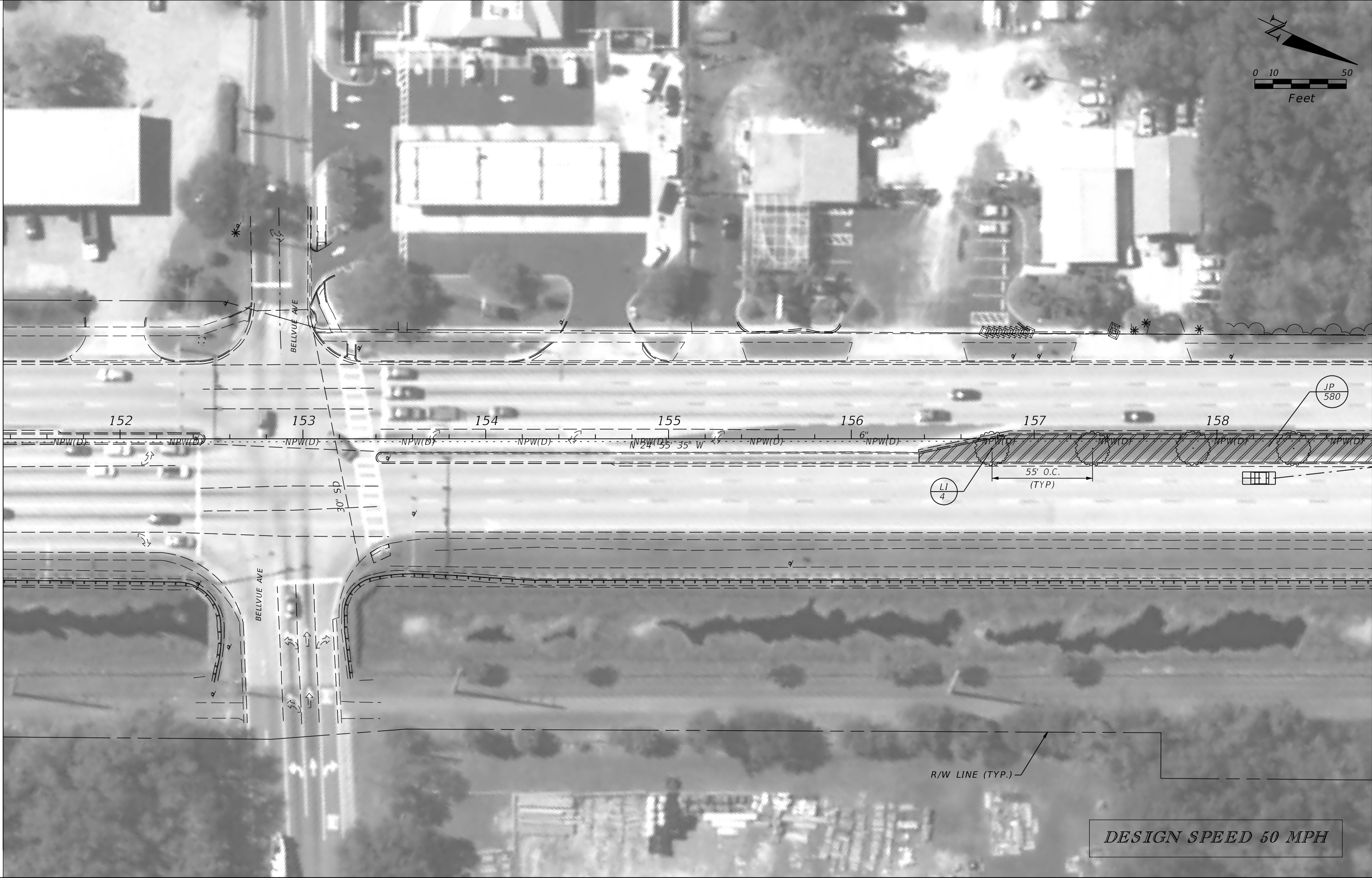
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MATCHLINE - SEE SHEET LD-13

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-12

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MATCHLINE - SEE SHEET LD-12



MATCHLINE - SEE SHEET LD-14

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-13

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MATCHLINE - SEE SHEET LD-13



MATCHLINE - SEE SHEET LD-15

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-14

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MATCHLINE - SEE SHEET LD-14



MATCHLINE - SEE SHEET LD-16

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-15

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MATCHLINE - SEE SHEET LD-15

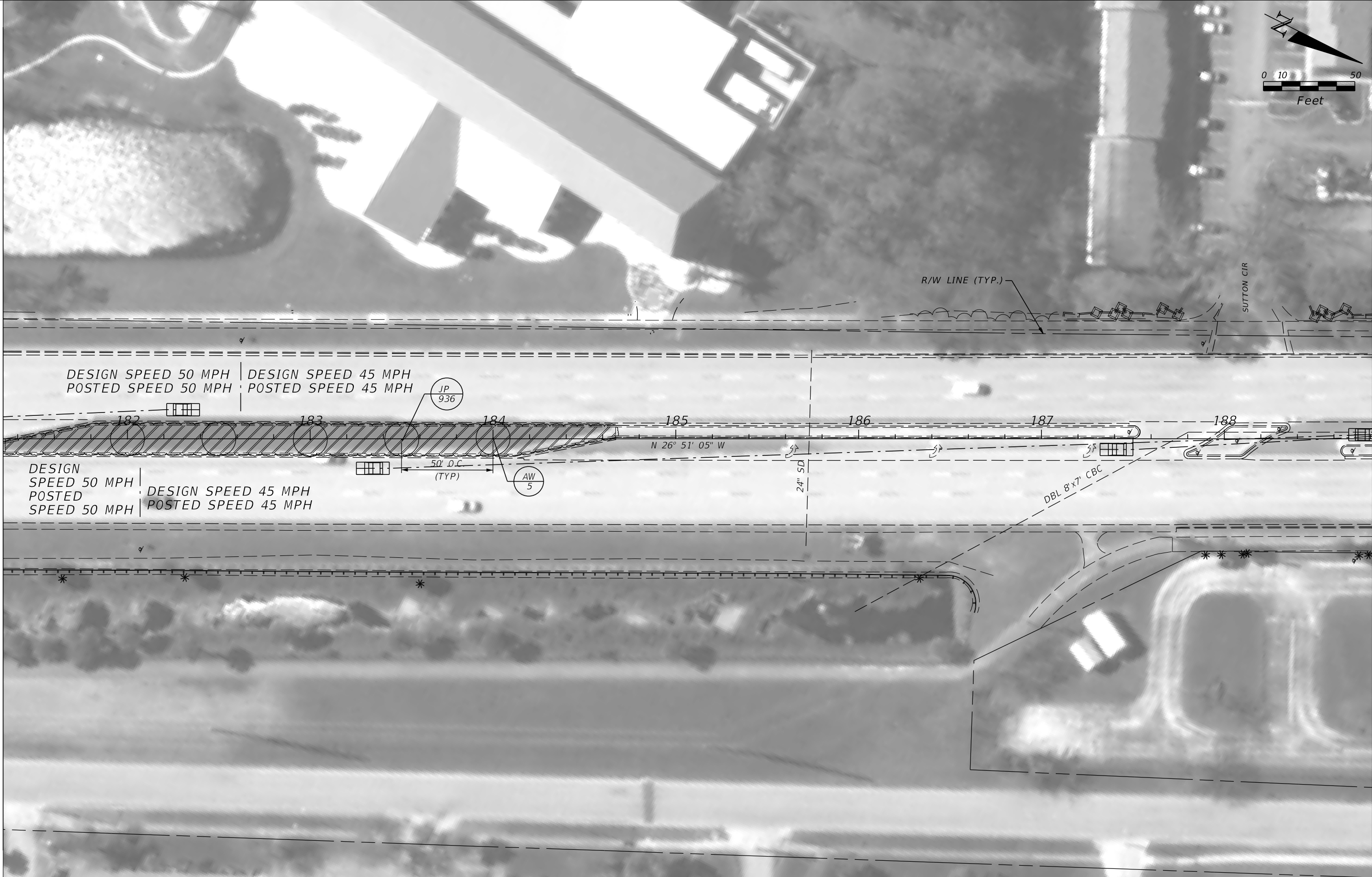


MATCHLINE - SEE SHEET LD-17

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELMON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-16

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MATCHLINE - SEE SHEET LD-16



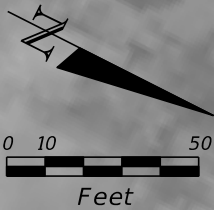
MATCHLINE - SEE SHEET LD-18

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ARLINGTON ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-17
					SR 5A	VOLUSIA	437855-1-58-01		

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MATCHLINE - SEE SHEET LD-17



MATCHLINE - SEE SHEET LD-19

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NO LANDSCAPING THIS SHEET

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		
				ADDENDUM #12001TB 0318-2240 - 10/31/2018 PAGE - 21					

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MATCHLINE - SEE SHEET LD-18



MATCHLINE - SEE SHEET LD-20

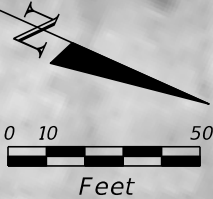
REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVENUE #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-19

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MATCHLINE - SEE SHEET LD-20



MATCHLINE - SEE SHEET LD-22

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-21

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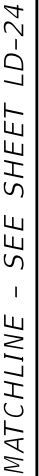
MATCHLINE - SEE SHEET LD-21



MATCHLINE - SEE SHEET LD-23

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.  LD-22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		
				ADDENDUM #12001TB 0318-2240-10/31/2018 PAGE - 25					

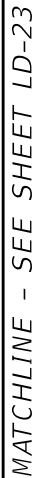
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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADRIAN ST #1200 TB 0318-2240-10/31/2018 ORLANDO, FL 32801 PAGE - 26 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		
								LD-23	

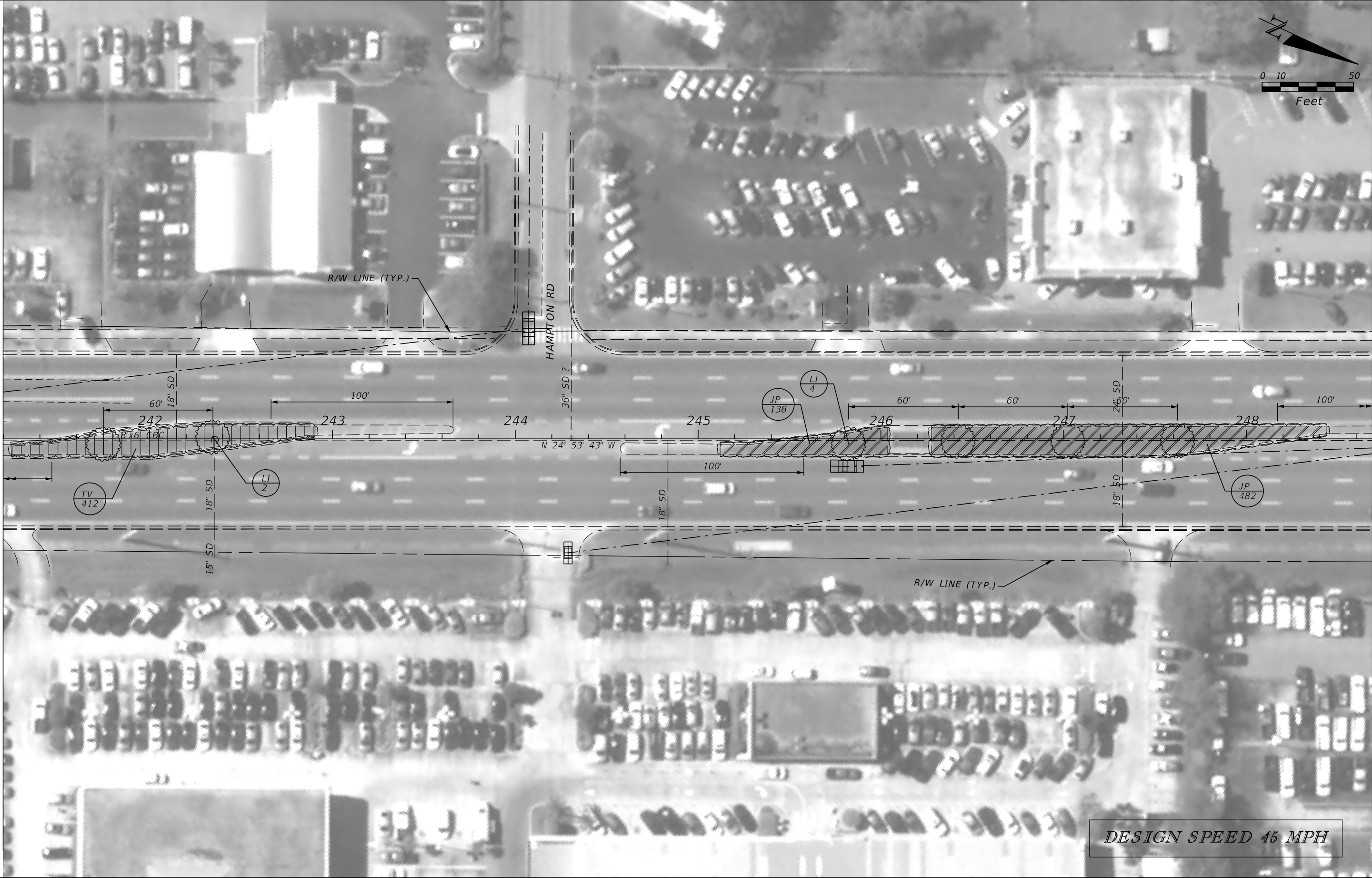




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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADDENDUM #12-001 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>LANDSCAPING PLAN</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-24

MATCHLINE - SEE SHEET LD-24



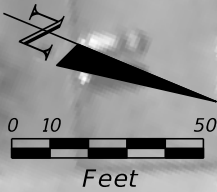
MATCHLINE - SEE SHEET LD-26

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-25

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



MATCHLINE - SEE SHEET LD-25



CURVE DATA  
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D = 4° 09' 12"  
T = 142.56  
L = 284.11  
R = 1,379.52  
PC STA. = 253+43.83  
PT STA. = 256+27.94

DESIGN SPEED 45 MPH

MATCHLINE - SEE SHEET LD-27

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-26

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MATCHLINE - SEE SHEET LD-26



MATCHLINE - SEE SHEET LD-28

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.  LD-27
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



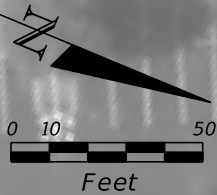


MATCHLINE - SEE SHEET LD-29

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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADRIENNE #1200 TB 0318-2240 - 10/31/2018 ORLANDO, FL 32801 PAGE - 31 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.	
DATE	DESCRIPTION		DATE		DESCRIPTION		ROAD NO.		COUNTY	FINANCIAL PROJECT ID
							SR 5A		VOLUSIA	437855-1-58-01
									LD-28	

MATCHLINE - SEE SHEET LD-28



R/W LINE (TYP.)

