

9/13/2012

PAY	PAY				INSTALLED	MAXIMUM							SHEET	NUMBERS	
ITEM NO.	SIZE	SYM	BOTANICAL NAME	COMMON NAME	SIZE	MAINTAINED SIZE	SPACING	REMARKS	UNIT	LD-II	FINAL	LD-12	FINAL	LD-13	F
101-1: MOBILI	ZATION										TIMAL				+
101-1			Mobilization						LS	5					
102-1: MAINT	ENANCE O	F TRAF	FIC												
102-1			Maintenance of Trafic						LS	;					
107 - 1 LITTER	REMOVAL	AND D	ISPOSAL												
107 - 1			Litter Removal and Disposal						AC	: 0.11		0.22		0.16	
107-2 MOWIN	<u>;</u>														
107-2			Mowing						A(<u> </u>		0.22		0.16	_
110-1-1: CLEA	RING AND	<i>GRUBB</i> T												<u> </u>	
110-1-1 120-6: EMBA			Clearing and grubbing							, 					
120-6. LMBA			Embankment						C1	, 18		23		25	-
285-70 OPT	ONAL RASI	 - (lime							C/	10		25		- 25	-
285-70			Limerock						S	,				+	
522-2 CONC	I RETE SIDE	WA/K.													
522-2			New concrete						S	,					
	TERNED .	ι / τεχτ	URED PAVEMENT (CONCRETE	·)										-	+
523-1-2			Pattern and color						S	,					-
523-1-2			Overlay Treatment						S	76				-	-
526-1-1 PAV	ERS, ARCH	ITECTU	IRAL (ROADWAY)												1
526-1-1			Concrete Pavers						S	' 127				55	1
570-1-2 PE	RFORMANC	E TUR	F (SOD)											-	
570-1-2		SOD	Stenotaphrum secundatum	St. Augustine Sod	Solid			Stag.Joints, Rolled	SI	′ <u>3</u>		601		480	
580-1-1 LAND	SCAPE CO	MPLETE	(SMALL PLANTS)												
580-1-1	SMALL	CHR	Chrysobalanus icaco	Horizontal Cocoplum	18"x24"	* /8"	24" O.C.	. 3 GAL. Bush Form	EA	. 210					
580-1-1	SMALL	JUN	Juniperus chinensis'Parsoni	i' Parsons Juniper	12" x 18"	* 18"	24"' 00	C 3 Gal.	EA	. 90				45	
580-1-1	SMALL	IVS	llex vomitoria 'Stokes Dwar	f Stokes Dwarf Yaupon	10"x10"	* 18"	24"' 00	3 Gal.	EA	. 145				70	
580-1-1	SMALL	FGI	Ficus microcarpa 'Green Isl	and' Green Island Ficus	18"x18"	Natural Size	24" 0.C.	. 3 Gal.	EA	. 30		95		5	
580-1-1	SMALL	ZAP	Zamia pumila	Coontle	24"x24"	Natural Size	24" 0.C.	. 3 Gal.	EA			65		65	
580-1-1			Additional Mulch	3' Mulch area around Saba	IPalm Bosque				SF	- 25		131		56	
	1	1	LANDSCAPE COMPLETE (SMA	LL PLANTS)											
580-1-1A	SMALL		Serenoa repens	Saw Palmetto	12"x12"	Natural Size	36" 0.C.	. 3 Gal.	EA					<u> </u>	
	1	1	TE (LARGE PLANTS)												
580-1-2	LARGE	BN	Bismarckia nobilis 'Silver'	Bismarck Palm	18'-20'oah	Natural Size		n Florida Fancy	E					3	
580-1-2	LARGE	L/	Lagerstroemiaindica'Muskoge		I4'htx7'spr	Natural Size		h 4'CT Multi	E,			22			
580-1-2	LARGE	QV	Quercus virginiana	Live Oak	28'-30'Ht	Natural Size		9"Cal,15' spr., 5' C				8		4	
580-1-2	LARGE	SP	Sabal palmetto	Sabal Palm	14'-20'oah	Natural Size		Straight with Boots		-		14		14	
580-1-2 580-1-2	LARGE LARGE	PEI	Ptychosperma elegans Ptychosperma elegans	Solitaire Palm Solitaire Palm	16'-18'oah 16'-18'oah	Natural Size Natural Size		n Single, FG n Triple, FG	E,						
			LANDSCAPE COMPLETE (LAF		18 -18 0011	Waturut Size	AS SHOWN			• 				+	
580-1-2A	LARGE	SPI	Sabal palmetto	Sabal Palm	14'-20'oah	Natural Size	10' 0 0	. Straight with Boots	5 E,	1					-
585-1 MAINT		5/7			14 20 001		10 0.0.		,	,					
585-1			Landscape and Irrigation Ma	intenance					LS	;					-
585-2 MAIN	ENANCE	I													+
585-2	1		Landscape and Irrigation Ma	nintenance					LS	;					+
590-70 IRRI	GATION SY	STEM (-	1
590-70			Irrigation System Complete						LS	5				-	1
NOTE: MAX LEGEND: min mi Gal Ga DBH - Di ht he	nîmum Ilon ameter Br		CT – Clear 1 FG – Field G Height Multi. – Multi-t oah – Over Al	rown LS – Lump Sum runk Stag – Stagger I Height SF – Square Fe	SY B&B	MAXIMUM MAINT - Square Ya - Ball and - Each	nr d	O BE NATURAL.							
			REVISIO				11.								
DATE		DESCF	RIPTION D	ATE DESCRIPTION					CITY OF	r COCO	ONUT	CREE	K	TA.	DТ
						MI		LEGG	ROAD NO.	COUNTY	FII	NANCIAL PRO	JECT ID	I AL	DU
							Andrews Way · Fort Laude -7000 · Fax: 954-436-8664	rdale, Florida · 33309-2364	814	BROWARD		26010-1-:	58-01		
				1				rd: Brian P. Shore I A-6666770	710	DITOWAIL	' '				

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PLANT SCHEDULE

LD-2

9/13/2012

PAY	PAY				INSTALLED	MAXIMUM							SHEET	NUMBERS	
ITEM NO.	SIZE	SYM	BOTANICAL NAME	COMMON NAME	SIZE	MAINTAINED SIZE	SPACING	REMARKS	UNIT						
IOI-I: MOBILIZA	TION									LD-14	FINAL	LD-15	FINAL	LD-16	-
10-1			Mobilization						LS						+
102-1: MAINTEN	ANCE OF TR	AFFIC													-
102-1			Maintenance of Trafic						LS						
107-1 LITTER F	EMOVAL AND	DISPOS	AL												
107-1			Litter Removal and Disposal						AC	0.17		0./3		0.02	_
107-2 MOWING	_													<u> </u>	
107-2			Mowing						AC	0.17		0./3		0.02	_
110-1-1: CLEARI	NG AND GRUE	BING	Clearing and arything						15						-
110-1-1 120-6: EMBANK			Clearing and grubbing						LS						
120-6. LMDANK			Embankment						CY	82		"		5	
285-70 LIME I	ROCK BASE									02					-
285-70			Limerock						SY					14	+
522-2 6" SIDE	WALK														-
522-2			New concrete						SY					14	+
523-1-2 PATT	ERN / TEXT	URED P	AVEMENT												
523-1-2			Pattern and color						SY					14	1
523-1-2			Overlay Treatment						SY			40		128	
526-1-1 PAVER	S, ARCHITEC	TURAL (I	ROADWAY)												
526-1-1			Concrete Pavers						SY	35					
570-1-2 PER	FORMANCE T	JRF (SO	נס												
570-1-2			Stenotaphrum secundatum	St. Augustine Sod	Solid			Stag.Joints, Rolled	SY	505		378			
580-1-1 SHRUB	1	r	1											ļ	
580-1-1	SMALL		Chrysobalanus icaco	Horizontal Cocoplum	18"x24"	* 18"		3 GAL. Bush Form	EA.					<u> </u>	
580-1-1	SMALL	JUN	Juniperus chinensis'Parsonii'	Parsons Juniper	12" x 18"	* 18"	24"' OC		EA.	45		30		20	_
580-1-1 580-1-1	SMALL SMALL	IVS FGI	llex vomitoria 'Stokes Dwarf Ficus microcarpa 'Green Island'	Stokes Dwarf Yaupon Green Island Ficus	10"x10" 18"x18"	* 18" Natural Size	24"' OC 24" O.C.		EA. EA.	85		103 65		60	-
580-1-1	SMALL	ZAP	Zamia pumila	Coontie	24"x24"	Natural Size	24 0.C. 24" 0.C.		EA.	65		65		├───	+
580-1-1	JMALL	24	Additional Mulch	3' Mulch area around Sabal Pali		Natal at 5120	24 0.0.	5 007.	SF	59		53		53	
	AITERNATE	- IAND	SCAPE COMPLETE (SMALL PLANTS)							55		33			-
580-1-1A	SMALL	r	Serenoa repens	Saw Palmetto	12"x12"	Natural Size	36" O.C.	3 Gal.	EA.			154			-
580-1-2 TREE															+
580-1-2	LARGE	BN	Bismarckia nobilis 'Silver'	Bismarck Palm	18'-20'oah	Natural Size	As Shown	Florida Fancy	EA	4					-
580-1-2	LARGE	LI	Lagerstroemiaindica'Muskogee'	Crepe Myrtle	l4'htx7'spr	Natural Size	As Shown	4'CT Multi	EA			14			
580-1-2	LARGE	QV	Quercus virginiana	Live Oak	28'-30'Ht	Natural Size	As Shown	9"Cal,15' spr., 5' CT	EA	4		4			
580-1-2	LARGE	SP	Sabal palmetto	Sabal Palm	14'−20'oah	Natural Size	As Shown	Straight with Boots	EA	14					
580-1-2	LARGE	PEI	Ptychosperma elegans	Solitaire Palm	16'−18'oah	Natural Size	As Shown	Single, FG	EA			5			
580-1-2	LARGE		Ptychosperma elegans	Solitaire Palm	16'−18'oah	Natural Size	As Shown	Triple, FG	EA						
580-1-2A ADD			DSCAPE COMPLETE (LARGE PLANTS)												_
580-1-2A	LARGE	SPI	Sabal palmetto	Sabal Palm	14'-20'oah	Natural Size	10' 0.C.	Straight with Boots	EA			35			-
585-1 MAINTEN	ANCE													 	-
585-1 585 2 MAINTE			Landscape and Irrigation Maintenance						LS						-
585-2 MAINTE			Landscape and Irrigation Maintenance						LS						+
590-70 IRRIGA	TION SYSTEM	COMPL													+
590-70			Irrigation System Complete						LS					<u> </u>	+
														<u> </u>	
NOTE: * MAX	IMUM MAIN	TAINED	SIZE WITHIN INDEX 546 SIGHT	LINE TO BE 18", NON SIG	HT LINE AREAS	MAXIMUM MAINTA	NINED SIZE TO	BE NATURAL.							
			REVISIONS												
DATE		DESCF	RIPTION DATE	DESCRIPTION	V				CITY OF	COCO	NUT	CREE	K	PT A	יירע
								LEGG dale, Florida · 33309-2364	ROAD NO.	COUNTY		ANCIAL PROJ		TAI	вl

Cert. of Auth.: LC0000337 · L.A. of Record: Brian R. Shore LA-6666770	011	nperez		9/13/2012
954-436-7000 · Fax: 954-436-8664 · www.millerlegg.com	8/4	BROWARD	426011-1-58-01	

			TOT TH SHE	IS	GRA TOT	
VAL	LD-17	FINAL	PLAN	FINAL	PLAN	FINAL
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	0.13		0.45		0.94	
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	3/		129		/95	
	33		47		47	
	33		47		47	
	33		47		47	
	<i>2</i> 95		463		539	
	81		116		298	
	290		1173		2258	
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			95		230	
	102		350 65		565 195	
			65		/95 /95	
			165		377	
			154		/54	
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ULATION OF QUANTITIES PLANT SCHEDULE

SHEET NO: LD-3

PROJECT GENERAL NOTES

1. The Contractor shall visit the site prior to placing his bid to assess the amount of planting required for the general conditions as they relate to traffic control, access to the site and other challenges of the Project.

2. All base survey sketch information shown per FDOT Project FM# 423002-1-52 is the best available information available at the time of preparation of plans. The Contractor shall notify the City of any discrepencies in the information provided. Base map is a sketch of corridor and data is not geographically located within any survey datums. Features such as right of way lines, and utilities, have been compiled and Palms. incorporated from as-built data obtained from various sources. Geometric survey of median has been conducted to aide contractor in construction of hardscape features. Contractor to use back of curb dimensions as reference. Baseline shown on plans is provided for reference only and is an assumed centerline of corridor.

3. All Public land corners and monuments within the limits of construction are to be protected by Contractor as follows: Corners and monuments in conflict with the work and in danger of being damaged, destroyed or covered shall be properly referenced by a registered-land surveyor in accordance with the minimum technical standards of the Florida Board of Professional Land Surveyor prior to beginning work at that site. The Contractor shall retain the land surveyor to reference, and restore upon completion of the work, all such corners and monuments and shall furnish to Florida Department of Transportation (FDOT) a signed and sealed copy of the Land Surveyor's reference drawing.

4. The Contractor shall comply with all state codes and ordinances. Contractor shall be responsible for obtaining all applicable permits unless otherwise directed by the City.

6. The Contractor shall submit a an inventory list of the existing signs including photos to the City prior to mobilization. Any existing signs damaged by the contractor during construction, shall be replaced by the Contractor at no additional cost to the City or FDOT.

7. Contractor is to notify the City/FDOT, who shall notify the State Permits Office at 850-488-4961 at least 7 calendar days in advance of a MOT Set-up that will impact Overweight/Overheight Vehicles.

8. SOD:

a). Provide specified species of sod as shown on plans. All existing turf areas within the medians shall be removed. Replace sod within the medians, outside of proposed planting beds, as indicated on plans. Contractor shall include a 6" to 12" layer or veneer of suitable planting soil in the areas within the median that are to be sodded. The soil material and placement of the soil shall be part of the pay item for the soid. acceptance. Should any new sod be damaged during the course of construction, the Contractor shall be responsible to re-sod the damaged areas and restore the proposed grade. Cost of replacement material shall be included 4. FERTILIZATION: Contractor shall provide at a minimum, one (1) application at time of planting. A schedule within Mobilization and at the Contractor's expense.

b). All existing areas within swale areas shall remain unless otherwise specified. The Contractor shall be responsible to re-sod any areas damaged by construction activities. Restoration sod (re-sodding damaged areas) shall match the species of the existing/surrounding sod.

9. Contractor shall remove and dispose of existing sod and surplus materials off-site or as directed by the City. All existing soil within the medians that is removed for hardscape treatments or removed for tree installation shall be re-used in the formation of the proposed "wave" land-forms.

10. CLEARING and GRUBBING: includes removal of existing sod within medians and areas where proposed plant material is specified within the right-of-way unless otherwise noted.

11. IRRIGATION: includes protection of existing irrigation systems within the right of way. Contractor shall be responsible for repair of damaged systems.

12. SIGHT VISIBILITY CLEAR ZONES: on the main travel/through lanes for this project are based on a design submit a watering schedule based upon the following recommended rates: speed of 45 mph.

13. The Contractor shall furnish to the City a unit price breakdown for all materials. The City may, at its discretion, add or delete from the materials utilizing the unit price breakdown submitted. This unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting.

days during construction per Standard Specification Section 107.

EMBANKMENT GENERAL NOTES:

I. EARTH WORK: Includes acctivities for excavation of soil and transporting soil to locations identified as wave #1-5, construct and sculpt features shown on Landscape Details. No soil to be disposed of off site. Any deficiencies in cut/fill volumes, contractor to provide additional fill at no cost to the city.

BID ALTERNATE: Hand water plant material from time of planting through establishment period. Installatall and maintain plant material per specifications, landscape plans and notes.

UTILITIES GENERAL NOTES:

1. Two full business days prior to digging, the Contractor shall call Sunshine State One Call of Florida, telephone number 811, and the utility owner and request utility locations. A Contractor's representative must be present when utility companies locate their facilities.

2. All existing utilities are to remain.

3. Contractor shall explore by hand digging and expose all utilities located within 5' of all proposed trees and

GOVERNING STANDARDS:

Florida Department of Transportation (FDOT) DESIGN STANDARDS and SPECIFICATIONS: Contractor to refer to the following:

I. FDOT Standard Specifications for Road and Bridge construction 2010

2. FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System 2010 (English Units)

3.FDOT 2010 Interim Design Standard (01/01/11)

LANDSCAPE GENERAL NOTES:

I. LANDSCAPE: Installation of plant material shall be performed by a Contractor certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning activities of trees and/or palms shall be supervised by a Certified Arborist, as certified by The International Society of Arboriculture (ISA) and licensed in Broward County.

a). For Trees and Shrubs and Groundcover beds: Provide a consistent mix consisting of

- 50% Sand / 40% Muck / 10% Peat for the planting soil mix.
- b). For Palms: Provide a consistent mix consisting of 70% Sand / 30% Muck for the planting soil mix.
- c). For Sod area: Provide a 6" to 12" veneer / layer of soil consisting of

70% Sand / 30% Peat mix.

3. MULCH: A consistent 3" layer of shreded Grade A mulch or better shall be spread over all planting beds. All mulch beds shall extend to bedline shown on plans. Contractor to submitt sample of mulch to City for

of fertilization based upon the Manufacturer's recommended rates shall be submitted by the Contractor at the pre-construction meeting.

AT TIME OF PLANTING: Fertilize with planting tablets 20-10-5 plus minors. Do not place tablets in bottom of hole; tablet shall be 1/3 from the bottom of the rootball.

ESTABLISHMENT PERIOD OF PLANT MATERIAL: Fertilizer for dicot trees, shrubs and ground covers shall be of 6% nitrogen, 6% phosphorus and 6% potassium with minor elements composition analysis. Fertilizer for palms shall be "palm fertilizer" of 13% nitrogen, 3% phosphorous, and 13% of potassium composition analysis with minor elements. Contractor shall apply granular fertilizer at the manufacturer's recommended rates. Contractor reserves the right to modify N-P-K ratio and shall submit product data sheets for review and acceptance prior to any installation of plant material consistent with the above criteria's.

