

ADDENDUM NUMBER 2
ITB 16-ES-002 - US HWY #1 AND SR #442 FDOT LANDSCAPE BEAUTIFICATION PROJECT
CITY OF EDGEWATER

To All Plan Holders:

The following changes, clarification and additions are hereby made part of the **ITB 16-ES-002** - for the above **US HWY #1 AND SR #442 FDOT LANDSCAPE BEAUTIFICATION PROJECT** as fully and completely as if the same were fully set forth therein.

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**CLARIFICATIONS/LANGUAGE CHANGES**

Page 5 - Section 2 - General Description of Specifications or Scope of Work it states that the City is seeking a qualified and licensed State of Florida contractor to complete the project. For this project **bidders must be an FDOT prequalified landscape contractor or must meet the criteria in the attached FDOT Landscape Contractor Qualifications document**. For convenience, below are links to the experience form (pdf & xlsx versions) referenced in the attachment.

<http://www2.dot.state.fl.us/proceduraldocuments/forms/informs/85007008.pdf>

<http://www2.dot.state.fl.us/proceduraldocuments/forms/informs/85007009.xlsx>

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Q1. Page 18 of the “Joint Participation Agreement between FDOT and City of Edgewater” notes a project production schedule with a project completion of May of 2016. Please advise of a new project completion date.

A1. The City has received a time extension to the JPA through May 30, 2017. See attached.

Q2. Designer refers to “PC” as a point to connect to an (existing ?) 4” mainline in multiple areas, this implies that there is an existing 4” mainline, is this correct? There is “no” mainline shown to be installed on the drawings.

A2. Please see attached revised plans.

Q3. Also you are requesting 4” directional to connect the medians which would imply that there is no mainline existing and therefore one should be installed, yet none is show on the plans or listed on the irrigation schedule?

A3. Please see attached revised plans.

Q4. Listed on the bid tab “only” is 2,400 l.f. of 3” class 200 SDR 21 gasketed pvc, is this to be the mainline, why is it not shown on the plan specifically where it is to be installed? In what medians is the 3” to be installed and where does the water supply originate from?

A4. Please see attached revised plans.

Q5. There are at least (15) 4" directional bores shown to be installed on this plan, however, there are (2) 3" and (2) 1 ½ directional bores listed on the bid tab?

A5. Please see attached revised bid sheet.

Q6. The plans clearly do not identify the scope of the irrigation work to be completed fairly to all of the prospective bidders, there are many items unclear. I would suggest that a pre-bid meeting with the designer be held so that we can all understand what we are to irrigate, where our water source is and where the mainline and directionals are to be installed and what the correct sizing should be.

A6. Pre-Bid meeting was held on August 17, 2016. Please see attached revised plans and bid sheet.

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**ATTACHMENTS**

- FDOT Landscape Contractor Qualifications
- FDOT Time Extension Letter
- Revised Landscape Plans
- Revised Bid Sheet

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Signature acknowledges receipt and understanding of this addendum.

Name/Title

Date

FDOT LANDSCAPE CONTRACTOR QUALIFICATIONS

The LOCAL GOVERNMENT shall hire an FDOT Pre-qualified landscape contractor or the LOCAL GOVERNMENT may hire an experienced qualified contractor that has specific expertise and experience in the performance of **Roadway Landscape** projects. In order for the LOCAL GOVERNMENT to utilize an experienced qualified contractor and to submit a bid relying on an experienced qualified contractor, the following requirements must be provided to the DEPARTMENT by the LOCAL GOVERNMENT:

(a) The Experience form (FDOT form number 850-070-09) must be filled out and submitted with the bid to the LOCAL GOVERNMENT. The form must be signed by the Owner or an Officer of the Company and dated and must reflect the following experience and credentials.

(1) At least five (5) complete years of experience in the performance of **Roadway Landscape** projects or the company Superintendent must have at least five (5) years of like experience as a Superintendent.

(2) The contractor must also provide independent written endorsements from two (2) separate Florida Registered Landscape Architects on company letterhead. These endorsements shall attest to the Florida Registered Landscape Architect's support of the contractor's skills, efficiency, and competence. Each Florida Registered Landscape Architect shall sign the endorsement, provide their license number, and include the following:

(i) Project name with a brief description that evaluates the landscape work performance.

(ii) Location of the project (city, state).

(iii) Professional substantiation of the contractor's skills, efficiency, and competence.

(3) FDOT Prequalification in **Landscaping** can be substituted for the required work experience.



Florida Department of Transportation

**RICK SCOTT
GOVERNOR**

605 Suwannee Street
Tallahassee, FL 32399-0450

**JIM BOXOLD
SECRETARY**

May 18, 2016

Ms. Malecia J. N. Harris
Interim Deputy Director of Leisure Services
Grants/Project Coordinator
City of Edgewater
P.O. Box 100
1108 South Ridgewood Avenue
Edgewater, Florida 32132

**Re: Time Extension #1 – Joint Participation Agreement (JPA)
Landscaping Improvements on SR 5 (US 1) and SR 442
FM No. 435465-1-58-01
Contract No. ARU25**

Dear Ms. Harris:

The Department has approved an extension for the above referenced JPA contract with the City of Edgewater, until **May 31, 2017**. The delay in the project was due to a design variance and the plan review process. Although the design variance has been approved, additional time is needed for final approval of the plans, subsequent bidding, and the installation processes associated with the project.

If you have any questions or concerns, please contact Myra Picallo at 386-943-5545.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mario Bizzio". The signature is fluid and cursive, written over a light blue horizontal line.

for

Mario Bizzio, P.E.
District Program Manager
District 5

cc: Vince Vacchiano, Construction Manager
Denise Lipscomb, Financial Services Manager



Florida Department of Transportation

719 S. Woodland Blvd.
Deland, FL 32720

RICK SCOTT
GOVERNOR

ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

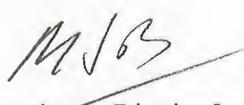
DATE: July 17, 2015

TO: Whom It May Concern

COPY: D5 Department Heads

FROM: Mario Bizzio, P.E. – District Program Management Engineer, District 5

SUBJECT: Delegation of Signature Authority



Anytime during my absence from the District Office, I delegate signature authority only when necessary, to the following designees: Lisa Buscher, Steve Friedel, Joel Marmie P.E., Steve Smith, and/or Amir Asgarinik.

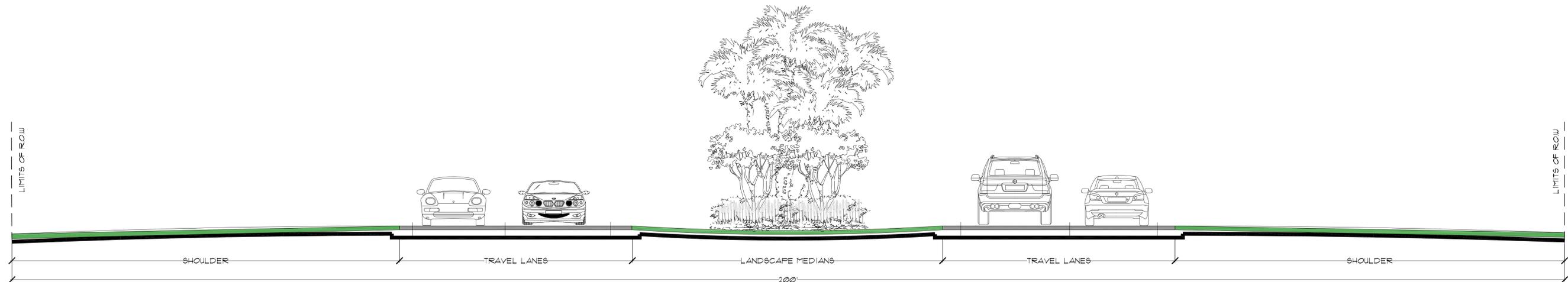
This authority is effective immediately and will stay in effect until June 30, 2016, unless modified or rescinded by me prior to this date. Any previous delegation is rescinded and replaced by this document.

US 1 AND SR442 FDOT LANDSCAPE BEAUTIFICATION

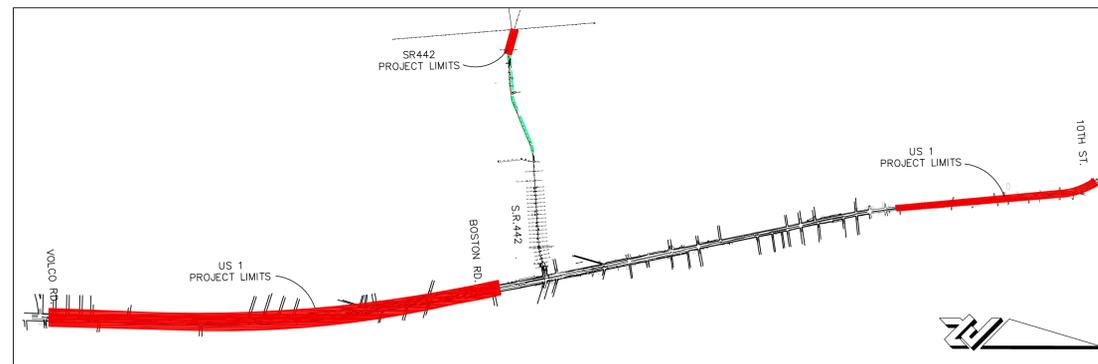


CITY OF EDGEWATER, VOLUSIA COUNTY, FLORIDA
LANDSCAPE PLANS
 (VOLCO RD. - BOSTON RD.) - 2 MILES
 (LAMONT ST. - 10th ST.) - 1 MILE
 (I-95 AND SR 442) - .5 MILES

FDOT FINANCIAL MANAGEMENT # 435465-1-58-01



MAYOR MICHAEL IGNASIAK
CITY MANAGER TRACEY BARLOW
PUBLIC WORKS DIRECTOR BRENDA DEWEES



CITY COMMISSION:
DISTRICT 1 : CHRISTINE POWER
DISTRICT 2 : GIGI BENNINGTON
DISTRICT 3 : DAN BLAZI
DISTRICT 4 : GARY CONROY

APPLICANT: CITY OF EDGEWATER
 104 N. RIVERSIDE DR.
 EDGEWATER, FLORIDA 32132
 (386) 424-2472
 CONTACT: BRENDA DEWEES,
 DIRECTOR OF PUBLIC WORKS
 & UTILITIES

LANDSCAPE ARCHITECT: ZEV COHEN & ASSOCIATES, INC.
 300 INTERCHANGE BLVD.
 ORMOND BEACH, FL., 32174
 (386) 677-2482
 (386) 677-2505 (FAX)
 CONTACT: STEVEN R. BURNS, RLA

US 1 SHEET INDEX:

- CVR COVER SHEET
- D1 LANDSCAPE NOTES & DETAILS
- D2 MAINTENANCE OF TRAFFIC PLANS
- LAYOUT LAYOUT SHEET - LANDSCAPE
- DEM DEMOLITION PLAN
- LA1 LANDSCAPE PLAN (MEDIANS 1A - 3A)
- LA2 LANDSCAPE PLAN (MEDIANS 3B - 5A)
- LA3 LANDSCAPE PLAN (MEDIANS 5B - 6A)
- LA4 LANDSCAPE PLAN (MEDIANS 6B - 9A)
- LA5 LANDSCAPE PLAN (MEDIANS 9B - 9C)
- LA6 LANDSCAPE PLAN (MEDIANS 9B - 9C)
- LA7 LANDSCAPE PLAN (MEDIANS 9B - 9C)
- LAYOUT LAYOUT SHEET - IRRIGATION
- IR1-1 IRRIGATION PLANS
- IR1-2 IRRIGATION PLANS
- IR1-3 IRRIGATION PLANS
- IR1-4 IRRIGATION PLANS
- IR1-5 IRRIGATION PLANS
- IR1-6 IRRIGATION PLANS
- IR1-7 IRRIGATION PLANS
- IR1-8 IRRIGATION PLANS NOTES & DETAILS
- IR1-9 IRRIGATION PLANS NOTES & DETAILS

US 1 CROSS SECTION - 200' R.O.W.

SR442 SHEET INDEX:

- D1-1 LANDSCAPE NOTES & DETAILS
- D2-1 MAINTENANCE OF TRAFFIC PLANS
- DEM-1 DEMOLITION PLAN
- LA1-1 LANDSCAPE PLAN
- LA2-1 LANDSCAPE PLAN
- IR1-1 IRRIGATION PLAN
- IR2-1 IRRIGATION PLAN NOTES & DETAILS
- IR3-1 IRRIGATION PLAN NOTES & DETAILS

GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, 2016
 DESIGN STANDARDS AND REVISED INDEX DRAWINGS
 AS APPENDED HEREIN, AND JANUARY 2016
 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
 CONSTRUCTION, AS AMENDED BY CONTRACT
 DOCUMENTS.

FOR "DESIGN STANDARDS" FOLLOW LINK BELOW:
[HTTP://WWW.DOT.STATE.FL.US/RDDESIGN/](http://www.dot.state.fl.us/RDDESIGN/)

FOR "STANDARD SPECIFICATIONS FOR ROAD AND
 BRIDGE CONSTRUCTION FOLLOW LINK BELOW:
[HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONS/OFFICE/](http://www.dot.state.fl.us/SPECIFICATIONS/OFFICE/)



ORMOND BEACH, FL 32174
 300 INTERCHANGE BLVD.
 (386) 677-2482 FAX: (386) 677-2505
 ST. AUGUSTINE, FL 32086
 4475 U.S. 1
 (386) 737-1610 FAX: (386) 737-4159
 AMELIA ISLAND, FL 32064
 84 ATLANTIC AVE.
 (386) 461-5468 FAX: (386) 461-4159

NO.	DATE	DESCRIPTION
1	2-4-15	REVISED PER CITY COMMENTS, DATED 2-4-15
2	4-4-15	REVISED PER FDOT COMMENTS, DATED 4-15-15
3	6-4-15	REVISED PER FDOT COMMENTS, DATED 6-20-15
4	12-18-15	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-15-16	REVISED PER FDOT COMMENTS, DATED 4-15-16

US 1 AND SR442 BEAUTIFICATION
 LANDSCAPE PLANS
 COVER SHEET

ZEV COHEN & ASSOCIATES, INC.
 CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
 PLANNERS - TRANSPORTATION - ENVIRONMENTAL
 WWW.ZEVCOHEN.COM
 PROJECT NO: 14021
 DRAFTED BY: AKS
 CHECKED BY: SRK/PM
 ISSUE DATE: 7-14-14
 DRAWING FILE: LAZILLA
 XREFS: H02TASE
 DESIGNED BY: PM

SCALE: N/A
 SHEET: CVR OF

GENERAL CONSTRUCTION NOTES

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE Vv, Vh, AND VvH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONTACT SUNSHINE ONE CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES.
UTILITY AGENCY/OWNER - TELEPHONE NUMBER
ELECTRIC - FLORIDA POWER & LIGHT, BEVERLY HUTTO (366) 922-3499
GAS - TELCO PEOPLES GAS, GEORGE SMITH (366) 671-2292
FIBER OPTIC CABLE - AT&T MICHAEL NOBLE (366) 254-8550
TELEPHONE - BRIGHT HOUSE, SEAN RYDEN (366) 740-9941
TRAFFIC MONITORING SITES- FDOT, CHERYL BURKE (366) 543-5260
VALUSIA COUNTY TRAFFIC ENGINEERING - (366) 796-5366
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH RULE CHAPTER 14-40, FLORIDA ADMINISTRATIVE CODE, THE FDOT 2016 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, THE JANUARY 2016 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION EDITION AND THE FDOT IUM 2010 EDITION CONTRACTOR TO FOLLOW ALL REQUIREMENTS OF CITY/FDOT JPA AND FDOT APPROVAL.
- CONTRACTOR TO PROVIDE EROSION AND SILTATION CONTROL MEASURES AND COORDINATED APPROVED BY FDOT AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED IN ACCORDANCE WITH SWRIWD, DEP NPDES, AND BEST MANAGEMENT PRACTICES (BMP'S) STANDARDS AND REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. CONTRACTOR TO OBTAIN DEP NPDES PERMIT, IF REQUIRED.
- ANY EXISTING STRIPING ON US1 DAMAGED BY THIS PROJECT MUST BE REPLACED.
- CONTRACTOR TO STAKE-OUT EACH MEDIAN FOR PLANT/TREE LOCATIONS FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR WILL BE RESPONSIBLE TO DO ANY GRADING WORK NECESSARY TO ASSURE PROPER DRAINAGE FLOW. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS, SWALES CONVEYANCE, AND RUNOFF STORAGE CAPACITY DURING AND POST CONSTRUCTION ACTIVITIES. THE EXISTING DRAINAGE STRUCTURES SHALL NOT BE OBSTRUCTED OR MODIFIED ANYTIME.
- IT IS THE RESPONSIBILITY OF THE CITY TO MAINTAIN THE PROPOSED PROJECT LIMIT AREAS IN ACCORDANCE WITH THE FDOT MAINTENANCE RATING PROGRAM STANDARDS (MRSP). REFER TO THEIR CRITERIA THROUGH THE LINK PROVIDED, <http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.shtm>. ALSO, REFER TO THE 'A' GUIDE FOR TREE, PALM MAINTENANCE FOR URBAN ROADSIDES AND LANDSCAPE AREAS.

LANDSCAPE NOTES

- FLORIDA #1: ALL PLANT MATERIAL SHALL BE GRADE FLORIDA NO 1 OR BETTER IN QUALITY AS DESIGNATED IN THE MOST RECENT PUBLICATION OF "GRADES AND STANDARDS FOR NURSERY PLANTS", PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- SOD: SOD SHALL BE ARGENTINE PAMPA GRASS UNLESS OTHERWISE SPECIFIED ON THE PLANS AS FLORATAM ST. AUGUSTINE. ALL SOD SHALL BE ROLLED. CONTRACTOR TO SOD ALL AREAS THAT ARE WITHIN MEDIANS WORKED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SOD IS FREE OF WEEDS UPON INSTALLATION AND FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL TURF AREAS SHALL BE SMOOTH AND FREE OF ANY TRACK RUTS OR OTHER UNSIGHTLY IMPRINTS CAUSED BY CONTRACTOR MACHINERY DURING CONSTRUCTION/INSTALLATION. ALL REPLACEMENT SOD SHALL BE FLORATAM ST. AUGUSTINE. ALL TURF AREAS SHALL BE SMOOTH AND FREE OF ANY TRACK RUTS OR OTHER UNSIGHTLY IMPRINTS CAUSED BY CONTRACTOR MACHINERY DURING CONSTRUCTION/INSTALLATION. ALL REPLACEMENT SOD SHALL BE ARGENTINE PAMPA.
- MULCH: ALL PLANTING BEDS SHALL BE TOP DRESSED WITH 9" PINE BARK MULCH, GRADE "B" OR BETTER. ALL TREES NOT IN BEDS SHALL HAVE A 5' DIAMETER MULCH RING.
- QUANTITIES: IN THE EVENT OF A VARIATION BETWEEN THE QUANTITIES SHOWN ON THE PLANT LISTS AND THE ACTUAL QUANTITY OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- UNFORESEEN CONFLICTS: CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PORTION OF THE LANDSCAPE PLAN AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, STANDING WATER, SOIL CONDITIONS OR OTHER CONFLICTS EXIST. SUCH UNFORESEEN CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SUBSTITUTIONS: NO SUBSTITUTIONS OR VARIATIONS OF ANY PLANT MATERIAL OR ITS INSTALLED LOCATION WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL FROM THE LANDSCAPE ARCHITECT.
- CONTAINERS: IF GALLONAGE FOR PLANTS OR TREES IS SHOWN THEY SHALL BE CONTAINER GROWN AND THE SIZE SHOWN SHALL REPRESENT THE MINIMUM ALLOWABLE GALLONAGE ACCEPTED. IN ALL CASES THE PLANT SPECIFIED SIZE SHALL GOVERN OVER THE GALLONAGE INDICATED.
- SOIL: CONTRACTOR SHALL VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO THE PLANT SPECIES SPECIFIED. IF SOIL CONDITIONS ARE DEEMED UNSUITABLE FOR PROPER PLANT HEALTH, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROPER SUBSTITUTIONS SHALL BE SPECIFIED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ADDITIONALLY, IF PRESENT, THE CONTRACTOR SHALL REMOVE LIMESTONE, CONCRETE AND OTHER DELETERIOUS DEBRIS FROM PLANTING BEDS. IF DEBRIS IS INTEGRATED IN THE SOIL, THE SOIL MUST BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOIL. LASTLY, ALL FILL TO BE PLACED IN LANDSCAPE AREAS MUST HAVE A PH RANGE BETWEEN 5.8 AND 7.5, BE ORGANIC IN NATURE, AND BE FREE OF ROCKS AND DEBRIS.
- TOPSOIL: TOPSOIL MATERIAL, IF REQUIRED, SHALL BE FREE FROM ALL HARD CLODS, WEEDS, STONES OVER 1" IN DIAMETER, CLAY, HARD PAN, NOXIOUS PLANTS, SOD, INSECTS, OR OTHER UNDESIRABLE PLANTS, SEEDS, OR MATERIAL WHICH MAY BE HARMFUL FOR GROWTH AND SHALL BE CERTIFIED AS STERILE.
- WEEDS: IF PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY WEEDS FROM PLANTING AREAS PRIOR TO THE INSTALLATION OF PROPOSED PLANT MATERIAL AND MULCH COVER. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BEDS FREE OF WEEDS FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD.
- GRADING: UNLESS OTHERWISE STATED ON THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED AND SODDED IN ORDER TO ELIMINATE BUMPS AND DEPRESSIONS. FINE GRADING SHALL BE DEFINED AS THE FINAL 2" OF GRADE TO BE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REGRADING WASHOUT AREAS CAUSED BY EROSION UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- STAKING: ALL TREES, SHRUBS AND GRASS COVERS ARE TO BE PLANTED ACCORDING TO THE DETAILS IN THESE PLANS. IF THE CONTRACTOR PREFERENCES TO USE OTHER STAKING METHODS THAN SHOWN IN THE DETAILS, HE OR SHE MUST SUBMIT PROPOSED STAKING DETAILS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN, REPAIR, AND/OR REPLACE ANY PLANTS DAMAGED BY FAILURE TO PROPERLY STAKE OR GUY ANY TREES IN SITE, AT THEIR OWN EXPENSE.
- FERTILIZER: OSMOCOTE SLOW RELEASE FERTILIZER OR EQUIVALENT SHALL BE APPLIED TO ALL TREE, SHRUB, AND GRASSCOVER PLANTING AREAS AT THE RATE OF THREE (3) TABLESPOONS PER 2 SF. OF PLANTING AREA.
- DRAINAGE: THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT THIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS AND SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY SHALL A CONFLICT ARISE.
- SPECIFICATIONS: THE LANDSCAPE ARCHITECT SHALL BE PERMITTED THE RIGHT DURING INSTALLATION, TO REJECT ANY AND ALL PLANT MATERIAL AND WORKMANSHIP WHICH IN HIS OR HER OPINION DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.
- PERCOLATION: PERCOLATION TESTS ARE REQUIRED FOR ALL PLANTING PITS FOR PHOENIX SPP. PALM TREES AFTER THE PLANTING PIT IS DUG TO THE PROPER DEPTH, FILL PIT WITH WATER AND DOCUMENT THE AMOUNT OF TIME IT TAKES FOR THE WATER TO DRAIN FROM THE PIT COMPLETELY. NOTIFY THE OWNERS REPRESENTATIVE TO WITNESS THE TEST.
- TURNOVER: CONTRACTOR SHALL CONTACT OWNERS REPRESENTATIVE FOR A TURNOVER DATE TO INCLUDE A WALK-THROUGH AND ACCEPTANCE OF WORK BY THE LANDSCAPE ARCHITECT. ANY WORK DEEMED UNACCEPTABLE SHALL BE CORRECTED IMMEDIATELY AND REINSPECTED AS SCHEDULED.
- MAINTENANCE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE TO BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, MULCHING, MOVING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY IN ORDER TO MAINTAIN PROPER PLANT HEALTH AND SOIL MOISTURE CONTENT.
- GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR ONE (1) CALENDAR YEAR STARTING FROM THE TURNOVER DATE. SHOULD WORK BE FOUND ACCEPTABLE, ANY CORRECTED WORK SHALL HAVE A PROPORTIONAL EXTENSION OF WARRANTY ONCE APPROVED. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE TO HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FLOODING, FIRE, FREEZING TEMPERATURES, WINDS OVER 50 MPH, LIGHTNING, ANY OTHER NATURAL DISASTER, OR ANY LOSS/DAMAGE CAUSED BY VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.

IRRIGATION NOTES

1. AN AUTOMATIC TIME CONTROLLED IRRIGATION SYSTEM WITH A RAIN SENSOR SHALL BE INSTALLED TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANTINGS. IRRIGATION PLAN SHALL BE PROVIDED UPON SUBSTANTIAL SITE PLAN APPROVAL.

QUALIFICATION OF CONTRACTORS

- THE CITY OF EDGEWATER BEACH RESERVES THE RIGHT TO REQUIRE ANY BIDDER TO SUBMIT SUCH EVIDENCE OF QUALIFICATIONS AS IT MAY DEEM NECESSARY AND MAY CONSIDER EVIDENCE AVAILABLE CONCERNING THE FINANCIAL AND OTHER QUALIFICATIONS AND ABILITIES OF A CONTRACTOR. FAILURE TO PROVIDE ALL REQUIRED INFORMATION MAY RESULT IN THE PROPOSAL BEING REJECTED AS NONRESPONSIVE. THE MINIMUM QUALIFICATIONS FOR THIS PROJECT ARE AS FOLLOWS:
1. THE CONTRACTOR MUST HAVE A MINIMUM TEN (10) YEARS EXPERIENCE INSTALLING (NOT MAINTAINING) LANDSCAPE AND IRRIGATION SYSTEMS ON PROJECTS OF A SIMILAR SCOPE IN NATURE WITH VERIFIABLE REFERENCES IN THE FOLLOWING AREAS: MUNICIPAL LANDSCAPE AND IRRIGATION CONTRACTS, PROJECTS WITHIN FOOT RIGHTS OF WAY, PROJECTS EXCEEDING \$500K AS PRIME CONTRACTOR, TWENTY (20) OR MORE DATE PALMS ON A SINGLE SITE AND PROJECT FUNDED BY COUNTY, STATE OR FEDERAL FUNDS.

