

COMPONENTS OF CONTRACT PLANS SET

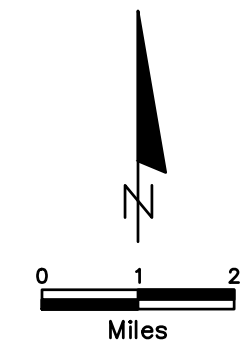
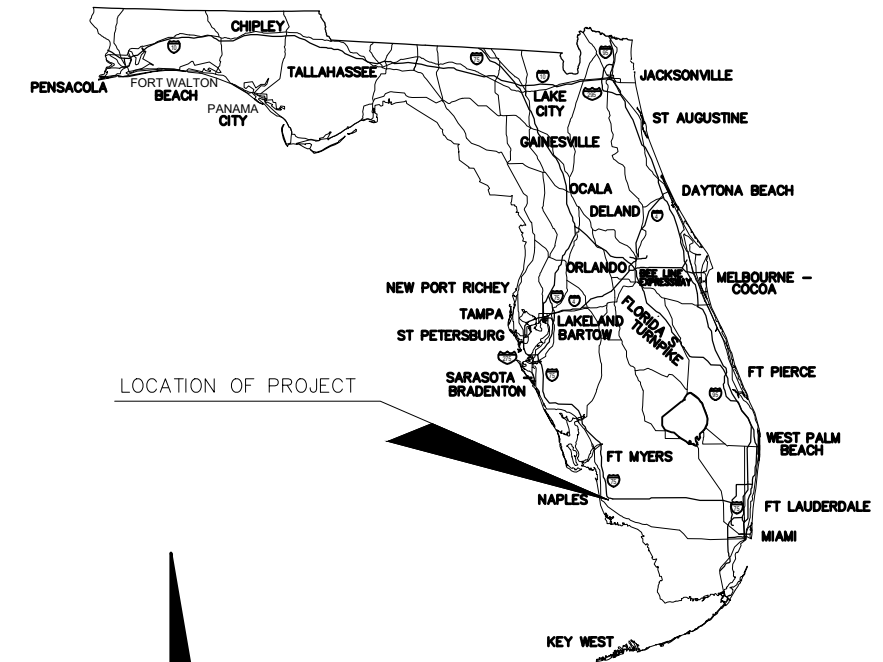
LANDSCAPE PLANS

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CITY OF NAPLES CITY COUNCIL CONTRACT PLANS

CITY OF NAPLES PROJECT ID 20-02-09-13-20F32
GOODLETTE-FRANK ROAD – PHASE 2
COUNTY ROAD NO. 851



PLANS PREPARED BY:
McGee & Associates
Landscape Architecture
DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING
5079 Tamiami Trail East * Naples, Florida 34113
Phone: (239) 417-0707 Fax: (239) 417-0708
Certificate of Authorization LC-C000098 – Michael A. McGee, LA-0000864

GENERAL PROJECT DECLARATIONS	
1.	TOTAL LANDSCAPE AREA = GREATER THAN 1 ACRE.
2.	TOTAL EXCAVATED AREA = LESS THAN 1 ACRE.
3.	EPA NPDES PERMIT NOT REQUIRED FOR PROJECTS LESS THAN 1 ACRES EXCAVATED.
4.	DESIGN SPEED 45 MPH; POSTED SPEED 45 & 40 MPH

PREPARED FOR: CITY OF NAPLES
CITY COUNCIL
NAPLES CITY HALL
735 8TH AVE. SOUTH
NAPLES, FLORIDA 34102

COORDINATING CITY AGENCY: COMMUNITY SERVICES DEPARTMENT
HEATHER SHIELDS, CITY ARBORIST
280 RIVERSIDE CIRCLE
NAPLES, FLORIDA 34102
(239) 213-7136

REVISIONS:

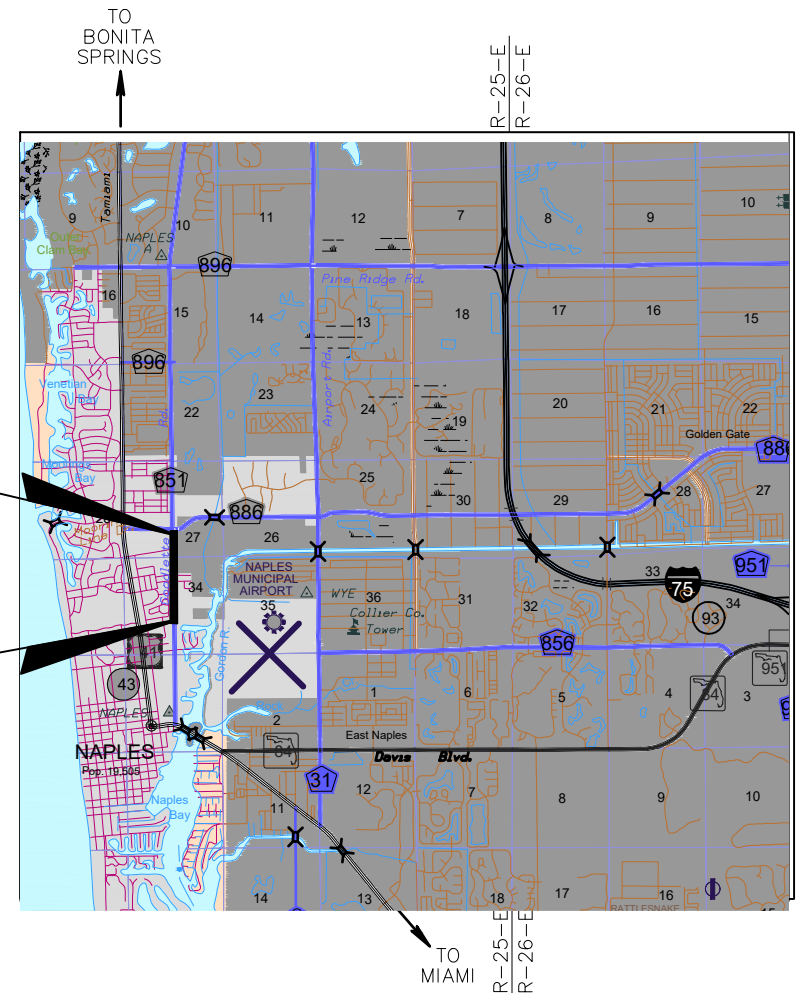
GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY 2020-21 Design Standards and Standard Plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, January, 2020, Standard Specifications for Road and Bridge Construction at the following website:

<http://www.fdot.gov/programmanagement/implemented/SpecBooks>

END PROJECT
STA. 207+63.59
(ASSUMED)

BEGIN PROJECT
STA. 157+25.00
(ASSUMED)



TO FORT LAUDERDALE
T-49-S
T-50-S

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	5,038.50	.95
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	5,038.50	.95
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	5,038.50	.95

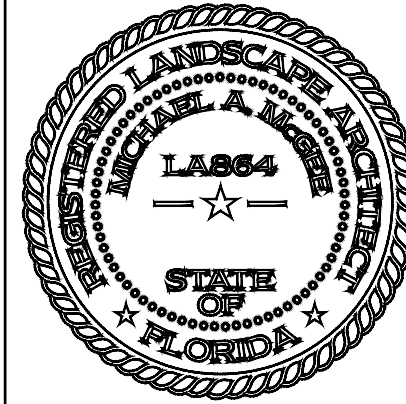
LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD:
MICHAEL A. MCGEE, RLA
L.A. NO.: LA0000864

CITY PROJECT MANAGER:
HEATHER SHIELDS, CITY ARBORIST
COMMUNITY SERVICES DEPARTMENT

LANDSCAPE SHOP DRAWINGS
TO BE SUBMITTED TO:
CITY PROJECT MANAGER

FISCAL YEAR	SHEET NO.
21	LD-1

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



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

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THE SIGNATURE MUST BE VERIFIED ON
THE ELECTRONIC DOCUMENTS.

MCGEE & ASSOCIATES
5079 TAMiami TRAIL EAST
NAPLES, FLORIDA 34113
CERTIFICATE OF AUTHORIZATION NO. LCC000098
MICHAEL A. MCGEE, L.A. NO. LA0000864

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

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DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION		McGee & Associates Landscape Architecture DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING 5079 Tamiami Trail East * Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098	CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT			LANDSCAPE PLAN SIGNATURE SHEET		SHEET NO.
										ROAD NO. COUNTY PROJECT ID CR851 COLLIER 20-02-09-13-20F32-PH2			LD-2					

SUMMARY PAY ITEMS
CNPJ: 20-02-09-13-20F32
CITY OF NAPLES: GOODLETTE-FRANK ROAD ROADWAY MEDIAN IMPROVEMENTS - PHASE 2

LINE #	BID / PAY ITEM	BID / ITEM NAME	ITEM DESCRIPTION	UNIT	QTY
MEDIAN SITE PREPARATION & IMPROVEMENTS					
1	FDOT 110-1-1	CLEARING AND GRUBBING	VEGETATION REMOVAL; TREES, PALMS, SHRUBS, GROUND COVER, TURF & MULCH (25,010 SF +/-)	AC	0.6
2	FDOT 104-18	INLET PROTECTION SYSTEM	PER APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION SECTION 104 & DESIGN STANDARD INDEX 104	LS	1
3	LSR-1 SOIL ENHANCEMENT; REMOVE (ALTERNATE)	EXISTING MEDIAN SOIL, SPECIAL DEPTH	4" TO 24" DEPTH	CY	1571
4	LSR-2 SOIL ENHANCEMENT; ADD (FDOT 162-1-33) (ALTERNATE)	MEDIAN BACKFILL SOIL, FINISHED SOIL LAYER, BLANKET SOIL LAYER, SPECIAL DEPTH	2" TO 18" DEPTH	CY	984
5	SSI-1 SOIL STRUCTURE IMPROVEMENTS: SCARIFY (ALTERNATE)	RIP AND LOOSEN EXISTING SOIL	6" TO 8" DEPTH; BOTTOM OF PROPOSED SOIL BACKFILL AREAS	SY	2110
6	FDOT 526-1-2	ARCHITECTURAL PAVERS (SIDEWALK)	BASE TO BE 6" CONCRETE	SY	282.6
7	FDOT 120-1	REGULAR SOIL EXCAVATION (PAVERS)	EXCAVATION FOR PROPOSED ARCHITECTURAL PAVERS & CONCRETE BASE (10" TO 18" +/- DEPTH)	CY	139
8	FDOT 350-3-1	PLAIN CEMENT CONCRETE PAVEMENT, 6" DEPTH	TO INCLUDE 10" X 8" EDGE RESTRAINT BEAM ALONG PAVEMENT EDGES WITH NO CURBING; EXPANSION JOINTS ALONG CURBING OR AT ENDS OF EDGE RESTRAINT BEAMS	SY	282.6
MEDIAN LANDSCAPE					
PLANT MATERIALS					
9	FDOT 580-1-1	SMALL PLANTS	INSERT 580-1-1 SUBTOTAL FROM LANDSCAPE TABULATION OF QUANTITY & PLANT SCHEDULE	EA	1
10	FDOT 580-1-2	LARGE PLANTS	INSERT 580-1-2 SUBTOTAL FROM LANDSCAPE TABULATION OF QUANTITY & PLANT SCHEDULE	EA	1
11	FDOT 580-1-101	MULCH	INSERT 580-1-101 SUBTOTAL FROM LANDSCAPE TABULATION OF QUANTITY & PLANT SCHEDULE	EA	1
12	FDOT 570-1-2	PERFORMANCE TURF	ST. AUGUSTINE 'FLORATAM' TURF SOD	SY	90
MEDIAN IRRIGATION					
12	IRRIGATION MAPPING	EXISTING IRRIGATION SYSTEMS MAPPING	LOCATE ALL EXISTING IRRIGATION SYSTEMS COMPONENTS: LOCATE WATER SOURCES, MAIN LINES, VALVE BOXES, VALVE WIRING, CONTROLLERS, SPRINKLER HEADS, SLEEVEING FOR MAIN LINE AND/OR LATERAL PIPING ROADWAY OR MEDIAN CROSSINGS AND OTHER ESSENTIAL SYSTEM COMPONENTS. TO INCLUDE REMOVAL OF EXISTING VALVE ASSEMBLIES AND CAPPING OF SERVICE TEE AND/OR MAIN LINES.	LS	1
13	FDOT 590-70 (ALTERNATE)	IRRIGATION SYSTEM	INSERT 590-70 PROJECT IRRIGATION SUBTOTAL FROM TABULATION OF QUANTITY IRRIGATION MATERIALS SCHEDULE	EA	1
14	FDOT 102-1	MAINTENANCE OF TRAFFIC (5% Project Cost Maximum)	TO INCLUDE MOT THROUGHOUT PROJECT WORK ZONES	LS	1
NOTES: (ALTERNATE) - INDICATES BID / PAY ITEMS OR COMPONENTS OF THE PAY ITEMS THAT MAYBE ADJUSTED AND/OR DELETED FROM THE PROJECT					

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL
COMMUNITY SERVICES DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
SUMMARY OF PAY ITEMS

SHEET NO.
 LD-3

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

GENERAL NOTES

PROJECT SIGHT LIMITS & CLEAR ZONE DISTANCES

C.R 851 (GOODLETTE-FRANK ROAD) (US 41 TAMIA MI TRAIL EAST)

DESIGN SPEED: 45 MPH
ROADWAY POSTED SPEED: 40 & 45 MPH

TOPIC #625-000-002, FDOT DESIGN MANUAL JANUARY 1, 2019
212 INTERSECTIONS

212.11.3 - SIGNAL CONTROL (AASHTO CASE D)

EXHIBIT 212-7 - INTERSECTION SIGHT DISTANCE: 6 LANE DIVIDED
22' OR LESS MEDIANS (P)
DESIGN SPEED 45 MPH - dx= 625 FT., dL= 445 FT., dr= 115 FT., dm= 530 FT.

TABLE 212.11.1 - SIGHT DISTANCE FOR LEFT TURN FROM HIGHWAY:
DESIGN SPEED 45 MPH - da= 430 FT., db= 165 FT.,
MEDIAN LATERAL OFFSET (HCZ) 6 FT.

212.11.6 - TREES AND VEGETATION

FIGURE 212.11.2 - WINDOW DETAIL

TABLE 212.11.3 - MINIMUM TREE SPACING (WITHIN LIMITS OF CLEAR SIGHT TRIANGLE):
DESIGN SPEED 45: 40 FT. (4" < TREE DIAMETER ≤ 11")
135 FT. (11" < TREE DIAMETER ≤ 18")

PROJECT LANDSCAPE "OFF-SETS"				
ITEM	DRAINAGE STRUCTURES	UNDERGROUND UTILITIES	OVERHEAD UTILITIES	TRAFFIC SIGNS
TREES	15 FT.	8 FT.	25 FT.	8 FT.
PALMS	8 FT.	8 FT.	25 FT.	8 FT.
LARGE SHRUBS	8 FT.	8 FT.	15 FT.	8 FT.

EXCEPTIONS OR REDUCTIONS OF OFF-SETS MAY BE GRANTED BY CITY OF NAPLES OR UTILITY AGENCY. DUE TO PIPE DEPTH A (0) FT. EXCEPTION MUST BE GRANTED FOR 20" SEWER FORCE MAIN LOCATED WITHIN MEDIANS APPROX. STA. 138+40± THRU STA. 196+00±

AREA AND/OR PROJECT SITE UTILITY OWNER CONTACT INFORMATION
NOT ALL INCLUSIVE

- | | | |
|---|-------|---------------|
| 1. CITY OF NAPLES (SEWER) | (239) | 213-4712 |
| 2. CITY OF NAPLES (WATER) | (239) | 213-4712 |
| 3. COLLIER COUNTY INFORMATION TECHNOLOGY (IT) (FIBER) | (239) | 252-6205 |
| 4. COMCAST | (754) | 221-1254 |
| 5. COLLIER COUNTY TRAFFIC OPERATIONS (FIBER & ELECTRIC) | (239) | 252-8260 |
| 6. COLLIER COUNTY STAKE & LOCATE | (239) | 252-8836 |
| 7. COLLIER COUNTY BCC RD. MAINTENANCE | (239) | 252-8924 |
| 8. FPL - COLLIER (ELECTRIC & LIGHT) | (386) | 586-6403 |
| 9. FPL - COLLIER UNDERGROUND TRANSM. | (305) | 938-1936 |
| 10. CROWN CASTLE FIBER (FIBER) | (786) | 610-7073 |
| 11. CROWN CASTLE NG (FIBER DIG TEAM) | (888) | 632-0931 X2 |
| 12. SUMMIT BROADBAND INC. (FIBER) | (239) | 325-4105 X261 |
| 13. TECO PEOPLES GAS- FT. MYERS | (813) | 275-3783 |
| 14. CENTURYLINK (PHONE & FIBER OPTIC) | (850) | 599-1444 |
| 15. AMERIGAS DBA BALGAS | (239) | 216-0843 |

LANDSCAPE NOTES:

THESE SPECIFICATIONS ARE IN ADDITION TO CITY OF NAPLES AND/OR FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARDS.

- 1) QUALIFICATIONS:
THE LANDSCAPE CONTRACTOR SHALL BE PROPERLY LICENSED AND INSURED TO PERFORM LANDSCAPE AND IRRIGATION WORK IN CITY OF NAPLES AND WITHIN FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) RIGHTS-OF-WAY.
- 2) UTILITY LOCATES:
A. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND AND OVERHEAD UTILITIES. PRIOR TO EXCAVATION AND INSTALLATION, THE CONTRACTOR SHALL CHECK WITH SUNSHINE STATE ONE-CALL OF FLORIDA / "811", AND LOCAL UTILITY AGENCIES FOR CURRENT CONTACT INFORMATION AND LOCATION OF ALL UTILITIES PER FLORIDA STATUE 553.851 (1979) OR AS AMENDED BEFORE BEGINNING WORK.
B. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL FIELD LOCATE ALL ABOVE GROUND, AT GRADE AND UNDERGROUND UTILITIES. ALL AT GRADE UTILITY BOXES AND MANHOLE ACCESS POINTS WITHIN THE MEDIANS SHALL BE MARKED AND BARRICADED OFF FOR PROTECTION.
- 3) SUBMITTALS:
A. SUPPLY THE FOLLOWING ITEMS FOR REVIEW AND APPROVAL:
 1. EXAMPLE PHOTO SUBMITTALS OF ALL PLANT MATERIALS THAT CLEARLY SHOWS CLEAR TRUNK HEIGHT, ROOT BALL MEASUREMENT, FOLIAGE, AND EVIDENCE OF REGENERATED ROOTS (WHEN APPLICABLE). PHOTOS SHALL CONTAIN MEASURING DEVICE TO SHOW HEIGHTS. PHOTOS SHALL BE SUBMITTED FOR EACH PLANT SPECIES AND CONVEY THE MINIMUM CHARACTERISTICS TO DETERMINE THAT THE PLANTS MEET A FLORIDA GRADES & STANDARDS NUMBER ONE OR BETTER GRADE.
 2. SAMPLE OF MULCH MATERIAL.
 3. FERTILIZER ANALYSIS AND MANUFACTURER'S LABEL SHOWING RECOMMENDED APPLICATION RATES.
 4. SUBMIT CERTIFIED AS-BUILT / RECORD DRAWING PLANS TO THE LANDSCAPE ARCHITECT OF RECORD AND THE PROJECT MANAGER WITHIN 14 DAYS FROM THE PROJECT'S FINAL ACCEPTANCE.
 5. IRRIGATION PIPING, CONDUITS, VALVES, WIRING AND ANY OTHER REQUIRED IRRIGATION SYSTEM COMPONENT DATA SHEETS.
 6. PREPARE AND SUBMIT A MAINTENANCE OF TRAFFIC PLAN.
- 4) PLAN DEVIATIONS:
THE PROJECT MANAGER / LANDSCAPE ARCHITECT SHALL APPROVE ANY DEVIATIONS FROM THE PLANS THAT MAY AFFECT THE DESIGN INTENT OR IS AN ISSUE WITH VEHICULAR OR PEDESTRIAN SAFETY. INSTALL NO PLANT MATERIALS THAT WILL BLOCK OR CREATE CONFLICTS WITH TRAFFIC CONTROL SIGNS, STREET LIGHTS, OVERHEAD AND UNDERGROUND UTILITIES, ACCESS WAYS, OR FIRE HYDRANTS. IMMEDIATELY NOTIFY THE PROJECT MANAGER / LANDSCAPE ARCHITECT WHEN ANY OF THESE ISSUES ARE ENCOUNTERED.
- 5) SITE PREPARATION:
A. CONTRACTOR SHALL LOCATE TO FLAG OR REMOVE ALL EXISTING IRRIGATION COMPONENT PRIOR TO CLEARING AND GRUBBING.
B. CLEARING AND GRUBBING: CONTRACTOR SHALL REMOVE ALL EXISTING GROUND COVERS, SHRUBS, AND TREES AS INDICATED ON THE PLANS WITHIN THE MEDIANS. TREE REMOVAL SHALL INCLUDE COMPLETE STUMP REMOVAL.

- 6) WATERING:
DURING PROJECT INSTALLATION PERIOD, KEEP THE SOIL MOISTURE IN ALL PLANTING AREAS TO A POINT KNOWN AS FIELD CAPACITY. DURING THE INSTALLATION PERIOD IT IS THE CONTRACTOR'S RESPONSIBILITY FOR MONITORING AND APPLYING WATER TO THE PROJECT PLANTINGS UNDER IRRIGATION. SOIL MOISTURE LEVEL SHALL BE TAKEN FROM A FOUR (4) INCH DEEP EXCAVATION, AT WHICH POINT THE SOIL SHALL HOLD TOGETHER TO FORM A HAND CLUMP, WHICH WILL BE CONSIDERED AT FIELD CAPACITY.
- 7) FERTILIZATION:
ALL PLANTS SHALL BE PLANTED WITH TIME RELEASED BURIED FERTILIZER TABLETS, (E.G. PRODUCT EXAMPLES: (AGRIFORM 21 GRAM TABLETS). AFTER SUBSTANTIAL COMPLETION ACCEPTANCE INSTALL GRANULAR 8-2-10 ULTRA FOR TREES AND SHRUBS AND 8-2-12 FOR PALMS OCT. THRU MAY OR A 6-0-15 JUN. THRU SEPT. ANALYSIS FERTILIZER. ALL FERTILIZER SHALL BE APPLIED PER MANUFACTURER'S LABEL RECOMMENDATIONS.
- 8) PRUNING:
PRUNING SHALL COMPLY WITH MOST CURRENT ANSI A300 PART 1 STANDARDS. A CERTIFIED ARBORIST SHALL OVERSEE ALL PRUNING OPERATIONS AS REQUIRED DURING CONSTRUCTION PERIOD:
 - A. TO REMOVE ALL CROSSING, DEFLECTING AND CIRCLING ROOTS.
 - B. TO MAINTAIN FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS AND UTILITY CLEARANCES.
 - C. TO COMPLY OR MAINTAIN HORIZONTAL AND VERTICAL CLEARANCES WITHIN THE LIMITS OF CLEAR SIGHT OR LIMITS OF NO SIGHT OBSTRUCTIONS.
 - D. TO MAINTAIN VISIBILITY OF TRAFFIC CONTROL SIGNS.
- 9) LITTER REMOVAL:
LITTER REMOVAL WITHIN THE CONTRACT DESIGNATED WORK AREAS SHALL BE PERFORMED THROUGHOUT THE INSTALLATION PERIOD AND UNTIL FINAL ACCEPTANCE.
- 10) LARGE TREES AND PALMS:
ALL LARGE TREES AND PALMS SHALL BE INSTALLED TO MAINTAIN THE UTILITY AGENCY'S MINIMUM HORIZONTAL SEPARATION FROM UNDERGROUND AND OVERHEAD UTILITIES. SEPARATIONS SHALL ONLY BE REDUCED THROUGH GRANTED DEVIATIONS BY THE UTILITY AGENCY. REFER TO LANDSCAPE SETBACK OR OFFSET SCHEDULE. THE LANDSCAPE ARCHITECT OF RECORD AND/OR PROJECT MANAGER SHALL APPROVE THE FLAGGED TREE LOCATIONS AND PLANTING LAYOUTS ON-SITE PRIOR TO INSTALLATIONS.
- 11) PLANTING PITS:
PLANTING PITS CONTAINING LIME ROCK OR OTHERWISE UNSUITABLE PLANT GROWING MATERIAL SHALL HAVE THE MATERIAL REMOVED PER INDEX 544 PLANTING PIT DEPTHS AND WIDTHS. UNSUITABLE MATERIAL SHALL BE REPLACED WITH FDOT LANDSCAPE SOIL MATERIAL. EXISTING SOIL BELOW THE PLANTING PIT DEPTH SHALL BE LOOSENED OR SCARIFIED AN ADDITIONAL SIX (6) INCH MINIMUM DEPTH TO PROVIDE FOR PROPER PERCOLATION OF WATER PRIOR TO BACKFILLING. AFTER SCARIFYING THE PLANT PIT SHALL BE TESTED FOR PERCOLATION AND IF IT DOES NOT DRAIN THEN ADDITIONAL MATERIAL MUST BE REMOVED AND/OR A VERTICAL OR HORIZONTAL SUB DRAIN SYSTEM INSTALLED TO REMOVE POTENTIAL STANDING WATER.
- 12) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN PLANTING AREAS, HAND RAKE PRIOR TO INSTALLING PLANTS. ALL ROCKS (2) INCHES IN DIAMETER AND GREATER SHALL BE REMOVED AND DISPOSED OFF SITE BY CONTRACTOR.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

McGee & Associates
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Certificate of Authorization LC-C000098

**CITY OF NAPLES CITY COUNCIL
COMMUNITY SERVICES DEPARTMENT**

ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

**LANDSCAPE PLAN
GENERAL NOTES (1)**

SHEET NO.
LD-4

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LANDSCAPE NOTES (Continued):

- 13) ALL EROSION CONTROL AS REQUIRED WITHIN RIGHT-OF-WAY SHALL COMPLY WITH THE FDOT'S EROSION AND SEDIMENT CONTROL MANUAL AND STANDARD SPECIFICATION SECTION 104.
- 14) ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY OF NAPLES AND/OR FDOT'S ROAD DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 15) THE CONTRACTOR SHALL NOT DURING CONSTRUCTION INTRODUCE ANY FORM OF UN-PERMITTED STORM WATER DISCHARGE INTO THE STORM WATER SYSTEMS, PAVEMENTS, RIGHT-OF-WAY AREAS OR EASEMENTS.
- 16) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND COMPLY WITH ALL APPLICABLE STATE, COUNTY, OR CITY ORDINANCES, STATUES OR POLICY REQUIREMENTS RELATED TO THE SITE PREPARATION, LANDSCAPING AND IRRIGATION WORK TO BE PERFORMED.
- 17) ALL MATERIALS USED INSIDE THE RIGHT-OF-WAY SHALL BE APPROVED BY THE CITY PRIOR TO PLACEMENT INSIDE THE RIGHT-OF-WAY. DELIVERY TICKETS OF THE MATERIALS USED INSIDE THE RIGHT-OF-WAY SHALL BE PROVIDED TO THE CITY PROJECT MANAGER.
- 18) THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS BEFORE CONSTRUCTION BEGINS. A SEPARATE UTILITY PERMIT MAYBE REQUIRED FOR ANY UTILITY CONFLICT WORK OR DIRECTIONAL BORE WITHIN THE RIGHT-OF-WAY.
- 19) CONTRACTOR IS REQUIRED TO CONTACT THE FOLLOWING PRIOR TO COMMENCEMENT OF WORK UNDER CONTRACT:
A. CITY PROJECT MANAGER
- 20) MULCH:
ALL MULCH SHALL BE 100% SHREDDED WOOD MATERIAL. "USE OF CYPRESS MULCH IS PROHIBITED". MULCH SHALL BE APPLIED TO ALL PLANTINGS PER FDOT FY 2020-21 INDEX 580-001 TO A MINIMUM THREE (3) INCHES. MINIMUM MULCH DEPTH SHALL BE MAINTAINED THROUGH INSTALLATION PERIOD TO FINAL ACCEPTANCE.

ALL TREES AND PALMS SHALL HAVE A FOUR (4) FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA. NO MULCH SHALL BE IN CONTACT WITH ANY TREE TRUNKS.

A MINIMUM TWO (2) FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE AND THE BACK OF CURBING OR PAVEMENT.
- 21) CONDUIT & MAIN TRENCHING RESTORATION:
ALL CONDUIT AND IRRIGATION PIPE TRENCHING THROUGH EXISTING LANDSCAPED MEDIANS WILL REQUIRE RESTORATION OF THE DISTURBED SOIL TO BE RETURNED TO ORIGINAL / EXISTING CONDITIONS TO INCLUDE TRENCHING DEBRIS REMOVAL, BACKFILL AND FINISHED GRADING.
- 22) THE SMALL SHRUBS AND GROUND COVERS PLANTED IN THE MEDIANS SHALL HAVE THE FIRST OR OUTSIDE ROW OF PLANTS OFFSET FROM BACK OF CURBING OR PAVEMENT FOUR AND ONE HALF (4.5) FEET. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE EQUALLY SPACED BETWEEN THE OUTSIDE ROWS TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT TO CREATE A TRIANGULAR PLANT SPACING PATTERN.
- 23) PLANT INSTALLATIONS SHALL BE PER FDOT FY 2020-21 DESIGN STANDARD INDEX 580-001 "LANDSCAPE INSTALLATION" SHEETS 1 & 2.

