

COMPONENTS OF CONTRACT PLANS SET

100% LANDSCAPE
AND IRRIGATION PLANS

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GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY 2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS
Florida Department of Transportation, January 2022 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/Specbooks>

Lane closures to be coordinated with Lee County Department of Transportation staff.

UTILITIES PROVIDING SERVICE:

WATER/SEWER:
LEE COUNTY UTILITIES
1500 MONROE STREET
FORT MYERS, FLORIDA 33901
PHONE: (239) 533-6161

FIRE DISTRICT:
SAN CARLOS PARK FIRE DISTRICT
16901 ISLAND PARK ROAD
FORT MYERS, FLORIDA 33913
PHONE: (239) 267-7525

GAS:
TECO PEOPLES GAS
5901 ENTERPRISE PARKWAY
FORT MYERS, FLORIDA 33905
PHONE: (877) 832-6747

TRASH COLLECTION:
WASTE PRO
13110 RICKENBACKER PARKWAY
FORT MYERS, FLORIDA 33913
PHONE: (239) 337-0800

CABLEVISION:
COMCAST
12641 CORPORATE LAKES DRIVE
FORT MYERS, FLORIDA 33913
PHONE: (800) 266-2278

ELECTRIC:
FLORIDA POWER & LIGHT COMPANY
15834 WINKLER ROAD
FORT MYERS, FLORIDA 33908
PHONE: (239) 415-1326

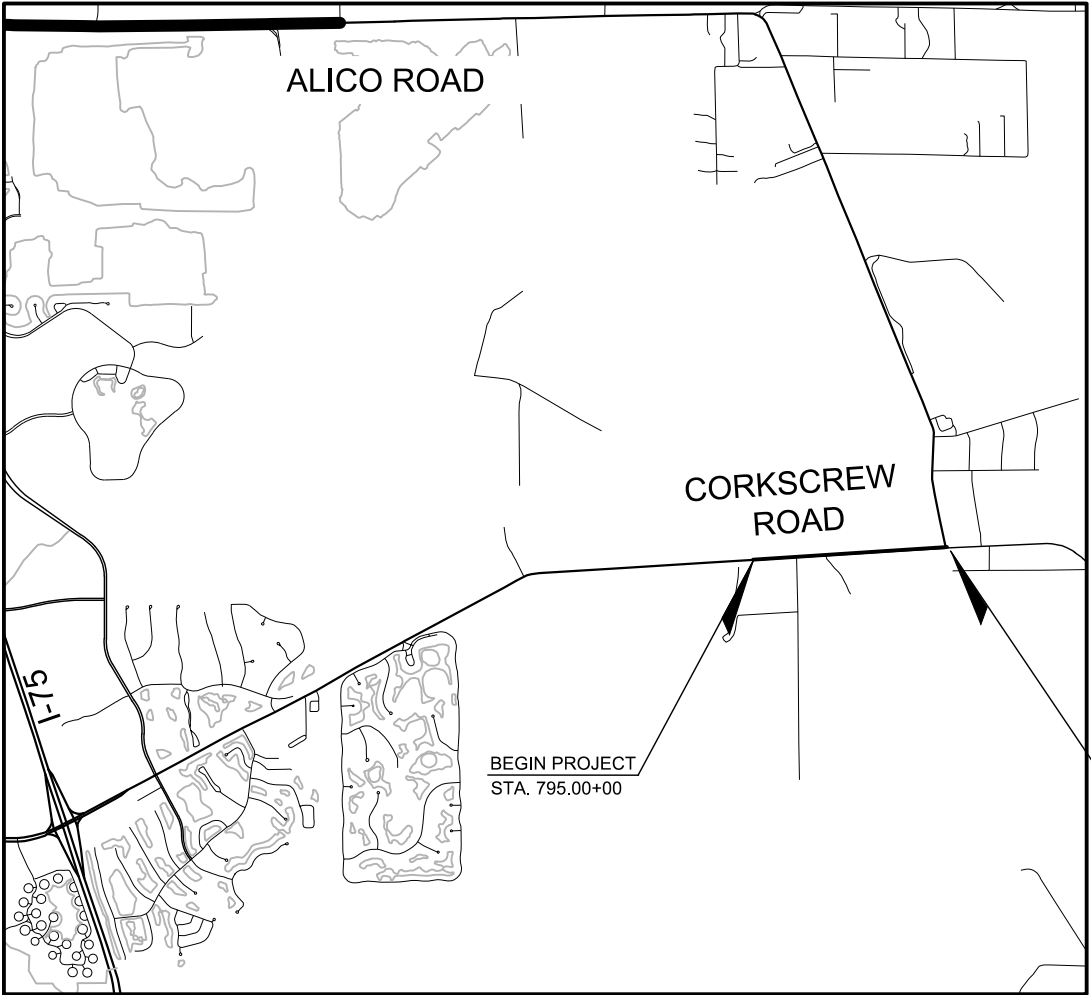
TELEPHONE:
CENTURY LINK
1520 LEE STREET
FORT MYERS, FLORIDA 33901
PHONE: (239) 336-2030

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

PRELIMINARY PLANS OF PROPOSED
CORKSCREW ROAD WIDENING PHASE 2
LANDSCAPE AND IRRIGATION PLANS
(1.25 MILES)

BELLA TERRA BOULEVARD TO ALICO ROAD

DESIGN SPEED 45 MPH
COUNTY ROAD NO. 850



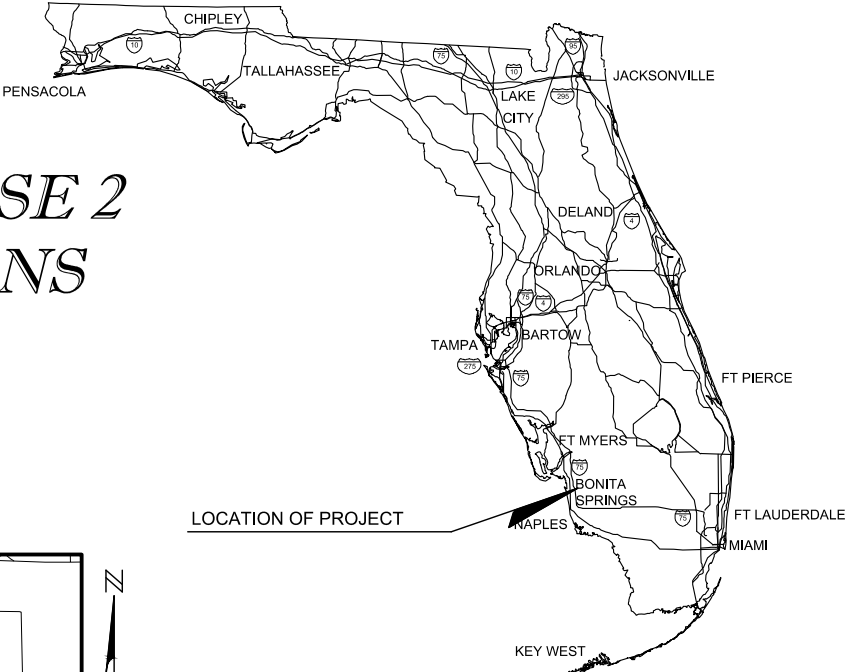
LOCATION MAP



(INTENDED DISPLAY SCALE: 1"=1 mi)

LCDOT PROJECT MANAGER: DAVID M. MURPHY, P.E.

JANUARY 2023



LOCATION OF PROJECT

NOTICE TO ALL
CONTRACTORS

IT'S THE LAW IN FLORIDA
2 BUSINESS DAYS BEFORE
YOU DIG
CALL SUNSHINE
1-800-432-4770

STATE, COUNTIES & CITIES
ARE "NOT" PART OF THE
ONE CALL SYSTEM.THEY
MUST BE CALLED
INDIVIDUALLY.

PLANS PRODUCED FOR:



SOUTHWEST
FLORIDA

DEPARTMENT
of
TRANSPORTATION

PUBLIC WORKS ADMINISTRATION

BEGIN PROJECT
STA. 795.00+00

END PROJECT
STA. 876+50

JOHNSON
ENGINEERING

REGISTERED LANDSCAPE ARCHITECT
FLORIDA LICENSE NO. LA-6667059

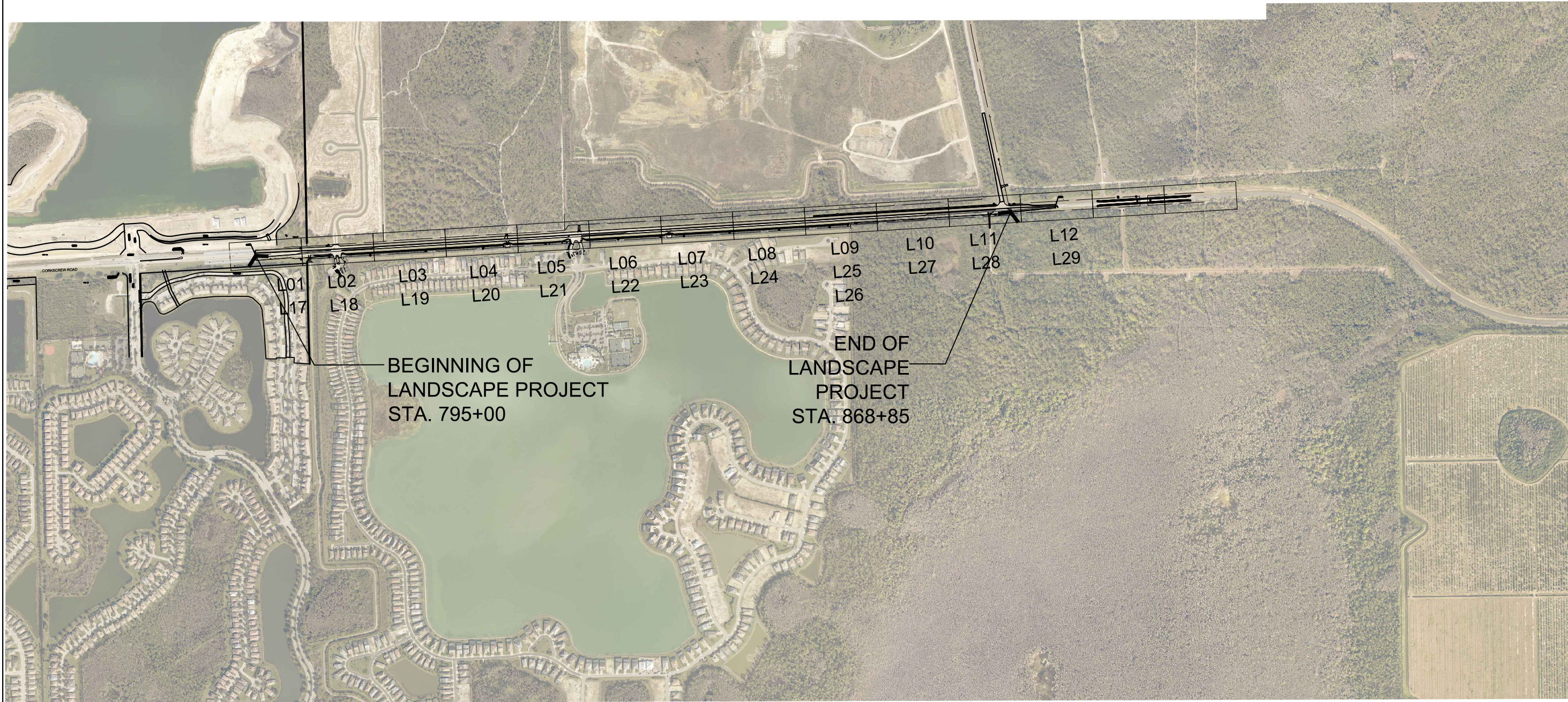
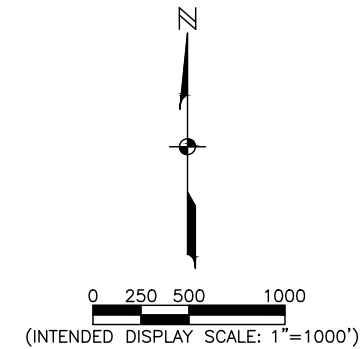
JEFFREY NAGLE, RLA

DATE

2122 JOHNSON STREET
P.O. BOX 1550
FORT MYERS, FLORIDA 33902-1550
PHONE (239) 334-0046
FAX (239) 334-3661
E.B. #642 & L.B. #642

SHEET

C01



REVISIONS				<div>JOHNSON</div> <div>ENGINEERING</div> <div>2122 JOHNSON STREET</div> <div>FORT MYERS, FL 33901</div> <div>EB 642 & LB 642</div> <div>RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			KEY SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX	STA795+00 TO STA. 868+85	KEY

GENERAL NOTES

1. GOVERNING SPECIFICATIONS:
THE MOST CURRENT EDITION OF FLORIDA DEPARTMENT OF TRANSPORTATION, DIVISION II AND III OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM DESIGN STANDARDS FOR CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" (AKA GREENBOOK).
2. ANY PUBLIC LAND CORNER WITHIN THE ROADWAY LIMITS IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE LEE COUNTY D.O.T. PROJECT MANAGER WITHOUT DELAY.
3. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
4. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY COORDINATION.
5. ALL WORK PERFORMED WITHIN LEE COUNTY PROJECT LIMITS PROPERTY SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF:
A. FDOT STANDARD PLANS
B. FDOT DESIGN MANUAL (FDM)
6. ALL AREAS IN THE PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, COMPACTED, SODDED (SOD SPECIES OUTSIDE OF TRAVELED WAY & WITHIN RIGHT OF WAY DISTURBANCE SHALL MATCH EXISTING DEVELOPMENT SOD SPECIES FOR CORKSCREW SHORES AND PANTHER RUN, ALL OTHER SOD SHALL BE SAND GROWN ARGENTINE BAHIA –PASPALUM NOTATUM 'ARGENTINE'), ROLLED AND WATERED IN CONFORMANCE WITH THE FDOT STANDARD PLANS.
7. EXISTING SITE GRADING AND DRAINAGE FLOWS SHALL NOT BE ALTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY GRADING OR STRUCTURE REPAIR TO A PRE–EXISTING CONDITION AS A RESULT OF HIS/HER WORK RELATES TO THE LANDSCAPE AND IRRIGATION INSTALLATION FOR THIS PROJECT.
8. ALL EXISTING TRAFFIC SIGNS AND PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE FDOT STANDARD PLANS..
9. MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE INDICES OF THE FDOT STANDARD PLANS, ACCORDING TO THE TYPE OF ROADWAY AND THE TYPE OF WORK BEING PERFORMED.
10. MAINTENANCE OF TRAFFIC PLAN MUST INCLUDE FDOT STANDARD PLANS, PEDESTRIAN CONTROL CLOSURE OF SIDEWALKS.
11. LEE COUNTY D.O.T. DOES NOT CERTIFY THE LOCATION OR EXISTENCE OF ANY UNDERGROUND UTILITIES, NOR AS TO THE SOIL OR GROUND CONDITIONS, AND ASSUMES NO LIABILITY FOR SUCH. THE LOCATION OF UNDERGROUND UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE WORKING IN AN AREA, THE CONTRACTOR SHALL GUARANTEE THAT ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED.
12. THE CONTRACTOR SHALL CONDUCT SITE INVESTIGATIONS TO SATISFY HIM/HERSELF WITH THE EXISTING TOPOGRAPHY AND GENERAL CONDITION OF THE AREA OF WORK. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIM/HERSELF WITH THE AVAILABLE INFORMATION AND FIELD CONDITIONS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ESTIMATING PROPERTY DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK.
13. THE LEE COUNTY D.O.T. PROJECT MANAGER SHALL BE CONSULTED TO MAKE ANY REQUIRED INTERPRETATIONS OF THE PLANS. HOWEVER, THIS IN NO WAY RELIEVES THE CONTRACTOR OF HIS/HER RESPONSIBILITY FOR CONSTRUCTING THE PROJECT IN ACCORDANCE WITH THE INTENT OF THE PLANS. THE CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS FOR SCOPE OF WORK.
14. THE QUANTITIES AS PROVIDED IN THE SUMMARY OF ESTIMATED QUANTITIES ARE APPROXIMATE ONLY AND NO CLAIM SHALL BE MADE AGAINST LEE COUNTY D.O.T. FOR ANY EXCESS OR DEFICIENCY. ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LEE COUNTY D.O.T. PROJECT MANAGER PRIOR TO COMPLETION OF WORK. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE LEE COUNTY D.O.T. PROJECT MANAGER. EACH ITEM LISTED IN SUMMARY OF ESTIMATED QUANTITIES IS TO INCLUDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE ITEM. PAYMENT FOR CONTRACT ITEMS WILL BE BASED ON ACTUAL FIELD (IN–PLACE) MEASUREMENTS OF THE COMPLETED ITEMS, READY FOR SERVICE AND ACCEPTED BY THE LEE COUNTY D.O.T. PROJECT MANAGER.
15. REQUIRED WORK NOT ITEMIZED UNDER SUMMARY OF ESTIMATED QUANTITIES OR SPECIAL PROVISIONS SHALL BE INCIDENTAL TO THE CONTRACT.
16. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, INCLUDING TEMPORARY PAVEMENT MARKING AND SIGNAGE, IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 2009 (MUTCD) WITH REVISIONS 1 AND 2, MAY 2012, OR MOST RECENT EDITION, AND THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS.
17. THE CONTRACTOR SHALL PREVENT THE TRANSPORT OF SEDIMENT, DUST, AND DEBRIS FROM THE CONSTRUCTION SITE USING COMMONLY ACCEPTED METHODS INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF BALED HAY OR STRAW BARRIERS, SEDIMENTATION BASINS WITH TEMPORARY SWALES, SILT BARRIERS, WIND FENCING, AND/OR TRASH RETAINERS IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OR AS DIRECTED BY THE LEE COUNTY D.O.T. PROJECT MANAGER. THE CONTRACTOR SHALL PROVIDED ALL NECESSARY EROSION AND SEDIMENT CONTROL PRIOR TO ANY CONSTRUCTION, IN COMPLIANCE WITH FDOT'S EROSION AND SEDIMENT CONTROL MANUAL AND STANDARD SPECIFICATIONS SECTION 104. THE CONTRACTOR SHALL ALSO MAINTAIN THE COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT EROSION CONTROL MEASURES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND PRESERVING ALL VERIFIED WETLAND BOUNDARIES AND BUFFER AREAS ON THE SITE PRIOR TO INITIAL ACTIVITIES. THE EXISTING DELINEATION OF THESE AREAS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND BE READILY DISCERNIBLE TO CONSTRUCTION PERSONNEL.
19. ALL WORK PERFORMED SHALL COMPLY WITH ALL APPLICABLE REGULATIONS AND THE ORDINANCES OF THE VARIOUS GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE WORK PERFORMED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PENALTIES/FINES LEVIED DUE TO WORK THAT IS NOT IN ACCORDANCE WITH PERMIT CONDITIONS.

