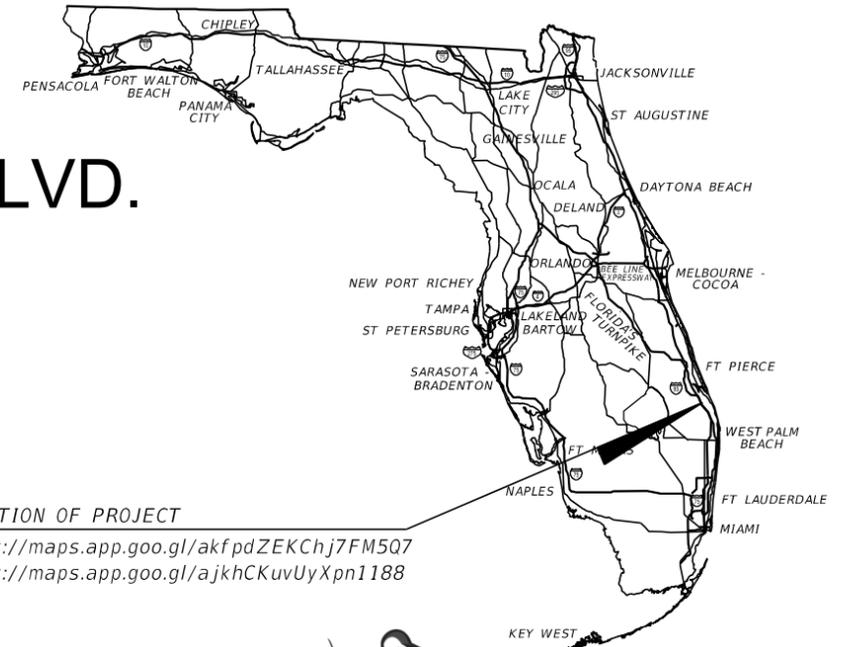


**CONTRACT PLAN COMPONENTS**

ROADWAY  
SIGNING & PAVEMENT MARKING  
LIGHTING  
LANDSCAPE

**CITY OF PORT ST. LUCIE, FLORIDA  
PUBLIC WORKS DEPARTMENT**

**LANDSCAPE PLANS  
FOR  
SW SAVONA BLVD. AND SW DARWIN BLVD.  
ROUNDBABOUTS AT SW PAAR DR.**



LOCATION OF PROJECT

<https://maps.app.goo.gl/akfpdZEKChj7FM5Q7>  
<https://maps.app.goo.gl/ajkhCKuvUyXpn1188>



**PORT ST. LUCIE**  
HEART OF THE TREASURE COAST

**INDEX OF LANDSCAPE PLANS**

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	PROJECT LAYOUT
LD-3	TABULATION OF QUANTITIES AND PLANT SCHEDULE
LD-4	LANDSCAPE NOTES
LD-5 TO LD-8	LANDSCAPE PLAN
LD-9	LANDSCAPE DETAILS
LD-10	IRRIGATION TABULATION OF QUANTITIES
LD-11	IRRIGATION NOTES
LD-12 TO LD-15	IRRIGATION PLAN
LD-16 TO LD-17	IRRIGATION DETAILS

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
STANDARD PLANS DATED FY 2024-25, AND  
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION DATED FY 2024-25, AS AMENDED BY  
CONTRACT DOCUMENTS.

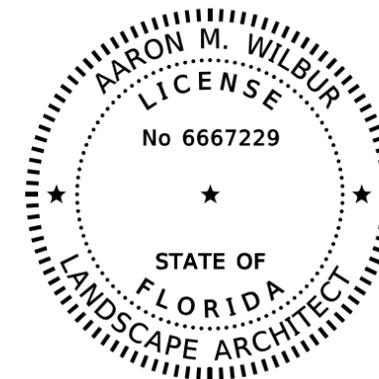
FOR DESIGN STANDARDS MODIFICATIONS CLICK ON "DESIGN STANDARDS"  
AT THE FOLLOWING WEB SITE: [HTTP://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](http://www.fdot.gov/design/standardplans)

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE:  
[HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS](http://www.fdot.gov/programmanagement/implemented/specbooks)

PLANS PREPARED BY:



1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
(561) 747-6336 • Fax 747.1377



100% DESIGN PLANS  
NOT FOR CONSTRUCTION  
JUNE 2025

THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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

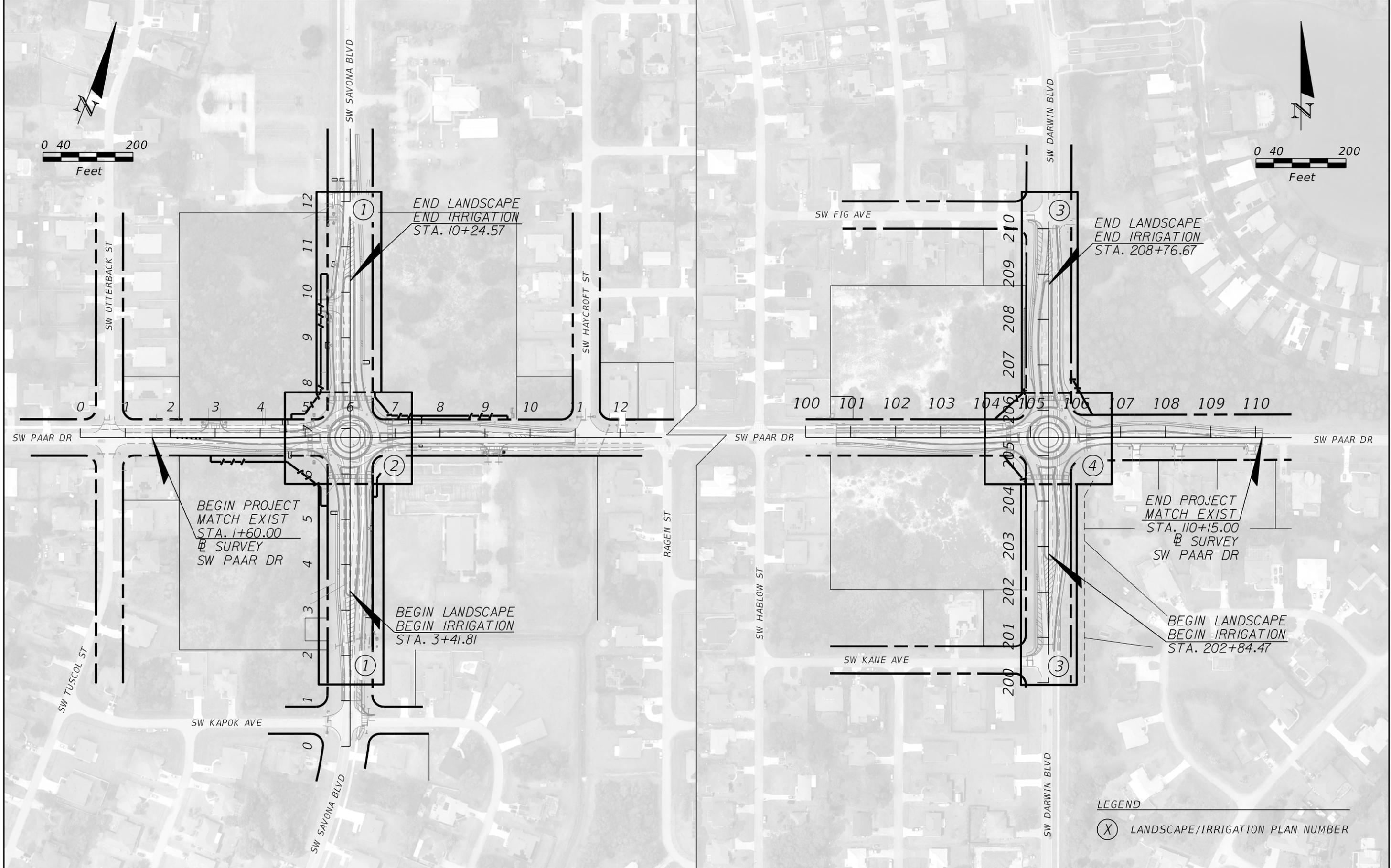
LANDSCAPE PLANS PROFESSIONAL OF RECORD:

AARON M. WILBUR, R.L.A  
COTLEUR & HEARING, LLC  
1934 COMMERCE LANE, SUITE 1  
JUPITER, FLORIDA 33458  
PHONE: (561) 747-1377

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

FISCAL YEAR	SHEET NO.
25	LD-1

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



LEGEND  
 (X) LANDSCAPE/IRRIGATION PLAN NUMBER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**PROJECT LAYOUT**

SHEET NO.
LD-2

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

SAVONA BLVD LANDSCAPE TABULATION OF QUANTITIES/PLANT SCHEDULE

PAY ITEM NO.	SYMBOL	DESCRIPTION	NATIVE	MAX MAINT SIZE	UNIT	LANDSCAPE PLAN NUMBERS				TOTAL	
						1		2		PLAN	FINAL
						PLAN	FINAL	PLAN	FINAL		
0580 1 1		LANDSCAPE COMPLETE - SMALL PLANTS (INCIDENTAL)			LS						
		MULCH, HARDWOOD			CY	90		13		103	
0580 1 1		LANDSCAPE COMPLETE - SMALL PLANTS			LS						
	CI	CHRYSOBALANUS ICACO, COCOPLUM, #3 GAL, 18"X 18", 2' OC	Y	4'	EA	962		75		1037	
	CV	CROTON VARIEGATUM, CROTON, #3 GAL, 18"X12", 2' OC	N	6'	EA	166				166	
	FG	FICUS MACROPHYLLA 'GREEN ISLAND', GREEN ISLAND FICUS, #3 GAL, 18"X 18", 2' OC	N	2.5'	EA	947		107		1054	
	MUH	MUHLENBERGIA CAPILLARIS, MUHLY GRASS, #3 GAL, 18"X 12", 2' OC	Y	3'	EA	203				203	
	PAV	PANDANUS BAPTISTII 'AUREUS', VARIEGATED DWARF PANDANUS, #3 GAL, 18"X 18", 2' OC	N	3'	EA	137		82		219	
0580 1 2		LANDSCAPE COMPLETE - LARGE PLANTS			LS						
	BN	BISMARCKIA NOBILIS 'SILVER', SILVER BISMARCK PALM, 15' CT, MIN 5'X5' RB, RP, FF, MIN 7 LC	N	NF	EA	4				4	
	CH	CHAMAEROPS HUMILIS, EUROPEAN FAN PALM, 7.5' OA X 7' SPRD, MULTI, MIN 7' TOTAL STEM FOOTAGE	N	NF	EA	2		4		6	
	CRL	CRINUM AUGUSTUM 'QUEEN EMMA', CRINUM LILY, #15 GAL, 3'x 3'	N	NF	EA	16		8		24	
	JAT	JATROPHA STANDARD, JATROPHA, 6' x 4'	N	10'	EA	8				8	
	QV	QUERCUS VIRGINIANA, LIVE OAK, 20' OA X 8' SPRD, 6" CAL	Y	NF	EA	10				10	
0580 2		1-YEAR LANDSCAPE MAINTENANCE			LS					1	