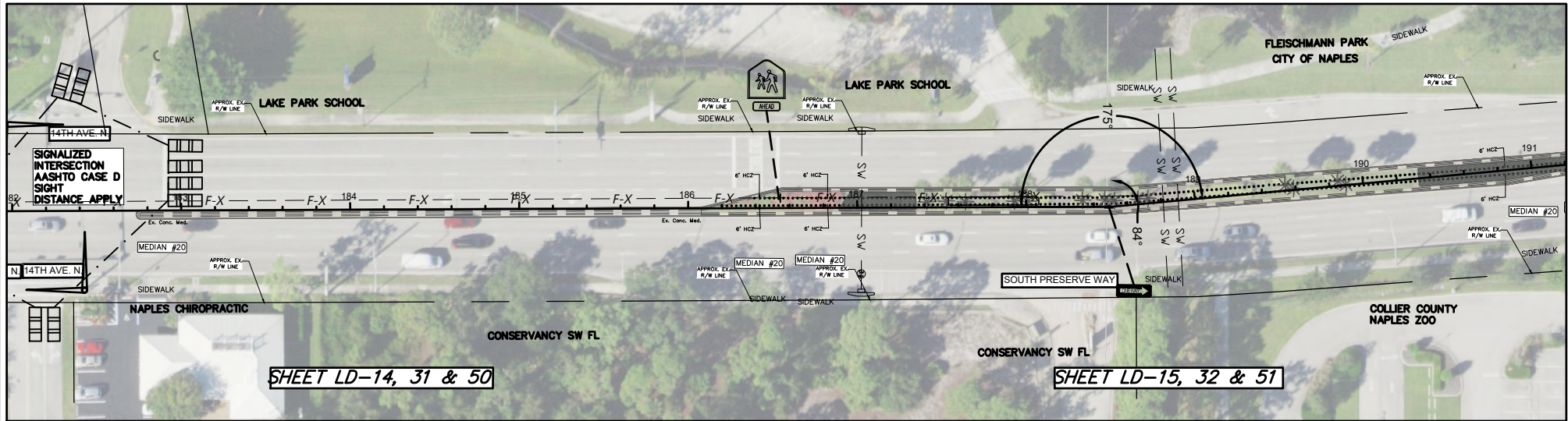
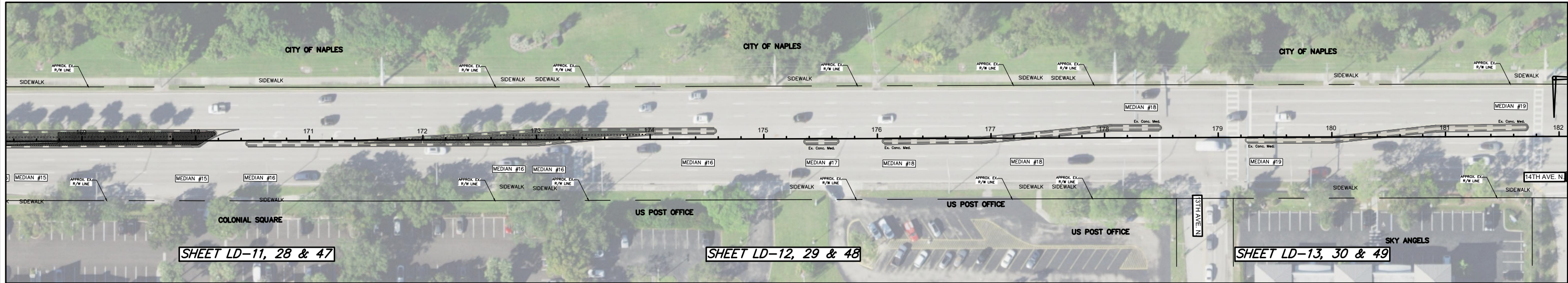
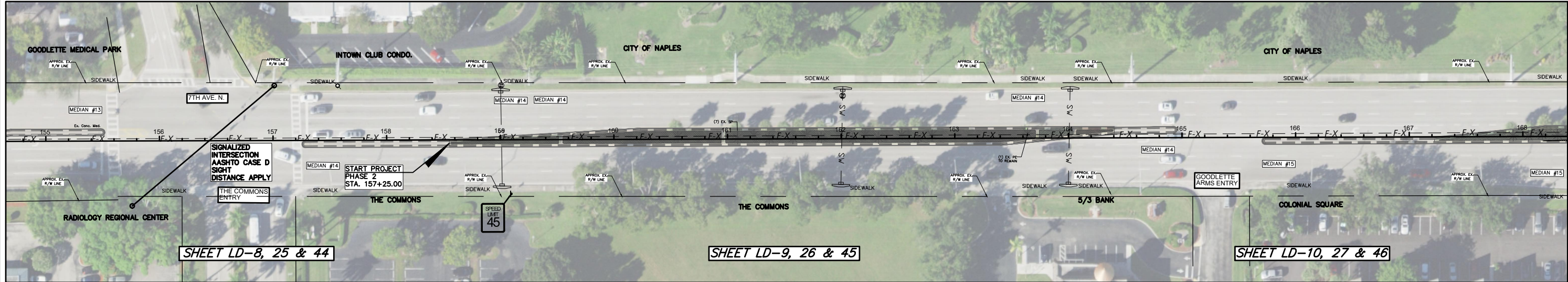
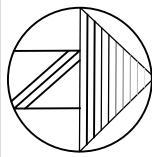
MAINTENANCE OF TRAFFIC (MOT) GENERAL NOTES:

- 1. INCLUDES COMPLIANCE WITH CITY OF NAPLES MAINTENANCE OF TRAFFIC (MOT) AND POLICIES AND APPLICABLE FDOT DESIGN STANDARDS 600 SERIES INDEXES AND FDOT SPECIFICATIONS SECTION 102 MAINTENANCE OF TRAFFIC (MOT).
- 2. CONTACT FOR NOTIFICATIONS:
COMMUNITY SERVICES DEPARTMENT
HEATHER SHIELDS, CITY ARBORIST
280 RIVERSIDE CIRCLE
NAPLES, FLORIDA 34102
(239) 213-7136

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

McGee & Associates			CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT			LANDSCAPE PLAN GENERAL NOTES (2)			SHEET NO.
Landscape Architecture DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING 5079 Tamiami Trail East * Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098			ROAD NO.	COUNTY	PROJECT ID	LD-5			
			CR851	COLLIER	20-02-09-13-20F32-PH2				



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

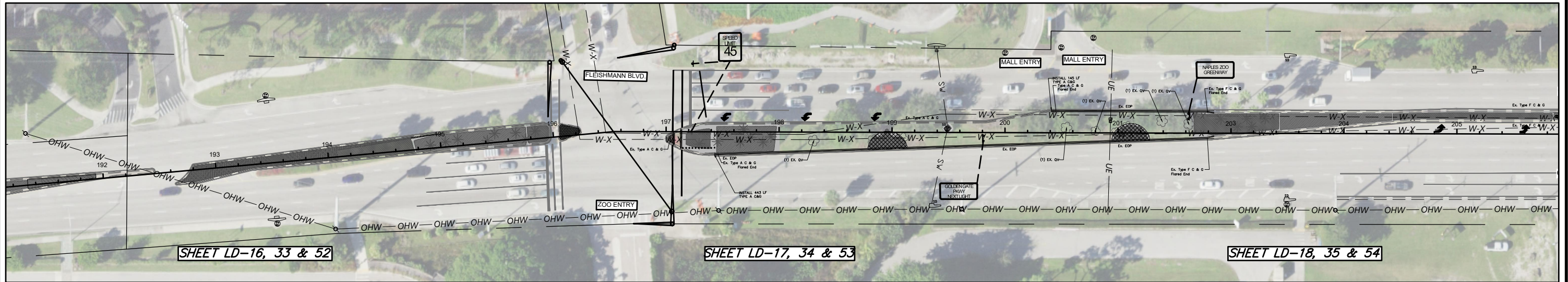
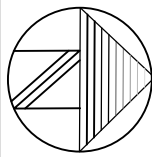
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 PROJECT SHEET LAYOUT (01)

SHEET NO.
LD-6

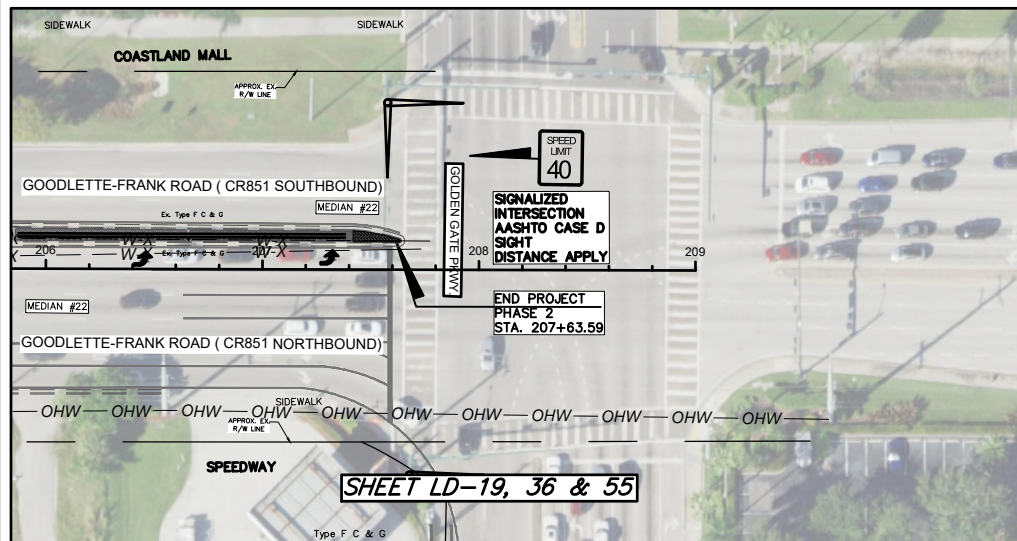
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SHEET LD-16, 33 & 52

SHEET LD-17, 34 & 53

SHEET LD-18, 35 & 54



SHEET LD-19, 36 & 55

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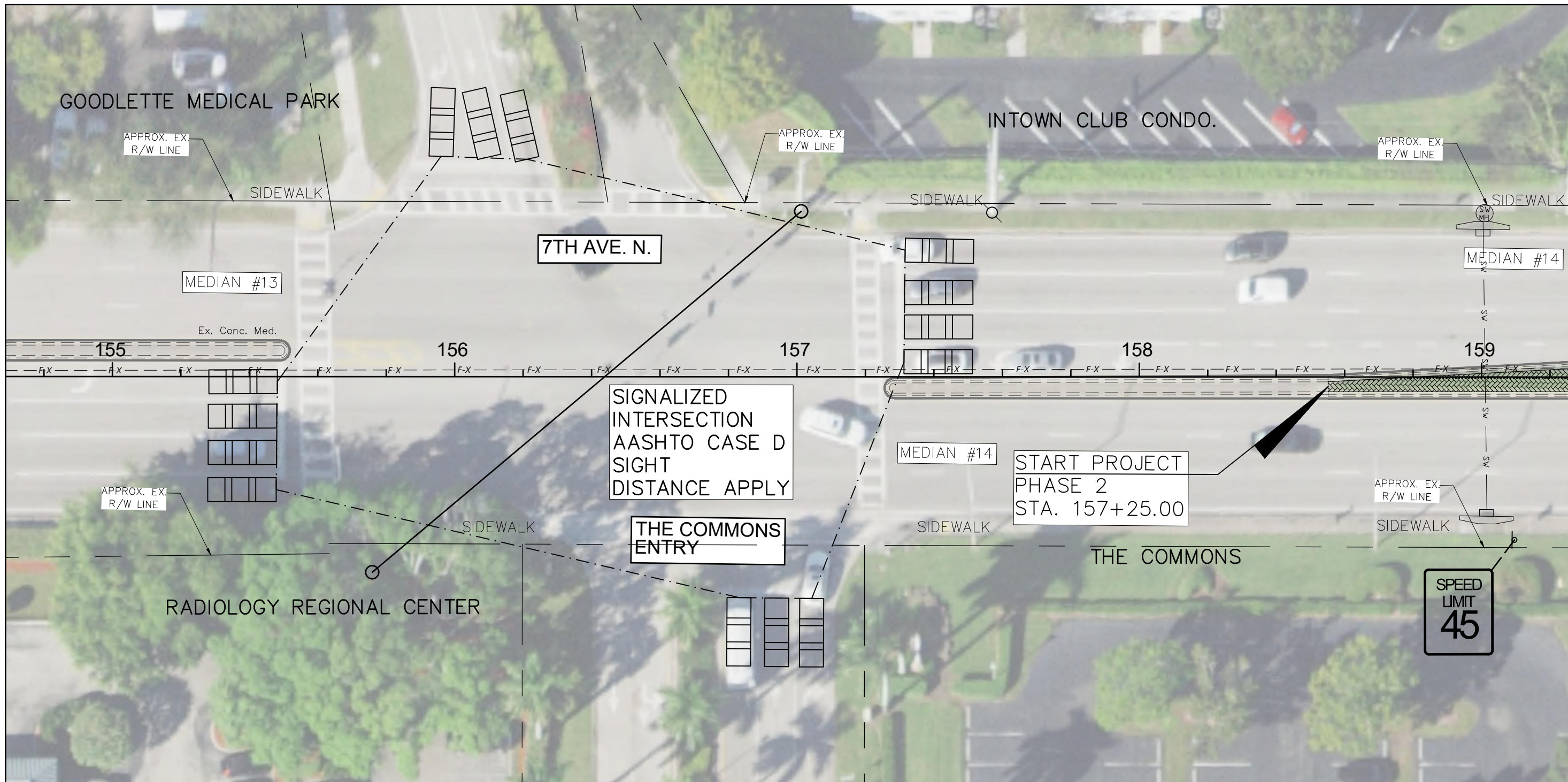
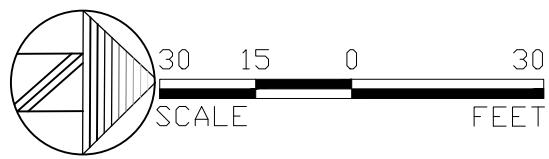
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 PROJECT SHEET LAYOUT (03)

SHEET NO.
LD-7



NO PLANTING WORK THIS SHEET FOR REFERENCE ONLY

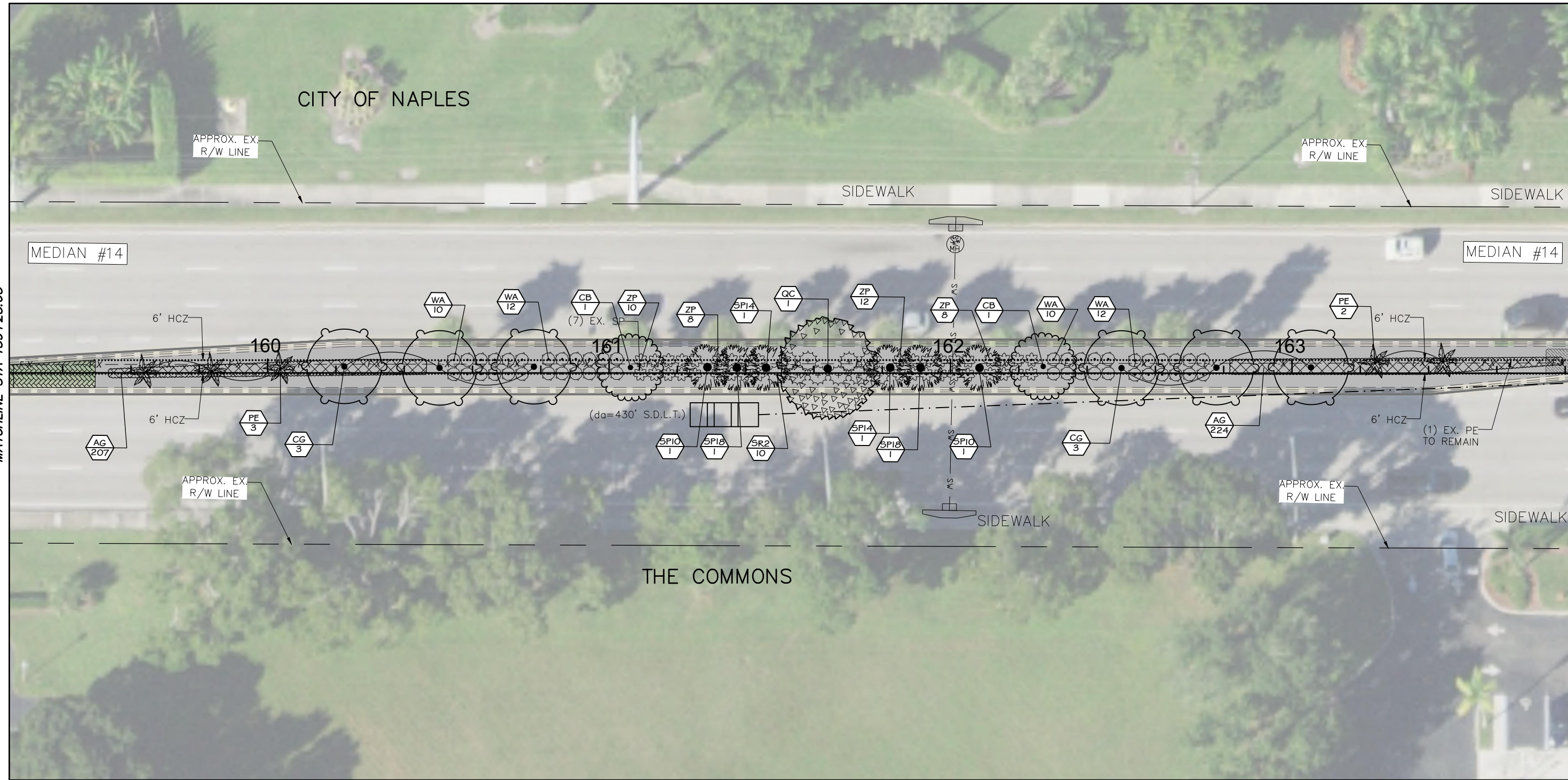
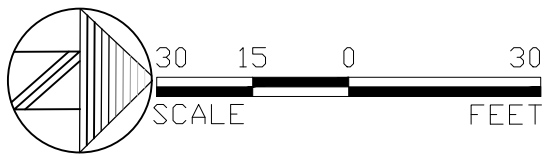
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
PLANTING PLAN (01)

SHEET NO.
LD-8



MATCHLINE STA 159+25.63

MATCHLINE STA 163+81.46

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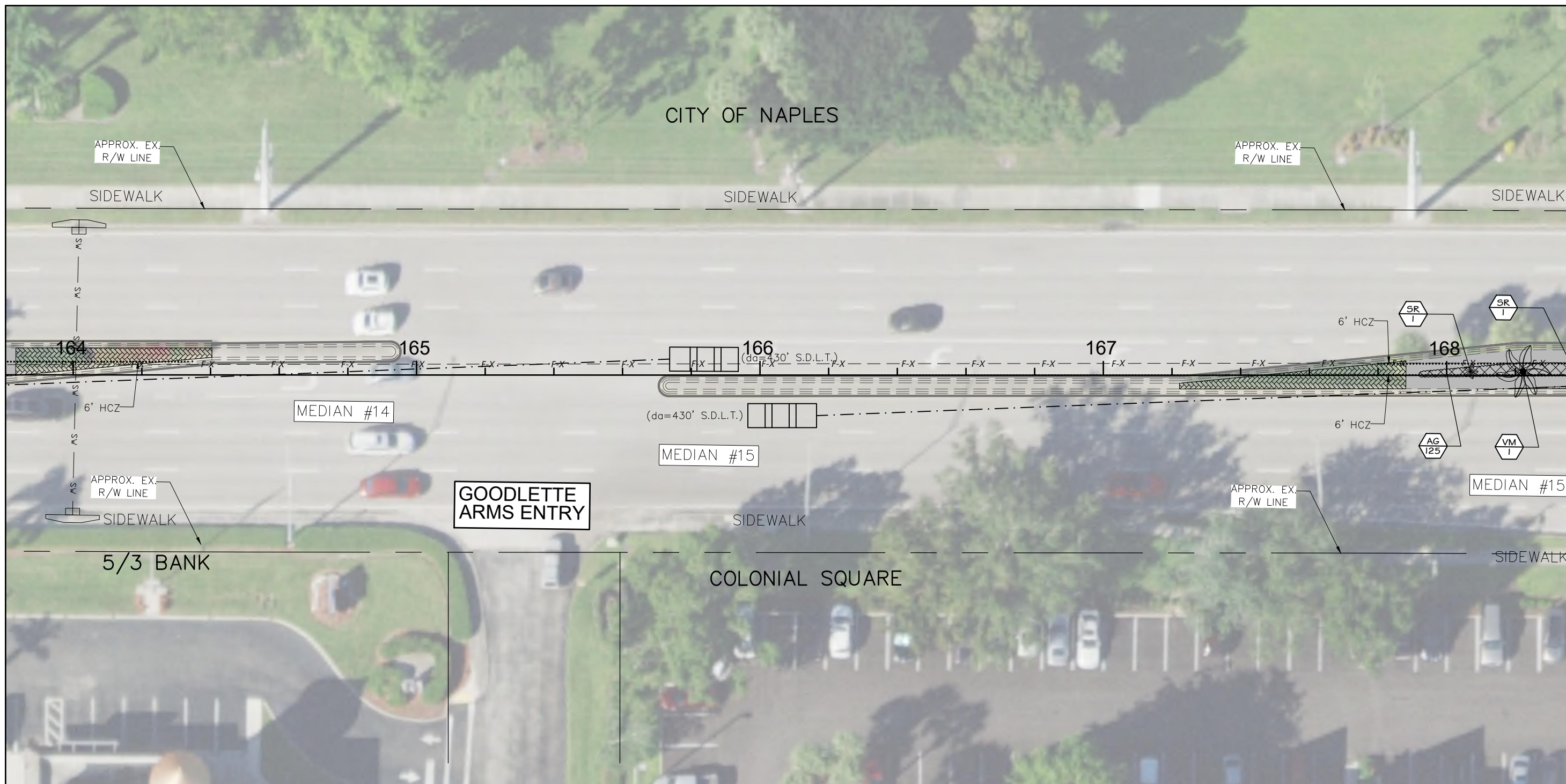
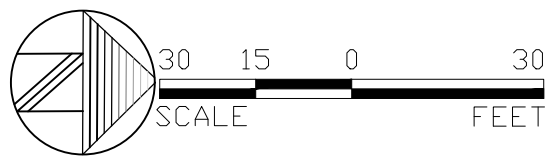
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
PLANTING PLAN (02)

SHEET NO.
LD-9



MATCHLINE STA 163+81.46

MATCHLINE STA 168+37.28

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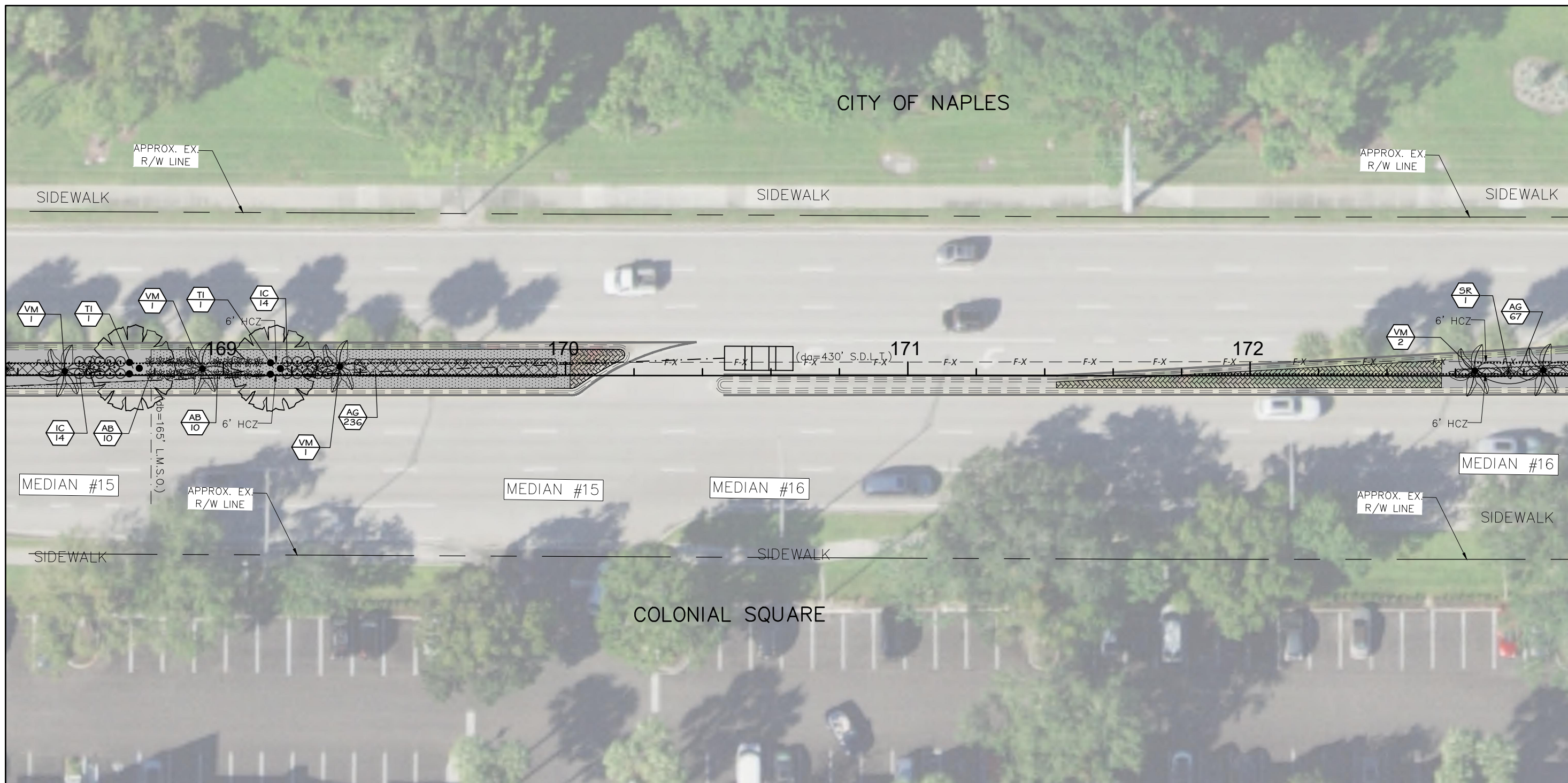
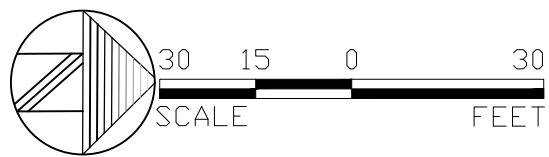
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
PLANTING PLAN (03)