DESIGN  
SPEED  
45 MPH

272

273

PT STA. 273+67.00

27°x43° SD

END PROJECT  
STA 273+67.00  
MP 9.415

10'x6' CBC

18°x36° SD

MASON AVE

MASON AVE

CURVE DATA  
PI STA. = 270+78.83  
Δ = 8° 42' 08" (LT)  
D = 1° 30' 25"  
T = 289.29  
L = 577.46  
R = 3,801.97  
PC STA. = 267+89.54  
PT STA. = 273+67.00

DESIGN SPEED 45 MPH

NO LANDSCAPING THIS SHEET

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-29
					SR 5A	VOLUSIA	437855-1-58-01		


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IRRIGATION NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED. 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 APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
2. THE 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.
3. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS, BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THE PLANS - CONTRACTOR TO VERIFY. COORDINATE ALL IRRIGATION SYSTEM CONSTRUCTION WITH EXISTING AND NEW PLANTINGS TO AVOID CONFLICT OR INTERFERENCE WITH LOCATION OF PIPING, SLEEVEING, 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 DETERMINE WHETHER AN 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 AND INSTRUCTIONS RECOMMENDED BY THEIR MANUFACTURER.
7. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION. MAINLINE TO BE INSTALLED A MINIMUM OF FIVE FEET OFF EDGE OF PAVEMENT IN MEDIANS. SHOWN OUTSIDE FOR CLARITY PURPOSES ONLY.
8. 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.
9. CONTRACTOR TO PROVIDE INSTALLATION SHOP DRAWINGS AND MANUFACTURER PRODUCT INFORMATION FOR ALL IRRIGATION COMPONENTS. ALL INSTALLATIONS SHALL BE AS RECOMMENDED 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.
10. 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 (5#8" AND LARGER) AND OTHER EXTRANEIOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.
11. ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMMENDED BY THE MANUFACTURER.
12. CONTRACTOR TO LABEL ALL VALVE BOX COVERS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER. NUMBERING SIZE 1". ALL VALVE BOXES TO HAVE BOLT DOWN COVER WITH BOLT INSTALLED.
13. CONTRACTOR TO PLACE BUBBLERS AT OUTER EDGE OF ROOT BALL, NOT OUTER EDGE OF PLANTING HOLE.

- 14.ALL WIRE SPLICES TO BE MADE WITH KINGBLACK WIRE CONNECTORS OR APPROVED EQUAL.
- 15.IRRIGATION CONTRACTOR SHALL INSTALL A IRROMETER WATERMARK 200SS SOIL MOISTURE SENSOR COMPATIBLE WITH DC VOLTAGE FOR EACH CONTROLLER. INSTALL SOIL MOISTURE SENSOR THREE FEET OFF EDGE OF PAVEMENT. LOCATION SHALL BE DOCUMENTED ON AS BUILT PLANS WITH A MINIMUM OF TWO REFERENCE POINTS. INSTALL SOIL MOISTURE SENSOR PER MANUFACTURE SPECIFICATIONS.
- 16.LOCATE ALL VALVES WITH A MINIMUM OFFSET OF 5'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT.
- 17.THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL DIRECTIONAL BORING.
- 18.ALL UN-SIZED PIPE SHALL BE 3/4".
- 19.IRRIGATION LATERAL LINES TO BE BURIED AT A DEPTH OF 12".
- 20.IRRIGATION MAINLINES TO BE BURIED AT A DEPTH OF 18".
- 21.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.
- 22.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.
- 23.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.
- 24.THE CITY OF DAYTONA BEACH SHALL BE RESPONSIBLE FOR ALL CONSUMPTION COST FOR WATER SERVICE TO IRRIGATION SYSTEM.
- 25.DIRECTIONAL BORES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 555 FOR PRESSURIZED PIPES. INSTALL HDPE X SCHEDULE 40 FUSED ENDS FOR 2" CROSSING AT MEDIAN IN FRONT OF CEMETERY.
- 26.WHERE APPLICABLE, IRRIGATION SYSTEM SHALL HAVE RECLAIMED WATER IDENTIFICATION SIGNS INSTALLED AT ONE VALVE GROUP WITHIN EACH IRRIGATED MEDIAN. ALL RECLAIMED WATER SYSTEM PIPING, FIXTURES AND DEVICES SHALL BE COLOR CODED PURPLE. THE COLOR PURPLE SHALL BE ADDED PIGMENT TO THE MATERIAL AT THE TIME OF MANUFACTURE. ALL RECLAIMED WATER VALVE BOXES SHALL BE LABELED RECLAIMED WATER AND COLOR CODED PURPLE.
- 27.ALL IRRIGATION SOUTH OF INTERNATIONAL SPEEDWAY BLVD. SHALL USE REUSE WATER, ALL IRRIGATION NORTH OF INTERNATIONAL SPEEDWAY BLVD. SHALL USE POTABLE WATER



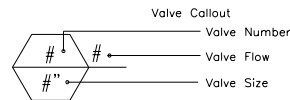
REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADDENDUM #12001TB 0318-2240 - 10/31/2018 ORLANDO, FL 32801 PAGE - 33 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-30

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SYMBOL	MANUFACTURER/MODEL *	QTY	ARC	PSI	GPM	RADIUS
	Hunter PROS-06-PRS30-CV-R 15 Strip Series	14	LCS	30	0.49	4x15'
	Hunter PROS-06-PRS30-CV-R 15 Strip Series	7	RCS	30	0.49	4x15'
	Hunter PROS-06-PRS30-CV-R 15 Strip Series	92	SST	30	1.21	4x30'
	Hunter PROS-06-PRS30-CV-R 8 Series MPR	57	180	30	0.52	8'
	Hunter PROS-06-PRS30-CV-R 8 Series MPR	1	90	30	0.26	8'
	Hunter PROS-06-PRS30-CV-R 8 Series MPR	1	120	30	0.37	8'
	Hunter PROS-06-PRS30-CV-R 10 Series MPR	38	180	30	0.79	10'
	Hunter PROS-06-PRS30-CV-R 12 Series MPR	29	180	30	1.30	12'
	Hunter PROS-06-PRS30-CV-R 15 Series MPR	358	180	30	1.85	15'
	Hunter PROS-06-PRS30-CV-R 15 Series MPR	10	90	30	0.92	15'
	Hunter PROS-06-PRS30-CV-R 15 Series VAN	1	Adj	30		8'
	Hunter PROS-06-PRS30-CV-R 15 Series VAN	5	Adj	30		10'
	Hunter PROS-06-PRS30-CV-R 15 Series VAN	3	Adj	30		15'
	Hunter PROS-12-PRS30-CV-R 15 Strip Series	15	LCS	30	0.49	4x15'
	Hunter PROS-12-PRS30-CV-R 15 Strip Series	1	RCS	30	0.49	4x15'
	Hunter PROS-12-PRS30-CV-R15 Strip Series	32	SST	30	1.21	4x30'
	Hunter PROS-12-PRS30-CV-R 8 Series MPR	208	180	30	0.52	8'
	Hunter PROS-12-PRS30-CV-R 8 Series MPR	12	90	30	0.26	8'
	Hunter PROS-12-PRS30-CV-R 10 Series MPR	61	180	30	0.79	10'
	Hunter PROS-12-PRS30-CV-R 12 Series MPR	65	180	30	1.30	12'
	Hunter PROS-12-PRS30-CV-R 15 Series MPR	184	180	30	1.85	15'
	Hunter PROS-12-PRS30-CV-R 15 Series MPR	23	90	30	0.92	15'
	Hunter PROS-12-PRS30-CV-R 15 Series MPR	1	120	30	1.23	15'
	Hunter PROS-12-PRS30-CV-R 12 Series HE VAN	3	Adj	30		12'
	Hunter PROS-12-PRS30-CV-R 15 Series HE VAN	17	Adj	30		15'
	Hunter PROS-12-PRS30-CV-R 8 Series VAN	2	Adj	30		8'
	Hunter PROS-12-PRS30-CV-R 10 Series VAN	2	Adj	30		10'
	Hunter PROS-12-PRS30-CV-R 15 Strip Series	1	LCS	30	0.49	4x15'
	Hunter PROS-12-PRS30-CV-R 15 Strip Series	2	SST	30	1.21	4x30'
	Two Hunter PCB-25 bubbler	80	360	30	0.50	1'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-F5 with DC latching solenoid in 12" Valve Box	74
	Hunter NODE100 1 station	3
	Hunter NODE200 2 station	15
	Hunter NODE400 4 station	11
	Water Meter 1"	1
	Wilkins 975XL 1-1/2" Backflow Preventer	1
	Point of Connection- Install new 6"x2" service tap into existing 6" reclaimed water line.	1
	Point of Connection- Locate existing reclaimed water tap to irrigation in medians. Install 1-1/2" mainline as necessary to new control valve shown. Install new reclaimed water line as shown so the median between stations 104 and 108 has a functional water supply to new irrigation.	11
	Irrigation Lateral: PVC Class 200 SDR 21 see note 26	17,000 l.f.
	Irrigation Main: PVC Schedule 40 size as shown see note 26	9,900 l.f.
	Direction Bore: HDPE 3608 DR9 with fused ends to pipe thread to be used as mainline without a sleeve.	2,800 l.f.
IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN TAKE OFF		



NOTE:

\* LISTED MODELS/ MANUFACTURE ARE FOR REFERENCE ONLY, APPROVED EQUAL IS ACCEPTED

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION SCHEDULE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-30A

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IRRIGATION TABULATION OF QUANTITIES ( DIRECTIONAL BORE )

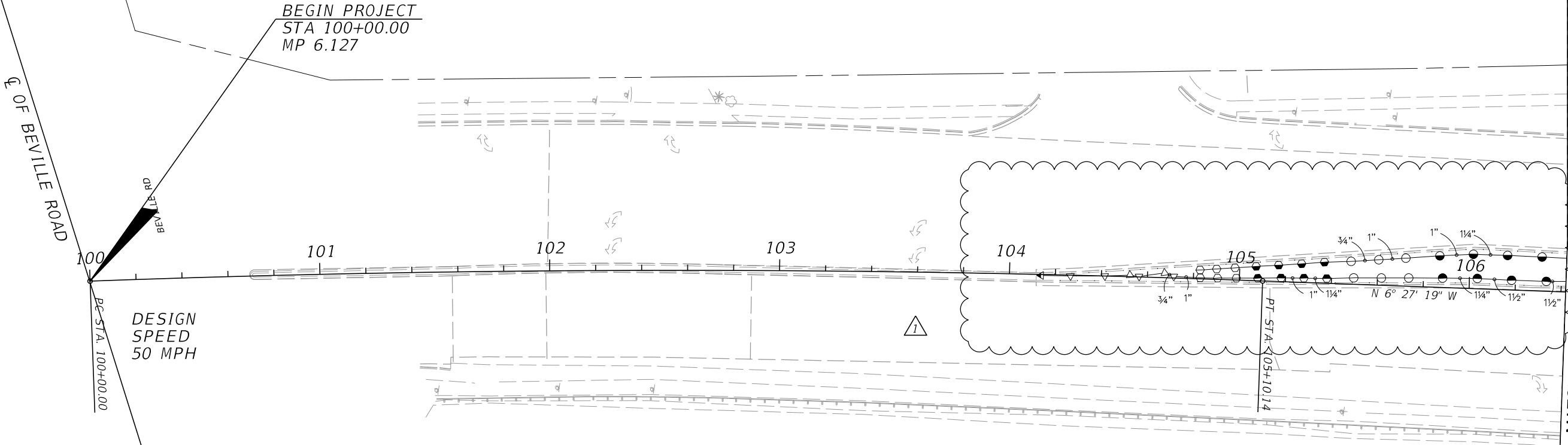
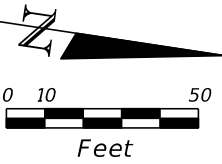
DESCRIPTION	LOCATION STA. TO STA.	UNIT	SHEET NUMBERS															
			LD-31		LD-32		LD-33		LD-34		LD-35		LD-36		LD-37		LD-38	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
2" HDPE 3608 PIPE	107+36.76 TO 111+30.12	LF			394													

DESCRIPTION	LOCATION STA. TO STA.	UNIT	SHEET NUMBERS															
			LD-39		LD-40		LD-41		LD-42		LD-43		LD-44		LD-45		LD-46	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
2" HDPE 3608 PIPE	160+25.13	LF	51															
	173+62.42	LF			50													
	182+75.46	LF																
	196+21.85	LF																
	202+08.30	LF																
	218+31.14 TO 218+76.95	LF															45	