DARWIN BLVD LANDSCAPE TABULATION OF QUANTITIES/PLANT SCHEDULE

PAY ITEM NO.	SYMBOL	DESCRIPTION	NATIVE	MAX MAINT SIZE	UNIT	LANDSCAPE PLAN NUMBERS				TOTAL	
						3		4		PLAN	FINAL
						PLAN	FINAL	PLAN	FINAL		
0580 1 1		LANDSCAPE COMPLETE - SMALL PLANTS (INCIDENTAL)			LS						
		MULCH, HARDWOOD			CY	67		13		80	
0580 1 1		LANDSCAPE COMPLETE - SMALL PLANTS			LS						
	CI	CHRYSOBALANUS ICACO, COCOPLUM, #3 GAL, 18"X 18", 2' OC	Y	4'	EA	711		75		786	
	CV	CROTON VARIEGATUM, CROTON, #3 GAL, 18"X12", 2' OC	N	6'	EA	128				128	
	FG	FICUS MACROPHYLLA 'GREEN ISLAND', GREEN ISLAND FICUS, #3 GAL, 18"X 18", 2' OC	N	2.5'	EA	759		107		866	
	PAV	PANDANUS BAPTISTII 'AUREUS', VARIEGATED DWARF PANDANUS, #3 GAL, 18"X 18", 2' OC	N	3'	EA	222		82		304	
0580 1 2		LANDSCAPE COMPLETE - LARGE PLANTS			LS						
	BN	BISMARCKIA NOBILIS 'SILVER', SILVER BISMARCK PALM, 15' CT, MIN 5'X5' RB, RP, FF, MIN 7 LC	N	NF	EA	4				4	
	CH	CHAMAEROPS HUMILIS, EUROPEAN FAN PALM, 7.5' OA X 7' SPRD, MULTI, MIN 7' TOTAL STEM FOOTAGE	N	NF	EA			4		4	
	CRL	CRINUM AUGUSTUM 'QUEEN EMMA', CRINUM LILY, #15 GAL, 3'x 3'	N	NF	EA	14		8		22	
	JAT	JATROPHA STANDARD, JATROPHA, 6' x 4'	N	10'	EA	7				7	
	QV	QUERCUS VIRGINIANA, LIVE OAK, 20' OA X 8' SPRD, 6" CAL	Y	NF	EA	7				7	
0580 2		1-YEAR LANDSCAPE MAINTENANCE			LS					1	

ABBREVIATION KEY: CAL=CALIPER, CT=CLEAR TRUNK, CY=CUBIC YARD, EA=EACH, FF=FLORIDA FANCY GRADE, GAL=GALLON SIZE, LC=LEAF COUNT, LS=LUMP SUM, MAINT.=MAINTAINED, MAX=MAXIMUM, MIN=MINIMUM, NF=NATURAL FORM, N=NO, NO.=NUMBER, OA=OVERALL HEIGHT, OC=ON CENTER, RB=ROOT BALL, RP=ROOT PRUNED (MIN 60 DAYS), SPRD=SPREAD, Y=YES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**TABULATION OF QUANTITIES AND PLANT SCHEDULE**

SHEET NO.  
LD-3

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

**LANDSCAPE NOTES:**

1. THE LOCATIONS OF TREES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY SETBACKS, AVOID UTILITIES, OR AS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. FLAG ALL TREE LOCATIONS FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE PRIOR TO PLANTING.
2. ABOVE AND BELOW GROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK IN THE PROJECT AREA. NOTIFY OWNERS AND HAVE ALL UTILITIES MARKED THROUGH SUNSHINE 811 (1-800-432-4770, OR 811) THREE (3) FULL WORKING DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. IF ANY UTILITY CONFLICTS ARE DISCOVERED, IMMEDIATELY COORDINATE THE NECESSARY ADJUSTMENTS WITH THE LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE. IN THE CASE OF UTILITY CONFLICTS, THE LANDSCAPE WILL BE ADJUSTED, NOT THE UTILITY. MAINTAIN THE UTILITY LOCATE FLAGS OR PAINT MARKINGS FOR THE DURATION OF LAYOUT AND PLANTING OPERATIONS. HAND DIG ALL MATERIALS WITHIN 5' OF MARKED UTILITY LINES.
3. ALL TREES AND PALMS SHALL BE INSTALLED AND STAKED UTILIZING WOOD BRACES IN ACCORDANCE WITH THE FDOT STANDARD PLAN 580-001, PALM PLANTING DETAIL.
4. MULCH BEDS SHALL RECEIVE A UNIFORMLY APPLIED MULCH MATERIAL TO A MINIMUM THICKNESS OF 3" OVER THE ENTIRE PLANT BED, (EXCEPT WITHIN 6" OF TREE AND PALM TRUNKS). MULCH TYPE TO BE GRADE "A" RECYCLED MULCH OR SIMILAR. MULCH TYPE TO BE APPROVED BY THE LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE. A PRE-EMERGENT HERBICIDE WILL ALSO BE USED IN AREAS TO BE MULCHED PRIOR TO MULCHING. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION METHODS AND RATES. ALL COSTS FOR MULCH AND PRE-EMERGENT HERBICIDES WILL BE INCLUDED IN THE COST OF PLANTS. THERE WILL BE NO SEPARATE PAYMENT FOR MULCH OR HERBICIDES.
5. THE IRRIGATION SYSTEMS MAY NOT BE COMPLETELY OPERATIONAL AT THE TIME OF PLANTING, THEREFORE, HAND WATERING WILL BE REQUIRED. ALL COSTS FOR HAND WATERING WILL BE INCLUDED IN THE LUMP SUM COST FOR THE IRRIGATION SYSTEM. THERE WILL BE NO SEPARATE PAYMENTS FOR HAND WATERING. DETERMINE THE WATERING SCHEDULE AND RATE TO ENSURE THE HEALTHY ESTABLISHMENT OF PLANTS. PLANTS THAT DIE, OR EXCESSIVELY SHOCK DUE TO LACK OF WATER, MUST BE REPLACED AT NO COST TO THE CITY. WATER FORCE FROM WATER TRUCK SHALL NOT BE APPLIED IN A MANNER WHICH WOULD DAMAGE PLANTS, NOR IN A MANNER WHICH WOULD REMOVE THE SOIL SAUCER RING OR MULCH AROUND EACH PLANT. ANY DAMAGE TO PLANT OR OTHER SURROUNDING ITEMS, EITHER BY WATER FORCE OR WATER TRUCK, IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.

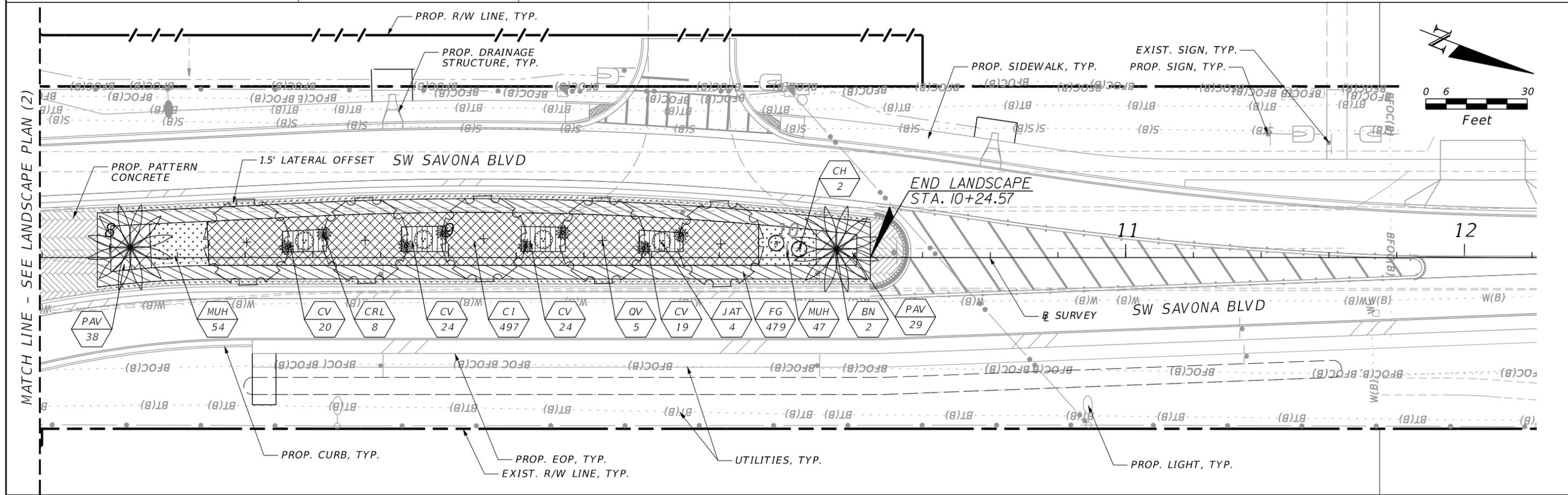
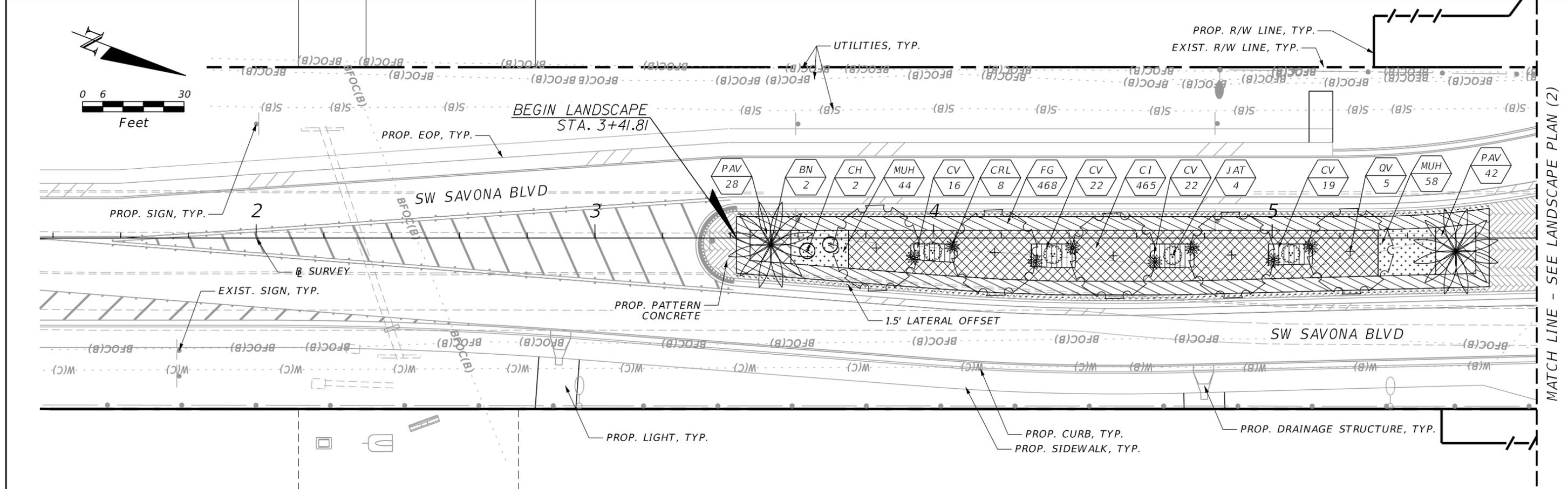
**PAY ITEM NOTES:**

**0590-70 (IRRIGATION SYSTEM)** - INCLUDES THE COMPLETE INSTALLATION OF IRRIGATION SYSTEM INCLUDING, BUT NOT LIMITED TO; PUMP STATIONS, WATER WELLS, DIRECTIONAL DRILLING, ALL IRRIGATION SYSTEM COMPONENTS (NONPOTABLE AS APPLICABLE), PERMIT FEES, WARRANTY WORK, ETC. AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THIS ITEM INCLUDES THE COST FOR ELECTRICAL CONNECTIONS FROM THE ELECTRIC SERVICE POINT BUT DOES NOT INCLUDE THE COSTS FOR PROVIDING THE SERVICE POINT. SEE THE LIGHTING PLANS AND ASSOCIATED PAY ITEMS FOR THE COST OF THE ELECTRIC SERVICE POINTS, METERS, POLES, AND OTHER COMPONENTS.