SHEET NO.
LD-10



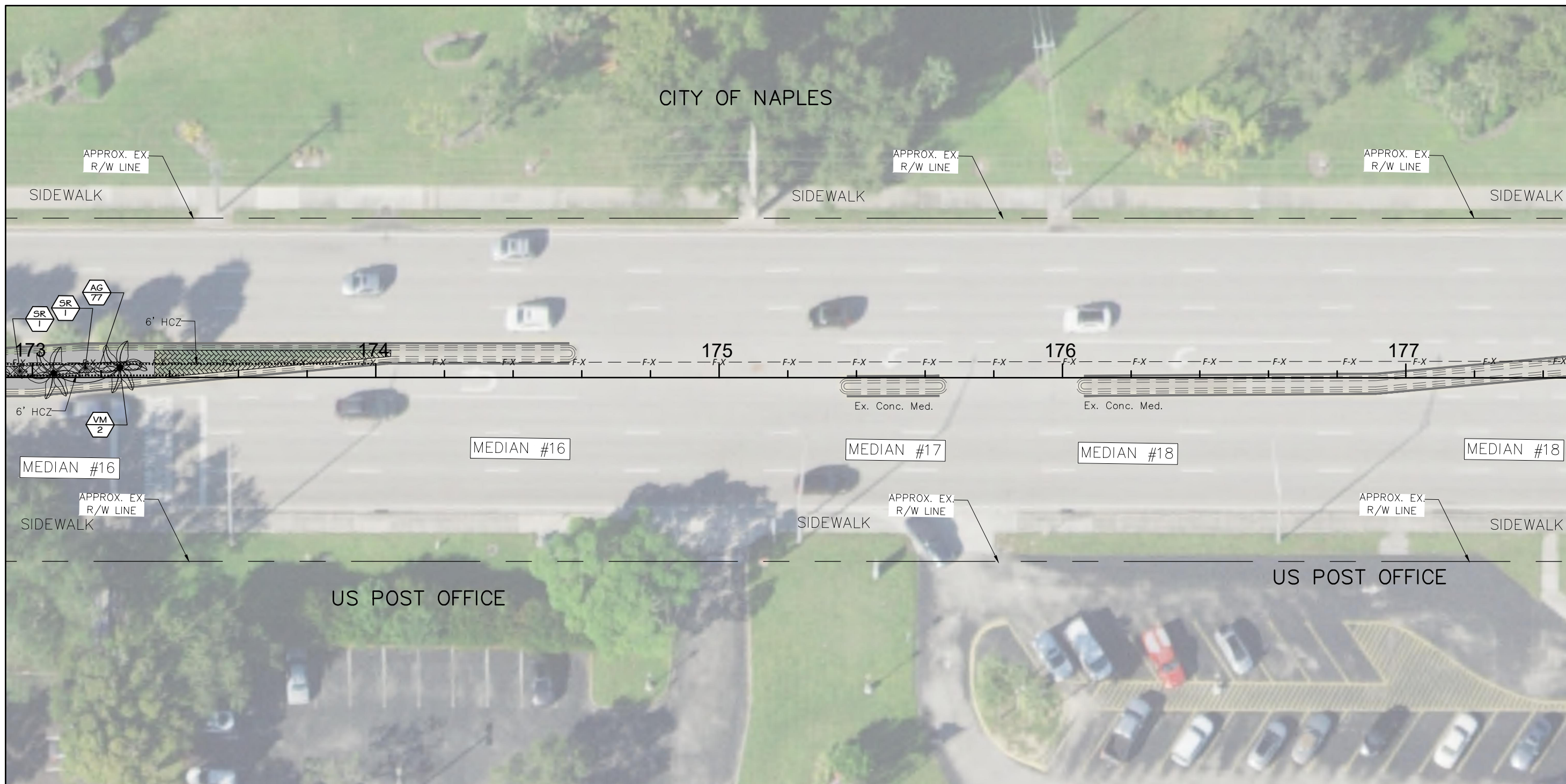
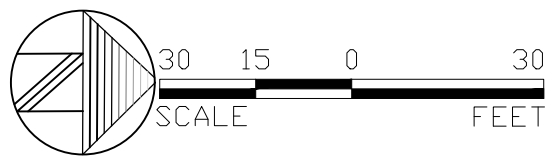
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
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CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 PLANTING PLAN (04)

SHEET NO.
 LD-11



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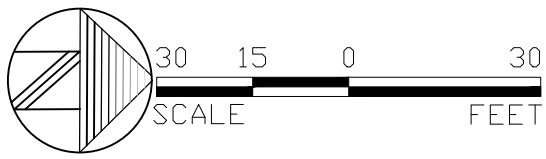
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 PLANTING PLAN (05)

SHEET NO.
 LD-12



MATCHLINE STA 177+48.98

MATCHLINE STA 182+04.75

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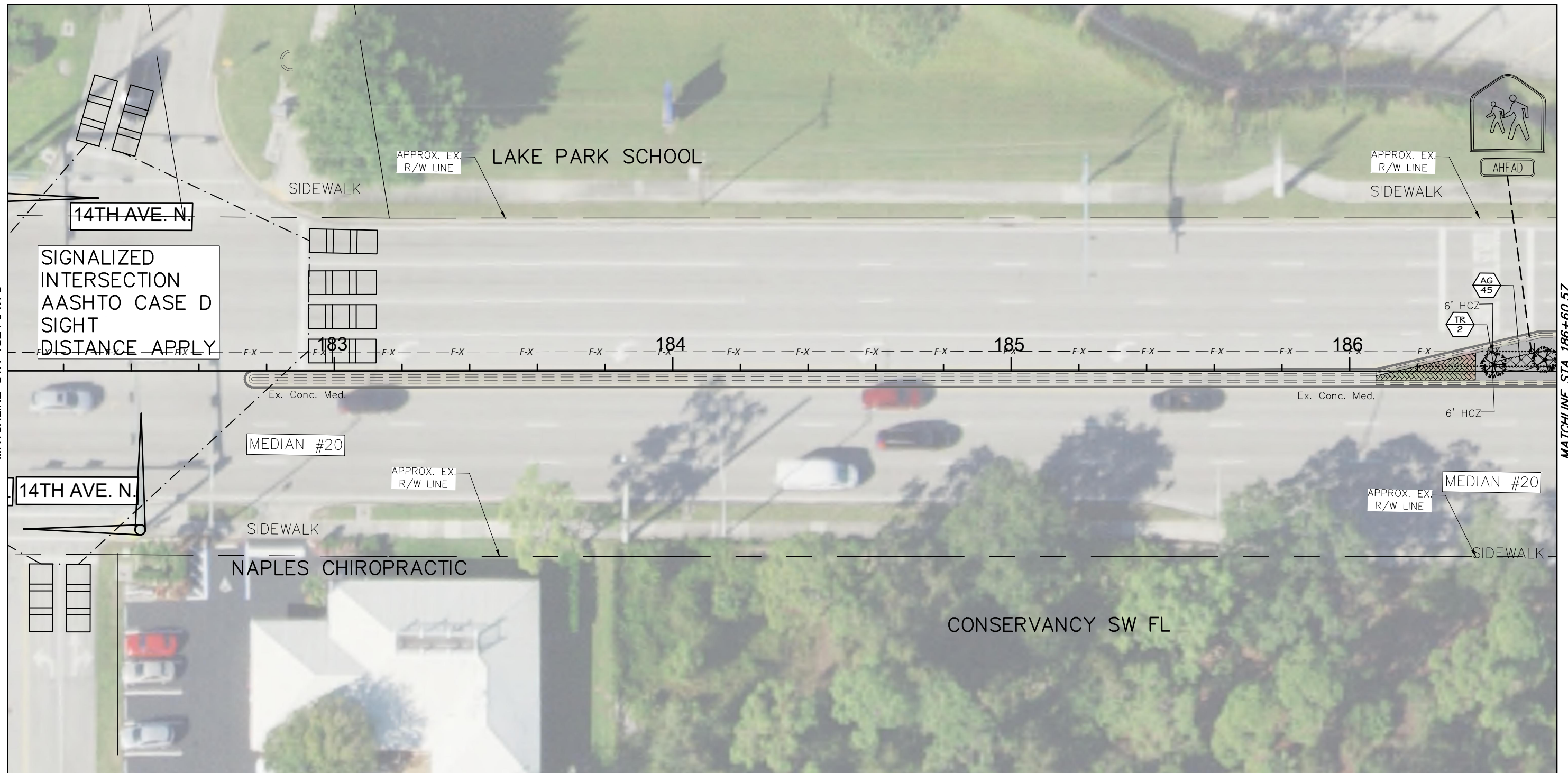
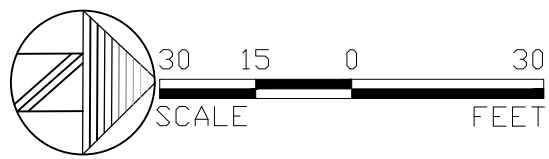
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 PLANTING PLAN (06)

SHEET NO.
 LD-13



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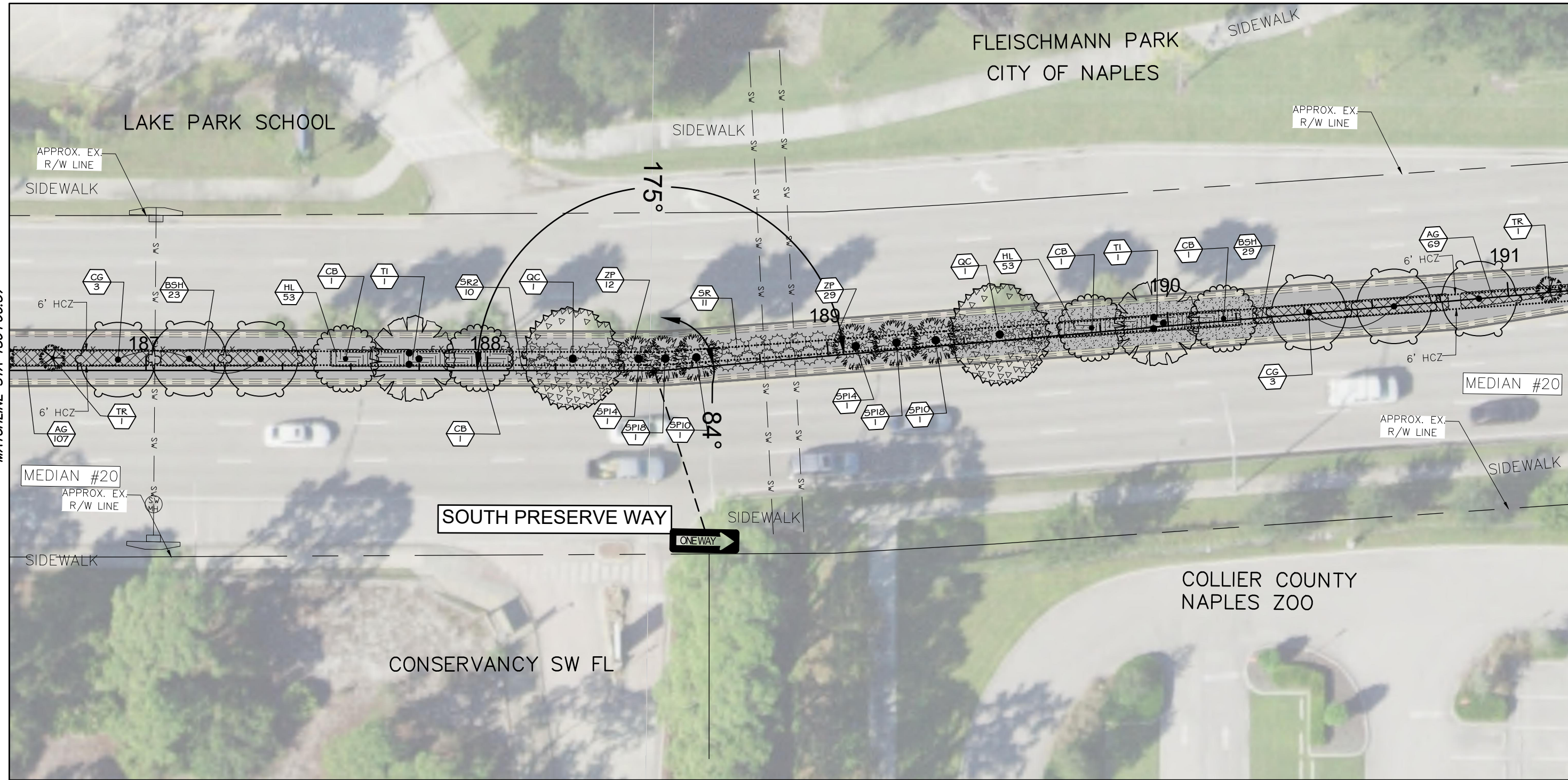
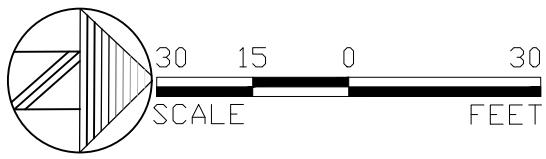
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 PLANTING PLAN (07)

SHEET NO.
 LD-14



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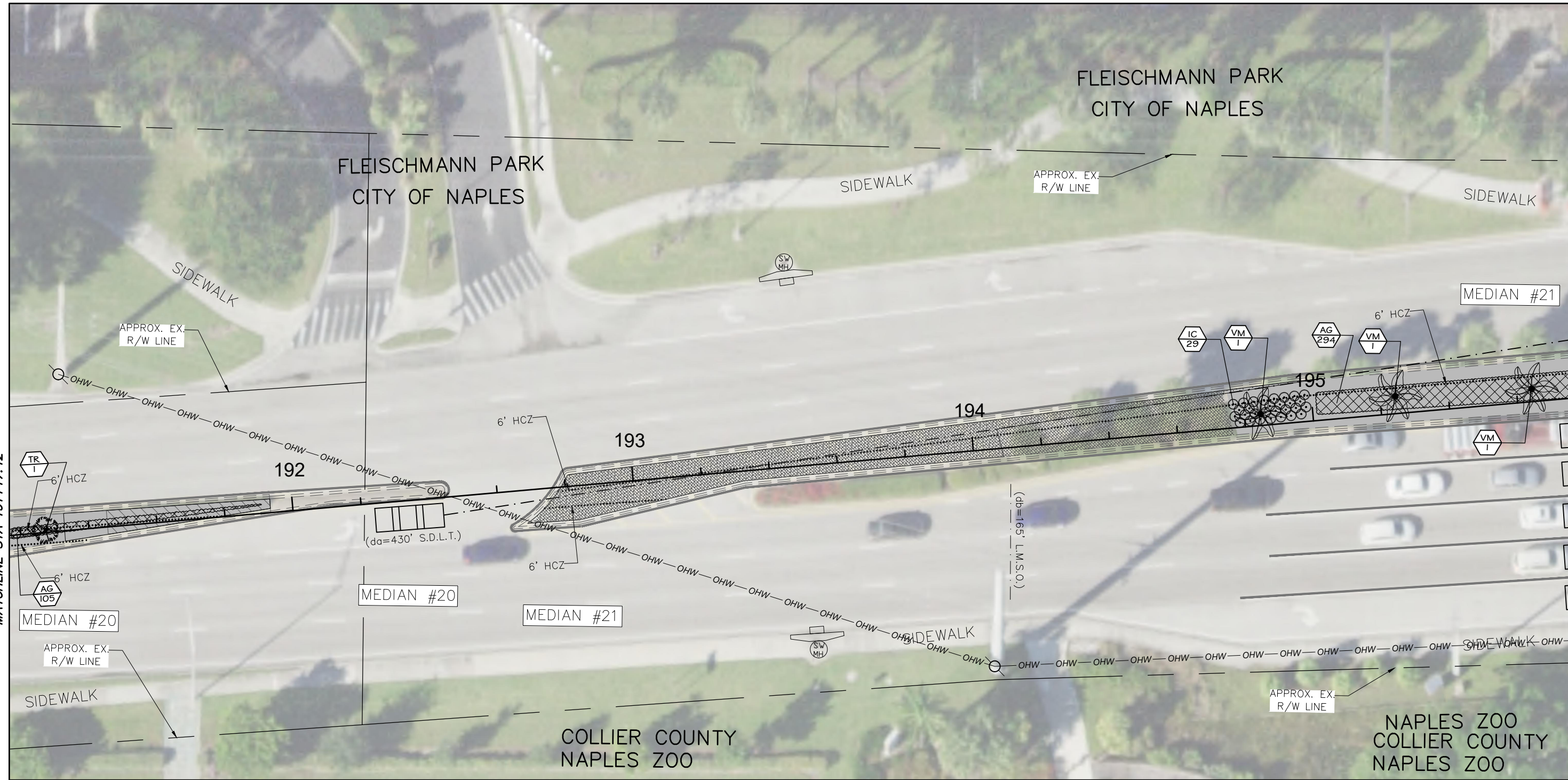
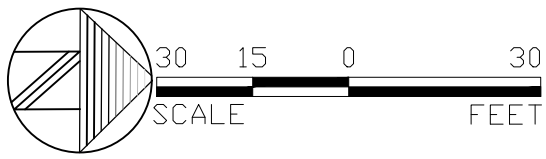
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
PLANTING PLAN (08)

SHEET NO.
LD-15



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

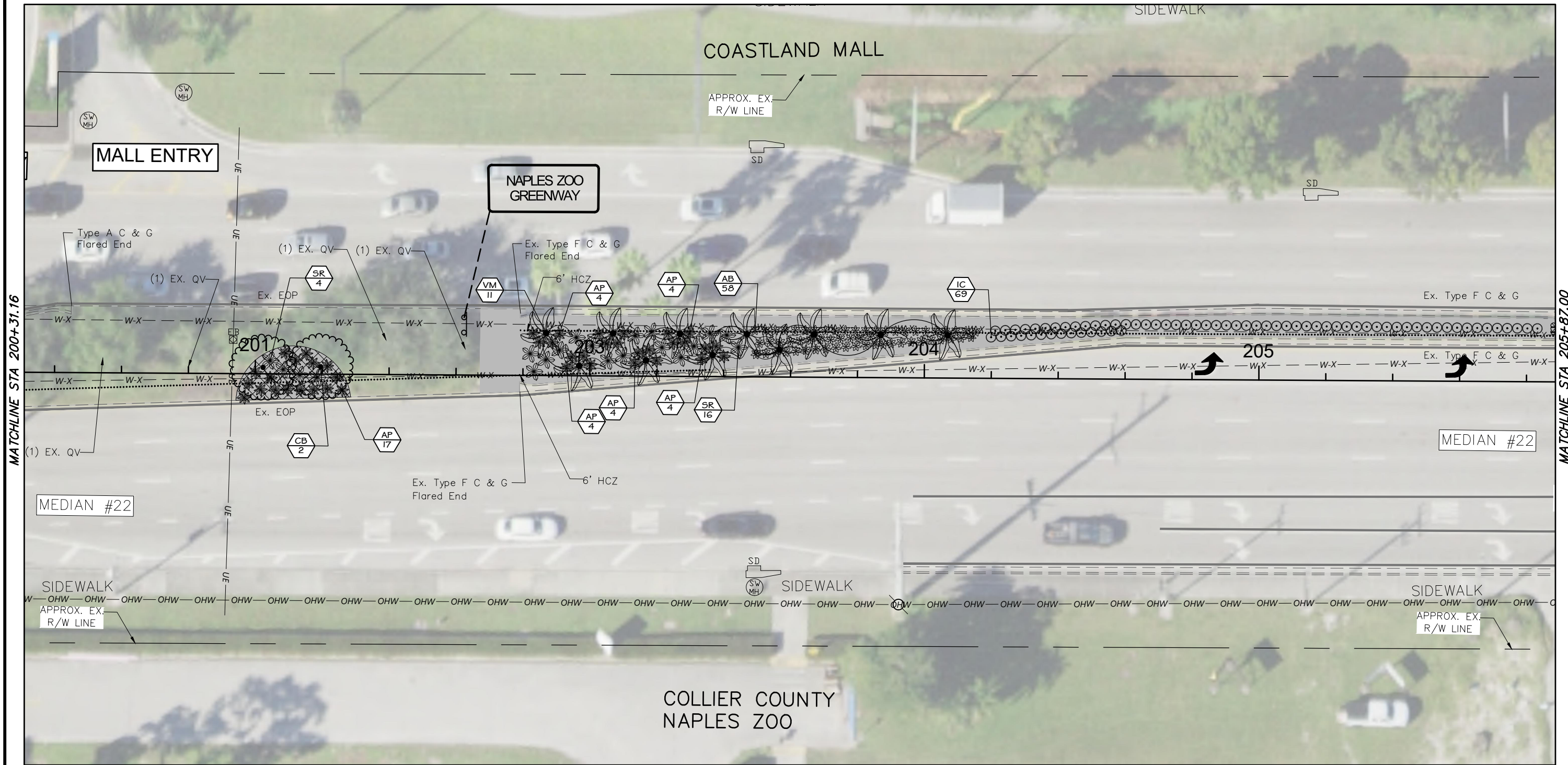
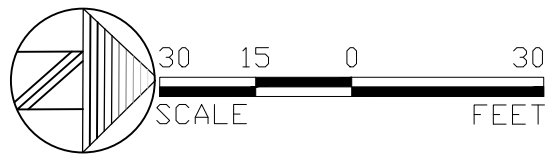
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ROAD NO.	COUNTY	PROJECT ID
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LANDSCAPE PLAN
 PLANTING PLAN (09)

SHEET NO.
 LD-16

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SOIL ENHANCEMENT & PLANTING LEGEND

 INDICATES PLANTING BEDS TO BE RESHAPED WITH NEW SOD EDGES. AREAS TO HAVE EXISTING PLANTS REMOVED, SOIL ENHANCED & GRADED FOR NEW PLANTINGS.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

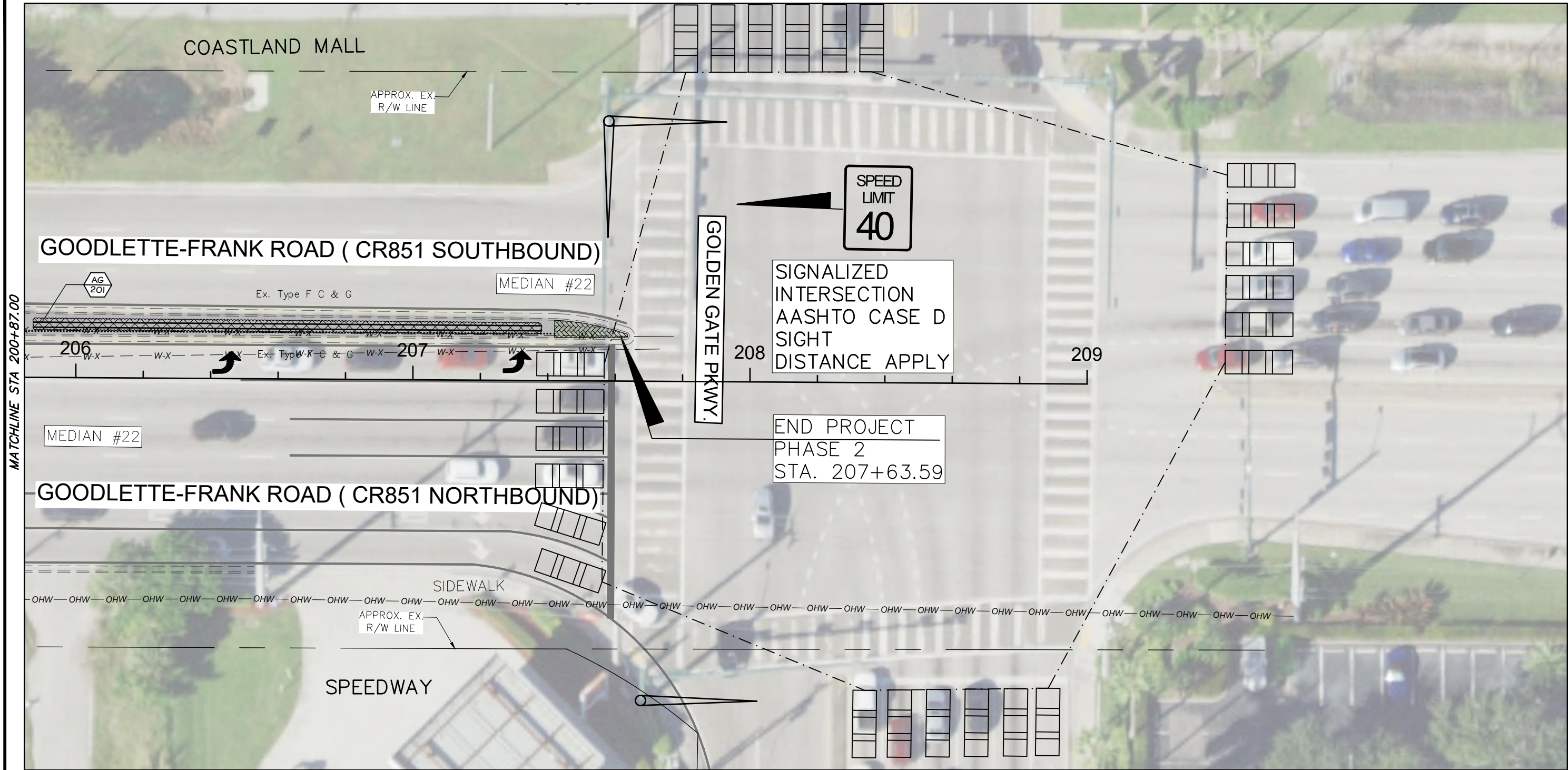
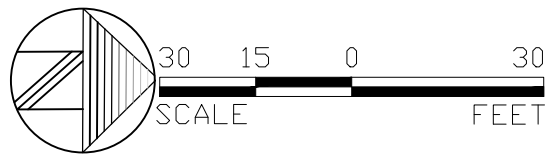
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LANDSCAPE PLAN
PLANTING PLAN (11)

SHEET NO.
LD-18

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CR851	COLLIER	20-02-09-13-20F32-PH2

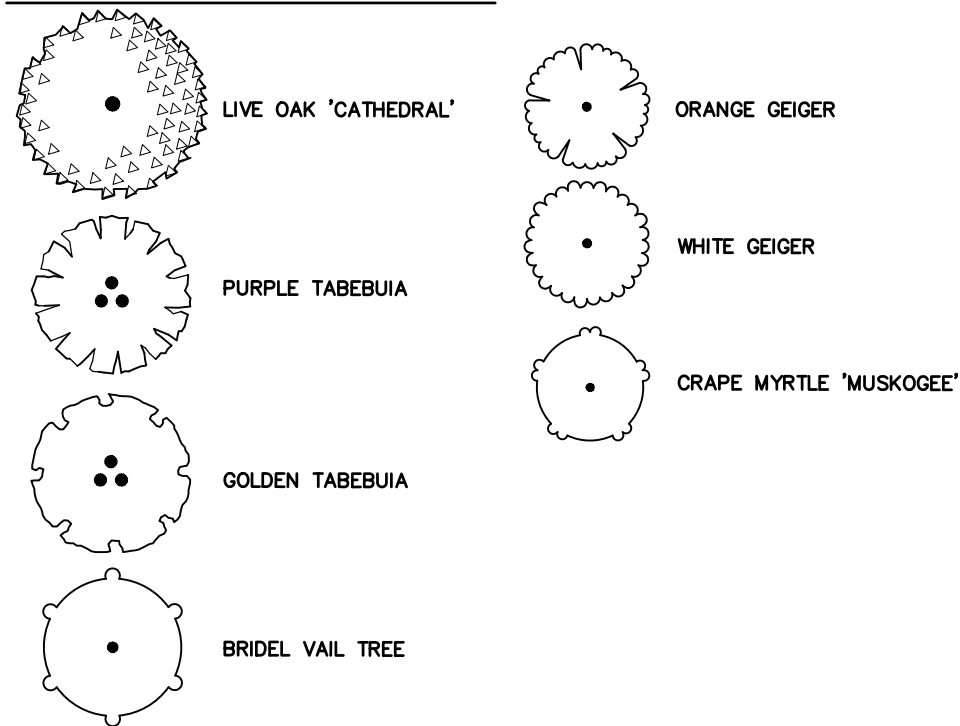
LANDSCAPE PLAN
 PLANTING PLAN (12)

SHEET NO.
 LD-19

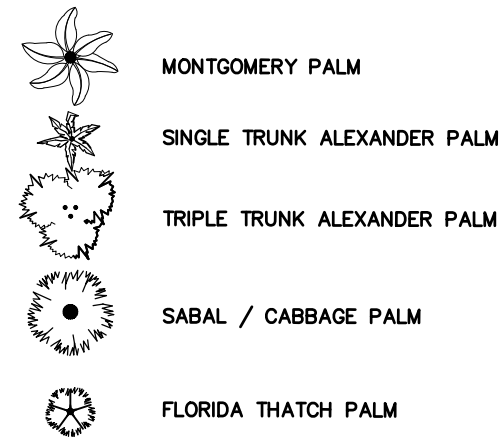
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PLANT SYMBOLS

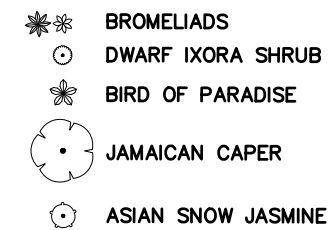
CANOPY TREES



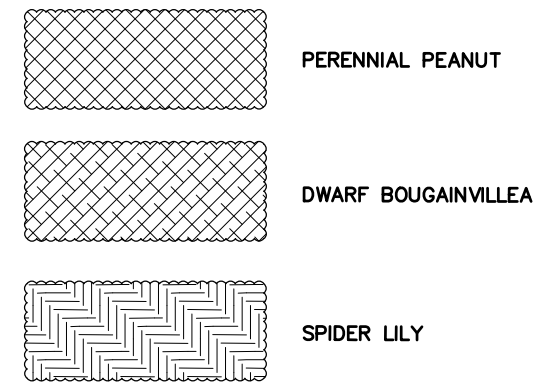
PALM TREES



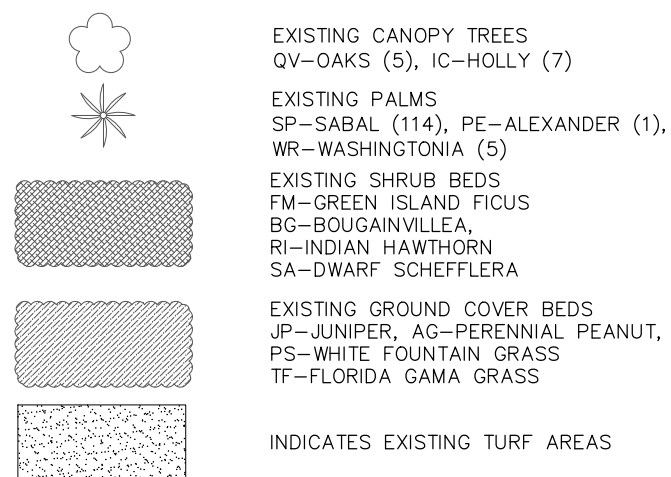
SHRUBS



GROUND COVERS



EXISTING TREES AND PLANTS



ABBREVIATIONS LEGEND

UE	BURIED ELECTRIC
COMM	BURIED COMMUNICATION CABLE
G	BURIED GAS MAIN
W-X	BURIED WATER MAIN
SW	BURIED STORM WATER
S-X	BURIED SANITARY SEWER
OHW	OVERHEAD ELECTRIC LINE
IRR	BURIED REUSE WATER IRRIGATION MAIN
BT	BURIED TELEPHONE
BFO	BURIED FIBER OPTICS
GAS	BURIED GAS
WM	BURIED WATER MAIN
---	RIGHT-OF-WAY LINE
HCZ	HORIZONTAL CLEARANCE ZONE
EOP	EDGE OF PAVEMENT