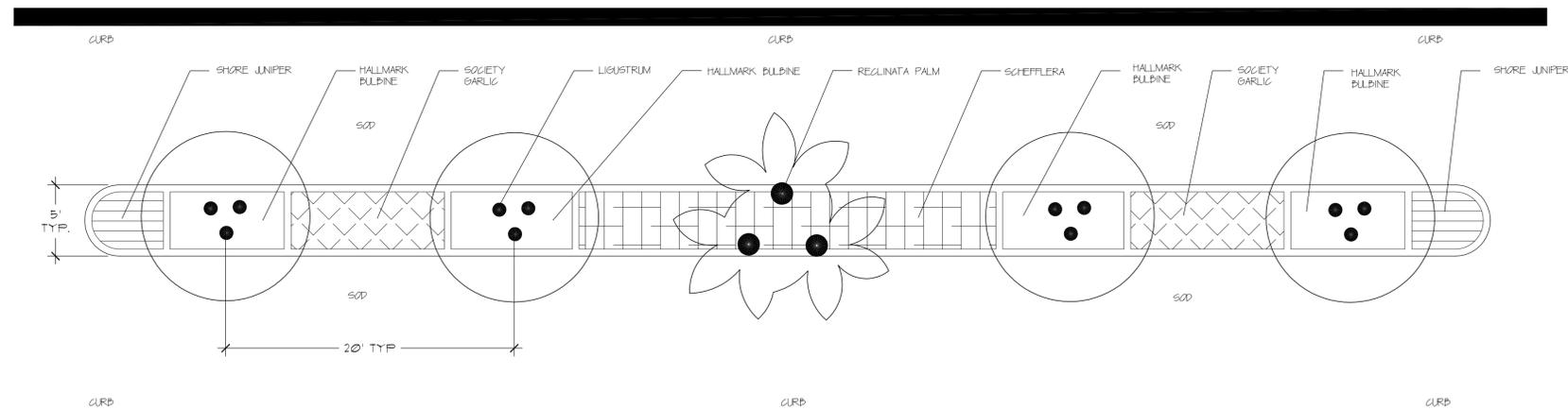
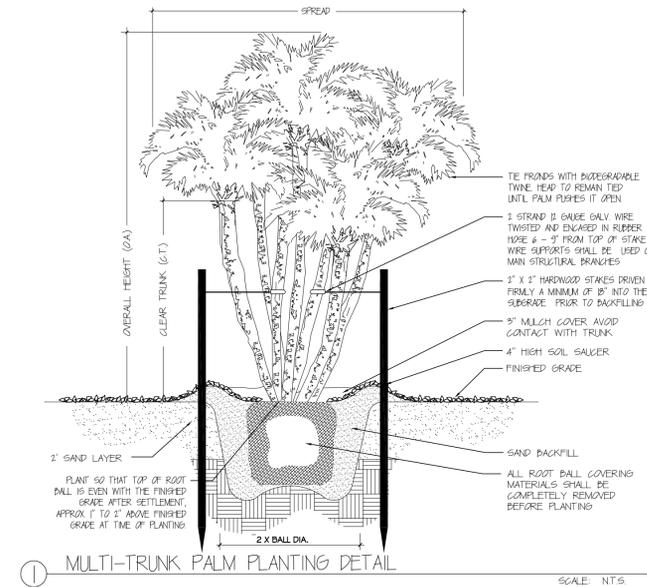
BASE INFORMATION

- BASE PLANS USED IN THE DEVELOPMENT OF THIS PROJECT DESIGN WERE PROVIDED BY FDOT CONTRACTOR TO CONFIRM FINAL LAYOUT AND DIMENSIONS PRIOR TO COMMENCING WORK.
- MEDIAN LINES ARE DRAWN IN PER GOOGLE MAP IMAGES (FIELD VERIFY).

MASTER PLANT LIST

SYMB	QUAN	SPECIES	COMMON NAME	SPECIFICATIONS
PALMS				
LN	11	LIVISTONA NITIDA	CARNARVON GORGE PALM	14' C.T. MATCHED, DIAMOND CUT
PR	9	PHOENIX REGLINATA	REGLINATA PALM	10' -12' C.T. HT., MIN. 8-10 TRUNK, 4" MAX.
TREES				
LI	19	LAGERSTRÖMIA INDICA 'MUSKOGEE'	LAVENDER GRAPE MYRTLE	65 GAL., 3 1/2" CAL., 12' HT., 8.5' C.T.
LJ	35	LIGUSTRUM JAPONICUM 'TREE FORM'	LIGUSTRUM TREE	12' X 12', M.T., 8.5' C.T., PRUNED
SHRUBS & GRASSCOVERS				
BF	464	BULBINE FRUTESCENS	YELLOW BULBINE	3 GAL., 12" HT. X 12" SPRD., FULL, 18" OC.
JK	64	JUNIFERUS CONFERTA	SHORE JUNIFER	3 GAL., 18" HT. X 18" SPRD., FULL, 30" OC.
SA	152	SCHEFFLERA ARBORICOLA 'TRINETTE'	VARIEGATED SCHEFFLERA	7 GAL., 18" SPD. X 24" HT., FULL, 30" OC.
TV	304	TULASHIA VIOLACEA	SOCIETY GARLIC	1 GAL., 12" SPRD., 18" OC.

NOTE: SEE LANDSCAPE PLAN, SHEETS LA1 THRU LA7, FOR INDIVIDUAL MEDIAN QUANTITIES.



5) MEDIAN PLANTING DETAIL

SCALE: N.T.S.

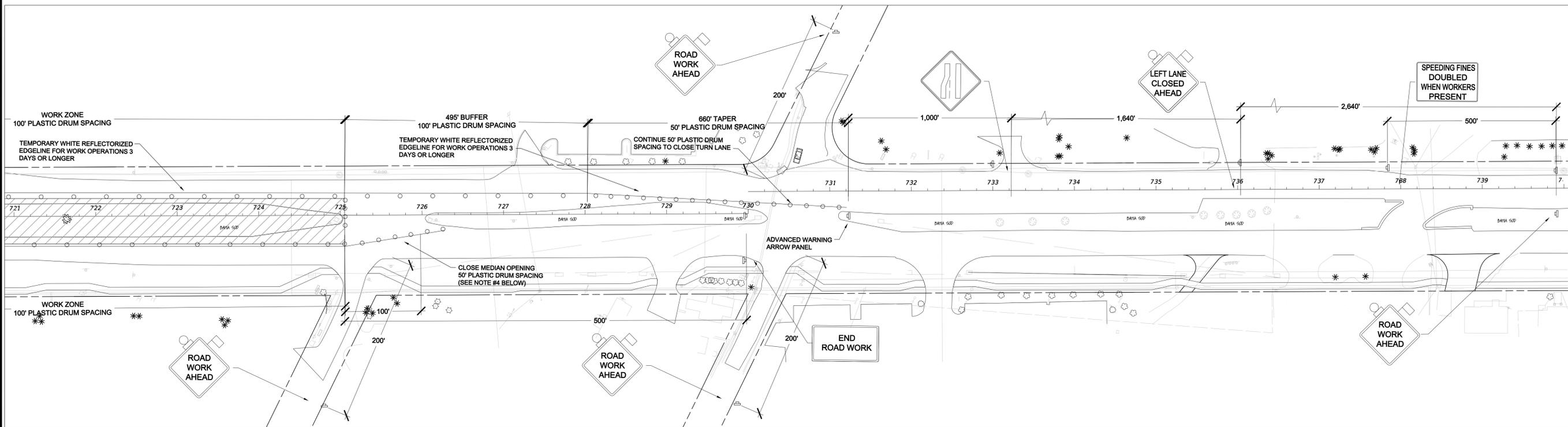
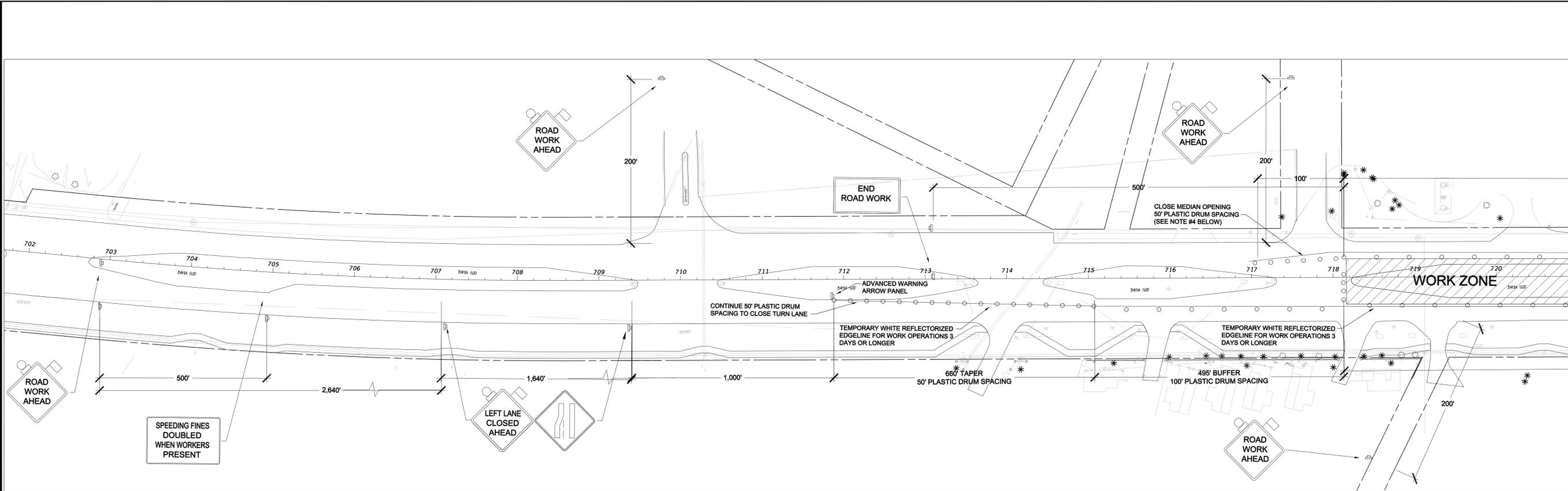


ORMOND BEACH, FL 32174
300 INTERSTATE 95, SUITE 200
(386) 877-2482 FAX: (386) 877-2595
ST. AUGUSTINE, FL 32086
4475 U.S. 1, SUITE 100
(386) 797-6700 FAX: (386) 797-4169
AMELIA ISLAND, FL 32034
84 ATLANTIC AVE., SUITE 100
(386) 461-5456 FAX: (386) 461-4169

NO.	DATE	DESCRIPTION
1	12-18-16	REVISED PER FOOT COMMENTS, DATED 4-14-16
2	4-14-16	REVISED PER FOOT COMMENTS, DATED 4-14-16
3	6-4-16	REVISED PER FOOT COMMENTS, DATED 6-20-15
4	12-18-16	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FOOT COMMENTS, DATED 4-14-16

**US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
NOTES & DETAILS**

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM
PROJECT NO. 14021
DRAFTED BY: AKS
CHECKED BY: SIK/PM
ISSUE DATE: 7-14-14
DESIGNED BY: PM
DRAWING FILE: US1/TA
XREFS: H01/TA/SE



NOTES

- M.O.T. SHALL CONFORM TO THE FDOT INDICES, 2016 EDITION. M.O.T. SHOWN AS A GUIDE, CONTRACTOR REQUIRED TO COORDINATE WITH FDOT FOR FINAL M.O.T. DESIGN AND APPROVAL.
- CONTRACTOR TO PROVIDE M.O.T SHOP DRAWINGS AND OBTAIN APPROVAL FROM F.D.O.T. CONSTRUCTION OFFICE PRIOR TO CONSTRUCTION ON EACH MEDIAN (AS FUNDING ALLOWS). M.O.T. PROVIDED HEREON IS TYPICAL AND WILL APPLY TO EACH MEDIAN CONSTRUCTION.
- NO LANE CLOSURES DURING CITY SPECIAL EVENTS, HOLIDAYS, PEAK TRAVEL TIMES (6-8AM, 5-7PM). SIGNALIZED INTERSECTIONS SHALL BE FREE OF BARRIER DEVICES AT ALL TIMES.
- THE WORK ZONE SPEED LIMITS THROUGHOUT THE DESIGNATED PROJECT LIMITS WILL REMAIN THE SAME AS THE POSTED 55, 45 & 40 MPH.
- "SPECIAL EVENTS" INCLUDE, BUT ARE NOT LIMITED TO, DAYTONA SPEED WEEKS, DAYTONA BIKE WEEK, SPRING BREAK AND BIKE/BIKEFEST.



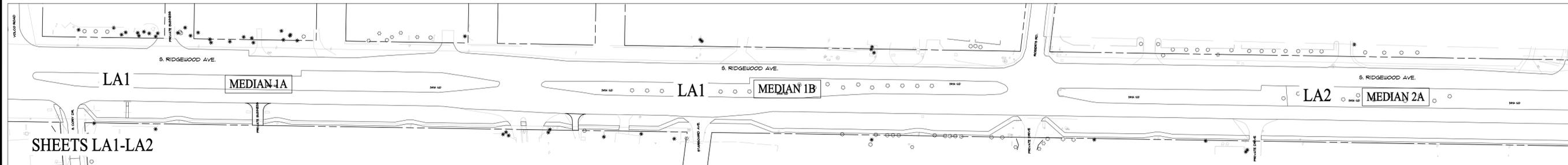
ORMOND BEACH
300 INTERSTATE AVENUE
(386) 877-2482 FAX: (386) 877-2555
ST. AUGUSTINE
4475 U.S. 1 S. ST. AUGUSTINE, FL 32086
(386) 737-6100 FAX: (386) 737-4159
AMELIA ISLAND
84 ATLANTIC AVENUE, SEASIDE BEACH, FL 32084
(386) 481-5438 FAX: (386) 481-4159

NO.	DATE	DESCRIPTION
1.	7-14-14	REVISED PER CITY COMMENTS, DATED 7-14-14
2.	8-4-15	REVISED PER FDOT COMMENTS, DATED 8-4-15
3.	8-4-15	REVISED PER FDOT COMMENTS, DATED 8-20-15
4.	12-18-16	REVISED PER CITY REQUEST
5.	3-15-16	REVISED PER CITY REQUEST
6.	4-10-16	REVISED PER FDOT COMMENTS, DATED 4-10-16

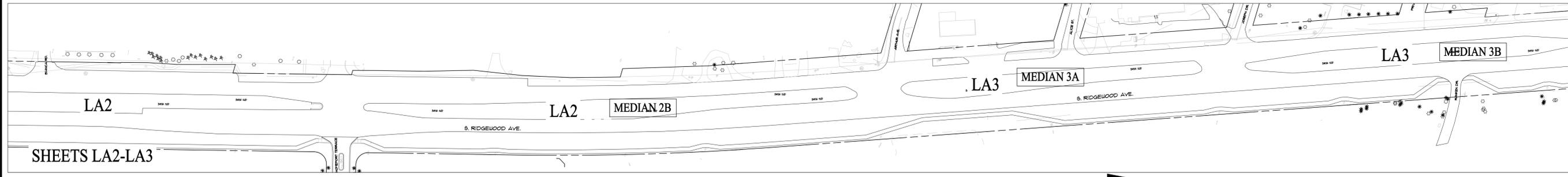
**US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
MAINTENANCE OF TRAFFIC**

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

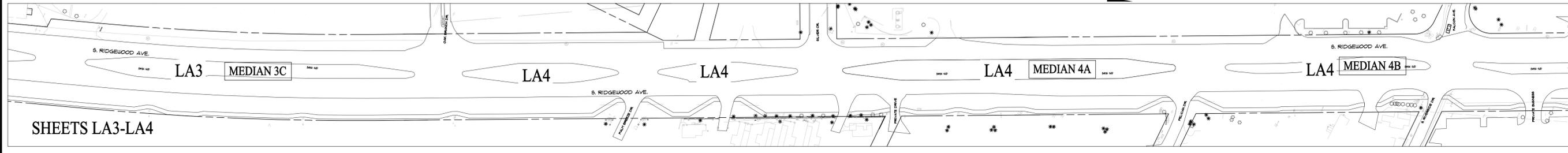
PROJECT NO: 14021
ISSUE DATE: 7-14-14
DESIGNED BY: PM
DRAFTED BY: AKS
CHECKED BY: SRK/PM
DRAWING FILE: 14021A
XREF: H02TASE



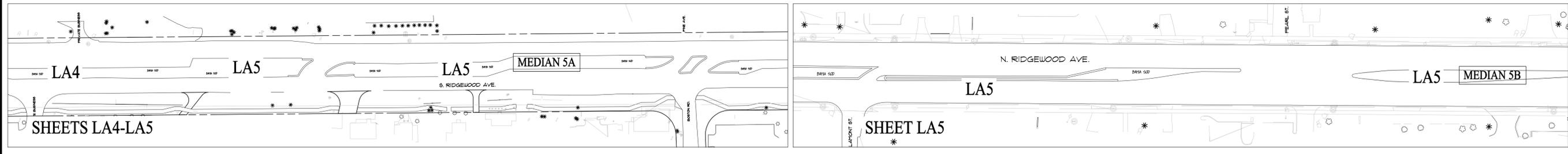
SHEETS LA1-LA2



SHEETS LA2-LA3

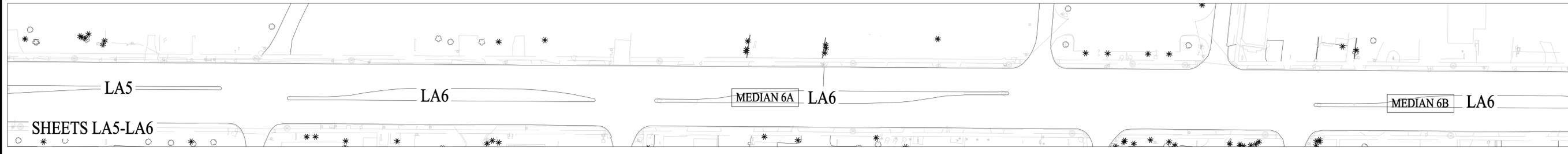


SHEETS LA3-LA4

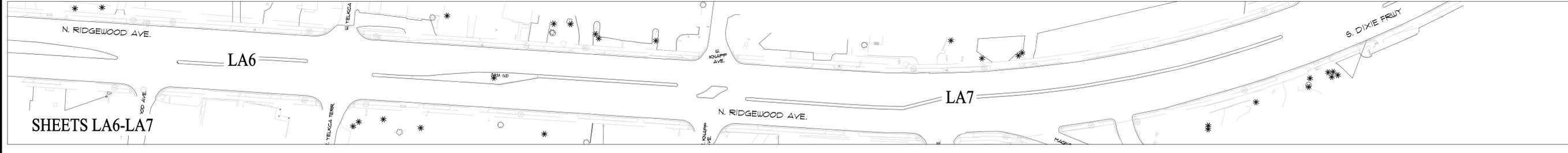


SHEETS LA4-LA5

SHEET LA5



SHEETS LA5-LA6



SHEETS LA6-LA7



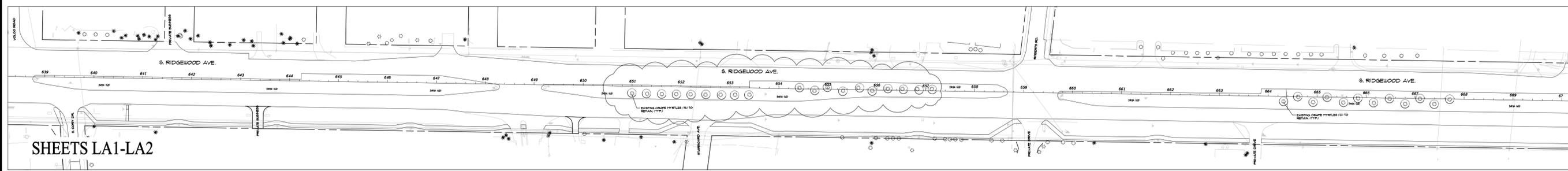
ORMOND BEACH
300 INTERSTATE 95
(386) 877-2482 FAX: (386) 877-2555
ST. AUGUSTINE, FL 32086
4475 U.S. 95
(386) 797-6100 FAX: (386) 797-4159
AMELIA ISLAND
84 ATLANTIC AVE. SEASIDE BEACH, FL 32084
(386) 461-5466 FAX: (386) 461-4159

NO.	DATE	DESCRIPTION
1	12-18-14	REVISED PER CITY COMMENTS, DATED 12-18-14
2	4-4-15	REVISED PER FOOT COMMENTS, DATED 4-15-15
3	6-4-15	REVISED PER FOOT COMMENTS, DATED 6-4-15
4	12-18-16	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FOOT COMMENTS, DATED 4-10-16

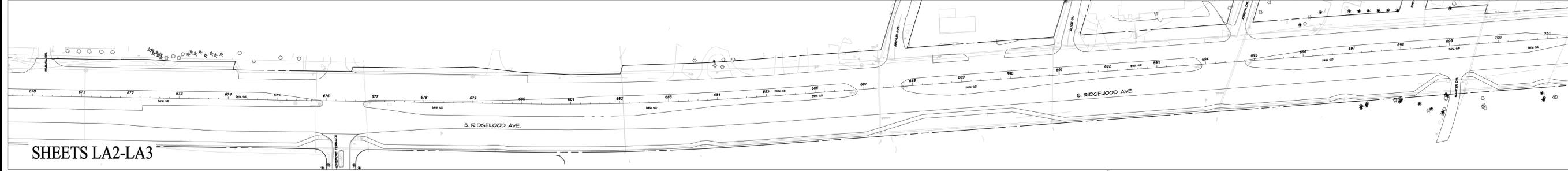
US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
LAYOUT SHEET

VOLUSIA COUNTY, FLORIDA
CITY OF EDGEWATER

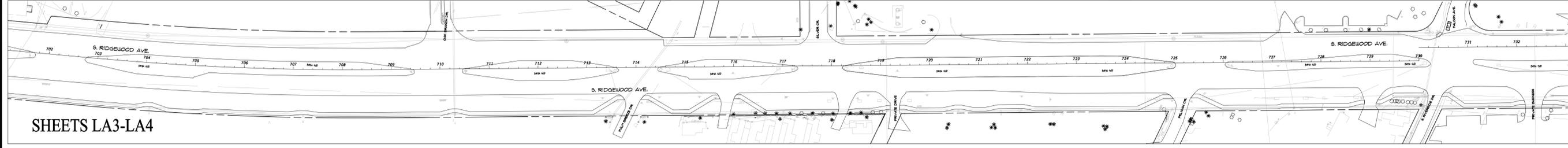
ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM
PROJECT NO: 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SRK/PM
DRAWING FILE: LA2/LA XREFS: H02/HA5E



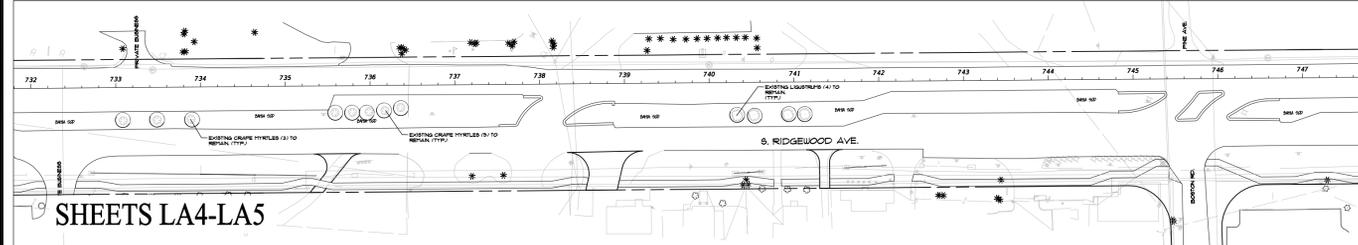
SHEETS LA1-LA2



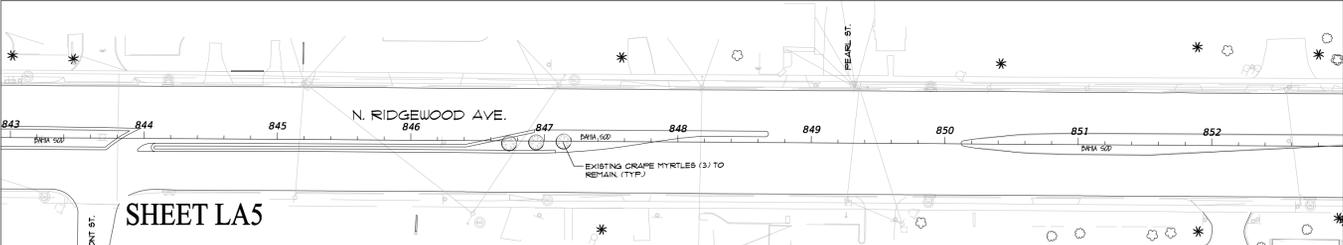
SHEETS LA2-LA3



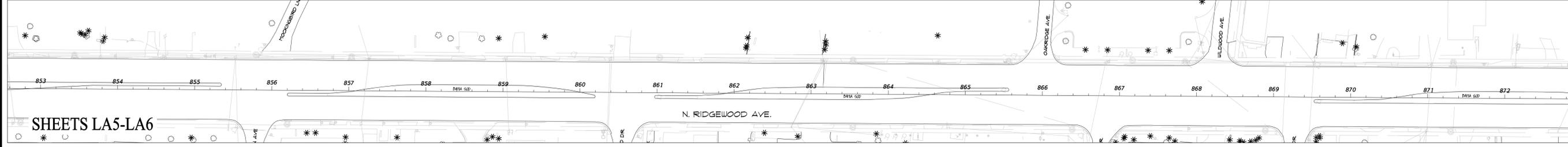
SHEETS LA3-LA4



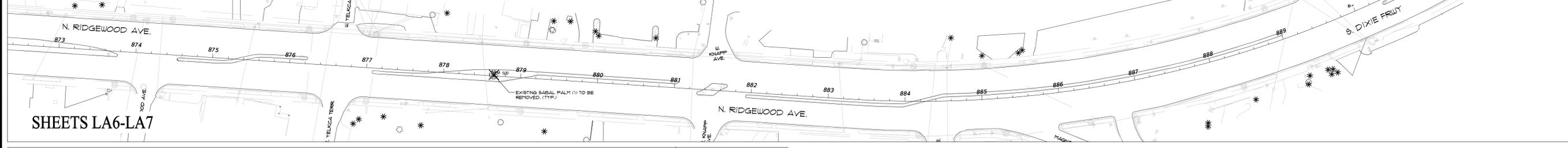
SHEETS LA4-LA5



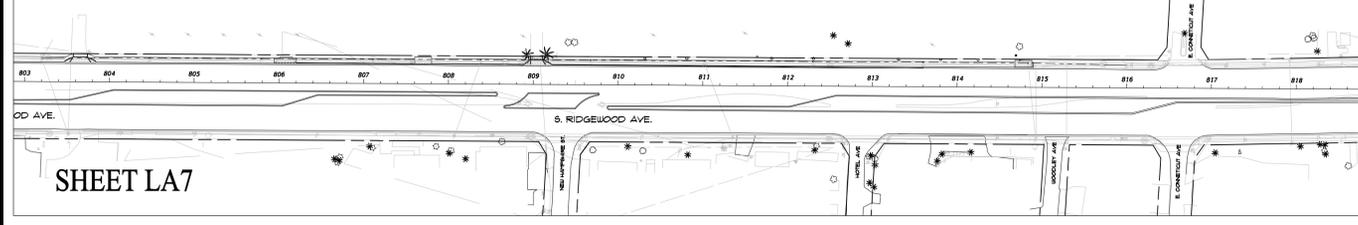
SHEET LA5



SHEETS LA5-LA6



SHEETS LA6-LA7



SHEET LA7

LEGEND	
○	EXISTING TREE/PALM TO REMAIN
⊗	EXISTING TREE/PALM TO BE REMOVED

NOTE: CUT OUT/REMOVE EXISTING SOD FROM PROPOSED NEW LANDSCAPE AREAS



ORMOND BEACH
300 INTERSTATE 95
(386) 877-2482 FAX: (386) 877-2555
ST. AUGUSTINE, FL 32086
4475 U.S. 1
(386) 737-6100 FAX: (386) 737-4159
AMELIA ISLAND
84 ATLANTIC AVE.
(386) 461-5456 FAX: (386) 461-4159