20. THE CONTRACTOR SHALL REMOVE OBJECTIONABLE SUB–SURFACE OBJECTS THAT INTERFERE WITH THE LANDSCAPE AND IRRIGATION INSTALLATION TO A MINIMUM DEPTH OF FOUR (4) FEET BELOW GRADE, OR AS OTHERWISE DIRECTED BY THE COUNTY D.O.T. PROJECT MANAGER OR PLANS. OBJECTIONABLE MATERIALS TO BE REMOVED, SHALL BE DISPOSED OF AS DIRECTED BY THE LEE COUNTY D.O.T. PROJECT MANAGER. ALL MATERIALS NOT CLAIMED BY LEE COUNTY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. EXCESS MATERIALS RESULTING FROM EXCAVATION SHALL BE REMOVED BY THE CONTRACTOR AT CONTRACTOR'S COST UNLESS OTHERWISE INDICATED BY THE LEE COUNTY D.O.T. PROJECT MANAGER.
21. THE CONTRACTOR SHALL NOT REMOVE EXISTING TREES LOCATED WITHIN THE PROPERTY AND SLOPE EASEMENTS THAT ARE IN CONFLICT WITH THE IMPROVEMENTS UNLESS OTHERWISE INDICATED ON THE PLANS OR AS SPECIFIED BY THE LEE COUNTY D.O.T. PROJECT MANAGER.
22. ALL EXISTING FENCES, SHRUBBERY, SPRINKLERS, ETC. LOCATED WITHIN THE ROADWAY LIMITS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE LEE COUNTY D.O.T. PROJECT MANAGER. THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER 96 HOURS PRIOR TO CLEARING AND GRUBBING EXISTING SPRINKLER SYSTEMS, SIGNS, OR LANDSCAPING TO BE REMOVED WITHIN THE PROJECT LIMITS.
23. ANY MAILBOX WITHIN THE ROADWAY LIMITS IS TO REMAIN. REMOVAL AND RELOCATION OF MAILBOXES IS INCIDENTAL TO THE CONTRACT. REPLACEMENT OF MAILBOXES DAMAGED DURING REMOVAL AND RELOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INSTALLED IN COMPLIANCE WITH THE UNITED STATES POSTAL REQUIREMENTS.
24. COMPACTION REQUIREMENTS SHALL CONFORM TO SECTIONS 120 AND 125 OF THE FDOT STANDARD SPECIFICATIONS UNLESS OTHERWISE PROVIDED FOR IN THE PLANS AND SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
25. ANY EXISTING PAVEMENT THAT IS TO BE REMOVED MUST BE SAW–CUT PRIOR TO REMOVAL. WHERE CONNECTIONS TO EXISTING WALKS AND DRIVES ARE NOT INDICATED ON THE PLANS, PROPER CONNECTIONS SHALL BE MADE A.D.A. COMPLIANT WHERE REQUIRED AND AT THE DIRECTION OF THE LEE COUNTY D.O.T. PROJECT MANAGER.
26. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIRED TO MEET THE REQUIREMENTS OF THE "TRENCH SAFETY ACT" AND NOT TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING AND BRANCHING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING AND BRACING IS REQUIRED.
27. NO SOIL MATERIAL SHALL BE APPLIED TO OR COVER ANY MANHOLE COVERS, FRAMES, VALVE BOXES, GAS DROPS, ETC.
28. ALL EXISITING AND PROPOSED UTILITY AND STORM SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN UNFENCED AREAS SUBJECT TO VEHICULAR, BICYCLE OR PEDESTRIAN TRAFFIC SHALL BE ADJUSTED IF NECESSARY TO COMPLETE THE LANDSCAPE AND IRRIGATION INSTALLATION FOR THIS PROJECT SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE NO MORE THAN ONE QUARTER INCH ABOVE THE FINISHED GRADE. WHERE SODDING IS APPLIED "FINISHED GRADE" SHALL BE THE NOMINAL HEIGHT OF GRASS AFTER SOD IS FIRMLY PLACED. THIS NOTE DOES NOT APPLY TO THOSE ON TRAVEL LANES, BICYCLE FACILITIES OR SIDEWALKS.
29. ALL STATIONS AND OFFSETS REFER TO THE CENTER LINE OF CONSTRUCTION UNLESS OTHERWISE NOTED. DIMENSIONS REFER TO THE EDGE OR PAVEMENT (E/P) UNLESS OTHERWISE NOTED.
30. ALL EXISTING STRUCTURES AND STORMWATER FACILITIES LOCATED WITHIN THE PROJECT LIMITS SHALL BE CLEANED PRIOR TO ACCEPTANCE OF CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY AS WELL AS THE LEE COUNTY D.O.T. PROJECT MANAGER IN WRITING 14 DAYS IN ADVANCE OF ANY LANE CLOSURED OR RESTRICTIONS, AND AGAIN 24 HOUSE IN ADVANCE.
31. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC PLAN TO LEE COUNTY D.O.T. DIVISION FOR APPROVAL AND SHALL NOT COMMENCE CONSTRUCTION PRIOR TO THE APPROVAL OF THE MAINTENANCE OF TRAFFIC PLANS.
32. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING COPIES OF ALL REQUIRED MANUALS, MUTCD, FDOT STANDARD PLANS, OR OTHER RELATED DOCUMENTS, SO TO BECOME FAMILIAR WITH THEIR REQUIREMENTS. STRICT ADHERENCE TO THE REQUIREMENTS OF THE MAINTENANCE OF TRAFFIC ('MOT') POLICY WILL BE ENFORCED UNDER THIS CONTRACT. IF MOT IS REQUIRED, MOT IS TO BE PROVIDED WITHIN TEN (10) DAYS OF RECEIPT OF NOTICE OF AWARD.
33. THE CONTRACTOR SHALL NOT, DURING OR AFTER CONSTRUCTION, INTRODUCE ANY FORM OF UNPERMITTED STORMWATER DISCHARGE INTO THE RIGHT–OF–WAY EASEMENTS.
34. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND COMPLY WITH ALL APPLICABLE STATE AND/OR COUNTY ORDINANCE AND PERMITS.
35. ALL MATERIALS USED INSIDE THE PROPERTY SHOULD BE APPROVED PRIOR TO PLACEMENT ON LEE COUNTY PROPERTY. DELIVERY TICKETS OF THE MATERIALS SHALL BE PROVIDED TO LEE COUNTY D.O.T. PROJECT MANAGER.
36. THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS BEFORE CONSTRUCTION BEGINS. ALL CONFLICTING UTILITIES MUST BE ADJUSTED AT THE CONTRACTOR'S EXPENSE. A SEPARATE UTILITY PERMIT MAY BE REQUIRED TO BE OBTAINED FOR ANY UTILITY WORK OR DIRECTIONAL BORE WITHIN ROADWAY LIMITS.

NOTICE TO ALL CONTRACTORS

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INDIVIDUALLY.

REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		G—01
					C.R. 850		XXXX		

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM.	DESCRIPTION	SIZE	UNIT	MEDIAN NUMBERS			TOTAL ALL MEDIANS
					MEDIAN #11	MEDIAN #12	MEDIAN #13	
					L-01 - L-05	L-05 - L-11	L-11 - L-12	
		TREES						
A-1	LX	LAGERSTROEMIA X 'MUSKOGEE' - MUSKOGEE CRAPE MYRTLE	10' HT, 4' SPRD., MULTI-TRUNK	EA	6	0	0	6
A-2	LX2	LAGERSTROEMIA X 'NATCHEZ' - NATCHEZ CRAPE MYRTLE	10' HT, 4' SPRD., MULTI-TRUNK	EA	8	0	0	8
A-3	PE	PINUS ELLIOTI 'DENSEA' - SOUTH FLORIDA SLASH PINE	11', 13', 14',15' & 16' HTS, 2-3' SPR, 2" CAL.	EA	20	52	0	72
A-4	QV	QUERCUS VIRGINIANA 'CATHEDRAL' - CATHEDRAL LIVE OAK	12'-14' HT, 5.5' SPR, 3.5" CAL, 36" MIN. B&B DIA.	EA	0	17	0	17
		TOTAL TREES			34	69	0	103
		PALMS						
A-5	SP	SABAL PALMETTO - SABAL PALM	14', 16', & 18' CT., BOOTED	EA	34	32	0	66
A-6	VM	VEITCHIA ARECINA- MONTGOMERY PALM	12' CT., 5 FROND MIN.	EA	6	12	0	18
		TOTAL PALMS			40	44	0	84
		SHRUBS						
A-7	HP	HAMELIA PATENS - FIREBUSH	24" HT, 36" O.C.	EA	226	0	0	226
A-8	TD	TRIPSACUM DACTYLOIDES- FAKAHATCHEE GRASS	24" HT, AS SHOWN O.C.	EA	0	205	0	205
		TOTAL SHRUBS			226	205	0	431
		GROUND COVER						
A-9	AG	ARACHIS GLABRATA- PERENNIAL PEANUT	1 GAL.	EA	0	0	146	146
A-10	BA	PASPALUM NOTATUM- BAHIA SOD (SHEE SHEET G-01, NOTE 6)	SOD	SY	639	1543	0	2182
		MULCH						
A-11	MU	MINI PINE BARK NUGGETS	3" DEPTH	CY	105	158	2	265
		SITE WORK						
C-1	PSP	PLANTING SOIL PREP (medians only) includes herbicide, sod removal, fertilizer, tilling, final grading, soil testing and any necessary soil amendment.		SY	1252	1,889	16	3157
C-2	RB	ROOT BARRIER	24" Depth	LF	0	2,028	0	2,028
C-3	MA	1 YR. IRRIGATION AND LANDSCAPE MAINTENANCE	TO BE CONCURRENT WITH THE WARRANTY PERIOD	MONTH				12

- NOTES:
- ALL SIZES SPECIFIED ARE MINIMUM ACCEPTABLE SIZES AT TIME OF INSTALLATION. NONE ARE OPTIONAL.
 - TREES SHALL HAVE STRAIGHT TRUNKS.
 - SABAL PALMS SHALL HAVE A MINIMUM 15" DIAMETER TRUNK WITH BOOTS LEFT IN THEIR NATURAL CONDITION.
 - LOCATION AND ORIENTATION OF SABALS SHALL BE DETERMINED IN THE FIELD PER THE DIRECTION OF LEE COUNTY DEPARTMENT OF TRANSPORTATION OR THE LANDSCAPE ARCHITECT.
 - TREES SHALL BE MATCHED (APPEARANCE AND QUALITY), UNLESS OTHERWISE NOTED ON PLANS.
 - CONTAINER TREES MAY BE SUBSTITUTED FOR FIELD GROWN AND VISA VERSA.
 - EVERY EFFORT SHOULD BE MADE BY THE CONTRACTOR TO USE TREES GROWN FROM A LOCAL SEED SOURCE.
 - ALL TREES SHALL BE FLORIDA #1 GRADE OR BETTER, AS DETERMINED BY FLORIDA GRADES AND STANDARDS.
 - SEED SOURCE FOR SOUTH FLORIDA SLASH PINE SHALL BE CERTIFIED IN WRITING BY THE GROWER AS BEING TRUE TO GENUS, SPECIES, AND VARIETY.

REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			LANDSCAPE TABULATION	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		
									T-01

IRRIGATION TABULATION OF QUANTITIES							
PAY ITEM NO.	SYM.	DESCRIPTION	UNIT	MEDIAN NUMBERS			TOTAL THIS SHEET
				MEDIAN #11	MEDIAN #12	MEDIAN #13	
				L17 - L-21 PLAN	L-21 - L-28 PLAN	L-28 - L-29 PLAN	
B-1	WP	10 HP 6" SUBMERSIBLE PUMP AS NOTED IN TECHNICAL SPECIFICATIONS	LS	0	1	0	1
B-2	ES	ELECTRICAL SERVICE	LS	0	1	0	1
B-3	EC	FURNISH MATERIALS AND MAKE ALL NECESSARY CONNECTIONS FOR CONTROLLER INSTALLATION AND OPERATION. GENERAL CONTRACTOR TO PROVIDE DEDICATED ELECTRICAL POWER IN CONDUIT TO CONTROLLER AND PUMP LOCATION (IF APPLICABLE) , AND PROVIDE DIRECT WIRING BY ELECTRICAL CONTRACTOR.	LS	0	1	0	1
		CONTROLLER AND WIRING					
B-4	C	HUNTER ACC-99D CONTROLLER WITH ACC-COM-LTE COMMUNICATION DEVICE (INCL. RAIN SENSOR SHUTOFF)	EA	0	1	0	1
B-5	SS	ICD-100 HUNTER DECODER WITH SURGE SUPPRESION AND GROUND WIRE	EA	7	12	0	19
B-6	TW	FURNISH AND INSTALL 14-1 RED WIRE TO BE BURIED WITH LATERAL LINE FROM LAST VALVE ON WIRE PATH TO LAST TREE/PALM FOR TRACKING	LF	360	0	190	550
B-7	W	FURNISH AND INSTALL PAIGE ELECTRIC AWG 12-2 BLACK COMMUNICATION WIRE	LF	2062	4888	0	6950
B-8	DS	IRRIGATION PUMP STATION WATER SOURCE FILTER DISCHARGE	EA	0	1	0	1
		GROUNDING					
B-9	GR	FURNISH AND INSTALL COPPER CLAD GROUND ROD (10' LENGTH) WITH CADWELD CONNECTION OF #10 BARE COPPER WIRE TO THE SV (INCLUDE A CARSON SPEC GRADE VALVE BOX ROUND 10 IN. PURPLE BOX/PURPLE LID OVERLAPPING ICV W/GRAVEL, BRICKS, FABRIC, ETC.)	EA	7	12	0	19
B-10	GP	FURNISH AND INSTALL 4"X 96" GROUND PLATE AT ORIGIN AND EACH END OF THE 2 WIRE PATH	EA	1	2	0	3
		VALVES					
B-11	MV	FURNISH AND INSTALL RAINBIRD 300 BPES, 3" BRASS MASTER VALVE, WITH ANGLE CONFIGURATION	EA	0	1	0	1
B-12	GV	FURNISH AND INSTALL 3" MUELLER FLANGED ISO GATE VALVE, A-2360 SERIES RESILIENT WEDGE (INCLUDE A CARSON SPEC GRADE VALVE BOX RECTANGLE 12 IN. X 20 IN. X 12 IN.H PURPLE BOX/PURPLE LID OVERLAPPING RWDNDES W/GRAVEL, BRICKS, FABRIC, ETC.)	EA	0	4	0	4
B-13	SV	FURNISH AND INSTALL RAINBIRD 200-PESBR FOR RECLAIMED WATER APPLICATION WITH SCRUBBER MECHANISM TECHNOLOGY, AND PURPLE FLOW CONTROL HANDLE; INCLUDE A 2" RED AND WHITE ISO MANUAL GATE VALVE PER VALVE DETAIL (INCLUDE A CARSON SPEC GRADE VALVE BOX RECTANGLE 12 IN. X 20 IN. X 12 IN.H PURPLE BOX/PURPLE LID OVERLAPPING RWDNDES, W/GRAVEL, BRICKS, FABRIC, ETC.)	EA	1	0	0	1
B-14	SV	FURNISH AND INSTALL RAINBIRD 150-PESBR FOR RECLAIMED WATER APPLICATIONS WITH SCRUBBER MECHANISM TECHNOLOGY, AND PURPLE FLOW CONTROL HANDLE; INCLUDE A 1.5" RED AND WHITE ISO MANUAL GATE VALVE PER VALVE DETAIL. (INCLUDE A CARSON SPEC GRADE VALVE BOX RECTANGLE 12 IN. X 20 IN. X 12 IN.H PURPLE BOX/PURPLE LID OVERLAPPING RWDNDES, WITH GRAVEL, BRICKS, FABRIC, ETC.)	EA	6	8	1	15
B-15	SV	FURNISH AND INSTALL RAINBIRD 100-PESBR FOR RECLAIMED WATER APPLICATIONS WITH SCRUBBER MECHANISM TECHNOLOGY, AND PURPLE FLOW CONTROL HANDLE; INCLUDE A 1" RED AND WHITE ISO MANUAL GATE VALVE PER VALVE DETAIL. (INCLUDE A CARSON SPEC GRADE VALVE BOX RECTANGLE 12 IN. X 20 IN. X 12 IN.H PURPLE BOX/PURPLE LID OVERLAPPING, RWDNDES WITH GRAVEL, BRICKS, FABRIC, ETC.)	EA	0	4	0	4
B-16	PB	FURNISH AND INSTALL SPLICE/PULL/ JUNCTION BOXES ,) (INCLUDE A CARSON SPEC GRADE VALVE BOX RECTANGLE 12 IN. X 20 IN. X 12 IN.H PURPLE BOX/PURPLE LID OVERLAPPING RWDNDES, W/ GRAVEL, BRICKS, FABRIC, PULL STRING, ETC.)	EA	1	6	0	7
		SPRAYHEADS AND BUBBLERS					
B-17	SH	FURNISH AND INSTALL RAIN BIRD 1812-PRS-NP 12 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE AND NON-POTABLE PURPLE CAP.(RADIUS PER PLANS) (INCLUDES FITTINGS, FUNNY PIPE, NON POTABLE PURPLE COVER, ETC.)	EA	70	42	6	118
B-18	FB	FURNISH AND INSTALL RAIN BIRD 1800-1400 FLOOD 1404 FIXED FLOW RATE (0.25-2.0GPM), FULL CIRCLE BUBBLER, 1/2" FIPT (SIZED PER TREE/PALM) (INCLUDES FITTINGS, FUNNY PIPE, PURPLE CAP, ETC.)	EA	108	199	0	307

REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION TABULATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		
									T-02

IRRIGATION TABULATION OF QUANTITIES							
PAY ITEM NO.	SYM.	DESCRIPTION	UNIT	MEDIAN NUMBERS			TOTAL THIS SHEET
				MEDIAN #11 L17 - L-21	MEDIAN #12 L-21 - L-28	MEDIAN #13 L-28 - L-29	
		BLOWOFF					
B-19	BOA	FURNISH & INSTALL: MAIN AND SUBMAIN FLUSH/ BLOW OFF ASSEMBLIES PER PLAN NOTES & DETAILS. SIZES TO MATCH MAIN SIZE. (INCLUDE A CARSON SPEC GRADE VALVE BOX RECTANGLE 12 IN. X 20 IN. X 12 IN.H PURPLE BOX/PURPLE LID OVERLAPPING RWDNDES, W/GRAVEL, BRICKS, FABRIC, ETC.)	EA	1	1	0	2
		MAINLINE PIPING					
B-20	ML	FURNISH AND INSTALL 3" PVC CLASS 200 SDR 21 BELL END GASKET TYPE IRRIGATION MAINLINE WITH HARCO DIP FITTINGS & THRUST BLOCKING, BY TRENCHING, SEE NOTES, SPECIFICATIONS AND DETAILS FOR INSTALLATION REQUIREMENTS AND REQUIRED COMPONENTS. (PANTONE PURPLE COLOR)	LF	2034	4630	0	6664
		LATERAL PIPING					
B-21	LL	FURNISH AND INSTALL IRRIGATION LATERAL LINE: 1" CLASS 200 SDR 21 (PANTONE PURPLE)	LF	1921	2741	30	4692
B-22	LL	FURNISH AND INSTALL IRRIGATION LATERAL LINE: 1.25" CLASS 200 SDR 21 (PANTONE PURPLE)	LF	655	995	0	1650
B-23	LL	FURNISH AND INSTALL IRRIGATION LATERAL LINE: 1.5" CLASS 200 SDR 21 (PANTONE PURPLE)	LF	30	269	0	299
B-24	LL	FURNISH AND INSTALL IRRIGATION LATERAL LINE: 2" CLASS 200 SDR 21 (PANTONE PURPLE)	LF	85	30	0	115
		CONDUIT					
B-25	CO	FURNISH AND INSTALL 2" ELECTRICAL CONDUIT WITH 90° SWEEPS TO SOLENOID VALVES	LF	1916	4630	0	6546
		DIRECTIONAL BORE					
B-26	DB1	FURNISH AND INSTALL DIRECTIONAL BORE (LESS THAN 6") 3" HDPE PE3408 DR 11 UNDER PAVEMENT TO CONNECT TO MAINLINE (AS IRRIGATION CONVEYANCE MECHANISM)	LF	210	263	0	473
B-27	DB2	FURNISH AND INSTALL DIRECTIONAL BORE (LESS THAN 6") 2" HDPE PE3408 DR11 TO PROVIDE FOR TWO WIRE PATH UNDER THE PAVEMENT	LF	210	263	0	473
B-28	HA	FURNISH AND INSTALL HARCO HDPE TO PVC MECHANICAL JOINT COUPLING W/ TRANSITIONAL GASKETS, OR INTERCONNECTING FITTINGS FOR CONNECTING PE3408 DR 11 HDPE TO CL200 SDR 21PVC MAINLINE.	EA	1	3	0	4

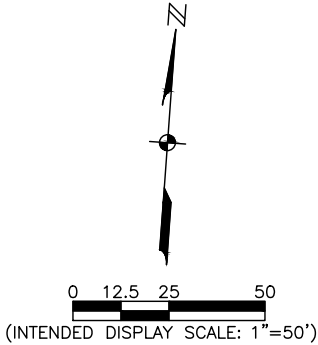
REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION TABULATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		
									T-03

NOTE:
LANDSCAPING ON THIS MEDIAN TO BE BY OTHERS (VILLAGE OF
ESTERO) TO REFLECT PHASE 1 (VILLAGE OF ESTERO) LEVEL
OF PROPOSED LANDSCAPING FOR CONSISTENCY.