5. WATERING: At a minimum, the Contractor shall provide the following recommended watering schedule beginning immediately after installation of plant material. At the pre-construction meeting, the Contractor shall

All watering applications required during Plant Establishment Period and Warranty Period and it's source shall be included as part of the unit price for each plant material. Contractor shall adjust watering schedule during heavy rain season upon approval by Project Engineer.

6. WARRANTY: Install, establish and maintain landscaping as indicated in the contract documents. Take 14. LITTER REMOVAL AND MOWING: Perform litter removal weekly or as needed and mowing every 10-14 responsibility for the proper maintenance, survival and condition of all plants for a period of one year after final acceptance in accordance with FDOT Standard Specifications for Road and Bridge Construction Section 580.

> 7. REPLACEMENT MATERIAL: shall be subject to all the requirements of the FDOT Standard Specifications for Road and Bridge Construction Section 580.

8. MAINTENANCE CARE: Existing plants to remain within project limits are to be maintained during the construction period and until final project acceptance. Keep existing plants watered, fertilized, mulched, free of undesirable weeds, pruned, treated for pests and diseases as necessary to assure that the existing plants are maintained so that they are healthy and vigorous. Maintenance care to be included in 580-1-1 small plants and 580-1-2 large plants.

9. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.

102-1: MAINTENANCE OF TRAFFIC - Includes all the cost of all activities associated with but not limited to the maintenance /replacement of existing signs during construction, work zone signs, arrow panels, off-duty officer, barricades, dust control, and operations for maintaining traffic flow as per specifications. 107-1: LITTER REMOVAL AND DISPOSAL- Includes all activities associated with litter removal within proposed landscape areas as per specifications, landscape plans and notes. 107-2: MOWING - Includes all activities associated with mowing in medians within project limits as per specifications, landscape plans and notes.

plans and details.

(72) hours prior to use

erosion during construction.

PAY ITEM NOTES:

specifications, plans and details concrete as per specifications, plans and details. plans and details

(Stenotaphrum secundatum).

Installation 580-1-2: LANDSCAPE COMPLETE (LARGE PLANTS) - Includes all activities associated with installation and maintenance of landscape as per specifications, landscape plans and notes. 580-1-2A: ADD ALTERNATE - LANDSCAPE COMPLETE (LARGE PLANTS) - Upon agreement by City, Includes all activities associated with installation and maintenance of additional landscape as per specifications, landscape plans and notes in accordance with Standard Specification 580 Landscape Installation

as per specifications, landscape and irrigation plans and notes. as per specifications, landscape and irrigation plans and notes. as per specifications, irrigation plans and notes.



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			ISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CITY	OF COCON	TT CREEK	
						MILLER V LEGG				
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LAND
						5747 North Andrews Way · Fort Lauderdale, Florida · 33309-2364				
						954-436-7000 · Fax: 954-436-8664 · www.millerlegg.com	8/4	BROWARD	426010-1-58-01	
						Cert. of Auth.: LC0000337 · L.A. of Record: Brian R. Shore LA-6666770	014	BROWARD	426011-1-58-01	
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ENVIRONMENTAL GENERAL NOTES:

A. The Contractor shall review environmental requirements of any proposed staging areas with the City and submit to the City and submit to the FDOT District Environmental Permits Coordinator at least seventy-two

I. Contractor shall submit to City a Stormwater Prevention Pollution Protection Plans (S.W.P.P.P.) to City for review and submittal to appropriate agencies with copies to FDOT.

2. Any material to be stockpiled for periods greater than 24 hours shall be protected by appropriate erosion control devices. No material shall be stockpiled between silt fences and water bodies.

3. All excess material as designated by the City is to be disposed by the Contractor in areas provided by him within 72 hours of being deposited in the construction area and at the Contractor's expense.

4. The Contractor is responsible for keeping existing and new inlets clean of planting soil, debris, etc. during the construction at no additional cost to the City. Contractor shall submit plan for protection of inlets and /or

5. If necessary the Contractor shall use a street sweeper (using water) or other equipment capable of controlling and removing dirt or dust. Approval of the use of such equipment is contingent upon its demonstrated ability to do the work.

101-1: MOBILIZATION - Includes all the cost of all activities associated with prepatory work and operations in mobilizing for beginning work on the project as per specifications.

110-1-1: CLEARING AND GRUBBING - Includes all Clearing and Grubbing activities associated within proposed project limits as per specifications, landscape plans and notes.

120-6: EMBANKMENT - Includes all activities associated with constructing the sod wave as per specifications, landscape plans, details, landscape notes and Embankment notes.

285-701: OPTIONAL BASE (LIME ROCK) - Includes installation of base material as per specifications,

522-2: CONCRETE SIDEWALK, 6" THICK - Includes installation of concrete sidewalk as per

523-1-2: PATTERNED / TEXTURED PAVEMENT (CONCRETE) - Includes installation of patterned

526-1-2: PAVERS, ARCHITECTURAL (ROADWAY): Includes installation of pavers as per specifications,

570-1: PERFORMANCE TURF (SOD)- Includes installation and establishment of sod within project limits as outlined per specifications, general notes and plans. Sod to be St. Augustine Sod

580-1-1: LANDSCAPE COMPLETE (SMALL PLANTS) - Includes all activities associated with installation and maintenance of landscape as per specifications, landscape plans and notes. 580-1-1A: ADD ALTERNATE - LANDSCAPE COMPLETE (SMALL PLANTS) - Upon agreement by City,

Includes all activities associated with installation and maintenance of additional landscape as per specifications, landscape plans and notes in accordance with Standard Specification 580 Landscape

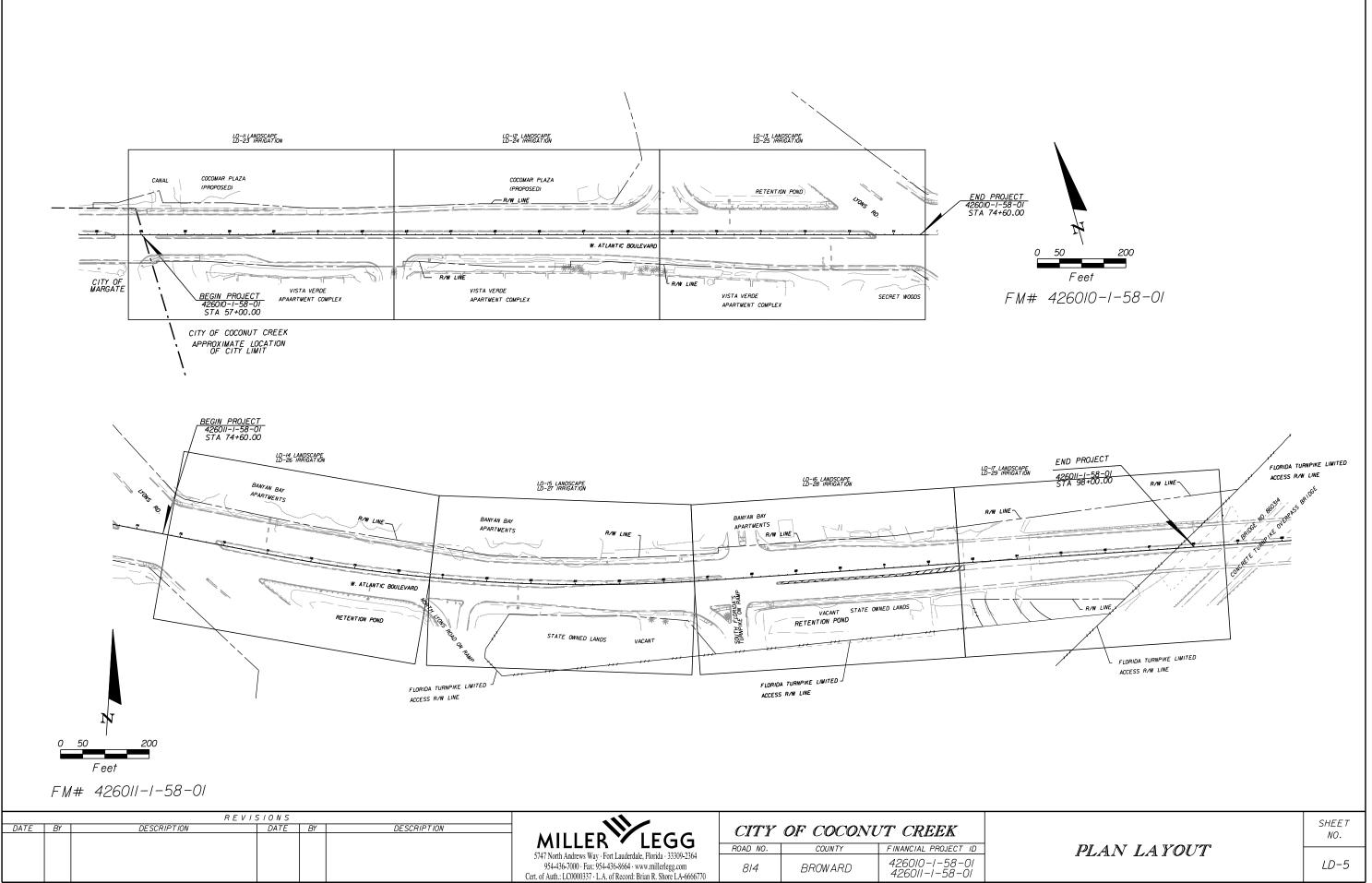
585-1 : MAINTENANCE: Includes all activities associated with maintenance of landscape and irrigation

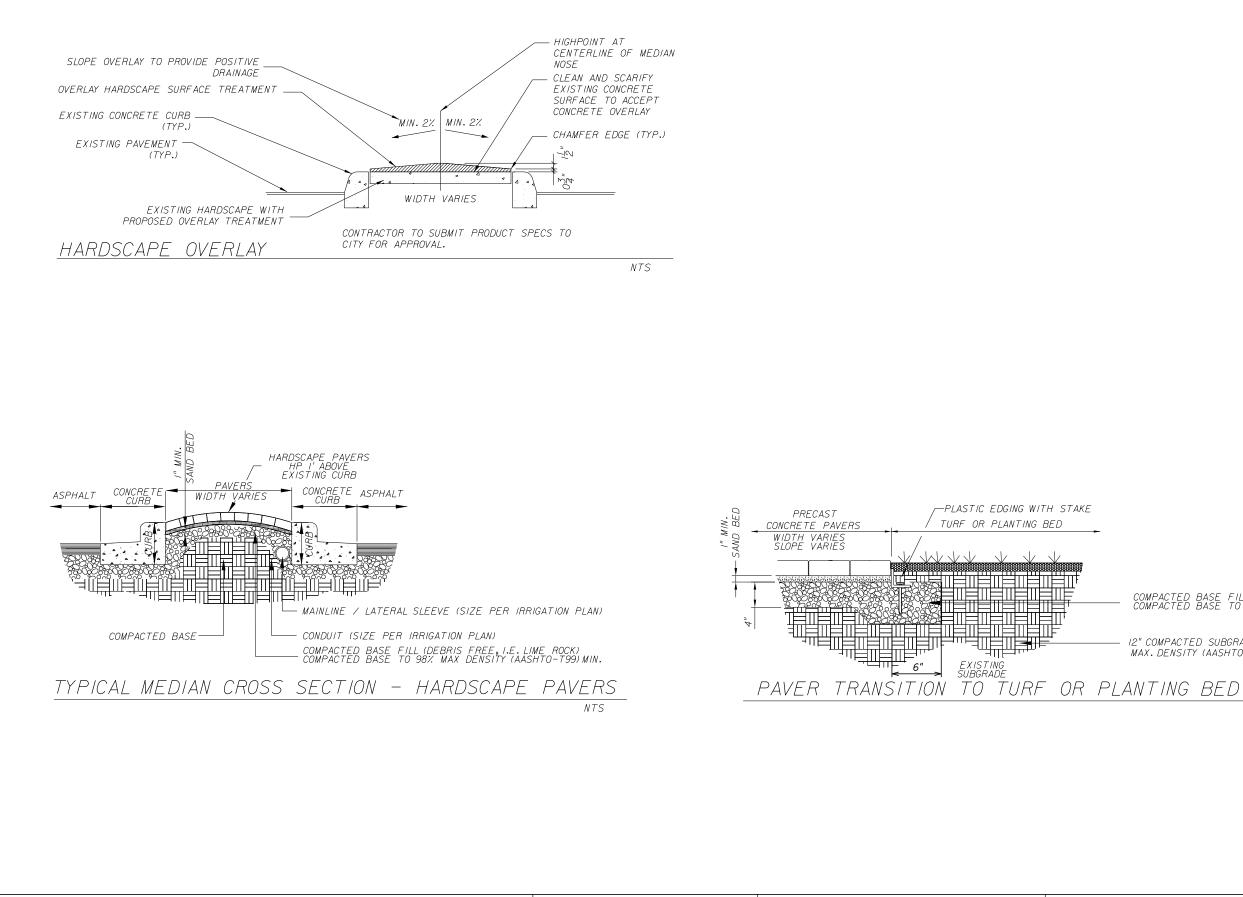
585-2: MAINTENANCE: Includes all activities associated with maintenance of landscape and irrigation

590-70: IRRIGATION - Includes all activities associated with installation and maintenance of irrigation

SCAPE GENERAL NOTES

SHEET NO.





		REVI	SIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CITY	OF COCON	UT CREEK	
						MILLEK 🖌 LEGG	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						5747 North Andrews Way · Fort Lauderdale, Florida · 33309-2364 954-436-7000 · Fax: 954-436-8664 · www.millerlegg.com	814	BROWARD	426010-1-58-01 426011-1-58-01	
						Cert of Auth : I C0000337, J. A. of Record: Brian P. Shore I A-6666770			1 426011-1-38-01	

COMPACTED BASE FILL (DEBRIS FREE, I.E. LIME ROCK) COMPACTED BASE TO 98% MAX DENSITY (AASHTO-T99) MIN.

12" COMPACTED SUBGRADE TO 98% MAX. DENSITY (AASHTO-T99) MIN.

NTS

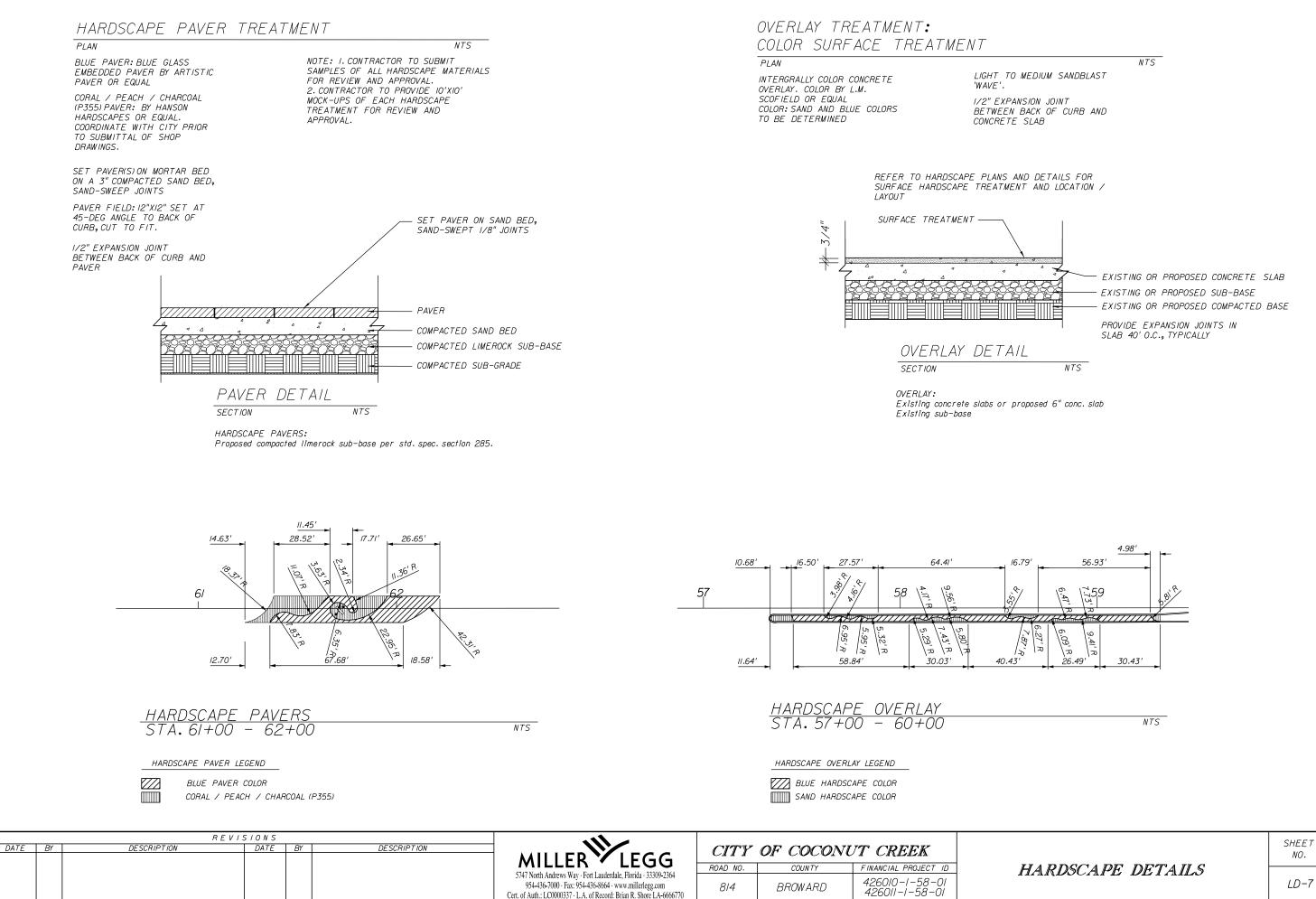
ARDSCAPE DETAILS

SHEET NO.