LEGEND	
	HORIZONTAL CLEARANCE ZONE (6' HCZ) OFFSET 6' MIN. FROM TRAVEL LANES ALL TREES & PALMS
	LIMIT OF CLEAR SIGHT LINE
	AREAS FREE OF SIGHT OBSTRUCTIONS
	AREAS OF PROPOSED PAVERS

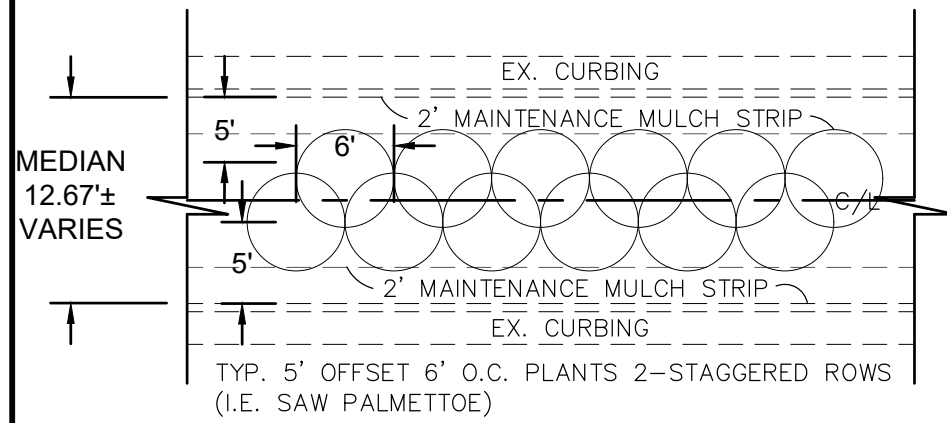
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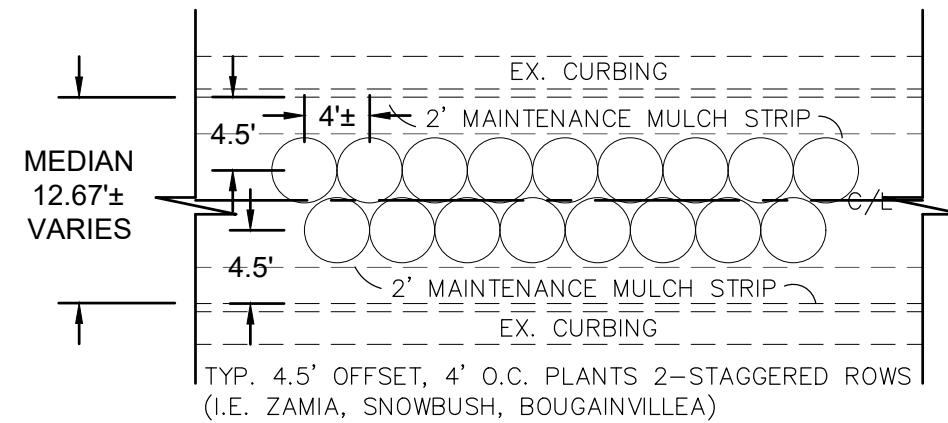
CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
PLAN LEGENDS

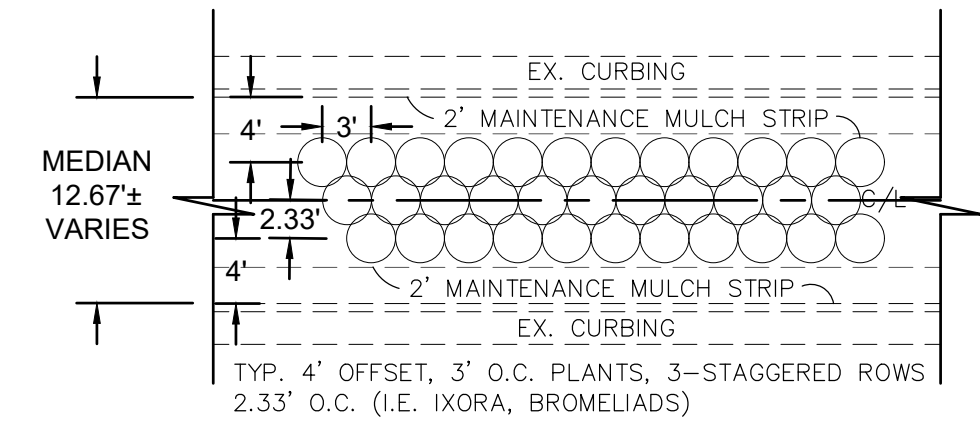
SHEET
NO.
LD-20



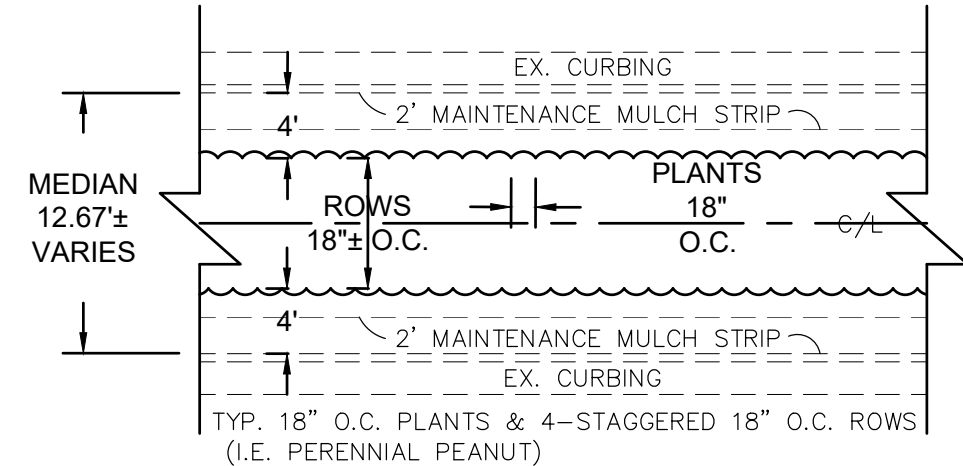
**TYPICAL 6' O.C. SHRUB SPACING & LAYOUT
DETAIL** NTS



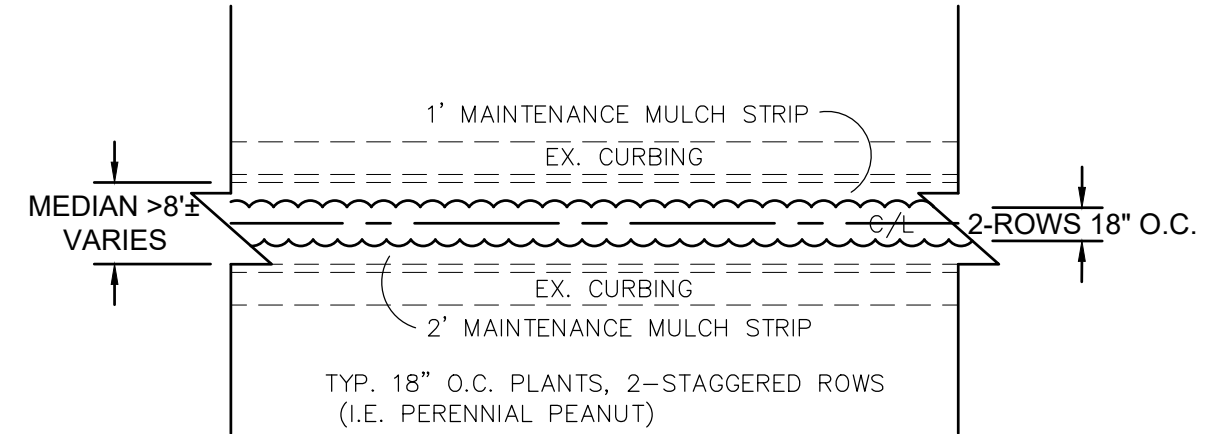
**TYPICAL 4' O.C. SHRUB SPACING & LAYOUT
DETAIL** NTS



**TYPICAL 3' O.C. SHRUB SPACING & LAYOUT
DETAIL** NTS



**TYPICAL 18" O.C. GROUND COVER SPACING
& LAYOUT DETAIL** NTS



**TYPICAL NARROW MEDIAN 18" O.C. GROUND
COVER SPACING & LAYOUT DETAIL** NTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

**LANDSCAPE PLAN
PLANTING DETAILS**

SHEET NO.
LD-21


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LANDSCAPE TABULATION OF QUANTITIES AND PLANT SCHEDULE

PAY ITEM NO.	SYM	BID / PAY ITEM DESCRIPTION (BOTANICAL NAME / COMMON NAME; SIZE; SPACING; DETAILS)	MAX. MAINT. SIZE	REMARKS	UNIT	MEDIAN NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
						M-14		M-15		M-16		M-20		M-21		M-22					
						SHEET NUMBERS															
						LD-8,9 & 10		LD-10 & 11		LD-11 & 12		LD-14,15 & 16		LD-16 & 17		LD-17,18 & 19					
PLAN		FINAL		PLAN		FINAL		PLAN		FINAL		PLAN		FINAL		PLAN	FINAL	PLAN	FINAL		
0580 1 1 *		SMALL PLANTS																			
1	AB	AECHMEA BLANCHETIANA 'RASPBERRY' / RASPBERRY BROMELIAD; 10" POT; 1.5' X 1.5'; 4' OC	2.5'		EA														78	98	
2	AP	AECHMEA X 'PINOT NOIR' BROMELIAD; 10" POT; 1.5' X 1.5'; 4' OC	2.5'		EA														77	77	
3	AG	ARACHIS PINTO 'GOLDEN GLORY PINTO' / PERENNIAL PEANUT; #1 GAL; 6" X 1'; 1.5' OC	8"		EA	431		361		144			326		365			563	2190		
4	BSH	BOUGAINVILLEA SPECTABILIS 'HELEN JOHNSON' / DWARF BOUGAINVILLEA; #3 GAL.; 1.5' X 1.5'; 4' OC	4'		EA								52						52		
5	HL	HYMENOCALLIS LATIFOLIA - SPIDER LILY; #3 GAL; 18" X 18"; 3' OC.; FULL	3'		EA								106						106		
6	IC	IXORA 'PETITE' - RED TAIWAN DWARF IXORA; #3 GAL.; 20" X 20" HT/SPR; 36" OC	1.5'		EA			28							29			69	126		
7	SR	STRELITZIA REGINAE / ORANGE BIRD OF PARADISE; #15 GAL; 3' X 3'; 5' OC; 3 PPP MIN.; FULL	5'		EA			2		3			11					36	52		
8	SR2	SERENOA REPENS - SAW PALMETTO; #15 GAL; 2' X 2'; 6' OC; FULL	6'		EA	10							10						20		
9	WA	WRIGHTIA ANTIDYSENTERICA - ASIAN SNOW JASMINE; #3 GAL; 24" X 24"; 4' OC; FULL	6'		EA	46													46		
10	ZP	ZAMIA PUMILIA - COONTIE CYCAD; #3 GAL.; 14" X 14"; 4' OC; FULL	3'		EA	38							41						79		
0580 1 2 *		LARGE PLANTS																			
1	CB	CORDIA BOISSIERI - WHITE GEIGER; 5" CAL; 14' OA X 6' SPREAD; 42" DIA ROOT BALL	NF / 30'		EA	2							4						6		
2	CC	CAPPARIS CYNOPHALLOPHORA - JAMAICA CAPER; 6'-8' OA. HT.; FG B&B	NF / 15'		EA																
3	CS	CORDIA SEBESTENTA - ORANGE GEIGER; 5" CAL; 14' OA X 6' SPREAD; 42" DIA ROOT BALL	NF / 30'		EA																
4	CG	CAESALPINIA GRANADILLO - BRIDALVEIL; 2.5" CAL; 12' OA X 6' SPR; 30" DIA ROOT BALL; FG B&B	NF / 30'		EA	6							6						12		
5	LM	LAGERSTROEMIA X 'MUSKOGEE' / CRAPE MYRTLE; #30 GAL.; 8'-10" X 4'-5"; STANDARD	NF / 25'		EA																
6	PE	PTYCHOSPERMA ELEGANS / ALEXANDER/SOLITAIRE PALM; FG B&B.; 4" CAL; 10' CT; 28" ROOT BALL; 5 LEAFLETS; SEE PLAN	NF / 40'		EA	5													5		
7	QC	QUERCUS VIRGINIANA - CATHEDRAL LIVE OAK; F.G.-B&B, 5" CAL., ≥ 15' OA. HT., ≥ 8' SPR., FLA. #1, ≥ 44" DIA. ROOT BALL	NF / 60'		EA	1							2						3		
8	SP18	SABAL PALMETTO - CABBAGE PALM; 18' CLEAR TRUNK HT.; FG; NO BURN	NF / 40'		EA	2							2						4		
9	SP14	SABAL PALMETTO - CABBAGE PALM; 14' CLEAR TRUNK HT.; FG; NO BURN	NF / 40'		EA	2							2						4		
10	SP10	SABAL PALMETTO - CABBAGE PALM; 10' BOOTED CLEAR TRUNK HT.; FG; NO BURN	NF / 40'		EA	2							2						4		
11	TC	TABEBUIA CHRYSOTRICHIA / GOLDEN TRUMPET; 5.5" CAL; 14' OA X 8' SPR; 50" DIA ROOT BALL; FG B&B	NF / 40'		EA																
12	TI	TABEBUIA IMPETIGINOSA / PURPLE TRUMPET; 5.5" CAL; 14' OA X 8' SPREAD; 50" DIA ROOT BALL; FG B&B	NF / 40'		EA			2					2						4		
13	TR	THRINAX RADIATA - FLORIDA THATCH PALM; 6'-8' OA. HT.; FG B&B	NF / 25'		EA								5						5		
14	VM	VEITCHIA MONTGOMERYANA / MONTGOMERY PALM; FG B&B.; 6" CAL; 10' CT; 30" ROOT BALL; 5 LEAFLETS	NF / 40'		EA			4		4					3			15	26		
0580 1-101 *		MULCH																			
1		ORGANIC GRADE "A" 2 CU. FT. BAGS, 3" DEPTH PER FDOT INDEX 580-001; COLOR TO BE BLACK OR BROWN & SELECTED BY CITY			BAGS	725		405		105			925		235			830	3225		

- Landscape Plants Abbreviation Key
- B&B - Balled & Burlapped
 - CAL - Caliper
 - CT - Clear Trunk
 - DC - Diamond Cut trunk
 - FF - Florida Fancy Grade
 - FG - Field Grown
 - GAL - Gallon Size
 - MULTI - Multiple Stems or Trunks
 - NF - Natural Form
 - OA - Overall height
 - OC - On Center
 - PPP - Plant Per Pot
 - REGEN - Regenerated Roots
 - RP - Root Pruned (Min 60 Days)
 - SPR - Canopy Spread

* - IDENTIFIES ITEMS NORMALLY REQUIRING SHOP DRAWINGS, PHOTOS OR PLANS. CONTRACTOR SHALL DETERMINE OTHER ITEMS THAT REQUIRE SHOP DRAWINGS FOR SUBMITTALS.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	 Landscape Architecture DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING 5079 Tamiami Trail East * Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098	CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT			LANDSCAPE PLAN PLANTING PLAN TABULATION OF QUANTITIES			SHEET NO.
							ROAD NO.	COUNTY	PROJECT ID				LD-22
							CR851	COLLIER	20-02-09-13-20F32-PH2				

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

A. GENERAL IRRIGATION INSTALLATION NOTES:

1. THE PLANS AND/OR DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER SITE ELEMENTS, INCLUDING LANDSCAPE MATERIALS. ANY AND ALL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER / LANDSCAPE ARCHITECT. 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. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT GIVEN TO THE ENGINEER / LANDSCAPE ARCHITECT, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
2. IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. CONTRACTOR SHALL COMPLY WITH ALL PREVAILING FLORIDA BUILDING CODES, NATIONAL ELECTRICAL CODES, ORDINANCES AND/OR REGULATIONS WITH REGARDS TO INSTALLATION AND GROUNDING.
3. CHECK AND VERIFY ALL SITE CONDITIONS, INCLUDING SERVICE UTILITY LOCATIONS, PRIOR TO TRENCHING OR DIGGING. COORDINATE ALL IRRIGATION SYSTEM CONSTRUCTION WITH EXISTING AND/OR NEW PLANTINGS TO AVOID CONFLICT OR INTERFERENCE.
4. THE IRRIGATION CONDUITS OR PIPING SHALL BE RELOCATED AS NECESSARY TO ADVERT THE PROPOSED OR EXISTING SITE ELEMENTS AND/OR OTHER OBSTRUCTIONS.
5. IRRIGATION COMPONENT LOCATIONS SHALL BE AS SHOWN OR NOTED ON THE PLANS. IRRIGATION COMPONENT SPACING MAYBE ADJUSTED TO ACCOMMODATE CHANGES FOR FIELD CONDITIONS.
6. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE INSTALLED AS NOTED OR DETAILED IN THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS/INSTRUCTIONS RECOMMENDED BY THEIR MANUFACTURER.
7. IRRIGATION CONTRACTOR SHALL ASSISTS COUNTY STAFF TO ADJUST ALL CONTROLLERS, AND ZONES AND OTHER DEVICES TO OBTAIN SPECIFIED OPERATING CHARACTERISTICS, INCLUDING COVERAGE, OPERATING PRESSURE, FLOW RATES AND OPERATION TIME.
8. CONTRACTOR TO PROVIDE INSTALLATION SHOP DRAWINGS AND MANUFACTURER PRODUCT INFORMATION FOR ALL IRRIGATION COMPONENTS.
9. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN, DEBRIS-FREE MATERIALS TO 90% DENSITY. CLEAN SAND SHALL BE USED FOR BEDDING MATERIAL IF PARENT SOIL CANNOT BE ADEQUATELY RID OF ROCK AND OTHER EXTRANEIOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.
10. ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMMENDED BY THE MANUFACTURER.
11. CONTRACTOR TO VERIFY ZONE VALVE LABELS/NUMBERS PRIOR TO INSTALLATIONS.

B. MAINLINE & PIPING:

1. ALL IRRIGATION MAIN (S) & SUBMAIN (S) GREATER THAN 2.5" DIA. SHALL BE 1120-1220 CLASS 200 PVC GASKETED PIPE WITH DUCTILE IRON PIPE FITTINGS, EXCEPT FOR PIPING THROUGH SLEEVES. ALL PIPES LESS THAN 2.5" DIA., OR RUN THROUGH SLEEVES, AND LATERAL PIPING USED DOWNSTREAM OF EACH ZONE CONTROL VALVE SHALL BE CLASS 200 PVC SOLVENT WELD PIPE.
2. THE DEPTH OF ALL LINES SHALL BE AS SPECIFIED PER PLANS AND DETAILS. MEASUREMENTS SHALL BE FROM TOP OF PIPE(S) TO FINISH GRADE.
3. ALL MAINLINES WILL BE INSTALLED WITH A TRACING TAPE LABELED "NON-POTABLE IRRIGATION MAIN".
4. THE CONTRACTOR SHALL SIZE ALL PIPE WHEN NOT SHOWN ON PLANS TO MAINTAIN AN OPERATING PRESSURE BETWEEN 35 to 45 PSI ON ALL ZONES. THE MINIMUM SIZE PIPE SHALL BE 3/4 INCH DIA.
5. ALL IRRIGATION AT GRADE COMPONENTS (e.g. VALVE BOXES) IN MEDIANS SHALL BE INSTALLED ALONG CENTERLINE OF MEDIAN AND/OR IN EDGES OF PLANT BEDS.
6. ALL TRENCHED MAIN LINE WITH NO ADJACENT VALVE WIRES SHALL HAVE APPROVED LOCATOR DEVICES EVERY 50 FEET AND AT DIRECTION CHANGES.

C. IRRIGATION CASING AND PIPING BY HORIZONTAL DIRECTIONAL DRILLING/BORING:

1. ALL HORIZONTAL DIRECTIONAL DRILLING INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE FLORIDA D.O.T. UTILITY ACCOMMODATIONS MANUAL, FDOT DIRECTIONAL BORE SECTION 555.
2. ALL EXISTING OR PROPOSED CASING/SLEEVE AND PIPE CROSSINGS SHALL HAVE APPROVED NON-POTABLE WATER UNDERGROUND LOCATING DEVICES (E.G. OMNI BALLS) INSTALLED ON TOP OF EACH END AT MECHANICAL JOINT CONNECTIONS.
3. ALL DIRECTIONAL DRILLING PIPING SHALL EXTEND 8 FEET BEYOND ANY ROADWAY PAVEMENT EDGE, BACK OF CURBING, SIDEWALK EDGES OR RETAINING WALL STRUCTURES AND MAINTAIN A MINIMUM 48 INCH DEPTH TO TOP OF PIPE FOR ALL CROSSINGS.
4. ALL SLEEVES SHALL BE AS SIZED SO THAT IT IS TWO TIMES THE SIZE OF THE PIPE BEING SLEEVED.
5. ALL VALVE WIRING OR LATERAL PIPING UNDER PAVEMENT SHALL BE HDPE OR SLEEVED IN SCHEDULE 40 PVC PIPE. WHITE OR PURPLE PIPE FOR LATERAL LINES AND GRAY ELECTRIC CONDUIT PIPE FOR VALVE WIRING.
6. ALL MAIN LINE AND/OR CONDUIT PIPING INSTALLED UNDER THE ROADWAY PAVEMENT SHALL BE HDPE PE 3608/3408 SDR 11 PIPE WITH MECHANICAL HDPE TO PVC CONNECTIONS. IF MAIN LINE PIPING IS TO BE INSTALLED UNDER EXISTING ROADWAYS THAT CANNOT BE INSTALLED BY TRENCHING THEN IT SHALL BE INSTALLED USING DIRECTIONAL DRILLING/BORING TECHNOLOGY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
8. ALL CONSTRUCTION MATERIALS INCLUDING HORIZONTAL DRILLING FLUID SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
9. EXCAVATIONS SHALL BE RESTORED IN ACCORDANCE WITH THE LOCAL UTILITIES STANDARD MANUAL AND STANDARD DETAILS FOR TRENCH RESTORATION.
10. PIPING DIAMETER SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
11. CONDUITS AND PIPES SHALL MAINTAIN A MINIMUM 18 INCH SEPARATION FROM ALL EXISTING UTILITIES, OR AS REQUIRED BY LOCAL CODE OR UTILITY AGENCY'S STANDARDS.

D. CONTROLLER RELOCATIONS AND INSTALLATIONS:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH CITY PROJECT MANAGER.
2. EXISTING CONTROLLERS SHALL BE DISCONNECTED AND RELOCATED AS SHOWN ON THE PLANS OR RETURNED TO THE PROJECT MANAGER.
3. ALL HIGH VOLTAGE ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN AND COORDINATED AND COMPLY WITH THE POWER SERVICE AGENCY REQUIREMENTS.
4. ALL ELECTRICAL WORK SHALL COMPLY WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.
5. CONTROLLER INSTALLATIONS OR RELOCATIONS SHALL INCLUDE ALL REQUIRED COMPONENTS AS NECESSARY FOR A 100% FULLY OPERATING CONTROLLER.
6. CONTROLLER RELOCATIONS OR INSTALLATIONS SHALL INCLUDE WIRING OF ZONE VALVES.
7. ALL CONTROLLER DEVICES SHALL BE AS SPECIFIED AND BE PROPERLY INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS AND MANUFACTURER'S RECOMMENDATIONS.

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**CITY OF NAPLES CITY COUNCIL
 COMMUNITY SERVICES DEPARTMENT**

ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
IRRIGATION GENERAL NOTES (1)

SHEET NO.
LD-23

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

- E. REMOTE ZONE CONTROL VALVES:
- ALL IRRIGATION WIRE SHALL BE 24 VOLT, COATED SOLID COPPER, UL APPROVED, FOR DIRECT BURIAL WIRE. WIRES SHALL BE SLEEVED MULTI-COLORED #16 GAUGE. ALL WIRE SHALL BE IN 1" SCH. 40 PCV GRAY COLORED ELECTRICAL CONDUIT INCLUDING ALL CONNECTORS AND SWEEPS INTO AND OUT OF VALVE OR SPLICE BOXES. THE CONTRACTOR SHALL FURNISH SUFFICIENT WIRE COILS FOR EXPANSION.
 - ALL WIRE SPLICES SHALL BE MADE USING SCREW AND SEAL PACK TYPE CONNECTORS AS DETAILED HEREIN.
 - ALL VALVE WIRING SHALL BE INSTALLED PER PIPE TRENCHING DETAIL IN A DEDICATED CONDUIT AND SHALL NOT SHARE THE SAME SLEEVE WITH ANY MAIN OR LATERAL PIPING.
- F. VALVE & PULL/JUNCTION BOXES:
- ALL VALVE BOXES SHALL BE SIZED AND INSTALLED AS SHOWN AND DETAILED HEREIN. TOP OF VALVE BOXES SHALL BE 4 INCHES HIGHER THAN ADJACENT FINISHED SOIL GRADE WHEN INSTALLED. CONTRACTOR TO REINSTALL AND LEVEL BOXES IF SOIL SETTILING OCCURS.
 - CONTRACTOR SHALL LOCATE AND FLAG ALL PROPOSED AND EXISTING BOX LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY THE CITY PROJECT MANAGER.
 - ALL VALVE AND PULL BOXES SHALL BE HIGH DENSITY STRENGTH BOXES WITH LOCKING AND LABELED LIDS.
 - VALVE BOX EXTENSIONS SHALL BE INCLUDED ON AN AS NEEDED BASIS.
- G. EXISTING WATER SOURCES, MAIN LINES AND VALVE WIRING:
- CONTRACTOR SHALL LOCATE AND FLAG ALL EXISTING VALVE WIRING, MAIN LINES AND PRIOR TO ANY SITE WORK.
 - ALL EXISTING IRRIGATION WATER SOURCES SHALL BE LOCATED AND FLAGGED PRIOR TO ANY SITE WORK.
- H. PERMITS AND PERMITTING:
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED INSTALLATION PERMITTING FROM THE APPROPRIATE AUTHORITIES AS REQUIRED.
 - ALL HIGH VOLTAGE ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN AND SHALL INCLUDE ALL PERMITS AND PERMITTING PLANS, DOCUMENTS AND APPLICATIONS REQUIRE TO SECURE PERMITS.
- I. VALVE WIRE CONDUIT INSTALLATION:
- VALVE WIRE CONDUITS SHALL BE INSTALLED AS SHOWN PER THE PLANS..
 - CONDUITS SHALL BE SIZED AS PER THE PLANS OR AS REQUIRED BY THE AMOUNT OF WIRES CONTAINED.
 - CONDUITS SHALL BE SCHEDULE 40 PVC AND/OR HDPE PE 3608/3408 SDR 11 PIPE.
 - VALVE WIRE CONDUITS SHALL CONTAIN 1/4" NYLON PULL CORD FROM VALVE OR PULL BOX TO PULL BOX.
- J. DAILY LOGS AND RECORD DRAWINGS:
- CONTRACTOR SHALL KEEP ON-SITE AN ACCURATE DAILY LOG AND RECORD DRAWINGS OF ALL WORK ACTIVITIES AND WORK PERFORMED.
 - RECORD DRAWINGS AND LOGS SHALL BE MADE AVAILABLE TO THE PROJECT MANAGER UPON REQUEST AND AT THE PROJECT COMPLETION. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD DRAWINGS AND LOGS TO THE PROJECT MANAGER.