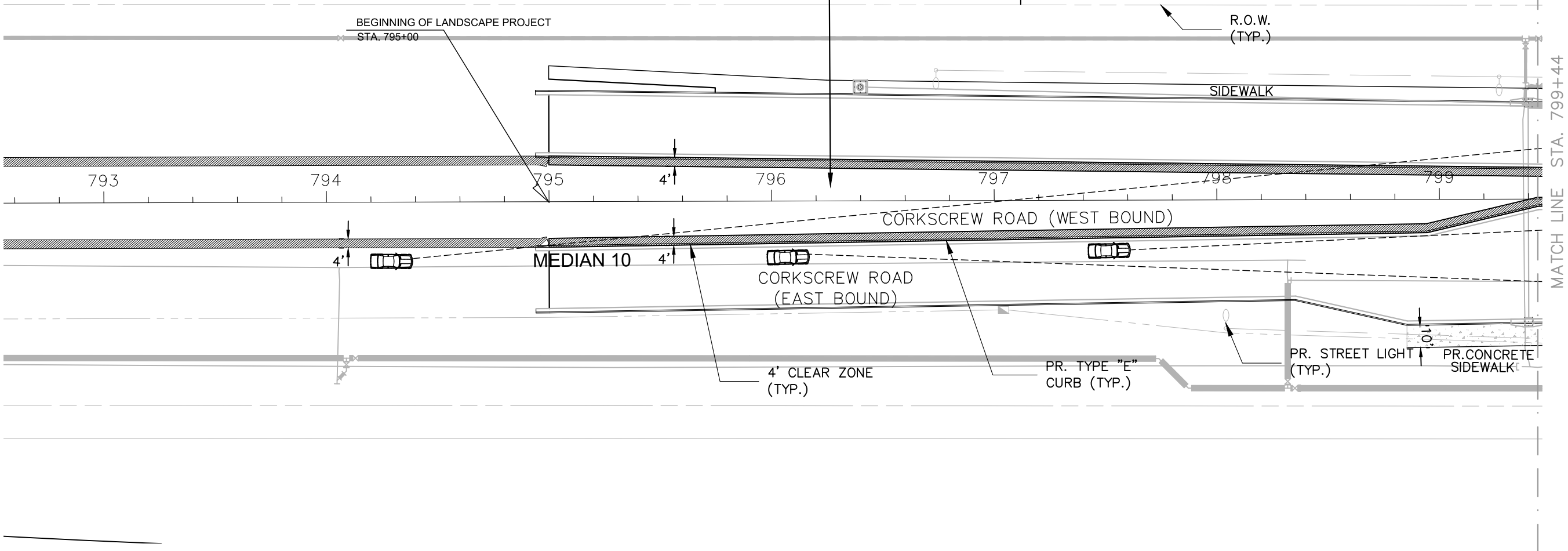
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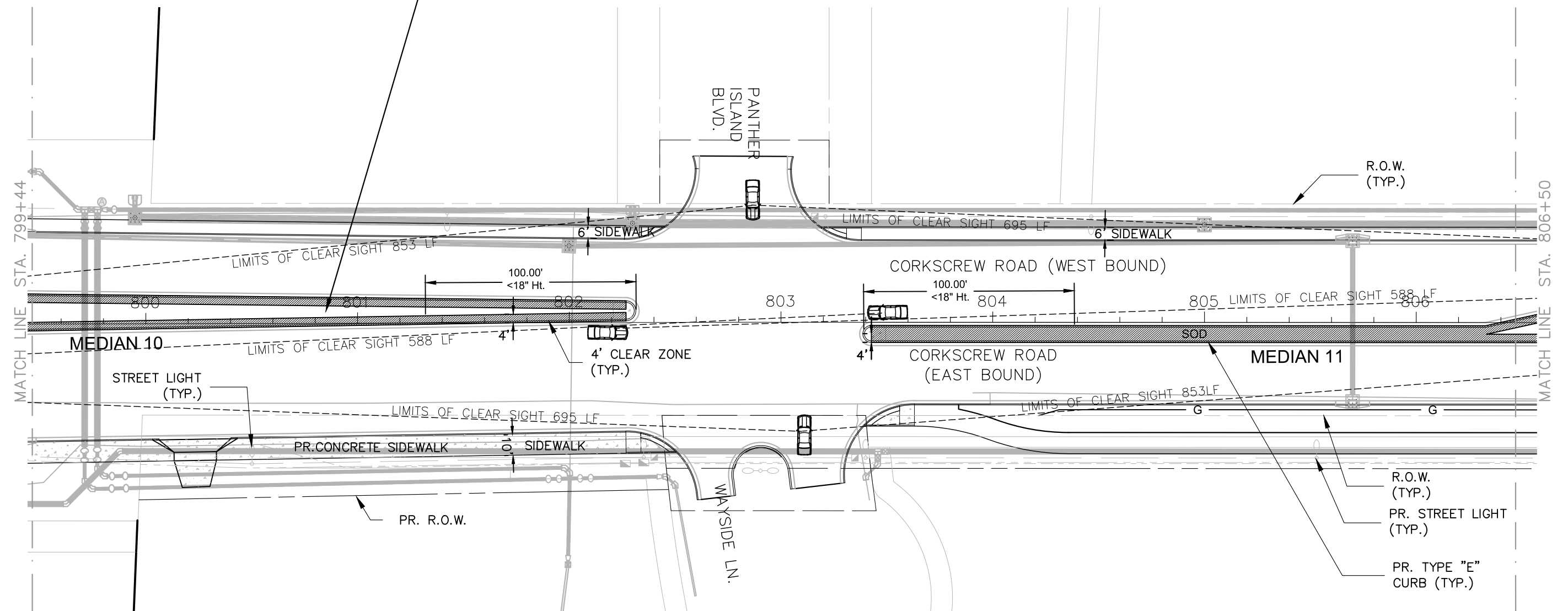
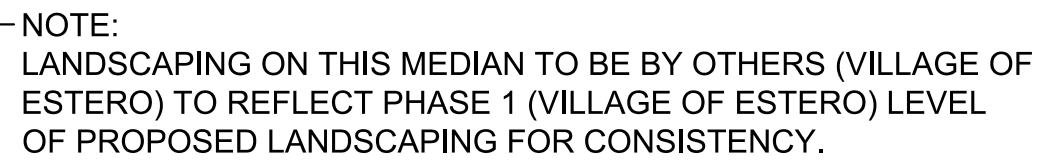
TRACT C-10



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REVISIONS				<div>JOHNSON</div> <div>ENGINEERING</div> <div>2122 JOHNSON STREET</div> <div>FORT MYERS, FL 33901</div> <div>EB 642 & LB 642</div> <div>RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION				STA.795+00 TO STA. 799+44
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		




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REVISIONS				<div><p>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. REILLY, P.E. NO. 60010</p></div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN		SHEET NO.	
DATE	DESCRIPTION		DATE		DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	STA. 799+44 TO STA. 806+50	L02
							C.R. 850		XXXX		

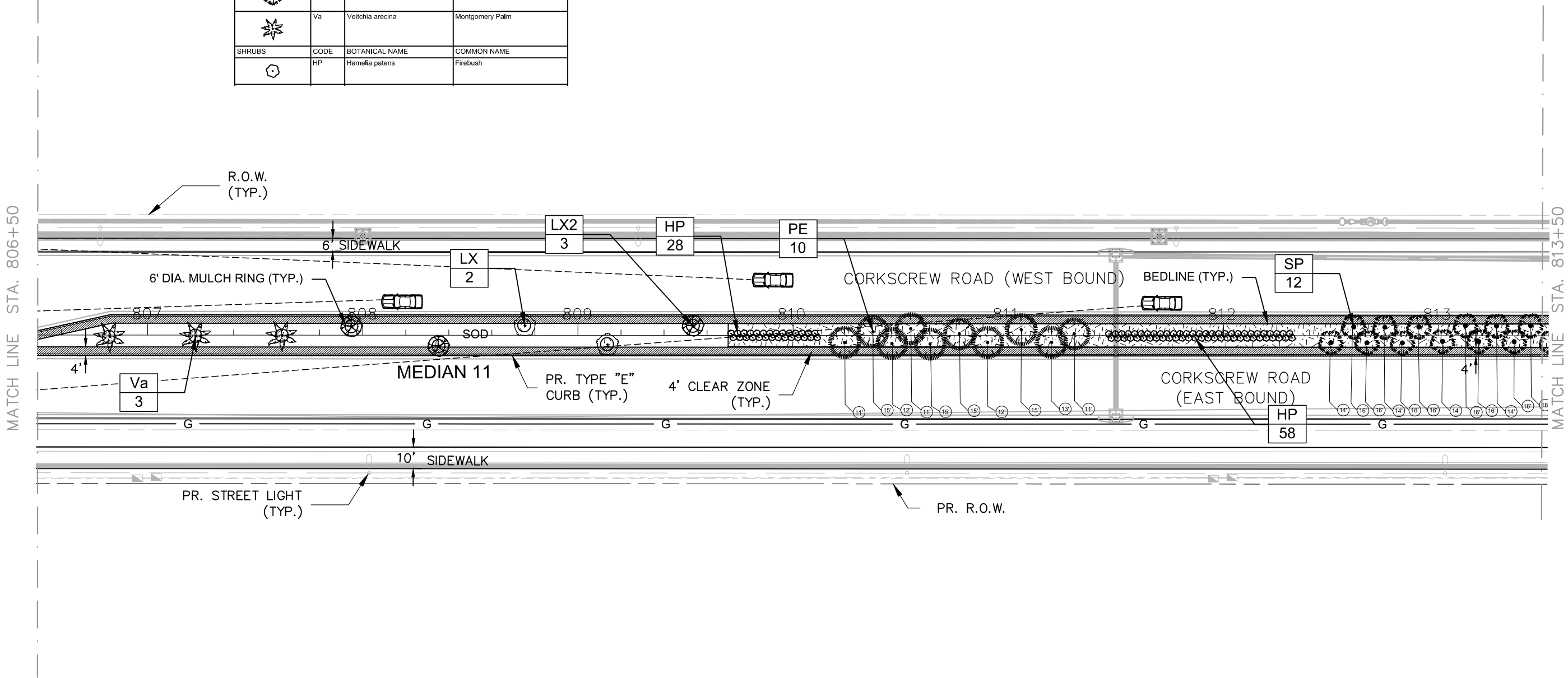
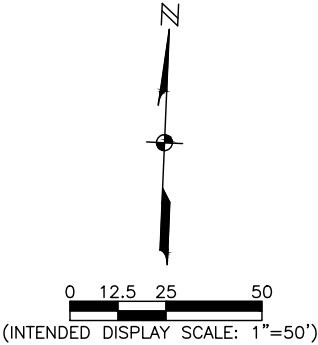
LANDSCAPE KEY			
TREES	CODE	BOTANICAL NAME	COMMON NAME
	LX	Lagerstroemia x 'Muskogee'	Muskogee Crape Myrtle
	LX2	Lagerstroemia x 'Natchez'	Natchez Crape Myrtle
	PE	Pinus elliotti 'Densa'	South Florida Slash Pine
	QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak
PALM TREES	CODE	BOTANICAL NAME	COMMON NAME
	SP	Sabal palmetto	Cabbage Palm
	Va	Veitchia arecina	Montgomery Palm
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
	HP	Hamelia patens	Firebush

LANDSCAPE KEY			
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	TD	Tripsacum dactyloides	Fakahatchee Grass
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME
	AG	Arachis glabrata	Perennial Peanut
MULCH	CODE	BOTANICAL NAME	COMMON NAME
		Mulch	Mini Pine Bark Nuggets

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		

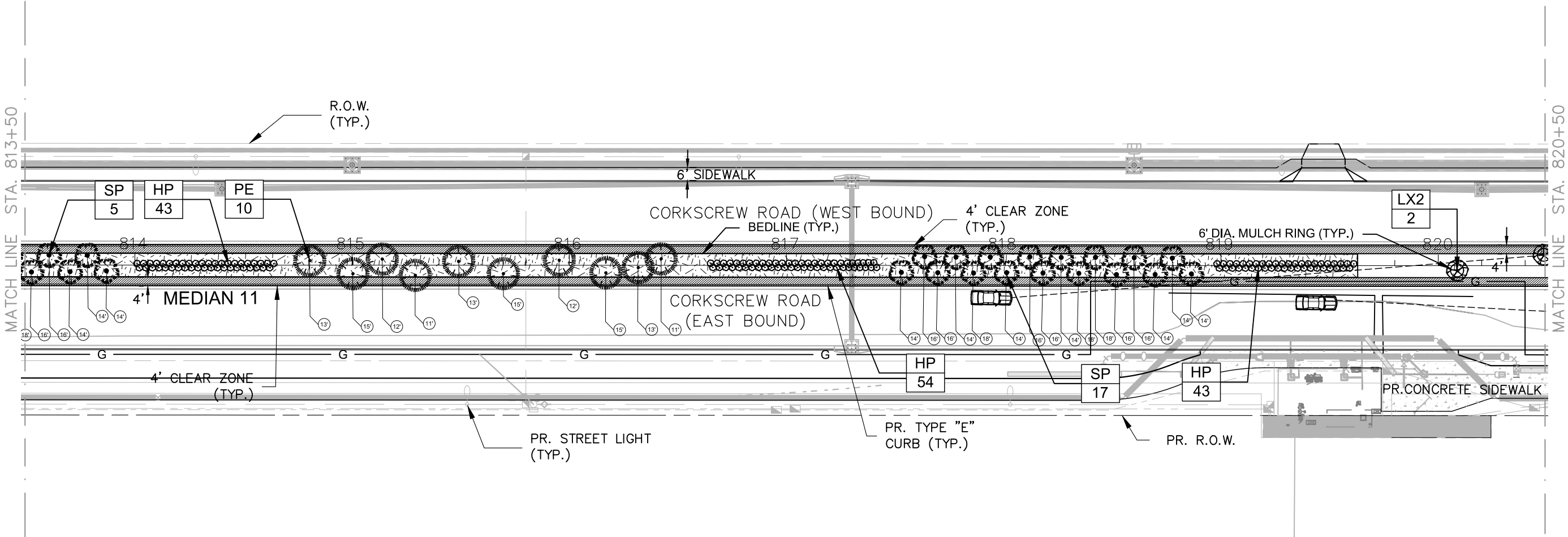
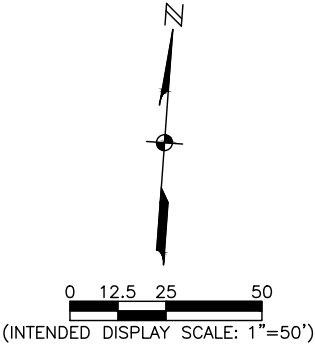
LANDSCAPE KEY			
TREES	CODE	BOTANICAL NAME	COMMON NAME
	LX	Lagerstroemia x 'Muskogee'	Muskogee Crape Myrtle
	LX2	Lagerstroemia x 'Natchez'	Natchez Crape Myrtle
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PALM TREES	CODE	BOTANICAL NAME	COMMON NAME
	SP	Sabal palmetto	Cabbage Palm
	Va	Veitchia arecina	Montgomery Palm
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
	HP	Hamelia patens	Firebush

LANDSCAPE KEY			
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	TD	Tripsacum dactyloides	Fakahatchee Grass
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L04
					C.R. 850		####	STA. 813+50 TO STA. 820+50	

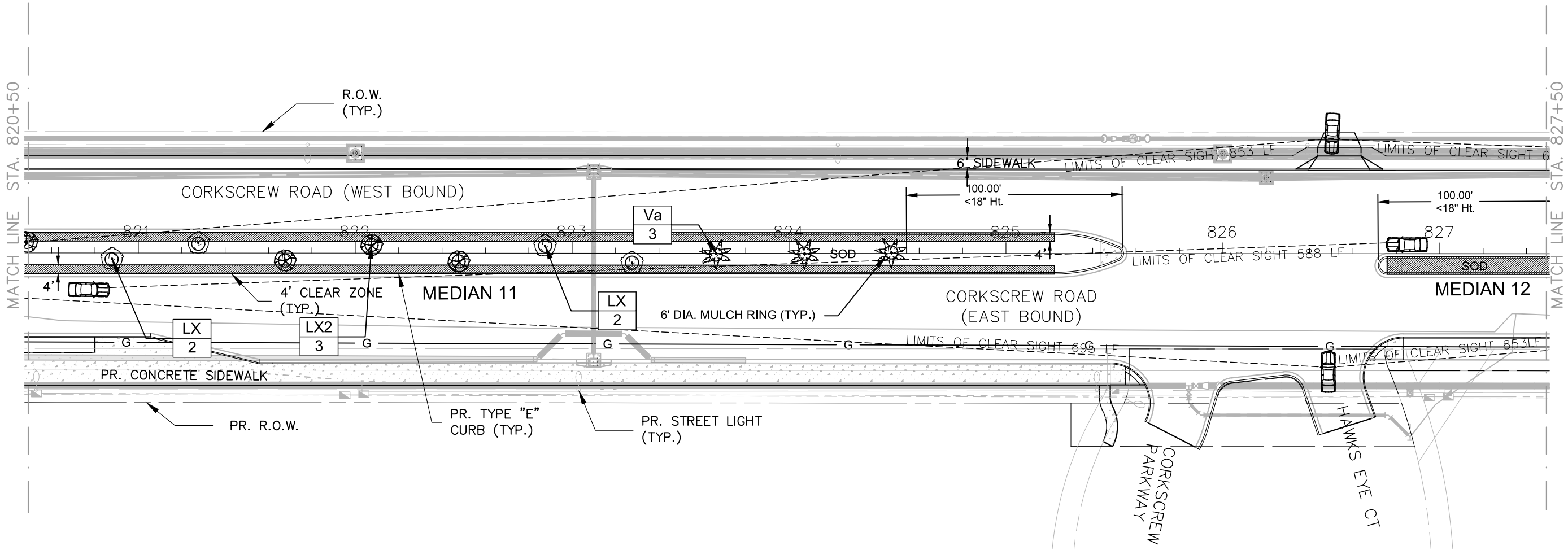
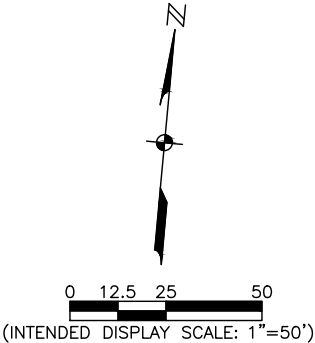
LANDSCAPE KEY			
TREES	CODE	BOTANICAL NAME	COMMON NAME
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SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
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LANDSCAPE KEY			
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	TD	Tripsacum dactyloides	Fakahatchee Grass
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L05
					C.R. 850		XXXX		
					STA.820+50 TO STA. 827+50				