**0580-1-1/0580-1-2 (SMALL & LARGE PLANTS)** - INCLUDES THE COMPLETE INSTALLATION OF PLANTS INCLUDING, BUT NOT LIMITED TO; PLANT, MULCH, BACKFILL AMENDMENTS, FERTILIZER, HERBICIDES, SITE PREPARATION, HAND WATERING, STAKING & GUYING, SUPPLEMENTAL SOIL FOR SOIL REPLACEMENT OF PLANTING PIT BACKFILL, WARRANTY AND ANY OTHER ANCILLARY ITEMS NECESSARY FOR THE INSTALLATION. THESE PAY ITEMS ALSO INCLUDE THE COST TO MAINTAIN THE PLANTS DURING THE CONSTRUCTION PERIOD UP TO FINAL ACCEPTANCE. ANCILLARY COSTS SUCH AS MOBILIZATION AND MAINTENANCE OF TRAFFIC (DURING CONSTRUCTION) SHALL BE INCLUDED IN THE ROADWAY PAY ITEMS AND ARE ALSO NOT INCLUDED IN THESE PAY ITEMS.

**0580-2 (ESTABLISHMENT PERIOD)** - INCLUDES THE COST TO ESTABLISH AND MAINTAIN THE PLANTS & IRRIGATION SYSTEM DURING THE 1-YEAR ESTABLISHMENT PERIOD IN ACCORDANCE WITH THE PLANS. THIS ITEM ALSO INCLUDES ALL COSTS FOR MOBILIZATION, MAINTENANCE OF TRAFFIC & ALL OTHER ANCILLARY ITEMS NECESSARY TO PERFORM THE WORK DURING THIS PERIOD.

REVISIONS				 <b>Cotleur &amp; Hearing</b> <small>AARON M. WILBUR, L.A. • L.A. No.: 6667229                      1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458                      (561) 747-6336 • Fax 747.1377</small>	 <b>CITY OF PORT ST. LUCIE</b> 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984	LANDSCAPE NOTES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD	COUNTY	CITY PROJECT NO.	LD-4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

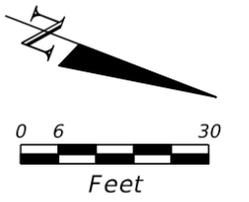
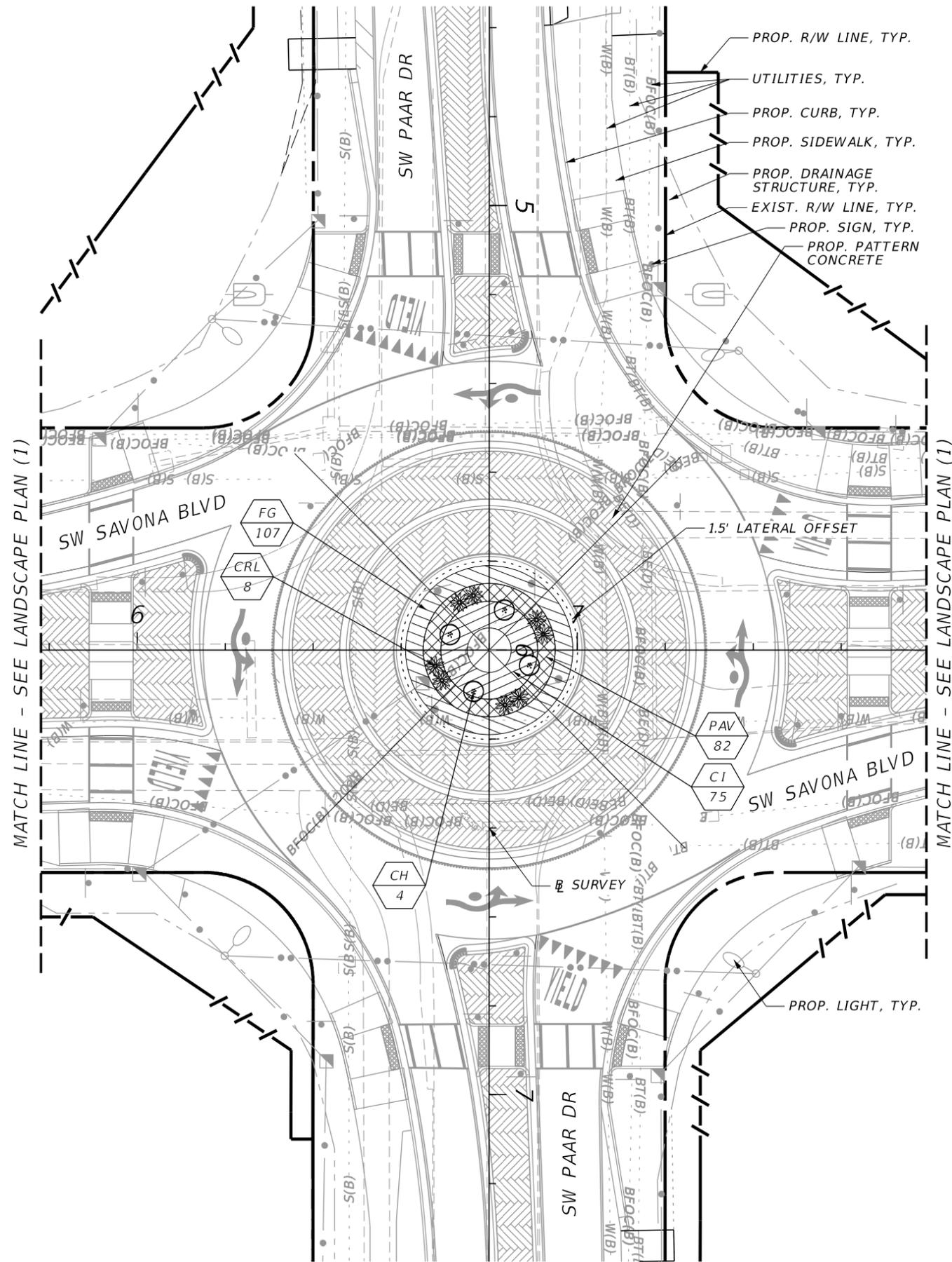
**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**LANDSCAPE PLAN (1)**

SHEET NO.  
LD-5

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



MATCH LINE - SEE LANDSCAPE PLAN (1)

MATCH LINE - SEE LANDSCAPE PLAN (1)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

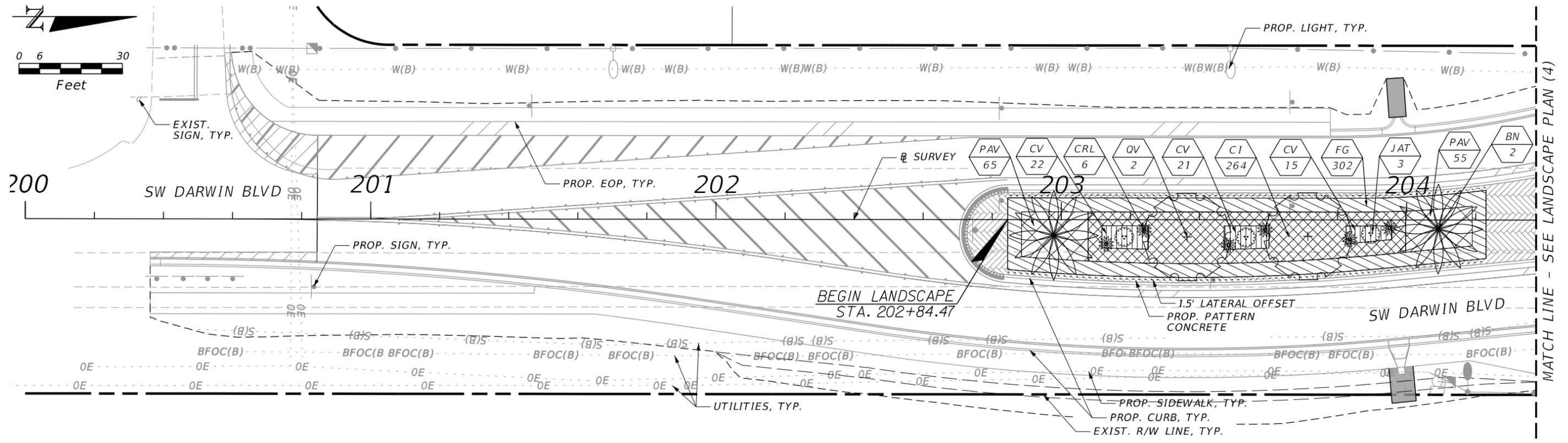
**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984		
ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

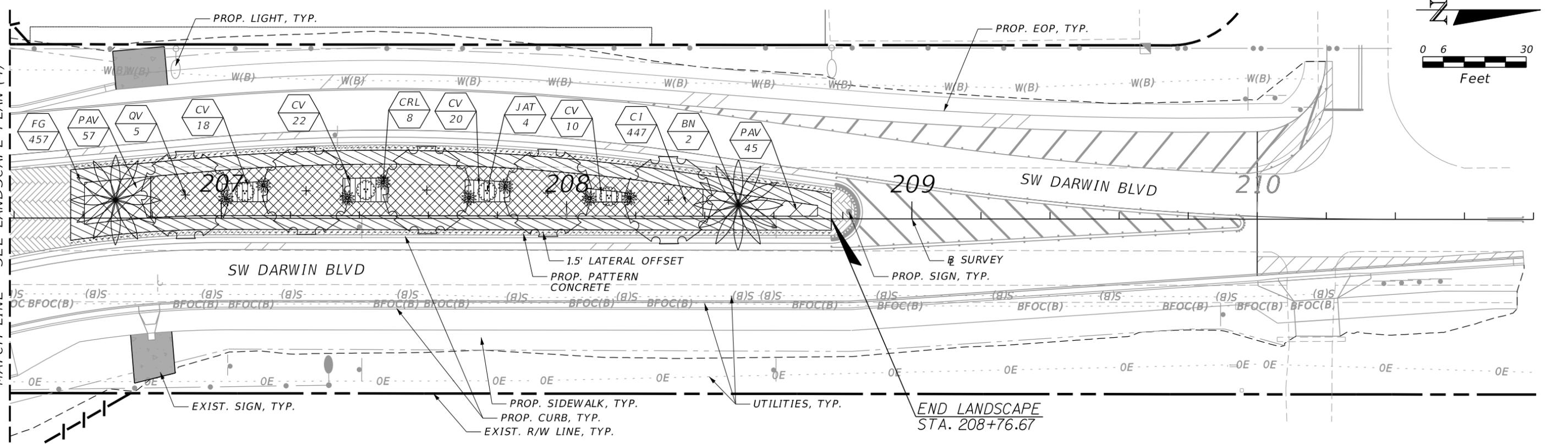
**LANDSCAPE PLAN (2)**

SHEET NO.  
LD-6

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-II.001, F.A.C.