NO.	DATE	DESCRIPTION
1.	1-15-14	REVISED PER CITY COMMENTS, DATED 1-15-14
2.	2-4-14	REVISED PER FOOT COMMENTS, DATED 2-4-14
3.	6-4-15	REVISED PER FOOT COMMENTS, DATED 6-4-15
4.	12-18-16	REVISED PER CITY REQUEST
5.	3-15-16	REVISED PER CITY REQUEST
6.	4-10-16	REVISED PER FOOT COMMENTS, DATED 4-10-16

REVISIONS:

**US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
DEMOLITION PLAN**

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM

PROJECT NO: 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SRK/PM
DESIGNED BY: PM DRAWING FILE: LA2/LA DEMOLITION PLAN SHEET 1

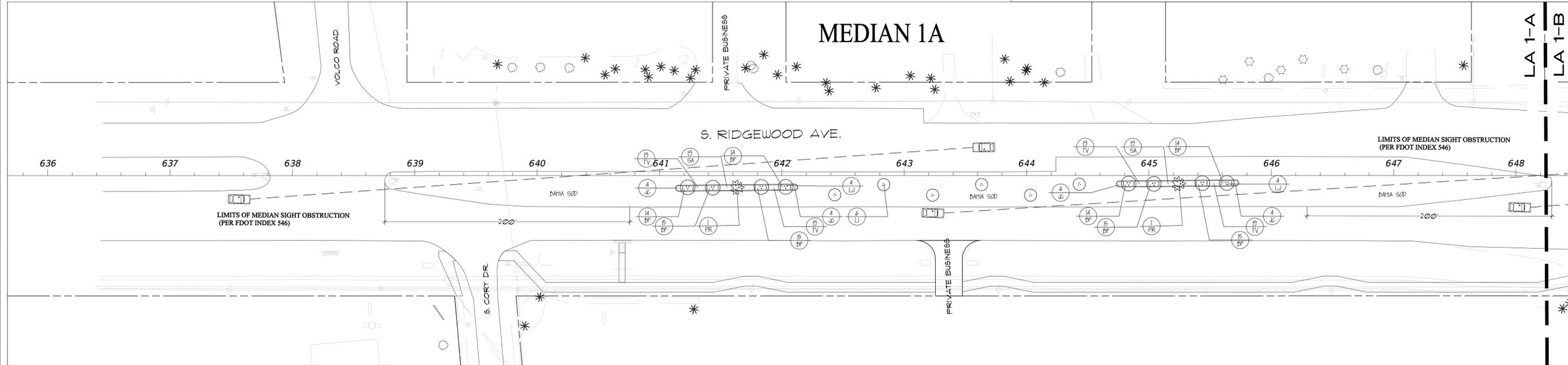
SCALE: SHEET DEM OF 1

VOLUSIA COUNTY, FLORIDA
CITY OF EDGEWATER

LA 1-A

POSTED SPEED 55 MPH

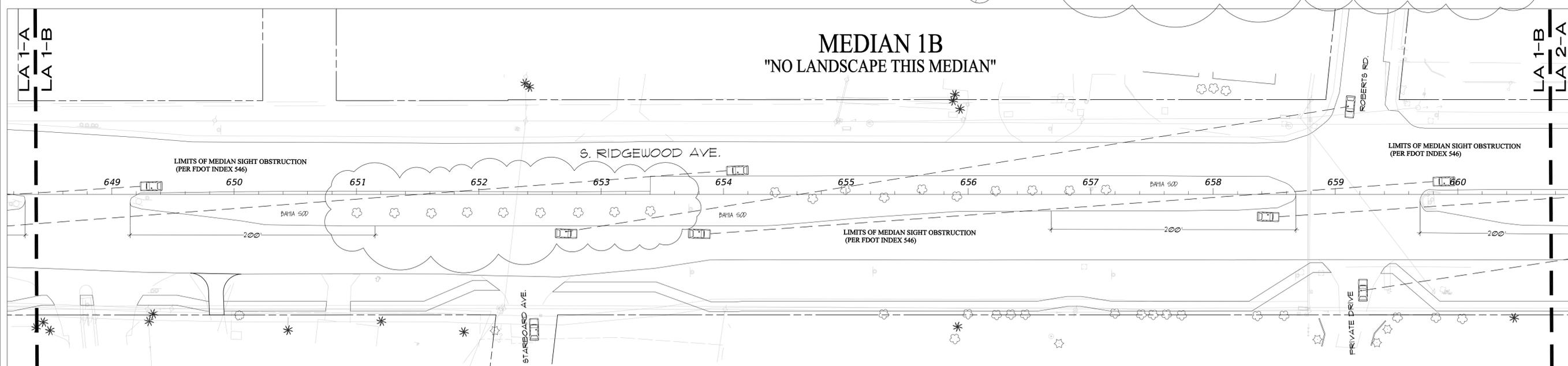
DESIGN SPEED 55 MPH



LA 1-B

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



ORMOND BEACH
300 INTERSTATE 95, SUITE 201
(386) 877-2482 FAX: (386) 877-2595

ST. AUGUSTINE
4475 U.S. 1, SUITE 201
(386) 737-1600 FAX: (386) 737-4159

AMELIA ISLAND
84 ATLANTIC AVE., SUITE 4150
(386) 461-6468 FAX: (386) 461-4150

NO.	DATE	DESCRIPTION
1	1-14-14	ISSUED PER CITY COMMENTS, DATED 1-14-14
2	2-4-14	REVISED PER FDOT COMMENTS, DATED 2-4-14
3	8-4-15	REVISED PER FDOT COMMENTS, DATED 8-4-15
4	12-18-16	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FDOT COMMENTS, DATED 4-16

**US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS**

VOLUSIA COUNTY, FLORIDA

CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM

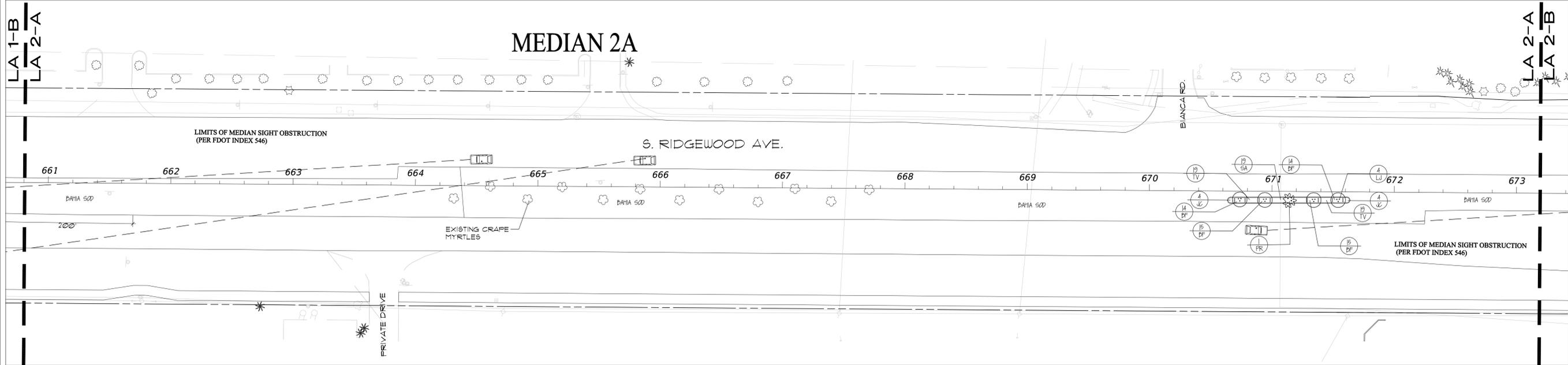
PROJECT NO: 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SIK/PM
DESIGNED BY: PM DRAWING FILE: LA21LA
XREFS: HD21ASE

SCALE:
SHEET
LA1 OF 7

LA 2-A

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



PLANT LIST: MEDIAN 2A

SPECIES	COMMON NAME	SPECIFICATIONS
PALMS		
FR 1	PHOENIX REQLINATA	REQLINATA PALM
TREES		
LJ 4	LIGUSTRUM JAPONICUM TREE FORM	LIGUSTRUM TREE
SHRUBS & GRASSCOVERS		
BF 50	BULPINE FRUTESCENS	YELLOW BULPINE
JK 5	JUNIPERUS CONFERTA	SHORE JUNIPER
SA 19	SCHEFFLERA ARBORICOLA 'TRINETTE'	VARIEGATED SCHEFFLERA
TV 30	TULBAGHIA VIOLACEA	SOCIETY GARLIC

10'-12' C.T. HT., MIN 8-10 TRUNK, 4" MAX.

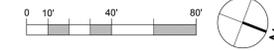
12' x 12', MT, 8.5' C.T., PRUNED

3 GAL., 12" HT. X 12" SPRD., FULL, 18" OC.

3 GAL., 18" HT. X 18" SPRD., FULL, 30" OC.

7 GAL., 18" SPD. X 24" HT., FULL, 30" OC.

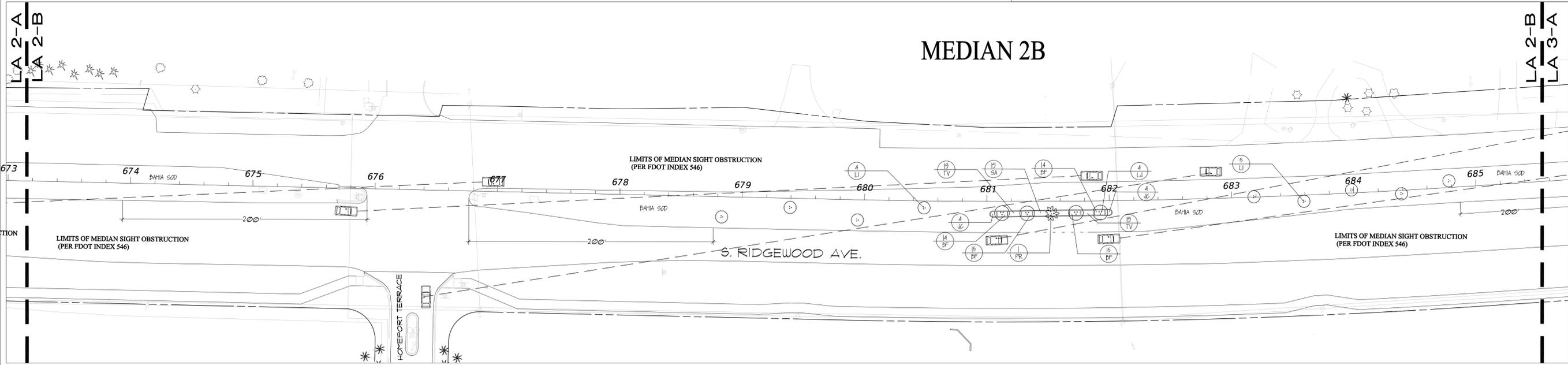
1 GAL., 12" SPRD., 18" OC.



LA 2-B

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



PLANT LIST: MEDIAN 2B

SPECIES	COMMON NAME	SPECIFICATIONS
PALMS		
FR 1	PHOENIX REQLINATA	REQLINATA PALM
TREES		
LJ 4	LIGUSTRUM JAPONICUM TREE FORM	LIGUSTRUM TREE
SHRUBS & GRASSCOVERS		
BF 50	BULPINE FRUTESCENS	YELLOW BULPINE
JK 5	JUNIPERUS CONFERTA	SHORE JUNIPER
SA 19	SCHEFFLERA ARBORICOLA 'TRINETTE'	VARIEGATED SCHEFFLERA
TV 30	TULBAGHIA VIOLACEA	SOCIETY GARLIC

10'-12' C.T. HT., MIN 8-10 TRUNK, 4" MAX.

65 GAL., 3 1/2" CAL., 12" HT., 8.5' C.T.

12' x 12', MT, 8.5' C.T., PRUNED

3 GAL., 12" HT. X 12" SPRD., FULL, 18" OC.

3 GAL., 18" HT. X 18" SPRD., FULL, 30" OC.

7 GAL., 18" SPD. X 24" HT., FULL, 30" OC.

1 GAL., 12" SPRD., 18" OC.



ORMOND BEACH
300 INTERSTATE 95
(386) 877-2482 FAX: (386) 877-2555

ST. AUGUSTINE
4475 U.S. 1
(386) 737-8100 FAX: (386) 737-8109

AMELIA ISLAND
84 ATLANTIC AVE. SUITE 200
(386) 461-5466 FAX: (386) 461-4150

NO.	DATE	DESCRIPTION
1	2-14-16	ISSUED PER CITY COMMENTS, DATED 2-14-16
2	2-14-16	REVISED PER FDOT COMMENTS, DATED 2-14-16
3	8-4-16	REVISED PER FDOT COMMENTS, DATED 8-4-16
4	12-18-16	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FDOT COMMENTS, DATED 4-10-16

US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS

VOLUSIA COUNTY, FLORIDA

CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL

PROJECT NO: 14021
ISSUE DATE: 7-14-14
DESIGNED BY: PM

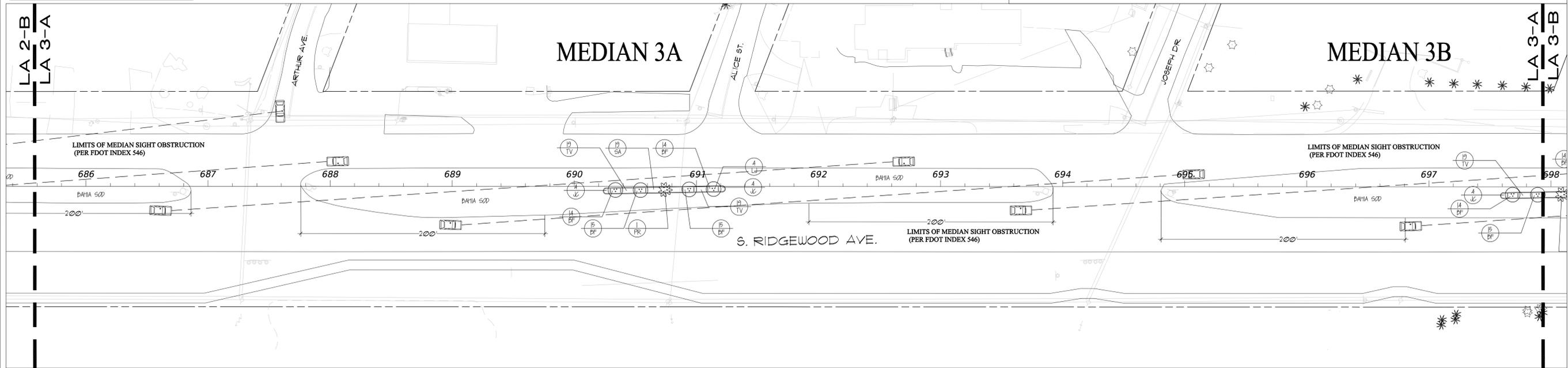
DRAFTED BY: AKS
CHECKED BY: SIK/PM
DRAWING FILE: LA2/LA
XREFS: H02/HASE

SCALE:
SHEET
LA2 OF 7

LA 3-A

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



PLANT LIST: MEDIAN 3A

SPECIES	COMMON NAME	SPECIFICATIONS
PALMS		
PR 1	PHOENIX REGLINATA	REGLINATA PALM
TREES		
LJ 4	LIGUSTRUM JAPONICUM TREE FORM	LIGUSTRUM TREE
SHRUBS & GRANDCOVERS		
PF 50	BULPINE FRUTESCENS	YELLOW BULPINE
JK 3	JUNIPERUS CONFERTA	SHORE JUNIPER
SA 19	SHEFFLERA ARBORICOLA TRINETTE	VARIEGATED SHEFFLERA
TV 20	TULPAGHIA VIOLACEA	SOCIETY GARLIC

10' -12' C.T. HT., MIN. 8-10 TRUNK, 4" MAX.

12' x 12', MT., 8.5' C.T., PRUNED

3 GAL., 12" HT. X 12" SPRD., FULL, 15" O.C.

3 GAL., 18" HT. X 18" SPRD., FULL, 30" O.C.

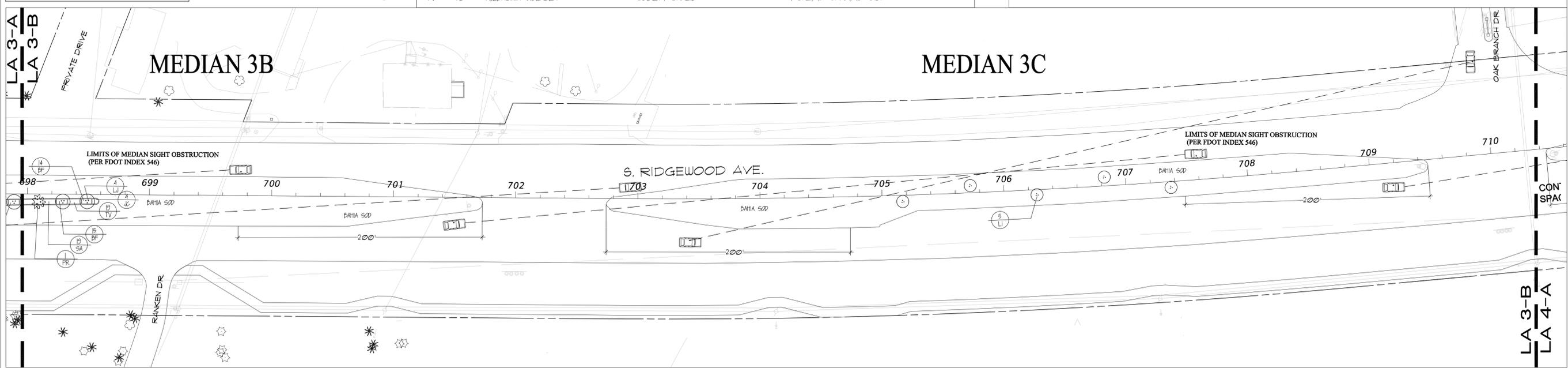
7 GAL., 18" SPD X 24" HT., FULL, 30" O.C.

1 GAL., 12" SPRD., 18" O.C.

LA 3-B

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



PLANT LIST: MEDIAN 3B

SPECIES	COMMON NAME	SPECIFICATIONS
PALMS		
PR 1	PHOENIX REGLINATA	REGLINATA PALM
TREES		
LJ 4	LIGUSTRUM JAPONICUM TREE FORM	LIGUSTRUM TREE
SHRUBS & GRANDCOVERS		
PF 50	BULPINE FRUTESCENS	YELLOW BULPINE
JK 3	JUNIPERUS CONFERTA	SHORE JUNIPER
SA 19	SHEFFLERA ARBORICOLA TRINETTE	VARIEGATED SHEFFLERA
TV 20	TULPAGHIA VIOLACEA	SOCIETY GARLIC

10' -12' C.T. HT., MIN. 8-10 TRUNK, 4" MAX.

12' x 12', MT., 8.5' C.T., PRUNED

3 GAL., 12" HT. X 12" SPRD., FULL, 15" O.C.

3 GAL., 18" HT. X 18" SPRD., FULL, 30" O.C.

7 GAL., 18" SPD X 24" HT., FULL, 30" O.C.

1 GAL., 12" SPRD., 18" O.C.

PLANT LIST: MEDIAN 3C

SPECIES	COMMON NAME	SPECIFICATIONS
TREES		
LI 5	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER GRAPE MYRTLE

65 GAL., 3 1/2" CAL., 12' HT., 8.5' C.T.



ORMOND BEACH
300 INTERSTATE 95
(386) 877-2482 FAX: (386) 877-2545

ST. AUGUSTINE
4475 U.S. 1 S.
(386) 737-6100 FAX: (386) 737-4159

AMELIA ISLAND
84 ATLANTIC AVE.
(386) 461-6466 FAX: (386) 461-4159

NO.	DATE	DESCRIPTION
1	1-14-14	ISSUED PER CITY COMMENTS, DATED 1-14-14
2	2-4-14	REVISED PER FDOT COMMENTS, DATED 2-4-14
3	8-4-14	REVISED PER FDOT COMMENTS, DATED 8-4-14
4	12-18-14	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FDOT COMMENTS, DATED 4-10-16

REVISIONS:

US 1 AND SR442 BEAUTIFICATION LANDSCAPE PLANS

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL

PROJECT NO. 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SIK/PM
DESIGNED BY: PM DRAWING FILE: LA3/LA
XREFS: H02/HASE

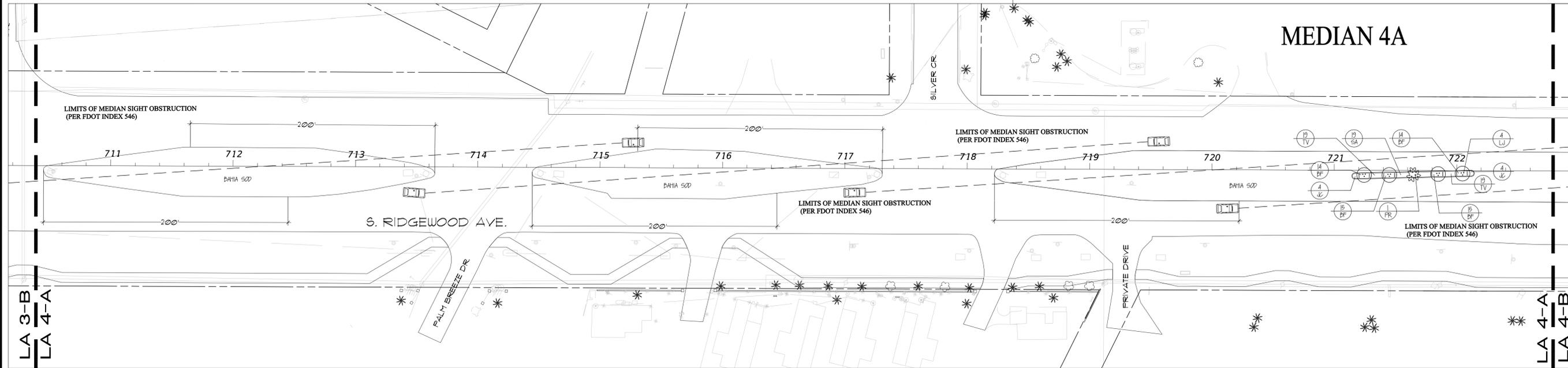
CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

SCALE:
SHEET
LA3 OF 7

LA 4-A

POSTED SPEED 55 MPH

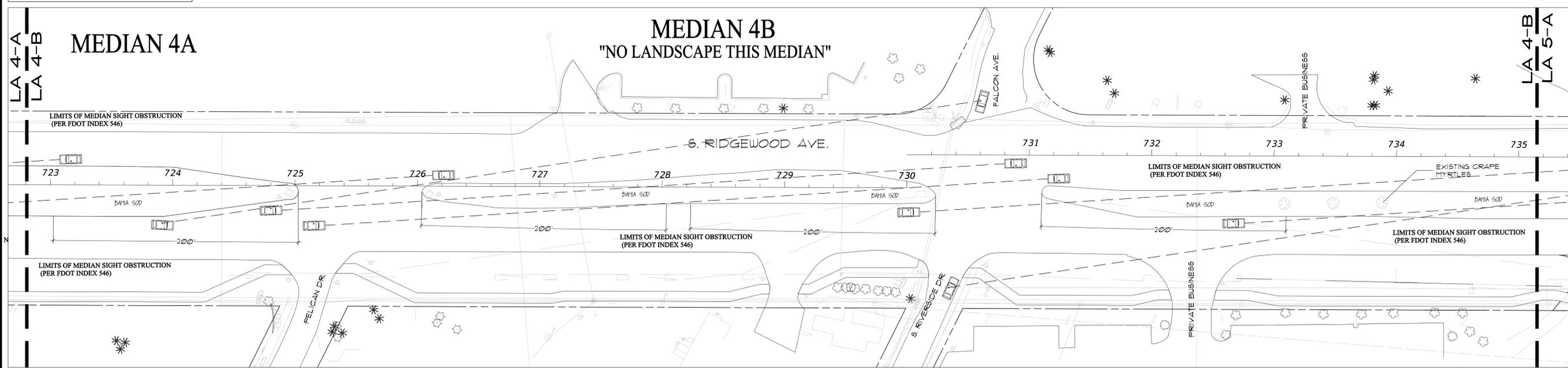
DESIGN SPEED 55 MPH



LA 4-B

POSTED SPEED 45 MPH

DESIGN SPEED 50 MPH



ORMOND BEACH, FL 32174
300 INTERSTATE 95, SUITE 200
(386) 877-2482 FAX: (386) 877-2555

ST. AUGUSTINE, FL 32086
4475 U.S. 1, SUITE 100
(386) 797-6100 FAX: (386) 797-4159

AMELIA ISLAND, FL 32004
84 ATLANTIC AVE., SUITE 4150
(386) 461-6466 FAX: (386) 461-4150

NO.	DATE	DESCRIPTION
1	1-14-14	ISSUED PER CITY COMMENTS, DATED 1-14-14
2	2-4-14	REVISED PER CITY COMMENTS, DATED 2-4-14
3	6-4-15	REVISED PER CITY COMMENTS, DATED 6-4-15
4	12-18-15	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER CITY COMMENTS, DATED 4-10-16

**US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS**

VOLUSIA COUNTY, FLORIDA

CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM

PROJECT NO: 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SIK/PM
DRAWING FILE: LA2/14 XREFS: HD/14-2

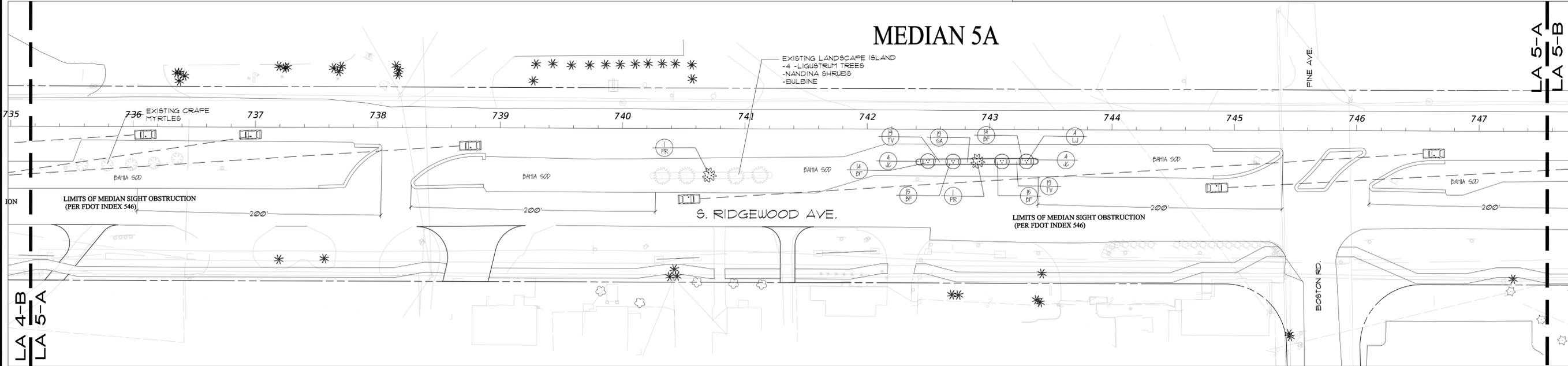
DESIGNED BY: PM

SCALE:
SHEET
LA4 OF 7

LA 5-A

POSTED SPEED 45 MPH

DESIGN SPEED 50 MPH



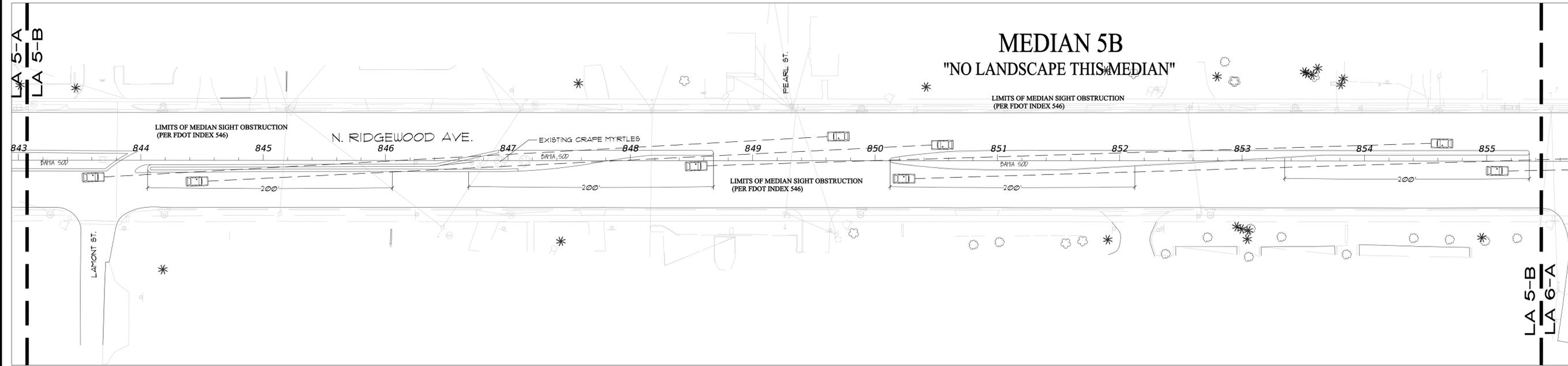
PLANT LIST: MEDIAN 5A

SPECIES	COMMON NAME	SPECIFICATIONS
PALMS		
FR 2	PHOENIX RECLINATA	RECLINATA PALM
TREES		
LJ 4	LIGUSTRUM JAPONICUM TREE FORM	LIGUSTRUM TREE
SHRUBS & GROUNDCOVERS		
BF 50	BULBINE FRUTESCENS	YELLOW BULBINE
JC 8	JUNIPERUS CONFERTA	SHORE JUNIPER
SA 19	SHEFFLERA ARBOREOLA TRINETTE	VARIEGATED SCHEFFLERA
TV 30	TULBAGHIA VIOLACEA	SOCIETY GARLIC
		3 GAL, 12" HT. X 12" SPRD, FULL, 10" OC.
		3 GAL, 10" HT. X 10" SPRD, FULL, 20" OC.
		7 GAL, 10" SPD X 14" HT., FULL, 30" OC.
		1 GAL, 12" SPRD, 10" OC.