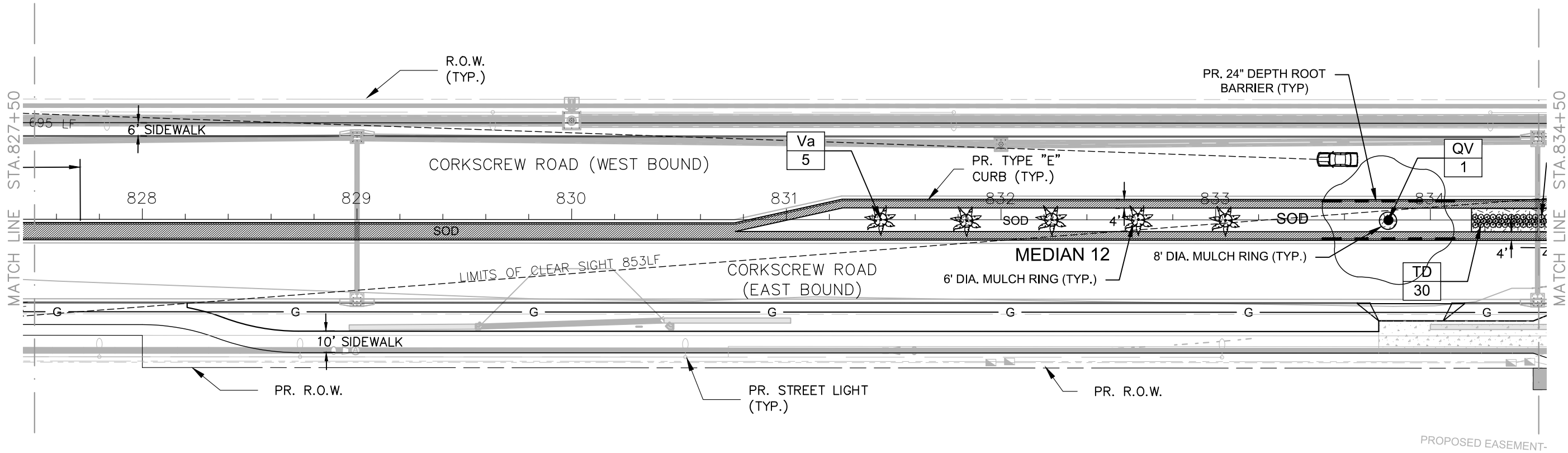
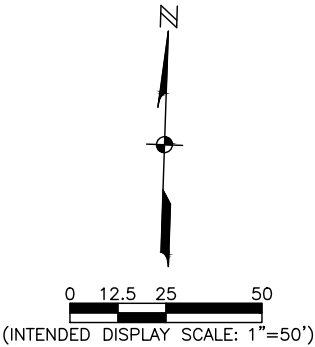
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LANDSCAPE KEY			
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		####		

STA. 827+50 TO STA. 834+50

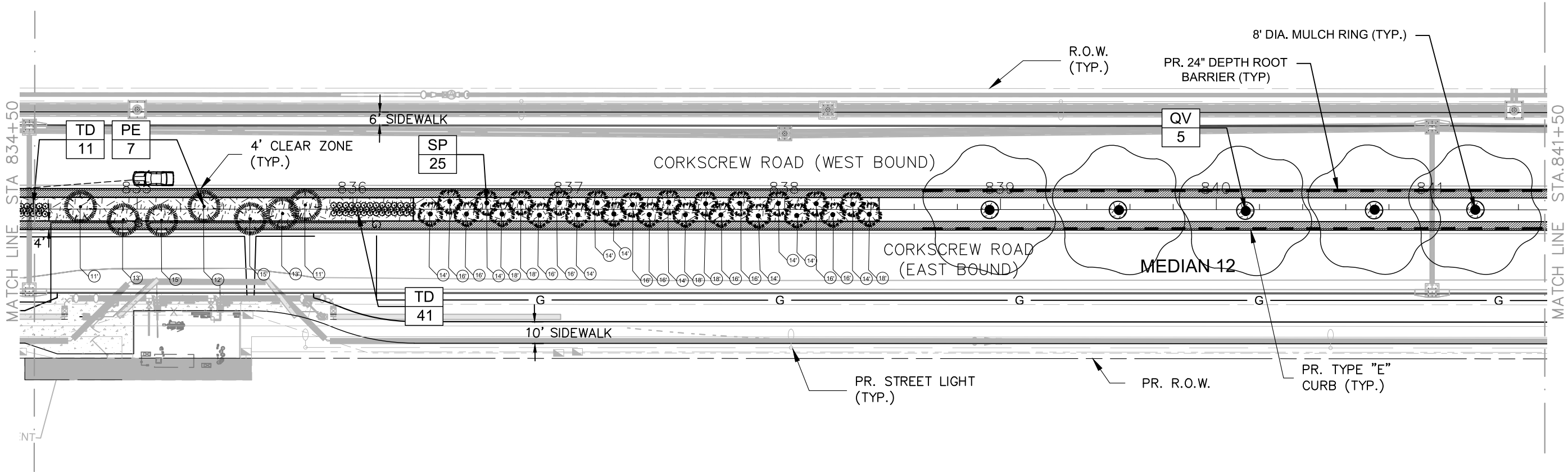
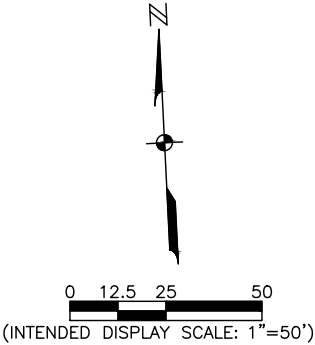
LANDSCAPE KEY			
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L07
					C.R. 850		XXXX		
STA. 834+50 TO STA. 841+50									

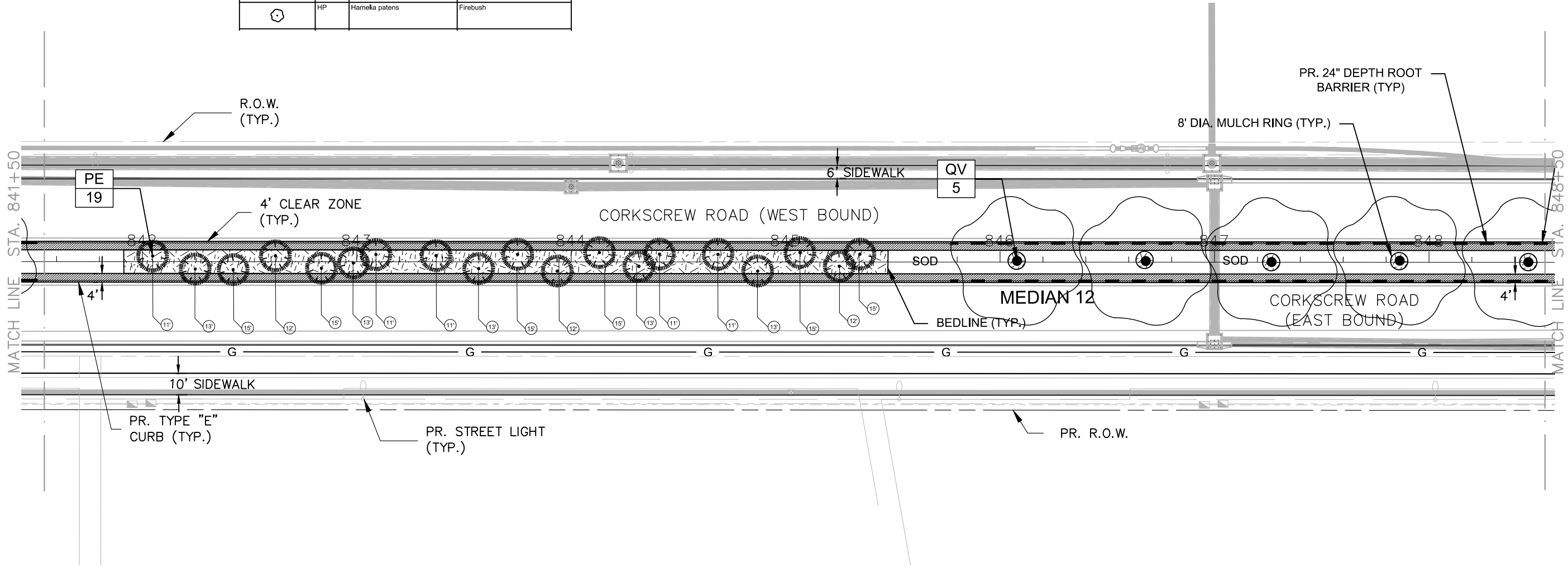
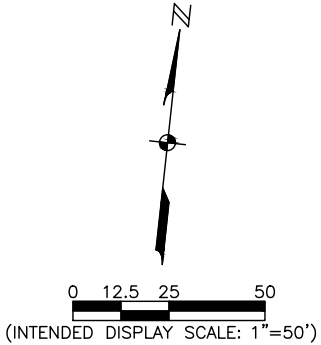
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L08
					C.R. 850		XXXX		
STA.841+50 TO STA. 848+50									

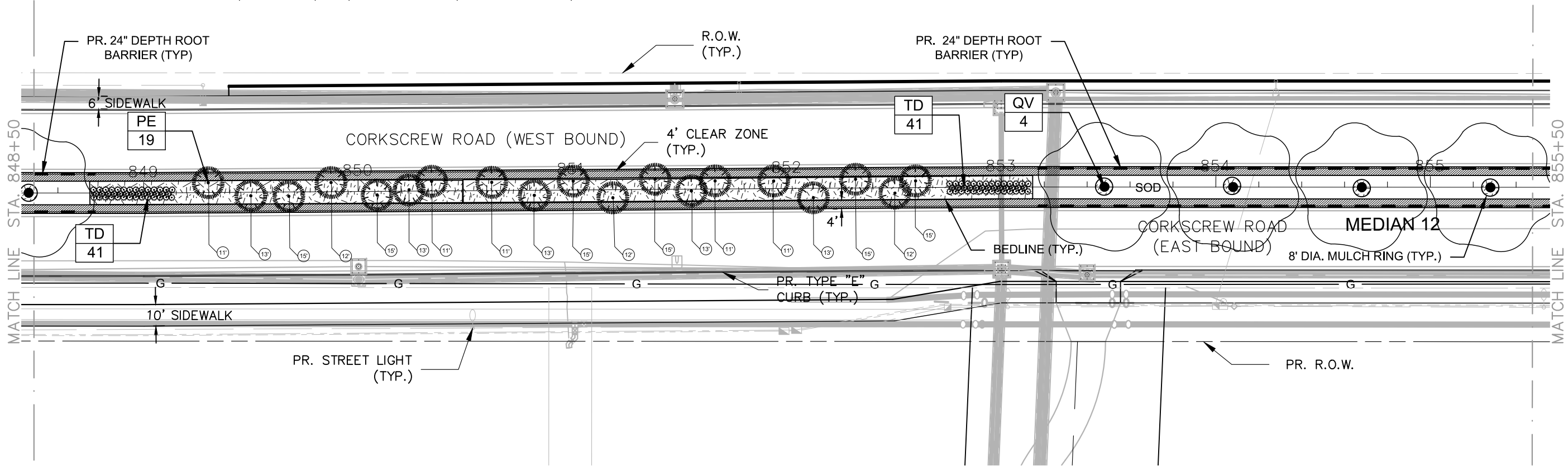
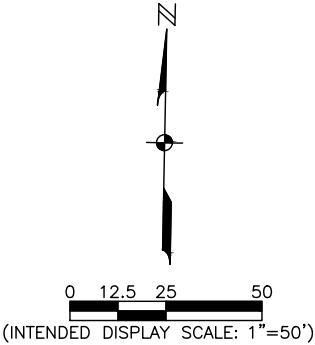
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	Va	Veitchia arecina	Montgomery Palm
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
	HP	Hamelia patens	Firebush

LANDSCAPE KEY			
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	TD	Tripsacum dactyloides	Fakahatchee Grass
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME
	AG	Arachis glabrata	Perennial Peanut
MULCH	CODE	BOTANICAL NAME	COMMON NAME
		Mulch	Mini Pine Bark Nuggets

NOTICE TO ALL
CONTRACTORS











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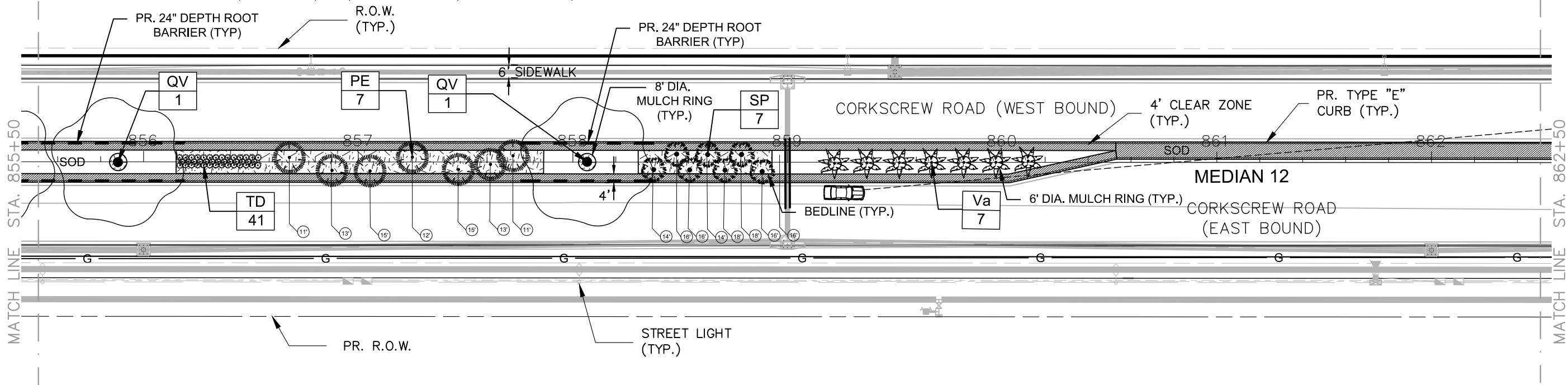
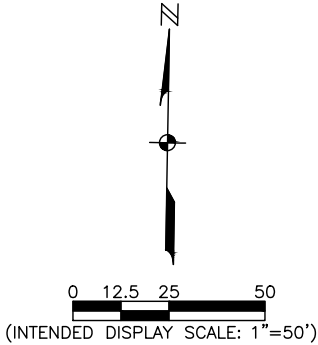
REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN STA.848+50 TO STA. 855+50	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		

LANDSCAPE KEY				LANDSCAPE KEY			
TREES	CODE	BOTANICAL NAME	COMMON NAME	GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	LX	Lagerstroemia x 'Muskogee'	Muskogee Crape Myrtle		TD	Tripsacum dactyloides	Fakahatchee Grass
	LX2	Lagerstroemia x 'Natchez'	Natchez Crape Myrtle	GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME
	PE	Pinus elliotti 'Densa'	South Florida Slash Pine		AG	Arachis glabrata	Perennial Peanut
	QV	Quercus virginiana 'Cathedral'	Cathedral Live Oak	MULCH	CODE	BOTANICAL NAME	COMMON NAME
PALM TREES						Mulch	Mini Pine Bark Nuggets
	SP	Sabal palmetto	Cabbage Palm				
	Va	Veitchia arecina	Montgomery Palm				
SHRUBS							
	HP	Hamelia patens	Firebush				

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REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		STA.855+50 TO STA. 862+50
					C.R. 850		XXXX		