MATCH LINE - SEE LANDSCAPE PLAN (4)



MATCH LINE - SEE LANDSCAPE PLAN (4)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

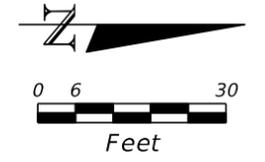
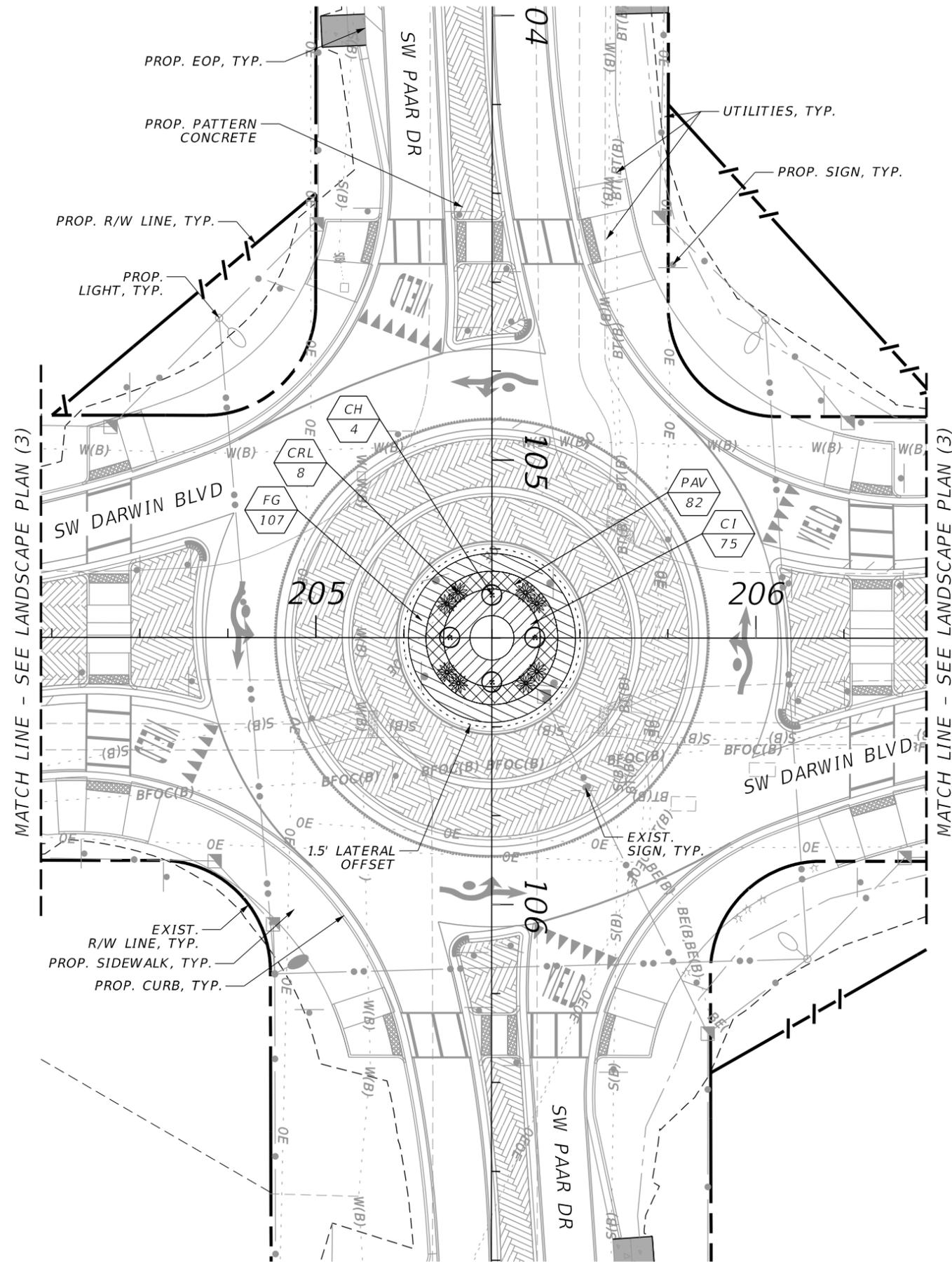
**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**LANDSCAPE PLAN (3)**

SHEET NO.  
LD-7

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984		
ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

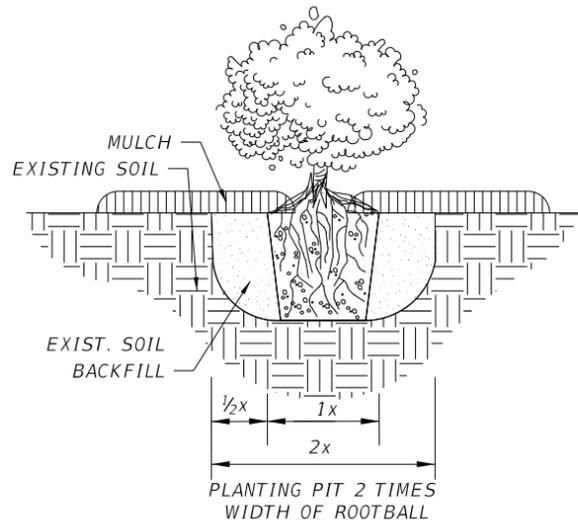
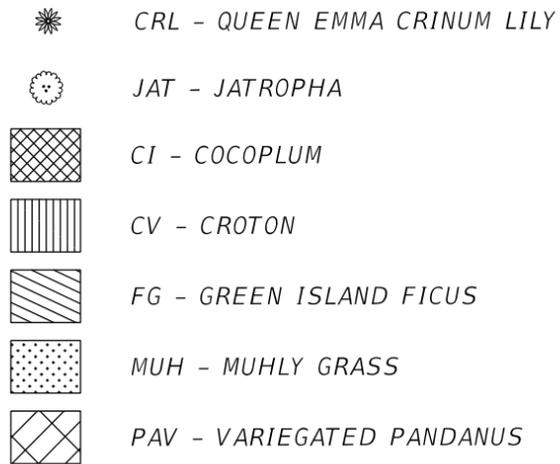
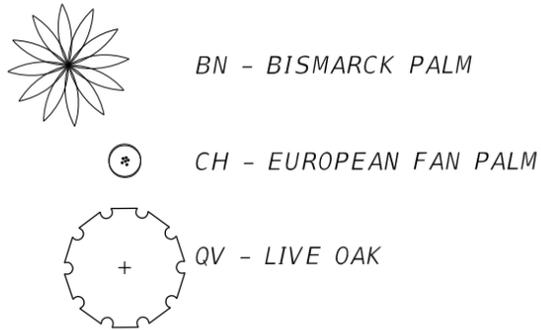
**LANDSCAPE PLAN (4)**

SHEET NO.
LD-8

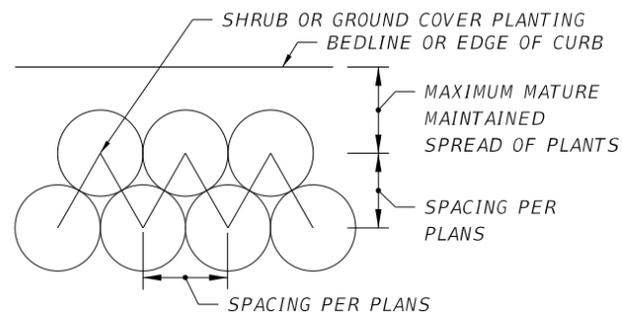
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