LA 5-B

POSTED SPEED 45 MPH

DESIGN SPEED 50 MPH



ORMOND BEACH
 300 INTERSTATE 95
 (386) 877-2482 FAX: (386) 877-2555

ST. AUGUSTINE
 4475 U.S. 1
 (386) 737-6100 FAX: (386) 737-4100

AMELIA ISLAND
 84 ATLANTIC AVE.
 (904) 481-5488 FAX: (904) 481-4100

NO.	DATE	DESCRIPTION
1	1-14-14	REVISED PER CITY COMMENTS, DATED 1-14-14
2	2-4-15	REVISED PER FDOT COMMENTS, DATED 2-4-15
3	6-4-15	REVISED PER FDOT COMMENTS, DATED 6-4-15
4	12-18-15	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FDOT COMMENTS, DATED 4-10-16

REVISIONS:

US 1 AND SR442 BEAUTIFICATION
 LANDSCAPE PLANS

VOLUSIA COUNTY, FLORIDA

CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
 CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
 PLANNERS - TRANSPORTATION - ENVIRONMENTAL

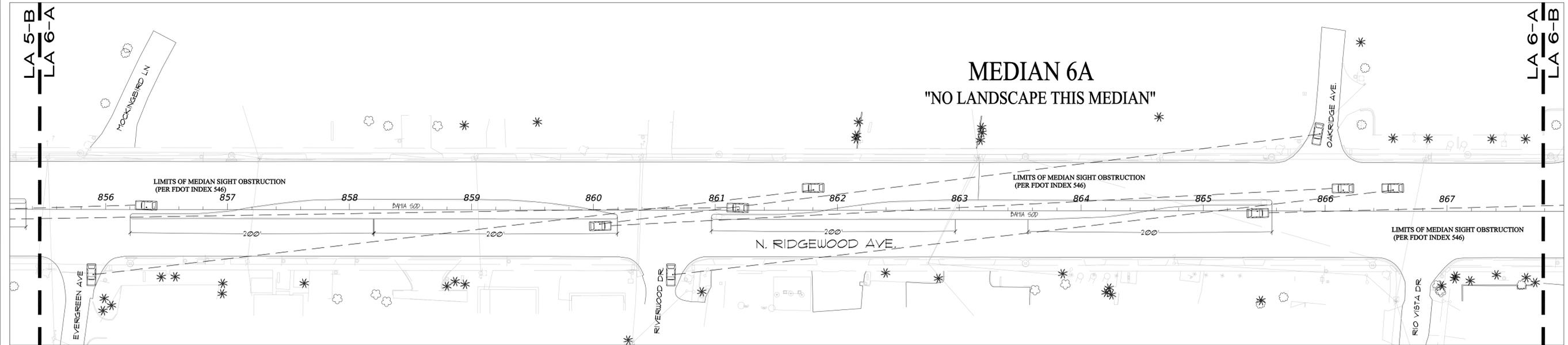
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 LA5 OF 7

LA 6-A

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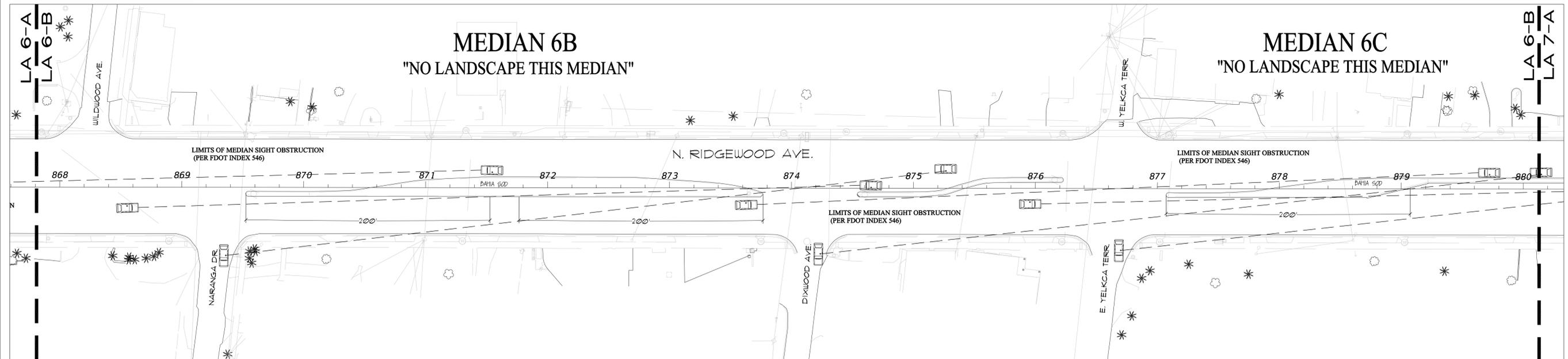
DESIGN SPEED 50 MPH



LA 6-B

POSTED SPEED 45 MPH

DESIGN SPEED 50 MPH



ORMOND BEACH
300 INTERSTATE 95, SUITE 200
(386) 877-2482 FAX: (386) 877-2555

ST. AUGUSTINE
4475 U.S. 1, S. 1000
(386) 737-1610 FAX: (386) 737-4125

AMELIA ISLAND
84 ATLANTIC AVE., SUITE 200
(386) 461-5436 FAX: (386) 461-4150

NO.	DATE	DESCRIPTION
1	11-14-13	ISSUED PER CITY COMMENTS, DATED 11-14-13
2	1-14-14	REVISED PER FDOT COMMENTS, DATED 1-14-14
3	6-4-15	REVISED PER FDOT COMMENTS, DATED 6-4-15
4	12-18-16	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FDOT COMMENTS, DATED 4-10-16

US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS

VOLUSIA COUNTY, FLORIDA

CITY OF EDGEWATER

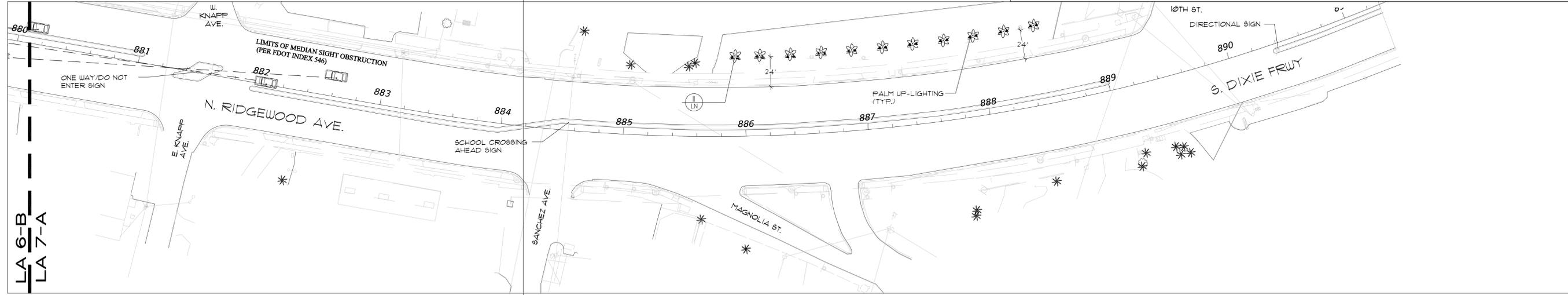
ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
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PROJECT NO: 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SIK/PM
DRAWING FILE: LA21LA
XREFS: H021ASE

SCALE:
SHEET
LA6 OF 7

LA 7-A

LA 6-B
LA 7-A



POSTED SPEED 45 MPH
DESIGN SPEED 50 MPH

POSTED SPEED 40 MPH
DESIGN SPEED 45 MPH

PLANT LIST - 10TH ST PARK

SPECIES	COMMON NAME	SPECIFICATIONS
PALMS		
LN II LIVISTONA NITIDA	CARNARVON GORGE PALM	14' C.T. MATCHED

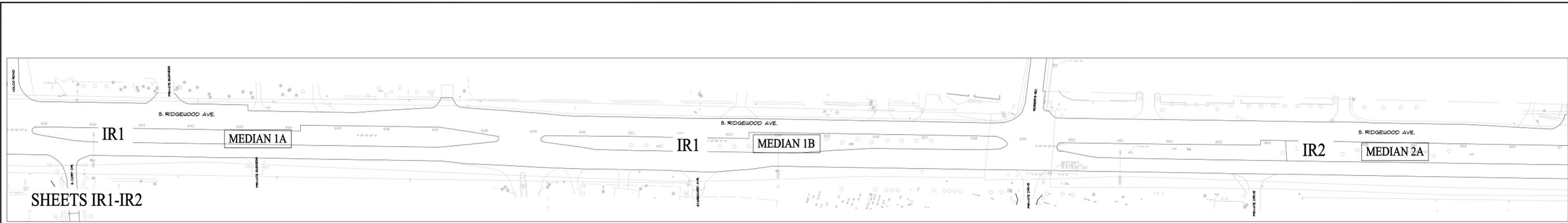


ORMOND BEACH
300 INTERSTATE 95, ORMOND BEACH, FL 32174
(386) 877-2482 FAX: (386) 877-2525
ST. AUGUSTINE
4475 U.S. 1, ST. AUGUSTINE, FL 32086
(386) 737-1610 FAX: (386) 737-4129
AMELIA ISLAND
84 ATLANTIC AVE., ORMOND BEACH, FL 32064
(386) 481-5488 FAX: (386) 481-4160

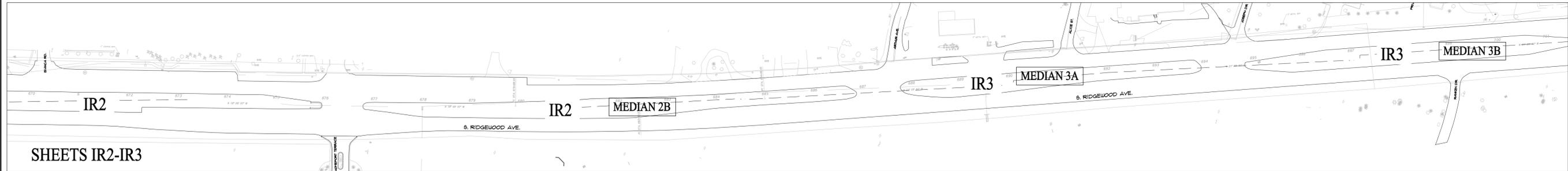
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3	6-4-16	REVISED PER FOOT COMMENTS, DATED 6-4-16
4	12-18-16	REVISED PER CITY REQUEST, DATED 12-18-16
5	3-15-16	REVISED PER CITY REQUEST
6	4-10-16	REVISED PER FOOT COMMENTS, DATED 4-10-16

US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
CITY OF EDGEWATER VOLUSIA COUNTY, FLORIDA

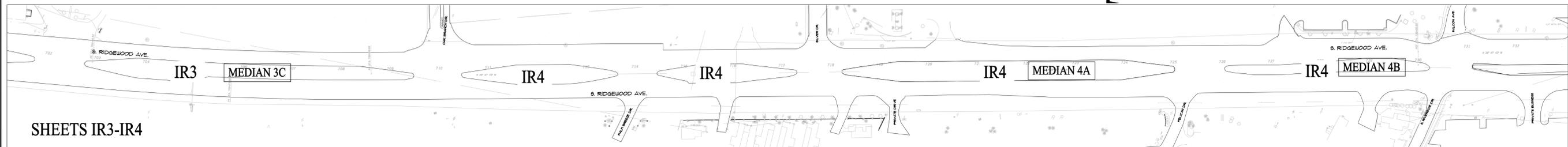
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PLANNERS - TRANSPORTATION - ENVIRONMENTAL
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PROJECT NO: 14021 DRAFTED BY: AKS
ISSUE DATE: 7-14-14 CHECKED BY: SRK/PM
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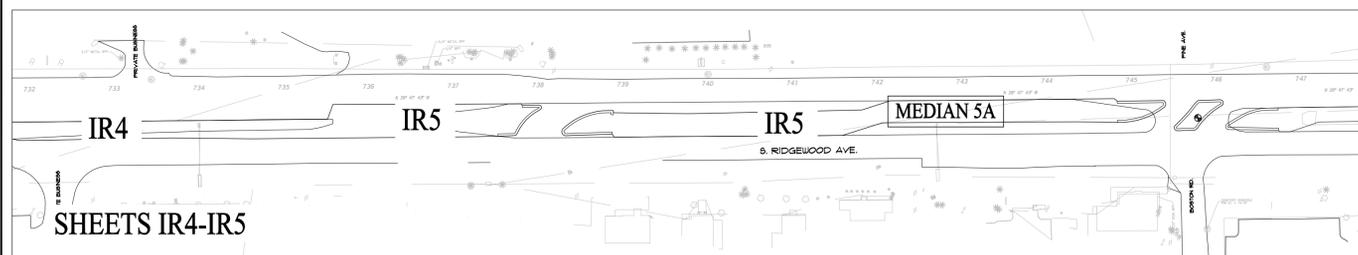
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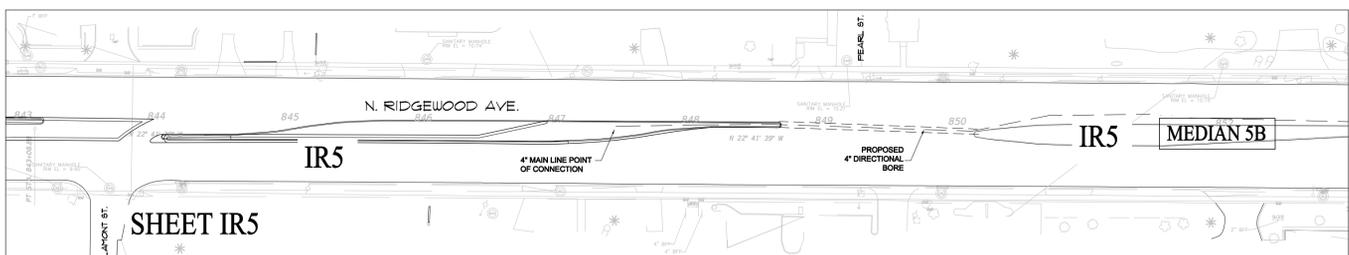
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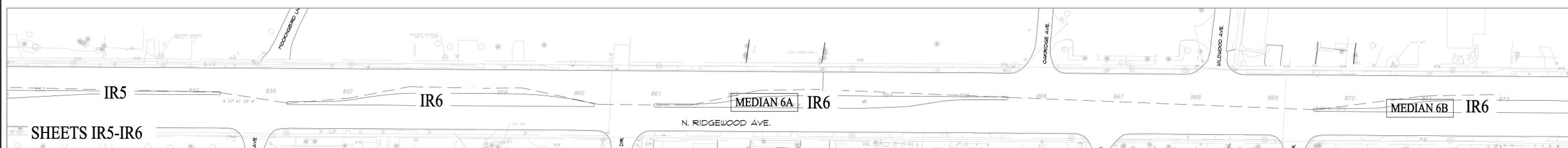
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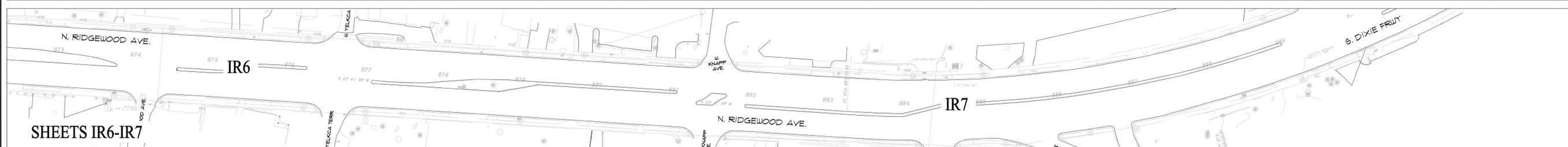
SHEETS IR4-IR5



SHEET IR5



SHEETS IR5-IR6



SHEETS IR6-IR7



ORLAND BEACH
300 INTERCHANGE
(386) 877-2482 FAX (386) 877-2505
ST. AUGUSTINE
4475 U.S. 1 S.
(904) 797-1610 FAX (904) 797-1419
AMELIA ISLAND
814 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-1459

NO.	DATE	DESCRIPTION
1.	12-15-16	REVISED PER CITY REQUEST
2.	1-24-16	REVISED PER CITY REQUEST
3.	8-24-16	REVISED PER BID REQUEST

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS
LAYOUT SHEET
VOLUSIA COUNTY, FLORIDA
CITY OF EDGEWATER

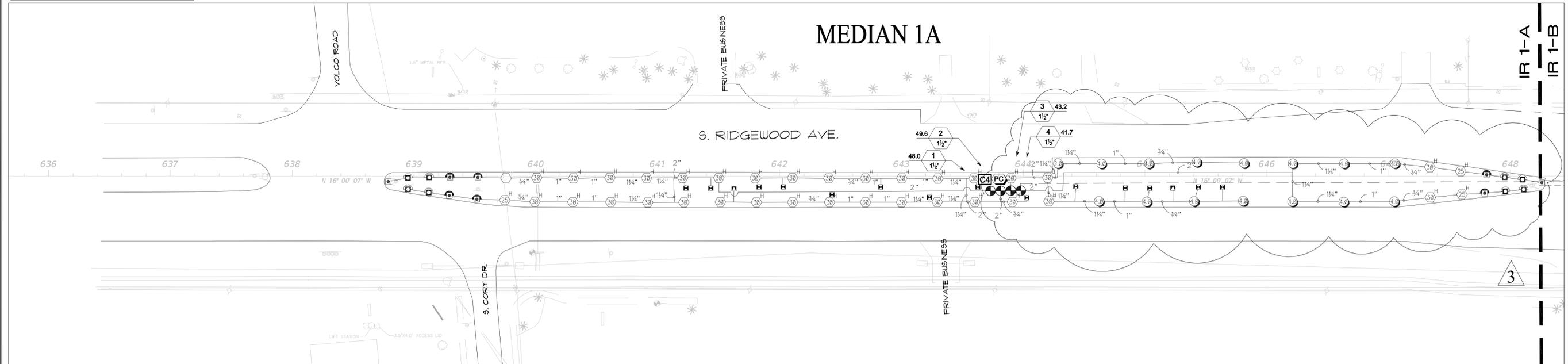
PROJECT NO. 14021	DRAFTED BY: JC
ISSUE DATE: 4-8-15	CHECKED BY: SNG/PM
DESIGNED BY: JC	DRAWING FILE: 14021_US1
	XREFS: 14021BASE

FILE LOCATION
NOT VALID WITHOUT EMBOSSED SEAL
SCALE:
SHEET LAYOUT OF 1

IR 1-A

POSTED SPEED 55 MPH

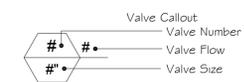
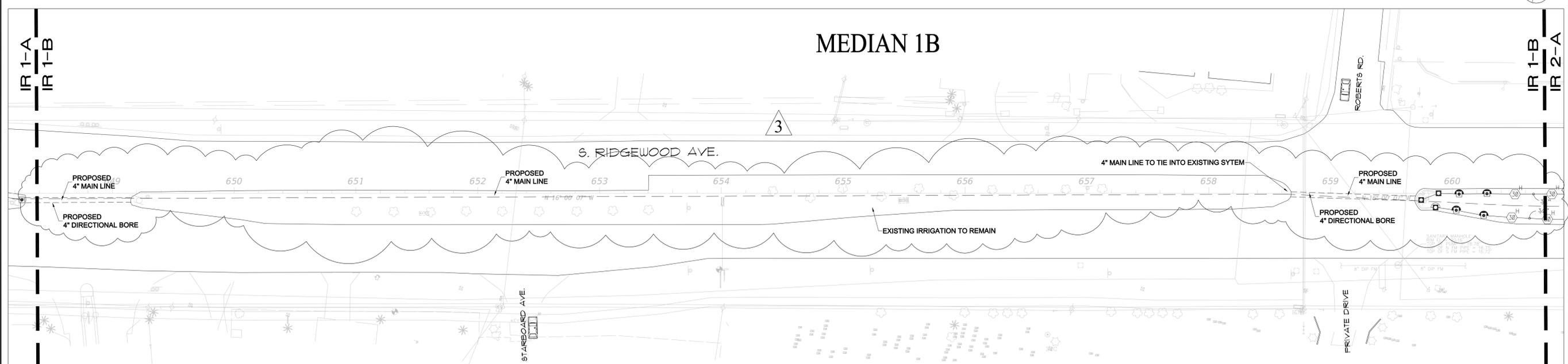
DESIGN SPEED 55 MPH



IR 1-B

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



ORLAND BEACH
300 INTERCHANGE
(386) 872-2482 FAX (386) 877-2555

ST. AUGUSTINE
4475 U.S. 1 S.
(904) 797-1610 FAX (904) 797-4159

AMELIA ISLAND
894 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	8-24-16	REVISED PER CITY REQUEST
3		REVISED PER BID REQUEST

**US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS**

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

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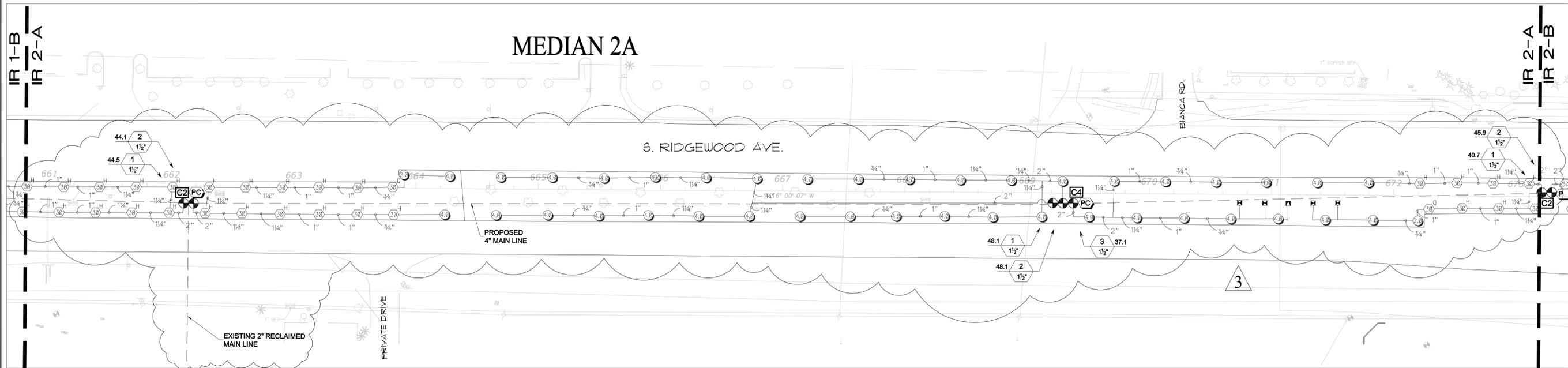
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ISSUE DATE: 4-8-15
DESIGNED BY: JC
DRAFTED BY: JC
CHECKED BY: SMGRM
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XREFS: H02BASE