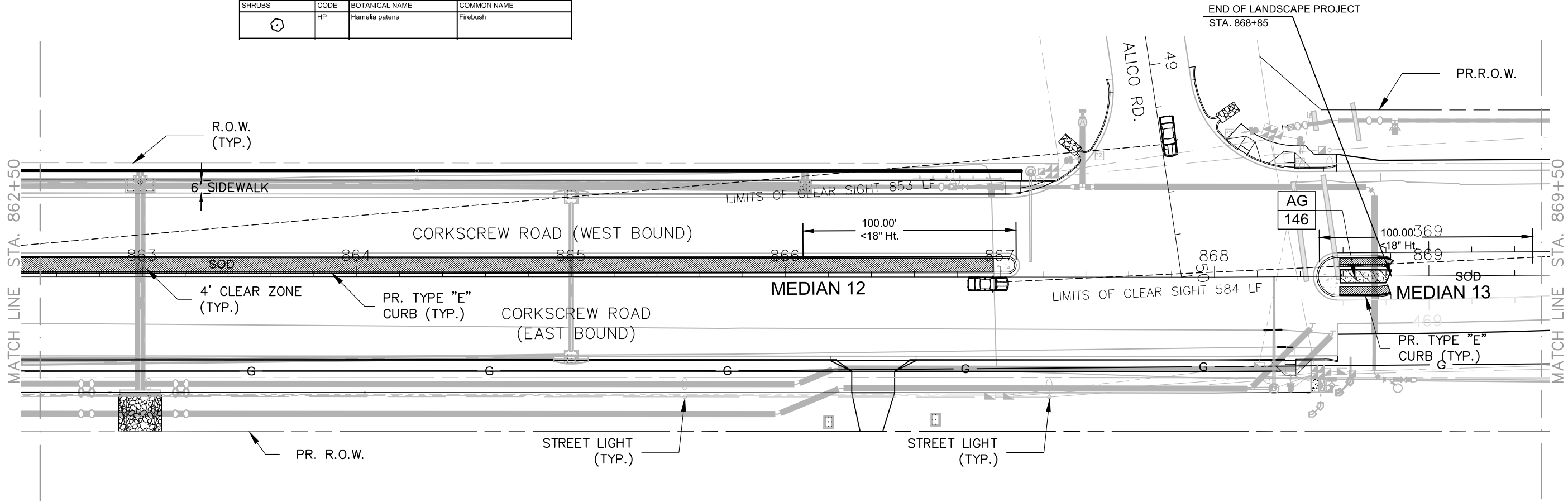
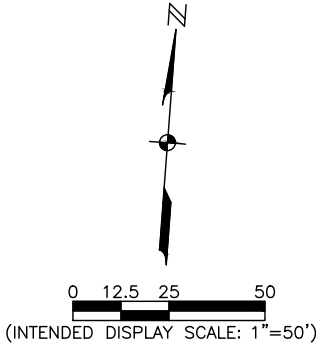
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PALM TREES	CODE	BOTANICAL NAME	COMMON NAME
	SP	Sabal palmetto	Cabbage Palm
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LANDSCAPE KEY			
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	TD	Tripsacum dactyloides	Fakahatchee Grass
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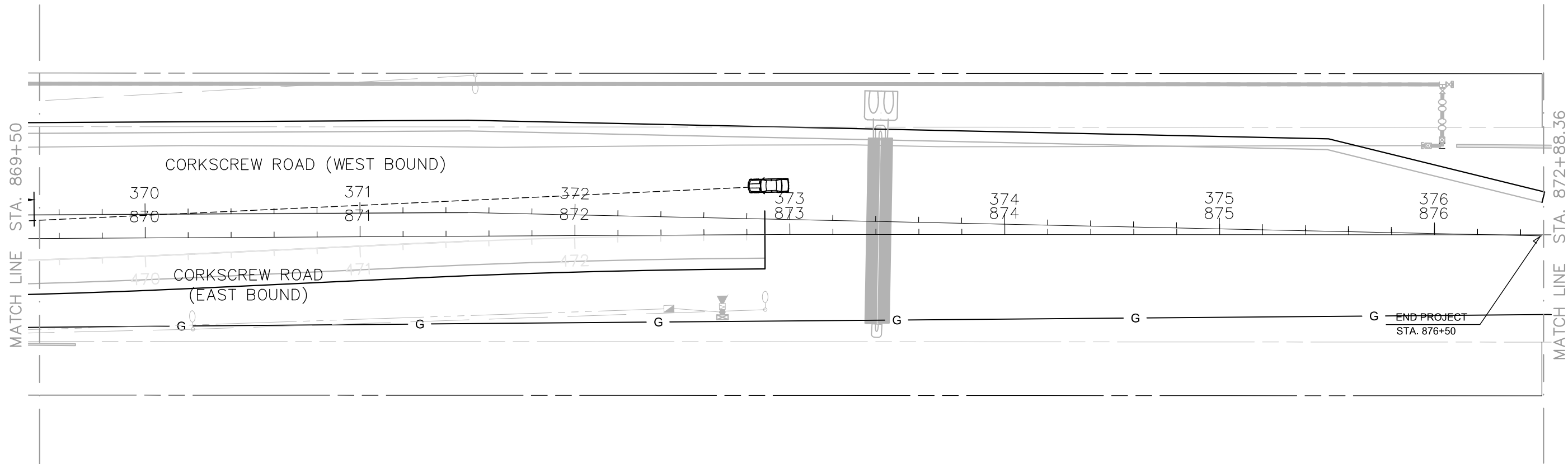
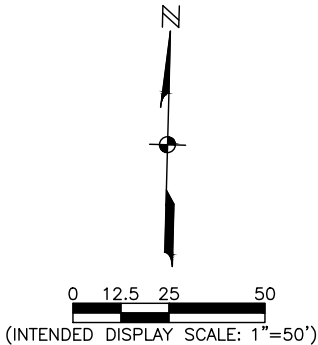
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L11
					C.R. 850		XXXX	STA. 862+50 TO STA. 869+50	

NO LANDSCAPE PROPOSED
FOR THIS SHEET

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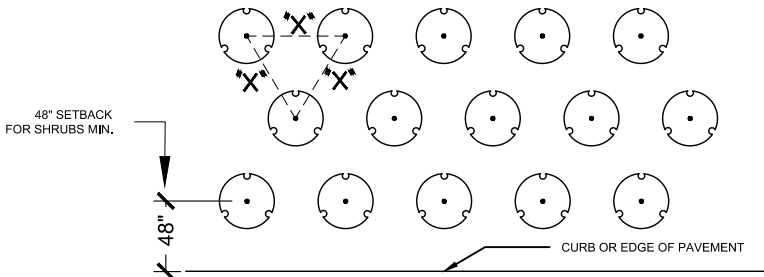
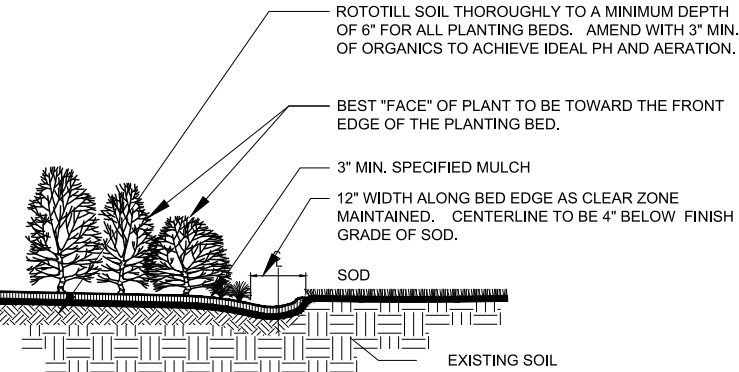
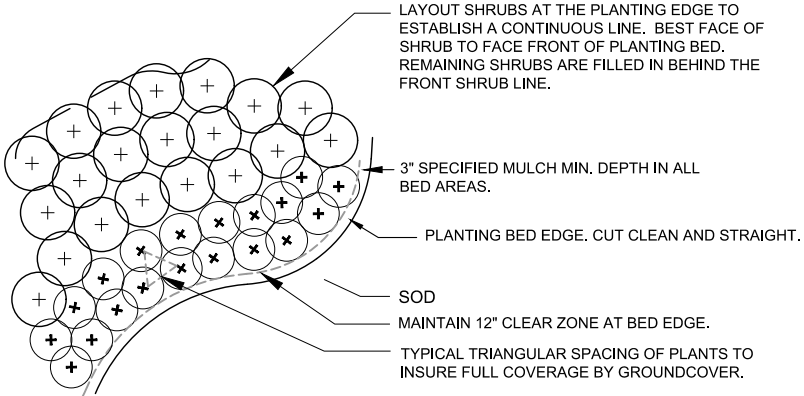
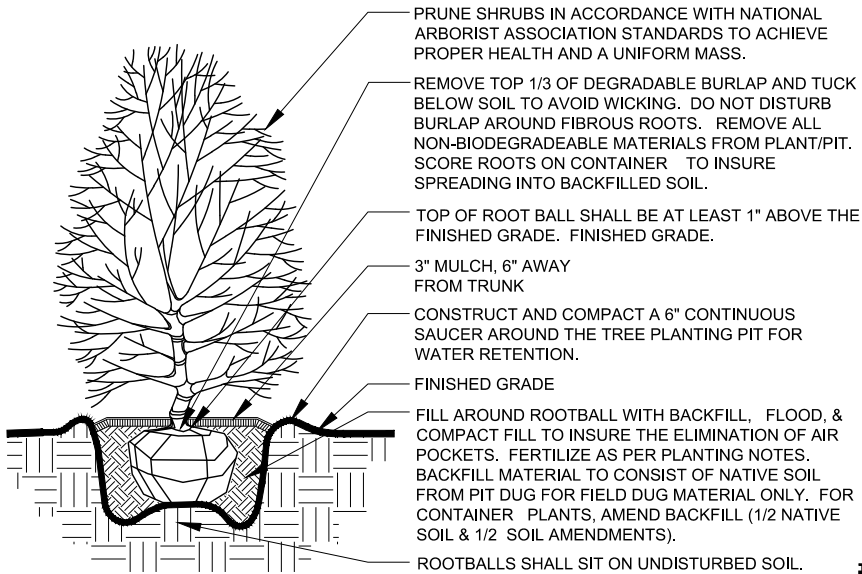
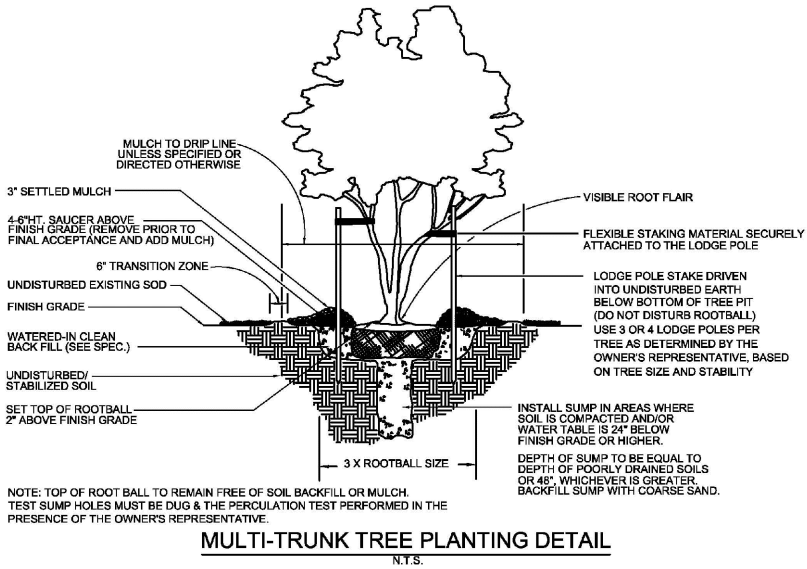
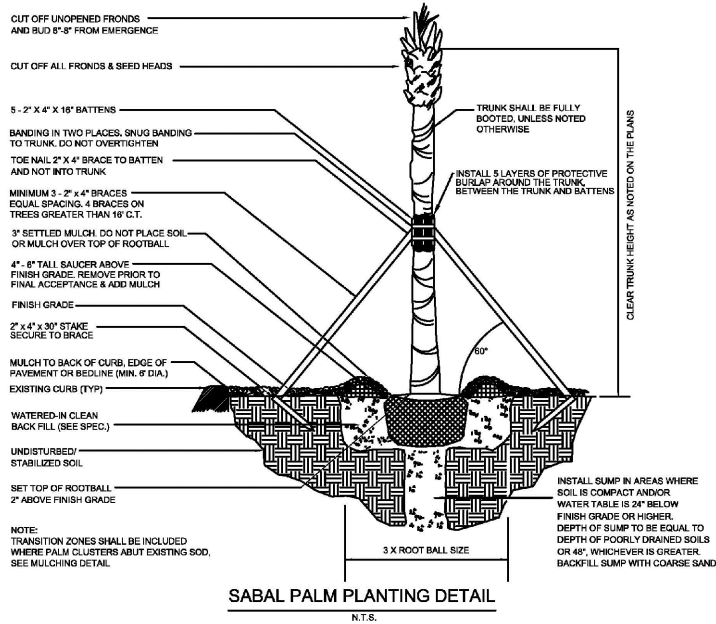
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		STA.869+50 TO STA. 876+50
					C.R. 850		XXXX		

NOTICE TO ALL CONTRACTORS

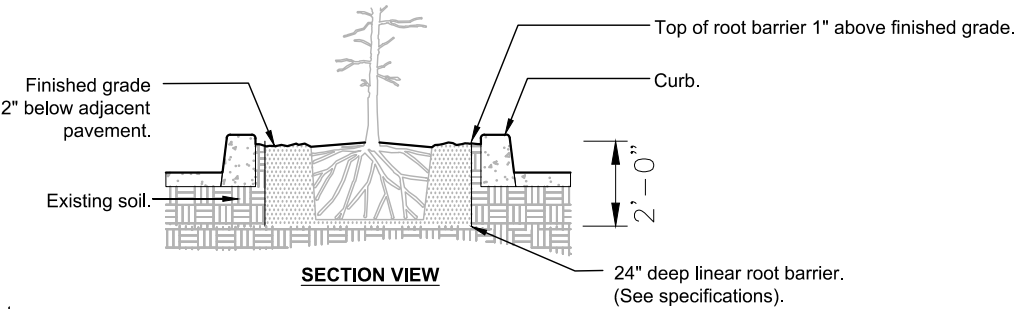
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Note:
For TRIANGULAR planting patterns, the distance between plants within and between rows equals "X".
All shrubs and groundcover masses to use triangular spacing except where noted otherwise. Refer to plant schedule for individual plant spacing "X".

PLANT SPACING (TYP.)



Notes:
1- Root barriers shall be installed per manufacturer's specifications and recommendations.
2- Root barriers shall be installed when root ball is located within 8' of pavement or as shown on plans.

ROOT BARRIERS

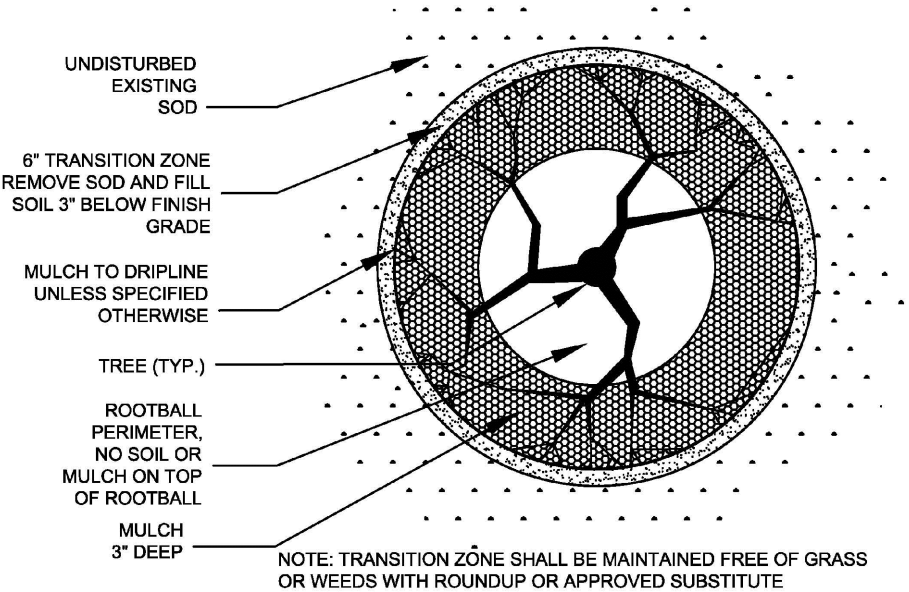
NOTE:
PLANT SPACING SHALL COMPLY WITH ON CENTER SPACING AS SHOWN IN THE PLANTING SCHEDULE, UNLESS OTHERWISE SHOWN ON THE LANDSCAPE PLANS. LANDSCAPE PLANTERS MAY REQUIRE TIGHTER ON CENTER SPACING THAN SHOWN ON THE LANDSCAPE PLAN.

REVISIONS				JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			LANDSCAPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		L13

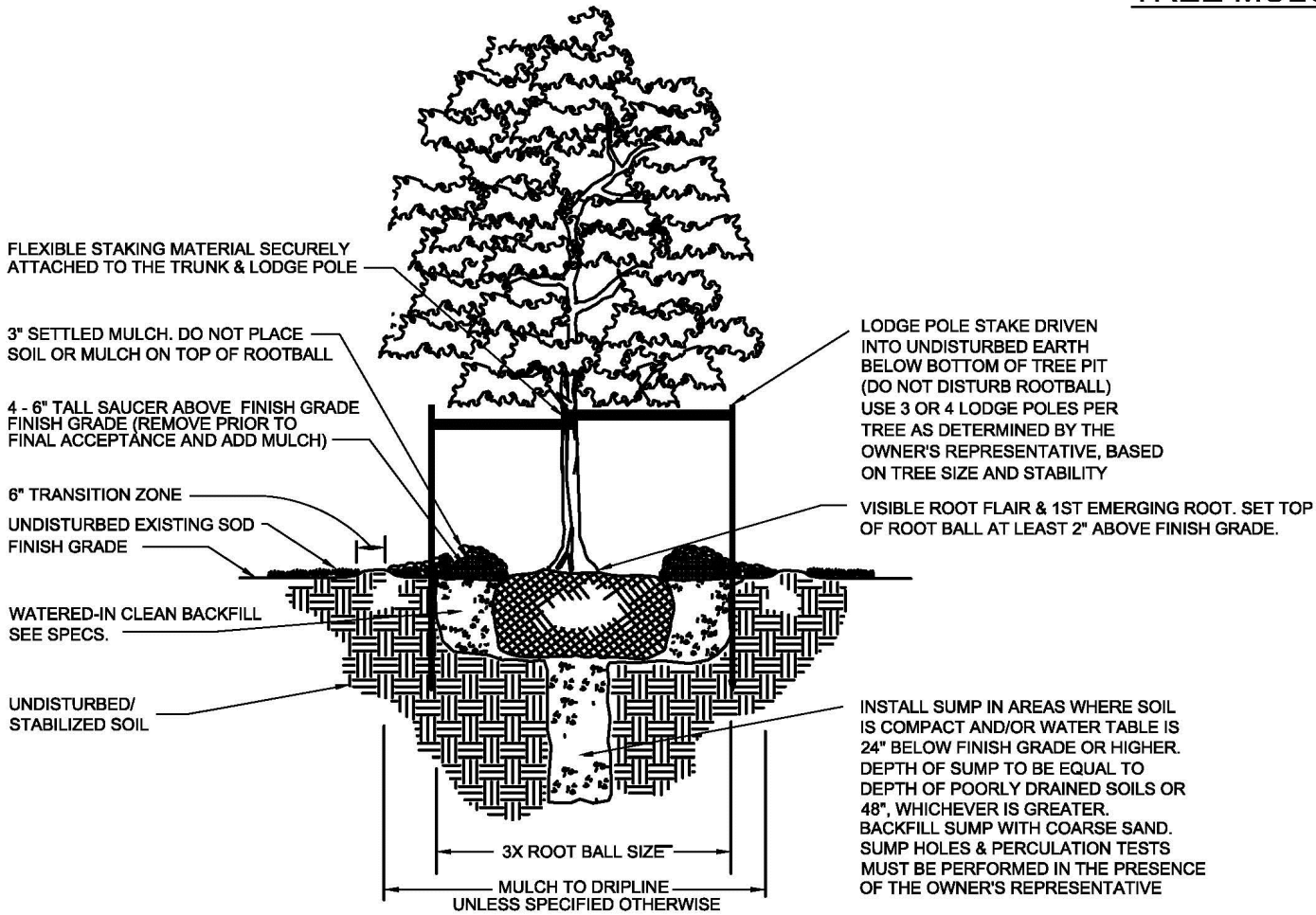
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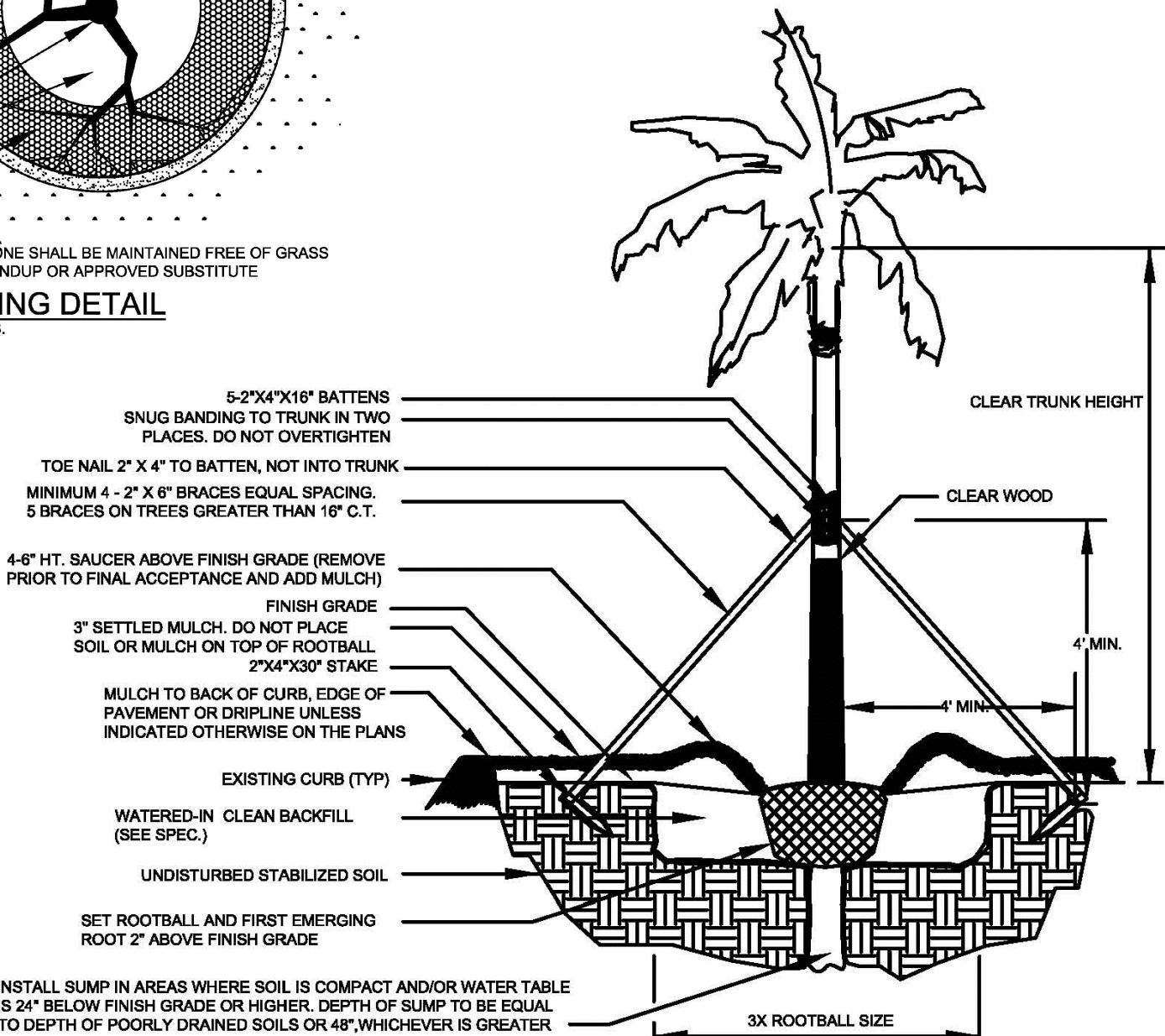
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TREE MULCHING DETAIL
N.T.S.