- K. EXISTING IRRIGATION SYSTEMS MAPPING:
- PRIOR TO ANY SITE PREPARATION THE CONTRACTOR SHALL LOCATE AND MAP OPERATION OF ALL EXISTING IRRIGATION SYSTEMS AND THEIR WATER SOURCES AND MAIN COMPONENTS.
 - MAPPING SHALL INCLUDE DEFINING EXISTING CONTROLLER OPERATIONS, RAIN SENSORS AND ZONE VALVE COVERAGE AREA. ONCE SYSTEMS ARE MAPPED THE EXISTING VALVE LOCATIONS SHALL HAVE THE VALVES REMOVED AND THE MAIN LINE SERVICE TEE PIPING EXTENDED TWO (2) FEET ABOVE GROUND AND CAPPED.
 - DETERMINE MEDIAN TO MEDIAN MAIN LINE PIPING, WIRING AND LATERAL ZONE PIPE CROSSING LOCATIONS. ANY LOCATED CROSSINGS SHALL BE SHALL MARKED AND EXCAVATED FOR CAPPING OR EXTENSIONS FOR PROPOSED PAVER INSTALLATIONS.
- L. IRRIGATION COMPONENTS TO BE REMOVED:
- ALL SALVAGEABLE SPRINKLER HEADS, VALVE BOXES, RAIN SENIORS AND RAINBIRD TBOS BATTERY CONTROLLERS SHALL BE DELIVERED TO THE CITY OF NAPLES STAFF AT THE DIRECTION OF THE PROJECT MANAGER.

IRRIGATION SYSTEM LEGEND

	RAINBIRD TBOS-II CONTROLLER: 1, 2, 4 OR 6 STATION BATTERY OPERATED CONTROLLER WITH AUTOMATIC RAIN SHUTOFF SENSOR
	EXISTING IRRIGATION CONTROLLERS CDC - COMMUNITY DEVELOPMENT BLDG. & PSC - POLICE STATION BLDG. WITH AUTOMATIC RAIN SHUTOFF SENSOR
	EXISTING WATER METER LOCATIONS FOR IRRIGATION WATER SOURCE:
	PROPOSED 1.5" OR 2" IRRIGATION MAIN LINE SERVICE FEEDS CONNECTED TO EXISTING WATER SOURCES OR MAIN LINES WITHIN MEDIANS.
	EXISTING IRRIGATION MAIN (ASSUMED LOCATION)
	EXISTING IRRIGATION VALVE WIRING (ASSUMED LOCATION)
	PROPOSED 1120-1220 CLASS 200 PVC LATERAL PIPING SIZES VARY BASED UPON FLOW
	ASSUMED EXISTING IRRIGATION SLEEVE CROSSINGS
	PROPOSED 2" HDPE IRRIGATION MAIN LINE BY DIRECTIONAL BORE (ALTERNATE)
	PROPOSED VALVE WIRE PULL/JUNCTION BOXES OR DIRECTIONAL BORE HDPE TO PVC CONNECTION POINTS. VALVE BOXES TO BE PLASTIC STANDARD SIZE PLASTIC RECTANGULAR BOXES WITH LABELED LIDS (ALTERNATE).
	EXISTING DC OR AC SOLENOID ZONE CONTROL VALVES WITH & WITHOUT RAIN SENSOR
	PROPOSED RAINBIRD 100 OR 150 PESBR-PRS-D, PED-NP-HAN1 OR HAN2 VALVES WITH AC OR TBOS-II POTTED LATCHING DC SOLENOIDS
	PROPOSED ISOLATION / GATE VALES SIZED TO MAIN OR SERVICE FEED
	PROPOSED RAINBIRD 1800 SERIES SPRAY SPRINKLERS WITH MPR & VAN ADJUSTABLE SERIES NOZZLES. RADIUS & PATTERN VARIES. MODEL No. 1812-PRS-NPCAP, 12" POP-UP & 1806-PRS-NPCAP, 6" POP-UP SPRAY SPRINKLERS.
	PROPOSED RAINBIRD MPR SERIES 15SST & 15 EST 4' X 30' NOZZLES ON 1812-PRS-NPCAP, 12" POP-UP & 1806-PRS-NPCAP, 6" POP-UP SPRAY SPRINKLERS.
	PROPOSED IRRITROL 533 ADJUSTABLE FLOW BUBBLERS ON FLEX TUBE. (2 OR 4) PER TREE.
	PROPOSED GREEN RPM- REFLECTIVE PAVEMENT MARKER EPOXY TO TOP OF CURB. ONE PER VALVE OR GROUP OF VALVES.
PROPOSED CONTROLLER, VALVE & ZONE IDENTIFICATION LABELS	
	CONTROLLER AND ZONE CONTROL VALVE NUMBER
	IRRIGATION ZONE CONTROL VALVE SIZE & SOLENOID CURRENT TYPE AC OR DC
	PROPOSED IRRIGATION ZONE ESTIMATED FLOW DEMAND
	PROPOSED IRRIGATION ZONE WATER APPLICATION METHOD OR TYPE
	PROPOSED IRRIGATION ZONE PLANT MATERIAL TYPES (E.G. SHRUBS, GRN CVR - GROUND COVERS, TREES - PALM OR CANOPY TREES
	VALVE CONTROL WIRE TYPE AND GAUGE SIZES, COMMON (WHITE) & ACTIVATION (RED)

	EXISTING RAIN SENSOR
	EXISTING CONTROLLER, VALVE & ZONE IDENTIFICATION LABELS
	CONTRACTOR SHALL FILL IN EXISTING INFORMATION DURING IRRIGATION MAPPING PROCESS.

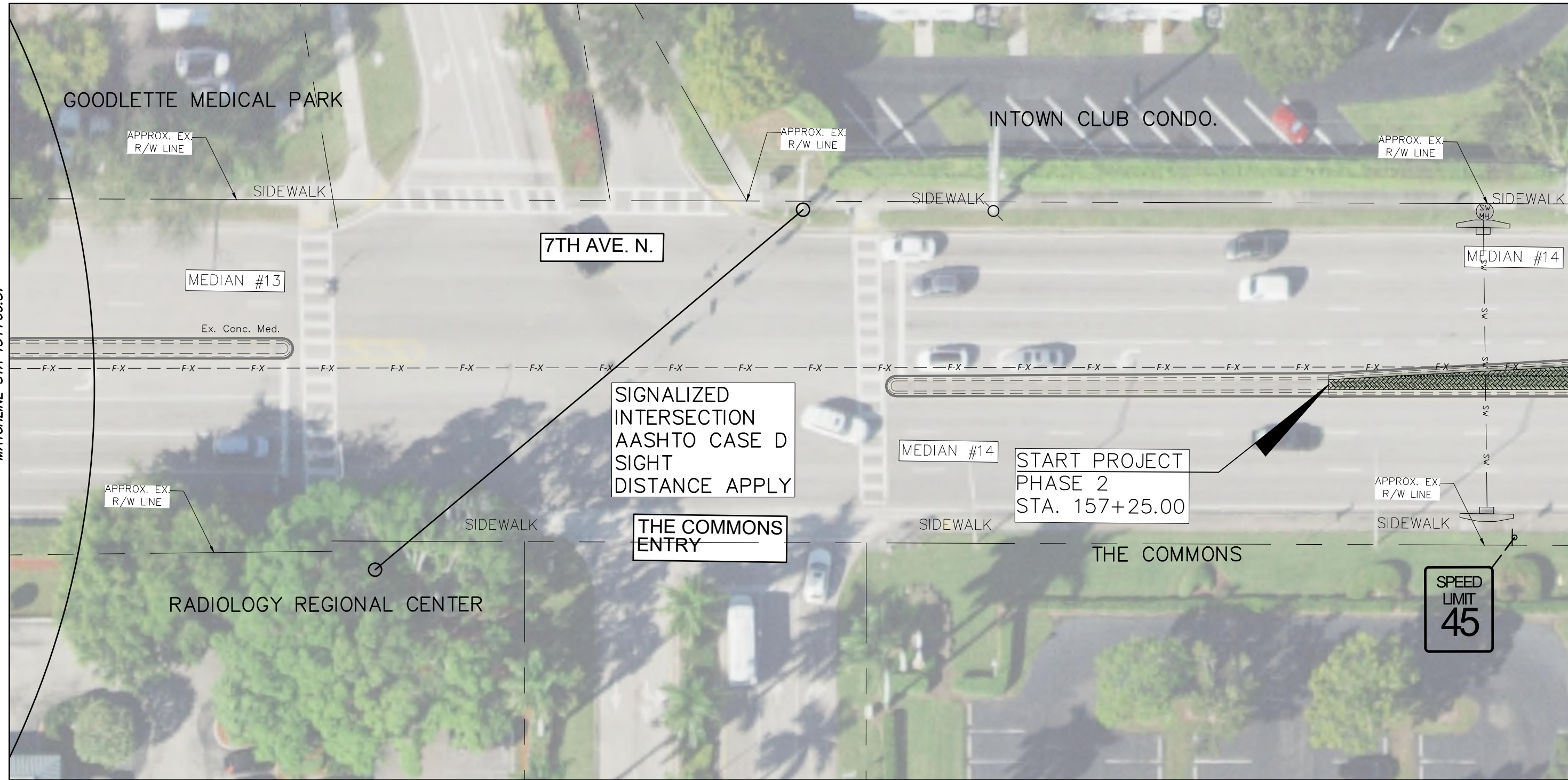
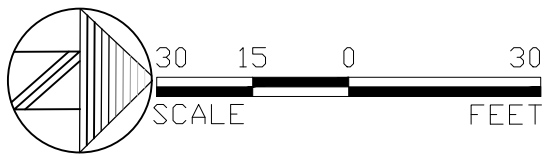
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LANDSCAPE PLAN
IRRIGATION GENERAL NOTES (2)
SHEET NO. LD-24

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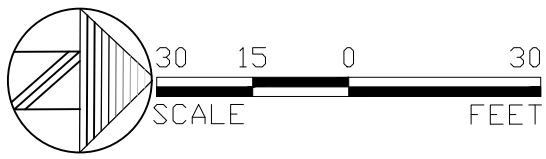
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LANDSCAPE PLAN
IRRIGATION PLAN (01)

SHEET NO.
LD-25

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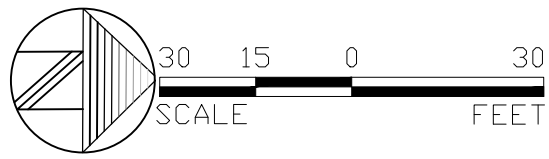
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LANDSCAPE PLAN
IRRIGATION PLAN (03)

SHEET NO.
LD-52



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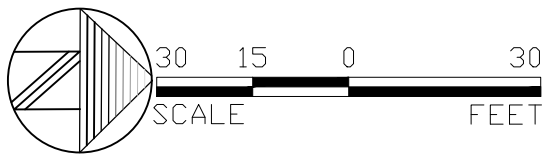
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LANDSCAPE PLAN
IRRIGATION PLAN (05)

SHEET NO.
LD-29

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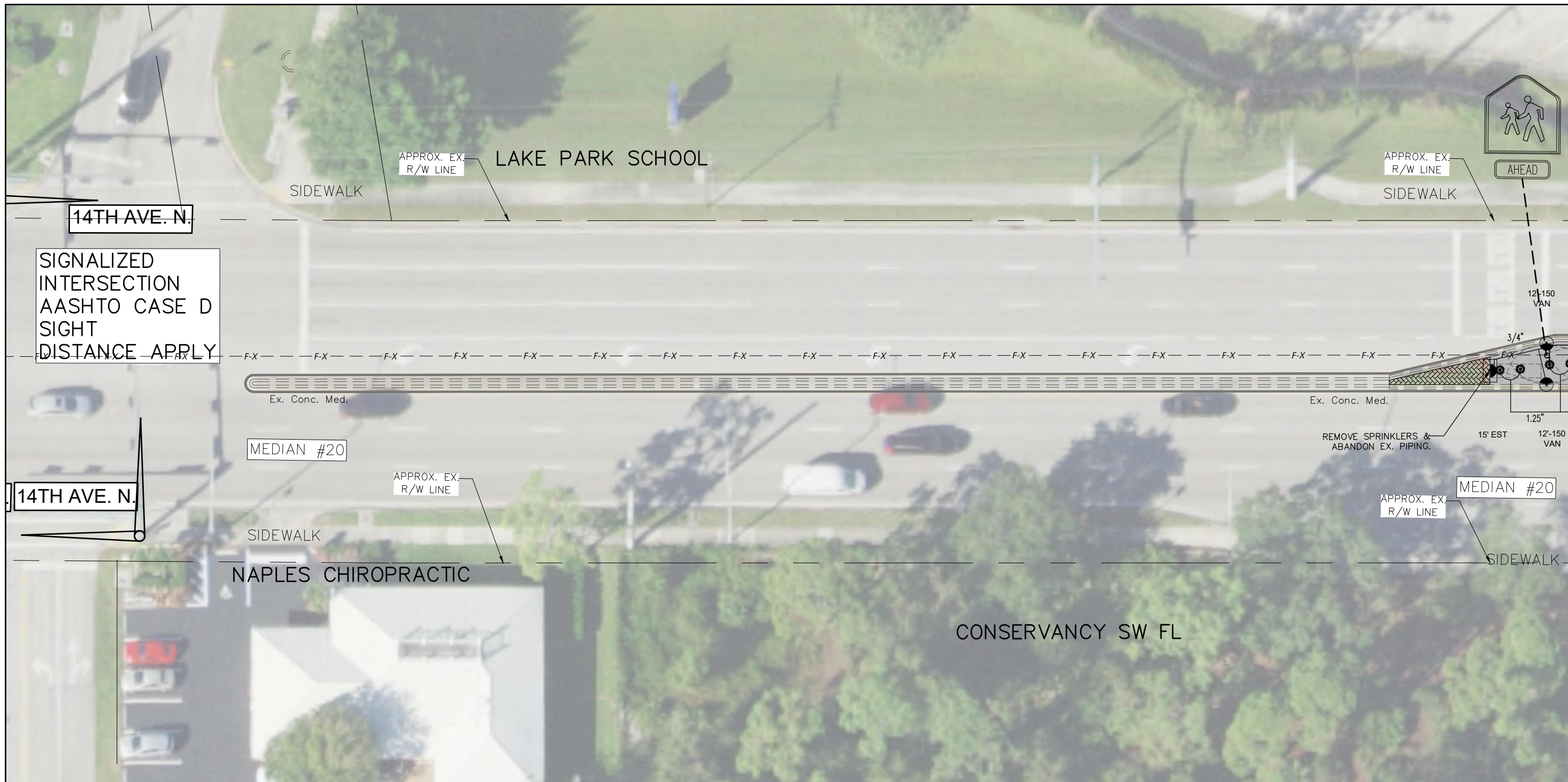
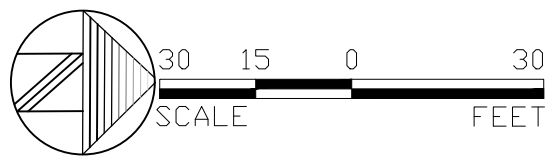
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LANDSCAPE PLAN
IRRIGATION PLAN (06)

SHEET NO.
LD-30

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MATCHLINE STA 182+04.75

MATCHLINE STA 186+60.57

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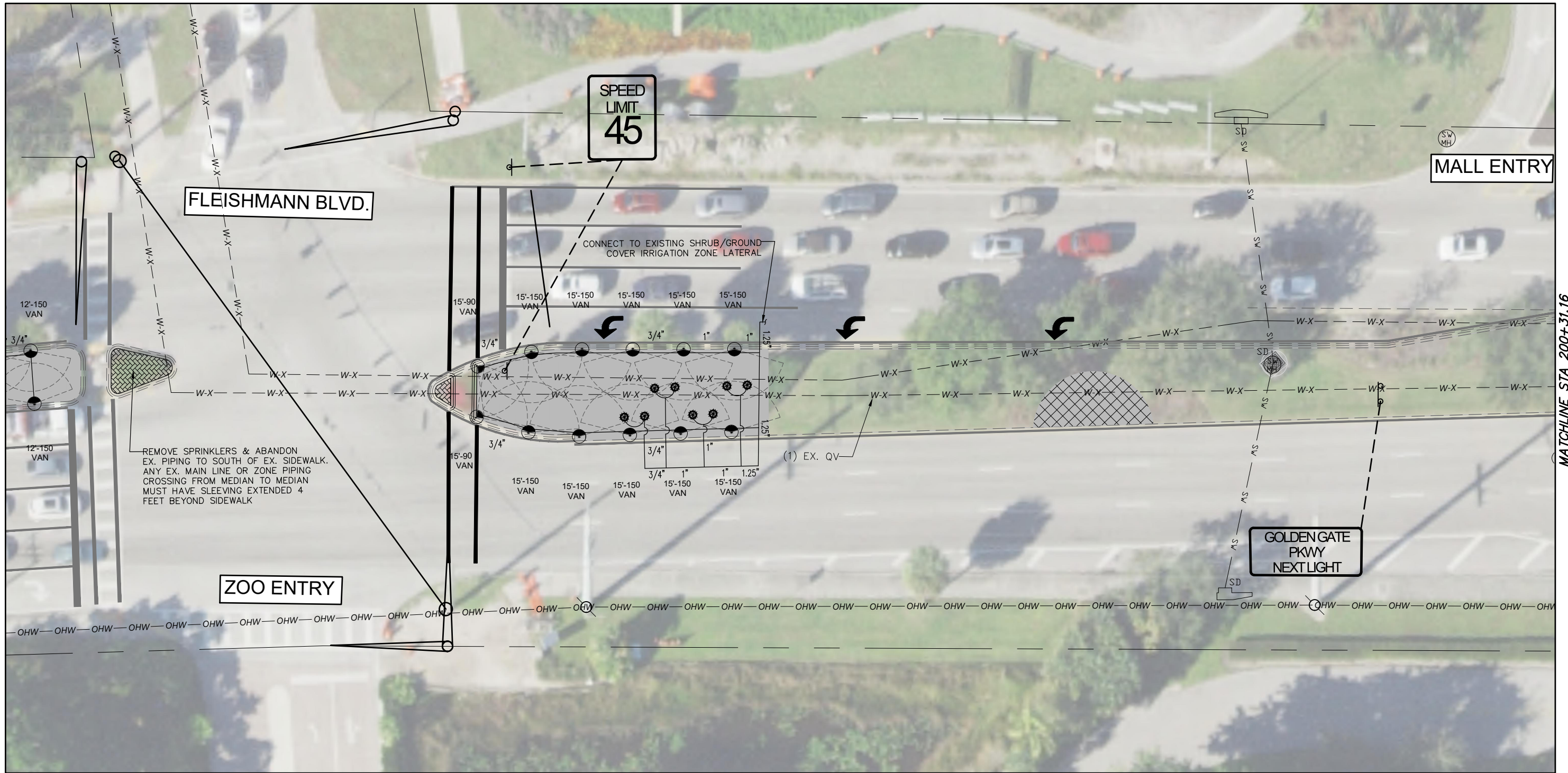
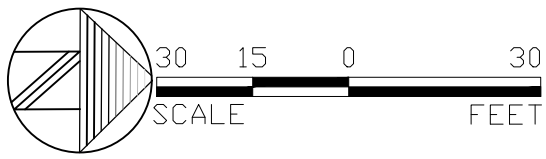
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LANDSCAPE PLAN
IRRIGATION PLAN (07)

SHEET NO.
LD-31



MATCHLINE STA 195+75.03

MATCHLINE STA 200+31.16

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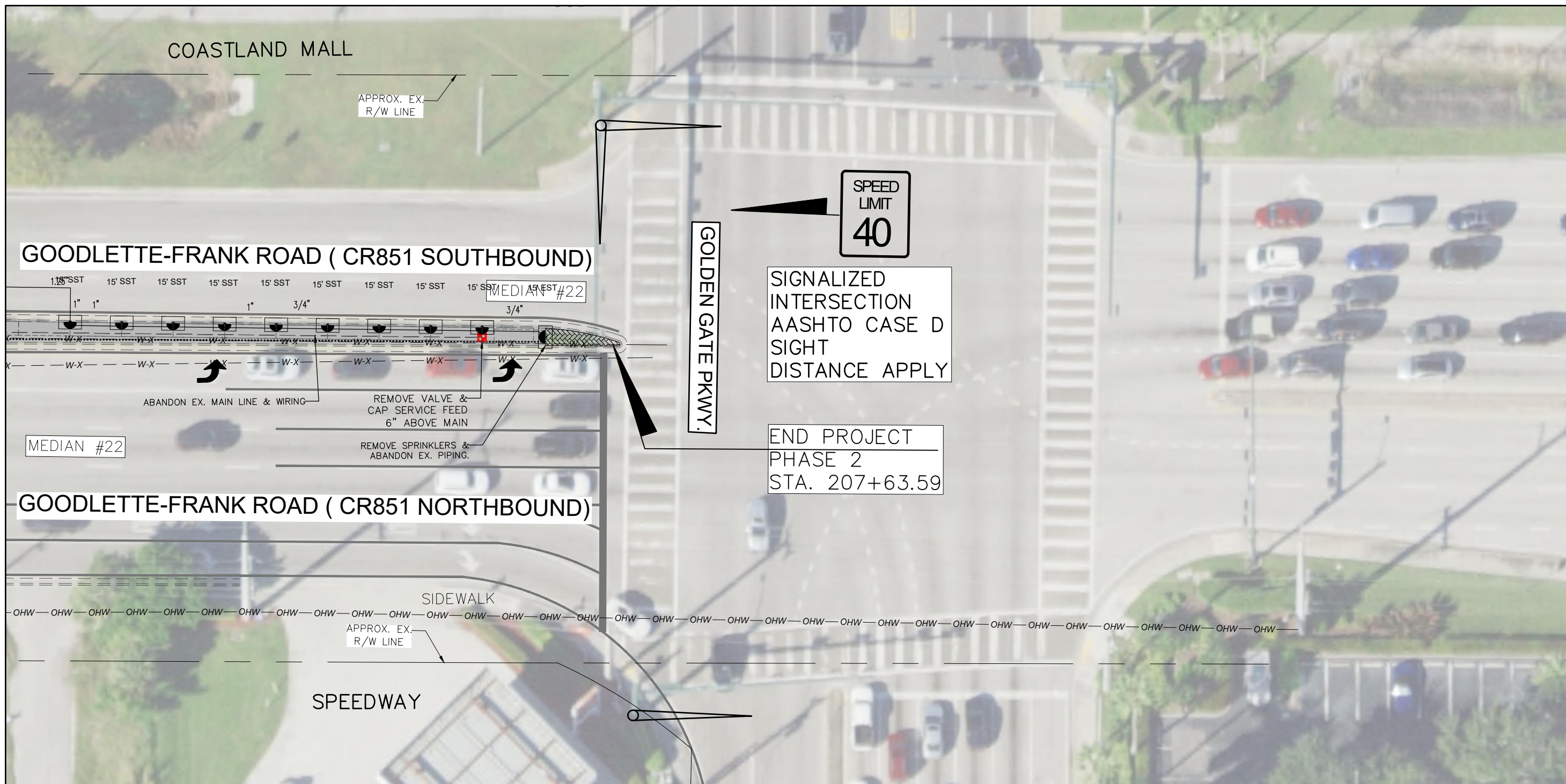
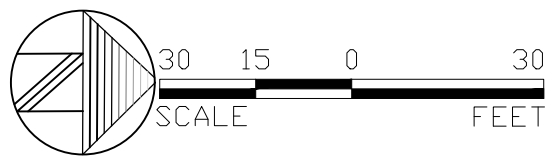
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
IRRIGATION PLAN (10)

SHEET NO.
LD-34



MATCHLINE STA 200+87.00

GOLDEN GATE PKWY.

SPEED
LIMIT
40

SIGNALIZED
INTERSECTION
AASHTO CASE D
SIGHT
DISTANCE APPLY

END PROJECT
PHASE 2
STA. 207+63.59

GOODLETTE-FRANK ROAD (CR851 SOUTHBOUND)

GOODLETTE-FRANK ROAD (CR851 NORTHBOUND)

MEDIAN #22

MEDIAN #22

SPEEDWAY

SIDEWALK

APPROX. EX.
R/W LINE

APPROX. EX.
R/W LINE

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

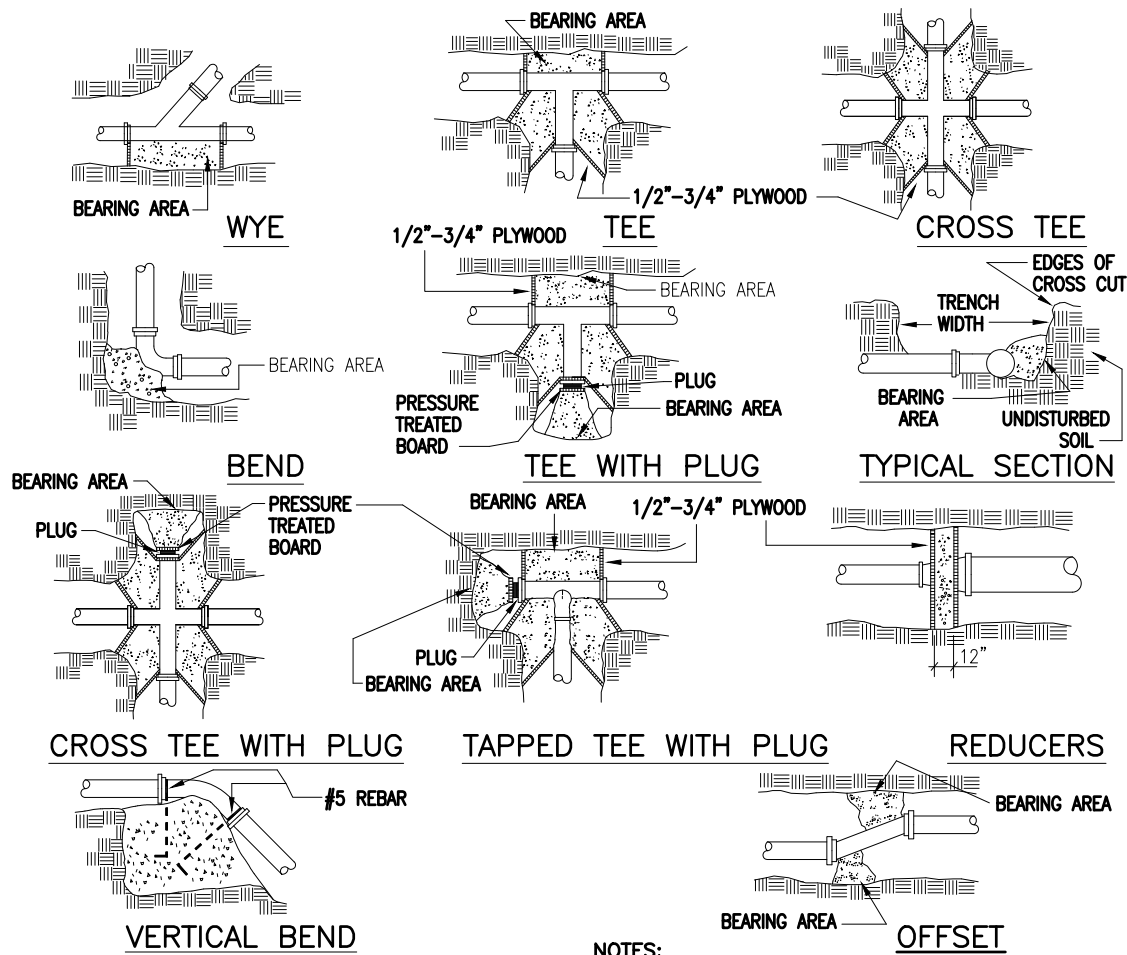
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
IRRIGATION PLAN (12)

SHEET
NO.
LD-36

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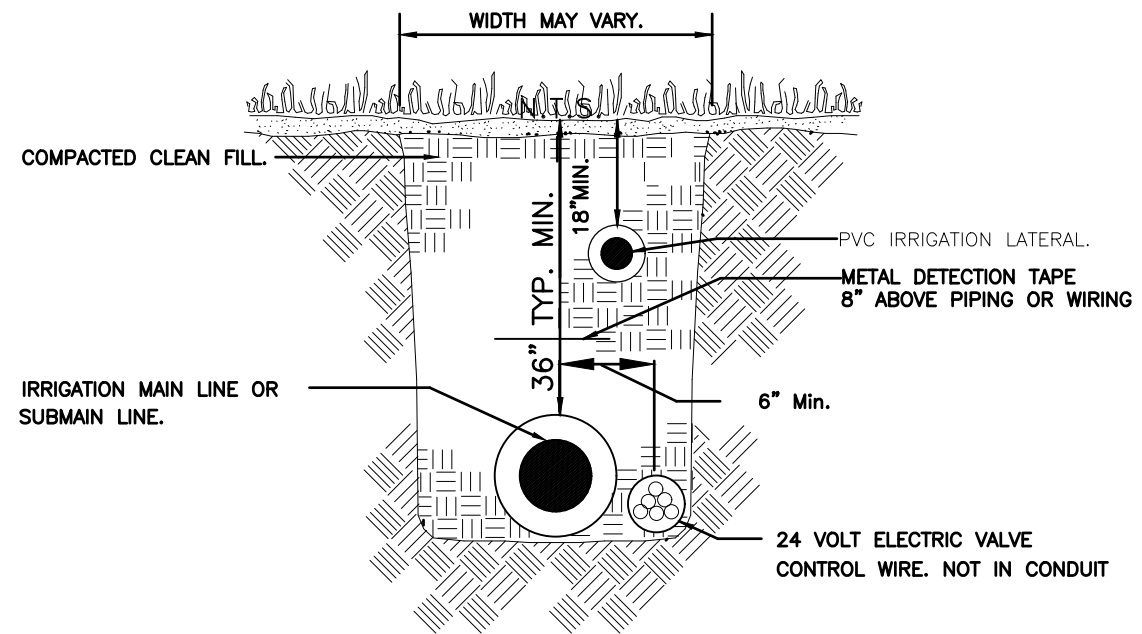
MINIMUM BEARING AREAS IN Sq.Ft. FOR THRUST BLOCKS.					
PIPE SIZE	TEES	90° BEND	45° BEND	22 1/2° BEND	WELVES & PLUGS
4"	1	1	1	1	1
6"	3	4	2	1	3
8"	5	7	4	2	5
10"	8	12	6	3	9
12"	12	16	9	5	12
16"	16	20	12	7	16
20"	24	20	17	10	24
24"	34	34	24	13	34

- NOTES:**
- ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH.
 - PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCKS.
 - POUR THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE SOIL & EXTEND THRUST BLOCK TO UNDISTURBED SOIL.
 - IN BACK FILLING, ANY MUCK ENCOUNTERED SHALL BE REMOVED & REPLACED WITH ACCEPTABLE MATERIAL.
 - BACK FILL MATERIAL SHALL NOT INCLUDE ROCK OR BOULDERS.
 - THRUST BLOCK AREAS BASED ON SOIL BEARING LOAD OF 2000 PSF. & LINE PRESSURE OF 150 PSI.
 - ALL IRRIGATION LINES LARGER THAN 2" ARE TO BE THRUST BLOCKED AS 4" SIZE.