PROPOSED TREES AND PALMS

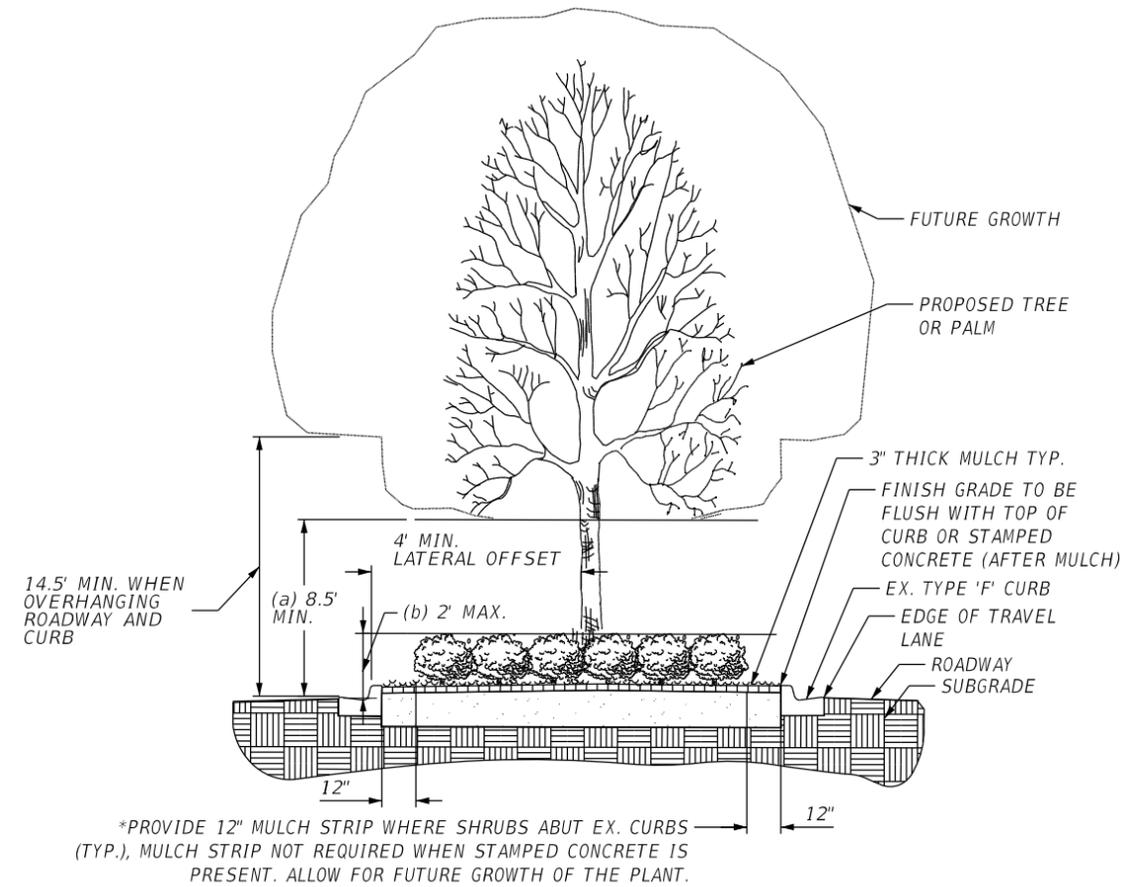
PROPOSED SHRUBS AND GROUNDCOVER



GROUND COVER/SHRUB PLANTING DETAIL  
NOT TO SCALE

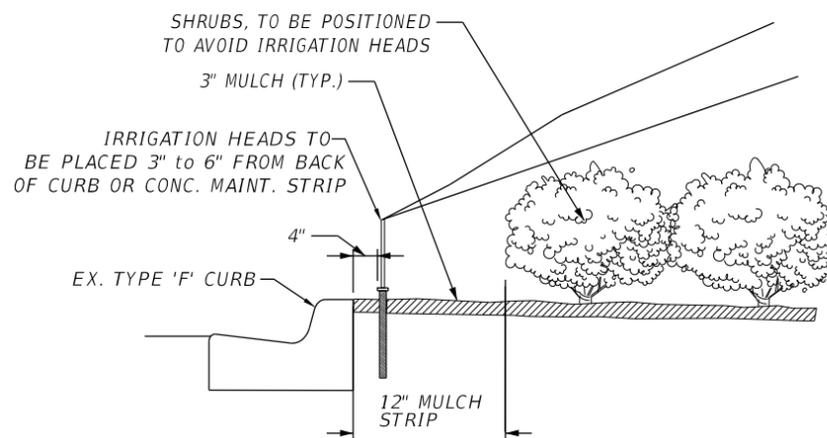


GROUND COVER/SHRUB LAYOUT DETAIL  
NOT TO SCALE

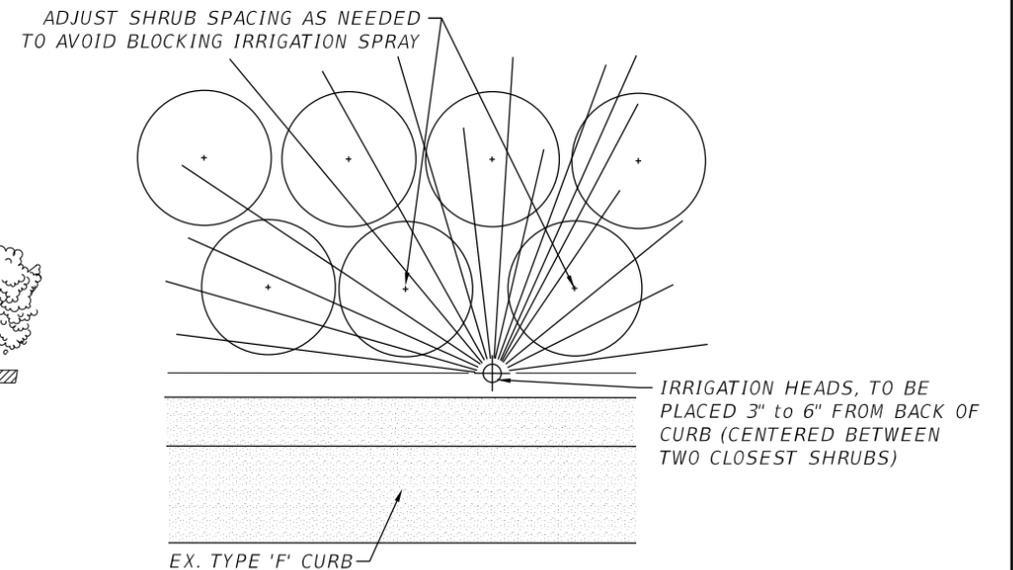


TYPICAL MEDIAN SECTIONS

NOT TO SCALE



SHRUB PLACEMENT/IRRIGATION HEAD DETAIL



NOT TO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

CITY OF PORT ST. LUCIE  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

LANDSCAPE DETAILS

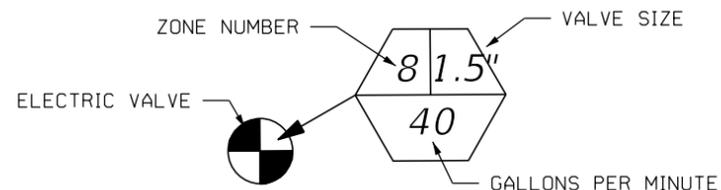
SHEET NO.

LD-9

**IRRIGATION LEGEND AND TABULATION OF QUANTITIES (PAY ITEM 590-70)**

SYMBOL	DESCRIPTION	UNIT	QUANTITY BY SHEET				TOTAL
			SAVONA		DARWIN		
			LD-12	LD-13	LD-14	LD-15	
◀	RAIN BIRD 1804-SAM-PRS BUBBLER EACH SYMBOL REPRESENTS TWO (2) RAIN BIRD 4.0IN. POP-UP HEADS WITH CHECK VALVE, PRESSURE REGULATOR, SWING JOINT, PURPLE CAP AND 1402 FLOOD BUBBLER NOZZLE	EA	28		22		50
◻	HUNTER MP1000 MAROON RAIN BIRD 1806-SAM-PRS-30 SHRUB ROTATOR 6IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON RAIN BIRD 1806-SAM-PRS-30 WITH PURPLE CAP, INSTALLED ON RISER	EA		14		14	28
◼	HUNTER MP1000 OLIVE RAIN BIRD 1806-SAM-PRS-30 SHRUB ROTATOR 6IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON RAIN BIRD 1806-SAM-PRS-30 WITH PURPLE CAP, INSTALLED ON RISER	EA		7		7	14
◉	HUNTER MP2000 BLACK RAIN BIRD 1806-SAM-P45 SHRUB ROTATOR 6IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 45 PSI, MP ROTATOR NOZZLE ON RAIN BIRD 1806-SAM-PRS-45 WITH PURPLE CAP, INSTALLED ON RISER	EA	8		8		16
◐	HUNTER MP2000 BLACK RAIN BIRD 1806-SAM-P45 SHRUB ROTATOR 6IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 45 PSI, MP ROTATOR NOZZLE ON RAIN BIRD 1806-SAM-PRS-45 WITH PURPLE CAP, INSTALLED ON RISER	EA	38		32		70
◑	RAIN BIRD PESB-R 1IN. PESB SERIES REMOTE CONTROL VALVE WITH PURPLE FLOW CONTROL HANDLE, WITH UNIONS, NIBCO T-113 GATE VALVE; ALL IN A CARSON 1220 JUMBO VALVE BOX WITH BOLT DOWN LID	EA	4	1	4	1	10
◻	RAIN BIRD ESP-8LXME WITH PEDESTAL 8 STATION, TRADITIONALLY-WIRED, COMMERCIAL CONTROLLER, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. GROUNDING GRID	EA		1		1	2
◻	SULLIVAN 5 HP PUMP AND 3' WELL IN STAINLESS STEEL ENCLOSURE	EA		1		1	2
◻	RAIN BIRD RAIN SENSOR RAIN/FREEZE CLIK SENSOR, POLE MOUNTED. ROUTE SENSOR WIRES TO CONTROLLER IN 1IN. SCH. 40 ELECTRICAL CONDUIT WITH LONG-RADII SWEEPS	EA		1		1	2
◻	ELECTRIC SERVICE POINT	EA	1		1		2
—	*IRRIGATION LATERAL LINE PVC CLASS 200 SDR 21 LATERAL WITH SCH. 40 SOLVENT-WELD PVC FITTINGS	LF	1,429	193	1,117	193	2,932
— — — —	*IRRIGATION MAINLINE HDPE PE4710 DR 11 WITH MAGNETIC TRACING TAPE INSTALLED 12" ABOVE MAINLINE	LF	300	339	236	255	1,130
— ● — — —	*4" HDPE DIRECTIONAL BORE	LF	37	239	52	254	582
— ● — — —	*2" HDPE DIRECTIONAL BORE	LF	86	239	132	254	711
— . . . — — —	*ELECTRICAL CONDUIT PVC SCHEDULE 40 WITH LONG-RADII SWEEPS	LF	314	339	249	263	1,165
— — — — —	*ELECTRIC SERVICE CONDUIT PVC SCHEDULE 40 WITH LONG-RADII SWEEPS	LF	224	25	120	32	401

\* PIPE LENGTHS, WIRE, AND DIRECTIONAL DRILLS BASED ON SCHEMATIC LAYOUT SHOWN IN THESE PLANS. ACTUAL QUANTITIES MAY VARY.



**VALVE LABEL DETAIL**

NOT TO SCALE

**SYSTEM DESIGN CRITERIA FOR LATERAL PIPE SIZES**

3/4"	0 - 8	GPM
1"	8 - 15	GPM
1-1/4"	15 - 22	GPM
1-1/2"	22 - 32	GPM
2"	32 - 50	GPM
3"	50 - 68	GPM
4"	68 - 120	GPM

ALL PIPE SHALL BE SIZED (BY THE CONTRACTOR) ACCORDING TO THE CRITERIA UNLESS SPECIFICALLY NOTED.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION  
TABULATION OF QUANTITIES**