FILE LOCATION: -
SCALE: -
SHEET: IR1 OF 9

IR 2-A

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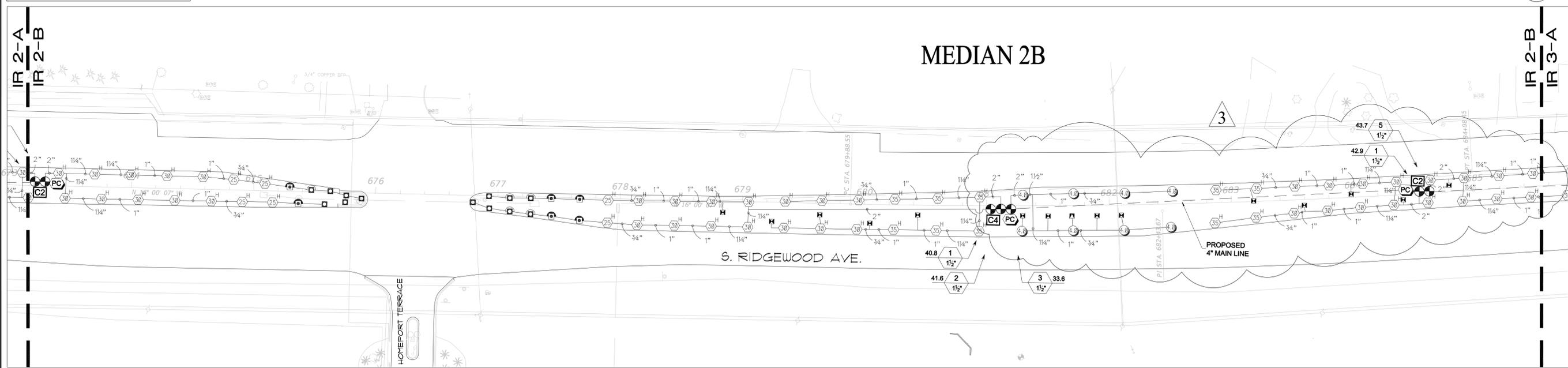
DESIGN SPEED 55 MPH



IR 2-B

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



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(386) 877-2482 FAX (386) 877-2555
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NO.	DATE	DESCRIPTION
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2	8-24-16	REVISED PER BID REQUEST
3		

REVISIONS:

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS
VOLUSA COUNTY, FLORIDA
CITY OF EDGEWATER

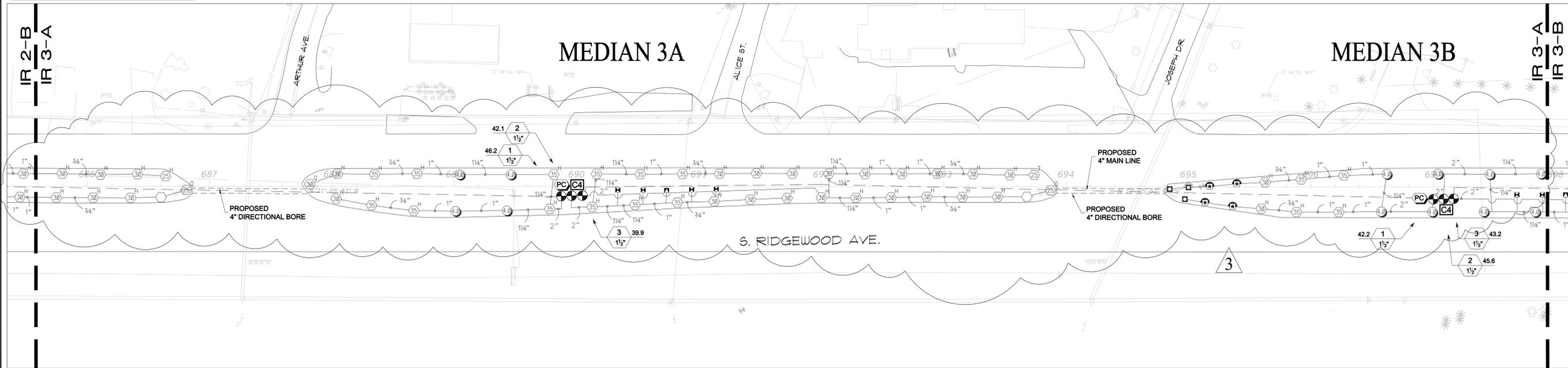
ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
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PROJECT NO. 14021 DRAFTED BY: JC
ISSUE DATE: 4-8-15 CHECKED BY: SMGPM
DESIGNED BY: JC DRAWING FILE: M017R_US1
XREFS: H02IRASE

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SCALE:
SHEET IR2 OF 9

IR 3-A

POSTED SPEED 55 MPH

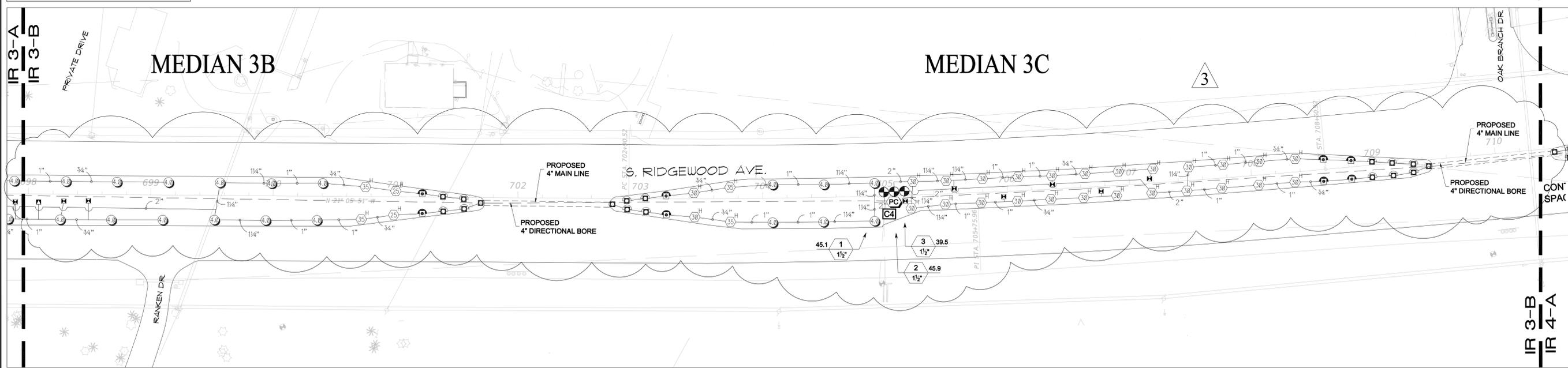
DESIGN SPEED 55 MPH



IR 3-B

POSTED SPEED 55 MPH

DESIGN SPEED 55 MPH



ORLAND BEACH
300 INTERCHANGE BLVD
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4475 U.S. 1 S.
(904) 797-1510 FAX (904) 797-4159
AMELIA ISLAND
894 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	1-24-18	REVISED PER CITY REQUEST
3	8-24-18	REVISED PER BID REQUEST

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

ZEV COHEN & ASSOCIATES, INC.
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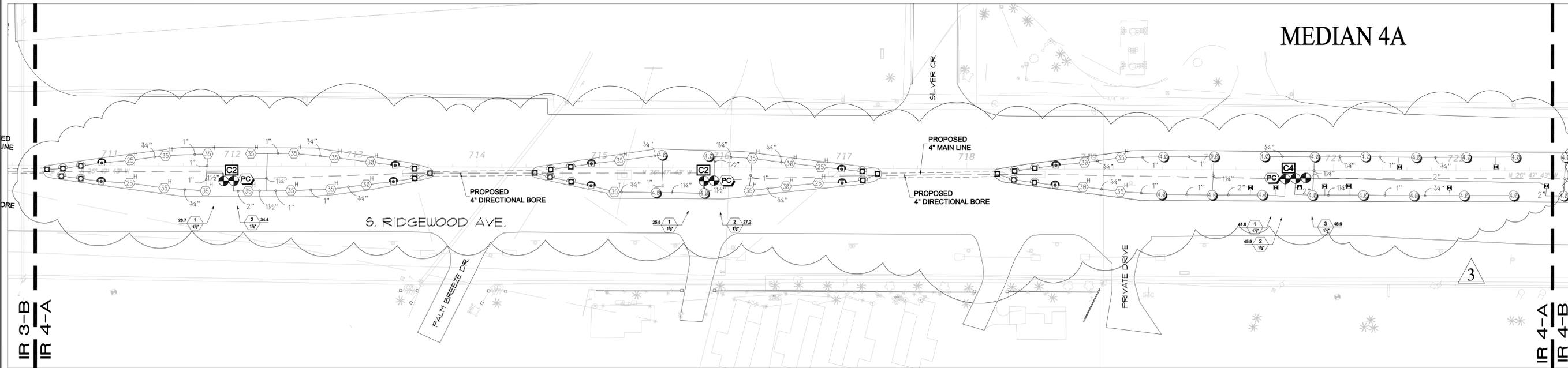
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ISSUE DATE: 4-8-15
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CHECKED BY: SMGRM
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SCALE:
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IR 4-A

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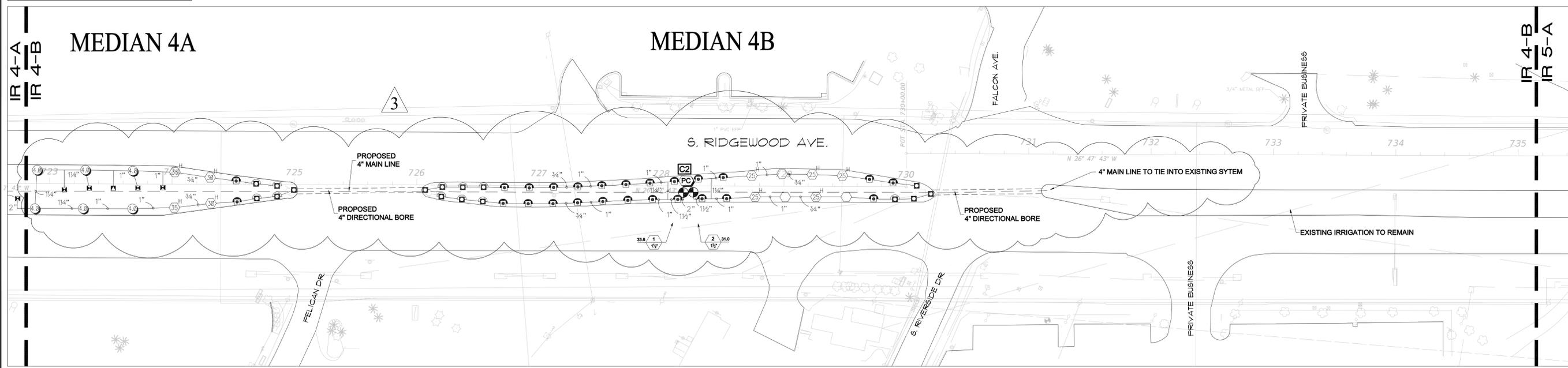
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IR 4-B

POSTED SPEED 45 MPH

DESIGN SPEED 55 MPH



ORLAND BEACH
300 INTERCHANGE
(386) 877-2482 FAX (386) 877-2555
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AMELIA ISLAND
894 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	8-24-16	REVISED PER CITY REQUEST
3		REVISED PER BID REQUEST

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
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PROJECT NO. 14021
ISSUE DATE: 4-8-15
DESIGNED BY: JC
DRAFTED BY: JC
CHECKED BY: SMGRM
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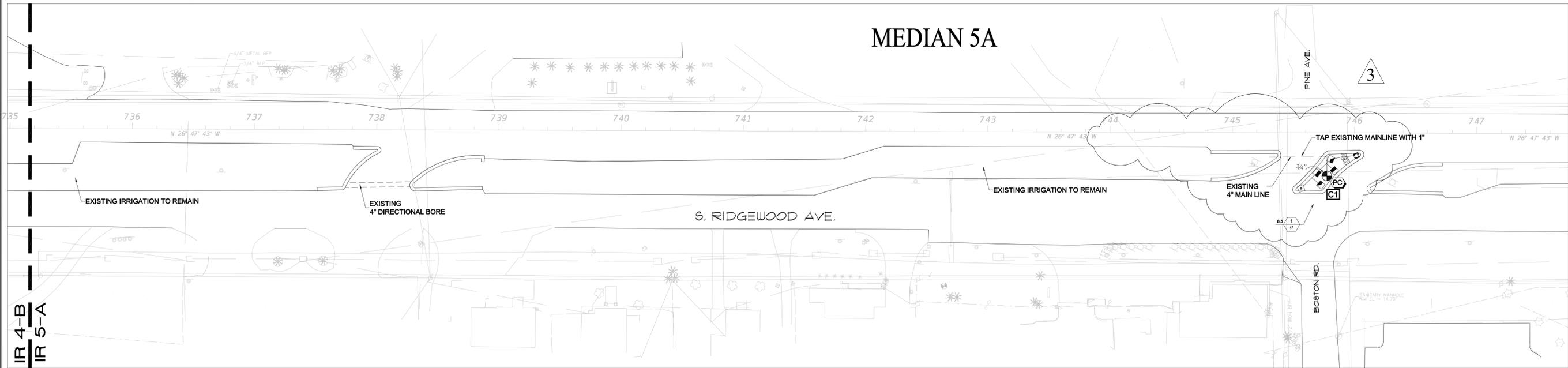
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SCALE:
SHEET IR4 OF 9

VOLUSA COUNTY, FLORIDA
CITY OF EDGEWATER

IR 5-A

POSTED SPEED 45 MPH

DESIGN SPEED 55 MPH

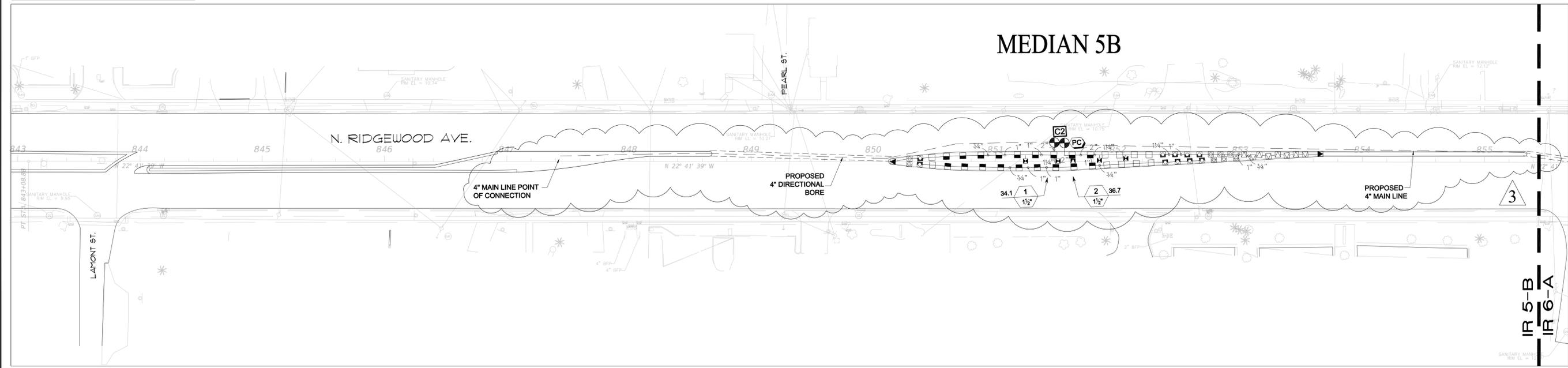


IR 4-B
IR 5-A

IR 5-B

POSTED SPEED 45 MPH

DESIGN SPEED 55 MPH



IR 5-B
IR 6-A



ORLAND BEACH
300 INTERCHANGE
(386) 877-2482 FAX (386) 877-2555
4475 U.S. 1 S. ST. AUGUSTINE FL 32086
(904) 797-1610 FAX (904) 797-4159
914 ATLANTA AVE. AMELIA ISLAND BEACH FL 32064
(904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	8-24-16	REVISED PER CITY REQUEST
3		REVISED PER BID REQUEST

REVISIONS:

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS
VOLUSIA COUNTY, FLORIDA
CITY OF EDGEWATER

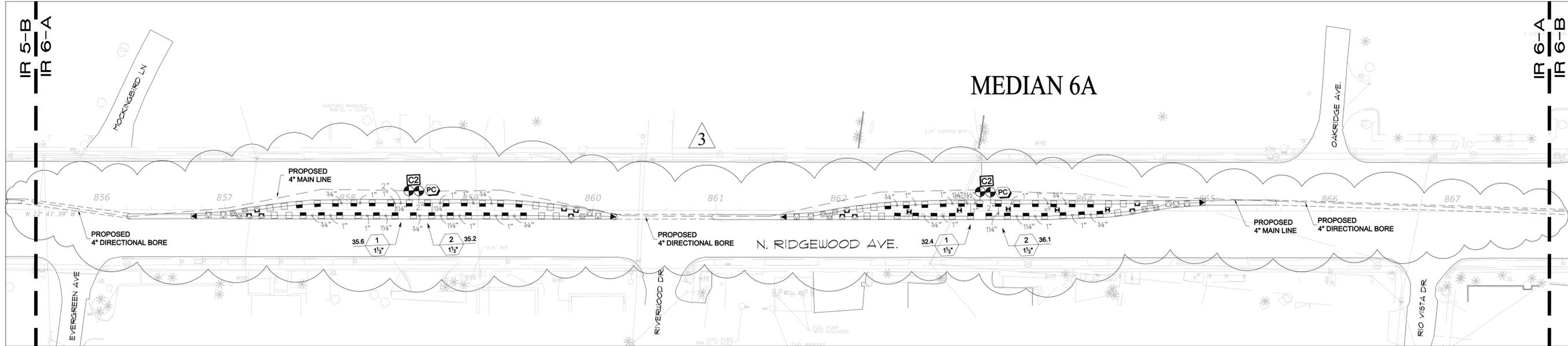
ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM
PROJECT NO. 14021
ISSUE DATE: 4-8-15
DESIGNED BY: JC
DRAFTED BY: JC
CHECKED BY: SMG/PM
DRAWING FILE: M01R5_US1
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SHEET IR5 OF 9

IR 6-A

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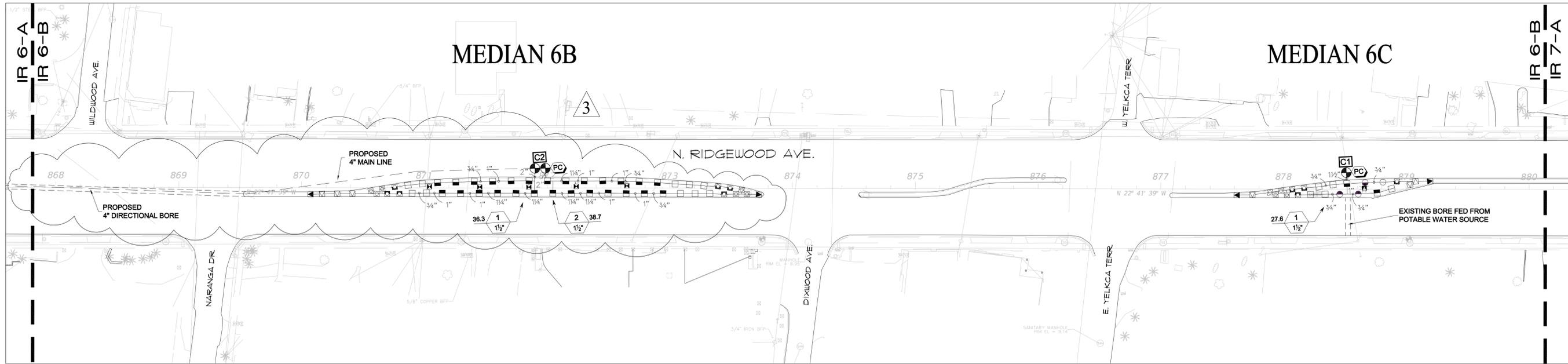
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IR 6-B

POSTED SPEED 45 MPH

DESIGN SPEED 55 MPH



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(386) 877-2482 FAX (386) 877-2555

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4475 U.S. 1 S.
(904) 797-1610 FAX (904) 797-4159

AMELIA ISLAND
894 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	8-24-16	REVISED PER BID REQUEST
3		

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL

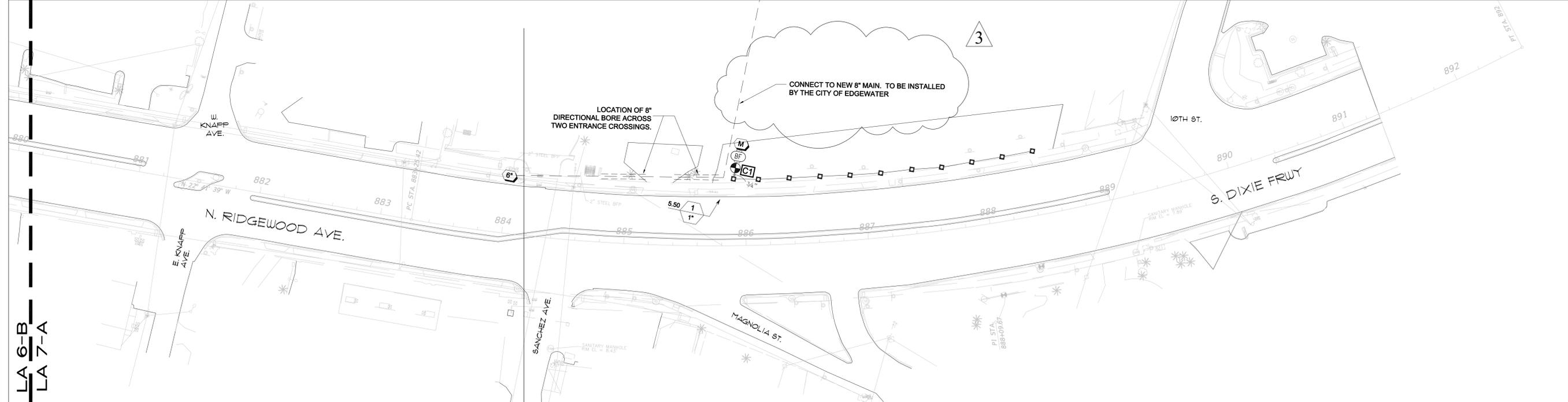
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ISSUE DATE: 4-8-15
DESIGNED BY: JC
DRAFTED BY: JC
CHECKED BY: SMG/PM
DRAWING FILE: M015L051
XREFS: H02TRASE

FILE LOCATION

NOT VALID WITHOUT EMBOSSED SEAL

SCALE:
SHEET IR6 OF 9

IR 7-A



POSTED SPEED 45 MPH
DESIGN SPEED 55 MPH

POSTED SPEED 40 MPH
DESIGN SPEED 55 MPH

LA 6-B
LA 7-A



ORLAND BEACH
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(386) 877-2482 FAX (386) 877-2505
4475 U.S. 1 S. ST. AUGUSTINE, FL 32086
(904) 797-1610 FAX (904) 797-4159
MIAMI BEACH, FL 33134
(305) 485-5438 FAX (305) 485-4159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	8-24-16	REVISED PER CITY REQUEST
3		REVISED PER BID REQUEST

**US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS**

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

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PROJECT NO: 14021
ISSUE DATE: 4-8-15
DESIGNED BY: JC
DRAFTED BY: JC
CHECKED BY: SMG/PM
DRAWING FILE: 14021R_US1
XREFS: 14021BASE

FILE LOCATION

NOT VALID WITHOUT EMBOSSED SEAL

SCALE:

SHEET **IR7** OF **9**

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
◀	Hunter PRO5-0G-PR530-R or approved equal 1.5 Strip Series	10	EST	30	0.61	4'x15'
▣	Hunter PRO5-0G-PR530-R or approved equal 1.5 Strip Series	23	SST	30	1.21	4'x30'
▢	Hunter PRO5-0G-PR530-R or approved equal 3 Series MPR	30	180	30	0.52	8'
▣	Hunter PRO5-0G-PR530-R or approved equal 1.0 Series MPR	31	180	30	0.79	10'
▣	Hunter PRO5-0G-PR530-R or approved equal 1.2 Series MPR	40	180	30	1.30	12'
▣	Hunter PRO5-0G-PR530-R or approved equal 1.5 Series MPR	96	180	30	1.85	15'
◀	Hunter PRO5-0G-PR530-R or approved equal 1.5 Series MPR	2	120	30	1.23	15'
▣	Hunter PRO5-0G-PR530-R or approved equal 1.0 Series VAN	1	Adj	30		10'
▣	Hunter PRO5-0G-PR530-R or approved equal 1.5 Series VAN	1	Adj	30		15'
⊙	Hunter PRO5-0G-PR530-R or approved equal 1.2 Series MFR	1	180	30	1.30	12'
⊙	Hunter PRO5-0G-PR530-R or approved equal 1.5 Series MFR	3	180	30	1.85	15'
▣	Hunter PRO5-0G-PR540-R MP2000 or approved equal	30	CST	40	0.01	17'
▣	Hunter PRO5-0G-PR540-R MP3000 or approved equal	5	CST	40	0.01	23'
▣	Hunter PRO5-0G-PR540-R MP2000 or approved equal	78	180	40	0.92	17'
▣	Hunter PRO5-0G-PR540-R MP3000 or approved equal	105	180	40	1.73	23'
▣	Hunter PRO5-0G-PR540-R MP3000 or approved equal	2	90	40	0.87	23'
⊠	Hunter PCB-25 Bubbler or approved equal	80	360	30	0.25	1'
⊠	Two Hunter PCB-25 Bubbler or approved equal	13	360	30	2x.25	1'
▣	Hunter PRO5-0G-PR530-R w/Maxijet ARCRHFR09H or approved equal	11	360	30	0.40	5'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
25" ARC	Hunter PGP-04-CV-R 2.0LA or approved equal	58	45	25'	
30" ARC	Hunter PGP-04-CV-R 2.5LA or approved equal	231	45	30'	
35" ARC	Hunter PGP-04-CV-R 3.0LA or approved equal	60	45	35'	
2.0	Hunter PGP-04-CV-R 2.0 or approved equal	5	45	2.07	37'
4.0	Hunter PGP-04-CV-R 4.0 or approved equal	125	45	4.01	42'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
▨	Area to Receive Dripline Hunter FLD-11Q-1.2 or approved equal On-Surface Pressure Compensating Landscape Dripline, 0.9GPH emitters at 1.2' O.C. Dripline laterals spaced at 1.6' O' apart, with emitters offset for triangular pattern. UV Resistant.	3,000 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⊙	Hunter ICV-F5 or approved equal in 1.0" Purple Valve Box with DC latching solenoid.	55
⊙	Hunter ICZ or approved equal in Jumbo Purple Valve Box with DC latching solenoid.	2
C1	Hunter NODE-100 or approved equal install in valve box for zone 1.	3
C2	Hunter NODE-200 or approved equal install in valve box for zone 2.	11
C4	Hunter NODE-400 or approved equal install in valve box for zone 2.	10
M	Water Meter 3/8" Potable	1
BF	Wilkins 975XL 1" Backflow Preventer or approved equal	1
PC	Point of Connection into 4" Reclaimed Water Main Install 4"x2" wet tap and Nibco T113 2" isolation valve or approved equal.	23
F	Future Point of Connection- Install 2" reclaim water main from median and cap for future connection.	1
8"	Point of Connection 8" Potable Water Line	1
6"	Point of Connection 6" Potable Water Line	1

----- Irrigation Lateral Line: PVC Class 200 Purple 27,500 l.f.
 - - - - - Irrigation Mainline: PVC 4" Class 200 Purple 11,200 l.f.
 - - - - - Directional Bore: HDPE 3608 IPS directional bore sized per plan. Extend bores a minimum of 30' past landscape.