LD-6

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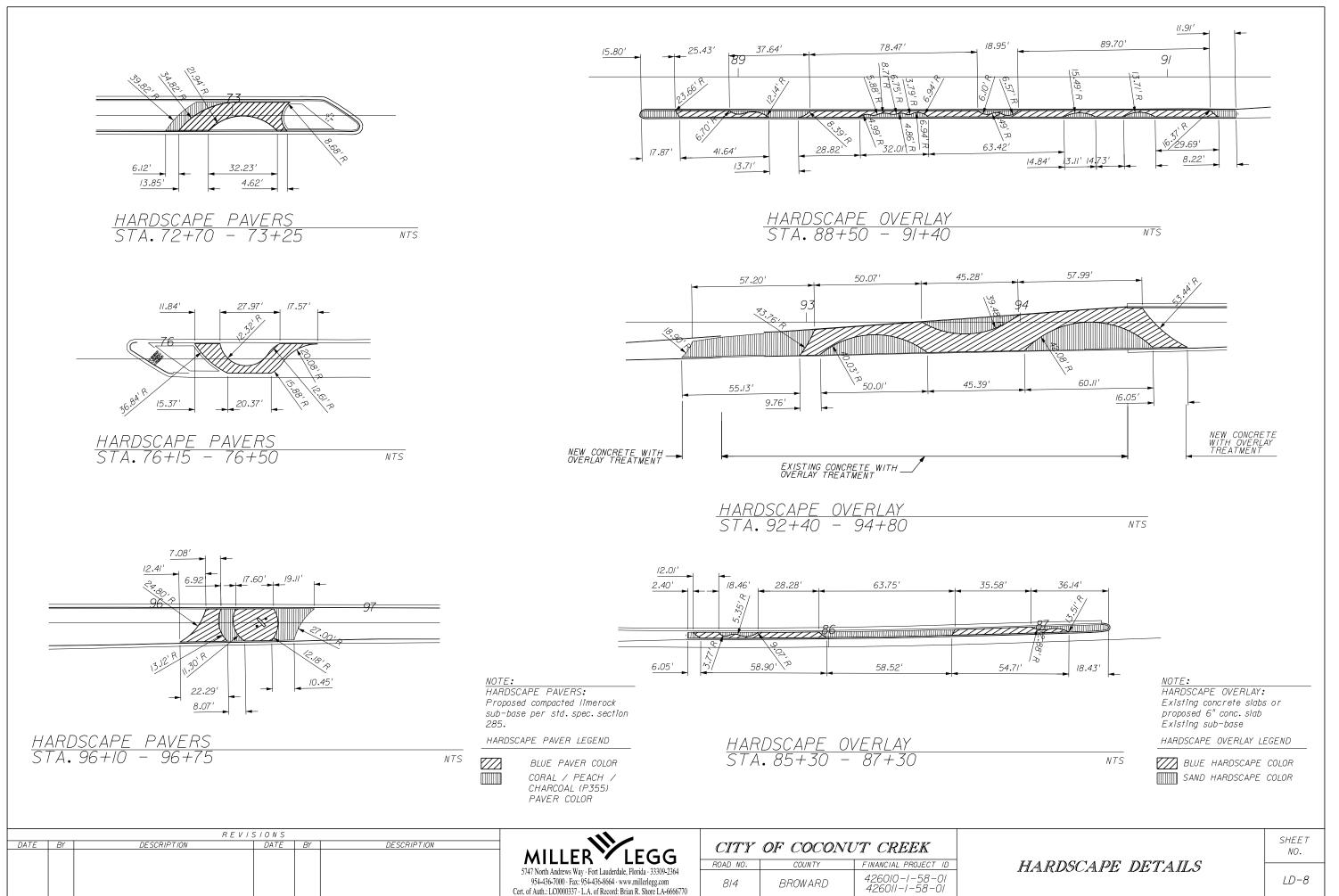


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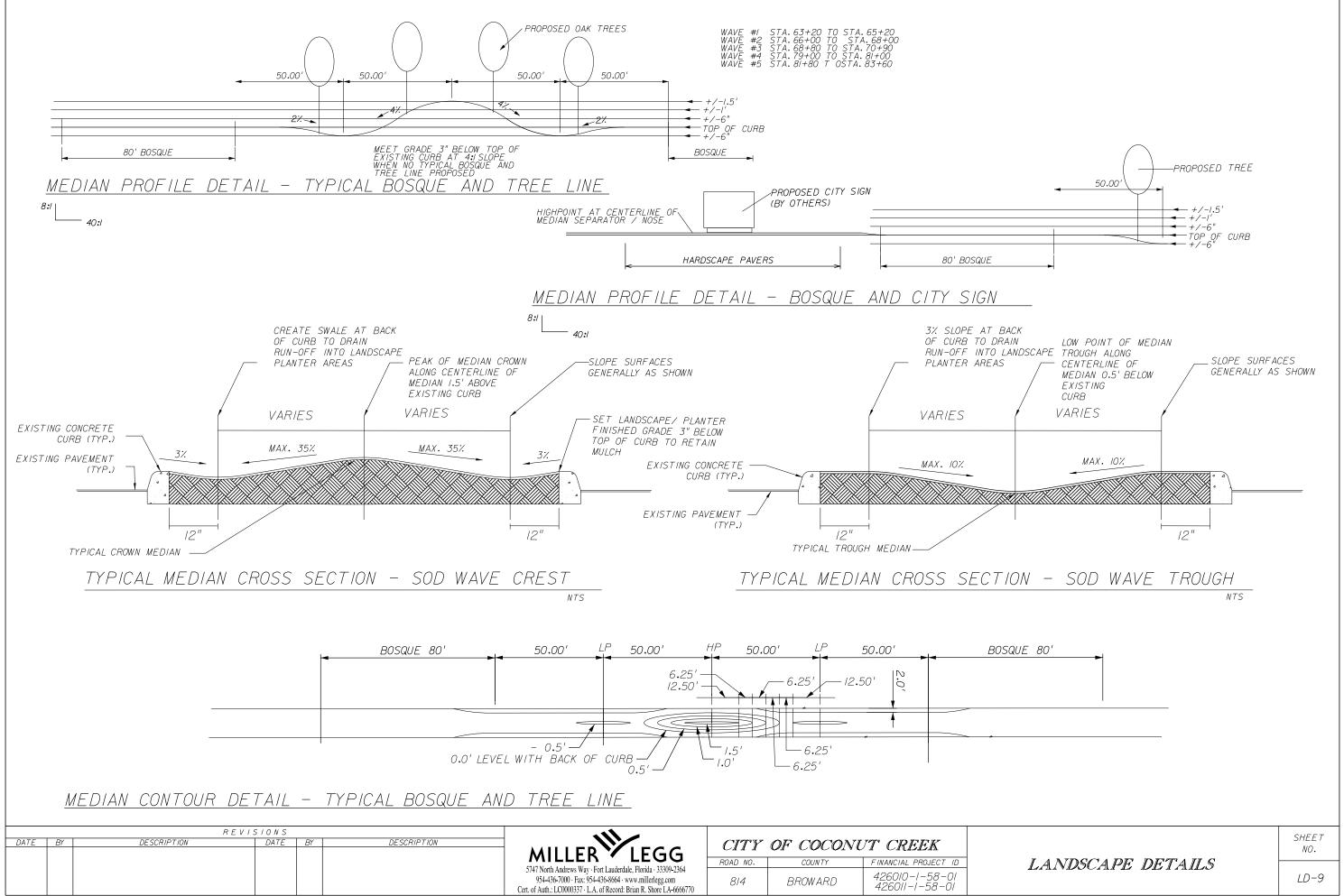
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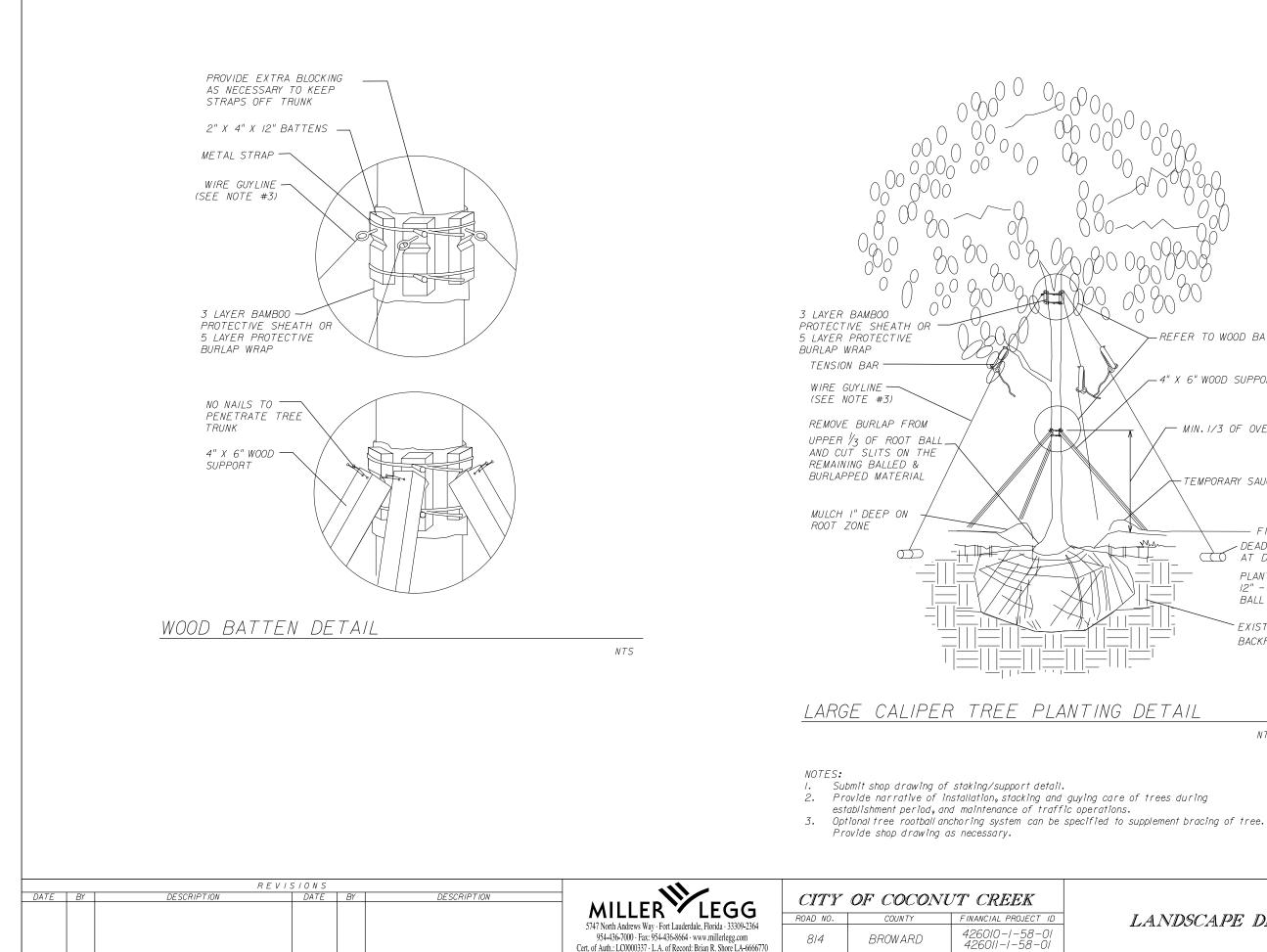


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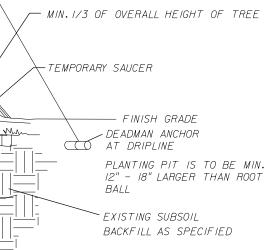