SHEET NO.  
**LD-10**

**IRRIGATION GENERAL NOTES**

1. PORT ST. LUCIE UTILITIES HAS BEEN CONTACTED AND HAS DETERMINED THAT A REUSE CONNECTION COULD NOT BE USED WITHIN THE PROJECT LIMITS. THE CURRENT DESIGN USES A PUMP AND WELL AS THE WATER SOURCE AS REQUESTED BY THE CITY.
2. UTILIZE AND REFERENCE THE CITY OF PORT ST. LUCIE PUBLIC WORKS IRRIGATION STANDARDS 328400 (DATED OCTOBER 24, 2019) FOR SYSTEM APPLICATION, INSTALLATION, AND OPERATION. ANY APPLICABLE INFORMATION MISSING FROM THESE PLANS IS INCLUDED IN THE IRRIGATION SPECIFICATIONS AND THE TWO DOCUMENTS ARE MEANT TO BE USED TOGETHER.
3. THE CONSTRUCTION OF THE IRRIGATION SYSTEM REQUIRES THAT THE INSTALLER BECOME FAMILIAR, NOT ONLY WITH THE IRRIGATION TO BE ADDED, BUT ALSO WITH ALL EXISTING CONDITIONS AND CITY SPECIFICATIONS.
4. FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWINGS MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL, SOD AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR, WHICH ARE DEEMED, BY THE LANDSCAPE ARCHITECT AND/OR CITY, NOT TO BE IN CONFORMITY WITH THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERATION, CONTACT THE LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE FOR APPROVAL.
5. INSTALL (6") RISER MOUNTED RAIN BIRD 1806-SAM-PRS POP-UP SPRAY HEADS WITH MP ROTATOR NOZZLES WHEN THE SPRAY HEADS ARE LOCATED IN THE MIDDLE OF THE SHRUB BEDS. ADJUST THE HEIGHT OF THE RISER SO THAT THE SPRAY HEADS ARE NO MORE THAN 6" ABOVE THE SHRUBS TO ACCOUNT FOR FUTURE GROWTH.
6. INSTALL LOW VOLUME PRESSURE COMPENSATING BUBBLERS ON ALL PROPOSED TREES (SEE IRRIGATION TABULATION OF QUANTITIES FOR MODEL).
7. CHANGES IN HEAD PLACEMENT OR BUBBLER SUBSTITUTION SHALL ALWAYS BE COMPLETED TAKING INTO CONSIDERATION:
  - A. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF THE PLANT MATERIAL.
  - B. MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE.
  - C. THE SPACING BETWEEN HEADS SHALL NOT EXCEED 50% OF THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER OF HEADS SPACED ON A TRIANGULAR PATTERN.
8. POP-UP SPRINKLER HEADS SHALL BE INSTALLED:
  - A. A MINIMUM OF 3" AND A MAXIMUM OF 6" FROM THE EDGE OF THE CURB, STAMPED CONCRETE, OR SIDEWALK.
  - B. 18" FROM EDGE OF ROADWAY PAVEMENT (WHERE NO CURB EXISTS).
  - C. FLUSH WITH FINISH GRADE.
9. CONTROL WIRE TO BE UF, 600 VOLT, SOLID COPPER, DIRECT BURIAL #12 COMMON AND #12 CONTROL/HOT WIRE.
10. STAKE OUT THE LOCATION OF EACH RUN OF PIPE, HEADS AND VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES AND COMPACTED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE FULL LENGTH OF THE LINE. THE BOTTOM OF TRENCHES SHALL BE FREE OF ROCK OR OTHER SHARP-EDGED OBJECTS. MINIMUM DEPTHS OF COVER SHALL BE AS FOLLOWS: 36" FOR MAINLINE PIPING AND 24" FOR LATERAL PIPING 4" AND LARGER, AND 18" FOR LATERAL PIPING 3" AND SMALLER.
11. COMPLETE PRESSURE TESTING PER THE PSL IRRIGATION SPECIFICATIONS ONCE THE SOURCE HAS BEEN ESTABLISHED AND THE MAINLINE INSTALLATION HAS BEEN COMPLETED.
12. BACKFILL ON PVC LINE SHALL BE 6" MINIMUM THICK LAYER OF COURSE, CLEAN, SAND ABOVE, BELOW AND ON BOTH SIDES OF THE PIPE. THE REMAINDER OF THE BACKFILL MATERIAL CAN BE NATIVE MATERIAL AND SHALL BE LESS THAN 2" IN DIAMETER. ENSURE A MINIMUM OF 6" BACKFILL BETWEEN ADJACENT PIPES/CONDUIT. PLANT LOCATION SHALL TAKE PRECEDENCE OVER SPRINKLER AND PIPE LOCATIONS. COORDINATE THE PLACING OF TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.
13. THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE SPRINKLER EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. INSTALL IRRIGATION COMPONENTS AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOT BALLS, LIGHTS, SIGNS, FENCES, ETC., TO THE EXTENT POSSIBLE.
14. BEFORE SPRINKLER HEADS ARE SET, FLUSH THE LINES THOROUGHLY TO MAKE SURE THERE IS NO FOREIGN MATTER IN THE LINES. FLUSH THE MAIN LINES FROM THE DEAD-END FITTINGS FOR A MINIMUM OF FIVE MINUTES UNDER A FULL HEAD OF PRESSURE.
15. OPEN CUTS IN ASPHALT, WALKS AND/OR TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC.
16. DIRECTIONAL BORES BENEATH SIDEWALKS AND ROADWAY SHALL BE LOCATED BY THE IRRIGATION CONTRACTOR. SIZE BORES TWO TIMES LARGER THAN THE PIPE TO BE PLACED INSIDE THE BORE. DIRECTIONAL BORE MATERIAL TO BE HDPE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377



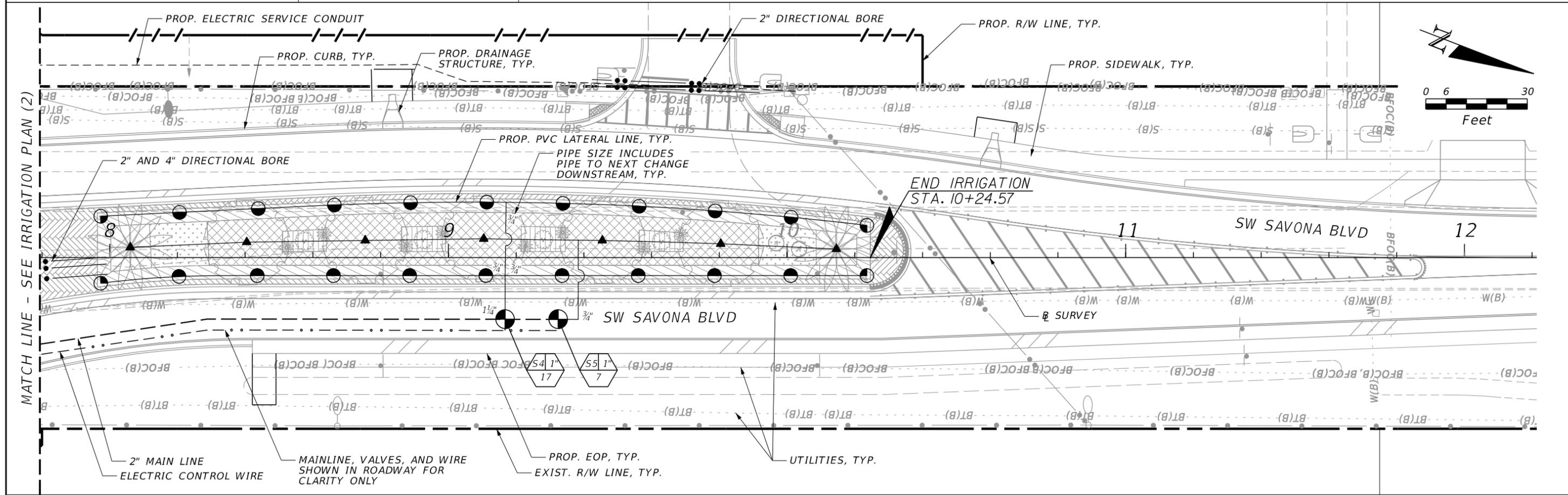
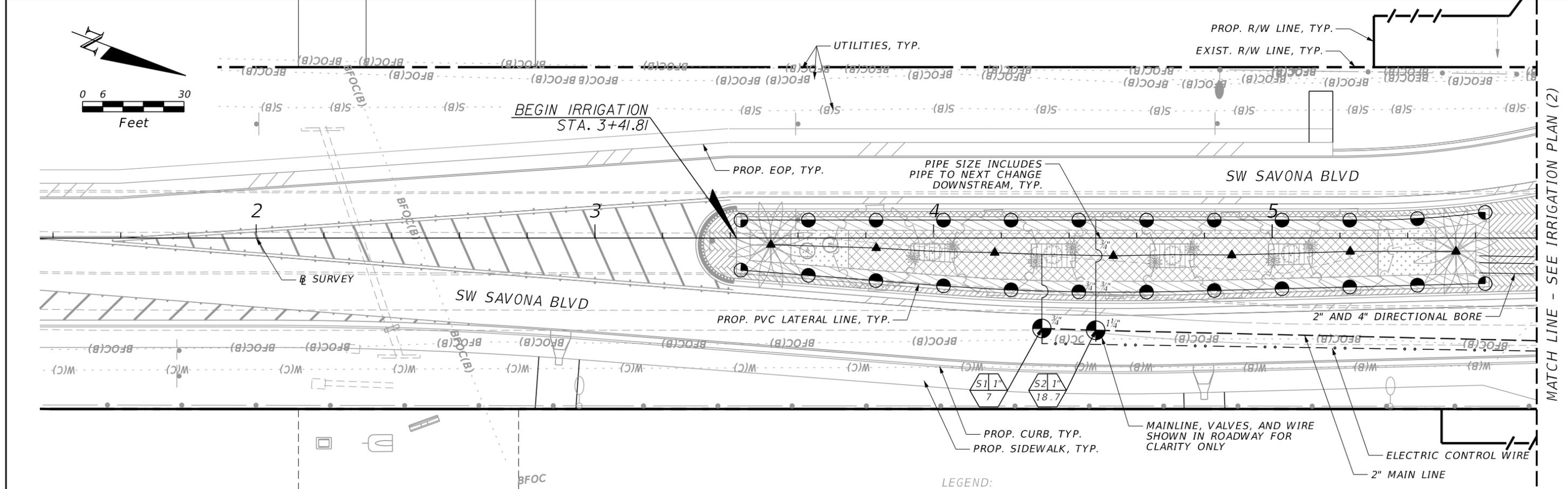
**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION NOTES**