SINGLE TRUNK TREE PLANTING DETAIL
N.T.S.



PINNATE PALM PLANTING DETAIL
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON
ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FL 33901
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
C.R. 850		XXXX

LANDSCAPE DETAILS

SHEET
NO.

L14

LANDSCAPE NOTES

- 1. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SAFE, SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- 2. CONTRACTOR IS ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
- 3. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CONTACT THE JOB SITE SUPERINTENDENT, CALL SUNSHINE, CALL LEE COUNTY UTILITIES AND CALL LEE COUNTY TRAFFIC FOR LOCATIONS OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK.
- 4. ALL PERVIOUS AREAS NOT LANDSCAPED SHALL BE COVERED WITH SOD PER ROADWAY PLANS.
- 5. ALL SOD SHALL BE SAND GROWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN SOD AREAS. HAND RAKE PRIOR TO INSTALLING SOD. CONTRACTOR TO CUT IN AND MATCH NEW SOD TO EXISTING SOD. STAGGER JOINTS AND CLOSE ALL GAPS. ALL SOD TO BE ROLLED IMMEDIATELY AFTER INSTALLATION. ALL SOD SHALL BE CERTIFIED AS BEING FREE OF THE WEED TROPICAL SODA APPLE. (SOLANUM VIARUM)
- 6. CONTRACTOR SHALL APPLY A MINIMUM OF 2 APPLICATIONS OF APPROVED HERBICIDE TO EXISTING TURFGRASS AREAS WHERE IT WILL BECOME A PLANTED OR MULCHED AREA AS A RESULT OF THIS PROJECT. HERBICIDE MUST BE APPLIED BEFORE COMMENCING ANY GRADING OPERATIONS. CONTRACTOR SHALL REVIEW KILL WITH OWNER'S REPRESENTATIVE FOR APPROVAL. ALL HERBICIDES MUST BE APPLIED BY LICENSED APPLICATORS AND PER THE MANUFACTURER'S RECOMMENDED RATES AND INSTRUCTIONS. POST ALL APPLICATION NOTICES.
- 7. CONTRACTOR SHALL INCORPORATE A PRE-EMERGENT WEED CONTROL PRODUCT TO ALL PROPOSED PLANTING AREAS, PER MANUFACTURER INSTRUCTIONS. FOLLOW UP WITH ADDITIONAL TREATMENTS AS NECESSARY THROUGH WARRANTY PERIOD.
- 8. CONTRACTOR SHALL INSTALL ALL SOIL AS REQUIRED BY THE PROJECT. CONSTRUCT ANY BERMING TO BLEND IN WITH EXISTING GRADE. ALL SOIL MATERIAL SHALL BE CLEAN SOIL SUITABLE FOR PLANT GROWTH. SUBMIT SOIL SAMPLE TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. ALL AREAS TO BE GRADED SHALL RECEIVE A SMOOTH UNIFORM HAND GRADE. NO SOIL IS TO BE PLACED AROUND EXISTING TREES.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS SOIL AND DEBRIS FROM THE INSTALLATION OF THIS PROJECT, AND IT SHALL TAKEN TO A LAWFUL DISDOSAL SITE.
- 10. MULCH ALL NEWLY PLANTED AREAS AND AREAS TO RECEIVE MULCH WITH A SETTLED 3" DEPTH OF THE SPECIFIED MULCH. TREES AND PALMS WITHIN AREAS OF TURFGRASS SHALL BE MULCHED TO THEIR DRIPLINE OR STAKES, WHICHEVER IS GREATER. STAKES SHALL BE AT LEAST 6" INSIDE THE MULCHED RING.
- 11. THE CONTRACTOR SHALL HAND WATER ALL PLANT MATERIAL DAILY UNTIL SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BE LIABLE FOR REPLACING PLANT MATERIALS EXPERIENCING TRANSPLANT SHOCK OR INPROPER CARE, AT ANYTIME DURING THE COURSE OF THE CONTRACT PERIOD.
- 12. CONTRACTOR SHALL REPAIR ANY AREAS DISTURBED DURING THE COMPLETION OF WORK.
- 13. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NUMBER 1 OR BETTER AS ESTABLISHED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
- 14. ALL PLANT MATERIAL MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- 15. CONTRACTOR SHALL STAKE ALL TREES AND PALMS PER THE STAKING DETAILS.
- 16. ALL TREE RINGS AND MULCHED AREAS EVIDENCING WEED GROWTH SHALL BE SPRAYED WITH THE APPROVED HERBICIDE AT THE MANUFACTURER'S RECOMMENDED APPLICATION RATE. MULCHED AREAS SHALL REMAIN WEED FREE UNTIL FINAL ACCEPTANCE.
- 17. THE OWNER RESERVES THE RIGHT TO MODIFY PLANT PLACEMENT IN THE FIELD AS CONDITIONS DICTATE.
- 18. PLANT MATERIAL SHALL BE INSTALLED CONCURRENT WITH THE IRRIGATION SYSTEM.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING ANY WORK.
- 20. THE ROOT FLAIR AND ORIGIN OF THE FIRST EMERGING ROOT OF THE ROOT BALL SHALL BE AT LEAST 2" ABOVE FINISH GRADE AND VISIBLE AT INSPECTION. IF NOT, THE TREE WILL BE REJECTED.
- 21. CONTRACTOR TO WARRANTY ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR FOLLOWING FINAL ACCEPTANCE.

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TREE AND PALM PLANTING NOTES

- 1. PREPARE PLANTING HOLE TO ANSI 300 STANDARDS.
- 2. INSTALL TREE SUMP PER PLANTING DETAIL.
- 3. REMOVE EXCESS SOIL FROM TOP OF ROOTBALL, EXPOSING ROOT FLARE AND UPPER MOST ROOTS.
- 4. PLACE ROOTBALL IN THE HOLE AND STRAIGHTEN PLANT, INSURING THE ROOT FLARE AND TOP ROOT OF THE ROOTBALL IS AT LEAST 2" ABOVE FINISHED GRADE.
- 5. BALLED AND BURLAPPED MATERIAL:
 - a. REMOVE BURLAP AND TWINE/ROPE FROM TRUNK AND TOP OF ROOTBALL.
 - b. GENTLY REMOVE ALL NON-BIODEGRADABLE MATERIAL FROM THE ROOTBALL AND PLANT.
 - c. WIRE BASKETS: GENTLY BEND DOWN OR REMOVE WIRE FROM TOP OF ROOTBALL AND WHERE IT IS BELOW FINISH GRADE.
- 6. CONTAINER MATERIAL:
 - a. MAKE 3 TO 6 VERTICAL SLICES TO THE INSIDE OF THE ROOTBALL ADJACENT TO THE TRUNK.
 - b. MAKE COMPLETE SLICES PARALLEL TO THE SIDES OF THE ROOTBALL, 1" - 2" FROM THE EDGE OF THE ROOTBALL AND COMPLETELY AROUND THE PERIMETER OF THE ROOTBALL.
- 7. BACKFILL 25% OF THE HOLE DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE PLANT IN A VERTICAL POSITION.
- 8. BACKFILL AN ADDITIONAL 25% OF THE HOLE DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE PLANT IN A VERTICAL POSITION.
- 9. BACKFILL AN ADDITIONAL 25% OF THE HOLE DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE PLANT IN A VERTICAL POSITION.
- 10. BACKFILL THE REST OF THE HOLE TO THE TOP OF THE ROOTBALL AND THOROUGHLY WATER IN, MAINTAINING THE PLANT IN A VERTICAL POSITION.
- 11. ADD 3" OF THE SPECIFIED MULCH FROM THE PERIMETER OF THE ROOTBALL TO THE DRIPLINE, CURB, BED DEMARCATION LINE OR AS NOTED ON THE PLANS.
- 12. ANY DEVIATION FROM THE ABOVE PROCESS OR IMPROPER HANDLING WILL NOT BE CONSIDERED AS INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF WORK.
- 13. ONLY PLANTS WITH PROPERLY PRUNED ROOT SYSTEMS WILL BE ACCEPTED.
- 14. BALLED AND BURLAPPED TREES MUST HAVE THEIR CANOPY PROPERLY HARDENED-OFF FOR ACCEPTANCE.
- 15. TREES WITH CENTER STAKES WILL NOT BE ACCEPTED.

SITE MAINTENANCE PROGRAM

- 1. FROM THE NOTICE-TO-PROCEED DATE, A COMPREHENSIVE MAINTENANCE PROGRAM FOR ALL PLANT MATERIALS, IRRIGATION COMPONENTS AND ALL OTHER ITEMS INSTALLED OR TO BE MAINTAINED BY THE CONTRACTOR, SHALL COMMENCE AND CONTINUE DURING THE DURATION OF THE INSTALLATION AND MAINTENANCE PHASES OF THE CONTRACT AND UNTIL FINAL COMPLETION AND ACCEPTANCE BY LEE COUNTY. PLEASE REFER TO THE LANDSCAPE WORK AND SITE MAINTENANCE SECTIONS OF THE SPECIFICATIONS FOR FURTHER INFORMATION.
- 2. SITE MAINTENANCE TASKS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING TASKS:
 - a. MAINTAIN ALL NEWLY PLANTED MATERIALS BY WATERING, PRUNING, CULTIVATING, FERTILIZING AND WEEDING FOR HEALTHY GROWTH AND WEED FREE PLANTING AND MULCHED AREAS
 - b. RESTORE PLANTING SAUCERS, TIGHTEN AND REPAIR STAKING MATERIALS, RESET TREES OR PALMS TO PROPER GRADE ELEVATION AND VERTICAL POSITION
 - c. LITTER PICKUP AND REMOVAL
 - d. TREAT INSECT AND DISEASE ISSUES IN ORDER TO PROMOTE HEALTHY PLANT GROWTH AND BY UTILIZYING INTEGRATED PEST MANAGEMENT, BEST MANAGEMENT PRACTICES AS APPROVED BY THE OWNER'S REPRESENTATIVE.
 - e. MAINTAIN ALL IRRIGATION SYSTEM COMPONENTS IN A FULLY OPERABLE CONDITION. CHECK FOR LINE BREAKS AND LEAKS, CLEAN FILTERS AND BUBBLER SCREENS OF DEBRIS AND CHECK FOR PROPER WATER DISTRIBUTION
 - f. PROVIDE REPORTS TO OWNER'S REPRESENTATIVE DETAILING MAINTENANCE WORK COMPLETED AND OTHER PERTINENT INFORMATION FOLLOWING EACH SITE VISIT
 - g. ROUTINE MOWING OF MEDIANS AND ROADSIDES, UNLESS NOTED OTHERWISE. MOWING SHALL EXTEND TO THE RIGHT-OF-WAY LINE OF BOTH SIDES OF THE ROADWAY..
 - h. EDGING BED LINES AND BACK-OF-CURBS/EDGE OF PAVEMENT
 - i. SOIL TESTING
 - j. REMULCHING AND REMOVING ANY MULCH FROM PAVED SURFACES
 - k. PLANT REPLACEMENTS

REVISIONS				<div>JOHNSON</div> <div>ENGINEERING</div> <div>2122 JOHNSON STREET</div> <div>FORT MYERS, FL 33901</div> <div>EB 642 & LB 642</div> <div>RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			LANDSCAPE NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L15
					C.R. 850		XXXX		

CRITICAL ANALYSIS

Generated: 2021-07-19 13:51

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 3"
Flow Available: 122.84 gpm


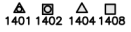













PRESSURE AVAILABLE
Static Pressure at POC: 70.00 PSI
Pressure Available: 70.00 psi

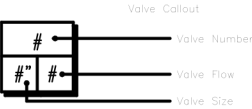
DESIGN ANALYSIS
Maximum Station Flow: 49.40 gpm
Flow Available at POC: 122.84 gpm
Residual Flow Available: 73.44 gpm

Critical Station: 5
Design Pressure: 30.00 psi
Friction Loss: 5.21 psi
Fittings Loss: 0.52 psi
Elevation Loss: 0.00 psi
Loss through Valve: 2.11 psi
Pressure Req. at Critical Station: 37.84 psi
Loss for Fittings: 0.00 psi
Loss for Main Line: 12.80 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Loss for Master Valve: 6.80 psi
Critical Station Pressure at POC: 57.44 psi
Pressure Available: 70.00 psi
Residual Pressure Available: 12.56 psi

VALVE SCHEDULE								
NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird PESBR	1-1/2"	Bubbler	23.00	4,750	27.32	30.38	3.4 in/h
2	Rain Bird PESBR	1-1/2"	Shrub Spray	23.40	4,621	36.79	39.86	1.67 in/h
3	Rain Bird PESBR	1-1/2"	Bubbler	17.00	4,482	25.72	27.37	3.4 in/h
4	Rain Bird PESBR	1-1/2"	Bubbler	20.00	4,251	27.17	29.29	3.52 in/h
5	Rain Bird PESBR	2"	Shrub Spray	49.40	4,134	37.84		1.71 in/h
6	Rain Bird PESBR	1-1/2"	Bubbler	17.00	3,978	25.5	26.97	3.4 in/h
7	Rain Bird PESBR	1-1/2"	Bubbler	21.00	3,573	27.02	28.98	3.44 in/h
8	Rain Bird PESBR	1-1/2"	Bubbler	22.00	2,382	27.14	28.58	3.48 in/h
9	Rain Bird PESBR	1-1/2"	Shrub Spray	18.20	2,218	36.14	37.09	1.58 in/h
10	Rain Bird PESBR	1-1/2"	Bubbler	25.00	2,088	27.12	28.72	3.4 in/h
11	Rain Bird PESBR	1"	Bubbler	15.00	1,742	26.66	27.19	3.43 in/h
12	Rain Bird PESBR	1"	Bubbler	16.00	1,518	24.53	25.05	3.49 in/h
13	Rain Bird PESBR	1-1/2"	Bubbler	22.00	1,335	26.47	27.3	3.45 in/h
14	Rain Bird PESBR	1"	Bubbler	15.00	1,042	26.52	26.85	3.4 in/h
15	Rain Bird PESBR	1-1/2"	Bubbler	38.00	683.5	26.31	27.56	3.46 in/h
16	Rain Bird PESBR	1-1/2"	Shrub Spray	23.40	605.9	38.49	38.95	1.37 in/h
17	Rain Bird PESBR	1-1/2"	Bubbler	29.00	619.6	26.31	27	3.43 in/h
18	Rain Bird PESBR	1-1/2"	Bubbler	19.00	875.9	27.45	27.88	3.4 in/h
19	Rain Bird PESBR	1"	Shrub Spray	5.20		37.85		1.6 in/h
	Common Wire				6,547			

WATERING SCHEDULE							
NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird PESBR	Bubbler	3.4 in/h	1.5	27	621	310.5
2	Rain Bird PESBR	Shrub Spray	1.67 in/h	1.5	54	1,264	
3	Rain Bird PESBR	Bubbler	3.4 in/h	1.5	27	459	229.5
4	Rain Bird PESBR	Bubbler	3.52 in/h	1.5	26	520	260
5	Rain Bird PESBR	Shrub Spray	1.71 in/h	1.5	53	2,618	
6	Rain Bird PESBR	Bubbler	3.4 in/h	1.5	27	459	229.5
7	Rain Bird PESBR	Bubbler	3.44 in/h	1.5	27	567	283.5
8	Rain Bird PESBR	Bubbler	3.48 in/h	1.5	26	572	286
9	Rain Bird PESBR	Shrub Spray	1.58 in/h	1.5	57	1,037	
10	Rain Bird PESBR	Bubbler	3.4 in/h	1.5	27	675	337.5
11	Rain Bird PESBR	Bubbler	3.43 in/h	1.5	27	405	202.5
12	Rain Bird PESBR	Bubbler	3.49 in/h	1.5	26	416	208
13	Rain Bird PESBR	Bubbler	3.45 in/h	1.5	27	594	297
14	Rain Bird PESBR	Bubbler	3.4 in/h	1.5	27	405	202.5
15	Rain Bird PESBR	Bubbler	3.46 in/h	1.5	27	1,026	513
16	Rain Bird PESBR	Shrub Spray	1.37 in/h	1.5	66	1,544	
17	Rain Bird PESBR	Bubbler	3.43 in/h	1.5	27	783	391.5
18	Rain Bird PESBR	Bubbler	3.4 in/h	1.5	27	513	256.5
19	Rain Bird PESBR	Shrub Spray	1.6 in/h	1.5	57	296.4	
		TOTALS:			662	14,775	4,008

IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	Rain Bird 1812-PRS-NP 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.	118	30	
	Rain Bird 1800-1404 Flood 1401 Fixed flow rate (1.0 GPM), full circle bubbler, 1/2" FIPT.	307	20	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		DETAIL
	Rain Bird PESBR 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.	19		
	MUELLER 3" A-2360 RESILIENT WEDGE ISO GATE VALVE	4		
	Rain Bird 300-BPE Angle 3" 3" Brass Master Valve, with Angle Configuration.	1		
	Hunter ACC-99D 2-Wire Decoder Controller with 99 station capacity, metal cabinet.	1		
	HUNTER RAIN-CLIK Rain Sensor, with conduit installation, mount as noted. Normally closed switch.	1		
	ICD-100 HUNTER DECODER WITH SURGE SUPPRESSION	19		
	GROUND PLATE	2		
	MAINLINE BLOWOFF ASSEMBLY	2		
	PULL BOX	7		
	Point of Connection 3"	1		
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP	6,756 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21-NP	6,664 l.f.		
	Pipe Sleeve: PVC Schedule 80	468.2 l.f.		