DESCRIPTION	LOCATION STA. TO STA.	UNIT	SHEET NUMBERS															
			LD-47		LD-48		LD-49		LD-50		LD-51		LD-52		LD-53		LD-54	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
2" HDPE 3608 PIPE	218+76.95 TO 220+76.00	LF	200															
	221+90.41 TO 225+16.06	LF	326															
	228+45.40 TO 229+55.10	LF			110													
	234+04.60 TO 234+90	LF					55											
	239+26.30 TO 241+19.81	LF					194											
	241+19.81 TO 241+27.07	LF							8									
	242+87.36 TO 245+14.46	LF							228									
	248+42.03 TO 248+68.81	LF							27									
	248+68.81 TO 250+06.81	LF									139							
	253+68.67 TO 254+07.88	LF									62							
	254+89.69 TO 255+63.26	LF									77							
	258+57.35 TO 259+24.19	LF																
	261+47.84 TO 262+54.04	LF											67					
	263+94.70 TO 264+20.78	LF											107					
	265+64.04 TO 266+21.84	LF													57			
															58			

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ARLINGTON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES DIRECTIONAL BORE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-30B

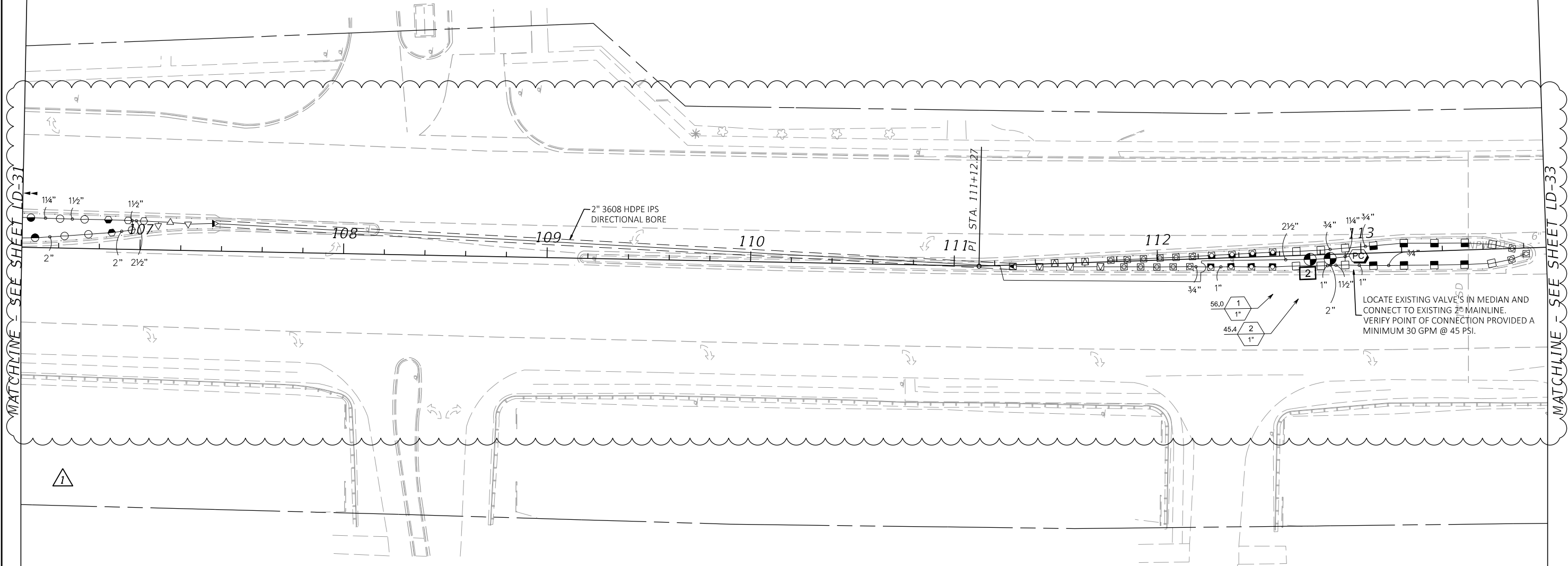
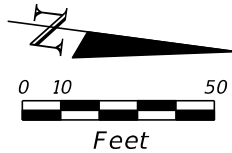
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CURVE DATA  
PI STA. = 102+55.18  
Δ = 4° 10' 32" (RT)  
D = 0° 49' 07"  
T = 255.18  
L = 510.14  
R = 7,000.00  
PC STA. = 100+00.00  
PT STA. = 105+10.14

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-31

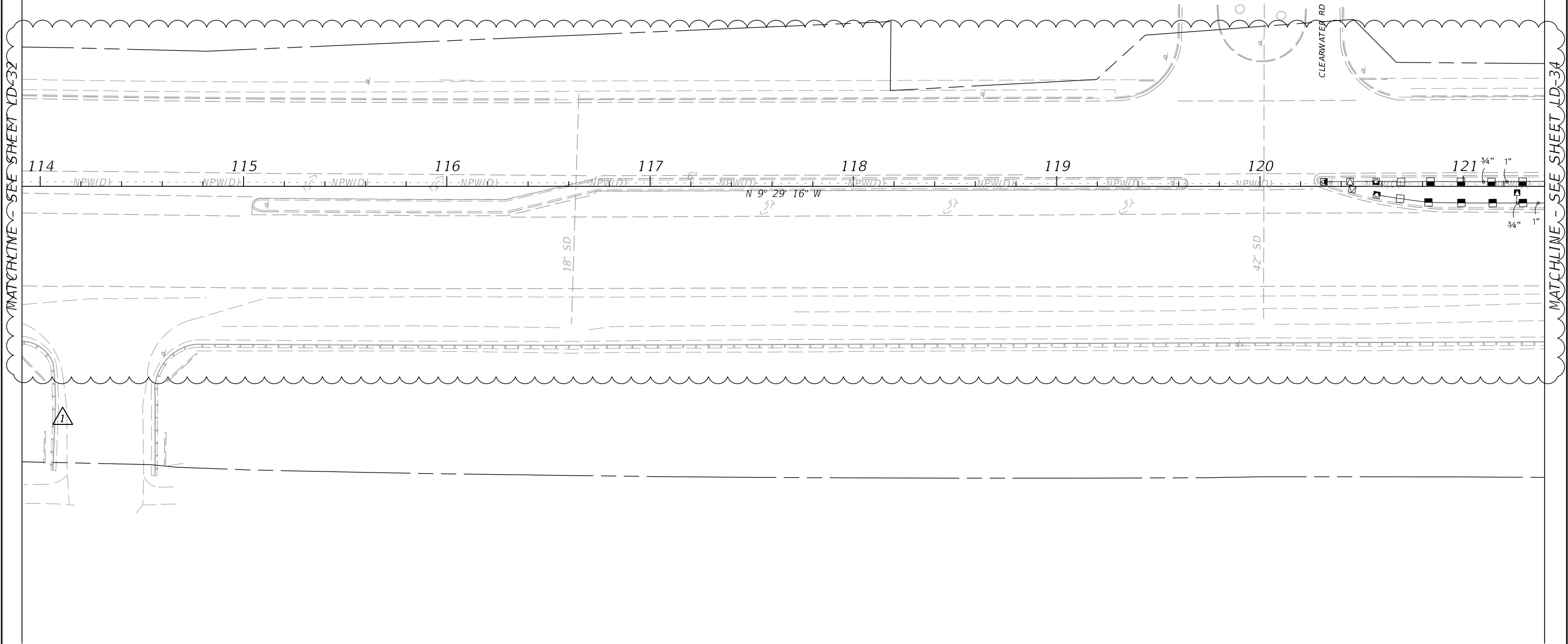
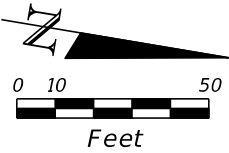
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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-32

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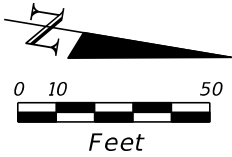
MATCHLINE - SEE SHEET LD-32



MATCHLINE - SEE SHEET LD-34

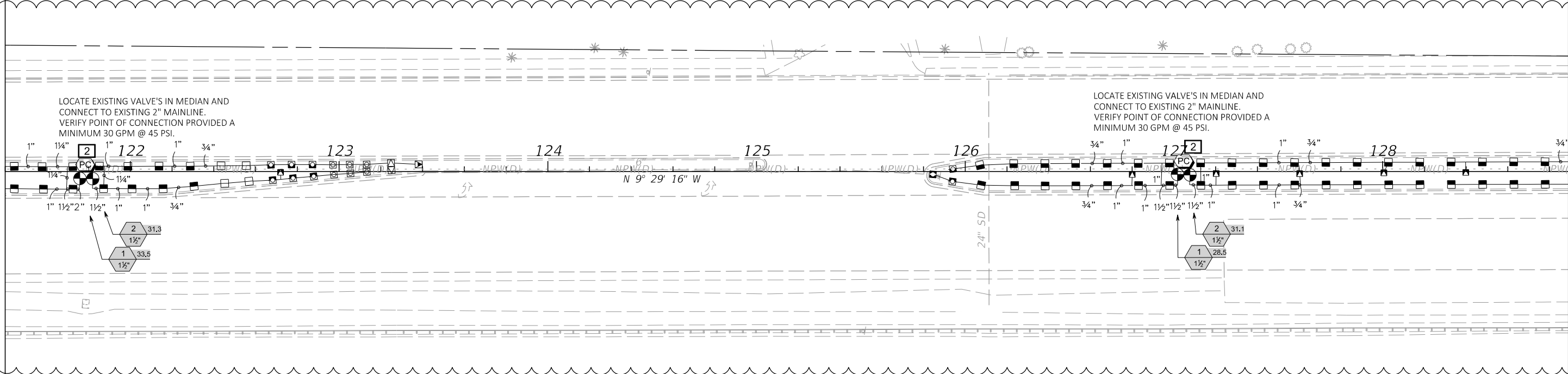
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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-33



MATCHLINE - SEE SHEET LD-33

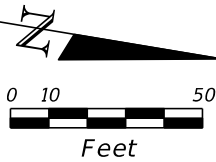
MATCHLINE - SEE SHEET LD-35



1

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-34

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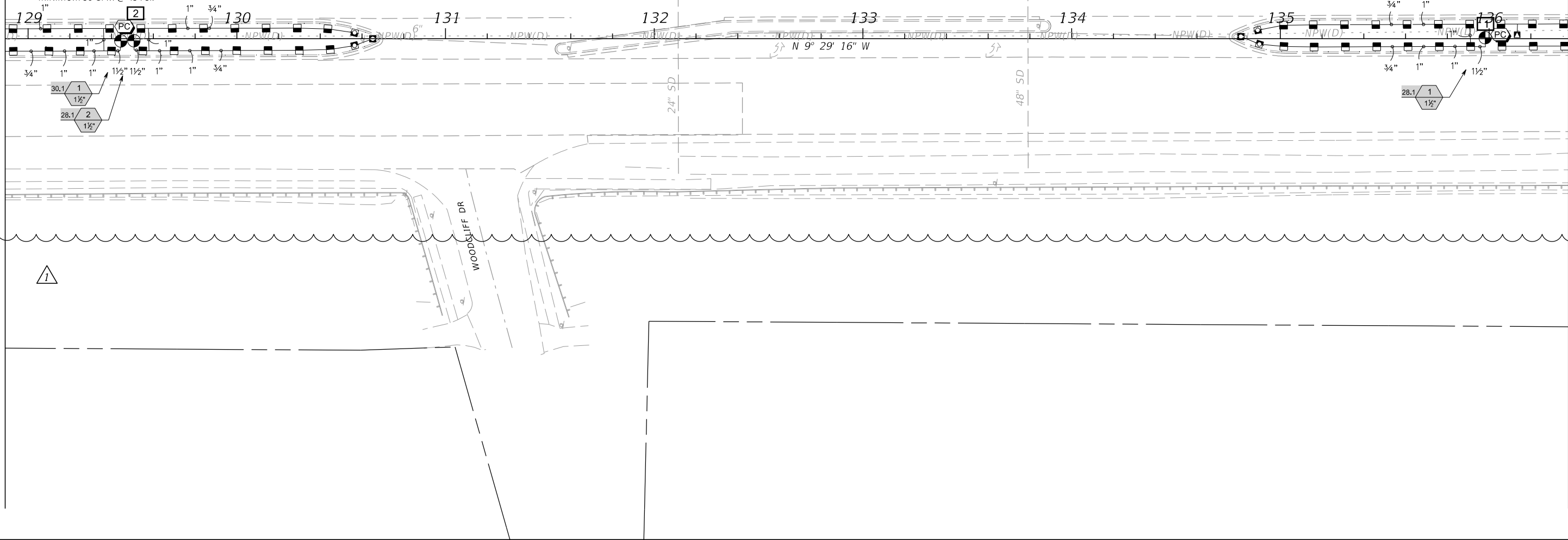


MATCHLINE - SEE SHEET LD-34

MATCHLINE - SEE SHEET LD-36

LOCATE EXISTING VALVE'S IN MEDIAN AND  
CONNECT TO EXISTING 2" MAINLINE.  
VERIFY POINT OF CONNECTION PROVIDED A  
MINIMUM 30 GPM @ 45 PSI.

LOCATE EXISTING VALVE'S IN MEDIAN AND  
CONNECT TO EXISTING 2" MAINLINE.  
VERIFY POINT OF CONNECTION PROVIDED A  
MINIMUM 30 GPM @ 45 PSI.