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REFER TO WOOD BATTEN DETAIL

4" X 6" WOOD SUPPORTS

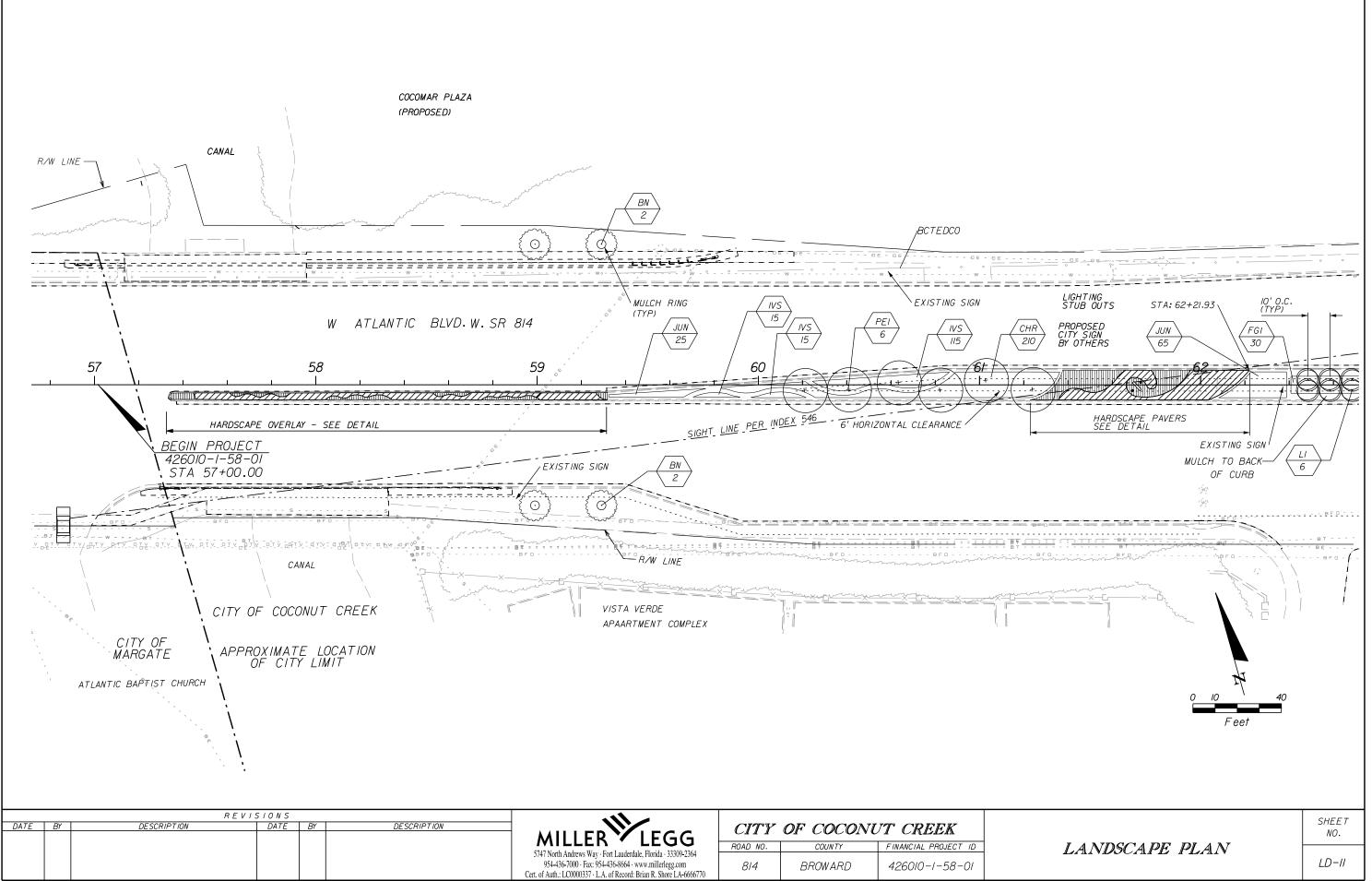


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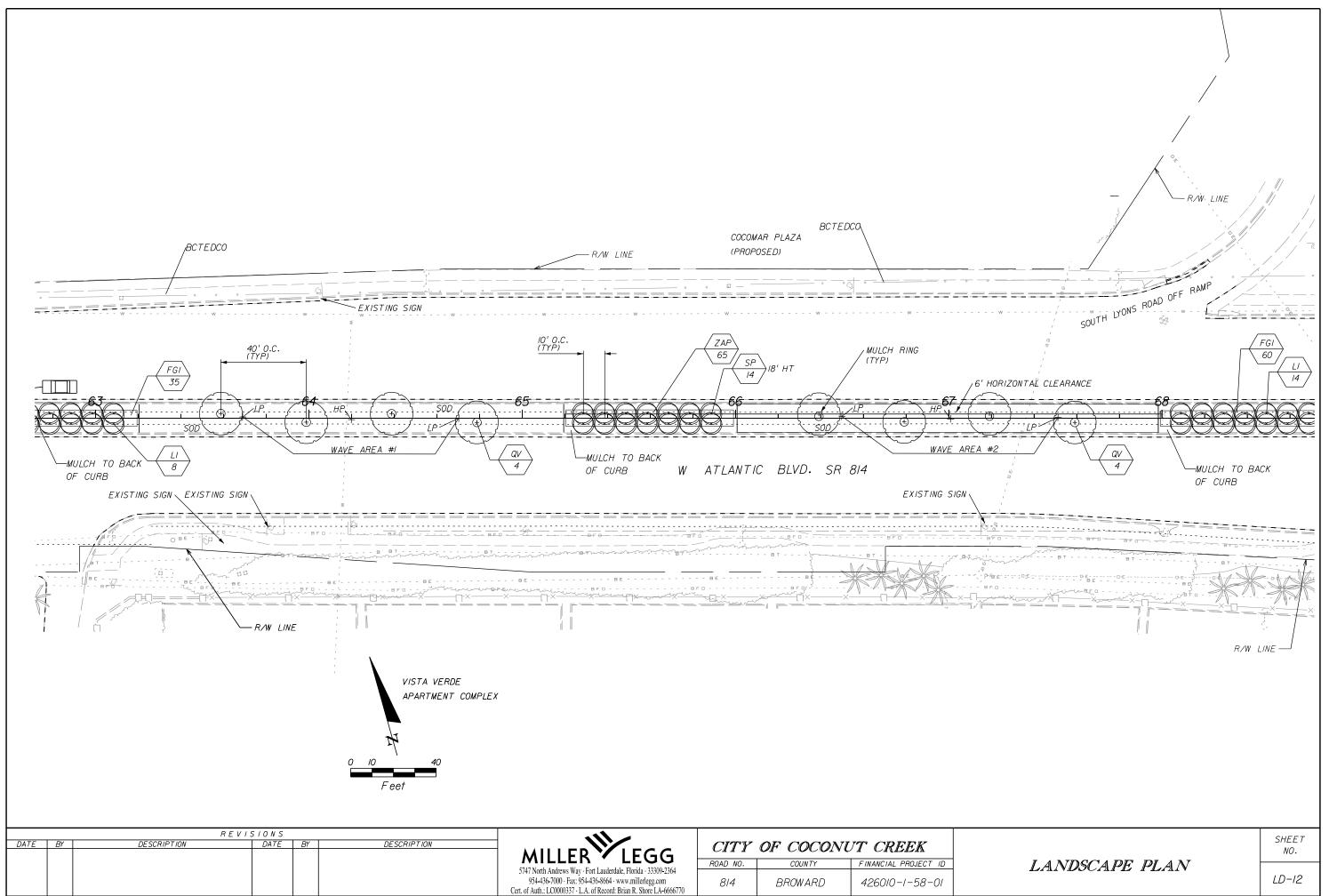
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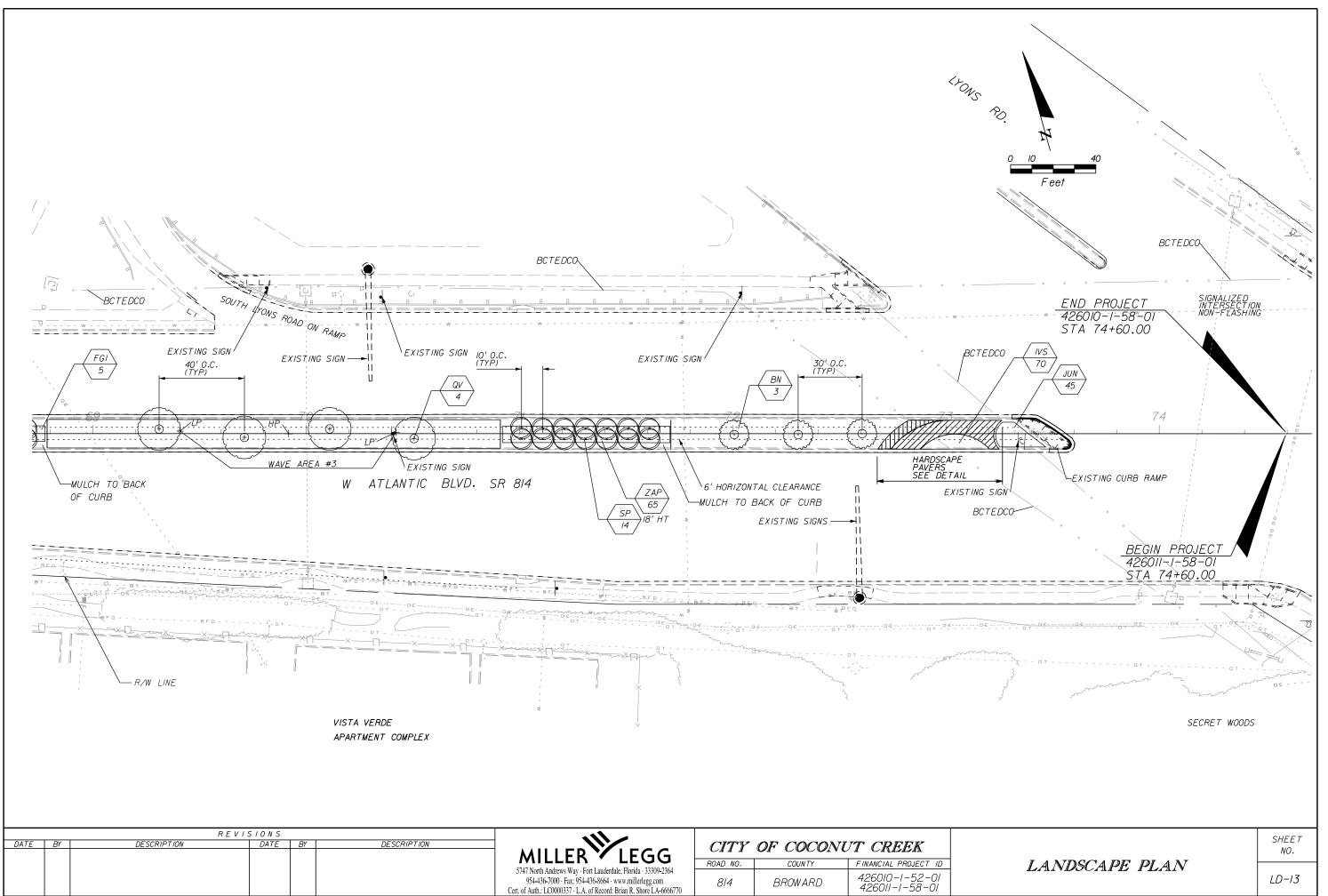
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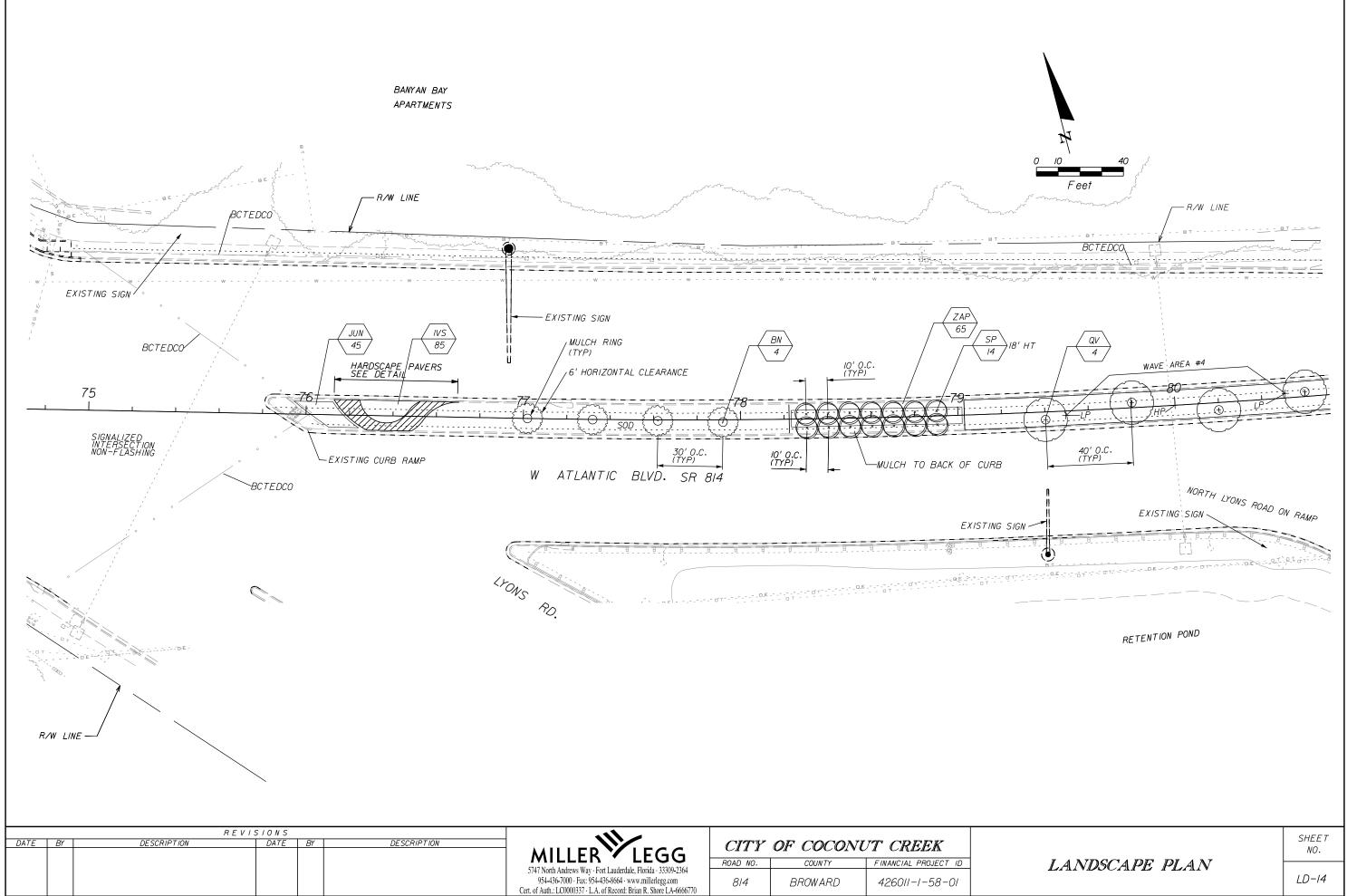
LANDSCAPE DETAILS

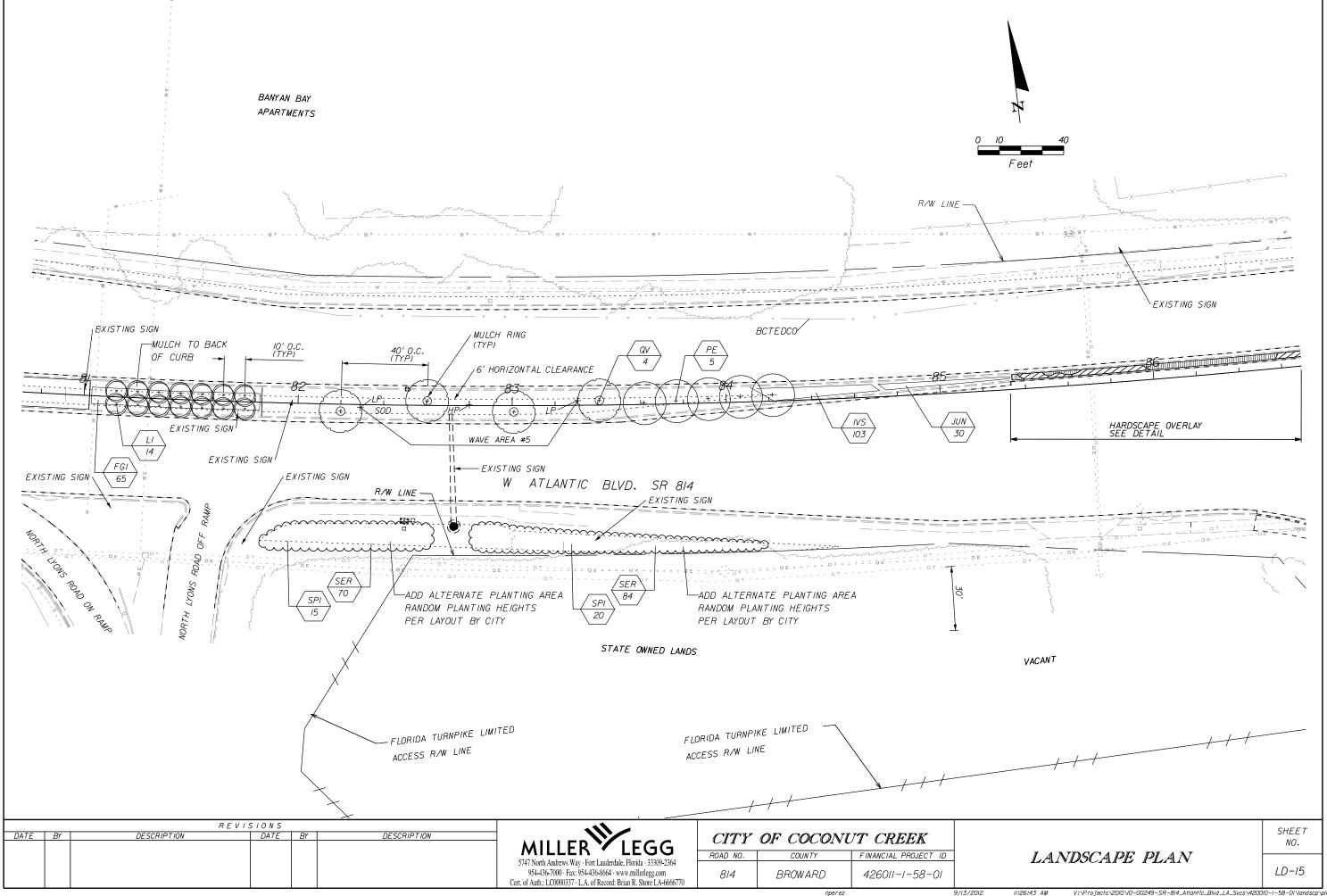


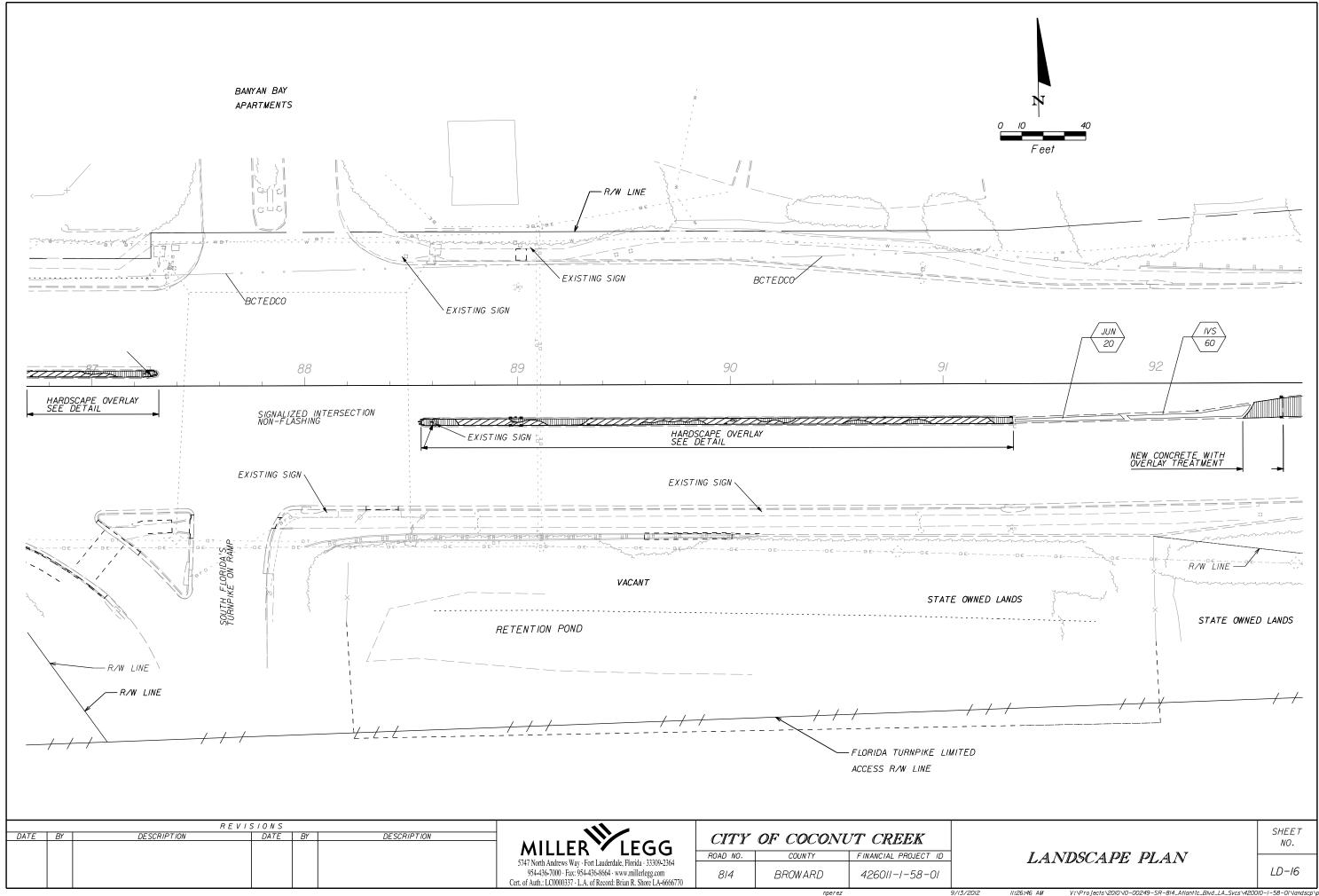
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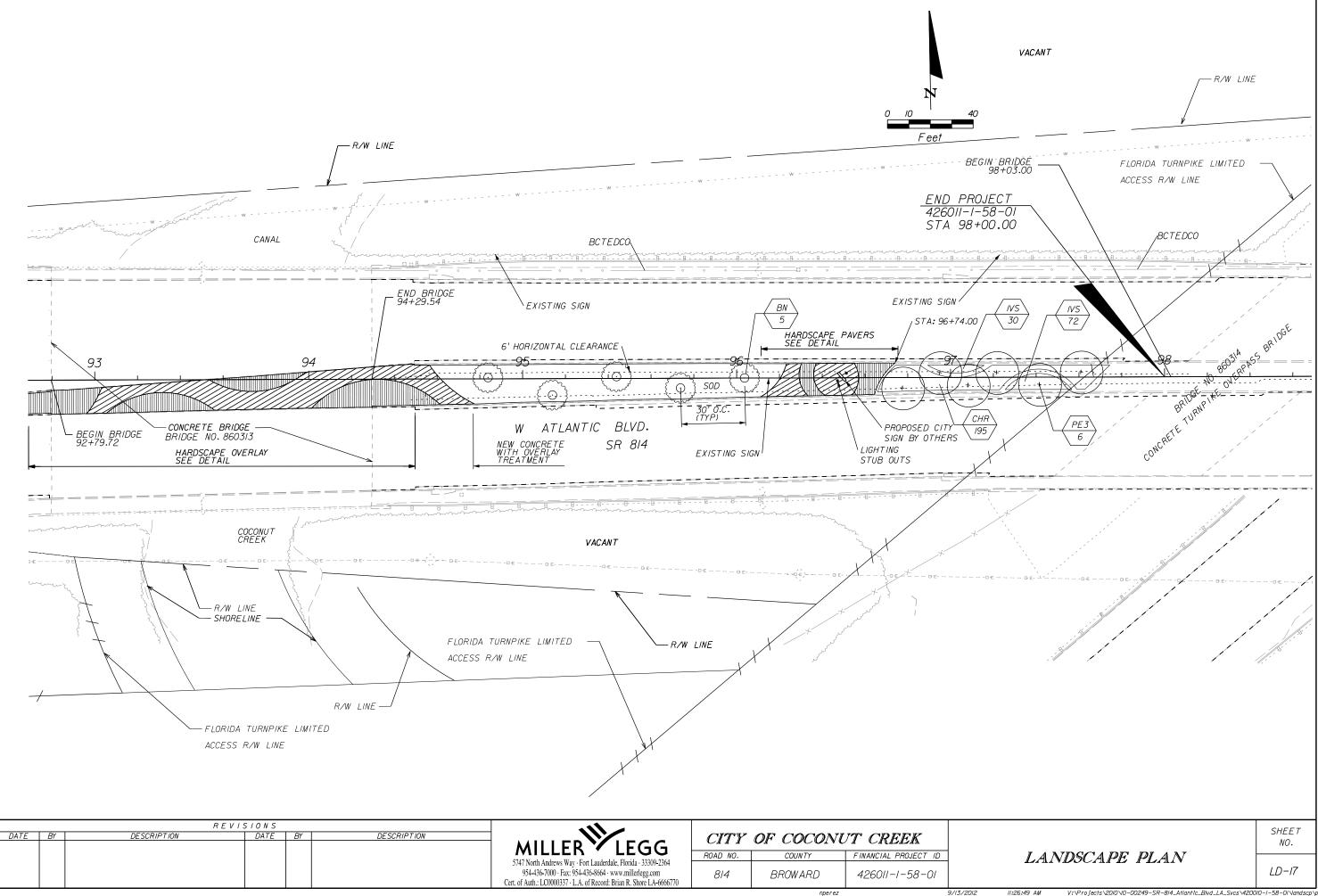












IRRIGATION GENERAL NOTES and SPECIFICATIONS

The system has been designed to conform with the requirements of all applicable codes. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to insure the entire system is installed according to all applicable laws, rules, regulations and conventions. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.