SHEET NO.  
**LD-11**

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747-1377

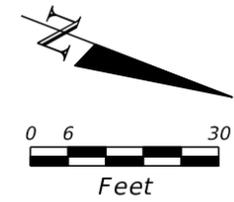
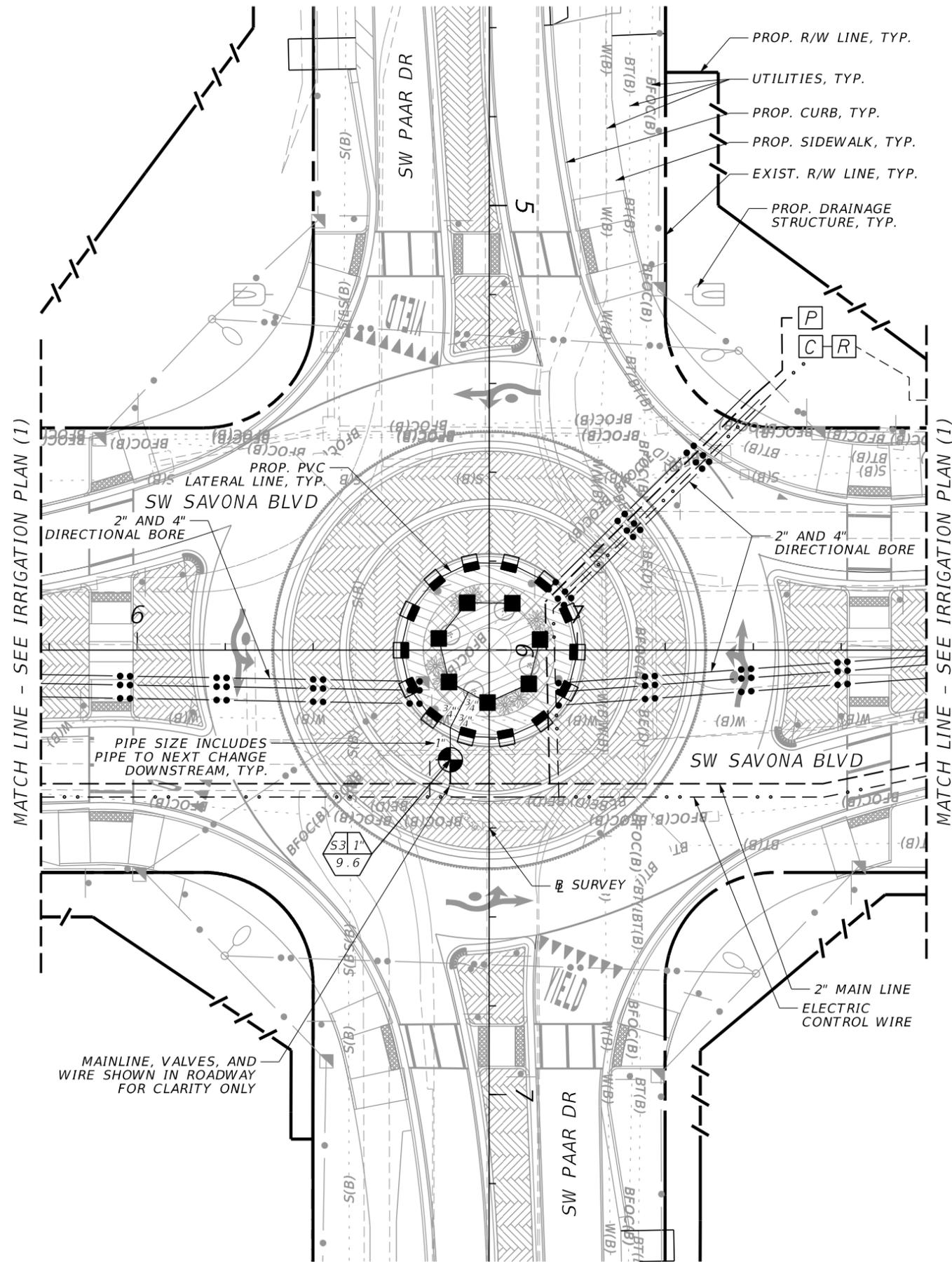
**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION PLAN (1)**

SHEET NO.  
LD-12

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



MATCH LINE - SEE IRRIGATION PLAN (1)

MATCH LINE - SEE IRRIGATION PLAN (1)

PROP. PVC LATERAL LINE, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

SW SAVONA BLVD

2" AND 4" DIRECTIONAL BORE

6

PIPE SIZE INCLUDES PIPE TO NEXT CHANGE DOWNSTREAM, TYP.

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

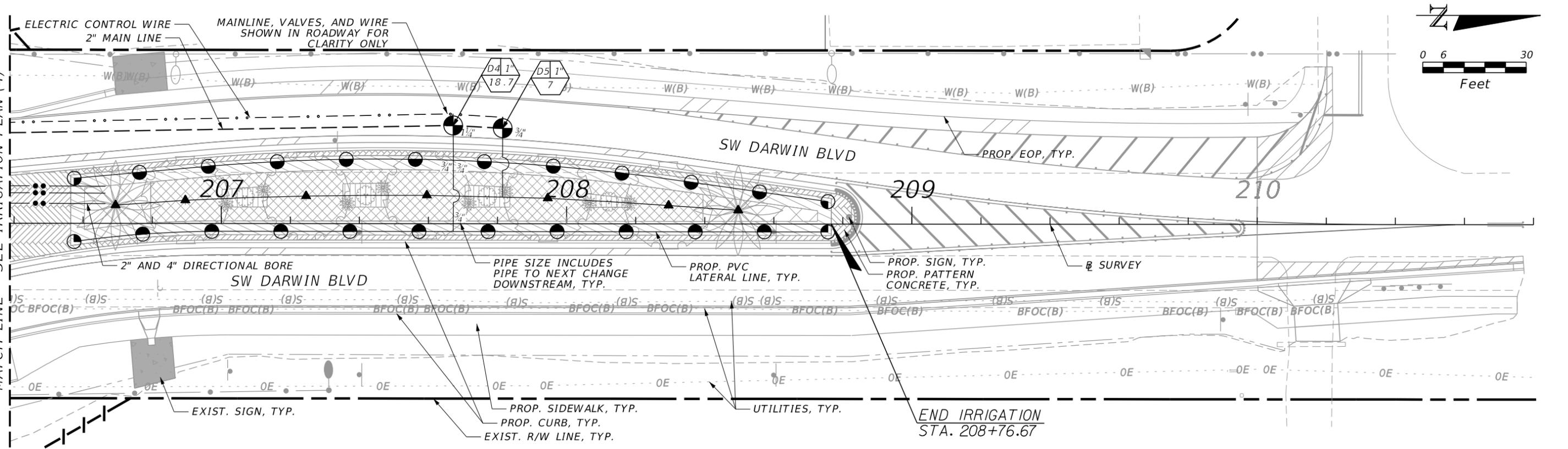
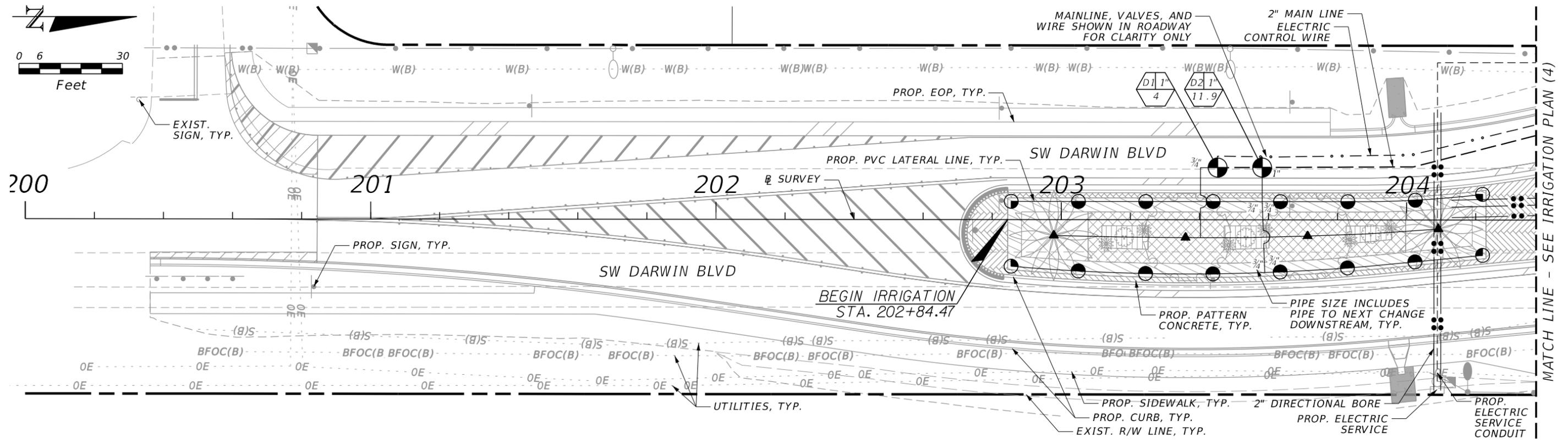
ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION PLAN (2)**

SHEET NO.  
LD-13

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

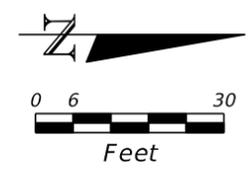
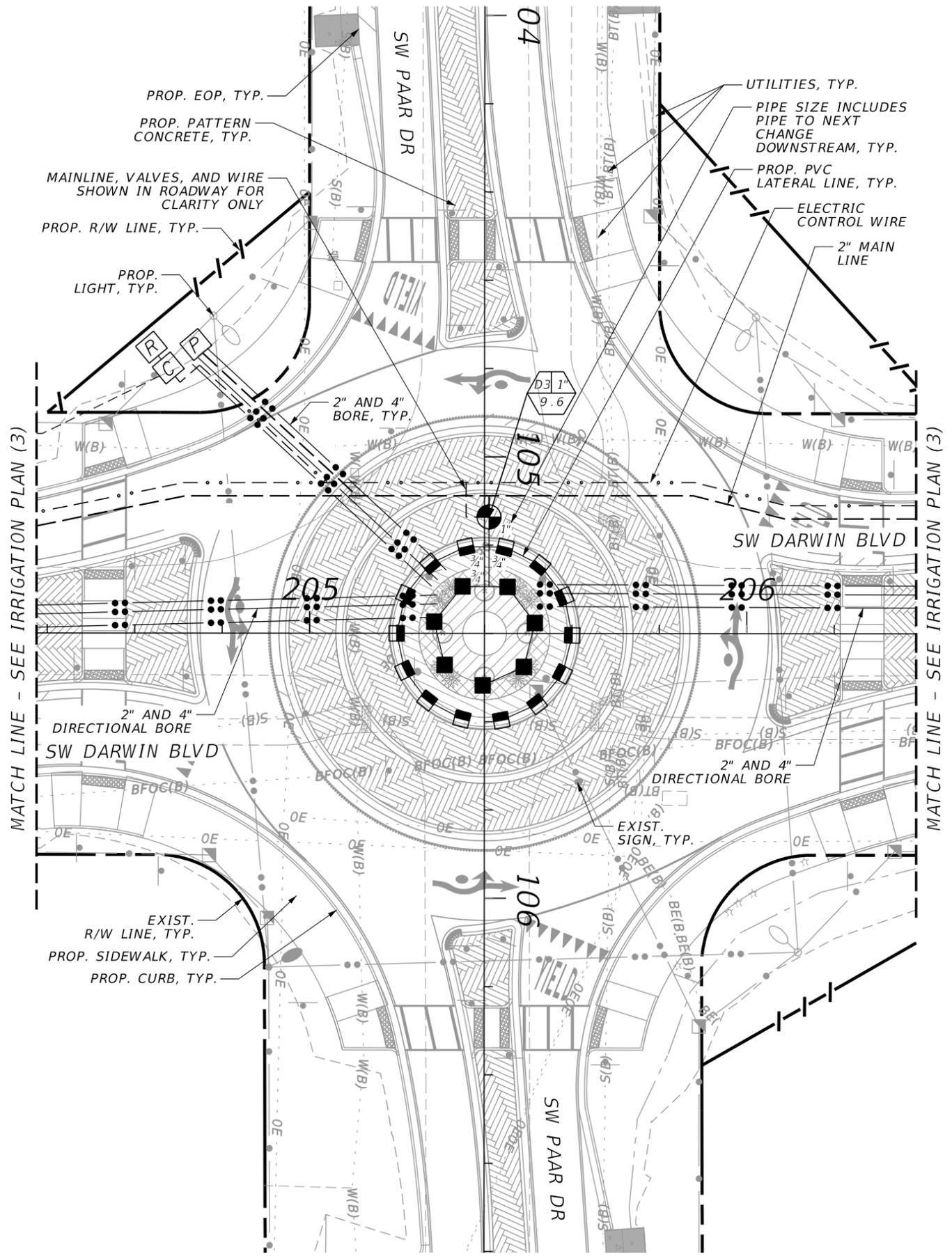
**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION PLAN (3)**