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH			SR 5A	VOLUSIA	437855-1-58-01	LD-35

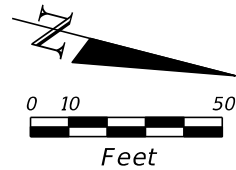
GLENDON M. HERBERT, R.L.A.  
#LA0000324  
GAI CONSULTANTS, INC.  
618 E. SOUTH ADOLENDON #12001  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION EB9951

ADDENDUM #12001  
PAGE - 40  
TB 0318-2240 - 10/31/2018

IRRIGATION PLAN

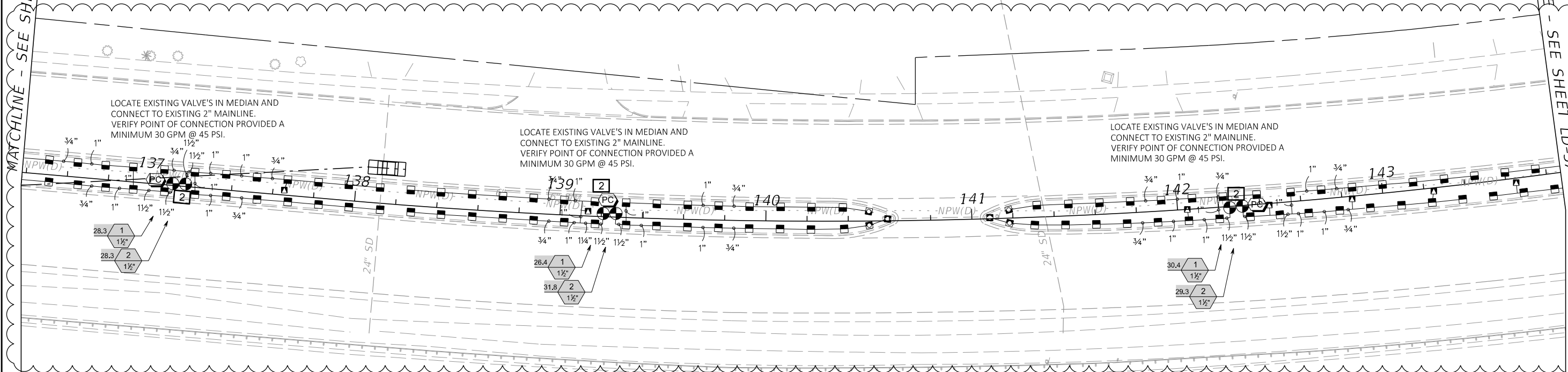
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.





MATCHLINE - SEE SHEET LD-35

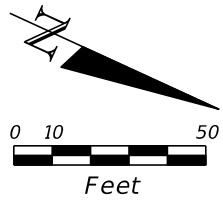
MATCHLINE - SEE SHEET LD-37



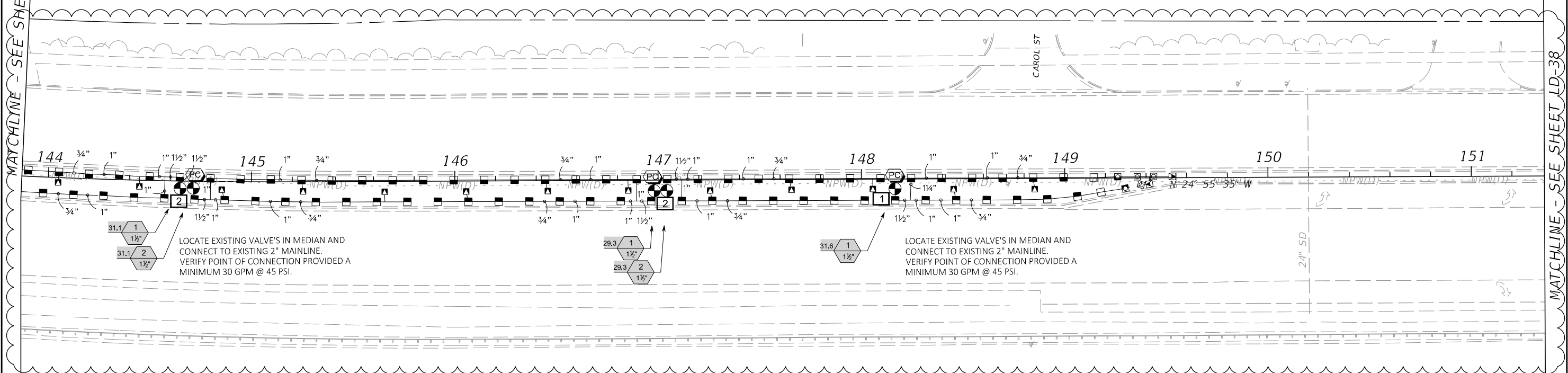
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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-36

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



MATCHLINE - SEE SHEET LD-36



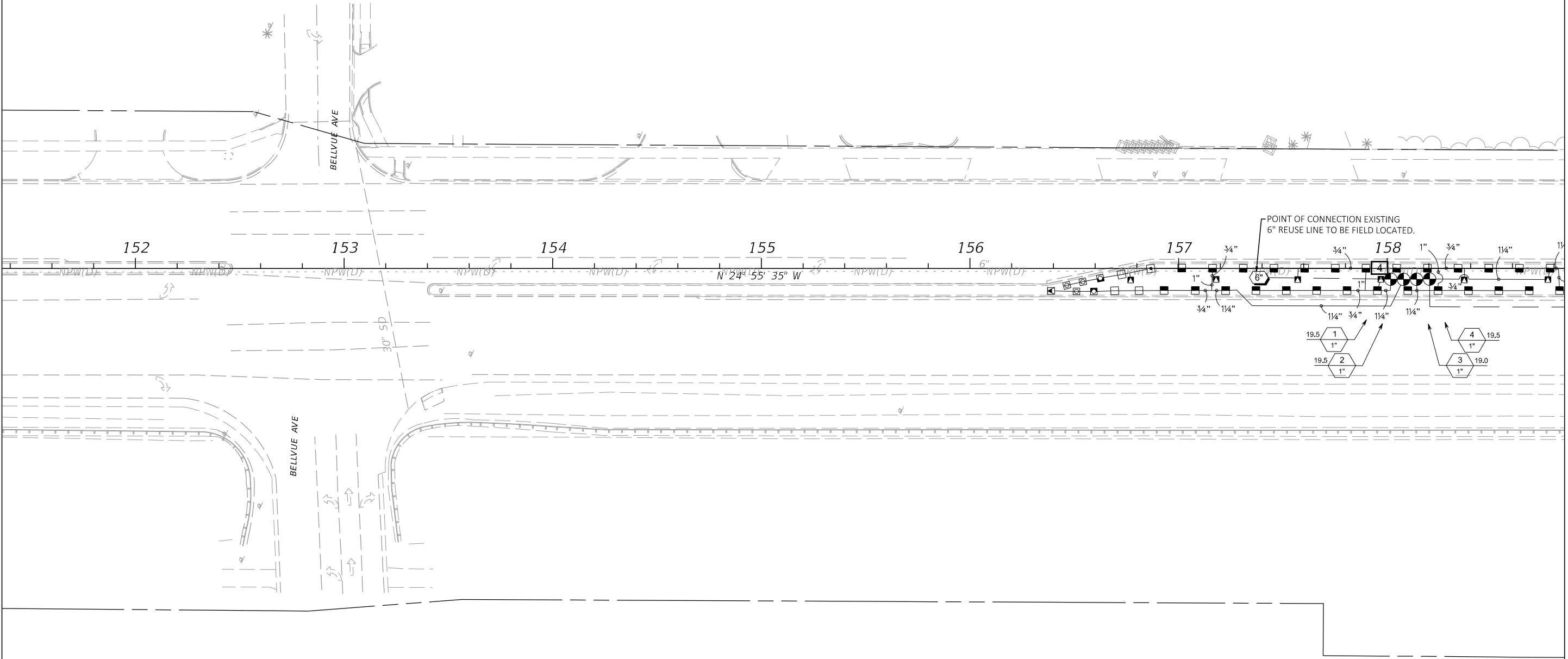
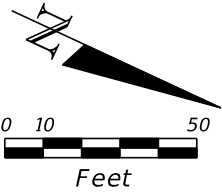
MATCHLINE - SEE SHEET LD-38

1

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-37

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-37

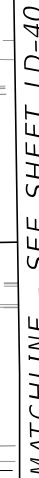


MATCHLINE - SEE SHEET LD-39

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-38

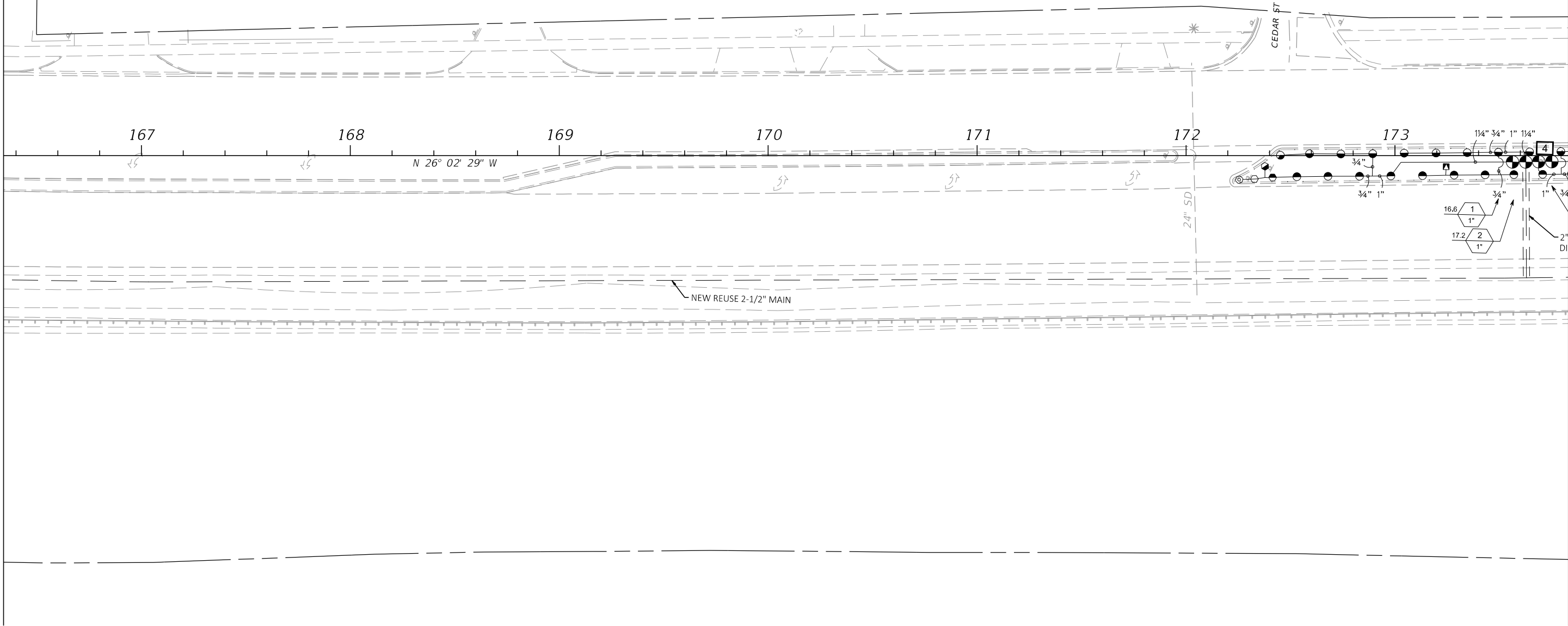
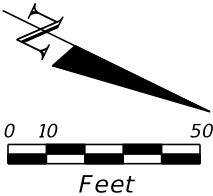
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.





NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

MATCHLINE - SEE SHEET LD-39

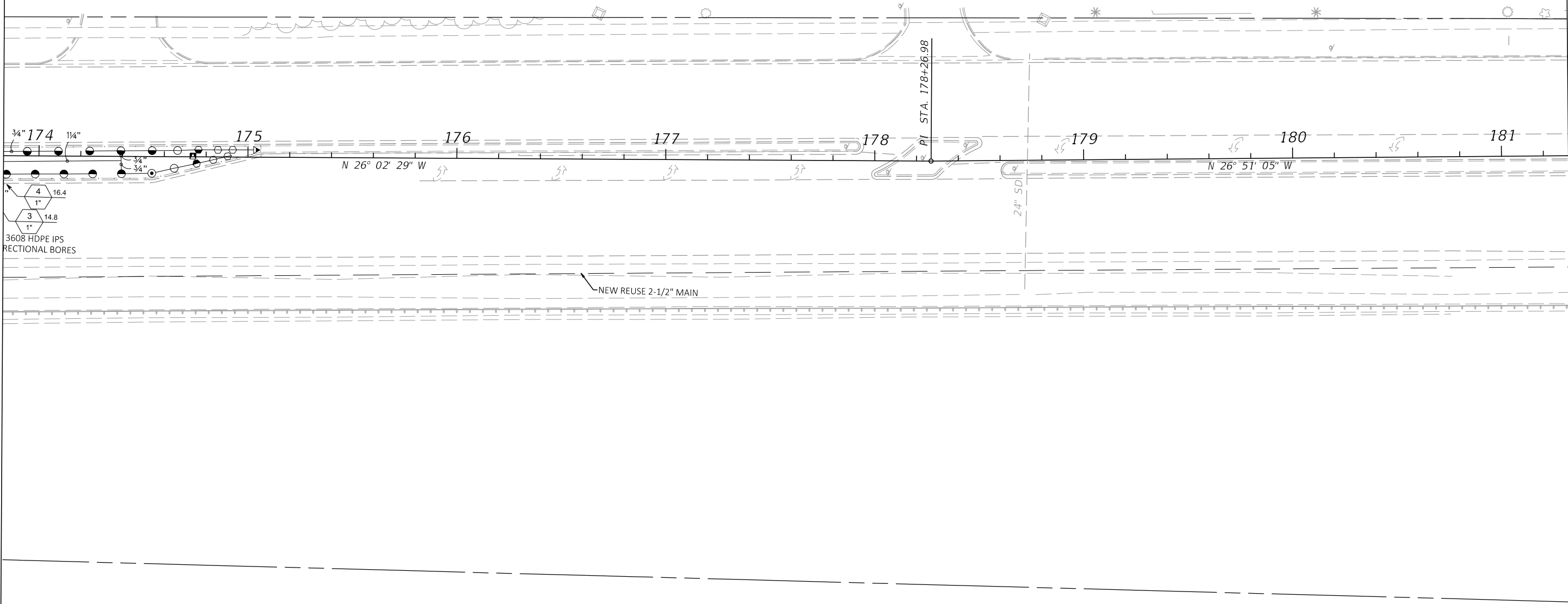
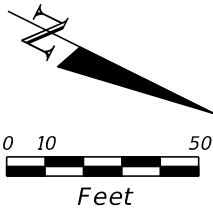