THE WORK

The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that completely complies with the irrigation plans, specifications, notes, details and all applicable laws, regulations, codes and ordinances. This work shall include, but not be limited to, the providing of all required material (pipe, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compacting, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain sensor. The rain sensor shall be installed to prevent activation of rain sensor by adjacent heads. All watering procedures shall conform to local codes, as well as this project's regional Water Management District restrictions and regulations. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item. These plans have been designed to satisfy/exceed the Florida Building Code (FBC) Appendix F and the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition.

Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner' authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation Contractor shall repair or replace all items damaged by their work. Irrigation Contractor shall coordinate their work with other Contractors for the location and installation of pipe sleeves and laterals under roadways and paving, etc.

The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.

POINT OF CONNECTION (P.O.C.)

The P.O.C. is a proposed 5HP centrifugal pump station, Hoover Pumping model HCF-5CS-230/3-D,E-24,W,Z or equal, utilizing a well source as specificed on plan details. The P.O.C. must be capable of delivering a minimum of 55 GPM at 50 PSI. Contractor shall verify these minimum conditions can be met prior to the begin irrigation system installation.

If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the Contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PIPE

Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a 18"-24" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project properties boundary.

Pipe sizes shall conform to those shown on the plans. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged / rejected pipe shall be removed from the site at the time of said rejection.

All pipes are to always be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, pavers, and walks, the pipes must be sleeved using High Density Polyethelene (HDPE) (per section 555)under existing roadways and sidewalks where directional bore is utilized and Sch 40 PVC elsewhere with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

Mainline shall be Class 200 gasketed 'O' ring PVC with ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer: slow-drying, heavy duty cement and tinted (purple) primer that is compatible with the cement. The PVC cement shall be Weld-On 2711 grey and the primer shall be Weld-On P70 purple primer, or approved equals.

ELECTRICAL POWER SUPPLY - SERVICE POINT

Electrical supply, Electrical calculations, rack system, phone line for pumps and controllers to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supply's for required electrical components as set forth in the irrigation plans. Provide Service Point in conformance with Index 17504 except amending note three to provide 230 volts. Provide electrical shop drawings signed and sealed by Electrical Engineer.

All electrical to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for the controller shall be 120 volts. Power for pump station shall be 230 volts Phase 3.

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3M-DBY,DBR connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows: #14 white for common #14 spare black common #14 red for hot wires #14 spare yellow hot wire

SPARE WIRES

Run spare wires into every RCV valve box. Install a minimum of 2 common and 4 hot wires, in all directions, to every RCV connected to its respective controller.

CONTROLLER GROUNDING

Contractor to utilize 4"X8'X5/8" copper grounding plates, 5/8"X10' copper clad grounding rods, 'One Strike' CAD wells at all connection points, #6 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller location, and test results. Each controller shall be so grounded and tested.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to insure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will be installed from a reuse water system with purple PVC risers.

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SHEET NO.

IRRIGA TION NOTES

IRRIGATION GENERAL NOTES and SPECIFICATIONS (CONTINUED)

Locate valves prior to excavation. Insure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds.

VALVES

Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

VALVE BOXES

Valve boxes shall be standard unless otherwise noted to be traffic rated boxes.

Using 3" high number stencils paint the valve number in white on the lid of each valve box.

EQUIPMENT

Bubblers shall be installed using Sch 80 nipples and shall be placed at the edge of tree/palm rootball for low level watering.

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints.

All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the size of the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

ATTACHMENT TO STRUCTURES:

Comply with FDOT 2010 Utility Accomodation Manual, Section 4.7.1

INSTALLATION

Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required: refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

BACK FILL

The Back fill 6" below and 6" above all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

Main line pipe depth measured to the top of pipe shall be 18" minimum, 36" minimum at vehicular crossings.

Lateral line depths measured to top of pipe shall be 12" minimum, 36" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING

Prior to the placement of heads, flush all lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer. Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving.

TESTING

Remove all remote control valves and cap using a threaded cap. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. Gasketed piping shall lose no more water than allowed per the Florida State Building Code, Volume II Plumbing, Part VI, Appendix 'F'. Refer to this section for the formula to be used to calculate the maximum allowable water loss during the testing time. If these parameters are exceeded. locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

The lateral lines must be filled and visually checked for leaks. Any leaks detected must be repaired. No pressure test of the lateral lines is required.

Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative that proper coverage is obtained and that the system works automatically from the controller. This demonstration requires that each zone is turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Operational Testing - Upon completion of back filling, finish grading and contouring, test the entire system for proper operation; including electrically actuating the remote control valves. Run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In sandy soils no puddling will occur, instead; calculate the required run times.

SUBMITTALS

The contractor must submit for approval, prior to installation, copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system. Minimum submittal items are: Irrigation Heads, Valves, Controller, Pump (Pump, Flow Sensor, Valves, Pipe, Fiberglass Enclosure), Lateral / Main line, Sleeves, Swing Joint assembly, Fittings, Wires, Waterproof Connection, Valve Boxes, Rain Sensor and Grounding Kit.

Record Drawings - After project completion, and as a condition of final acceptance, the irrigation contractor shall provide the owner and FDOT Broward Operation with a high quality, accurate, and legible set of as-built drawings. The as-builts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeving, and low voltage wiring. Each of these items is to be located using a submeter GPS system. The irrigation contractor must also provide accurate, informative, and easy to follow and understand operation and maintenance manuals for all components of the irrigation system.

After project completion, and as a condition of final acceptance. Provide the Engineer with three (3) and the Maintaining Agency two (2) accurate, and legible, set of as-built drawings. Identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeving, and low voltage wiring. To locate each item two dimensions, from fixed objects of a permanent nature, noted on the as-builts. Provide accurate, informative, and easy to follow and understand, operation and maintenance manuals for all components of the irrigation system.

Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.

Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Include tools to service these products.

- Sprinkler Units: Five of each unit for each type and size installed, but no fewer than two units. 1.
- 2. Emitter Units: Five of each unit for each type and size installed, but no fewer than two units.

FINAL ACCEPTANCE

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

- 1. Final walk-thru and correction of all punch list items.
- 2. Completion and acceptance of `as-built' drawings.
- Acceptance of required controller charts and placement inside of controllers. 3.
- 4. Turn over of all required parts and tools as outlined in the project specifications.

GUARANTEE AND MAINTENANCE

The irrigation systems shall be guaranteed and maintained for a minimum of one calendar year from the time of final acceptance.

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						MILLER / LEGG	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	1	
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IRRIGATION SCHEDULE

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· Valve Number

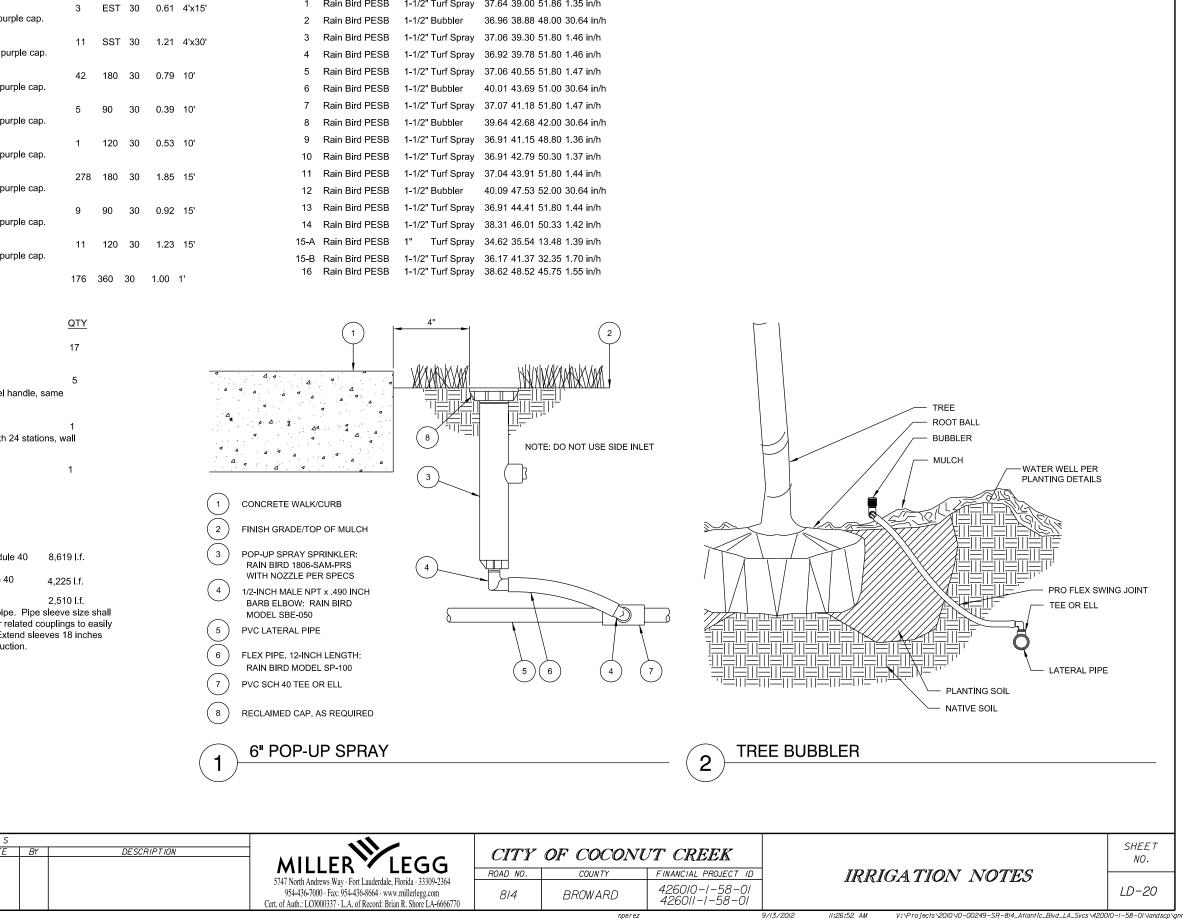
Valve Flow

- Valve Size

MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	ARC	PSI	GPM	RADIUS	、
					10.0100	2
Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap.	3	EST	30	0.61	4'x15'	
Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap.	11	SST	30	1.21	4'x30'	
Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap.	42	180	30	0.79	10'	
Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap.	5	90	30	0.39	10'	
Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap.	1	120	30	0.53	10'	
Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap.	278	180	30	1.85	15'	
Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap.	9	90	30	0.92	15'	
Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap.	11	120	30	1.23	15'	
Rain Bird 1800-1400 Flood Food bubbler on flex pipe.	176	360	30	1.00	1'	
MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>					
Rain Bird PESB	17					
Electric Remote Control Scrubber Valve	17					
Nibco T-113	5				-	٩.
Class 125 bronze gate shut off valve with wheel handle, sam size as pipe diameter, Size Range - 1/4" - 3"	e					1
Rain Bird ESP-24SITE-W	1					
Rain Bird ESP-SITE-SAT satellite controller with 24 stations, mount.	wall					. v
5HP Centrifugal Pump Station	1				-	<u>.</u>
Electrical Meter					(1
Well					(2
Irrigation Lateral Line: PVC Schedule 40 8,	619 I .f.				(3
Irrigation Mainline: PVC Schedule 40 4,2	225 I.f.				(4
Typical pipe sleeve for irrigation pipe. Pipe sleet allow for irrigation piping and their related coupl	eve size s ings to e	asily			() (5)
Valve Callout					(6
	6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1800-1400 Flood Food bubbler on flex pipe. MANUFACTURER/MODEL/DESCRIPTION Rain Bird 1800-1400 Flood Food bubbler on flex pipe. MANUFACTURER/MODEL/DESCRIPTION Rain Bird PESB Electric Remote Control Scrubber Valve Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, sam size as pipe diameter, Size Range - 1/4" - 3" Rain Bird ESP-SITE-SAT satellite controller with 24 stations, mount. 5HP Centrifugal Pump Station Electrical Meter Well Irrigation Lateral Line: PVC Schedule 40 4,2 Typical pipe Sleeve/Directional Bore: 2.1 Typical pipe Sleeve for irrigation pipe. Pipe sleever allow for irrigation piping and their related coupl slide through sleeving material. Extend sleeves beyond edges of paving or construction.	6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1800-1400 Flood 76 od bubbler on flex pipe. MANUFACTURER/MODEL/DESCRIPTION QTY Rain Bird PESB 17 Electric Remote Control Scrubber Valve Nibco T-113 5 Class 125 bronze gate shut off valve with wheel handle, same size as pipe diameter, Size Range - 1/4" - 3" Rain Bird ESP-24SITE-W Rain Bird ESP-SITE-SAT satellite controller with 24 stations, wall mount. 5HP Centrifugal Pump Station 1 Electrical Meter Well Irrigation Lateral Line: PVC Schedule 40 8,619 l.f. Irrigation Mainline: PVC Schedule 40 4,225 l.f. Pipe Sleeve/Directional Bore: 2.510 l.f. Typical pipe sleeve for irrigation pipe. Pipe sleeves 18 inche beyond edges of paving or construction.	6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Strip Series 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Series MPR 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-1400 Flood 76 of popup with check valve, pressure regulator, purple cap. Rain Bird 1800-1400 Flood 76 of bubbler on flex pipe. MANUFACTURER/MODEL/DESCRIPTION 77 Electric Remote Control Scrubber Valve Nibco T-113 5 Class 125 bronze gate shut off valve with wheel handle, same size as pipe diameter, Size Range - 1/4" - 3" Rain Bird ESP-24SITE-W 1 Rain Bird ESP-24SITE-W 1 Rain Bird ESP-24SITE-W Well 1 Irrigation Lateral Line: PVC Schedule 40 8,619 I.f. 1 Pipe Sleeve/Directional Bore: 2,510 I.f. 7 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily side through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 15 Strip Series 11 SST 30 6" popup with check valve, pressure regulator, purple cap. Rain Bird 1806-SAM-PRS-NP 10 Series MPR 42 180 30 6" popup with check valve, pressure regulator, purple cap. 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Rain Bird 1800-1400 Flod 176 360 30 Food bubbler on flex pipe. MANUFACTURER/MODEL/DESCRIPTION 9 CTY Rain Bird PESB 17 Electric Remote Control Scrubber Valve Nibco T-113 5 Class 125 bronze gate shut off valve with wheel handle, same size as pipe diameter, Size Range - 1/4* - 3* Rain Bird ESP-24SITE-W 1 Rain Bird ESP-SITE-SAT satellite controller with 24 stations, wall mount. SHP Centrifugal Pump Station 1 Electrical Meter Well Irrigation Lateral Line: PVC Schedule 40 8,619 I.f. Frigation Lateral Line: PVC Schedule 40 4,225 I.f. Pipe Sleeve/Directional Bore: 2.510 I.f. Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily silde through sleeving material. 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VALVE SCHEDULE