3

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, 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 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 (3/8" 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 TREE SPRAYS OR 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 16".
20. IRRIGATION MAINLINES TO BE BURIED AT A DEPTH OF 20".
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. IRRIGATION CONTRACTOR SHALL CONTACT THE CITY OF EDGEWATER TO COORDINATE INSTALLATION OF POTABLE WATER METER AND BE RESPONSIBLE FOR ALL ASSOCIATED COST FOR THE INSTALLATION.
25. THE CITY OF EDGEWATER SHALL BE RESPONSIBLE FOR ALL CONSUMPTION COST FOR WATER SERVICE TO IRRIGATION SYSTEM.
26. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH 4"x2" WET TAP INTO 4" RECLAIMED WATER MAIN RUNNING IN MEDIAN. CONNECTION SHALL BE COORDINATED WITH THE CITY OF EDGEWATER.
27. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH INSTALLATION OF NEW 8" POTABLE MAIN AS NOTED ON PLAN. COORDINATE INSTALLATION WITH THE CITY OF EDGEWATER. ALL CONNECTION AND INSTALLATION OF THE 8" POTABLE MAIN SHALL BE DONE TO STATE AND LOCAL CODES AND STANDARDS.
28. 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.
29. INSTALL RECLAIM WATER ADVISORY SIGNS AT EACH GROUP OF CONTROL VALVES PER LOCAL CODE.



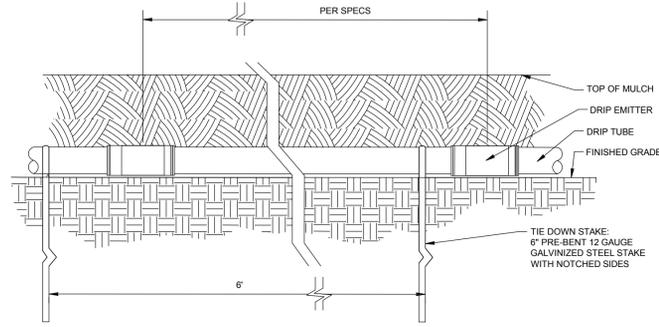
ORLANDO BEACH
 300 INTERCHANGE BLVD
 (904) 877-2482 FAX (904) 877-2505
 ST. AUGUSTINE
 4475 U.S. 1
 (904) 797-1510 FAX (904) 797-1159
 AMELIA ISLAND
 84 ATLANTIC AVE
 (904) 481-5436 FAX (904) 481-1159

NO.	DATE	DESCRIPTION
1	12-15-16	REVISED PER CITY REQUEST
2	8-24-16	REVISED PER CITY REQUEST
3		REVISED PER BID REQUEST

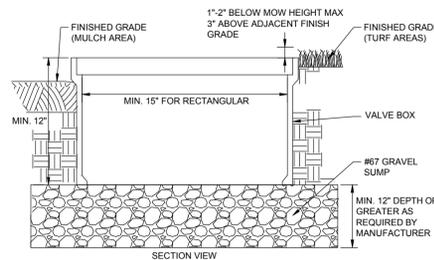
US 1 AND SR442 BEAUTIFICATION
 IRRIGATION PLANS
 NOTES & DETAILS
 VOLUSIA COUNTY, FLORIDA
 CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC. CIVIL ENGINEERS - LANDSCAPE ARCHITECTS PLANNERS - TRANSPORTATION - ENVIRONMENTAL WWW.ZEVCOHEN.COM	PROJECT NO. 14021 ISSUED DATE: 4-8-15 DESIGNED BY: JC	DRAFTED BY: JC CHECKED BY: SNG/PM DRAWING FILE: M01TR_US1 XREFS: 1402TRASE
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FILE LOCATION: -
 NOT VALID WITHOUT EMBOSSED SEAL
 SCALE:
 SHEET IR8 OF 9

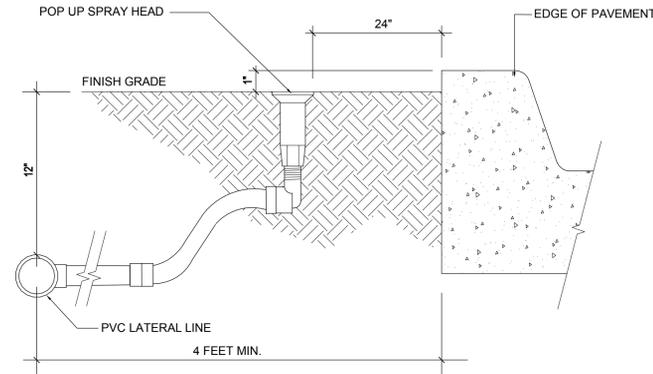


DRIP TUBE ON GRADE WITH MULCH COVER
SCALE: NTS

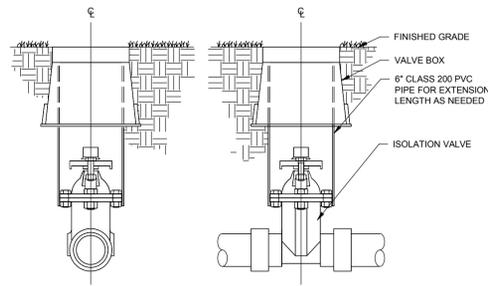


- NOTES:
1. INSTALL BOX TOP BETWEEN 1"-2" BELOW MOW HEIGHT IN TURF AREAS. INSTALL BOX 2" ABOVE MULCH IN MULCHED SHRUB AREAS.
 2. INSTALL ALL VALVES, QUICK COUPLER VALVES, WIRE SPECS, ETC., IN LANDSCAPED BEDS WHEREVER POSSIBLE AND AS FAR AWAY FROM VEHICULAR TRAVEL LANES AS FEASIBLE.
 3. INSTALL ONE VALVE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

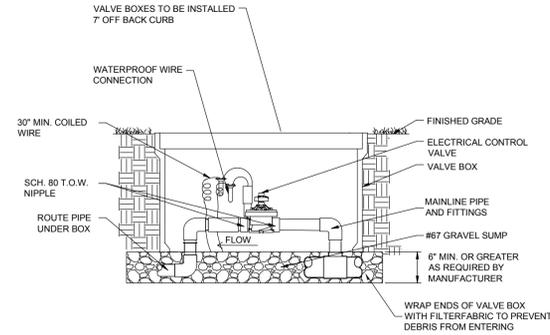
VALVE BOX DETAIL
SCALE: NTS



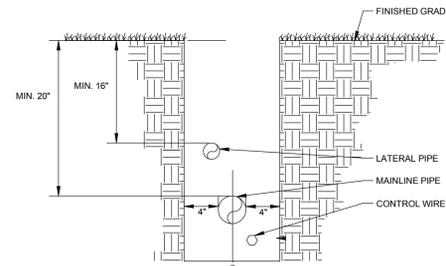
IRRIGATION HEAD INSTALLATION NEXT TO ROADWAY
SCALE: NTS



ISOLATION VALVE DETAIL
SCALE: NTS

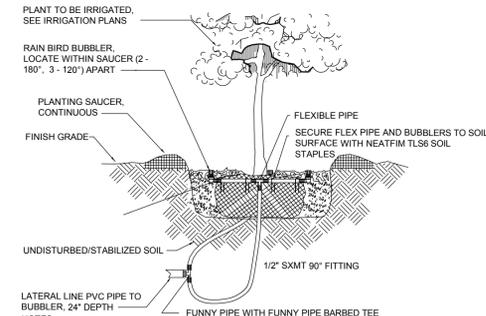


ELECTRIC CONTROL VALVE
SCALE: NTS

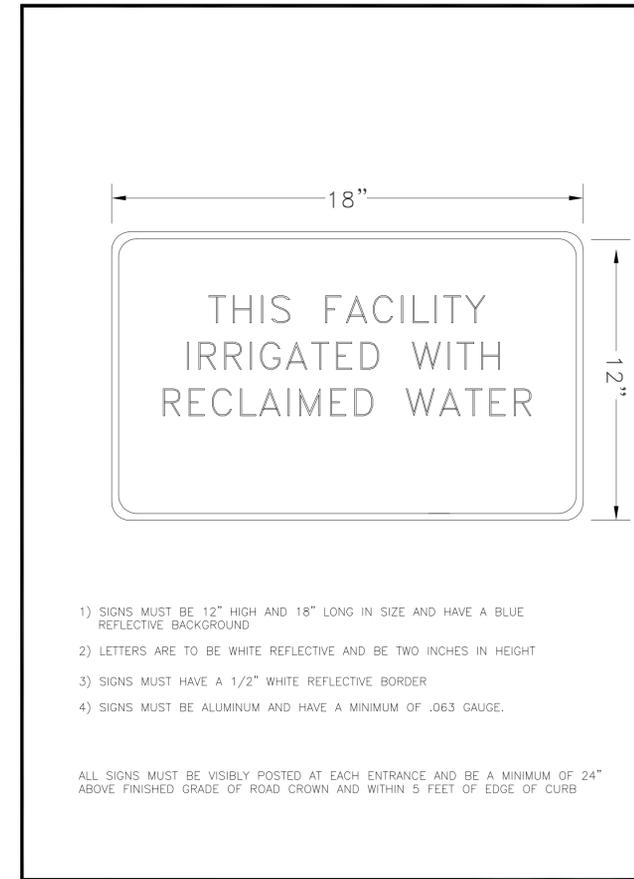


- NOTES:
1. ALL TRENCHING TO BE OUTSIDE OF EXISTING TREE DRIP LINE.
 2. NO ROCKS, BOULDERS, OR SHAPR OBJECTS TO BE IN TRENCH BACKFILL.
 3. ALL PIPE TO BE INSTALLED AS RECOMMENDED BY MANUFACTURER.
 4. AT EACH CHANGE IN MAINLINE DIRECTION INSTALL A 30\"/>

TRENCH, PIPE, AND WIRE DETAIL
SCALE: NTS



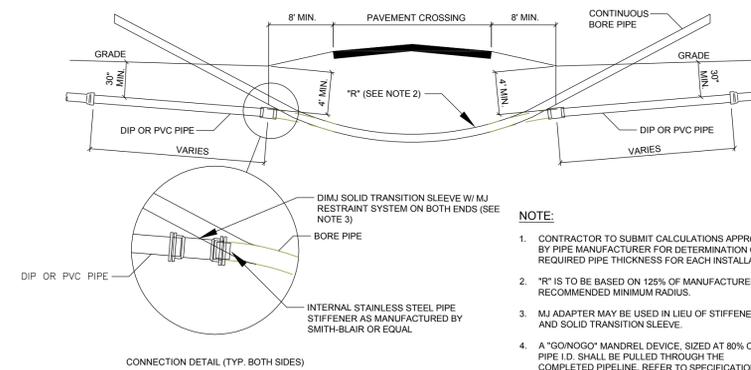
BUBBLER INSTALLATION
SCALE: NTS



- 1) SIGNS MUST BE 12" HIGH AND 18" LONG IN SIZE AND HAVE A BLUE 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

RECLAIMED WATER ADVISORY SIGN
SCALE: NTS



DIRECTIONAL BORE DETAIL
SCALE: NTS



ORLAND BEACH
300 INTERCHANGE BLVD
(386) 877-2482 FAX (386) 877-2505

ST. AUGUSTINE
4475 U.S. 1
(904) 797-1510 FAX (904) 797-4159

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US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS

VOLUSIA COUNTY, FLORIDA
CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL

PROJECT NO. 14021
ISSUE DATE: 4-8-15
DESIGNED BY: JC

DRAFTED BY: JC
CHECKED BY: SMGPM
DRAWING FILE: 14021R_US1
XREFS: 14021RASE

FILE LOCATION

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SCALE:
SHEET IR9 OF 9

GENERAL CONSTRUCTION NOTES

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONTACT SUNSHINE ONE CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES.

UTILITY AGENCY OWNER - TELEPHONE NUMBER
ELECTRIC - FLORIDA POWER & LIGHT, BEVERLY HUTTO (386) 922-3499
GAS - TECO PEOPLES GAS, GEORGE SMITH (386) 671-2292
FIBER OPTIC CABLE - AT&T, MICHAEL MOORE (386) 254-8560
TELEPHONE - BRIGHTHOUSE, SEAN RIEPEN (386) 760-5344
TRAFFIC MONITORING SITES- FDOT, CHERYL BURKE (386) 343-5360
VOLUSIA COUNTY TRAFFIC ENGINEERING - (386) 756-5368
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH RULE CHAPTER 14-42, FLORIDA ADMINISTRATIVE CODE, THE FDOT 20% DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, THE JANUARY 2006 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION EDITION AND THE FDOT JAM 2010 EDITION. CONTRACTOR TO FOLLOW ALL REQUIREMENTS OF CITY/FDOT JPA AND FDOT APPROVAL.
- CONTRACTOR TO PROVIDE EROSION AND SILTATION CONTROL MEASURES AND COORDINATED /APPROVED BY FDOT AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED IN ACCORDANCE WITH SWAMP, DEP NPDES, AND BEST MANAGEMENT PRACTICES (BMPs) STANDARDS AND REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. CONTRACTOR TO OBTAIN DEP NPDES PERMIT, IF REQUIRED.
- ALL EXISTING UTILITY BOXES AND APPURTENANCES SHALL BE RAISED TO PROPOSED GRADE AS NECESSARY. INTERRUPTIONS TO PROPOSED RIBBON CURBS MAY BE REQUIRED. CONTRACTOR TO COORDINATE IN FIELD WITH CITY OF EDGEWATER AND LANDSCAPE ARCHITECT.
- ANY EXISTING STRIPING ON SR442 DAMAGED BY THIS PROJECT MUST BE REPLACED.
- CONTRACTOR TO STAKE-OUT EACH MEDIAN FOR PLANT/TREE LOCATIONS FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR WILL BE RESPONSIBLE TO DO ANY GRADING WORK NECESSARY TO ASSURE PROPER DRAINAGE FLOW. CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS, SWALES CONVEYANCE, AND RUNOFF STORAGE CAPACITY DURING AND POST CONSTRUCTION ACTIVITIES. THE EXISTING DRAINAGE STRUCTURES SHALL NOT BE OBSTRUCTED OR MODIFIED ANYTIME.
- IT IS THE RESPONSIBILITY OF THE CITY TO MAINTAIN THE PROPOSED PROJECT LIMIT AREAS IN ACCORDANCE WITH THE FDOT MAINTENANCE RATING PROGRAM STANDARDS (MRP). REFER TO THEIR CRITERIA THROUGH THE LINK PROVIDED: <http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.htm>

LANDSCAPE NOTES

- FLORIDA #1 ALL PLANT MATERIAL SHALL BE GRADE FLORIDA NO. 1 OR BETTER IN QUALITY AS DESIGNATED IN THE MOST RECENT PUBLICATION OF "GRADES AND STANDARDS FOR NURSERY PLANTS", PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- SOD: SOD SHALL BE FLORATAM ST. AUGUSTINE GRASS UNLESS OTHERWISE SPECIFIED ON THE PLANS AS ARGENTINE BAHIA. ALL SOD SHALL BE ROLLED. CONTRACTOR TO SOD ALL AREAS THAT ARE WITHIN MEDIANS WORKED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SOD IS FREE OF WEEDS UPON INSTALLATION AND FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL TURF AREAS SHALL BE SMOOTH AND FREE OF ANY TRACK PRINTS OR UNSIGHTLY IMPURITIES CAUSED BY CONTRACTOR MACHINERY DURING CONSTRUCTION/INSTALLATION. ALL REPLACEMENT SOD SHALL BE FLORATAM ST. AUGUSTINE.
- MULCH: ALL PLANTING BEDS SHALL BE TOP DRESSED WITH 3" PINE BARK MULCH, GRADE "B" OR BETTER. ALL TREES NOT IN BEDS SHALL HAVE A 5' DIAMETER MULCH RING.
- QUANTITIES: IN THE EVENT OF A VARIATION BETWEEN THE QUANTITIES SHOWN ON THE PLANT LISTS AND THE ACTUAL QUANTITY OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- UNFORESEEN CONFLICTS: CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PORTION OF THE LANDSCAPE PLAN AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, STANDING WATER, SOIL CONDITIONS OR OTHER CONFLICTS EXIST. SUCH UNFORESEEN CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SUBSTITUTIONS: NO SUBSTITUTIONS OR VARIATIONS OF ANY PLANT MATERIAL OR ITS INSTALLED LOCATION WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL FROM THE LANDSCAPE ARCHITECT.
- CONTAINERS: IF GALLONAGE FOR PLANTS OR TREES IS SHOWN THEY SHALL BE CONTAINER GROWN AND THE SIZE SHOWN SHALL REPRESENT THE MINIMUM ALLOWABLE GALLONAGE ACCEPTED. IN ALL CASES THE PLANT SPECIFIED SIZE SHALL GOVERN OVER THE GALLONAGE INDICATED.
- SOIL: CONTRACTOR SHALL VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO THE PLANT SPECIES SPECIFIED. IF SOIL CONDITIONS ARE DEEMED UNSUITABLE FOR PROPER PLANT HEALTH, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT. IF PROPER SUBSTITUTIONS SHALL BE SPECIFIED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ADDITIONALLY, IF PRESENT, THE CONTRACTOR SHALL REMOVE LIME ROCK, CONCRETE AND OTHER DELETERIOUS DEBRIS FROM PLANTING BEDS. IF DEBRIS IS INTEGRATED IN THE SOIL, THE SOIL MUST BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOIL. LASTLY, ALL FILL TO BE PLACED IN LANDSCAPE AREAS MUST HAVE A pH RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, AND BE FREE OF ROCKS AND DEBRIS.
- TOPSOIL: TOPSOIL MATERIAL, IF REQUIRED, SHALL BE FREE FROM ALL HARD CLODS, WEEDS, STONES OVER 1" IN DIAMETER, CLAY, HARD PAN, NOXIOUS PLANTS, SOD, INSECTS, OR OTHER UNDESIRABLE PLANTS, SEEDS, OR MATERIAL WHICH MAY BE HARMFUL FOR GROWTH AND SHALL BE CERTIFIED AS STERILE.
- WEEDS: IF PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY WEEDS FROM PLANTING AREAS PRIOR TO THE INSTALLATION OF PROPOSED PLANT MATERIAL AND MULCH COVER. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BEDS FREE OF WEEDS FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD.
- GRADING: UNLESS OTHERWISE STATED ON THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED AND SODDED IN ORDER TO ELIMINATE BUMPS AND DEPRESSIONS. FINE GRADING SHALL BE DEFINED AS THE FINAL 1/2" OF GRADE TO BE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REGRADING WASHOUT AREAS CAUSED BY EROSION UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- LAYOUT: CONTRACTOR SHALL FIELD LOCATE AND STAKE ALL PROPOSED LOCATIONS OF DATE PALMS WITHIN MEDIANS FOR FDOT INSPECTION AND APPROVAL PRIOR TO PLANTING. CONTRACTOR RESPONSIBLE FOR COORDINATION WITH FDOT ON INSPECTION TIME(S), DATE(S).
- STAKING: ALL TREES, SHRUBS AND GRASS COVERS ARE TO BE PLANTED ACCORDING TO THE DETAILS IN THESE PLANS. IF THE CONTRACTOR PREFERENCES TO USE OTHER STAKING METHODS THAN SHOWN IN THE DETAILS, HE OR SHE MUST SUBMIT PROPOSED STAKING DETAILS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN, REPAIR, AND/OR REPLACE ANY PLANTS DAMAGED BY FAILURE TO PROPERLY STAKE OR GUY ANY TREES IN SITE, AT THEIR OWN EXPENSE.
- FERTILIZER: OSMOCOTE SLOW RELEASE FERTILIZER OR EQUIVALENT SHALL BE APPLIED TO ALL TREE, SHRUB, AND GRASS COVER PLANTING AREAS AT THE RATE OF THREE (3) TABLESPOONS PER 2 SF OF PLANTING AREA.
- DRAINAGE: THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT THIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHALL A CONFLICT ARISE.
- SPECIFICATIONS: THE LANDSCAPE ARCHITECT SHALL BE PERMITTED THE RIGHT DURING INSTALLATION TO REJECT ANY AND ALL PLANT MATERIAL AND WORKMANSHIP WHICH IN HIS OR HER OPINION DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.
- PERCOLATION: PERCOLATION TESTS ARE REQUIRED FOR ALL PLANTING PITS FOR PHOENIX SPP. PALM TREES AFTER THE PLANTING PIT IS DUG TO THE PROPER DEPTH, FILL PIT WITH WATER AND DOCUMENT THE AMOUNT OF TIME IT TAKES FOR THE WATER TO DRAIN FROM THE PIT COMPLETELY. NOTIFY THE OWNER'S REPRESENTATIVE TO WITNESS THE TEST.
- TURNOVER: CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE FOR A TURNOVER DATE TO INCLUDE A WALK-THROUGH AND ACCEPTANCE OF WORK BY THE LANDSCAPE ARCHITECT. ANY WORK DEEMED UNACCEPTABLE SHALL BE CORRECTED IMMEDIATELY AND REINSPECTED AS SCHEDULED.
- MAINTENANCE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE TO BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, MULCHING, MOWING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY IN ORDER TO MAINTAIN PROPER PLANT HEALTH AND SOIL MOISTURE CONTENT.
- GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR ONE (1) CALENDAR YEAR STARTING FROM THE TURNOVER DATE. SHOULD WORK BE FOUND UNACCEPTABLE ANY CORRECTED WORK SHALL HAVE A PROPORTIONAL EXTENSION OF WARRANTY ONCE APPROVED. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE TO HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FLOODING, FIRE, FREEZING TEMPERATURES, WINDS OVER 50 MPH, LIGHTNING, ANY OTHER NATURAL DISASTER, OR ANY LOSS/DAMAGE CAUSED BY VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.

IRRIGATION NOTES

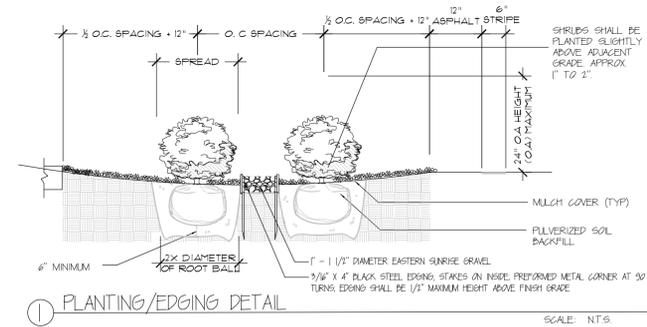
- AN AUTOMATIC TIME CONTROLLED IRRIGATION SYSTEM WITH A RAIN SENSOR SHALL BE INSTALLED TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANTINGS. IRRIGATION PLAN SHALL BE PROVIDED UPON SUBSTANTIAL SITE PLAN APPROVAL.

QUALIFICATION OF CONTRACTORS

- THE CITY OF EDGEWATER BEACH RESERVES THE RIGHT TO REQUIRE ANY BIDDER TO SUBMIT SUCH EVIDENCE OF QUALIFICATIONS AS IT MAY DEEM NECESSARY AND MAY CONSIDER EVIDENCE AVAILABLE CONCERNING THE FINANCIAL AND OTHER QUALIFICATIONS AND ABILITIES OF A CONTRACTOR. FAILURE TO PROVIDE ALL REQUIRED INFORMATION MAY RESULT IN THE PROPOSAL BEING REJECTED AS UNRESPONSIVE. THE MINIMUM QUALIFICATIONS FOR THIS PROJECT ARE AS FOLLOWS:
1. THE CONTRACTOR MUST HAVE A MINIMUM TEN (10) YEARS EXPERIENCE INSTALLING (NOT MAINTAINING) LANDSCAPE AND IRRIGATION SYSTEMS ON PROJECTS OF A SIMILAR SCOPE IN NATURE WITH VERIFIABLE REFERENCES IN THE FOLLOWING AREAS:
MUNICIPAL LANDSCAPE AND IRRIGATION CONTRACTS, PROJECTS WITHIN FDOT RIGHTS OF WAY, PROJECTS EXCEEDING \$500K AS FRAME CONTRACTOR, TWENTY (20) OR MORE DATE PALMS ON A SINGLE SITE AND PROJECT FUNDED BY COUNTY, STATE OR FEDERAL FUNDS.

BASE INFORMATION

BASE PLANS USED IN THE DEVELOPMENT OF THIS PROJECT DESIGN WERE PROVIDED BY FDOT. CONTRACTOR TO CONFIRM FINAL LAYOUT AND DIMENSIONS PRIOR TO COMMENCING WORK.

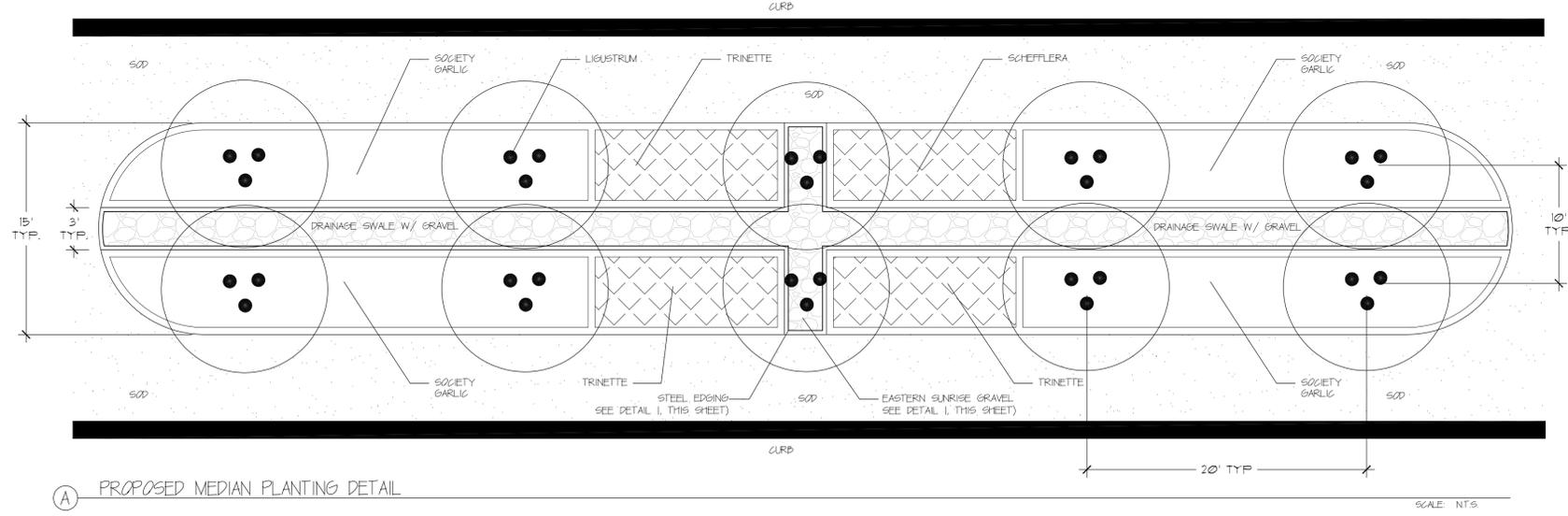


1 PLANTING/EDGING DETAIL SCALE: N.T.S.

MASTER PLANT LIST

SYMB	QUAN	SCIENTIFIC NAME	COMMON NAME	SIZE & SPACING
PALMS				
PC	15	PHOENIX CANARIENSIS	CANARY DATE PALM	12'-14' C.T., SPECIMEN
PC1	8	PHOENIX CANARIENSIS	CANARY DATE PALM	10' C.T., SPECIMEN
TREES				
LI	10	LASERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER GRAPE MYRTLE	45 GAL, 3 1/2" CAL., 12' HT., 85' C.T.
LJ	20	LIGUSTRUM JAPONICA TREE FORM	LIGUSTRUM TREE	12' X 12' MT., 85' C.T., PRUNED
N2	6	NERIUM OLEANDER	PINK OLEANDER	45 GAL., 12' HT., 8' C.T.
SHRUBS & GRASS COVERS				
MD	54	MELANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL, 10" HT. X 10" SPRD., FULL, 18" O.C.
MUG	105	MULLENBERGIA CAPILLARIS	MULHY GRASS	7 GAL., 18" HT. X 18" SPRD., 30" O.C.
NF	364	NANINA FIREPOWDER	FIREPOWDER NANINA	3 GAL., 24" HT., 18" O.C., 3-4 PPP
PFSP	100	PENNISETUM SETACEUM	FOUNTAIN GRASS	7 GAL., 24" HT., FULL, 36" O.C.
SA	180	SCHEFFLERA ARBORESCENS TRINETTE	VARIEGATED SCHEFFLERA	7 GAL., 18" SPRD X 24" HT., FULL, 30" O.C.
TV	568	TILLAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL., 12" SPRD., 18" O.C.
ZP	210	ZAMIA PUMILA	COONTIE	3 GAL., 24" HT. X 18" SPRD., FULL, 36" O.C.