MATCHLINE - SEE SHEET LD-41

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-40

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-40

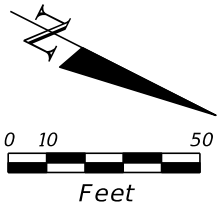


MATCHLINE - SEE SHEET LD-42

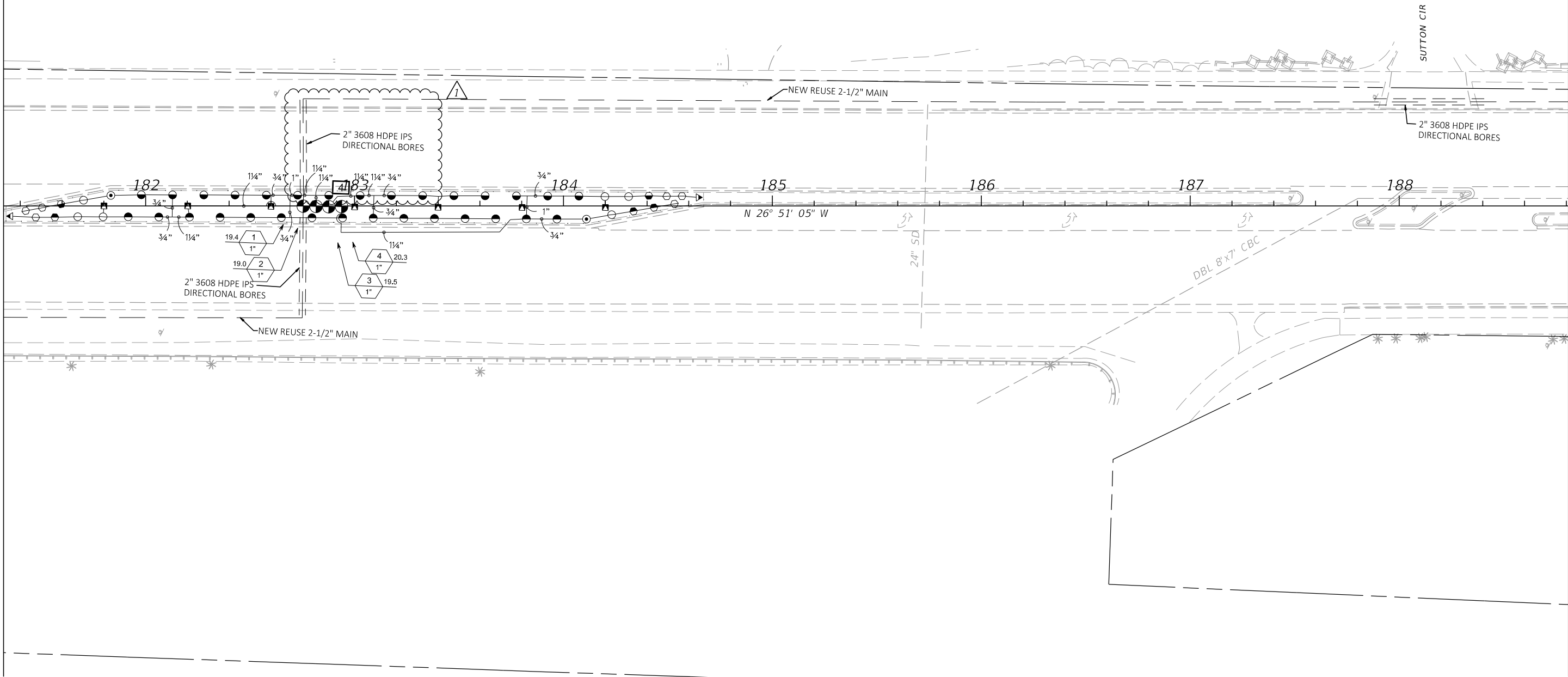
REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-41

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.





MATCHLINE - SEE SHEET LD-41

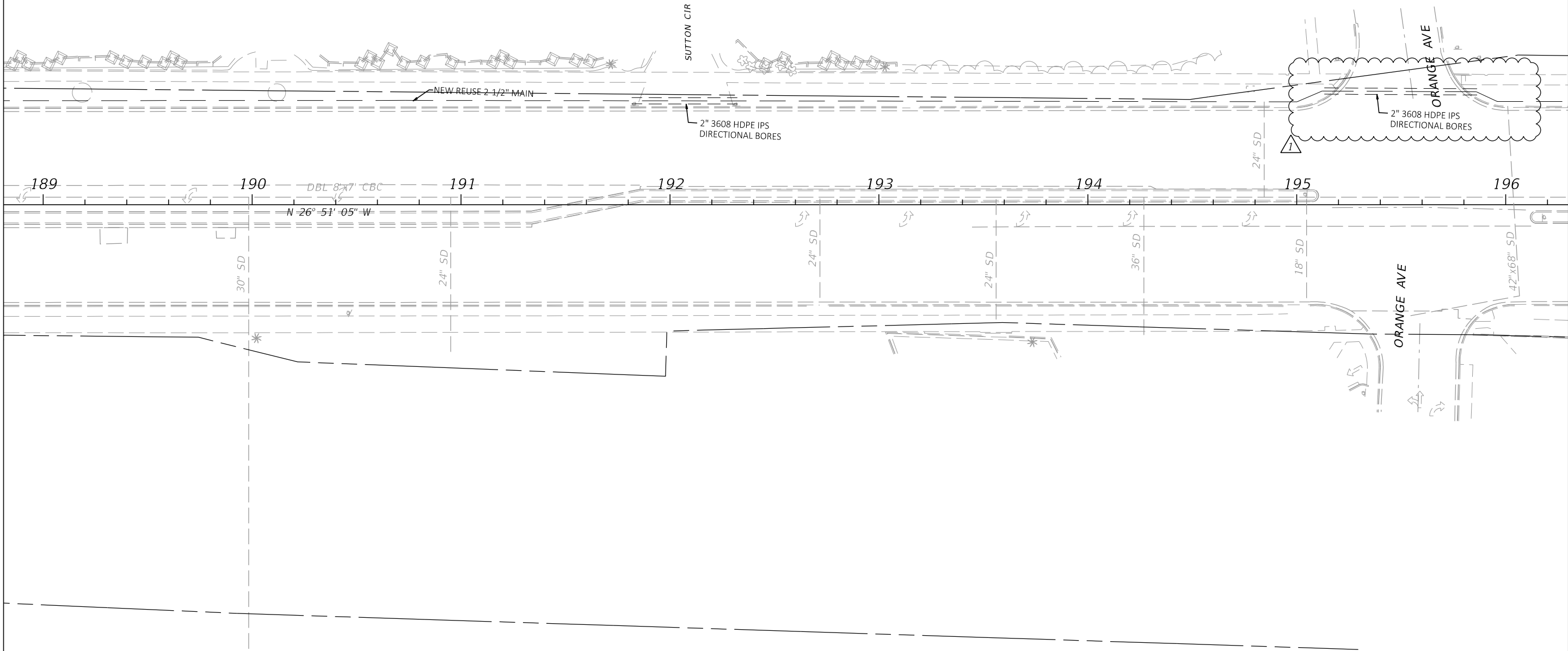
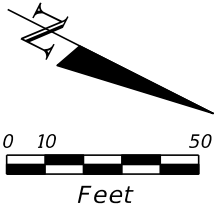


MATCHLINE - SEE SHEET LD-43

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ARLINGTON ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		LD-42

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

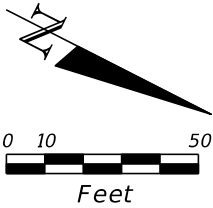
MATCHLINE - SEE SHEET LD-42



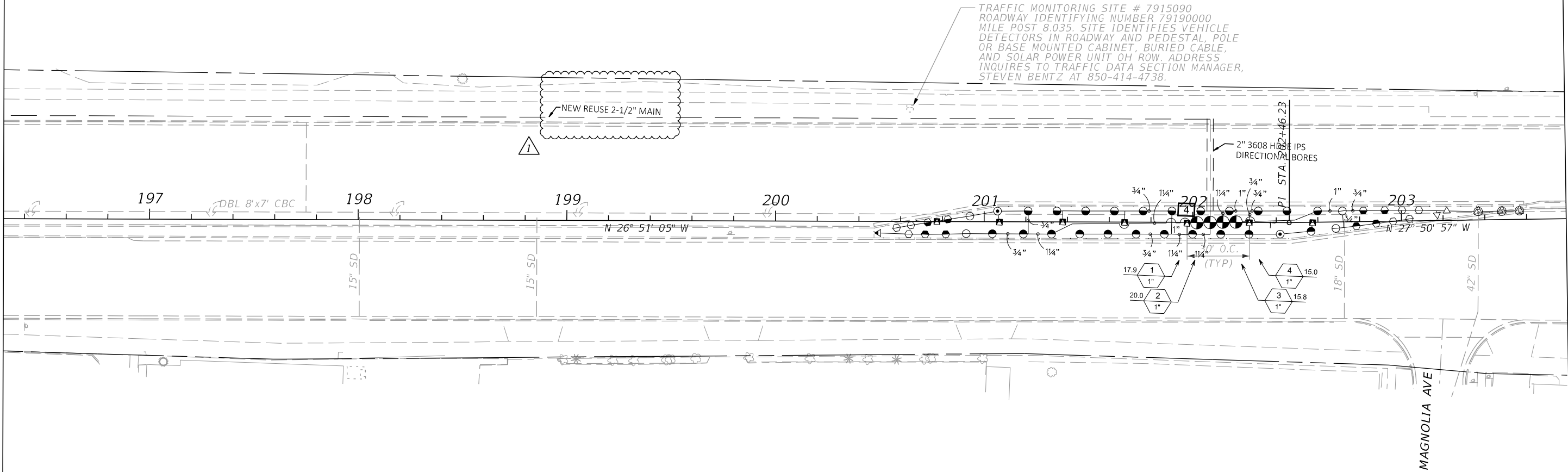
MATCHLINE - SEE SHEET LD-44

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-43
10/01/18	<div><div>1</div>CHANGES PER CITY OF DAYTONA BEACH</div>				SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