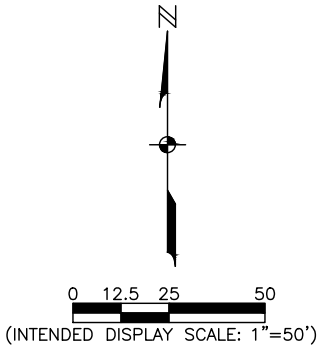


REVISIONS				JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION SCHEDULE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L16
					C.R. 850		####		

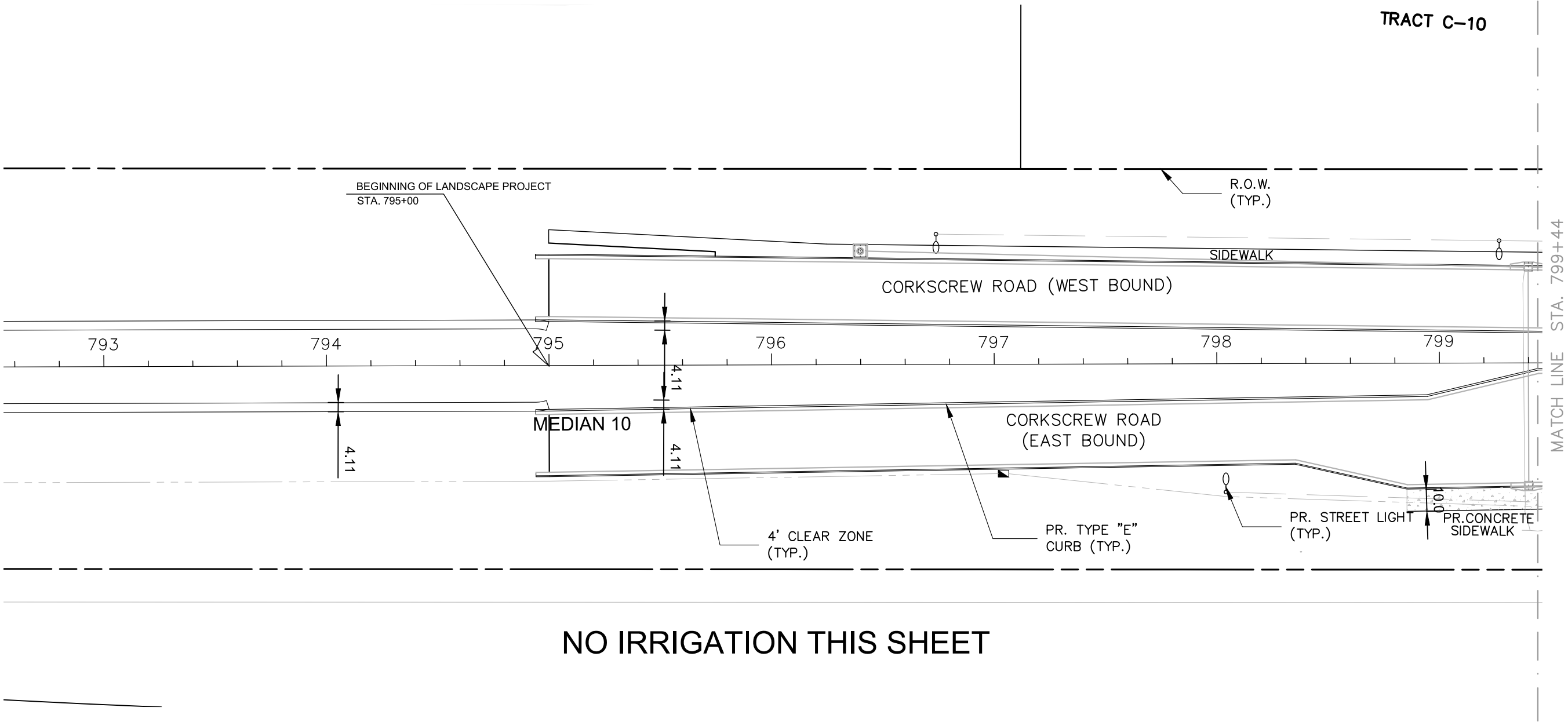
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TRACT C-10

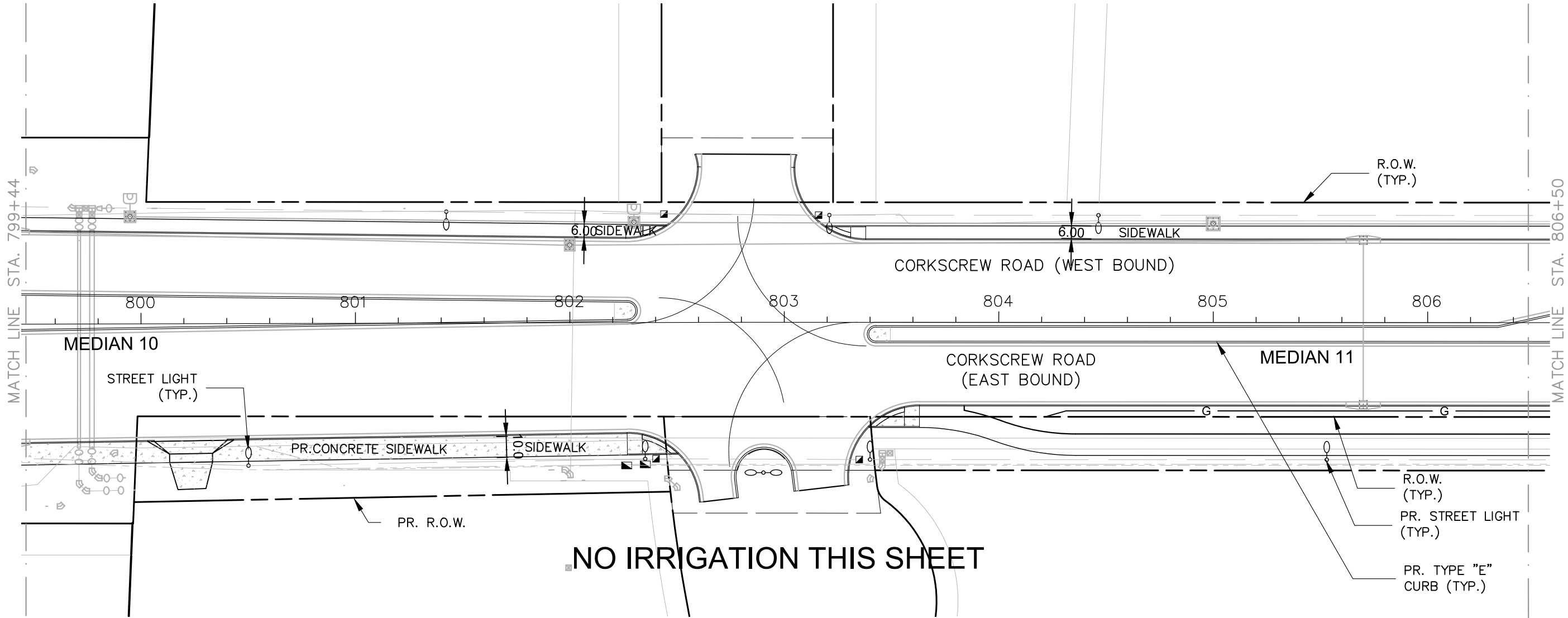
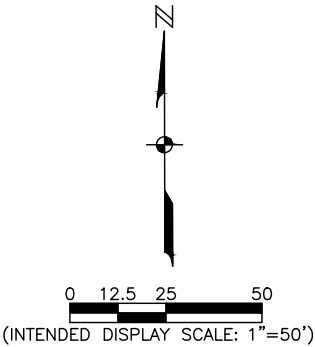


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					C.R. 850		####	STA.795+00 TO STA. 799+44	L17

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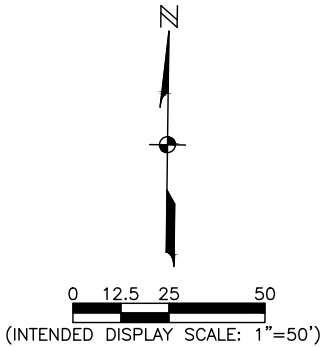


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L18
					C.R. 850		####		
							STA. 799+44 TO STA. 806+50		

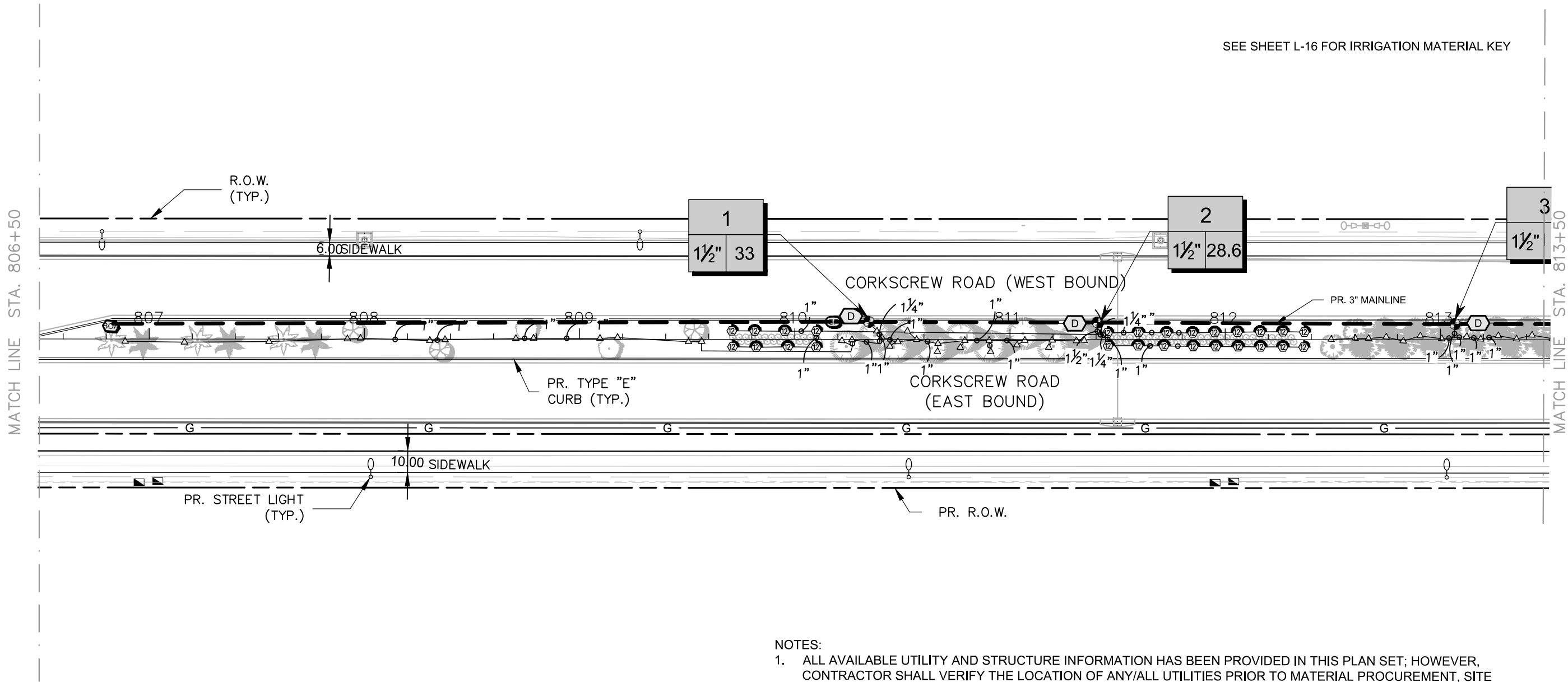
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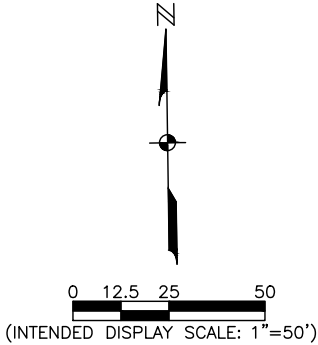
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					C.R. 850		####	STA. 806+50 TO STA. 813+50	L19

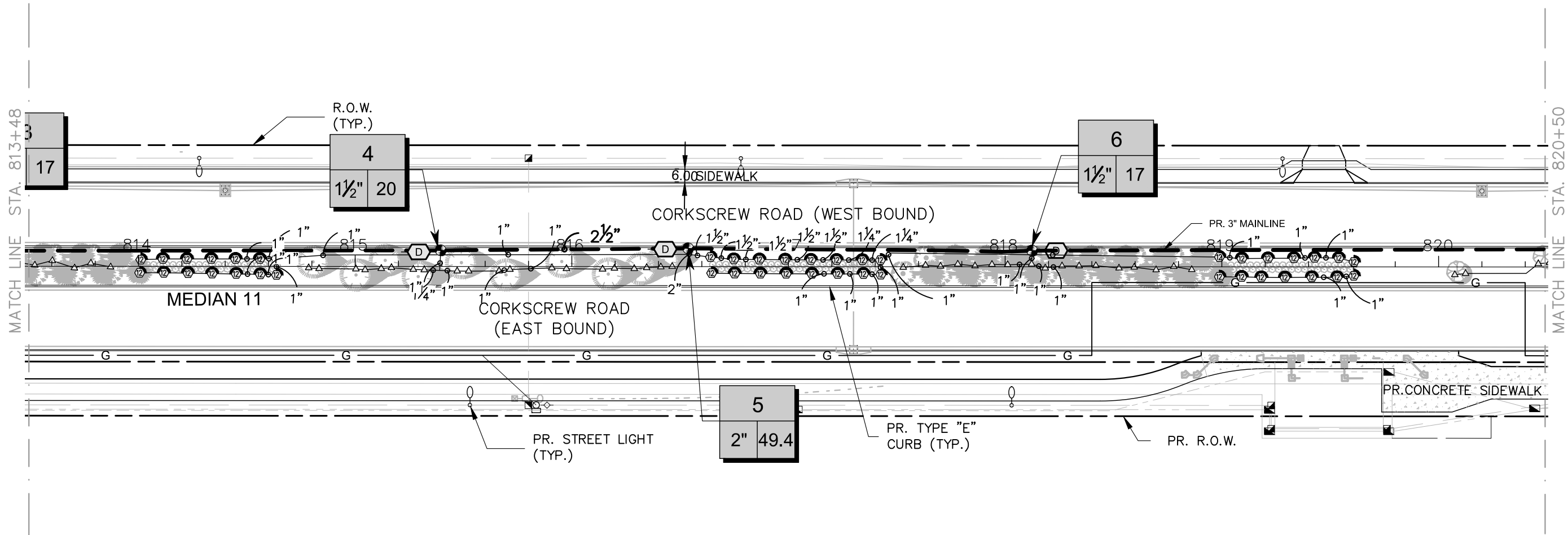
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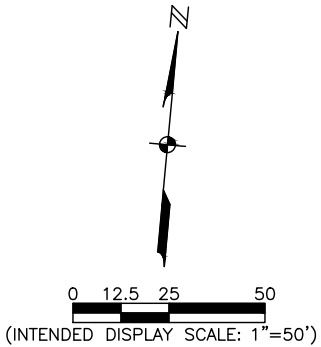
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L20
					C.R. 850		####	STA. 813+48 TO STA. 820+50	

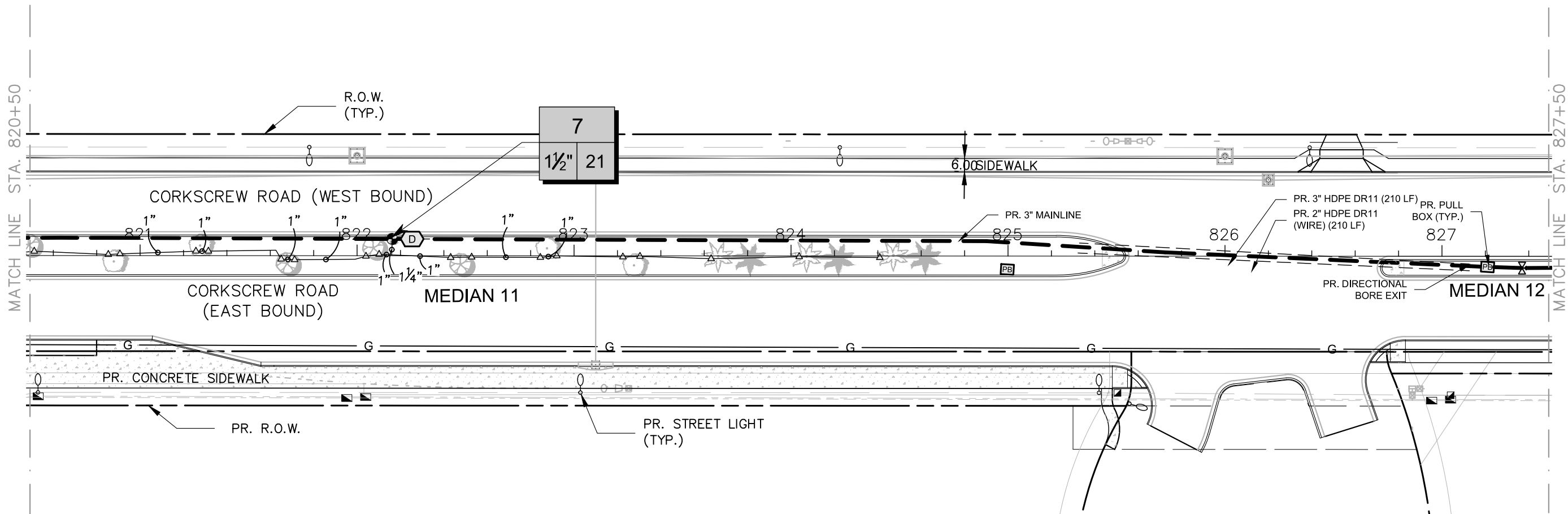
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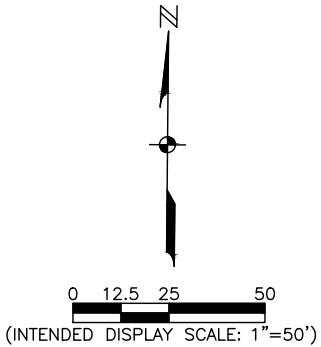
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L21
					C.R. 850		####		
								STA.820+50 TO STA. 827+50	