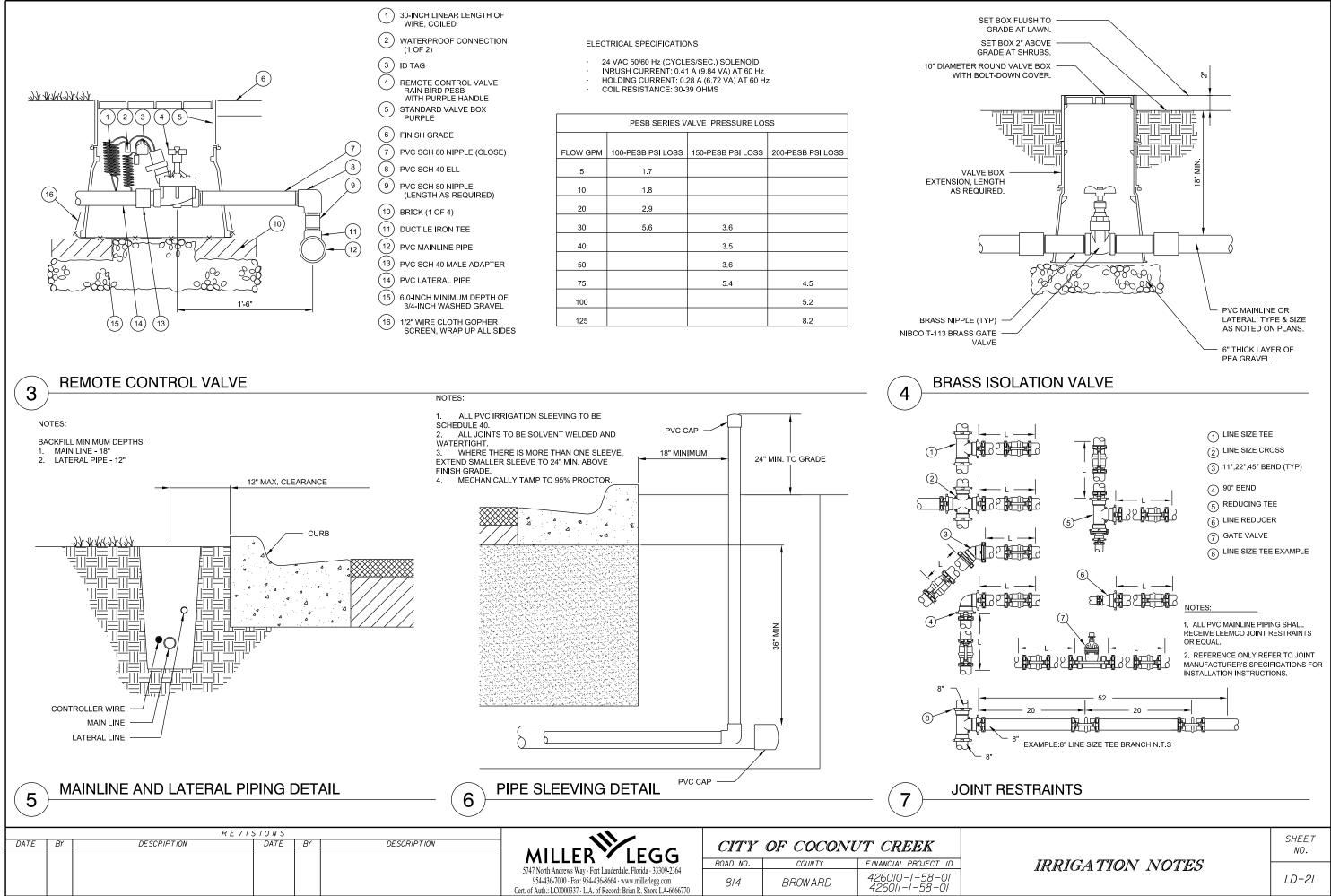
NUM	BER	MODEL	SIZE	<u>TYPE PSI</u>	PSI @) POC	<u>GPM</u>	PRECIP
1	Rain B	Bird PESB	1-1/2"	Turf Spray	37.64	39.00	51.86	1.35 in/h
2	Rain B	Bird PESB	1-1/2"	Bubbler	36.96	38.88	48.00	30.64 in/h
3	Rain B	Bird PESB	1-1/2"	Turf Spray	37.06	39.30	51.80	1.46 in/h
4	Rain E	Bird PESB	1-1/2"	Turf Spray	36.92	39.78	51.80	1.46 in/h
5	Rain B	Bird PESB	1-1/2"	Turf Spray	37.06	40.55	51.80	1.47 in/h
6	Rain B	Bird PESB	1-1/2"	Bubbler	40.01	43.69	51.00	30.64 in/h
7	Rain B	Bird PESB	1-1/2"	Turf Spray	37.07	41.18	51.80	1.47 in/h
8	Rain B	Bird PESB	1-1/2"	Bubbler	39.64	42.68	42.00	30.64 in/h
9	Rain B	Bird PESB	1-1/2"	Turf Spray	36.91	41.15	48.80	1.36 in/h
10	Rain B	Bird PESB	1-1/2"	Turf Spray	36.91	42.79	50.30	1.37 in/h
11	Rain B	Bird PESB	1-1/2"	Turf Spray	37.04	43.91	51.80	1.44 in/h
12	Rain B	Bird PESB	1-1/2"	Bubbler	40.09	47.53	52.00	30.64 in/h
13	Rain B	Bird PESB	1-1/2"	Turf Spray	36.91	44.41	51.80	1.44 in/h
14	Rain B	Bird PESB	1-1/2"	Turf Spray	38.31	46.01	50.33	1.42 in/h
15 - A	Rain B	Bird PESB	1"	Turf Spray	34.62	35.54	13.48	1.39 in/h
15 - В 16		Bird PESB Bird PESB		Turf Spray Turf Spray	· ·			1.70 in/h 1.55 in/h



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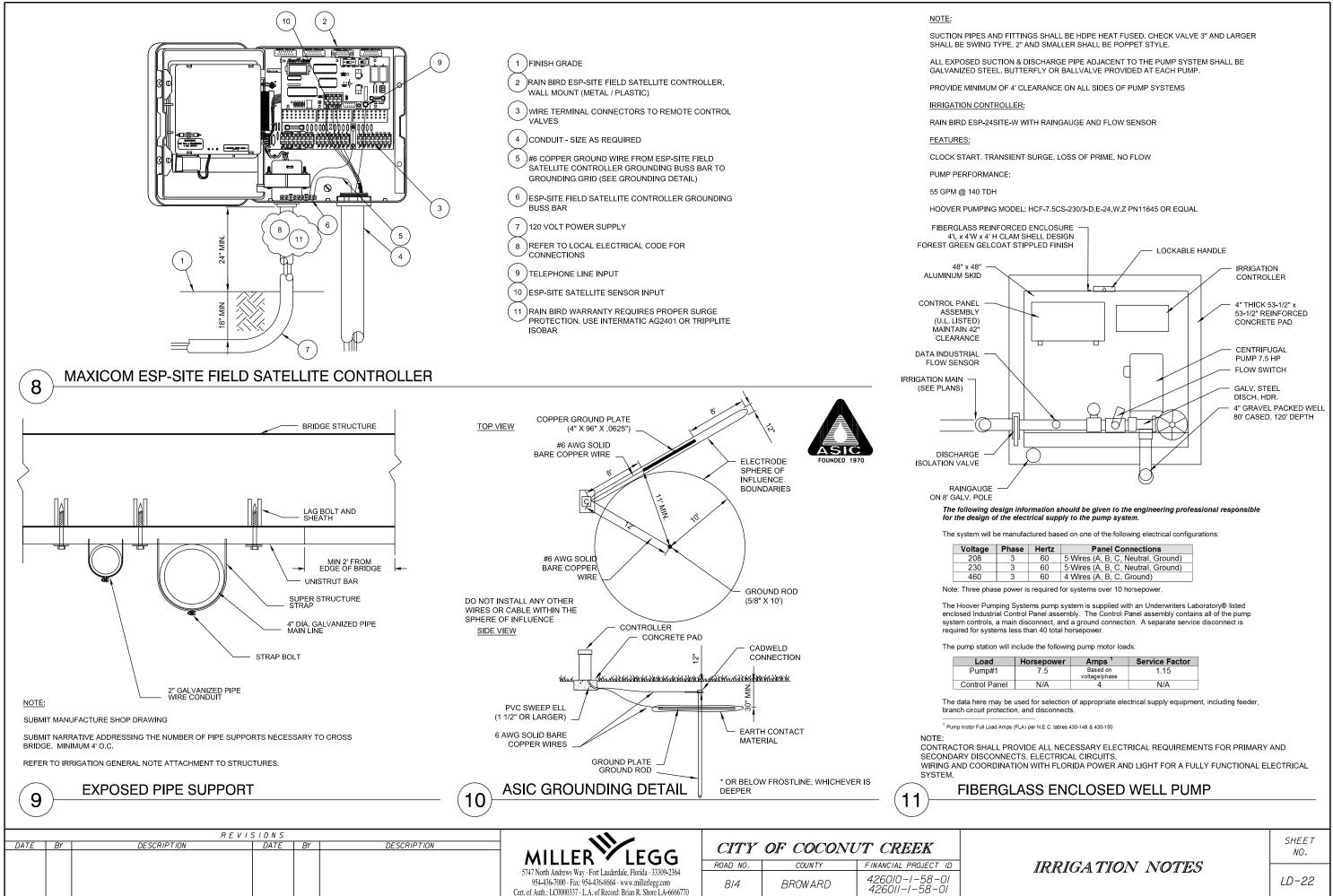
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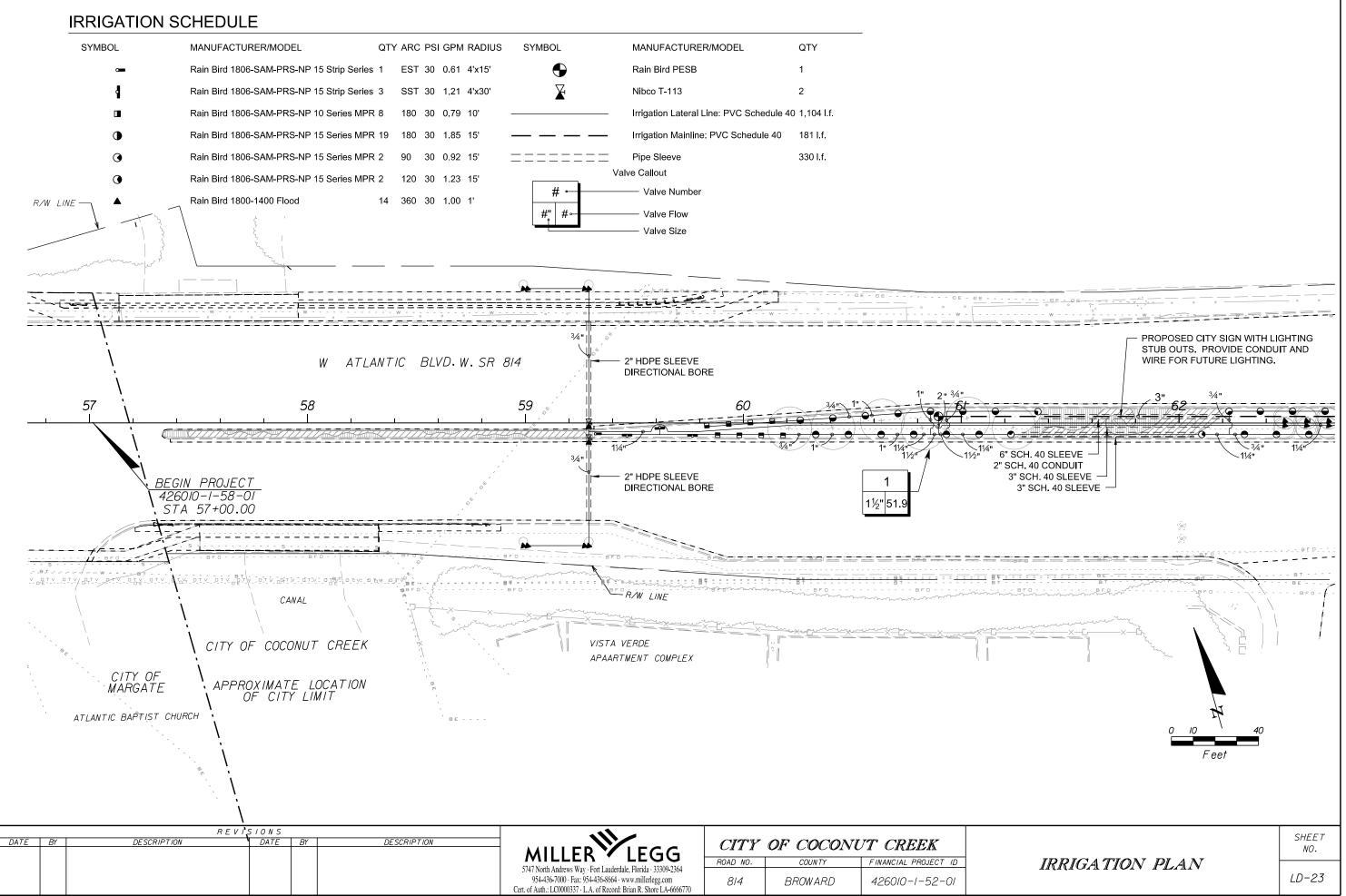
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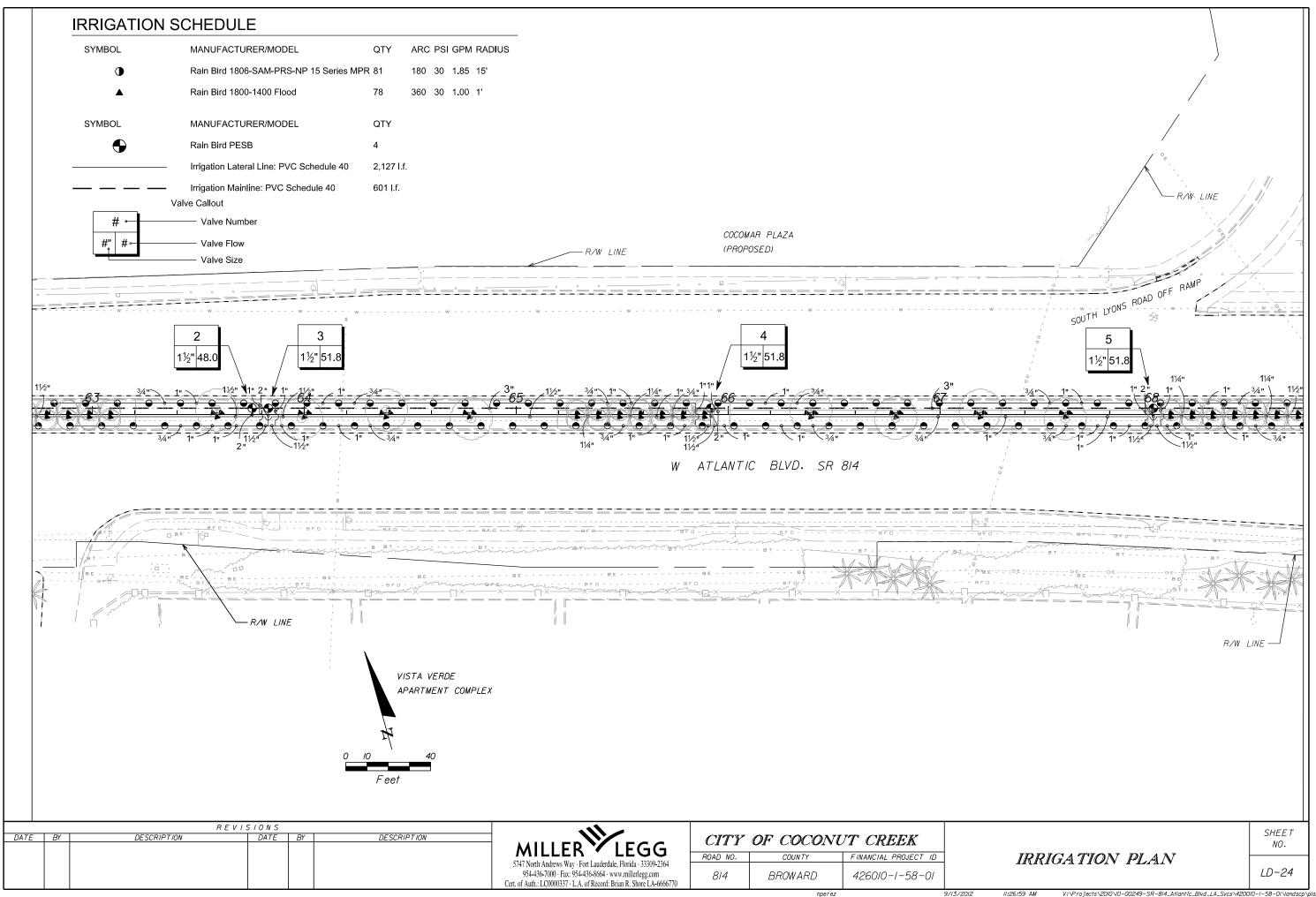
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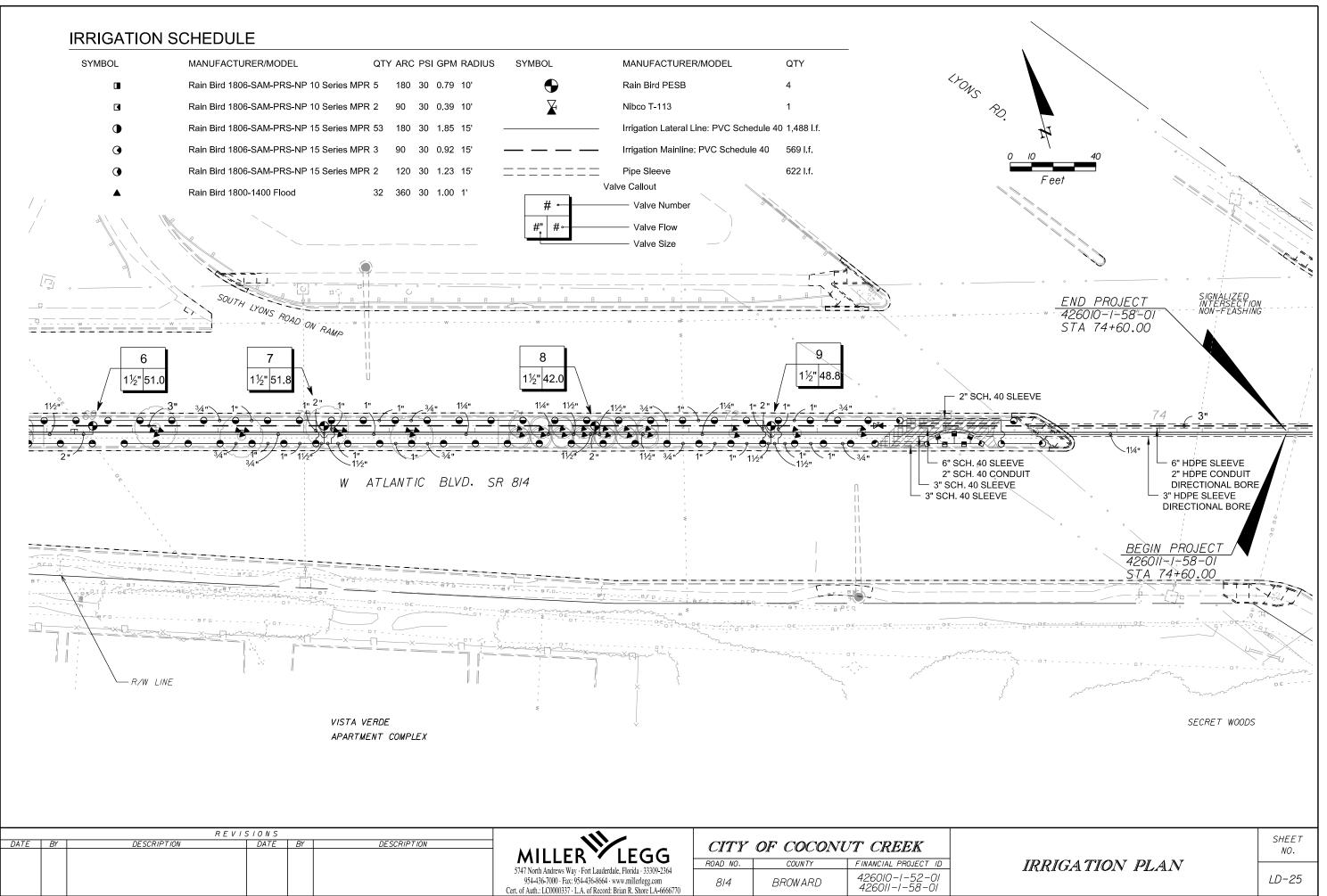