MATCHLINE - SEE SHEET LD-43

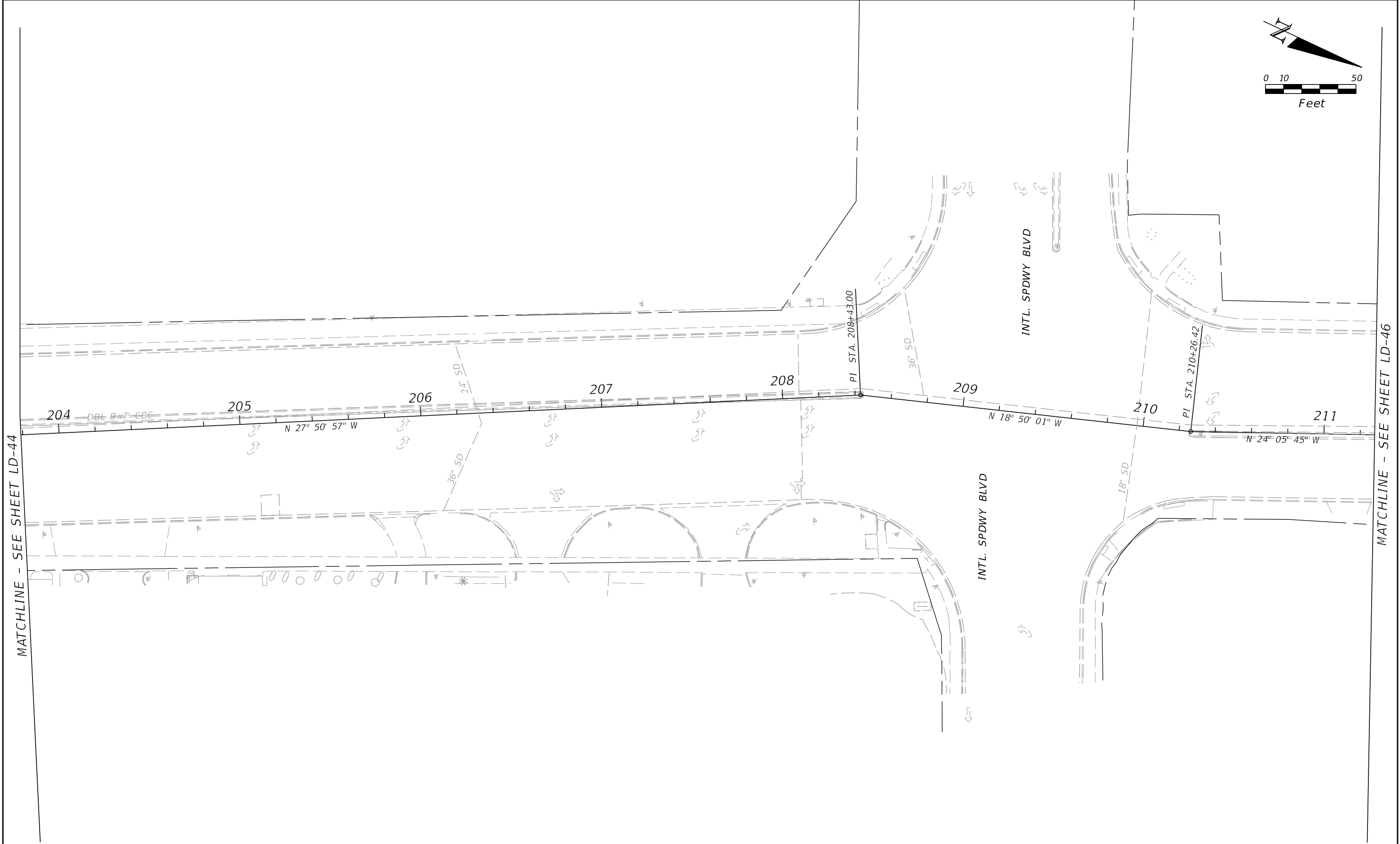


MATCHLINE - SEE SHEET LD-45

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-44

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

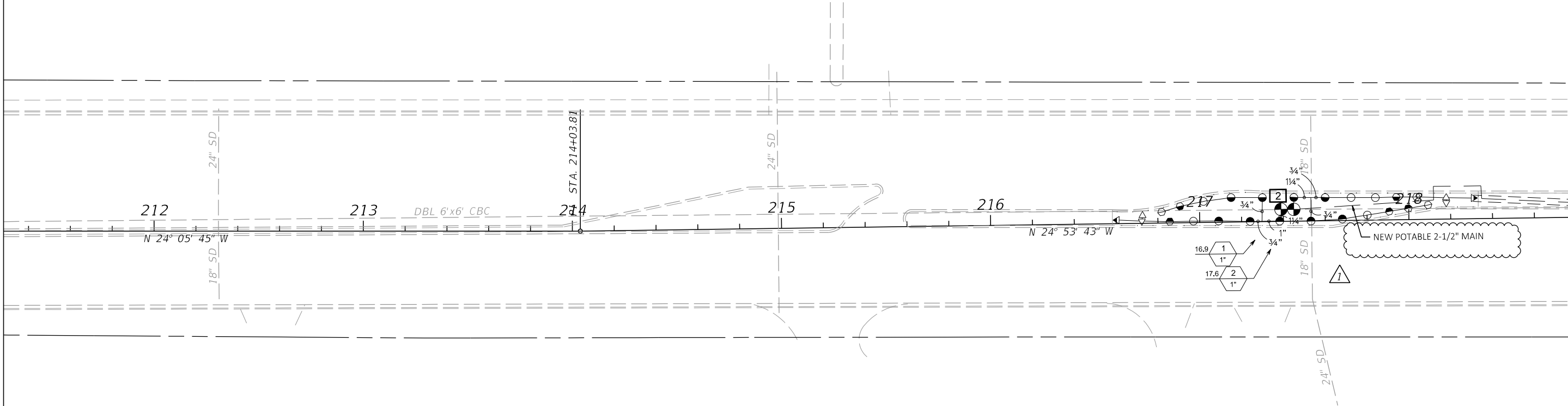
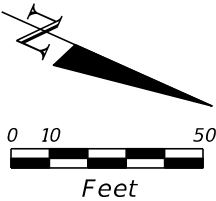





REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-45

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

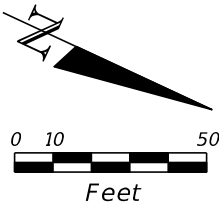
MATCHLINE - SEE SHEET LD-45



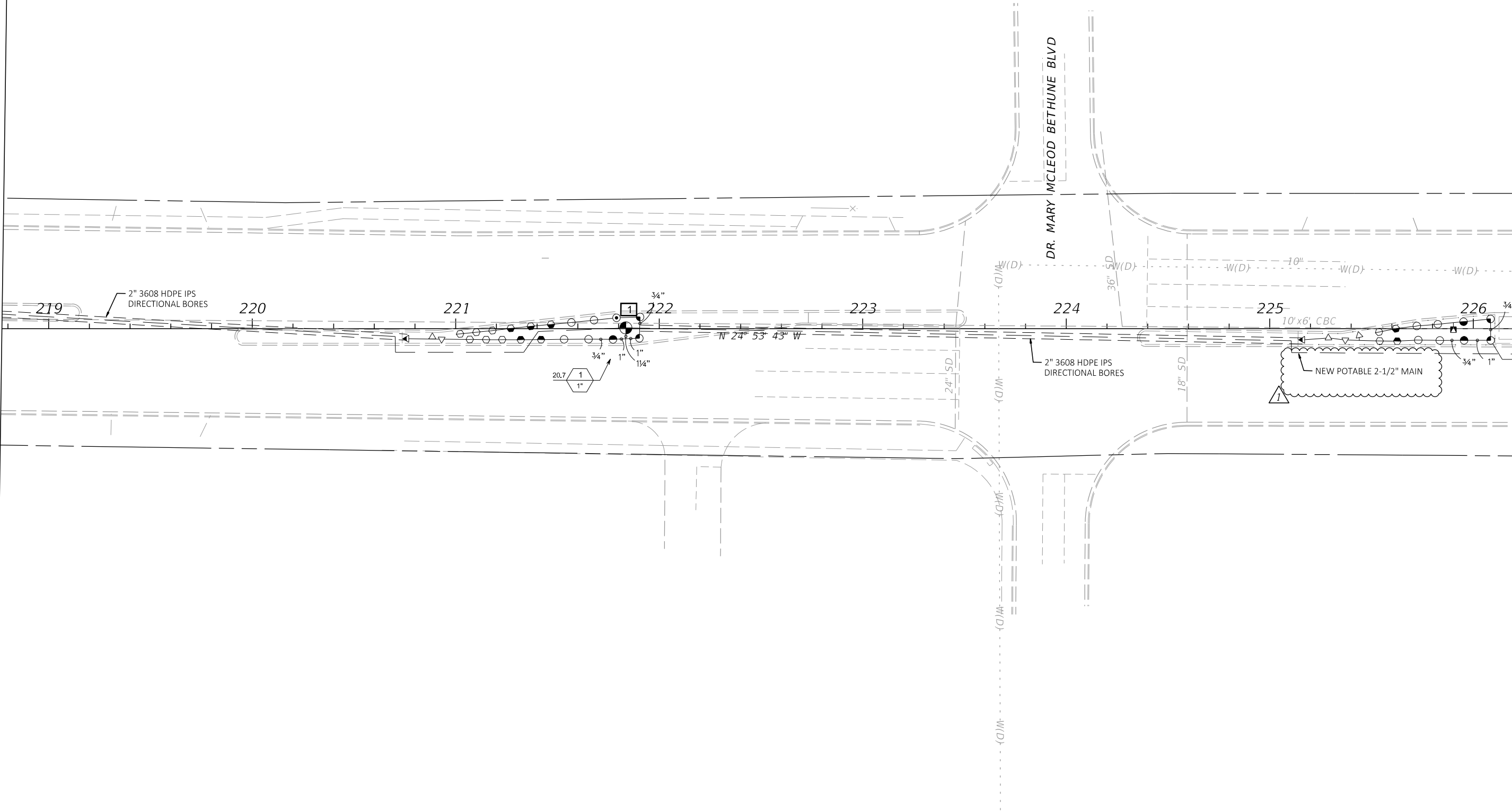
MATCHLINE - SEE SHEET LD-47

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.  LD-46
DATE	DESCRIPTION	DATE	DESCRIPTION						
10/01/18	 CHANGES PER CITY OF DAYTONA BEACH				ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		


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MATCHLINE - SEE SHEET LD-46



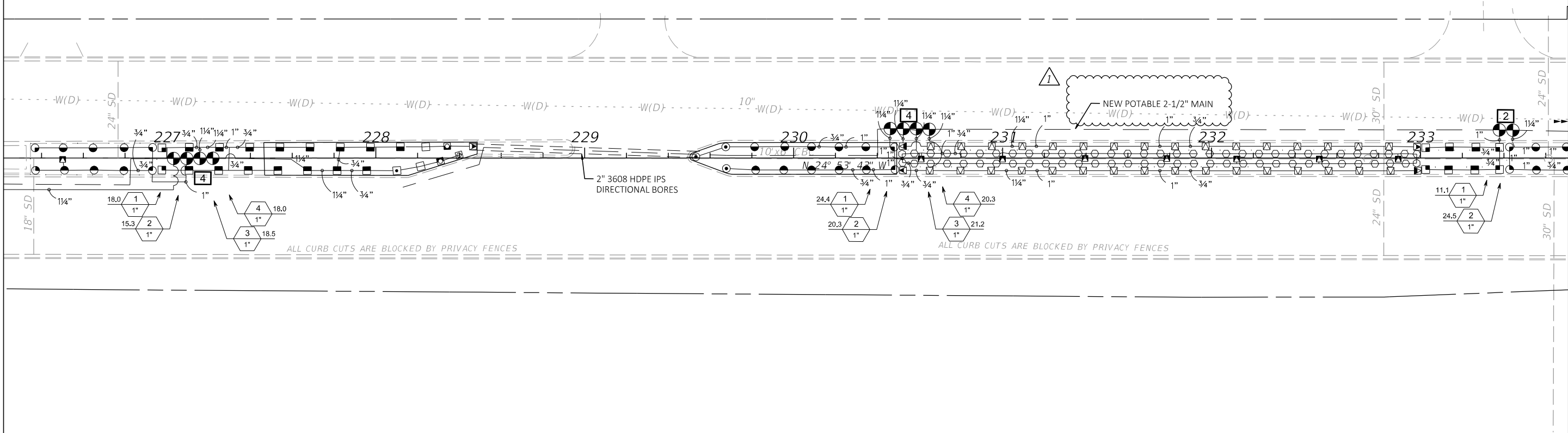
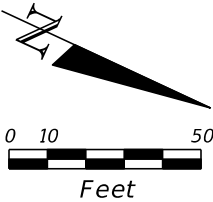
MATCHLINE - SEE SHEET LD-48

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON ST. ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	 CHANGES PER CITY OF DAYTONA BEACH				AD-12001-10318-2210-103172018	SR 5A	VOLUSIA	437855-1-58-01	LD-47

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



MATCHLINE - SEE SHEET LD-47

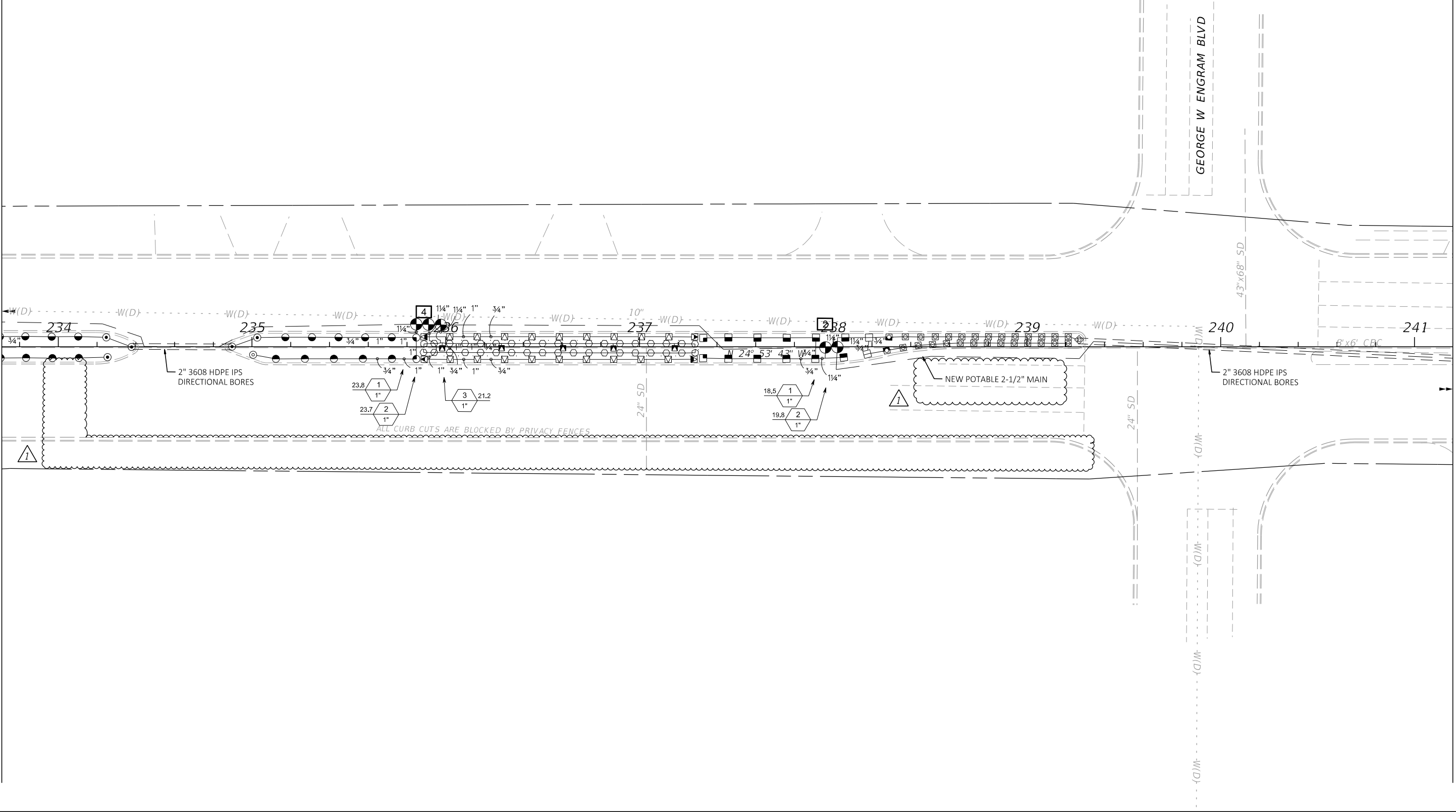
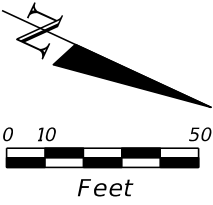