THRUST BLOCK FORMS DETAIL
N.T.S.

RECOMMENDED FLOW RATE PIPE SIZING SCHEDULE:

Pipe Size:	Gallons Per Minute Flow (GPM)		
	Sch. 160 Pipe	Sch. 40 Pipe	Class 200 Pipe
1/2" dia.	less than 7 GPM	less than 4 GPM	N/A
3/4" dia.	8 to 10 GPM	5 to 8 GPM	less than 10 GPM
1" dia.	11 to 15 GPM	9 to 10 GPM	11 to 16 GPM
1.25" dia.	16 to 25 GPM	11 to 20 GPM	17 to 26 GPM
1.50" dia.	26 to 35 GPM	21 to 30 GPM	26 to 35 GPM
2.0" dia.	36 to 50 GPM	31 to 50 GPM	27 to 55 GPM
2.5" dia.	50 to 80 GPM	51 to 70 GPM	56 to 80 GPM



TRENCHING DEPTH FOR ALL MAIN LINES SHALL BE 48 INCHES UNLESS APPROVED BY LANDSCAPE ARCHITECT TO BE REDUCED BECAUSE OF MAIN LINE LOCATION OR DEPTH CONFLICTS.

ALL TRENCHING DEPTHS SHOWN ARE MINIMUM. IN THE EVENT THAT MINIMUM TRENCHING DEPTHS ARE NOT MET, THE TRENCHES SHALL BE RE-EXCAVATED.

DEPTH MEASUREMENTS ARE TO BE DONE FROM FLUSH GRADE TO TOP OF PIPE.

PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAIN LINE(S) AND LATERAL LINE(S).

ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED TO A 90% STANDARD PROCTOR DENSITY, ASTM D698-78.

PIPE PULLING THROUGH UN-TRENCHED SOIL IS NOT ALLOWED UNDER ANY CIRCUMSTANCE.

TYPICAL TRENCHING DETAIL
N.T.S.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
IRRIGATION DETAILS & LEGEND

SHEET NO.
LD-37

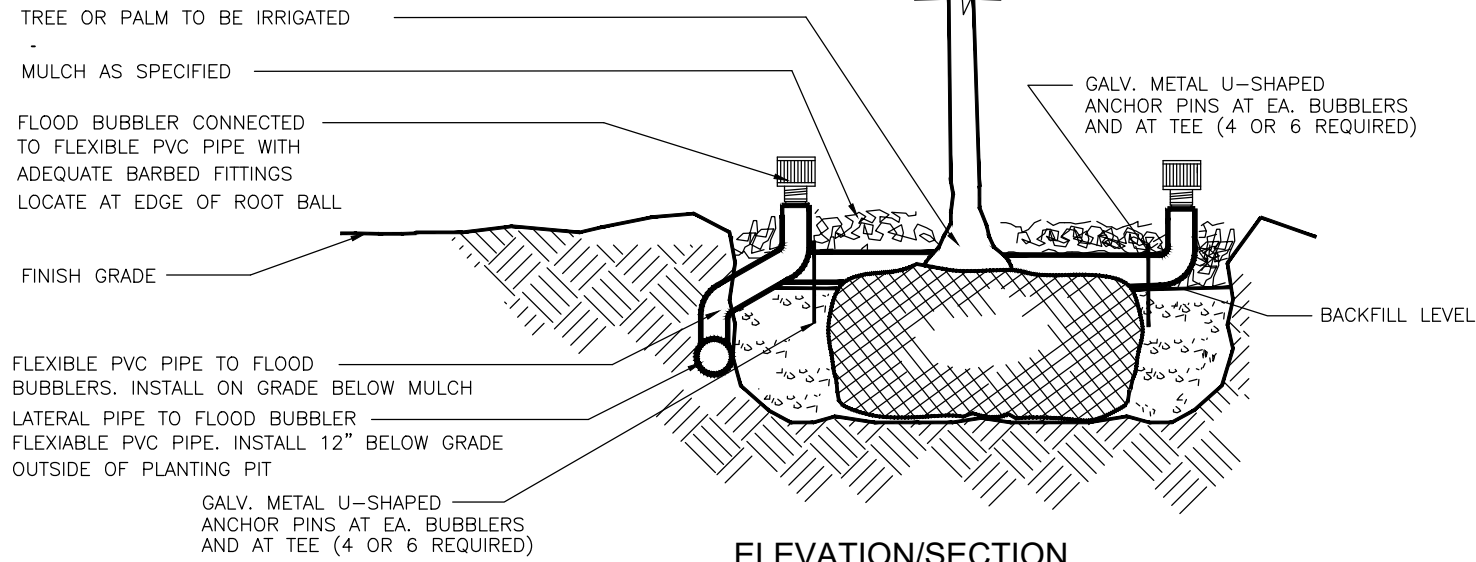
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NOTE :

REFER TO SCHEDULE FOR BUBBLER QUANTITIES PER TREE TYPES.

ALL BUBBLERS SHALL BE ZONED SEPARATE FROM OTHER ZONES.

BUBBLER IS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER. DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL NEXT TO TRUNK.



ELEVATION/SECTION

NOTES :

SET ALL BUBBLERS TO A .5 GPM FLOW

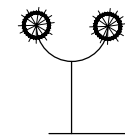
GALV. METAL U-SHAPED ANCHOR PINS AT EA. BUBBLERS AND AT TEE (4 OR 6 REQUIRED)
LIMIT OF MULCH RING

PERIMETER OF ROOT BALL
BUBBLERS (2 OR 4 REQUIRED)

TREE TRUNK
1/2" DIA. FLEXIBLE PIPE

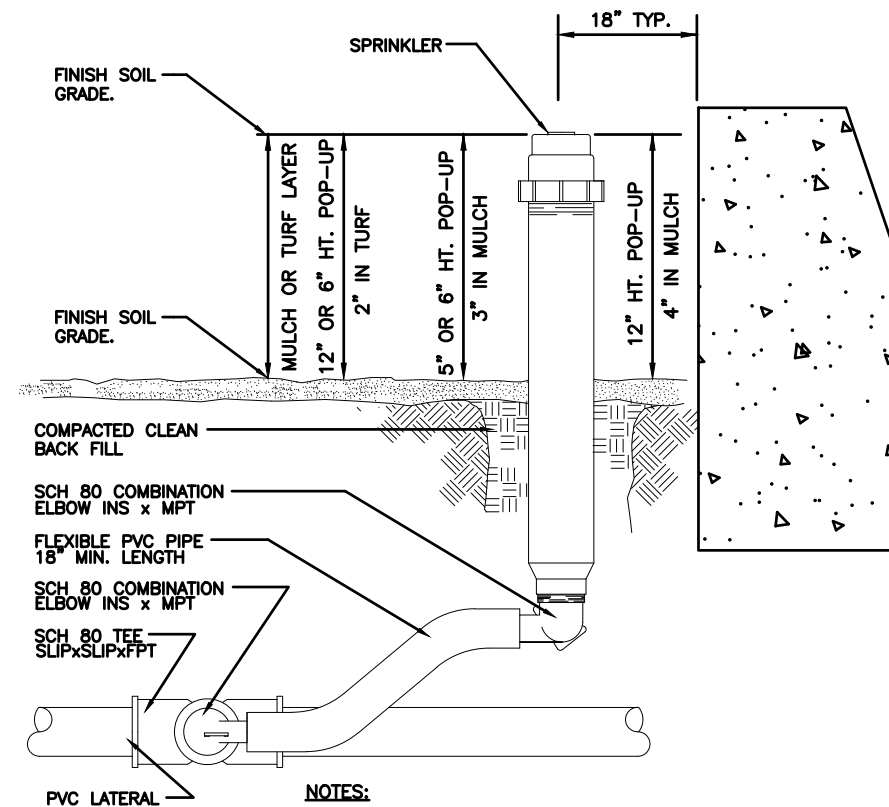
LATERAL PIPE
CLASS 200 PVC

PLAN VIEW



TREE/PALM FLOOD BUBBLERS INSTALLATION DETAIL

N.T.S.



NOTES:

SPRINKLER BODIES SHALL BE INSTALLED PERPENDICULAR (90°) TO GRADE IN FLAT OR SLIGHTLY SLOPED AREAS.

12" POP-UP SPRAY UNITS FOR THIS PROJECT SHALL BE INSTALLED PARALLEL TO THE CENTER LINE OF THE FIRST ROW OF PLANTINGS. NO 12" POP-UP SPRINKLER SHALL OCCUR WITHIN 12" +/- OF THE BACK OF CURB.

ALL THREADED CONNECTIONS SHALL BE WRAPPED WITH TEFLON TAPE. 4 TAPE TURNS MINIMUM.

SPRINKLER HEAD INSTALLATION DETAIL

N.T.S.

TREE/PALM BUBBLER REFERENCE GUIDE

DESCRIPTION	BUBBLER QTY. PER TREE	ESTABLISHMENT FLOW RATE
LIVE OAKS	(4)	.5 GPM BUBBLER PER TREE.
ALL OTHER PALMS & TREES	(2)	.5 GPM BUBBLER PER PALM.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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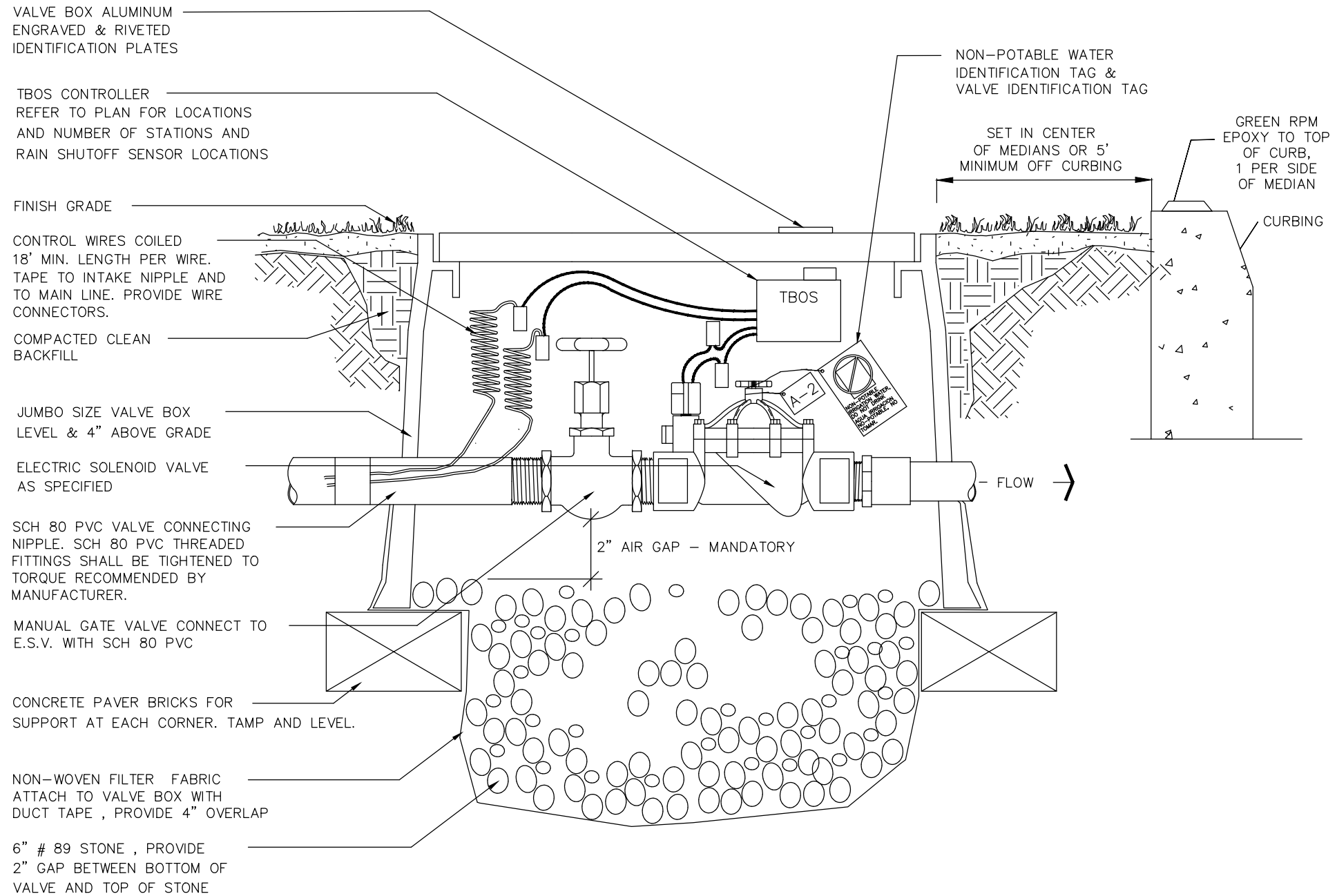
**CITY OF NAPLES CITY COUNCIL
COMMUNITY SERVICES DEPARTMENT**

ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

**LANDSCAPE PLAN
IRRIGATION PLAN (01)**

**SHEET NO.
LD-38**

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TYPICAL ELECTRIC SOLENOID VALVE ASSEMBLY

N.T.S.



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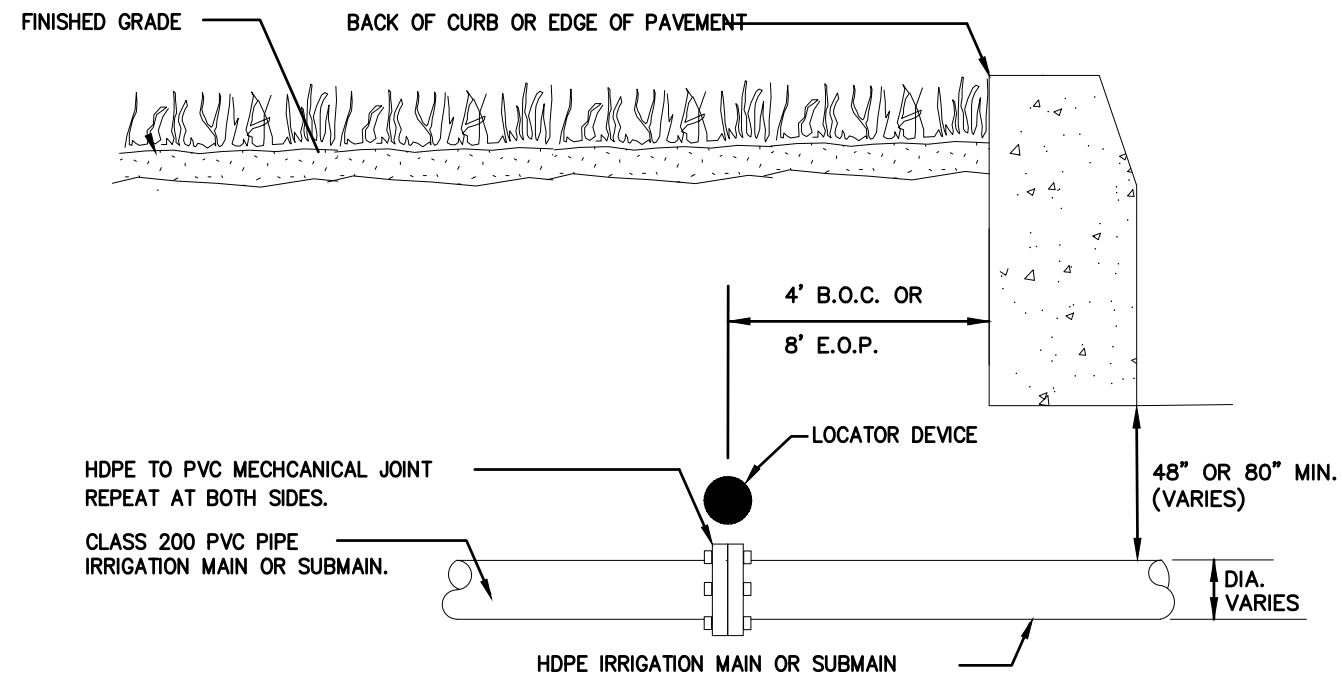
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN IRRIGATION PLAN (02)
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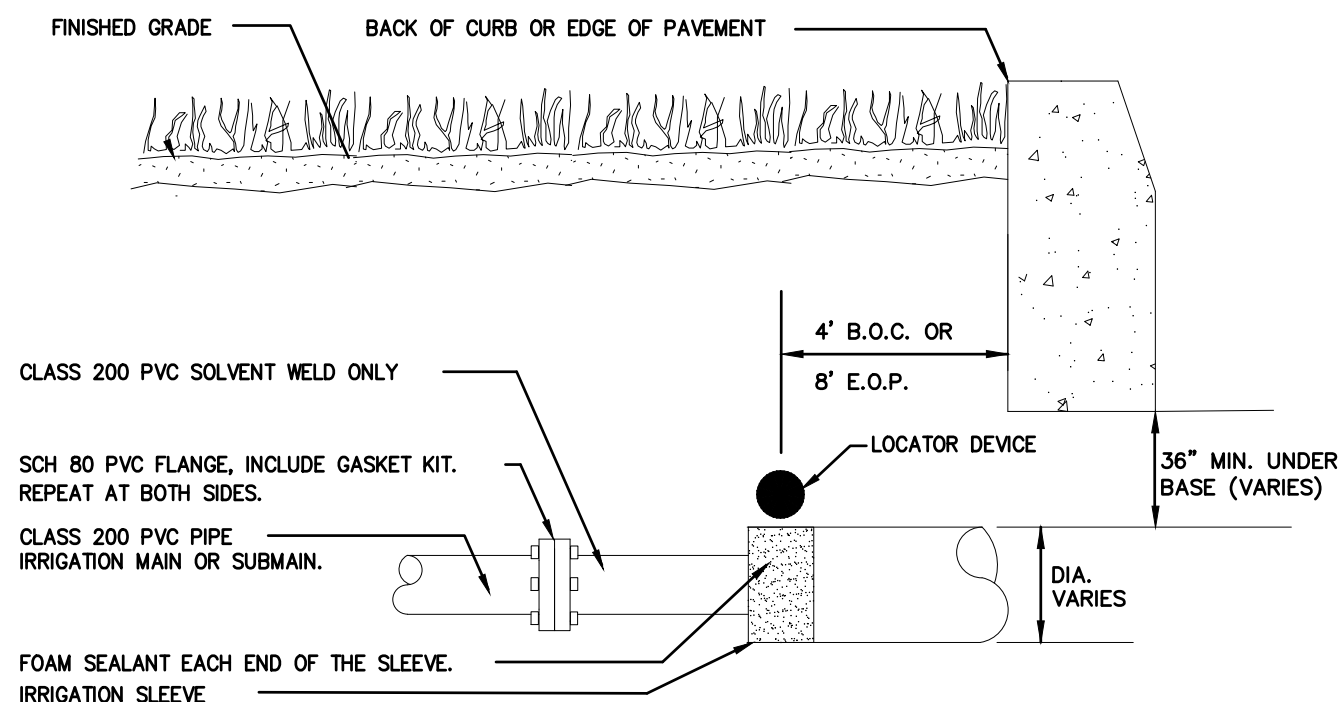
SHEET NO.
LD-39



BORES SHALL EXTEND: 8' FROM THE EDGE OF PAVEMENT AT VEHICULAR PAVED SURFACES WITH NO CURBING
 4' FROM THE BACK OF CURB AT VEHICULAR PAVED SURFACES: 4' FROM CONCRETE DRIVE OR SIDEWALK EDGE.

MAIN LINE ROADWAY CROSSING WITH DIRECTIONAL BORE

N.T.S.



SLEEVES SHALL EXTEND: 8' FROM THE EDGE OF PAVEMENT AT VEHICULAR PAVED SURFACES WITH NO CURBING
 4' FROM THE BACK OF CURB AT VEHICULAR PAVED SURFACES: 4' FROM CONCRETE DRIVE OR SIDEWALK EDGE.

IRRIGATION SLEEVE CONNECTION & SEALING DETAIL

N.T.S.

MINIMUM OFFSETS
 CONCRETE CURB 4'
 CONCRETE SIDEWALK 4'
 ASPHALT PAVEMENT 8'

NOTES:

DIRECTIONAL BORE SLEEVES SHALL HAVE ELECTRONIC BALL TYPE (E.G. ELECTRONIC MARKERS) LOCATE DEVICES INSTALLED ON TOP OF ALL SLEEVE PIPE ENDS.

COLOR SHALL BE PURPLE AND USE A FREQUENCY OF 66.35 kHz FOR "NON-POTABLE / GENERAL PURPOSE" APPLICATIONS.

EXISTING UTILITY SIZE & LOCATIONS VARIES

18" MINIMUM CLEARANCE PER OR AS PER LOCAL CODE

MINIMUM OFFSETS
 CONCRETE CURB 4'
 CONCRETE SIDEWALK 4'
 ASPHALT PAVEMENT 8'

48" MIN. TO TOP OF PIPE

TYPICAL DIRECTIONAL BORING PROFILE / SECTION

N.T.S.

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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
 IRRIGATION PLAN (03)


SHEET NO.
 LD-40

IRRIGATION TABULATION OF QUANTITIES

BID ITEM No.	BID / PAY ITEM No.	BID / PAY ITEM DESCRIPTION	UNIT	MEDIAN NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
				M-14		M-15		M-16		M-20		M-21		M-22					
				SHEET NUMBERS															
				LD-25, 26 & 27		LD-27 & 28		LD-28 & 29		LD-31,32 & 33		LD-33 & 34		LD-34,35 & 36		PLAN	FINAL	PLAN	FINAL
1	590-70 *	FURNISH & INSTALL: RAINBIRD TBOS BATTERY OPERATED CONTROLLER TBOS-II TBOS2CM2 (2 station)	EA					1								1			
2	590-70 *	FURNISH & INSTALL: RAINBIRD TBOS BATTERY OPERATED CONTROLLER TBOS-II TBOS2CM4 (4 station)	EA	1		1				1					1				4
3	590-70 *	FURNISH & INSTALL: RAINBIRD TBOS BATTERY OPERATED CONTROLLER TBOS-II TBOS2CM6 (6 station)	EA																
4	590-70 *	FURNISH & INSTALL MAIN LINE: 2" PVC PANTONE PURPLE 522C, 1120-1220 CLASS 200 SOLVENT WELD IRRIGATION PIPING. BY TRENCHING, SEE PLAN NOTES AND DETAILS.	LF						20					20					40
5	590-70 *	FURNISH & INSTALL MAIN LINE: 1.5" PVC PANTONE PURPLE 522C, 1120-1220 CLASS 200 SOLVENT WELD IRRIGATION PIPING. BY TRENCHING, SEE PLAN NOTES AND DETAILS.	LF	20		20		2											42
6	590-70 *	FURNISH & INSTALL: RAINBIRD 100PESB-R-PRS-D: 1" PESB-R SERIES ELECTRIC DC POTTED LATCHING SOLENOID VALVE; 1.5" RED WHITE 206 SERIES ISOLATION VALVE.	EA	2		3		2		1				2					10
7	590-70 *	FURNISH & INSTALL: RAINBIRD 150PESB-R-PRS-D: 1.5" PESB-R SERIES ELECTRIC DC POTTED LATCHING SOLENOID VALVE; 2" RED WHITE 206 SERIES ISOLATION VALVE.	EA	1						3				1					5
8	590-70 *	RAINBIRD 1800 SERIES SPRAY MODEL 1806-PRS-30-NPCAP 6" POP-UP WITH MPR OR VAN NOZZLES. RADIUS AND COVERAGE PATTERN VARY. INCLUDES PVC PANTONE PURPLE 522C 1120-1220 CLASS 200 SOLVENT WELD LATERAL PIPING FROM ZONE VALVES TO SPRINKLERS.	EA	19		12		9		17		9		19					85
9	590-70 *	RAINBIRD 1800 SERIES SPRAY MODEL 1812-PRS-30-NPCAP 12" POP-UP WITH MPR OR VAN NOZZLES. RADIUS AND COVERAGE PATTERN VARY. INCLUDES PVC PANTONE PURPLE 522C 1120-1220 CLASS 200 SOLVENT WELD LATERAL PIPING FROM ZONE VALVES TO SPRINKLERS.	EA	36		12				62		4		35					149
10	590-70 *	FURNISH & INSTALL: IRRITROL 533 ADJUSTABLE FLOOD BUBBLERS. (2) BUBBLERS PER TREE. INCLUDES PVC PANTONE PURPLE 522C 1120-1220 CLASS 200 SOLVENT WELD LATERAL PIPING FROM ZONE VALVES TO SPRINKLERS AND FLEX PIPING AT TREE LOCATIONS. SIZE PIPE FOR PROPER FLOWS AS RECOMMENDED IN THE PIPE SIZING SCHEDULE.	EA	21		6		4		24		3							58
11	590-70 *	FURNISH & INSTALL: GREEN (RPM) REFLECTIVE PAVEMENT MARKERS ON TOP OF CURBING OR ON PAVEMENT EDGE AT EACH VALVE OR GROUPS OF VALVES. EPOXY SET PER FDOT SPECIFICATIONS.	EA	2		2		2		2				2					10
12	590-70 *	FURNISH & INSTALL: 1" DIA. SCH. 40 PVC VALVE WIRE GRAY CONDUIT BY TRENCHING. TO INCLUDE ALL CONNECTIONS, SWEEPS & FITTINGS.	LF	10		10		5		15				20					60
13	590-70 * (ALTERNATE)	VALVE BOX: HIGHLINE RECTANGLUR JUMBO SIZE W/LID LABEL. LID TO READ "IRRIGATION". 6" EXTENSIONS AS NEEDED. REUSE WATER COLOR CODED. "OR APPROVED EQUAL"	EA	5		5		2		4				4					20
14	590-70 *	1.5" RED WHITE 206 SERIES ISOLATION / GATE VALVE IN JUMBO SIZE VALVE BOX	EA	1		1		1											3
15	590-70 *	2" RED WHITE 206 SERIES ISOLATION / GATE VALVE IN JUMBO SIZE VALVE BOX	EA							1				1					2
16	590-70 *	FURNISH & INSTALL: VALVE CONTROL WIRE, 6-PLEX AWG 16 GA. PVC JACKETED SOLID COPPER INSULATED WIRE SUITABLE FOR DIRECT BURIAL. (100 FT. MAXIMUM RUN WITH TBOS CONTROLLERS)	LF	20		20		10		30				40					120
17	590-70 * (ALTERNATE)	FURNISH: LOCATION AND EXCAVATION OF EXISTING MAIN LINE, LATERAL PIPING AND/OR VALVE WIRING FOR PAVER LOCATIONS AT MEDIAN ENDS AND ROADWAY CROSSINGS. CAP END OF ZONE LATERAL PIPING OUTSIDE OF PROPOSED PAVERS.	EA							1									1
18	590-70 * (ALTERNATE)	FURNISH & INSTALL: < 6" DIA. SCHEDULE 40 PVC PIPE FOR LATERAL PIPE, MAIN LINE AND/OR VALVE WIRING SLEEVE/CASING EXTENSIONS AT PAVER LOCATIONS. TO INCLUDE EXTENSION OF PIPES BEING SLEEVED.	LF							20									20
19	590-70 * (ALTERNATE)	FURNISH & INSTALL: < 3" DIA. HDPE PIPE FOR SLEEVE/CASING EXTENSIONS FOR PAVER LOCATIONS	LF							20									20
20	590-70 * (ALTERNATE)	FURNISH & INSTALL: < 3" DIA. PVC TO HDPE OR HDPE TO HDPE MECHANICAL JOINT INTERCONNECTING FITTINGS FOR PAVER LOCATIONS	EA							1									1
21	590-70 *	FURNISH & INSTALL: RAINBIRD RSD-Box RAIN SHUTOFF DEVICE ON 2" DIA. GALVANIZED FENCE END POST WITH CAP 6 FEET ABOVE GROUND AND 2 FEET IN GROUND WITH 10" DIA, B Y 1 FOOT DEPTH CEMENT COLLAR FOOTING. TO INCLUDE WIRING THROUGH POST AND TO TBOS-II CONTROLLER.	EA	1		1		1		1				1					5
22	590-70 *	FURNISH & INSTALL: SERVICE TEE ASSEMBLY: 1.5", 2" OR 2.5" DIA, BASED UPON FLOW REQUIREMENTS; PVC PANTONE PURPLE 522C 1120-1220 CLASS 200 SOLVENT WELD PIPING & CONNECTIONS FOR SERVICE TEE & SERVICE LINE TO VALVES.	EA	1		1		1		1				1					5
23	590-70 *	FURNISH & INSTALL: OMNI MARKERS MODEL 168 (PURPLE) SEE NOTES, SPECIFICATIONS AND DETAILS FOR INSTALLATION REQUIREMENTS	EA	2		2		2		4				2					12

NOTE: (ALTERNATE) - INDICATES BID ITEMS THAT MAY BE DELETED FROM THE CONTRACT OR ADJUSTED UP OR DOWN BASED UPON FOUND SITE CONDITIONS.