SHEET NO.  
LD-14

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



MATCH LINE - SEE IRRIGATION PLAN (3)

MATCH LINE - SEE IRRIGATION PLAN (3)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

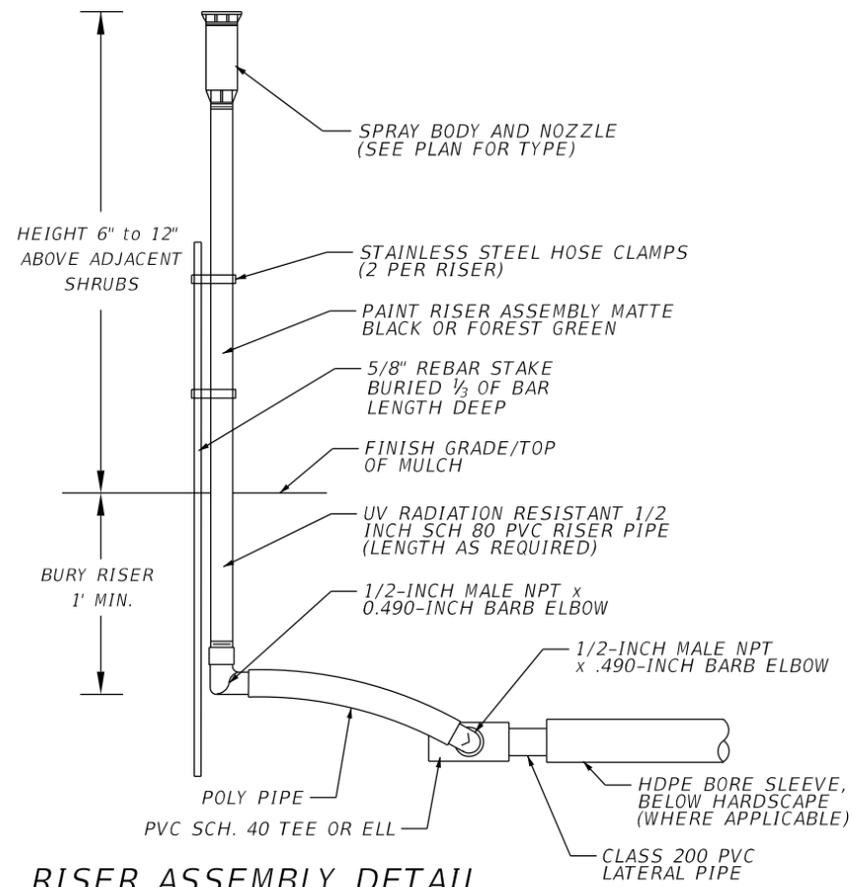
**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984		
ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION PLAN (4)**

SHEET NO.  
**LD-15**

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



**RISER ASSEMBLY DETAIL**

NOT TO SCALE

NOTE: UTILIZE THE LATEST CITY OF PORT ST. LUCIE PUBLIC WORKS IRRIGATION STANDARDS FOR APPLICABLE DETAILS NOT SHOWN ON THIS SHEET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

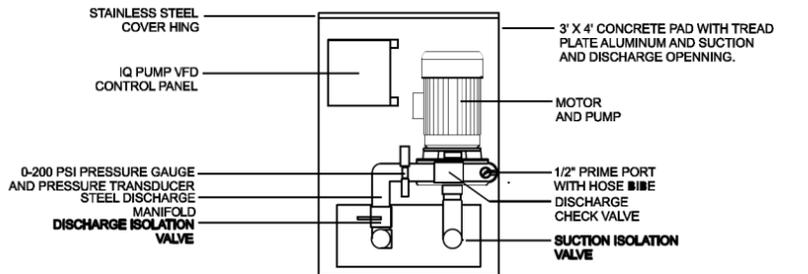
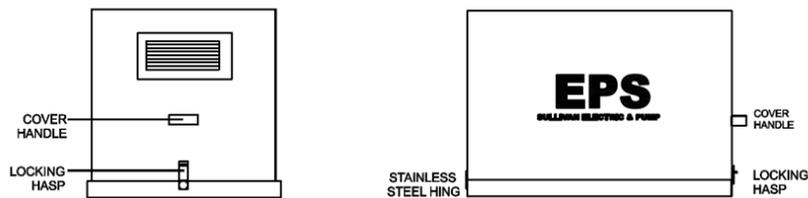
**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION DETAILS**

SHEET NO.  
**LD-16**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-II.001, F.A.C.



EFFICIENT PUMP SYSTEM AS MANUFACTURED  
 BY SULLIVAN ELECTRIC AND PUMP, INC.  
 PHONE (800) 991-2770

ONE (1) EFFICIENT PUMP SYSTEM AS MANUFACTURED  
 BY SULLIVAN ELECTRIC AND PUMP, INC.  
 MODEL #: EPS-IC-5-230-3-VFDC-30-175 ECON  
 GPM #0 @ TDH 175  
 OPERATING PRESSURE : 30  
 VOLTAGE : 230/120. MINIMUM #12 NEUTRAL CONDUCTOR MUST BE PULLED TO PUMP STATION.  
 PHASE: 3 OR 1  
 MINIMUM CIRCUIT AMPERAGE : 40 AMP  
 WATER SOURCE: WATER WELL  
 SUCTION: 2" STEEL TO PVC WELL DROP PIPE. TOTAL LENGTH #0'.  
 SUCTION CHECK VALVE: 2" FLG TO FLG SWING CHECK.  
 SUCTION MOTOR: 5 HP TEFC HIGH EFFICIENCY  
 PUMP: GOULDS 22#F 6 3/4" IMPELLER.  
 DISCHARGE MANIFOLD: 2" STEEL W/ PRESSURE GAUGE, PRIMING HOSE, PRESSURE TRANSDUCER.  
 FLOW METER: 220# BADGER TRANSDUCER 4-20MA INTO VFD  
 DISCHARGE VALVE: 2" VIC CONNECTED BUTTERFLY VALVE.  
 CONTROL PANEL: ETL LISTED TO UL 508A CONTROL PANEL WITH DISCONNECT, MOTOR FUSES,  
 CONTROL AND IRRIGATION CLOCK CIRCUIT BREAKER, VFD, DOOR VFD  
 OPERATOR, SURGE PROTECTIVE DEVICE AND NEMA 4X FIBERGLASS FAN  
 COOLED ENCLOSURE.  
 CONTROL METHOD: IQ PUMP VFD CLOCK START OR PRESSURE ON / NO FLOW OFF.

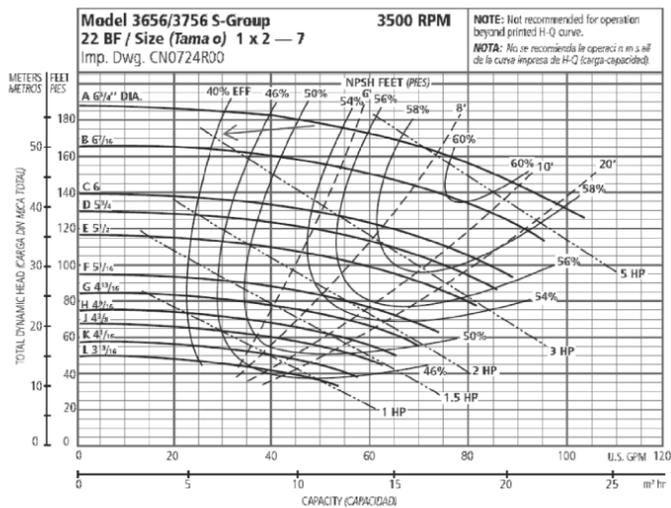
**SULLIVAN ELECTRIC AND PUMP, INC.**  
 1942 8TH AVENUE NORTH  
 561-588-5886  
 LAKE WORTH, FLORIDA  
 FLA. LIC. EC-0001117



**SULLIVAN ELECTRIC AND PUMP, INC.**  
 1942 8TH AVENUE NORTH  
 561-588-5886  
 LAKE WORTH, FLORIDA  
 FLA. LIC. EC-0001117

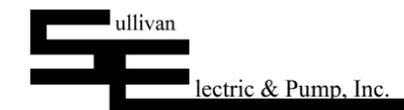
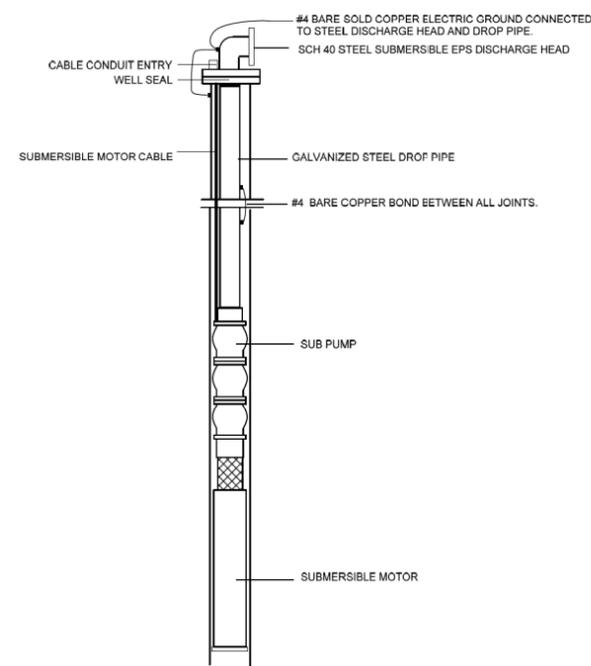
**SULLIVAN ELECTRIC AND PUMP - 5 HP PUMP STATION DETAIL**

NOT TO SCALE



Optional Impeller	
Ordering Code	Dia.
Código de pedido	Diá.
A	6 1/4"
B	6 7/16"
C	6"
D	5 3/4"
E	5 1/2"
F	5 1/4"
G	4 3/4"
H	4 3/8"
J	4 3/8"
K	4 1/4"
L	3 3/4"

NOTE: Pump will pass a sphere to 3/4" diameter.  
 NOTA: La bomba dejará pasar una esfera de hasta 3/4" de pulgada de diámetro.



**SUBMERSIBLE WELL PUMP DETAIL**

NOT TO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**Cotleur & Hearing**  
 AARON M. WILBUR, L.A. • L.A. No.: 6667229  
 1934 Commerce Lane, Ste. 1 • Jupiter, Florida 33458  
 (561) 747-6336 • Fax 747.1377

**CITY OF PORT ST. LUCIE**  
 121 S.W. PORT ST. LUCIE BLVD.  
 PORT ST. LUCIE, FL 34984

ROAD	COUNTY	CITY PROJECT NO.
SW PAAR DR.	ST. LUCIE	20240016

**IRRIGATION DETAILS**

SHEET NO.  
 LD-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-II.001, F.A.C.