MATCHLINE - SEE SHEET LD-49

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-48

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-48

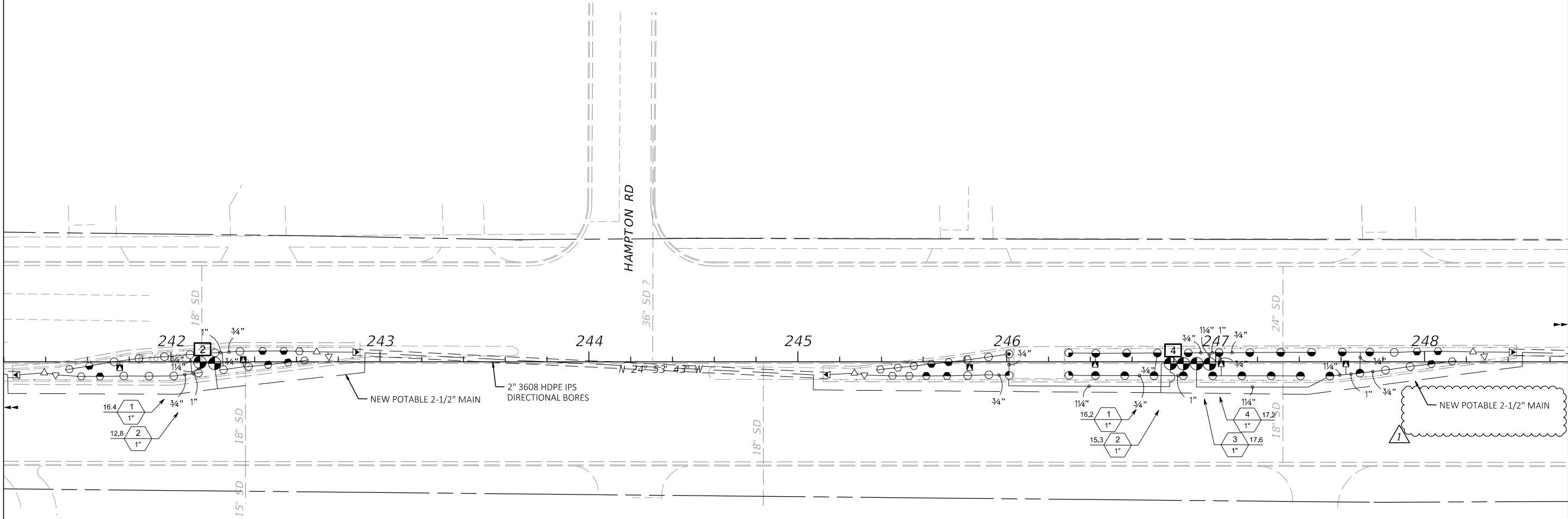
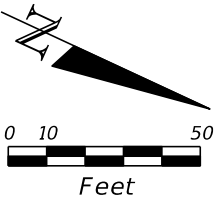


MATCHLINE - SEE SHEET LD-50


REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELSON #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-49
10/01/18	<div><div>1</div>CHANGES PER CITY OF DAYTONA BEACH</div>				SR 5A	VOLUSIA	437855-1-58-01		

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MATCHLINE - SEE SHEET LD-49

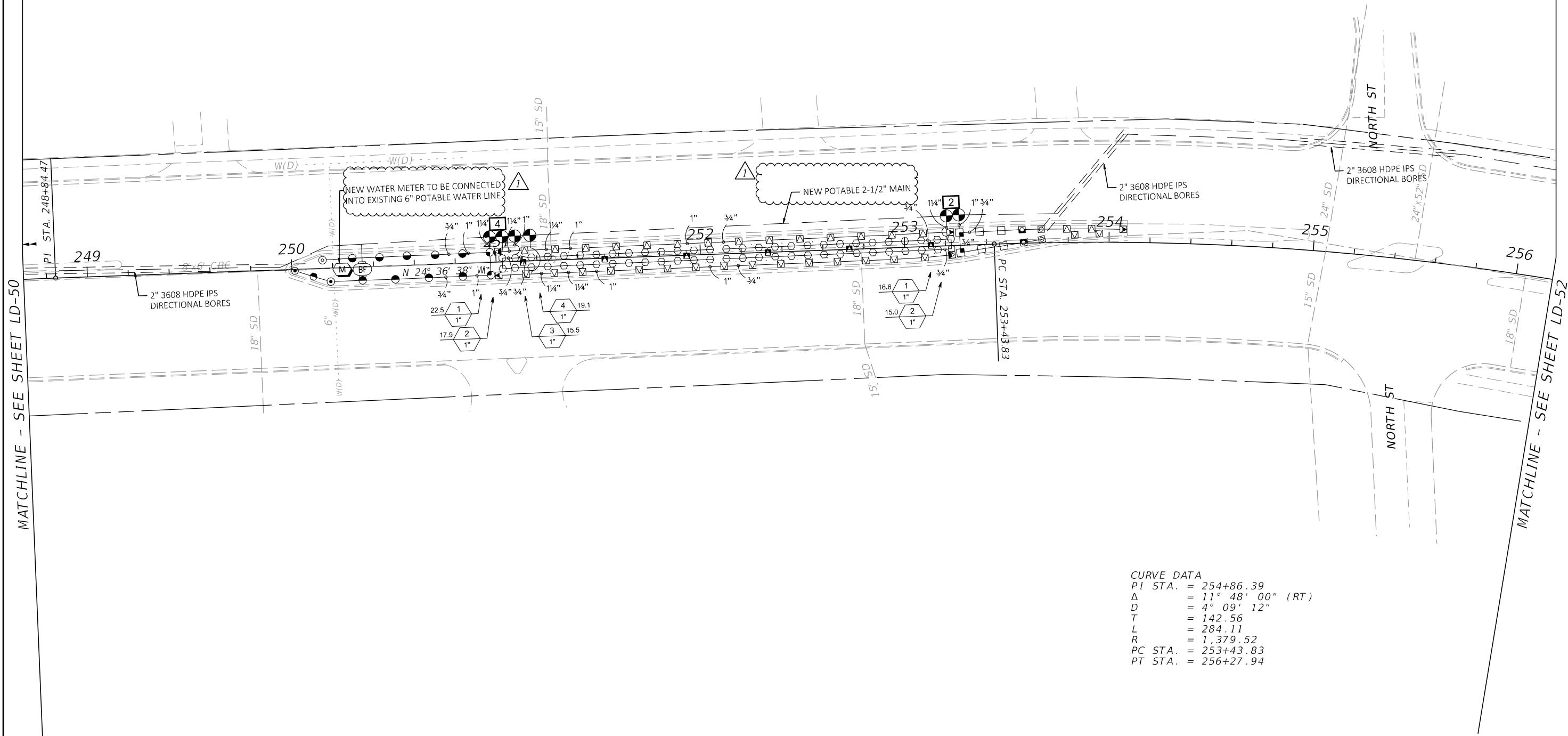
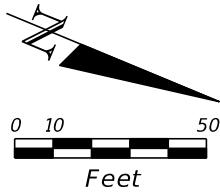


MATCHLINE - SEE SHEET LD-51

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADELMONTH #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		LD-50

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



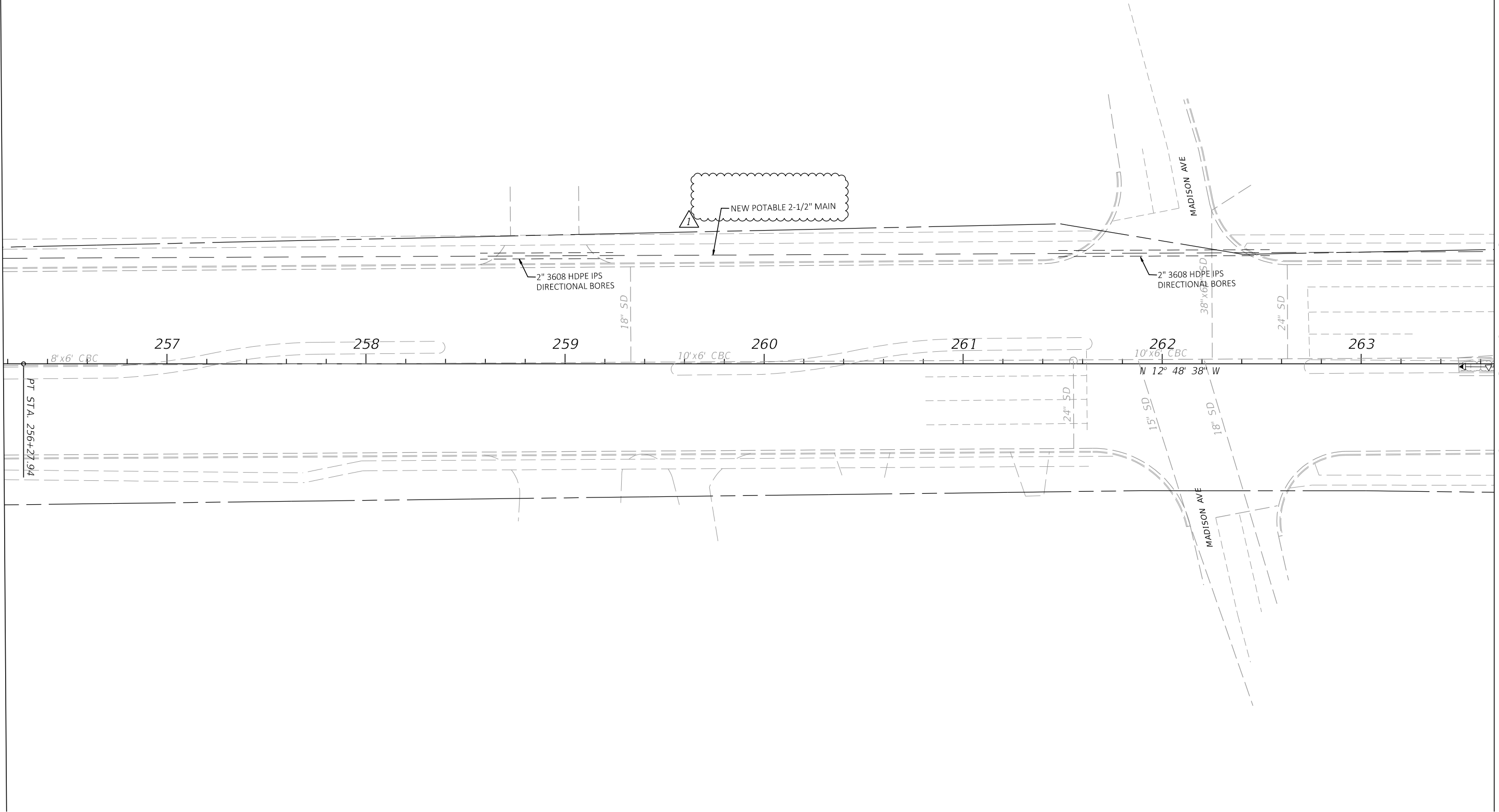
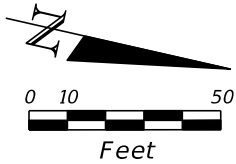


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D = 4° 09' 12"  
T = 142.56  
L = 284.11  
R = 1,379.52  
PC STA. = 253+43.83  
PT STA. = 256+27.94

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVENUE, SUITE 1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-51
10/01/18	1 CHANGES PER CITY OF DAYTONA BEACH				SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-51



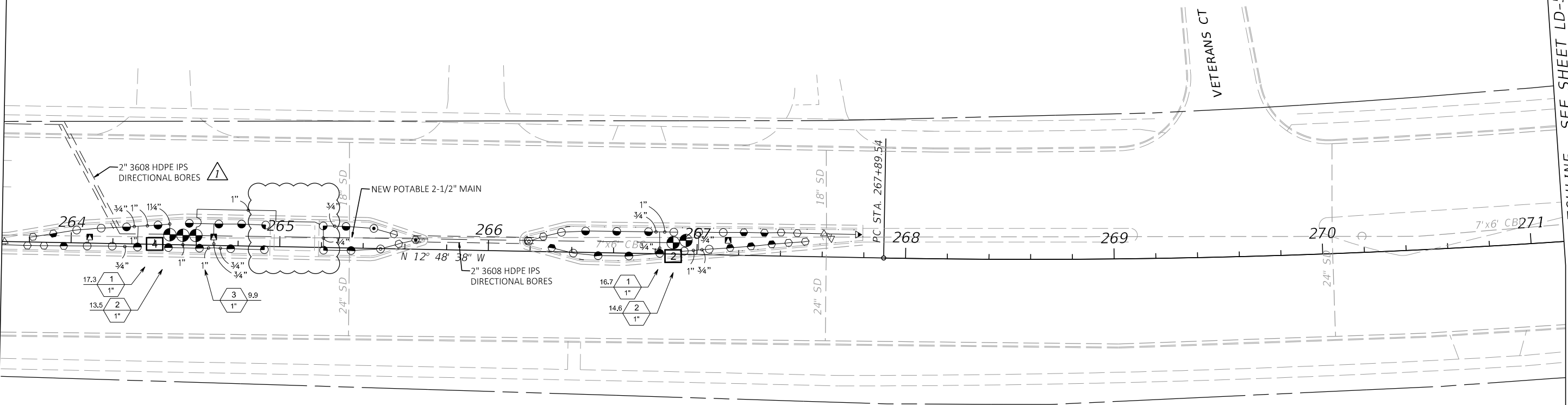
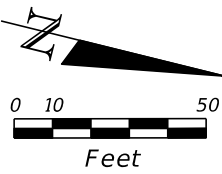
MATCHLINE - SEE SHEET LD-53

NO IRRIGATION THIS SHEET

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-52
10/01/18	<div><div>1</div>CHANGES PER CITY OF DAYTONA BEACH</div>				ADDITIONAL 12001 TB 0318-2240 - 10/31/2018 PAGE - 57	SR 5A	VOLUSIA	437855-1-58-01	