NOTE: SEE LANDSCAPE PLAN, SHEETS LA1 & LA2, FOR INDIVIDUAL QUANTITIES



A PROPOSED MEDIAN PLANTING DETAIL SCALE: N.T.S.



ORLINDO BEACH
300 INTERSTATE 95
(386) 872-2482 FAX: (386) 877-2545
ST. AUGUSTINE
4475 U.S. 1 S. # 400
(386) 737-6100 FAX: (386) 737-4159
AMELIA ISLAND
84 ATLANTIC AVE.
(386) 461-5458 FAX: (386) 461-4159

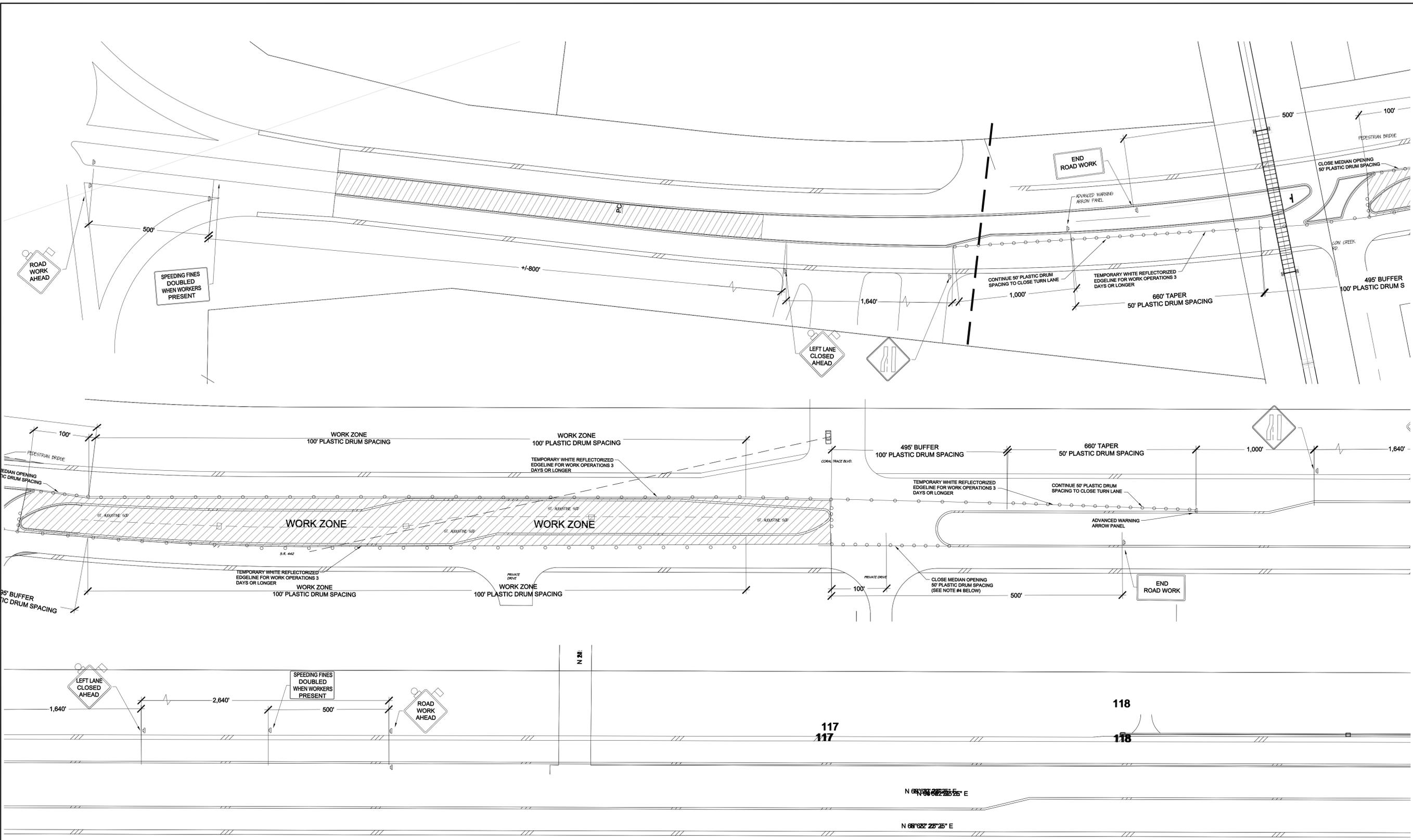
NO.	DATE	DESCRIPTION
1	1-14-13	REVISED PER FDOT COMMENTS, DATED 1-14-13
2	1-14-13	REVISED PER FDOT COMMENTS, DATED 1-14-13
3	1-14-13	REVISED PER FDOT COMMENTS, DATED 1-14-13
4	12-18-14	REVISED PER CITY REQUEST
5	1-15-15	REVISED PER CITY REQUEST
6	1-15-15	REVISED PER BID DOCUMENTS CHANGE REQUEST

REVISIONS:

**US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
NOTES & DETAILS**

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM
PROJECT NO. 14021
ISSUE DATE: 7-14-14
DESIGNED BY: PM
DRAFTED BY: AKS
CHECKED BY: SBK/PM
DRAWING FILE: US1LA
XREFS: 402EAS

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA
SCALE:
SHEET D1-1 OF 2



ORLAND BEACH, FL 32174
 300 INTERCHANGE BLVD.
 (386) 877-2482 FAX (386) 877-2505
 ST. AUGUSTINE, FL 32086
 4476 U.S. 1 S.
 (904) 797-1610 FAX (904) 797-1459
 AMELIA ISLAND BEACH, FL 32004
 84 ATLANTIC AVE.
 (904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	12-14-14	ISSUED PER FDOT COMMENTS, DATED 4-16-15
2	6-4-15	REVISED PER FDOT COMMENTS, DATED 4-16-15
3	6-4-15	REVISED PER FDOT COMMENTS, DATED 4-16-15
4	12-18-14	REVISED PER CITY REQUEST
5	3-19-16	REVISED PER CITY REQUEST
6	10-16-16	REVISED PER DOCUMENTS CHANGE REQUEST

REVISIONS:

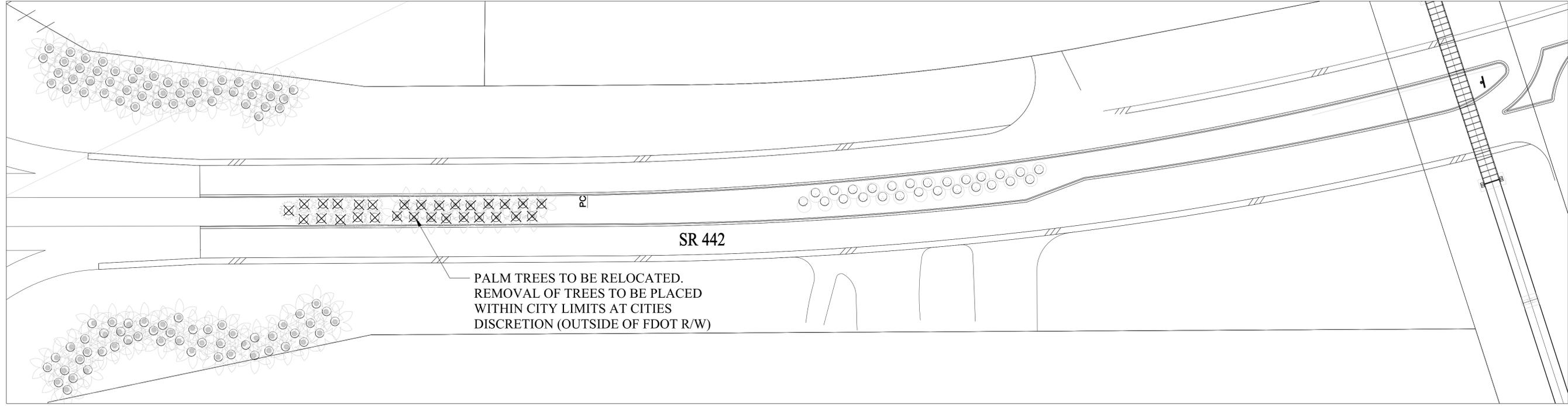
US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
MAINTENANCE OF TRAFFIC

VOLUSIA COUNTY, FLORIDA
 CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
 CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
 PLANNERS - TRANSPORTATION - ENVIRONMENTAL
 WWW.ZEVCOHEN.COM
 PROJECT NO. 14021
 DRAFTED BY: AKS
 ISSUE DATE: 7-14-14
 CHECKED BY: SBK/PM
 DRAWING FILE: 14021LA
 XREFS: 14021LASE

- NOTES**
- M.O.T. SHALL CONFORM TO THE FDOT INDICES, 2016 EDITION.
 - M.O.T. SHOWN AS A GUIDE. CONTRACTOR REQUIRED TO COORDINATE WITH FDOT FOR FINAL M.O.T. DESIGN AND APPROVAL.
 - CONTRACTOR TO PROVIDE M.O.T. SHOP DRAWINGS AND OBTAIN APPROVAL FROM F.D.O.T. CONSTRUCTION OFFICE PRIOR TO CONSTRUCTION ON EACH MEDIAN (AS FUNDING ALLOWS). M.O.T. PROVIDED HEREON IS TYPICAL AND WILL APPLY TO EACH MEDIAN CONSTRUCTION.
 - NO LANE CLOSURES DURING CITY SPECIAL EVENTS, HOLIDAYS, PEAK TRAVEL TIMES (6-8AM, 5-7PM). SIGNALIZED INTERSECTIONS SHALL BE FREE OF BARRIER DEVICES AT ALL TIMES.
 - THE WORK ZONE SPEED LIMITS THROUGHOUT THE DESIGNATED PROJECT LIMITS WILL REMAIN THE SAME AS THE POSTED 55, 45 & 40 MPH.
 - "SPECIAL EVENTS" INCLUDE, BUT ARE NOT LIMITED TO, DAYTONA SPEED WEEKS, DAYTONA BIKE WEEK, SPRING BREAK AND BIKE TOBERFEST.

SCALE:
 SHEET **D2-1** OF **2**



SHEETS LA1

NO.	DATE	DESCRIPTION
1.	1-14-14	ISSUED PER FDOT COMMENTS
2.	6-4-15	REVISED PER FDOT COMMENTS, DATED 4-16-15
3.	6-4-15	REVISED PER FDOT COMMENTS, DATED 5-20-15
4.	12-18-14	REVISED PER CITY REQUEST
5.	3-19-16	REVISED PER CITY REQUEST
2.	10-12-16	REVISED PER DOCUMENTS CHANGE REQUEST

NOTE: CUT OUT/REMOVE EXISTING SOD FROM PROPOSED NEW LANDSCAPE AREAS



ORLANDO BEACH
300 INTERCHANGE
(386) 877-2482 FAX (386) 877-2505

ST. AUGUSTINE
4475 U.S. 1 S.
(904) 797-1610 FAX (904) 797-4159

AMELIA ISLAND
814 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1.	1-14-14	ISSUED PER FDOT COMMENTS
2.	6-4-15	REVISED PER FDOT COMMENTS, DATED 4-16-15
3.	6-4-15	REVISED PER FDOT COMMENTS, DATED 5-20-15
4.	12-18-14	REVISED PER CITY REQUEST
5.	3-19-16	REVISED PER CITY REQUEST
2.	10-12-16	REVISED PER DOCUMENTS CHANGE REQUEST

US 1 AND SR442 BEAUTIFICATION
LANDSCAPE PLANS
DEMOLITION PLAN

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
PLANNERS • TRANSPORTATION • ENVIRONMENTAL
WWW.ZEVCOHEN.COM

PROJECT NO: 14021
ISSUE DATE: 7-14-14
DESIGNED BY: PM

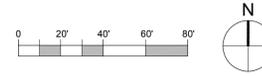
DRAFTED BY: AKS
CHECKED BY: SBK/PM
DRAWING FILE: 14021LA
XREFS: 14021BASE

SCALE:
SHEET DEM-1 OF 1

LA 2-A

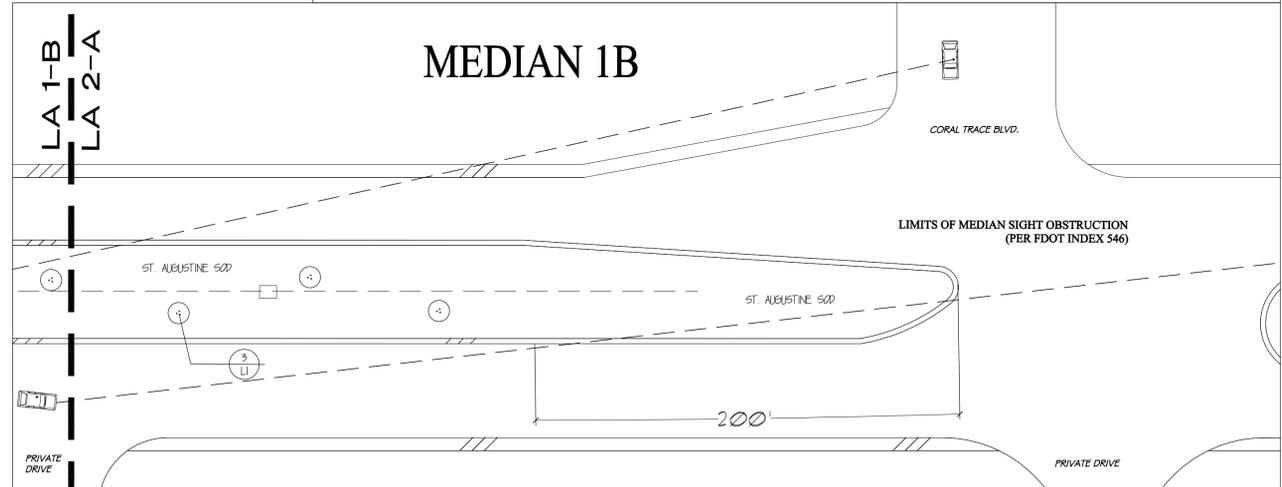
POSTED SPEED 55 MPH

DESIGN SPEED 60 MPH



PLANT LIST: MEDIAN 1B

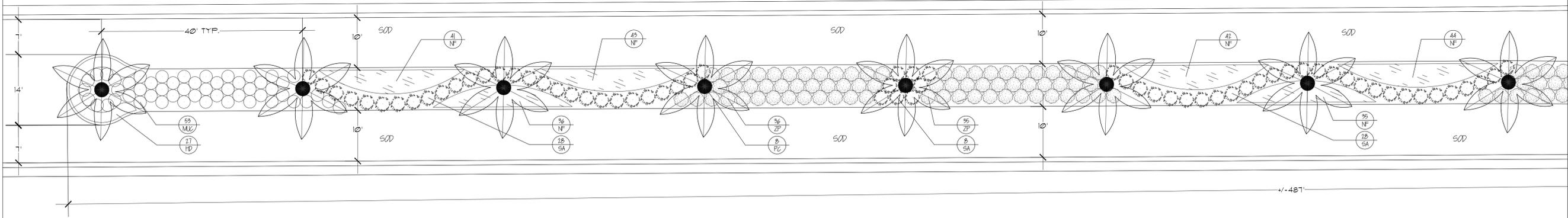
SYMB.	QUAN.	SCIENTIFIC NAME	COMMON NAME	SIZE & SPACING
TREES				
LI	10	LAGERSTRÆMIA INDICA 'MUSKOGEE'	LAVENDER GRAPE MYRTLE	65 GAL., 3 1/2" CAL., 12' HT., 8.5' C.T.
LJ	10	LIGUSTRUM JAPONICA 'TREE FORM'	LIGUSTRUM TREE	12' x 12', M.T., 8.5' C.T., PRUNED
SHRUBS & GROUNDCOVERS				
SA	40	SCHEFFLERA ARBORICOLA 'TRINETTE'	VARIEGATED SCHEFFLERA	7 GAL., 18" SPD. X 24" HT., FULL, 30" OC.
TV	254	TULBAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL., 12" SPRD., 18" OC.



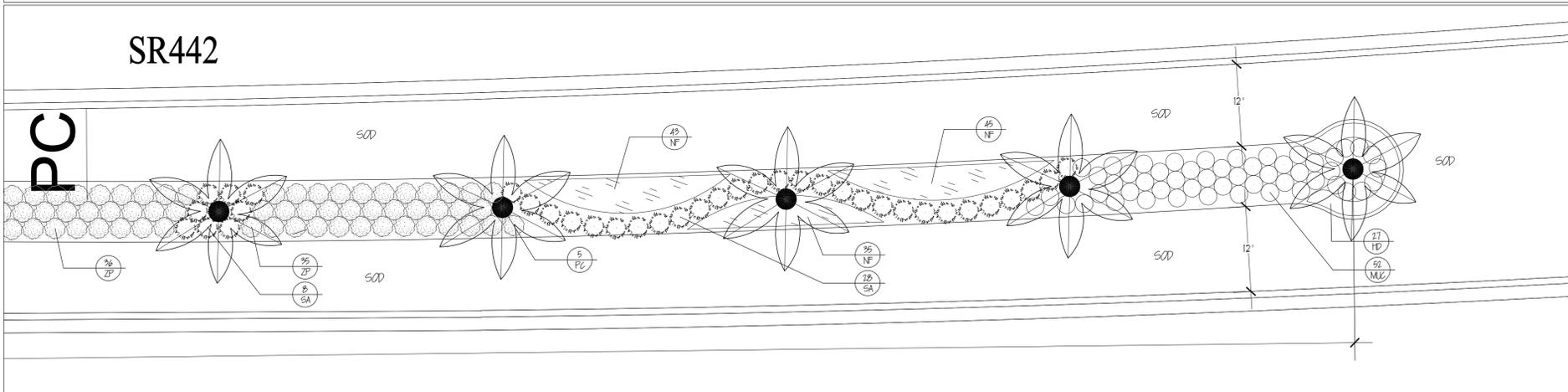
PLANT LIST: PRIMARY MEDIAN

SYMB.	QUAN.	SCIENTIFIC NAME	COMMON NAME	SIZE & SPACING
PALMS				
PC	13	PHOENIX CANARIENSIS	CANARY DATE PALM	12'-14' C.T., SPECIMEN
SHRUBS & GROUNDCOVERS				
HD	54	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL., 10" HT. X 10" SPRD., FULL, 18" OC.
MLG	105	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	7 GAL., 18" SPD. X 24" HT., FULL, 30" OC.
NF	364	NANDINA 'FIREPOWER'	FIREPOWER NANDINA	3 GAL., 24" HT., 18" OC., 3-4 PPP
SA	100	SCHEFFLERA ARBORICOLA 'TRINETTE'	VARIEGATED SCHEFFLERA	7 GAL., 18" SPD. X 24" HT., FULL, 30" OC.
ZP	142	ZAMIA PUMILA	COONTIE	3 GAL., 24" HT. X 18" SPRD., FULL, 36" OC.

SR442



SR442



(A) MEDIAN PLANTING BLOW-UP

SCALE: 1"=10'



ORLAND BEACH, FL 32174
 300 INTERCHANGE BLVD.
 (386) 877-2482 FAX (386) 877-2505
 ST. AUGUSTINE, FL 32086
 4475 U.S. 1 S. ST. AUGUSTINE BLVD.
 (904) 797-1610 FAX (904) 797-4159
 AMELIA ISLAND, FL 32034
 814 ATLANTIC AVE. ST. AUGUSTINE, FL 32084
 (904) 481-5438 FAX (904) 481-4159

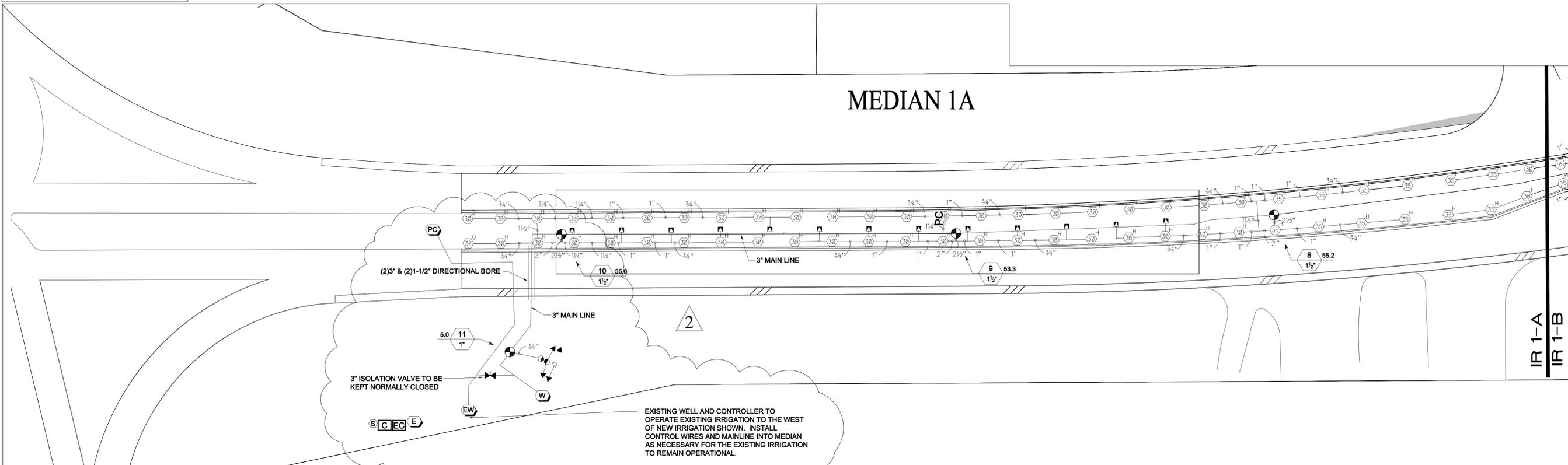
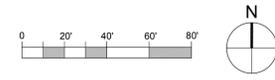
NO.	DATE	DESCRIPTION
1	11-14-13	ISSUED PER FDOT COMMENTS, DATED 4-16-13
2	6-4-15	REVISED PER FDOT COMMENTS, DATED 4-16-15
3	6-4-15	REVISED PER FDOT COMMENTS, DATED 6-26-15
4	12-18-16	REVISED PER CITY REQUEST
5	3-15-16	REVISED PER CITY REQUEST
6	10-12-16	REVISED PER DOCUMENTS CHANGE REQUEST

US 1 AND SR442 BEAUTIFICATION LANDSCAPE PLANS

ZEV COHEN & ASSOCIATES, INC.
 CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
 PLANNERS • TRANSPORTATION • ENVIRONMENTAL
 WWW.ZEVCOHEN.COM
 PROJECT NO. 14021 DRAFTED BY: AKS
 ISSUE DATE: 7-14-14 CHECKED BY: SBK/PM
 DESIGNED BY: PM DRAWING FILE: LA21A.XREFS: HQ21ASE

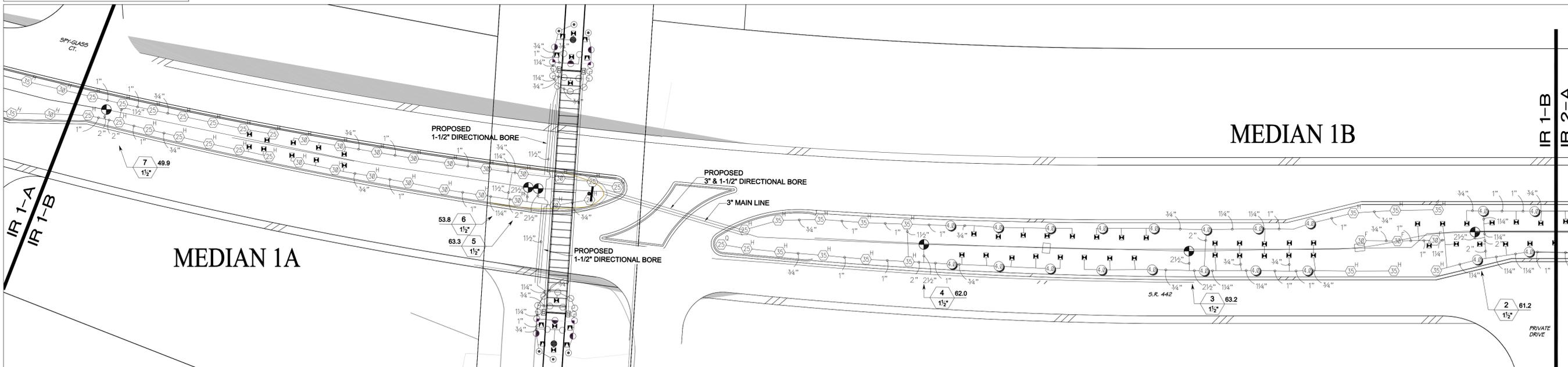
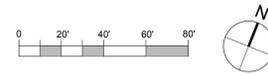
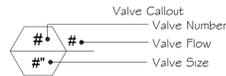
IR 1-A

POSTED SPEED 55 MPH
DESIGN SPEED 60 MPH



IR 1-B

POSTED SPEED 55 MPH
DESIGN SPEED 60 MPH



ORLAND BEACH
300 INTERCHANGE
(386) 877-2482 FAX (386) 877-2555

ST. AUGUSTINE
4475 U.S. 1 S. 737-1610 FAX (904) 797-4159

AMELIA ISLAND
814 ATLANTIC AVE. 55-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	4/7/15	ISSUED PER CITY REQUEST
2	4/7/15	REVISED PER BID DOCUMENTS CHANGE REQUEST

REVISIONS:

**US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS**

CITY OF EDGEWATER
VOLUSIA COUNTY, FLORIDA

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM

PROJECT NO. 14021
ISSUE DATE: 4-7-15
DESIGNED BY: JC

DRAFTED BY: JC
CHECKED BY: SNG/PM
DRAWING FILE: M321R_SRA42
XREFS: H421RASE

SCALE:
SHEET **IR1-1** OF **3**

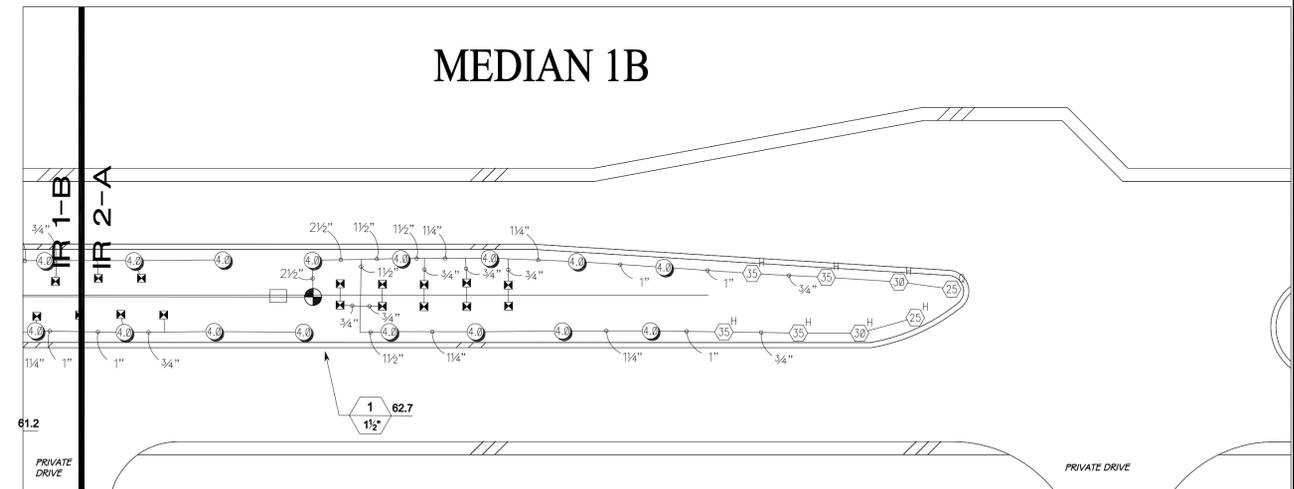
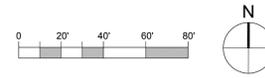
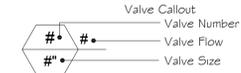
IRRIGATION NOTES:

- 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.
- 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.
- 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, 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.
- 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 THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION. OWNER'S REPRESENTATIVE SHALL DETERMINE WHETHER AN OBSTRUCTION OCCURS OR NOT.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 (3/8" AND LARGER) AND OTHER EXTRANEIOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.
- ALL MAINLINE CHANGE OF DIRECTION FITTINGS TO BE DUCTILE IRON THRUST BLOCKED PER DETAIL. ALL SERVICE TEES TO CONTROL VALVES SHALL BE PVC GASKET.
- ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMMENDED BY THE MANUFACTURER.
- 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.
- CONTRACTOR TO PLACE BUBBLERS AT OUTER EDGE OF ROOT BALL, NOT OUTER EDGE OF PLANTING HOLE.
- INSTALL HUNTER IDWIRE1 CONTROL WIRE OR APPROVED EQUAL FROM CONTROLLER TO ALL NEW VALVES SHOWN. INSTALL HUNTER HUNTER DUAL-1 DECODERS OR APPROVED EQUAL AT ALL VALVE LOCATIONS. ALL WIRE SPLICES TO BE MADE INTO HUNTER IDWIRE1 SHALL BE MADE WITH 3M-DBR6 CONNECTORS OR APPROVED EQUAL. ALL WIRES SPLICES FROM DECODER TO CONTROL VALVE SHALL BE MADE WITH 3M-DBY CONNECTORS OR APPROVED EQUAL.
- LOCATE ALL VALVES WITH A MINIMUM OFFSET OF 5'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT.
- THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL DIRECTIONAL BORING.
- ALL UN-SIZED PIPE SHALL BE 3/4".
- IRRIGATION LATERAL LINES TO BE BURIED AT A DEPTH OF 16".
- IRRIGATION MAINLINES TO BE BURIED AT A DEPTH OF 20".
- 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.
- 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.
- 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.
- DIRECTIONAL BORES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 555 FOR PRESSURIZED PIPES. INSTALL HDPE X SCHEDULE 40 FUSED ENDS ON 3" DIRECTIONAL BORES AND USE FOR MAINLINE PIPING. INSTALL WIRE THROUGH 1-1/2" DIRECTIONAL BORES RUNNING WITH MAINLINE. INSTALL HDPE X SCHEDULE 40 FUSED ENDS ON 1-1/2" DIRECTIONAL BORES AT WALKOVER BRIDGE AND USE FOR LATERAL PIPING.
- IRRIGATION CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING IRRIGATION SYSTEM THAT IS DUE TO THE INSTALLATION OF THE NEW IRRIGATION SYSTEM.
- IRRIGATION CONTRACTOR SHALL ADJUST EXISTING IRRIGATION HEAD AROUND WELCOME SIGN SO THEY DO NOT OVERLAP NEW IRRIGATION HEADS AND PROVIDE COMPLETE COVERAGE PER ORIGINAL DESIGN. ZONE 11 TO OPERATE SIMULTANEOUSLY WITH ZONE 5.

IR 2-A

POSTED SPEED 55 MPH

DESIGN SPEED 60 MPH



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
◀	Hunter PRO5-12-PRS-30 or approved equal 15 Strip Series	4	EST	30	0.61	4x15'
◁	Hunter PRO5-12-PRS-30 or approved equal 15 Strip Series	1	55T	30	1.21	4x30'
⊙	Hunter PRO5-12-PRS-30 or approved equal 8 Series MPR	4	90	30	0.26	8'
⊙	Hunter PRO5-12-PRS-30 or approved equal 10 Series MPR	1	180	30	0.79	10'
⊙	Hunter PRO5-12-PRS-30 or approved equal 10 Series MPR	1	120	30	0.53	10'
⊙	Hunter PRO5-12-PRS-30 or approved equal 12 Series MPR	4	360	30	2.60	12'
⊙	Hunter PRO5-12-PRS-30 or approved equal 12 Series MPR	10	180	30	1.30	12'
⊙	Hunter PRO5-12-PRS-30 or approved equal 12 Series MPR	4	90	30	0.65	12'
⊙	Hunter PRO5-12-PRS-30 or approved equal 15 Series MPR	2	360	30	3.70	15'
⊙	Hunter PRO5-12-PRS-30 or approved equal 15 Series MPR	6	180	30	1.85	15'
⊙	Hunter PRO5-12-PRS-30 or approved equal 15 Series MPR	4	90	30	0.92	15'
⊙	Hunter PRO5-12-PRS-30 or approved equal 15 Series	6	Adj	30	15'	
⊙	Hunter PCB-25 Bubbler or approved equal	68	360	30	0.25	1'
⊙	Two Hunter PCB-25 Bubbler or approved equal	21	360	30	2x.25	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS	
⊙	Hunter PGP-04 2.0LA or approved equal	22	45		25'	
⊙	Hunter PGP-04 2.5LA or approved equal	67	45		30'	
⊙	Hunter PGP-04 3.0LA or approved equal	30	45		35'	
⊙	Hunter PGP-04 4.0 or approved equal	34	45	4.01	42'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY				
⊙	Hunter ICV-F5 in 10" Valve Box	11				
EC	Existing Hunter ICC Controller see note	1				
C	New Hunter IC-600PI with DUAL48M Two Wire Module to be used for all new valves shown. Install DUAL decoders at all valves. Install Hunter PSR-52 pump start relay to control new pump.	1				
E	Existing Electrical Service	1				
EW	Existing 4" Well and Sbp Pump	1				
W	New 4" well with Sbp submersible pump to produce 65gpm @ 55 psi. Install 2" check valve, 2" pressure relief valve and 2" Vu-Flo filter with 100 mesh screen at discharge of well. Install pump discharge and equipment in a lock box fiberglass enclosure LB3000 on concrete pad.	1				
—	Irrigation Lateral Line: PVC Class 200 SDR 21	6,500 l.f.				
—	Irrigation Mainline: PVC 3" Class 200 SDR 21 Gasket	2,500 l.f.				
—	Directional Bore: HDPE 3608 IPS directional bore sized per plan. Extend bores a minimum of 30' past hardscape.					



ORLANDO BEACH, FL 32714
 300 INTERCHANGE BL
 (386) 877-2482 FAX (386) 877-2555
 ST. AUGUSTINE, FL 32086
 4475 U.S. 1 S. W. 1000
 (904) 797-1510 FAX (904) 797-4159
 AMELIA ISLAND, FL 32024
 814 ATLANTIC AVE. S.E.
 (904) 481-5438 FAX (904) 481-4159

NO.	DATE	DESCRIPTION
1	04/15/18	ISSUED PER CITY REQUEST
2	04/15/18	REVISED PER BID DOCUMENTS CHANGE REQUEST

US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS
NOTES & DETAILS

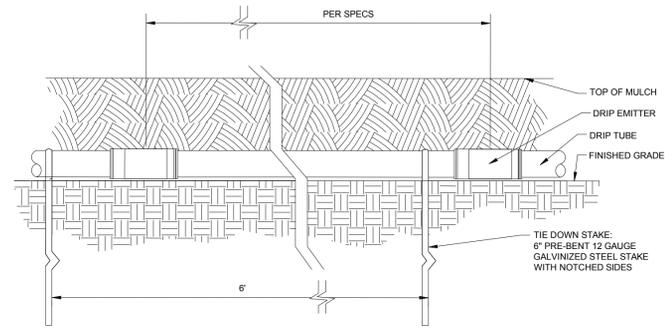
VOLUSIA COUNTY, FLORIDA
 CITY OF EDGEWATER

ZEV COHEN & ASSOCIATES, INC.
 CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
 PLANNERS • TRANSPORTATION • ENVIRONMENTAL
 WWW.ZEVCOHEN.COM

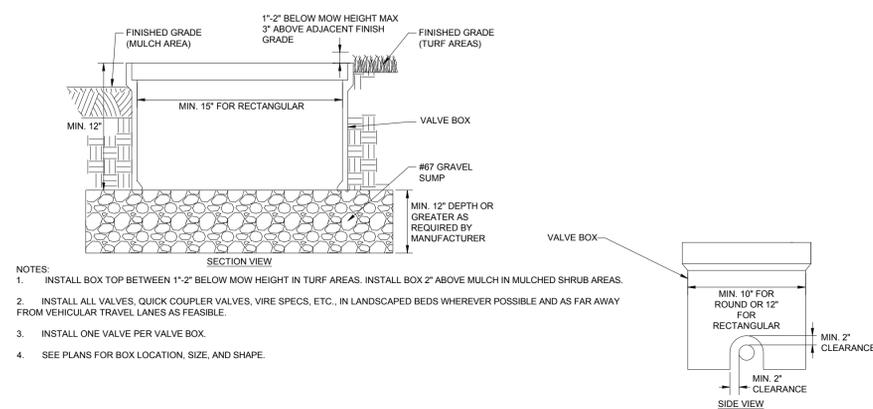
PROJECT NO. 14021
 DRAFTED BY: JC
 CHECKED BY: SMGPM
 ISSUE DATE: 4-7-18
 DRAWING FILE: M021P_S04E
 XREFS: H021BASE

DESIGNED BY: JC

SCALE:
 SHEET **IR2-1** OF **3**

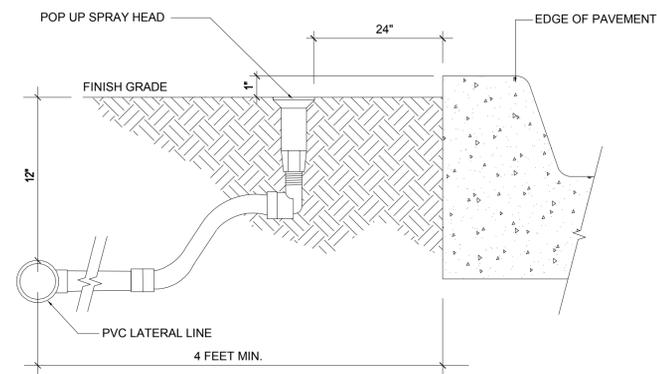


DRIP TUBE ON GRADE WITH MULCH COVER
SCALE: NTS

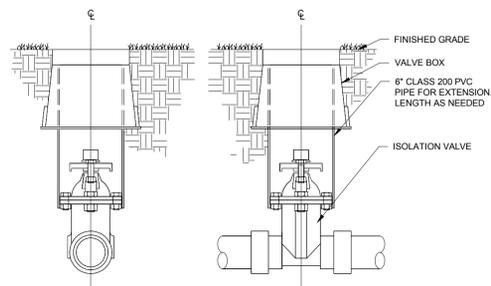


- NOTES:
1. INSTALL BOX TOP BETWEEN 1\"-2\" BELOW MOW HEIGHT IN TURF AREAS. INSTALL BOX 2\" ABOVE MULCH IN MULCHED SHRUB AREAS.
 2. INSTALL ALL VALVES, QUICK COUPLER VALVES, VIRE SPECS, ETC., IN LANDSCAPED BEDS WHEREVER POSSIBLE AND AS FAR AWAY FROM VEHICULAR TRAVEL LANES AS FEASIBLE.
 3. INSTALL ONE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

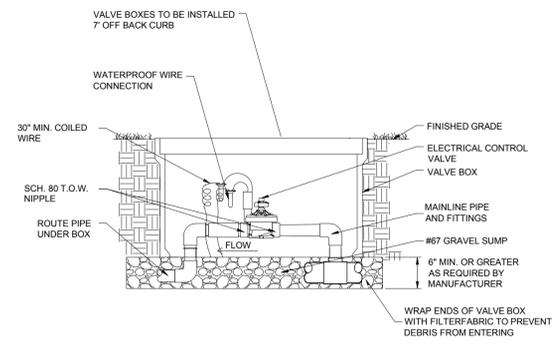
VALVE BOX DETAIL
SCALE: NTS



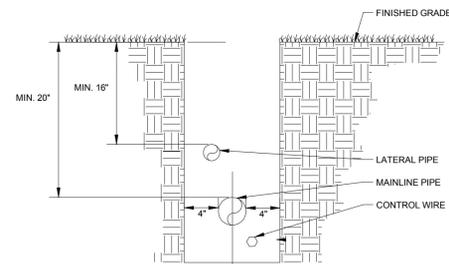
IRRIGATION HEAD INSTALLATION NEXT TO ROADWAY
SCALE: NTS



ISOLATION VALVE DETAIL
SCALE: NTS

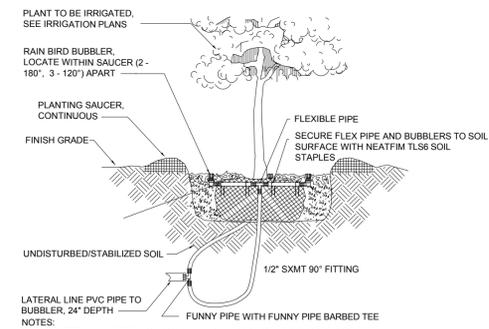


ELECTRIC CONTROL VALVE
SCALE: NTS



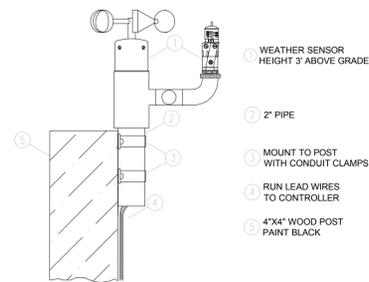
- NOTES:
1. ALL TRENCHING TO BE OUTSIDE OF EXISTING TREE DRIP LINE.
 2. NO ROCKS, BOULDERS, OR SHARP OBJECTS TO BE IN TRENCH BACKFILL.
 3. ALL PIPE TO BE INSTALLED AS RECOMMENDED BY MANUFACTURER.
 4. AT EACH CHANGE IN MAINLINE DIRECTION INSTALL A 30\" LOOP OF EXTRA WIRE.
 5. BUNDLE WIRE WITH ELECTRICAL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

TRENCH, PIPE, AND WIRE DETAIL
SCALE: NTS

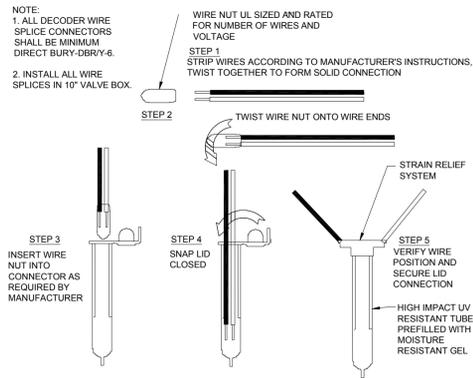


- NOTES:
1. BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES & ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER
 2. BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL OR NEXT TO TRUNK
 3. REFER TO LEGEND FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES.

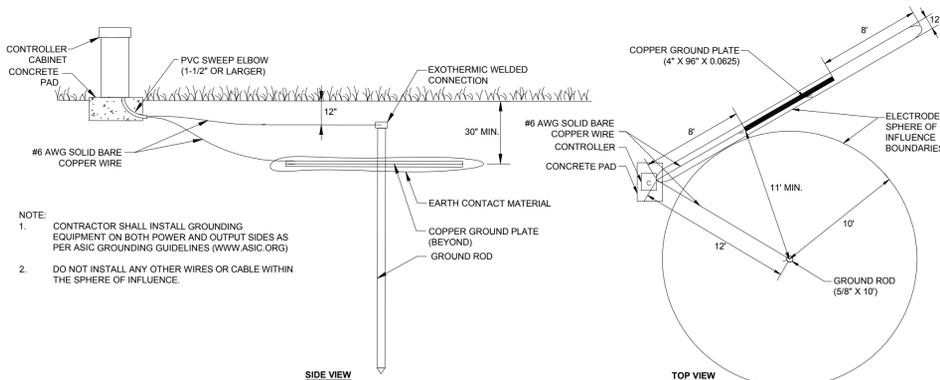
BUBBLER INSTALLATION
SCALE: NTS



WEATHER SENSOR
SCALE: NTS

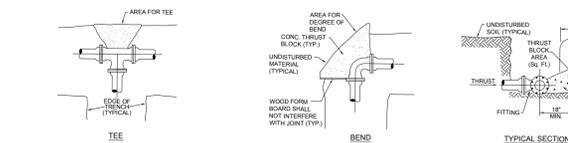


WATERPROOF WIRE CONNECTION
SCALE: NTS



- NOTE:
1. CONTRACTOR SHALL INSTALL GROUNDING EQUIPMENT ON BOTH POWER AND OUTPUT SIDES AS PER ASIC GROUNDING GUIDELINES (WWW.ASIC.ORG)
 2. DO NOT INSTALL ANY OTHER WIRES OR CABLE WITHIN THE SPHERE OF INFLUENCE.

CONTROLLER AND DECODER GROUNDING DETAIL
SCALE: NTS



PIPE SIZE (SQ. FT.)	90\"/>
3\"/>	

NOTE: Thrust block areas computed on basis of 2000 lbs. per sq. ft. for residential loading.

THRUST BLOCK DETAILS
SCALE: NTS



ORLAND BEACH
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(386) 877-2482 FAX (386) 877-2505
ST. AUGUSTINE
4475 U.S. 1 S.
(904) 797-1510 FAX (904) 797-1159
AMELIA ISLAND
814 ATLANTIC AVE.
(904) 481-5438 FAX (904) 481-1159

NO.	DATE	DESCRIPTION
1.	10/15/16	REVISED PER CITY REQUEST
2.	10/15/16	REVISED PER BID DOCUMENTS CHANGE REQUEST

**US 1 AND SR442 BEAUTIFICATION
IRRIGATION PLANS
NOTES & DETAILS**

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS - LANDSCAPE ARCHITECTS
PLANNERS - TRANSPORTATION - ENVIRONMENTAL
WWW.ZEVCOHEN.COM
PROJECT NO. 14021
ISSUE DATE: 4-7-15
DESIGNED BY: JC
DRAFTED BY: JC
CHECKED BY: SM/GPM
DRAWING FILE: 14021P1_SRA42
XREFS: 14021P1_SRA42

SCALE:
SHEET
IR3-1 OF 3

TOTAL BID FORM

ITB # 16-ES-002

REVISED PER ADDENDUM #2

“US HWY #1 AND SR #442 FDOT Landscape Beautification Project”

The total Bid Amount is to include all costs associated with completion of this project including but not limited parts and labor, overhead, operating margin and profit and all direct and indirect expenses. Please complete the breakdown of costs for all items.

No substitutes will be permitted. All blanks must be completed.

LANDSCAPING

<u>ITEM (Common Name)</u>	<u>Specification</u>	<u>QTY.</u>	<u>Unit Price</u>	<u>TOTAL</u>
Trees				
Ligustrum	12'x12'	55		
Crape Myrtle - Lavender	65 Gal.	29		
Oleander - Pink	45 Gal.	6		
Palms				
Reclinata Palm	10-12' C.T.	10		
Carnarvon Gorge Palm	14' C.T.	11		
Canary Island Date Palm	12'-14' C.T.	13		
Canary Island Date Palm	10' C.T.	8		
Shrubs & Groundcovers				
Variegated Schefflera	7 Gal.	332		
Society Garlic	1 Gal.	872		
Shore Juniper	3 Gal.	64		
Bulbine	1 Gal.	464		
Beach Dune Sunflower	1 Gal.	54		
Muhly Grass	7 Gal.	105		
Nandina 'Firepower'	3 Gal.	364		
Fountain Grass	7 Gal.	200		
Coontie	3 Gal.	320		
Rock	CY	7		
Steel Edging	LF	700		
Pensacola Bahia Sod	SF	324,000		
St. Augustine Sod	SF	98,000		
Mulch - Pine Bark	CY	152		
Relocation of Palms	EA	18		
Total of Landscaping Materials				

*Sod calculation is an estimate, sod to be replaced are for areas that are disturbed by construction activities.

DEMOLITION/IRRIGATION ITEMS

Description	Units	Quantity	Unit Cost	Total Cost
Demolition	LS	1		
US #1 Medians				
Hunter PROS-06-PRS30-R 15 Strip Series	EA	10		
Hunter PROS-06-PRS30-R 15 Strip Series	EA	23		
Hunter PROS-06-PRS30-R 8 Series MPR	EA	30		
Hunter PROS-06-PRS30-R 10 Series MPR	EA	31		
Hunter PROS-06-PRS30-R 12 Series MPR	EA	40		
Hunter PROS-06-PRS30-R 15 Series MPR	EA	98		
Hunter PROS-06-PRS30-R 15 Series MPR	EA	2		
Hunter PROS-06-PRS30-R 10 Series VAN	EA	1		
Hunter PROS-06-PRS30-R 15 Series VAN	EA	1		
Hunter PROS-06-PRS30-R 12 Series MPR	EA	1		
Hunter PROS-06-PRS30-R 15 Series MPR	EA	3		
Hunter PROS-06-PRS40-R MP2000	EA	30		
Hunter PROS-06-PRS40-R MP3000	EA	5		
Hunter PROS-06-PRS40-R MP2000	EA	78		
Hunter PROS-06-PRS40-R MP3000	EA	105		
Hunter PROS-06-PRS40-R MP3000	EA	2		
Hunter PCB25 Bubbler	EA	80		
Two Hunter PCB-25 Bubbler	EA	13		
Hunter PROS-06-PRS30-R w/Maxijet ARCHFR09H	EA	11		
Hunter PGP-04-CV-R 2.0 LA	EA	58		
Hunter PGP-04-CV-R 2.5 LA	EA	231		
Hunter PGP-04-CV-R 3.0 LA	EA	60		
Hunter PGP-04-CV-R 2.0	EA	5		
Hunter PGP-04-CV-R 4.0	EA	125		
Area to Receive Dripline				
Hunter PLD-10-12	SF	3,000		
Hunter ICV-FS 10" Purple Valve Box w/DC latching solenoid	EA	55		
Hunter ICV Jumbo Purple Valve Box w/DC latching solenoid	EA	2		
Hunter NODE-100 Install in Valve Box	EA	3		
Hunter NODE-400 Install in Valve Box	EA	11		
Hunter NODE-200 Install in Valve Box	EA	10		
Wilkins 975XL 1" Backflow Preventer	EA	1		
Point of Connection into 4" reclaimed Water Main				
Install 4" x 2" wet tap & Nibco T113 2" isolation valve	EA	23		
Future Point of Connection				
Install 2" Reclaimed Water Main from Median & Cap	EA	1		
Point of Connection 6" Potable Water Line	EA	1		
Point of Connection 8" Potable Water Line	EA	1		
Irrigation Lateral Line PVC Class 200 Purple	LF	27,500		
Irrigation Lateral Line PVC 2" Class 200 Purple	LF	1,300		
Irrigation Mainline PVC 4" Class 200 Purple	LF	11,200		
4" Directional Bore	EA	14		

Description	Units	Quantity	Unit Cost	Total Cost
SR #442 MEDIANS				
Hunter PROS-12-PRS30 15 Strip Series	EA	4		
Hunter PROS-12-PRS30 15 Strip Series	EA	1		
Hunter PROS-12-PRS30 8 Series MPR	EA	4		
Hunter PROS-12-PRS30 10 Series MPR	EA	1		
Hunter PROS-12-PRS30 10 Series MPR	EA	1		
Hunter PROS-12-PRS30 12 Series MPR	EA	4		
Hunter PROS-12-PRS30 12 Series MPR	EA	10		
Hunter PROS-12-PRS30 12 Series MPR	EA	4		
Hunter PROS-12-PRS30 15 Series MPR	EA	2		
Hunter PROS-12-PRS30 15 Series MPR	EA	6		
Hunter PROS-12-PRS30 15 Series MPR	EA	4		
Hunter PROS-12-PRS30 15 Series	EA	6		
Hunter PCB25 Bubblers	EA	68		
Two Hunter PCB-25 Bubblers	EA	21		
Hunter PGP-04 2.0 LA	EA	22		
Hunter PGP-04 2.5 LA	EA	67		
Hunter PGP-04 3.0 LA	EA	30		
Hunter PGP-04 4.0	EA	34		
Hunter ICV-FS 10" Valve Box	EA	11		
Hunter ICC Controller wtr IC-600 PL	EA	1		
Connection from Existing Well to Point of Connection	EA	1		
New 4" Well and 5 hp Pump	EA	1		
1 1/2" Directional Bore	EA	2		
3" Directional Bore	EA	2		
3" Isolation Valve and Box with Connections	EA	1		
Irrigation Lateral Line PVC Class 200 SDR 21	LF	6,500		
Irrigation Mainline PVC 3" Class 200 SDR 21 Gasket	LF	2,400		
Total of Irrigation				
Grand Total of All Bid Items				

PLEASE INCLUDE BELOW ANY OTHER POTENTIAL ADDITIONAL SERVICES THAT MAY BE REQUIRED AND ASSOCIATED COSTS.

Total Bid Amount \$ _____
(Landscaping and Irrigation)

Total Bid Amount in Words: _____

Company Name: _____

Address: _____

Telephone Number: _____

Email Address: _____

Company Authorized Representative Name: _____

Signature/Date: _____

Bid prices must include all freight charges and delivery charges for any and all material delivered to the work sight.

THE ABOVE AMOUNTS INCLUDE SALARY COST, FRINGE BENEFITS, OVERHEAD, OPERATING MARGIN AND PROFIT, AND ALL DIRECT AND INDIRECT EXPENSES.

Authorized Signature

Address

Printed Name & Title

City, State, Zip Code

Company

Telephone No.

Date

Fax No.