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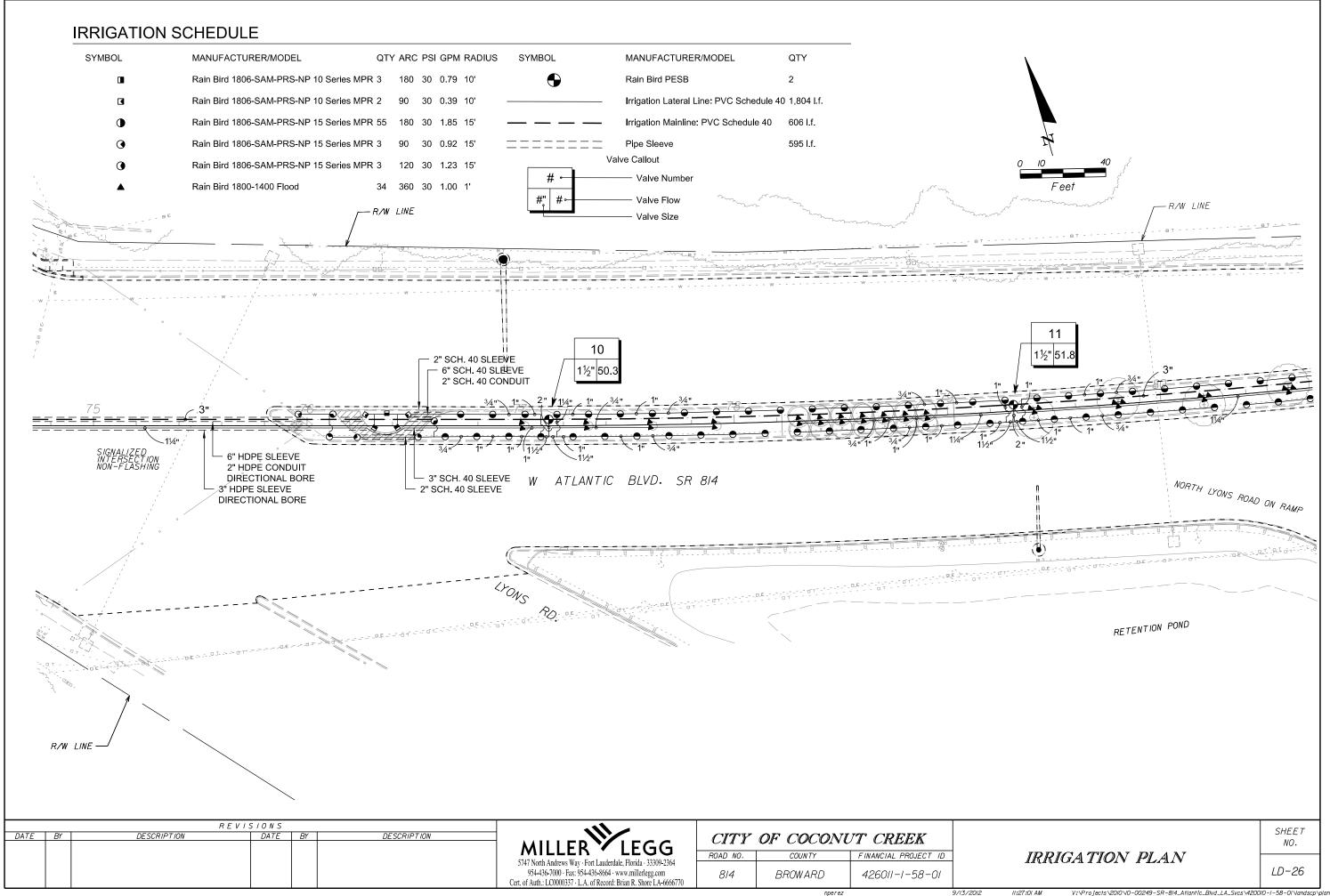


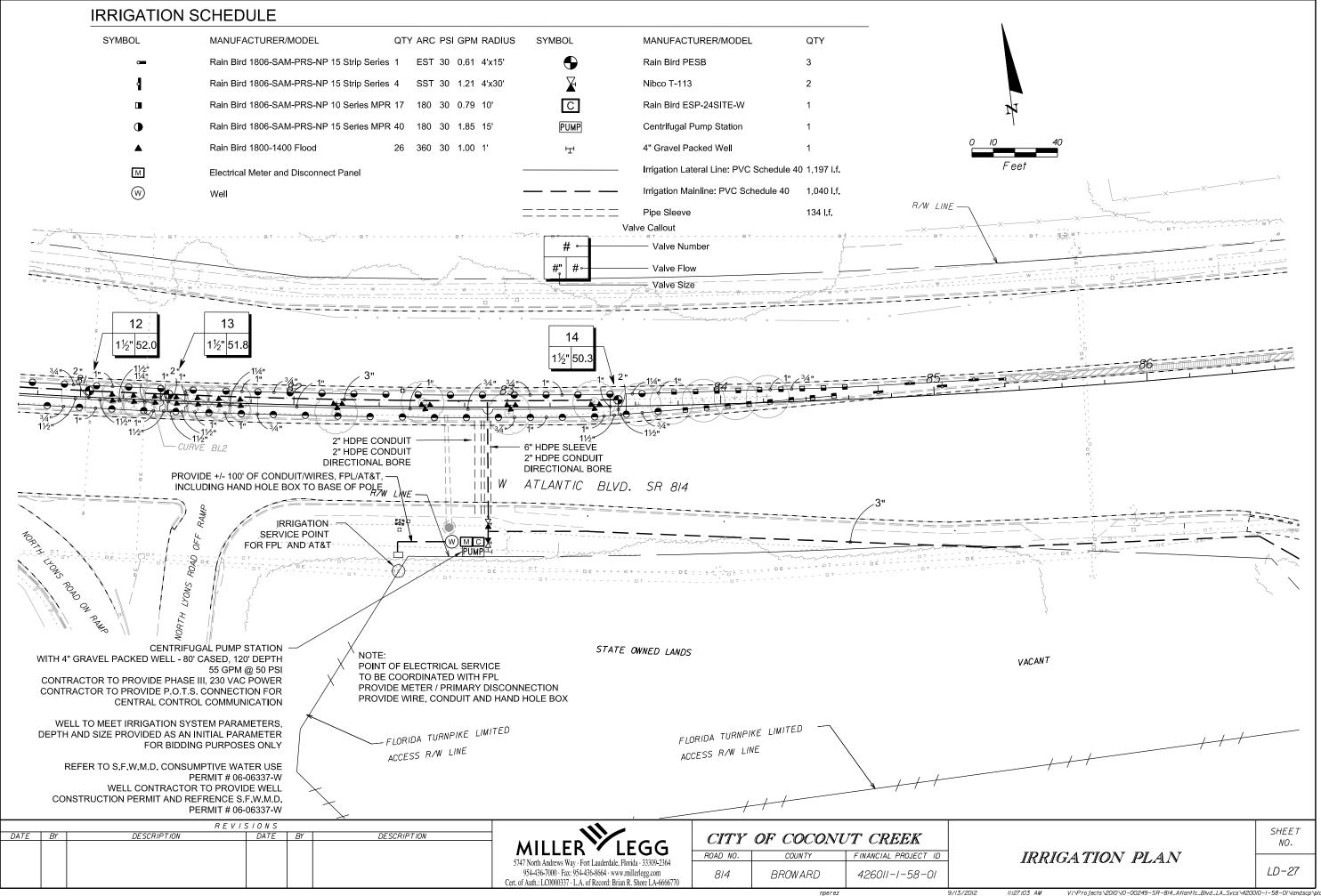


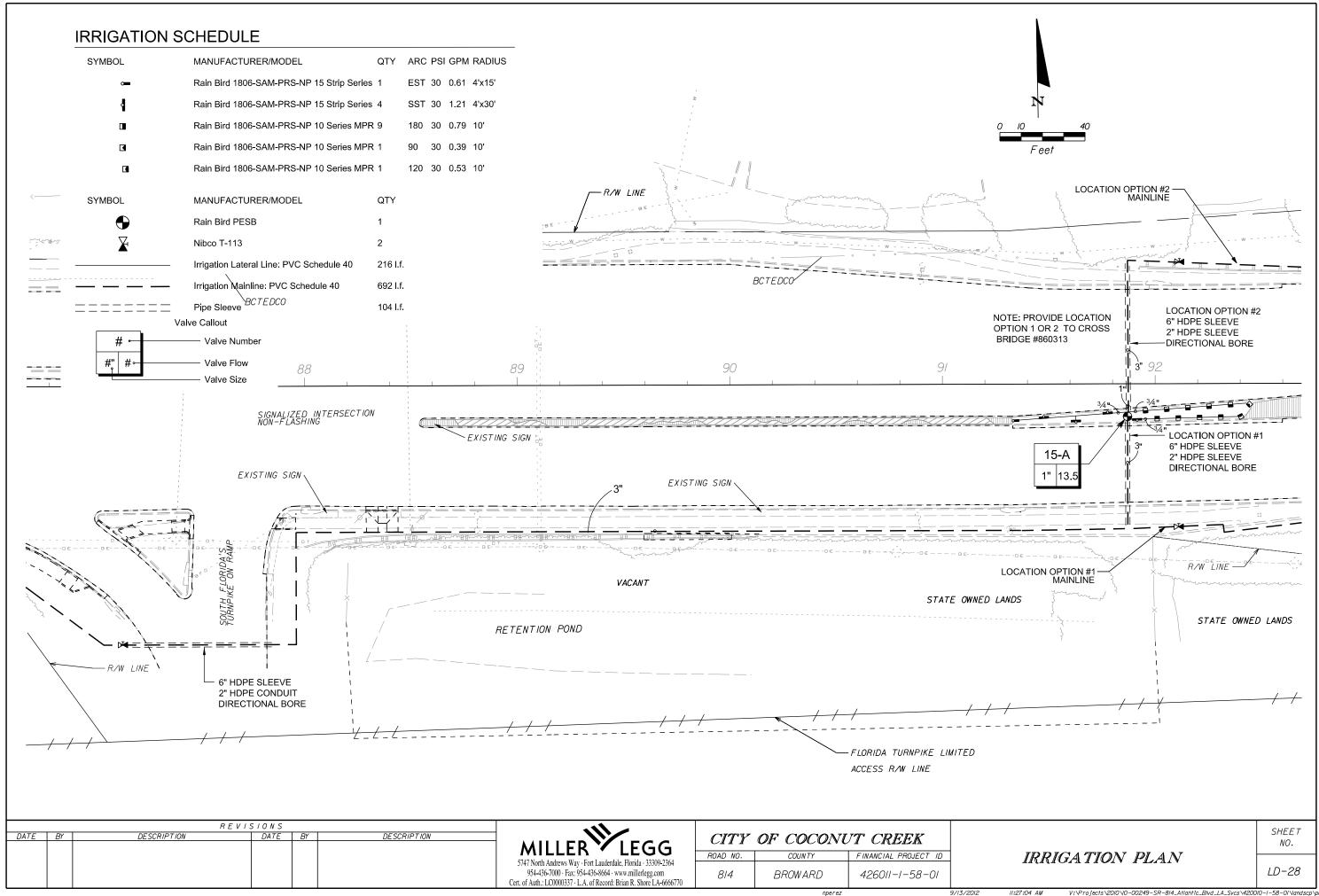
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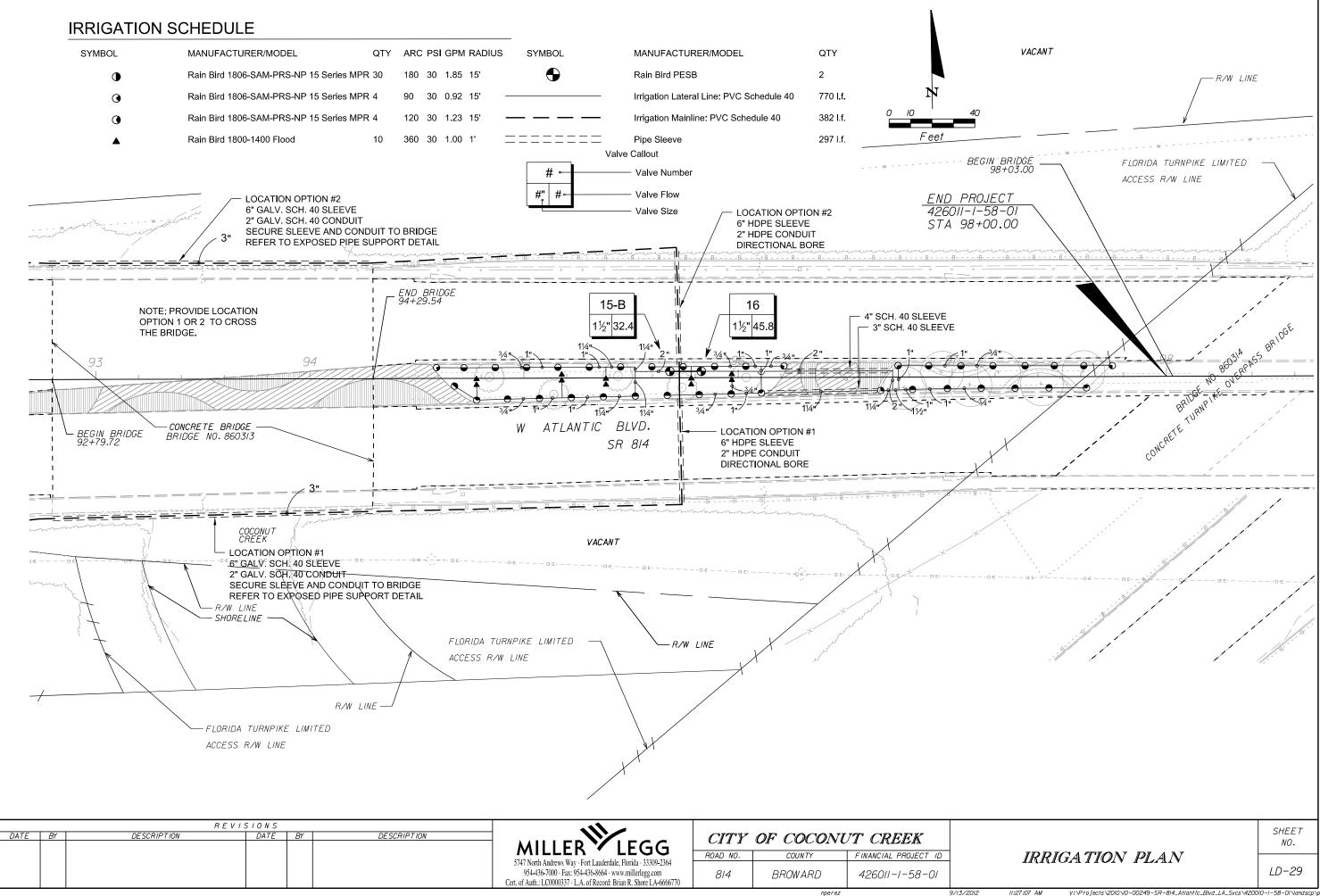
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PROJECT SPECIFIC GENERAL NOTES:

I. Traffic controls shall be in accordance with the project plans, the current edition of the Florida Department of Transportation (FDOT) Design Standards (600 series), the Standard Specification for Road and Bridge Construction, and the current Manual on Uniform Traffic Control Devices as minimum criteria.

2. Notification of lane closures shall be accompanied 14 working days prior to closure submitting the required lane closure form, sketches, calculations, and other data through the Engineer to the District Traffic Operations Office.

3. Traffic disruptions which are not shown by the traffic control plan, but which are necessary to construct the project shall be submitted in writing to the engineer 14 days prior to the commencement of work. Submittal material shall include sketches, calculations and other data required by the Engineer.

4. The traffic and travel ways shall not be altered by the Contractor to create a work zone until all labor and material are available for the construction in that area.

5. Lane closings shall occur only during non-peak hours. Peak hours are from: 7:00-9:00am and 4:00-6:00pm. 6. The regulatory speed through the work zone shall be posted 45 mph.

7. As approved by the Engineer, the Contractor shall cover work zone signs when conditions no longer warrant their use. Cost of covering and uncovering the signs, daily maintenance and monitoring shall be included in maintenance of traffic. 8. Contractor shall remove, relocate or cover any existing or proposed signs that conflict with the traffic control plans.

When the conflict no longer exists, the contractor shall restore the signs to their original position. Cost of temporarily removing, relocating, covering and restoring the signs shall be included in maintenance of traffic. 9. Uniformed, off-duty law enforcement officers can be used only as approved by the Engineer and use is limited to

construction operations for setting and removing traffic control devices, night work, moving operations, or other situations specifically approved by the Engineer. All cost for the officer(s) shall be included in the maintenance of traffic. 10. All existing signage shall be maintained in an appropriate location for the duration of the project.

11. The contractor shall maintain a minimum of one lane of traffic at all times for minor side streets. During one lane operation a flag man shall be used. If operation exceeds one work period, contractor shall cover excavation and return two way traffic at the end of each work period.

12. If temporary lane closure causes extended congestion, the contractor shall, at the direction of the Engineer, reopen the closed lane(s) at no additional cost until such time the traffic flow has returned to an acceptable level.

13. Provisions for traffic control plan which are not anticipated in the traffic control plans, but are necessary for project construction shall be submitted to the engineer at least 72 hours prior to using such provisions.

14. A certified maintenance of traffic supervisors shall be available to the project at all times when the contractor is working and shall be on call for emergencies when the Contractor is not working. All work shall cease when MOT Supervisor is not present.