* - IDENTIFIES ITEMS NORMALLY REQUIRING SHOP DRAWINGS, PHOTOS OR PLANS. CONTRACTOR SHALL DETERMINE OTHER ITEMS THAT REQUIRE SHOP DRAWINGS FOR SUBMITTALS.

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							ROAD NO.	COUNTY	PROJECT ID	CR851	COLLIER	20-02-09-13-20F32-PH2	LD-41

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LANDSCAPE GENERAL NOTES:

THESE SPECIFICATIONS ARE IN ADDITION TO CITY OF NAPLES AND/OR FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARDS.

- 1) SOIL ENHANCEMENT – SOIL STRUCTURE IMPROVEMENT:
 - A. MECHANICALLY SCARIFY / LOOSEN EXISTING SOIL TO AN (6 – 8) SIX TO EIGHT INCH DEPTH IN PROPOSED PLANTING AREAS. SCARIFY SHALL MEAN THE RIPPING AND LOOSENING 100 PERCENT OF THE EXISTING SOIL AREA TO A 6” TO 8” DEPTH. THE SCARIFYING AREAS SHALL BE ONLY IN THE PROPOSED PLANTING AREAS LESS AN TWELVE (12) INCH OFFSET FROM THE BACK OF ALL CURBING AND PAVER AREAS.
 - B. SOIL STRUCTURE IMPROVEMENT & SOIL REPLACEMENT SHALL INCLUDE ROUGH AND FINAL GRADING. MEDIAN SOIL CROSS SECTION PROFILE GRADE SHALL BE GENERALLY ROUNDED ALONG THE CENTER LINE TO A POINT NO GREATER THAN FOUR (4) OR TWO (2) INCHES ABOVE THE TOP OF THE CURBING, BASED UPON MEDIAN WIDTH AND THEN SLOPE DOWNWARD TOWARD THE BACK OF CURBING TO A POINT FOUR (4) INCHES BELOW TOP OF CURBING AT BACK OF CURB.
 - C. SOIL REPLACEMENT SHALL BE WITH PROPOSED BACKFILL SOIL OR CLEAN EXISTING SOIL TO PROVIDE FOR A UNIFORM PROFILE ACROSS THE MEDIAN TO INCLUDE FILLING OF ANY TREE, SHRUB OR GROUND COVER REMOVAL HOLES.
 - D. APPLY (2) POST-EMERGENT HERBICIDE APPLICATIONS TO ALL AREAS TO RECEIVE MULCH. FIRST APPLICATION SHALL BE AFTER SOIL ENHANCEMENT ACTIVITIES SECOND APPLICATION SHALL BE PRIOR TO PLANTINGS. APPLICATIONS SHALL BE MADE A MINIMUM OF (7) DAYS PRIOR TO ANY PLANT INSTALLATIONS. WEED CONTROL IN ALL MULCH AREAS SHALL BE MAINTAINED THROUGH INSTALLATION PERIOD UNTIL FINAL PROJECT ACCEPTANCE. SUBMIT PRODUCT AND APPLICATION PROCEDURES TO THE PROJECT MANAGER / LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2) LANDSCAPE SOIL: MEDIAN SOIL BACKFILL AND/OR UNSUITABLE PLANTING PIT SOILS SHALL BE PER FDOT DESIGN SPECIFICATIONS SECTION 987 'SOIL LAYER MATERIALS' SECTION 987.2.4. SUBMIT SOIL SAMPLES TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO ON-SITE CONSTRUCTION. THE CONTRACTOR SHALL PAY TO HAVE TESTS PERFORMED.

MEDIAN BACKFILL (TOPSOIL) SPECIFICATION

- A. TOPSOIL SOURCE FOR PLANTING SHALL BE PROVIDED BY THE CONTRACTOR FROM OFF SITE SOURCES.
- B. TOPSOIL SHALL BE SUITABLE FOR ORNAMENTAL PLANT GROWTH AND FREE FROM HARD CLODS, STIFF CLAY, HARDPAN, GRAVEL, SUBSOIL, BRUSH, LARGE ROOTS, REFUSE, OR OTHER DELETERIOUS MATERIAL, AND OF REASONABLE UNIFORM QUALITY. TOPSOIL AFTER PLACEMENT SHALL BE TREATED WITH PRE- AND POST-EMERGENT HERBICIDES TO REMOVE WEEDS.
- C. MECHANICAL ANALYSIS: TOPSOIL AND SOIL MIXTURE(S) SHALL MEET THESE SPECIFICATIONS AND THE FOLLOWING MECHANICAL ANALYSIS:

SIEVE SIZE	PERCENTAGE
1 INCH	99-100
¼ INCH	97- 99
NO. 200	LESS THAN 7%

MATERIALS LARGER THAN ONE INCH SHALL BE DISPOSED OF OFF THE SITE.
EXISTING LEAF LITTER AND PLANT MATERIAL SHALL BE REMOVED FROM TOPSOIL AND SOIL MIX.
- D. MAXIMUM SOLUBLE SALTS: 0 250 PPM. SOIL SALINITY: 0 – 4 MMHO/CM
- E. CONTRACTOR SHALL ASSURE EXISTING SOILS ARE FREE OF ANY VISIBLE WEEDS.
- F. IN THE EVENT TOPSOIL ON SITE DOES NOT MEET THE ABOVE REQUIREMENTS, TOPSOIL MEETING THE REQUIREMENTS MAY BE IMPORTED FROM OFF-SITE SOURCES AFTER APPROVAL BY LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.

MINIMUM OFF-SITE TOPSOIL REQUIREMENTS:
TOPSOIL SHALL BE FRIABLE, FERTILE SOIL WITH REPRESENTATIVE CHARACTERISTICS OF LOCAL SOILS. IT SHALL BE FREE OF HEAVY CLAY, MARL, STONE, EXTRANEIOUS LIME, PLANT ROOTS, REFUSE, STICKS, BRUSH, LITTER, AND ANY HARMFUL MATERIALS. THERE SHALL BE NO EXOTIC OR NOXIOUS WEEDS OR WEED SEEDS (I.E. NUT GRASS, BERMUDA GRASS, SEDGES AND THE LIKE). IN NO CASE SHALL THERE BE MORE THAN FIVE PERCENT (5%) BY VOLUME OF STONES, COARSE SAND, GRAVEL OR CLAY LUMPS LARGER THAN ONE INCH (1”) IN DIAMETER. THE SOIL SHALL TEST IN THE PH RANGE OF 5.5 TO 7.0 AND SHALL CONTAIN NO SUBSTANCE WHICH WILL IMPEDE PLANT GROWTH. ADJUSTMENT OF THE PH SHALL ONLY BE ALLOWED FOR INCREASING THE PH LEVEL BY ADDING DOLOMITIC LIMESTONE. THE TOPSOIL SHALL BE SAMPLED, AND LABORATORY TESTED FOR CERTIFICATION AND APPROVAL PRIOR TO INSTALLATION.

TOPSOIL SHALL CONFORM TO THE FOLLOWING COMPOSITION RANGES:

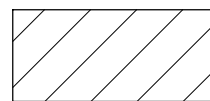
COMPONENTS	VOLUME MEASURE	PARTICLE SIZE
ORGANIC MATTER OR AMENDMENTS (HIGH-LIGNIN COMPOST PREFERRED)	3 % TO 5 %	
SILT	4 % TO 5 %	.002 TO .05 MM
SAND	75 % TO 85 %	.50 TO 2.0 MM (25% COARSE SAND) .25 TO .50 MM (30% MEDIUM SAND) .05 TO .25 MM (45% FINE SAND)
CLAY	6 % TO 8 %	.002 MM & BELOW

- G. COMPACTION: REDUCE THE MINIMUM REQUIRED DENSITY FROM 100% TO 70% OF AASHTO T99 METHOD C FOR ALL EARTHWORK ITEMS WHERE LANDSCAPE PLANTINGS WILL OCCUR.

SOIL PREPARATION LEGEND



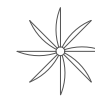
INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING, AND SOIL STRUCTURE IMPROVEMENTS



INDICATES MEDIAN AREAS TO RECEIVE SELECTIVE BACKFILL TO CREATE UNIFORM PROFILE



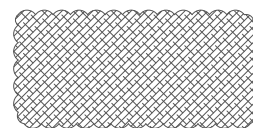
EXISTING CANOPY TREES



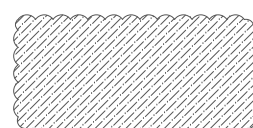
EXISTING PALMS



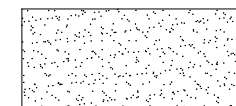
EXISTING IRRIGATION BOX



EXISTING SHRUB BEDS



EXISTING GROUND COVER BEDS



INDICATES EXISTING TURF AREAS



AREAS OF PROPOSED PAVERS & EXCAVATION FOR PAVERS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

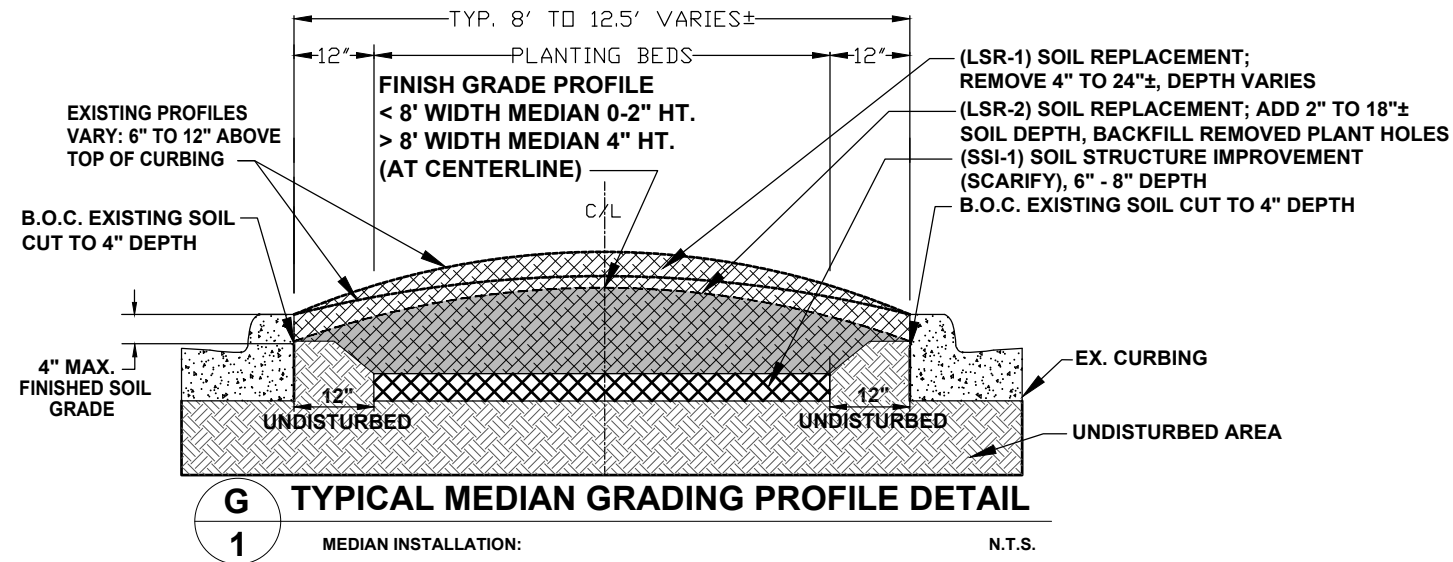
LANDSCAPE PLAN
SITE PREPARATION
GENERAL NOTES & DETAILS (1)

SHEET NO.
LD-42

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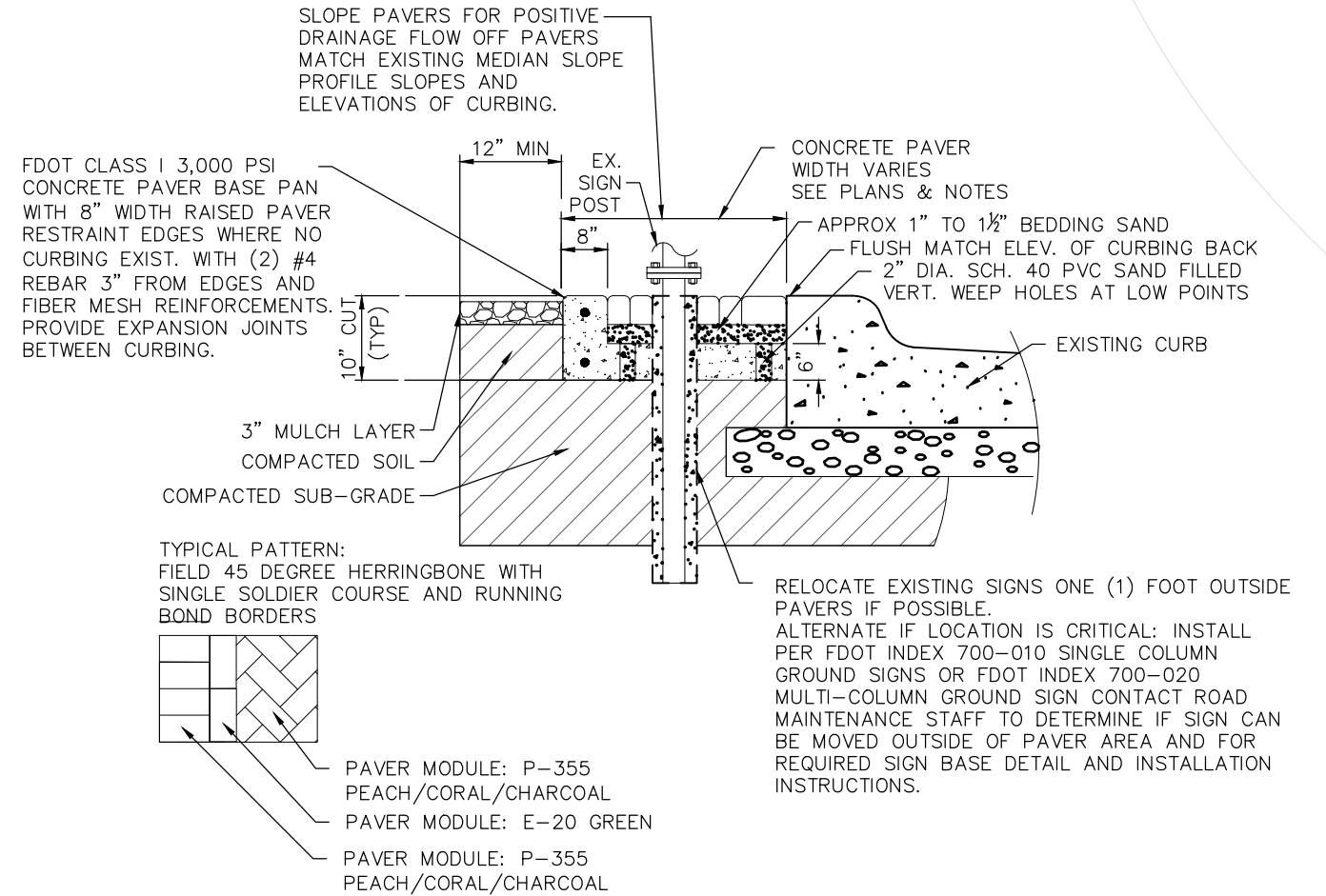
MEDIAN PROFILE, GRADING AND SOIL ENHANCEMENT SPECIFICATIONS

1. REFER TO GENERAL NOTES FOR SOIL ENHANCEMENT NOTES AND SPECIFICATIONS.
2. CLEAN EXISTING SOIL WITH NO ROOTS OVER 1/2" DIA. MAYBE USED FOR BACKFILL OF REMOVED PLANT HOLES.



MEDIAN GRADING AND SOIL PREPARATION SPECIFICATIONS RECOMMENDED SITE PREPARATION PROCEDURE AND GRADING NOTES

1. INSTALL IRRIGATION MAIN LINE WITH SERVICE TEE STUB-UPS TO SURFACE.
2. EXCAVATE AND REPLACE SOIL PER PROPOSED MEDIAN BACKFILL SECTION.
3. INSTALL IRRIGATION LATERAL LINES AND SPRINKLER FLEX PIPING TO SURFACE.
4. FINE GRADE MEDIANS TO PROPOSED UNIFORM PROFILE AND REMOVE ALL DEBRIS LARGER THAN 2 INCH IN DIAMETER FROM WITHIN THE TOP OF THE FINISH GRADE.
5. MAINTAIN MEDIANS WEED FREE DURING INSTALLATION AND UNTIL FINAL ACCEPTANCE.



TYPICAL MEDIAN ARCHITECTURA PAVERS DETAIL

NOTES

1. PAVERS INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT 'STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES CONSTRUCTION SECTION 526 'ARCHITECTURAL PAVERS' AND MANUFACTURERS SPECIFICATIONS.
2. CONFIRM COLOR AND SIZE WITH OWNER PRIOR TO INSTALLATION. SAMPLES TO BE SUBMITTED.
3. BASE SHALL BE INSTALLED PER FDOT 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' PER CONCRETE PAVING WITH CLASS 1 (3,000 PSI) CONCRETE.
4. PAVER COST SHALL INCLUDE EXCAVATION OF EXISTING SOIL TO TEN (10) INCH DEPTH AND COMPACTION OF SOIL AREA PRIOR TO CONCRETE BASE PLACEMENT.
5. THE PAVERS SHALL MEET ASTM DESIGNATION C936-82 IN A NOMINAL 4" X 8" PAVER SIZE.
6. BIDDER SHALL PROVIDE INSTALLED SQ. YD. UNIT PRICES FOR PAVERS AND CONCRETE BASE TO INCLUDE TESTING BY APPROVED TESTING FACILITY, AS REQUIRED.
7. PAVER QUANTITIES DO NOT INCLUDE WASTE FACTOR.
8. SEE THE TYPICAL MEDIAN CONCRETE PAVER DETAIL ABOVE FOR ADDITIONAL INSTALLATION REQUIREMENTS

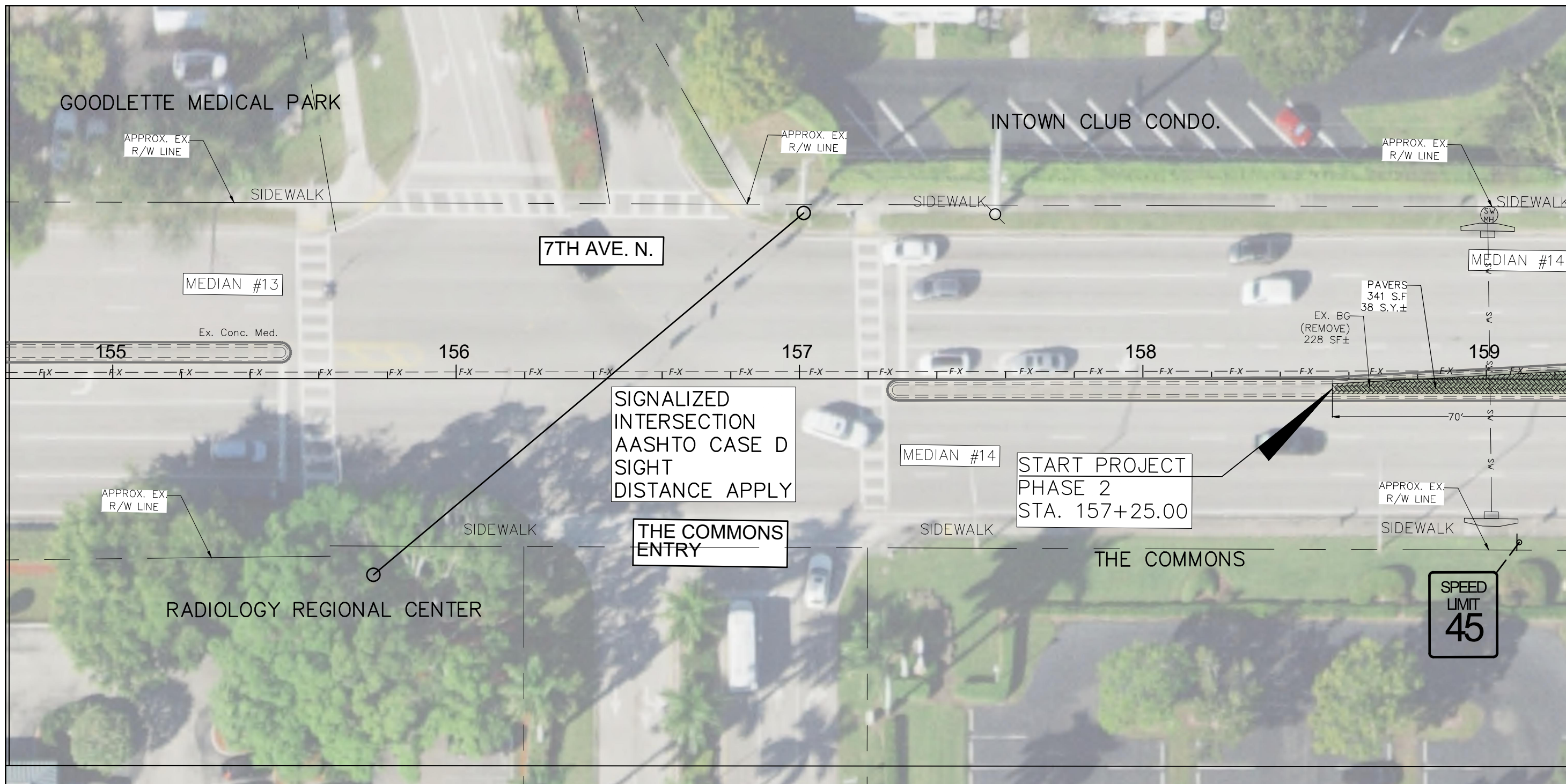
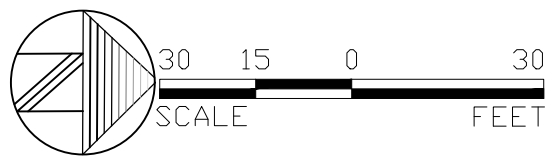
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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
SITE PREPARATION
GENERAL NOTES & DETAILS (2)
LD-43

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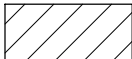
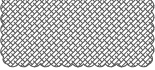



MATCHLINE STA 154+69.81

MATCHLINE STA 159+25.63

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-  EXISTING GROUND COVER BEDS
-  INDICATES EXISTING TURF AREAS
-  AREAS OF PROPOSED PAVERS & EXCAVATION FOR PAVERS

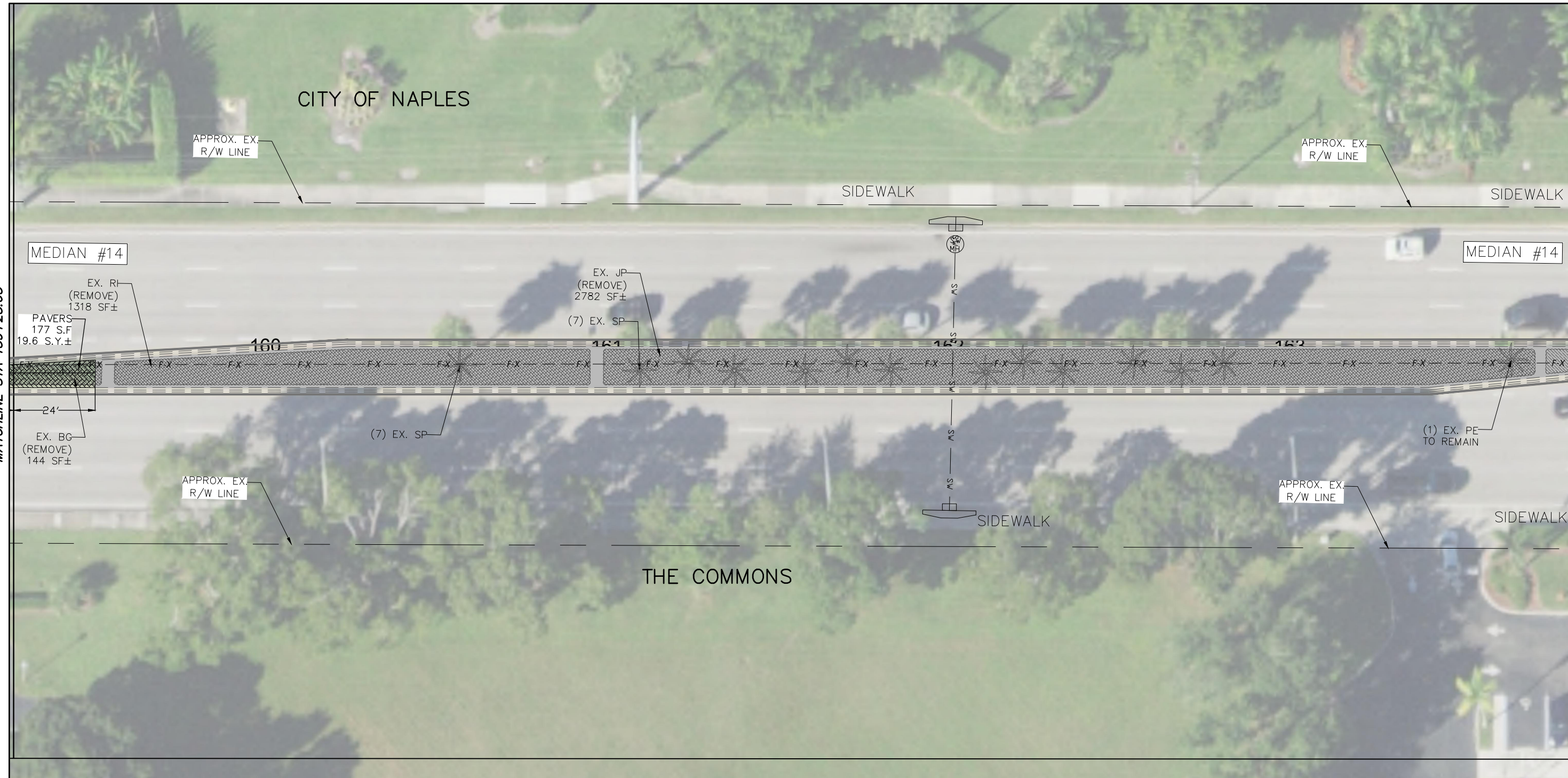
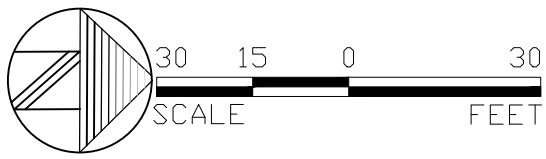
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ROAD NO.	COUNTY	PROJECT ID
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LANDSCAPE PLAN
SITE PREPARATION (01)