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MATCHLINE - SEE SHEET LD-52



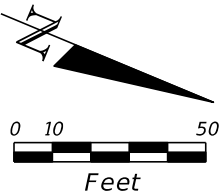
CURVE DATA  
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T = 289.29  
L = 577.46  
R = 3,801.97  
PC STA. = 267+89.54  
PT STA. = 273+67.00

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ARLINGTON ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
10/01/18	<div><div>1</div>CHANGES PER CITY OF DAYTONA BEACH</div>				ADDITIONAL 12001TB 0318-2240 - 10/31/2018 PAGE - 58 EB9951	SR 5A	VOLUSIA	437855-1-58-01	LD-53

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



MATCHLINE - SEE SHEET LD-53



END PROJECT  
STA 273+67.00  
MP 9.415

DESIGN  
SPEED  
45 MPH

272

273

PT STA. 273+67.00

MASON AVE

27"x43" SD

10"x6" CBC

MASON AVE

18"x36" SD

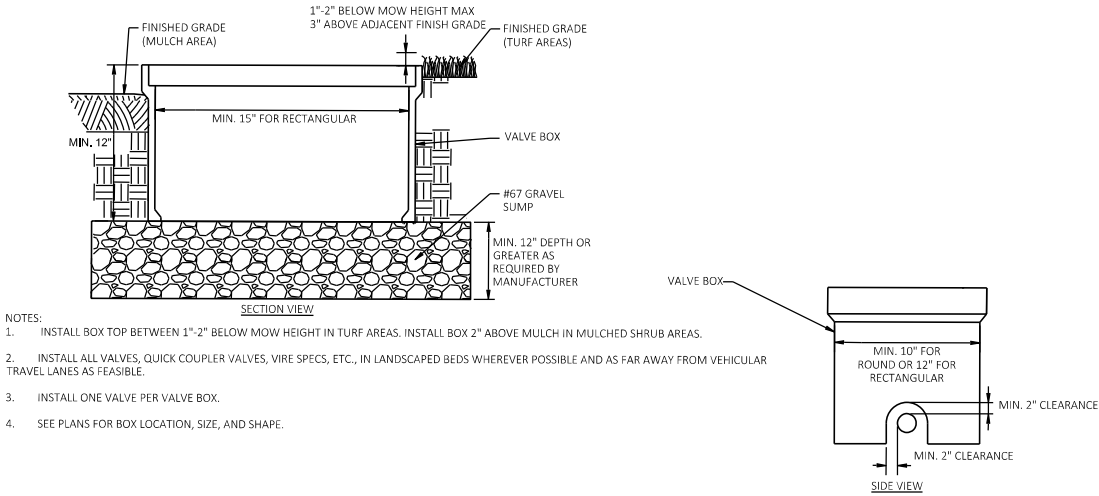
CURVE DATA  
PI STA. = 270+78.83  
Δ = 8° 42' 08" (LT)  
D = 1° 30' 25"  
T = 289.29  
L = 577.46  
R = 3,801.97  
PC STA. = 267+89.54  
PT STA. = 273+67.00

NO IRRIGATION THIS SHEET

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH AVE. #1200 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-54
					SR 5A	VOLUSIA	437855-1-58-01		

IRRIGATION PLAN

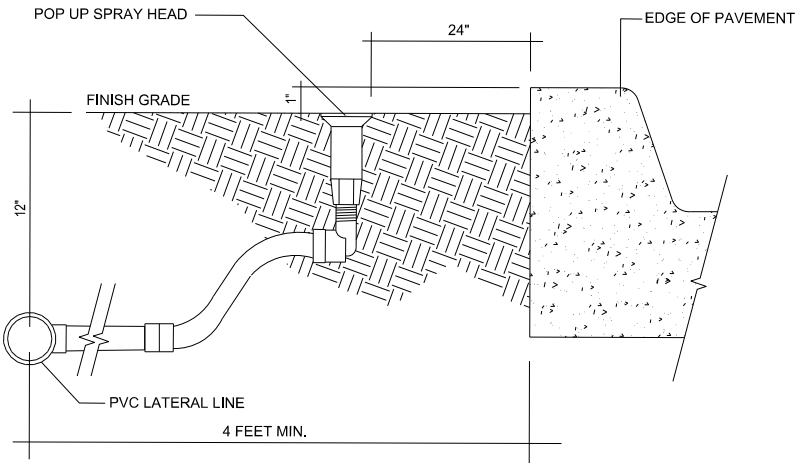
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



- NOTES:
1. INSTALL BOX TOP BETWEEN 1'-2" BELOW MOW HEIGHT IN TURF AREAS. INSTALL BOX 2" ABOVE MULCH IN MULCHED SHRUB AREAS.
  2. INSTALL ALL VALVES, QUICK COUPLER VALVES, VIRE SPECS, ETC., IN LANDSCAPED BEDS WHEREVER POSSIBLE AND AS FAR AWAY FROM VEHICULAR TRAVEL LANES AS FEASIBLE.
  3. INSTALL ONE VALVE PER VALVE BOX.
  4. SEE PLANS FOR BOX LOCATION, SIZE, AND SHAPE.

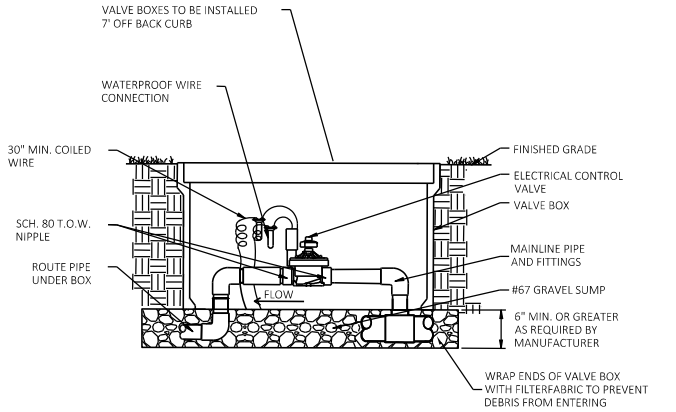
VALVE BOX DETAIL

SCALE: NTS



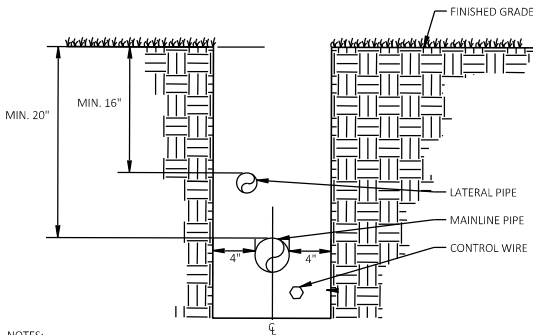
IRRIGATION HEAD INSTALLATION NEXT TO ROADWAY

SCALE: NTS



ELECTRONIC CONTROL VALVE

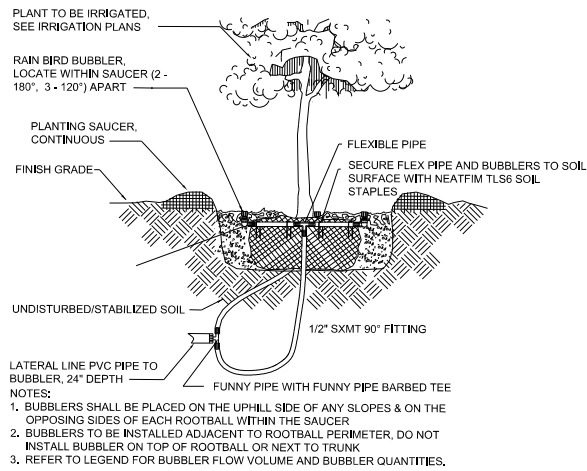
SCALE: NTS



- NOTES:
1. ALL TRENCHING TO BE OUTSIDE OF EXISTING TREE DRIP LINE.
  2. NO ROCKS, BOULDERS, OR SHAPR OBJECTS TO BE IN TRENCH BACKFILL.
  3. ALL PIPE TO BE INSTALLED AS RECOMMENDED BY MANUFACTURER.
  4. AT EACH CHANGE IN MAINLINE DIRECTION INSTALL A 30" LOOP OF EXTRA WIRE.
  5. BUNDLE WIRE WITH ELECTRICAL TAPE EVERY 10'.

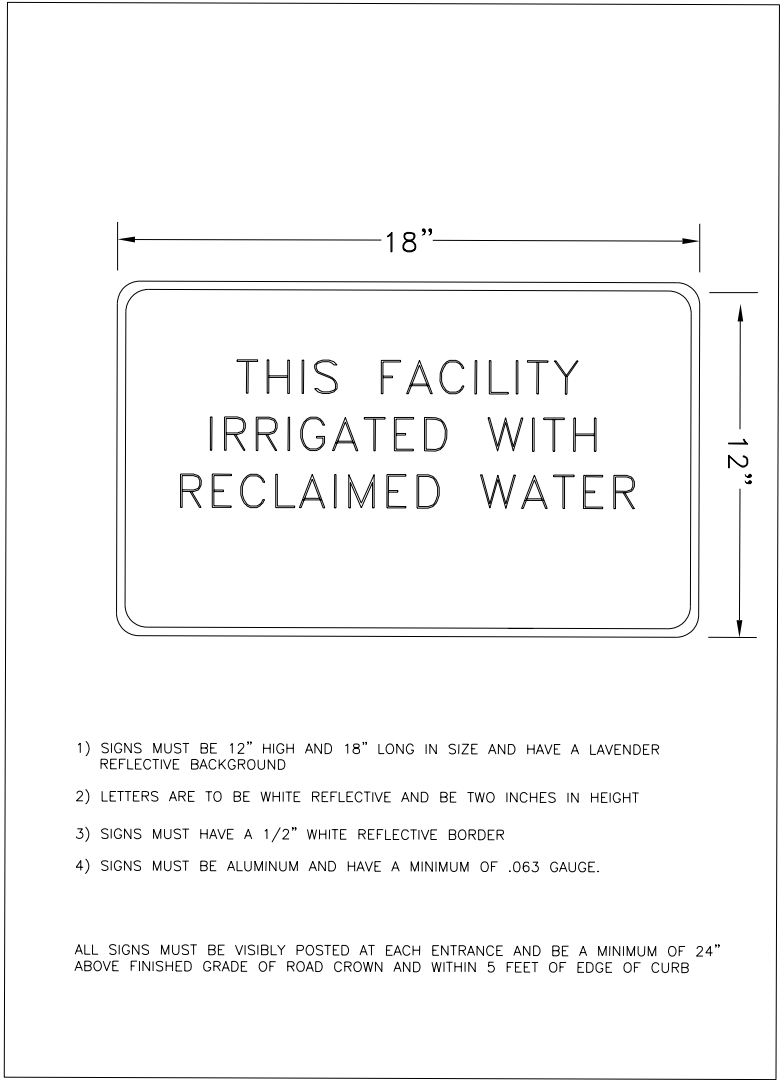
TRENCH, PIPE, AND WIRE DETAIL

SCALE: NTS



BUBBLER INSTALLATION

SCALE: NTS



- 1) SIGNS MUST BE 12" HIGH AND 18" LONG IN SIZE AND HAVE A LAVENDER REFLECTIVE BACKGROUND
- 2) LETTERS ARE TO BE WHITE REFLECTIVE AND BE TWO INCHES IN HEIGHT
- 3) SIGNS MUST HAVE A 1/2" WHITE REFLECTIVE BORDER
- 4) SIGNS MUST BE ALUMINUM AND HAVE A MINIMUM OF .063 GAUGE.

ALL SIGNS MUST BE VISIBLY POSTED AT EACH ENTRANCE AND BE A MINIMUM OF 24" ABOVE FINISHED GRADE OF ROAD CROWN AND WITHIN 5 FEET OF EDGE OF CURB

SC-21

RECLAIMED WATER ADVISORY SIGN

SCALE: NTS

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH ADDENDUM #12001 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION DETAILS	SHEET NO.  LD-55
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

ATTACHMENT 2  
REVISED BID SCHEDULE (#4)

**REVISED BID SCHEDULE  
0318-2210  
NOVA ROAD MEDIAN LANDSCAPE**

<b>SR5A (Nova Road) Median Landscaping Project (REVISED # 4)</b>					
<b>BASE BID</b>	<b>PAY ITEM DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
101-1	Mobilization	1	LS	\$	\$
101-2	Maintenance of Traffic	1	LS	\$	\$
104-10-3	Sediment Barrier	1	LS	\$	\$
110-1-1	Clearing and Grubbing	1	LS	\$	\$
DB-1	Irrigation System, Complete (including sod repair)	1	LS	\$	\$
580-1-1	LANDSCAPE COMPLETE - SMALL PLANTS				
	Parson's Juniper (Juniperus 'Parsonii') (3-gal., full, 24" spread)	5,575	EA	\$	\$
	Society Garlic (Tulbaghia Violacea) (1-gal., Min. 6-8 PPP, 15" spread)	7,686	EA	\$	\$
	Perennial Peanut (Arachis glabrata) (Flat, 12" spread)	5,629	EA	\$	\$
	European Fan Palm (Chamaerops humilis) (B&B, 2-3 Stems, 4' HT x 4' spread)	6	EA	\$	\$
580-1-2	LANDSCAPE COMPLETE - LARGE PLANTS				
	Lavender Crape Myrtle (Lagerstroemia Indica 'Muskogee') (100 gal., container grown, single stem, 3' cal., 8' C.T., 14' O.A. Standard)	32	EA	\$	\$
	Ligustrum Tree (Ligustrum Japonicum) (full, symmetrical, 5' C.T., 11' HT x 11' spread)	27	EA	\$	\$
	Paurolis Palm (Acroelornaphne vvrnhtii) (5-7 stems staggered heights, cleaned up, 15-20' O.A.)	24	EA	\$	\$
	TOTAL BASE BID				\$
ALT BID 1	Plantings - One Year Establishment Period	1	LS	\$	\$
	TOTAL ALT BID 1				\$