15. Access shall be provided to all places of business and residences whenever construction interferes with the existing means of access. Adequate accommdations for intersecting and crossing traffic shall be provided and maintained by the contractor. No road or street crossings within the project shall be blocked or unduly restricted as determined by the engineer.

16. Contractor shall be responsible for the immediate removal of storm water from roadways utilized for maintaining traffic in a manner approved by the Engineer. Cost for removing the water shall be included in maintenance of traffic.

17. Arrows provided on details denote direction of traffic only and do not reflect pavement markings unless specifically noted.

Markinas:

1. The contractor shall maintain all existing pavement markings during construction. If necessary, Contractor shall submit to the Engineer any modifications or temporary markings to the existing pavement markings during construction. Cost of removal of temporary pavement markings, regardless of method, is included in the related pavement marking maintenance of traffic. Use of black paint to cover existing and/or temporary pavement markings is prohibited.

Drop offs: For drop offs, the contractor's attention is directed to fdot standard index no. 600, sheet 6 of 10. Signals:

1. The contractor shall have full responsibility for the normal maintenance of existing traffic signal(s) within the project limits. All signals shall remain in full operation unless deemed necessary for construction activities. The contractor shall notify Broward County Traffic Engineering Division (BCTED) (Telephone number (954) 847-2600) a minimum of 10 working days prior to any modification and/or changes of an existing traffic signal (i.e. Taking signals off-line, removing or replacing loop assemblies or rearranging traffic signal heads). The contractor shall install the temporary signalization system and have the system in operation before taking the existing system out of service. Portable temporary units shall not be used. The temporary signal system shall be adjusted to the traffic needs of each construction phase. Signal heads are to be located with respect to approach lanes. Cost of adjusting temporary signal for the required tcp phases shall be included in maintenance of traffic.

2. The contractor shall utilize the existing signal equipment or provide all necessary signalization components and appurtenances, including but not limited to; poles, temporary electric service connections, temporary conduits and wires, relocation of existing controllers or temporary controllers, and necessary signal timing coordination with Broward County Traffic. The contractor shall provide maintenance of the temporary signal system until the permanent system is installed and functional. Cost to be included in maintenance of traffic.

Pedestrian, bicycles & wheelchairs:

1. The contractor shall maintain pedestrian, bicycle, and wheel chair traffic on at least one side of the roadway at all times during construction. This shall be done in accordance to index 660 10f1. 2. At the end of each work day or whenever the work zone becomes inactive, any drop-off adjacent to pedestrian travel paths shall be backfilled flush with the travel path or shall be protected with barricades, temporary barrier wall or approved handrail.

3. Pedestrian, bicycles, and wheelchair traffic shall be guided and maintained using approved warning lights, signing, markings, and channelization devices. Such control devices shall be installed and maintained in accordance with, FDOT standards and the current mutcd. All ADA requirements must be maintained. 4. The contractor shall maintain access and signs for existing bus stop locations within the project limits. If existing bus stops need to be relocated, provisions to accomodate bus stops must be coordinated with the Broward County Mass Transit Agency, telephone number (954) 357-8400.

6. Provide at least one safe, walkable path throughout the construction zone. If the existing current walking surfaces cannot be maintained, then a temporary path, a minimum of 4 foot wide, shall be provided and delineated. Temporary paths shall be delineated by a 4 foot high orange construction fence for the entire length of the temporary walk path. The path shall meet all ADA requirements. The contractor shall also install or modify any additional pavement, signing, markings or pedestrian signals as needed in conjunction with the temporary path.

7. On days that school is in session, the contractor's work schedule within the school zone may be reduced based on actual work activities in the school zone. See Maintenance of Traffic plans for details on the work zone restrictions, if warranted. Any changes in the Maintenance of Traffic work schedules within school zones should be discussed during the mandatory reconstruction school safety meeting.

8. All work required at designated school crossings and pedestrian crossings shall be restored to a safe walkable path between the hours noted in No. 2. above.

9. Thirty (30) days prior to the beginning of construction the Contractor SHALL notify the Special Projects Coordinator at Broward County Traffic Engineering Division, (954) 847-2671, to arrange a pre-construction school safety meeting. 10. It SHALL be the Contractor's responsibility to notify the Broward County School Board Pupil Transportation Department Transportation Operations Supervisor, (754) 321-4400 ext # 2013, to arrange a pre-construction school bus route meeting. This meeting is to determine all bus routes and to make any necessary arrangements or rerouting. This meeting shall include the Special Projects Coordinator from Broward County Traffic Engineering Division, (954) 847-2671. Note to PMs and Plan Reviewers: Consider the work scope in using these notes. If the work will require a shutdown of an existing designated school crossing during the hours

of use by the school, we will have to add a note requiring the contractor to hire an Off-Duty officer to cross students at alternate locations. This should be coordinated/discussed with the Special Projects Coordinator at Broward County Traffic Engineering Division during design. Coordination with the school will be done during the construction of the project.

Landscape plan specific notes:

1. For landscape work within or near median, reference Station Points 88+00 to 98+00 (Index 613). For landscape work along outer edges and ramp area (Index 612).

2. INTERSECTIONS: Vista Verde Entrance, South Lyons Road on and off ramps, North Lyons Road on and off ramps, Lyons Road, Florida's Turnpike on ramp:

a. FDOT standard index 616 must be implemented when median work near intersection condition exists. b. Traffic control at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely.

c. Contractor to cover signal heads or make signal head revisions where impacted as required due to maintnance of traffic per FDOT standard index 600 and fdot traffic operations office. Broward county transit Route 42 runs along SR 814. d. Maintenance of traffic shall include provisions for pedestrians and / or school traffic as well as vehicular traffic. Contractor to comply with all school safety requirements as outlined in the BCTED Maintenence of traffic school / pedestrian criteria.

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SHEET NO.

FFIC CONTROL NOTES

COMMUNICATION:

I. The agency responsible for maintenance of the traffic signals and related equipment is Broward County Traffic Engineering Division (BCTED). All system communications equipment, cabling and related material shall comply with Broward County's latest edition of the minimum standards as expressed in the "Standards and Specifications - Communication Infrastructure" document. Please refer to (BCTED's) Communications Policies and Procedures for additional information. Broward County Traffic Engineering Division will not accept any projects that do not meet these standards and specifications. If fiber optic pull boxes already exist at an intersection, no additional fiber optic pull boxes will need to be installed. For a copy of these standards refer to the Broward County web site at www.BROWARD.ORG/TRAFFIC under publications.

2. If there are Copper Interconnect Cable/s within your project limits or within 1500 feet of your project limits contact Bret Henderson, Traffic Signal Supervisor at brhenderson@broward.org or 954-847-2702.

3. If there are Fiber Optic Cable/s within your project limits or within 1500 feet of your project limits contact Robert Blount Communications Manager at rblount@broward.org or 954-357-8242.

4. All BCTED communications cables/conduit shall be located a minimum of 48 hours in advance.

5. Broward County Traffic Engineering Division - Procedure for Notification of Communication Disruption

A. Copper Interconnect Cable Notification Contact Person

When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor <u>shall</u> provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification <u>shall</u> be conveyed via electronic mail (email) to the Traffic Signal Supervisor at <u>brhenderson@broward.org</u>. Notification shall include contact person, telephone number, purpose, location and duration. The disruption <u>shall</u> last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

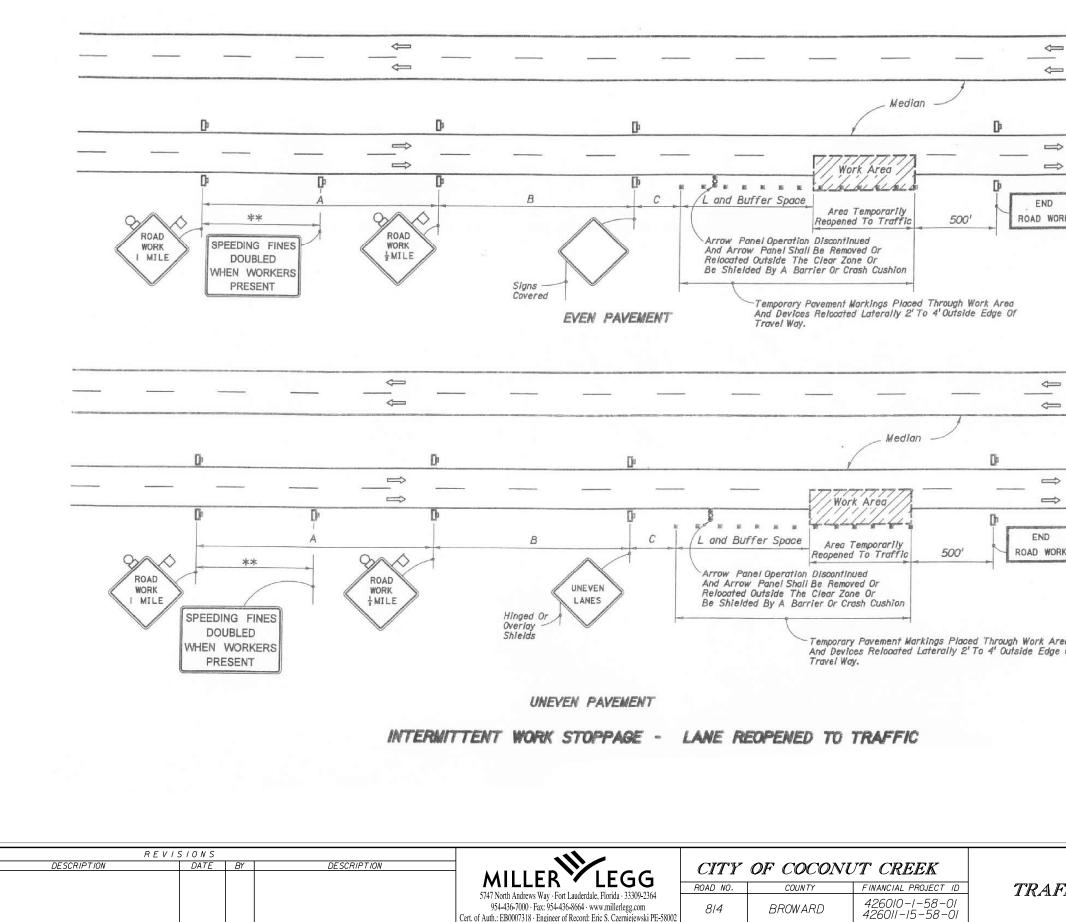
B. Fiber Optic Cable Notification Contact Person

When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor <u>shall</u> provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Traffic Signal Supervisor at <u>rblount@broward.org</u>. Notification <u>shall</u> include contact person, telephone number, purpose, location and duration. The disruption <u>shall</u> last for no more than 3 consecutive business days. Where possible, the disruption <u>shall</u> be during off peak hours beginning at 9:00am and ending at 3:00pm.

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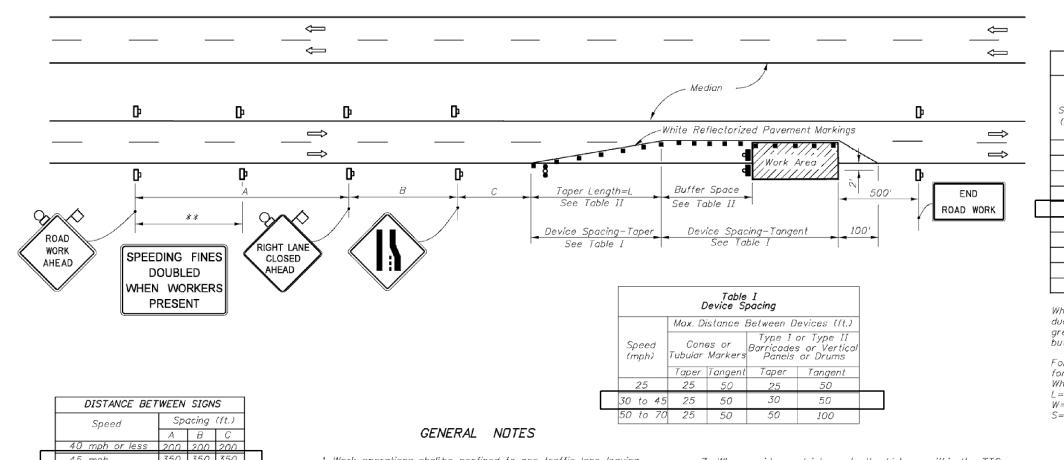
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- 350 350 45 mph 50 mph 500 *55 mph or greater 2640 1640 1000 * The RDAD WORK 1 MILE sign may be used
- as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED $\frac{1}{2}$ MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.
- ** 500' beyond the RDAD WORK AHEAD sign or midway between signs whichever is less.

SYMBOLS

Work Area

- Sign With 18"x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Type I Type II Or Type III Barricade Or ¢ Vertical Panel Or Drum (With Flashing Light)
- Ŀ Work Zone Sign
- Advance Warning Arrow Panel 608

- 1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- 2. On undivided highways the median signs as shown are to be omitted.
- 3. When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

The same applies to undivided highways with the following exceptions: (a) Work shall be confined within one median lane. (b) Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.

- 4. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- 5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- 6. When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.

- 7. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- 8. This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
- 9. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- 1. Temporary white edgeline may be omitted for work operations less than 3 days.
- 2. Signs, arrow panel and buffer space may be omitted if all of the following conditions are met:
- a) Work operations are 60 minutes or less.
- b) Speed limit is 45 mph or less.
- c) No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
- d) Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- e) Volume and complexity of the roadway has been considered.

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Table II								
Buffer Space and Taper Length								
peed	Buffer Space	Taper Length (12'Lateral Transition)						
mph)	Dist. (ft.)	(ft.)		otes lerge)				
25	155	125						
30	200	180		ws2				
35	250	245	L=	<u>ws</u> 2 60				
40	305	320						
45	360	540						
50	425	600						
55	495	660						
60	570	720	L=	:WS				
65	645	780						
70	730	840						

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use formula for L shown in the notes column. Where:

L= Length of taper in feet W= Width of lateral transition in feet S= Posted speed limit (mph)

CONDITIONS

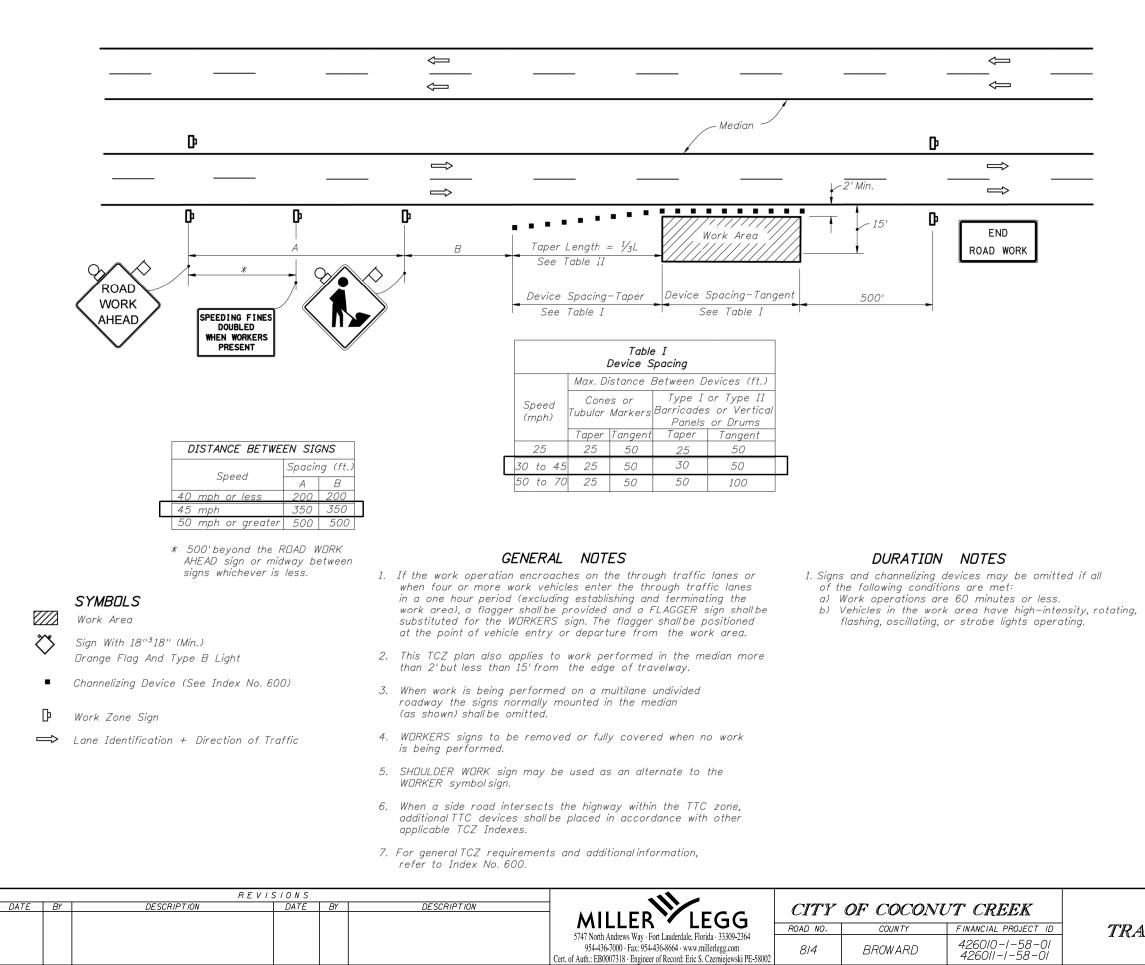
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' DUTSIDE THE EDGE OF TRAVEL WAY.

> SHEET NO.

LD-33

FIC CONTROL DETAIL

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Table II Taper Length – Shoulder							
Speed							
(mph)	8' Shldr.	10' Shldr.	12' Shldr.	Notes			
25	28	35	42				
30	40	50	60	<u>WS</u> 2			
35	55	68	82	L= 60			
40	72	90	107				
45	120	150	180				
50	133	167	200				
55	147	183	220				
60	160	200	240	L=WS			
65	173	217	260				
70	187	233	280				

8' minimum shoulder width.

 $\frac{1}{3}L$ = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width) S = Posted speed limit (mph)

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

> SHEET NO.

TRAFFIC CONTROL DETAIL