SHEET NO.
LD-44



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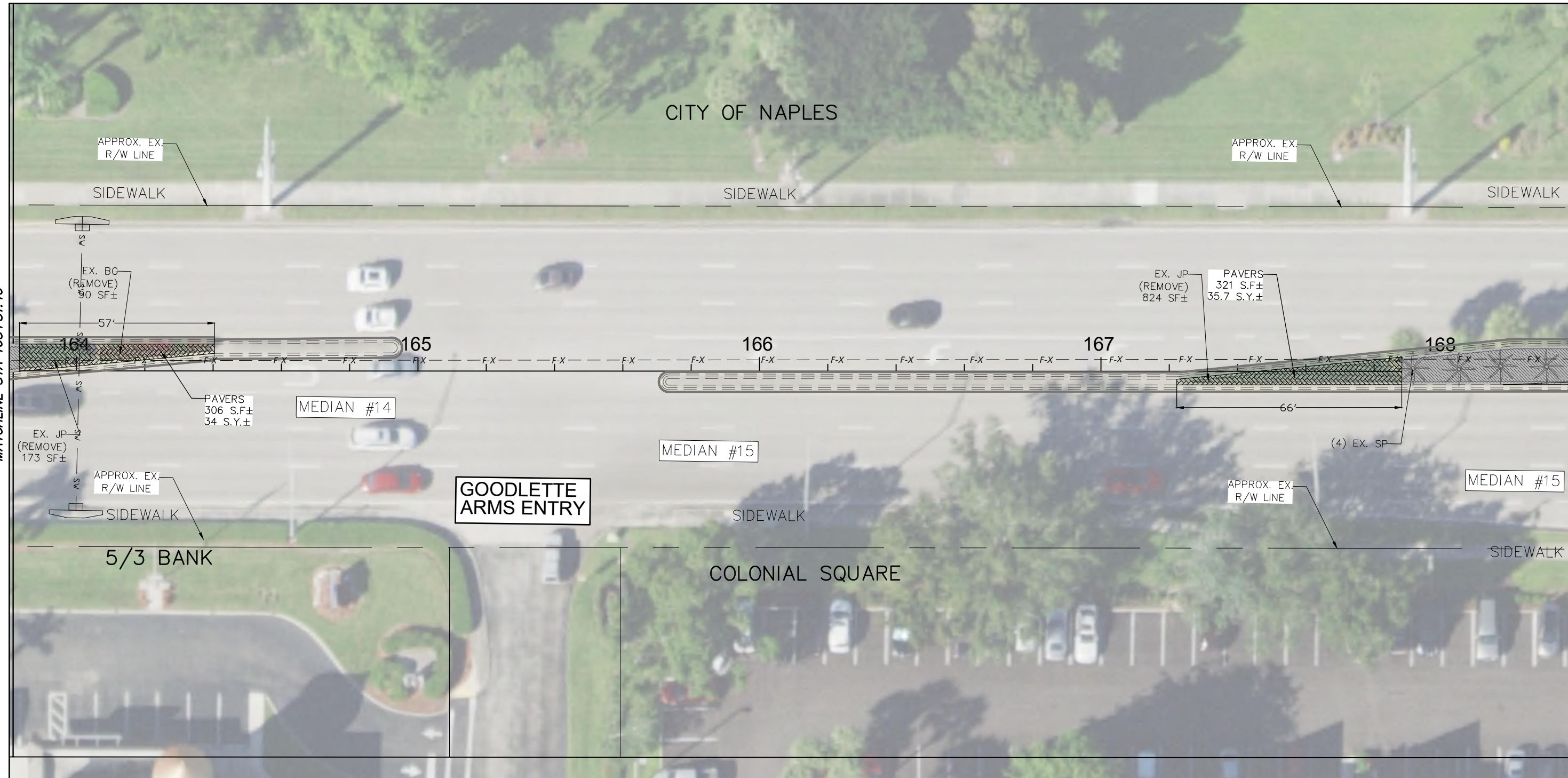
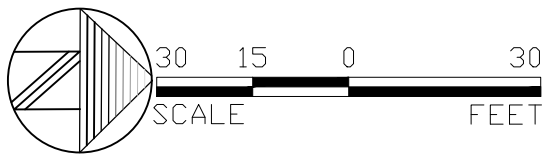
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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
SITE PREPARATION (02)

SHEET NO.
LD-45

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MATCHLINE STA 163+81.46

MATCHLINE STA 168+37.28

SOIL PREPARATION LEGEND

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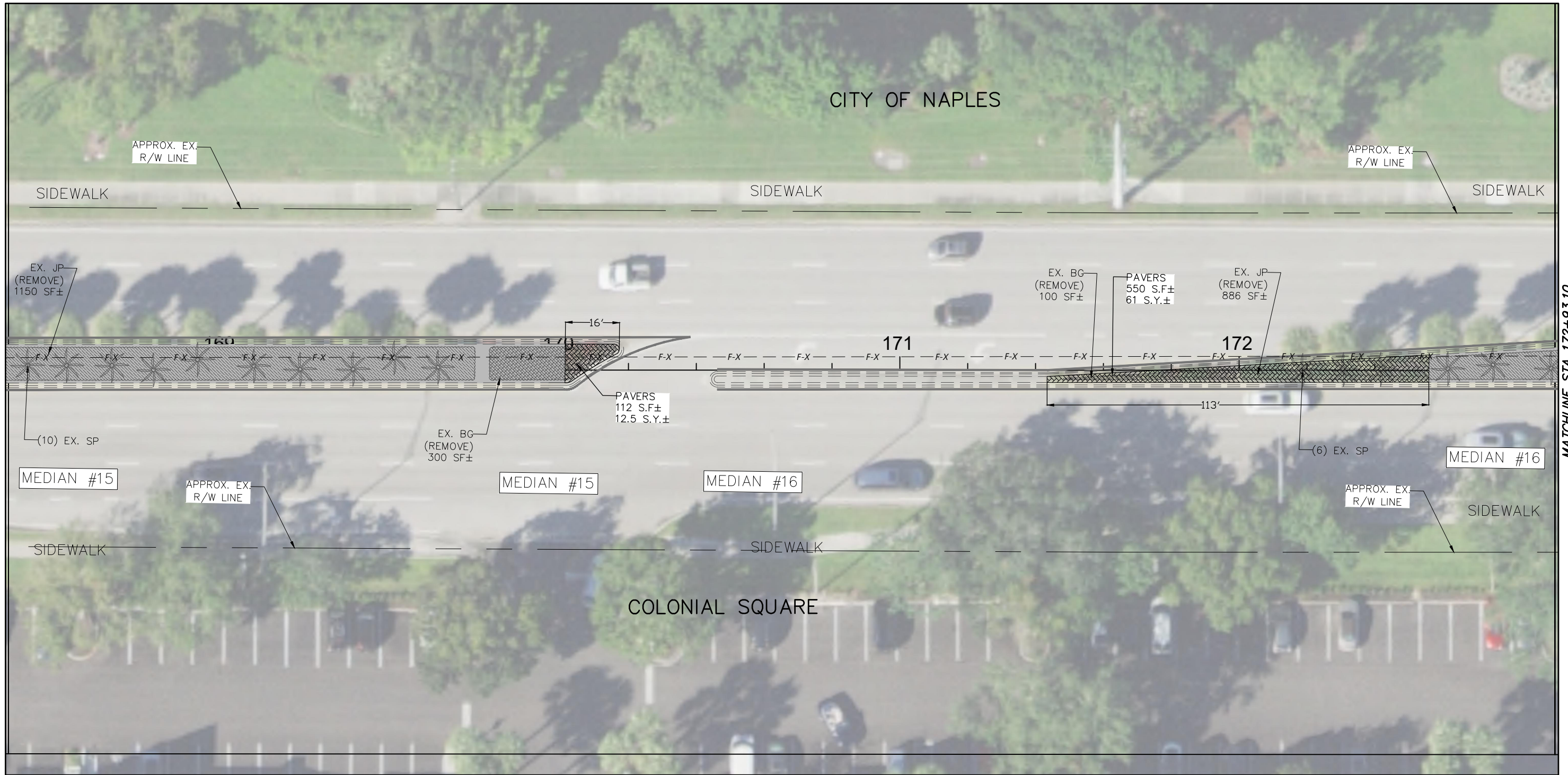
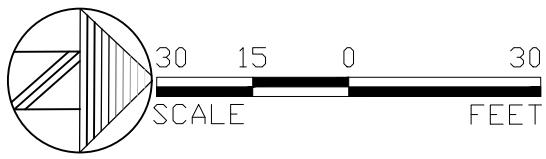
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LANDSCAPE PLAN
SITE PREPARATION (03)

SHEET NO.
LD-46

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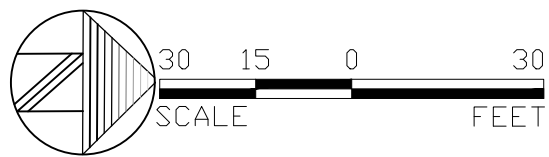
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LANDSCAPE PLAN
SITE PREPARATION (04)

SHEET NO.
LD-47

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CITY OF NAPLES




MATCHLINE STA 172+93.10

MATCHLINE STA 177+48.98

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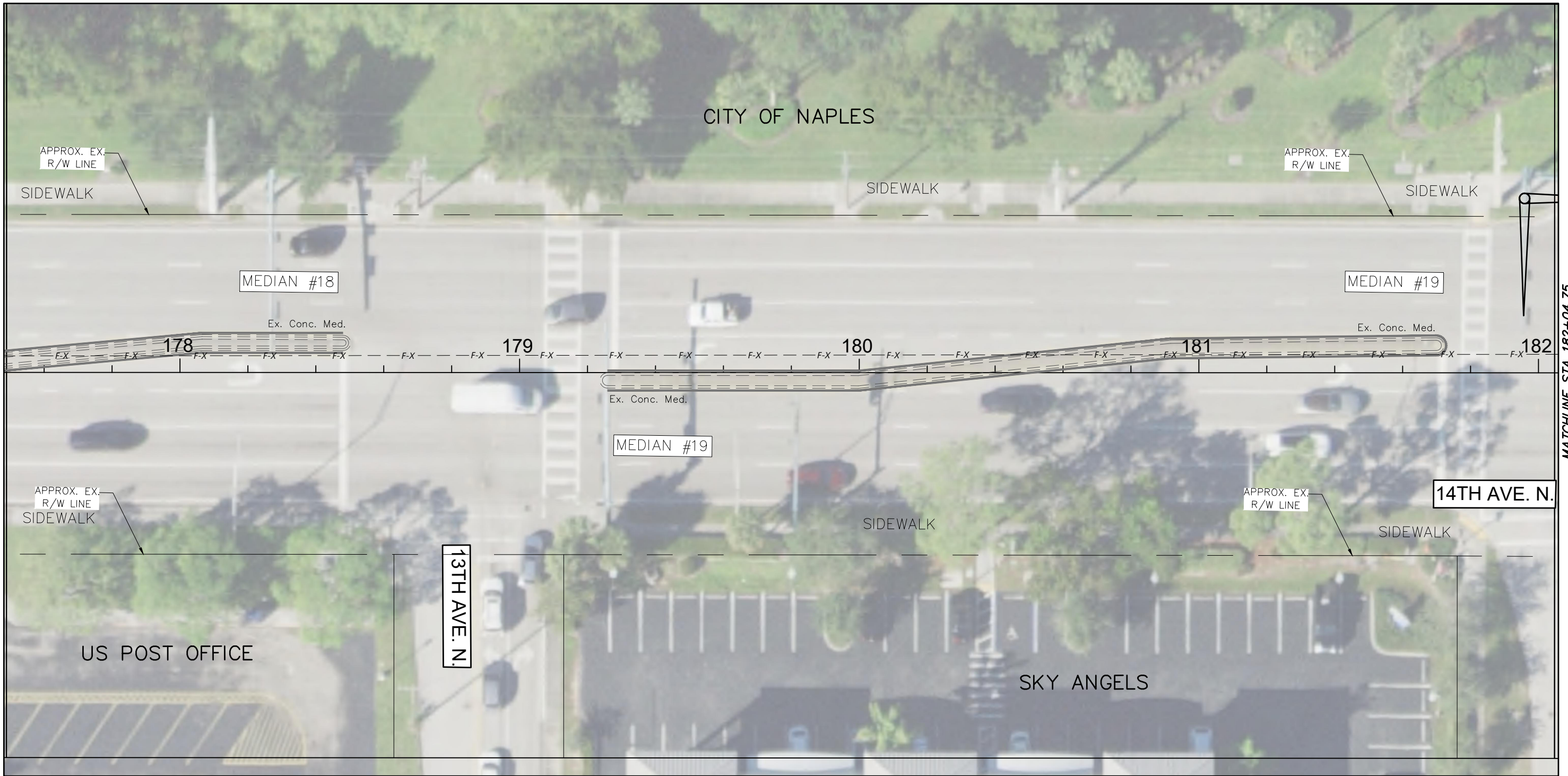
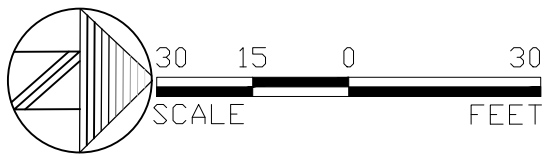
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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
SITE PREPARATION (05)

SHEET NO.
LD-48



NO WORK THIS SHEET FOR REFERENCE ONLY

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

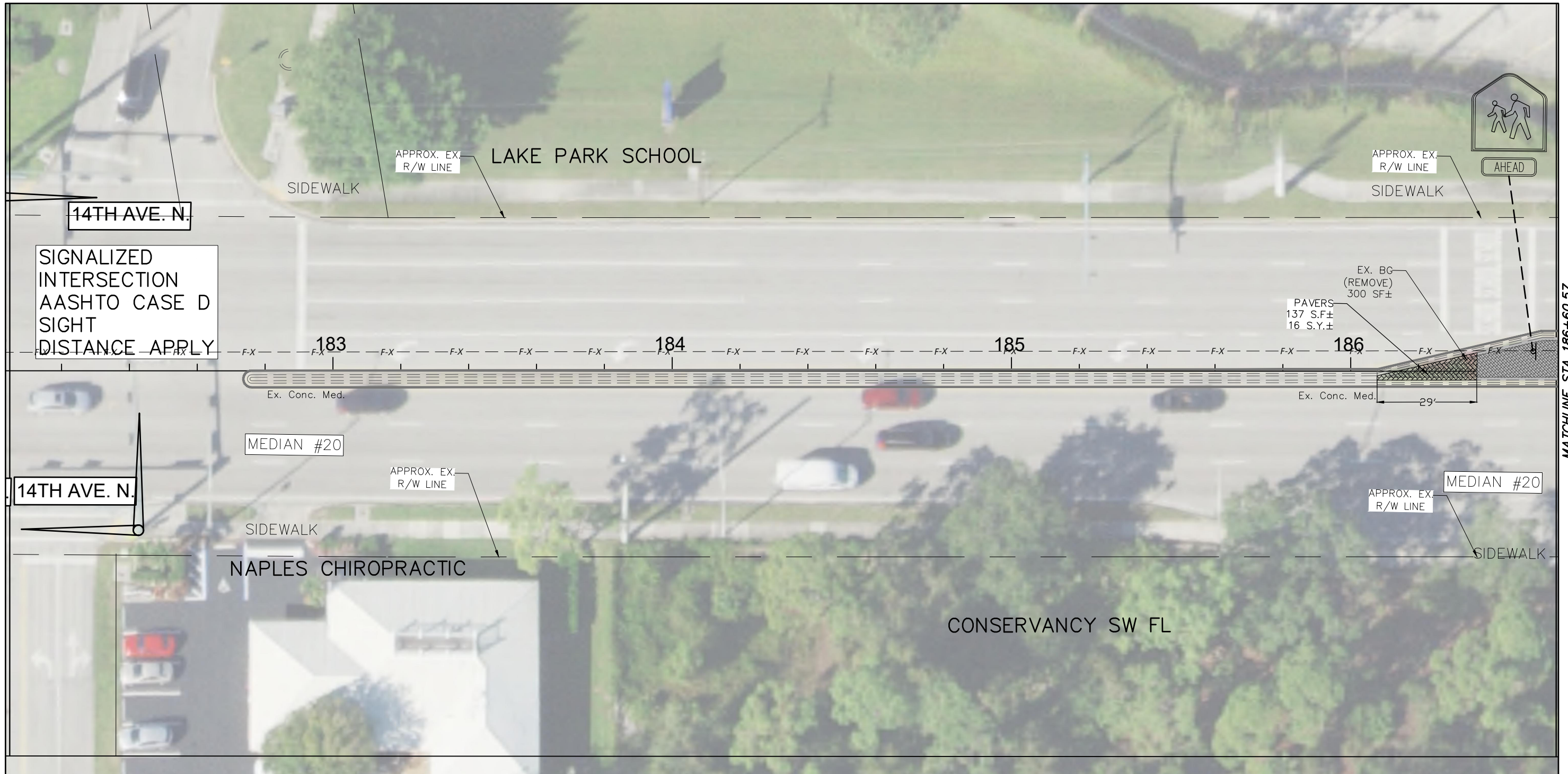
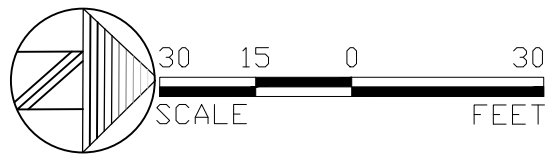
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LANDSCAPE PLAN SITE PREPARATION (06)
LD-49

SHEET NO.
LD-49

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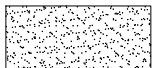







MATCHLINE STA 182+04.75

MATCHLINE STA 186+60.57

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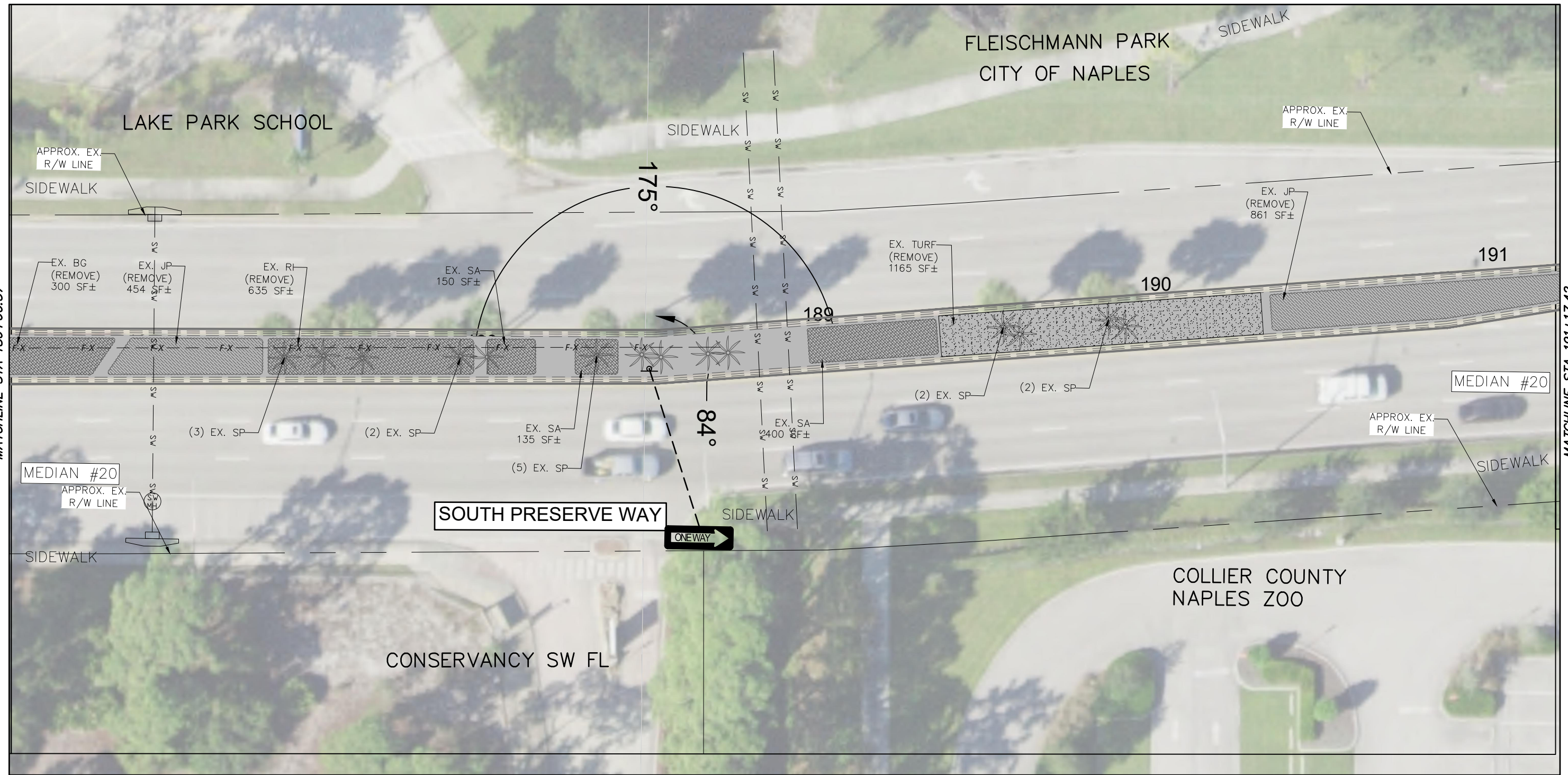
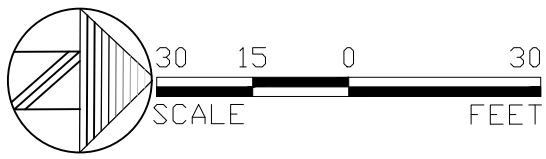
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CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
SITE PREPARATION (07)

SHEET NO.
LD-50



SOIL PREPARATION LEGEND

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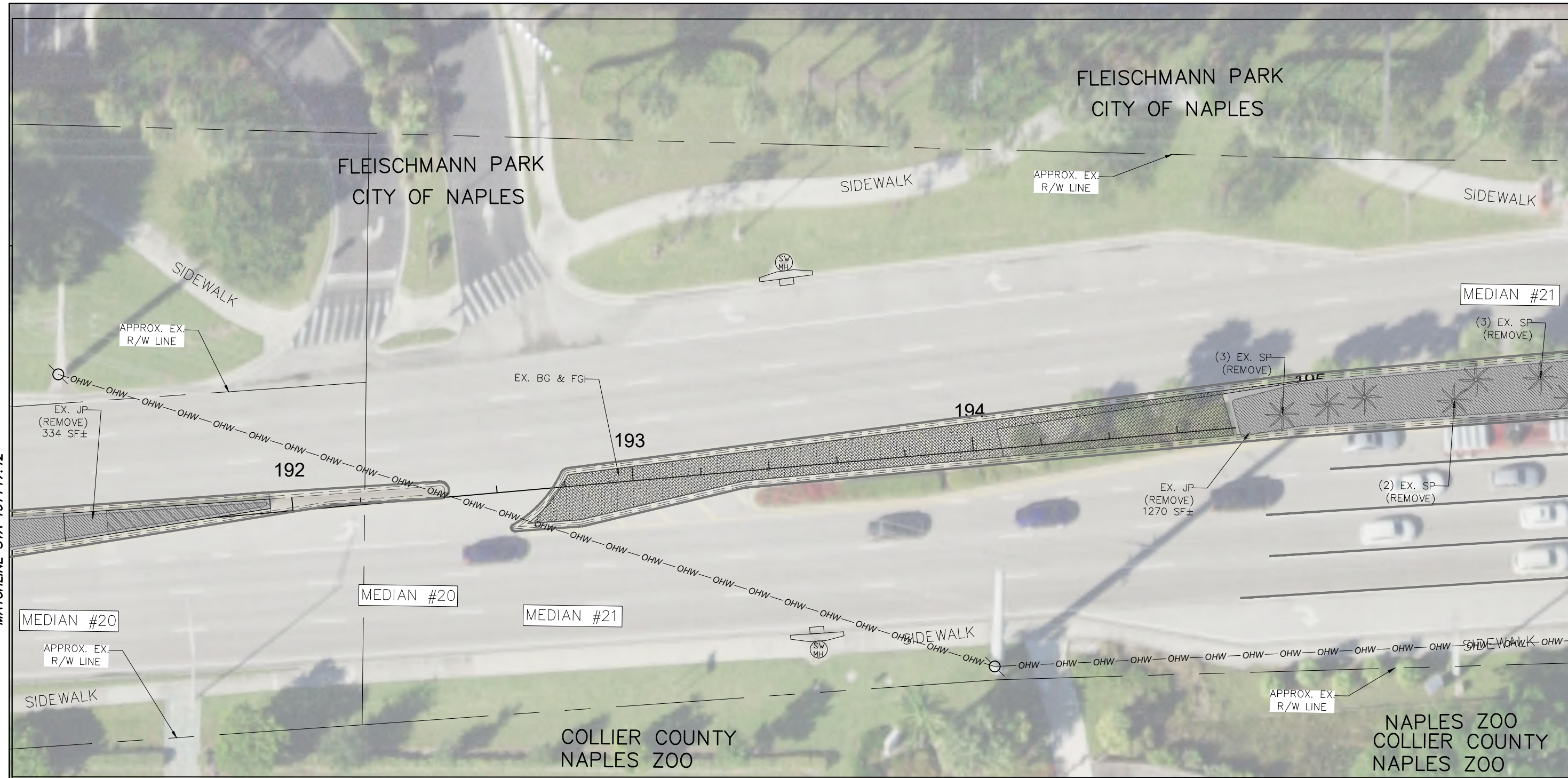
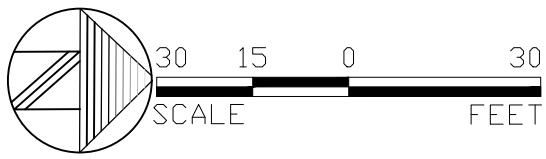
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ROAD NO.	COUNTY	PROJECT ID
CR851	COLLIER	20-02-09-13-20F32-PH2

**LANDSCAPE PLAN
SITE PREPARATION (08)**

SHEET NO.
LD-51

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MATCHLINE STA 191+17.42

MATCHLINE STA 195+75.03

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CR851	COLLIER	20-02-09-13-20F32-PH2

LANDSCAPE PLAN
SITE PREPARATION (09)

SHEET NO.
LD-52

SITE PREPARATION TABULATION OF QUANTITIES


BID ITEM NO.	PAY ITEM NO.	DESCRIPTION (ENHANCEMENT TYPE; REMOVAL DEPTH; SOIL DEPTH; AMENDMENT ADDED; SCARIFICATION DEPTH; UNIT)	MAX. MAINT. SIZE	REMARKS	UNIT	MEDIAN NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	
						M-14		M-15		M-16		M-20		M-21		M-22					
						SHEET NUMBERS												PLAN	FINAL	PLAN	FINAL
						LD-44,45 & 46		LD-46 & 47		LD-47 & 48		LD-50,51 & 52		LD-52 & 53		LD-53,54 & 55					
PLAN		FINAL		PLAN		FINAL		PLAN		FINAL		PLAN		FINAL		PLAN	FINAL	PLAN	FINAL		
		SOIL ENHANCEMENT																			
1	LSR-1	SOIL REPLACEMENT; REMOVE 4"- 24", EXISTING SOIL			CY	346		170		64		446		97		448		1571			
2	LSR-2 *	SOIL REPLACEMENT; ADD 2"- 18" SOIL , BACKFILL FOR PLANT REMOVAL HOLES AND LEVELING PROFILE			CY	217		107		40		279		61		280		984			
3	SSI-1	SOIL STRUCTURE IMPROVEMENT; SCARIFY/LOOSEN 6"-8" DEPTH, BLEND EXISTING AND NEW BACKFILL SOIL.			SY	465		229		86		598		130		602		2110			
		ARCHITECTURAL PAVERS																			
4	526-1-2 *	ARCHITECTURAL PAVERS (SIDEWALK)			SY	91.6		49.0		99.0		16.0		18.0		9.0		282.6			
5	350-3-1 *	PLAIN CEMENT CONCRETE PAVEMENT; FDOT CLASS I CONCRETE AS PAVER BASE			SY	91.6		49.0		99.0		16.0		18.0		9.0		282.6			
6	120-1	REGULAR SOIL EXCAVATION (14"+/- AVG. DEPTH)			CY	45.0		24.0		48.0		8.0		9.0		5.0		139			

Landscape Soil Key:

- Soil Structure Improvements - Mechanically loosen and mix existing soils to a depth of 8 inches. Ensure consistent mixing throughout all areas to provide a uniform soil structure.
- Soil Structure Improvements - Mechanically scarify to loosen existing subsoil to a depth of 6 to 8 inches.
- Soil Replacement - Remove existing material to the depths specified. Backfill with specified soil.

* - INDENTIFIES ITEMS NORMALLY REQUIRING SHOP DRAWINGS, PHOTOS OR PLANS. CONTRACTOR SHALL DETERMINE OTHER ITEMS THAT REQUIRE SHOP DRAWINGS FOR SUBMITTALS.

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

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	 Landscape Architecture DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING 5079 Tamiami Trail East * Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098	CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT			LANDSCAPE PLAN SITE PREPARATION TABULATION OF QUANTITIES				SHEET NO.
							ROAD NO.	COUNTY	PROJECT ID					LD-56
						CR851	COLLIER	20-02-09-13-20F32-PH2						