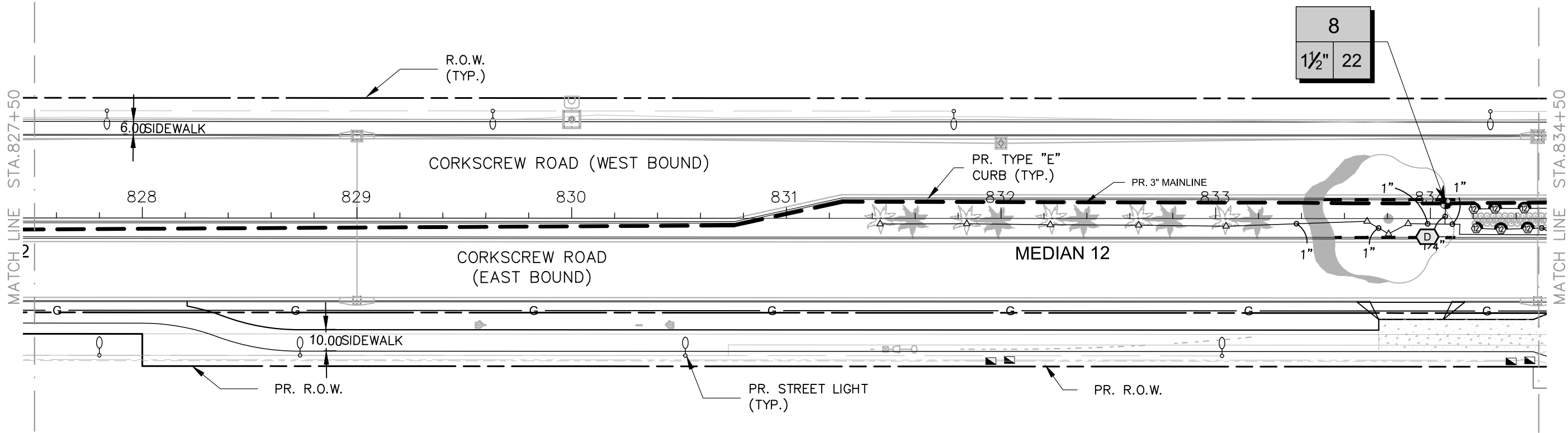
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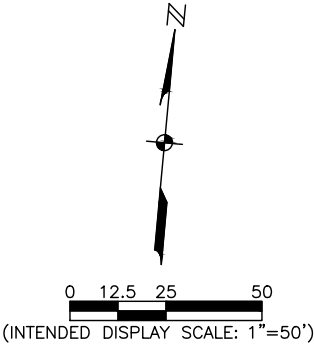
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L22
					C.R. 850		####	STA. 827+50 TO STA. 834+50	

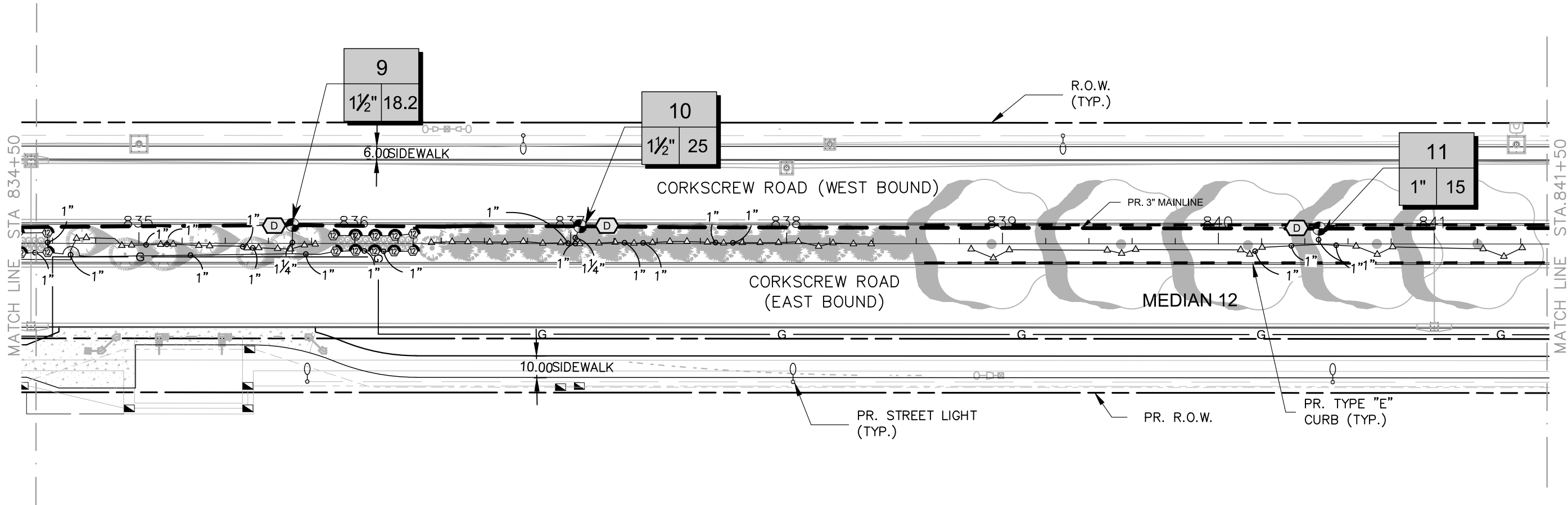
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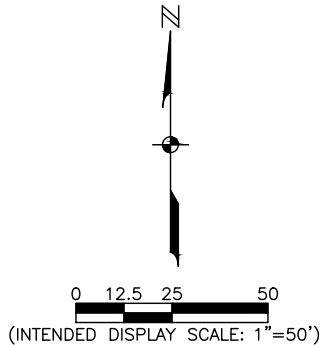
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L23
					C.R. 850		####	STA. 834+50 TO STA. 841+50	

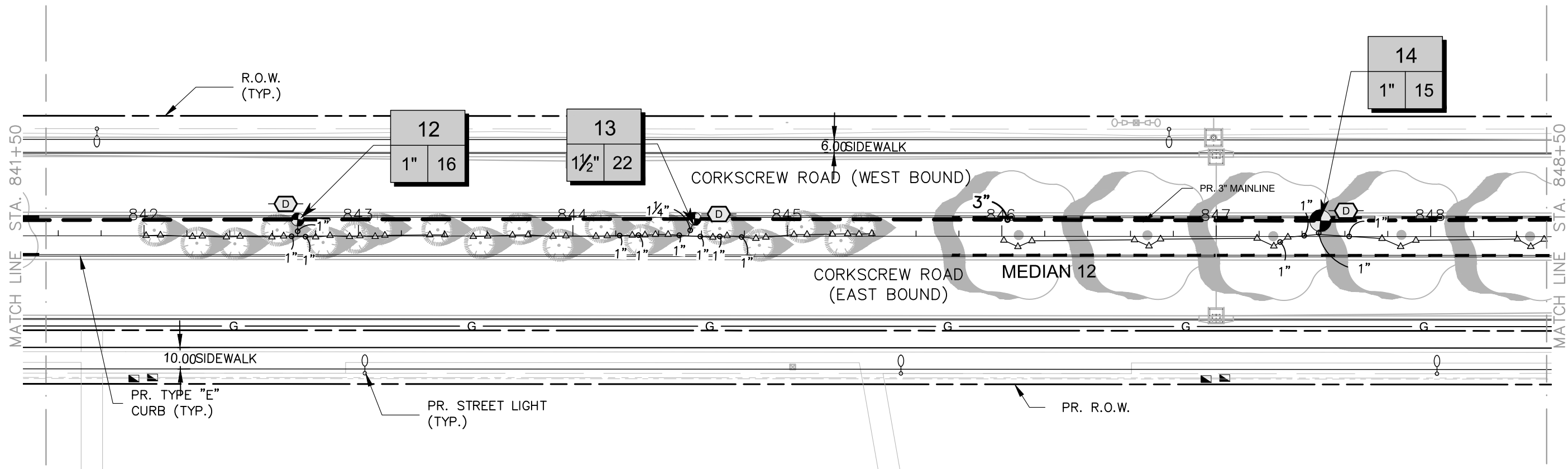
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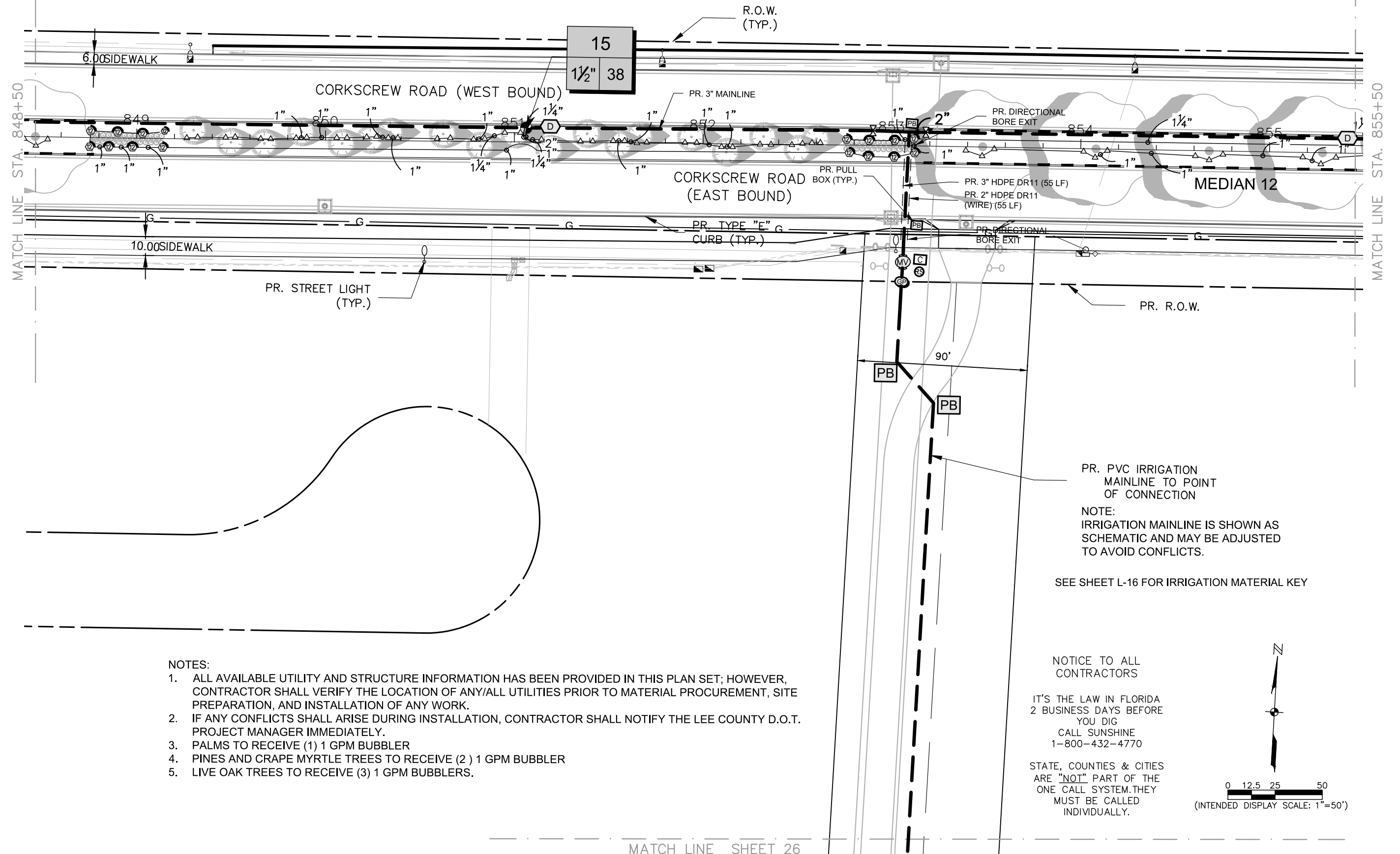


SEE SHEET L-16 FOR IRRIGATION MATERIAL KEY



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REVISIONS				<div>JOHNSON</div> <div>ENGINEERING</div> <div>2122 JOHNSON STREET</div> <div>FORT MYERS, FL 33901</div> <div>EB 642 & LB 642</div> <div>RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		####	STA.841+50 TO STA. 848+50	L24



REVISIONS				<div><div>JOHNSON</div><div>ENGINEERING</div><div>2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. RFLJ, P.E., NO. 60010</div></div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					C.R. 850		####	STA.848+50 TO STA. 855+50	L25	

CRITICAL ANALYSIS

Generated: 2021-07-19 13:51

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 3"
Flow Available: 122.84 gpm

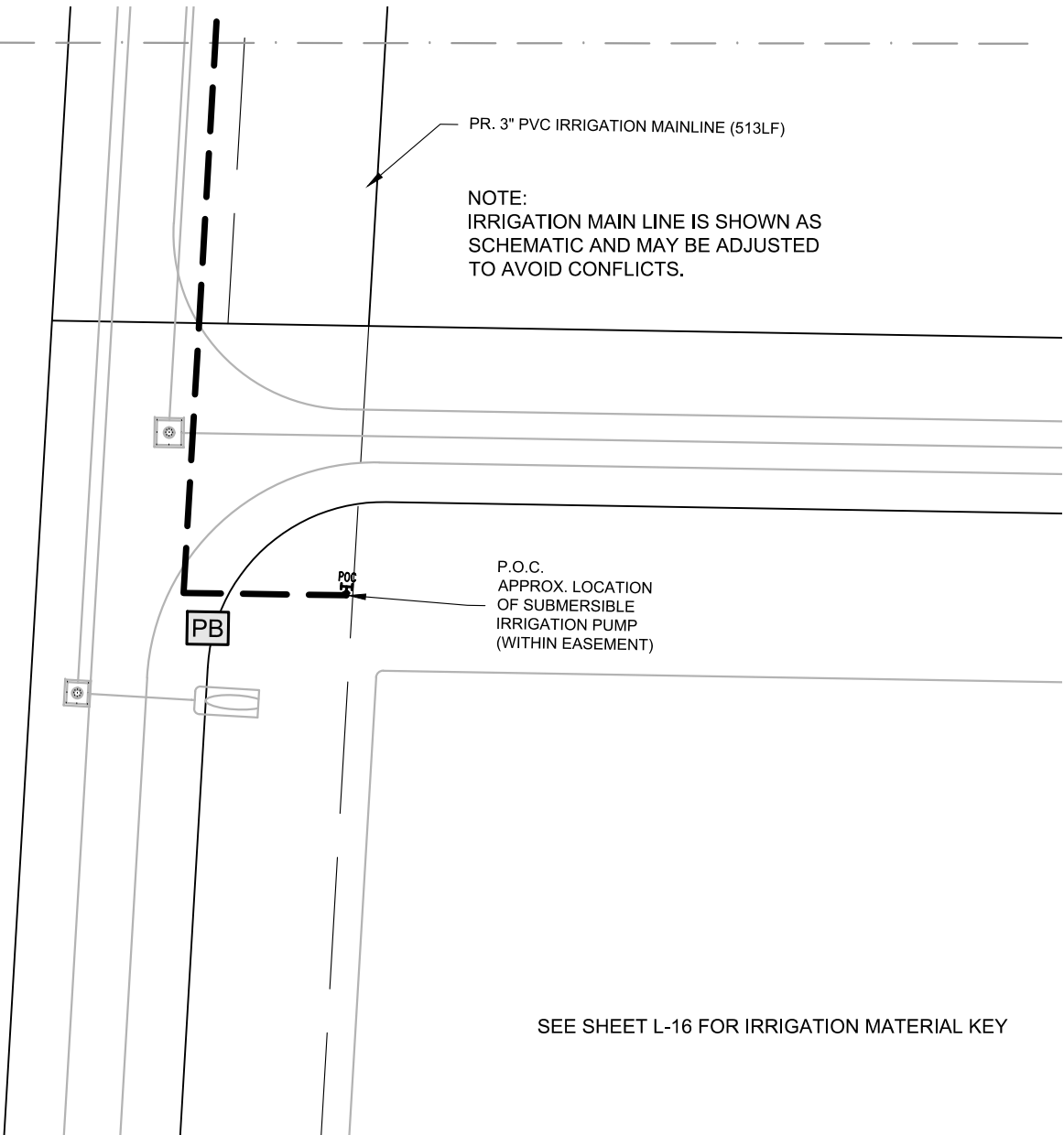
PRESSURE AVAILABLE
Static Pressure at POC: 70.00 PSI
Pressure Available: 70.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 49.40 gpm
Flow Available at POC: 122.84 gpm
Residual Flow Available: 73.44 gpm

Critical Station: 5
Design Pressure: 30.00 psi
Friction Loss: 5.21 psi
Fittings Loss: 0.52 psi
Elevation Loss: 0.00 psi
Loss through Valve: 2.11 psi
Pressure Req. at Critical Station: 37.84 psi
Loss for Fittings: 0.00 psi
Loss for Main Line: 12.80 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Loss for Master Valve: 6.80 psi
Critical Station Pressure at POC: 57.44 psi
Pressure Available: 70.00 psi
Residual Pressure Available: 12.56 psi

NOTE: 10 HP, 6" SUBMERSIBLE PUMP AS NOTED IN TECHNICAL SPECIFICATIONS. CONTRACTOR TO VERIFY IRRIGATION PUMP LOCATION WITH LCDOT PROJECT MANAGER PRIOR TO INSTALLATION. LOCATION SHOWN IS APPROXIMATE. PUMP INTAKE TO BE SET 3' OFF BOTTOM OF LAKE. NO IRRIGATION PUMP DESIGN INCLUDED WITH THIS PLAN.
SEE CRITICAL ANALYSIS FOR PUMP REQUIREMENTS TO COMPLETE PUMP DESIGN. CONTRACTOR TO COORDINATE ELECTRICAL CONNECTION, ALL REQUIRED PERMITS (INCLUDING A WATER USE PERMIT), ASSOCIATED WITH PROVIDING AN AUTOMATIC IRRIGATION SYSTEM AND POWER TO PUMP / CONTROLLER. COUNTY TO PROVIDE CONTRACTOR DIRECTION ON LOCATION OF PUMP FILTER DISCHARGE.

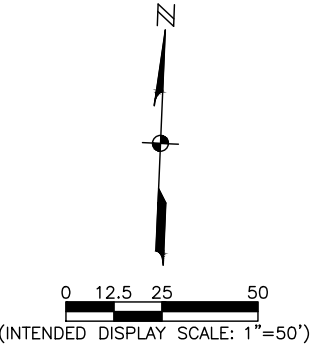
MATCH LINE SHEET L25



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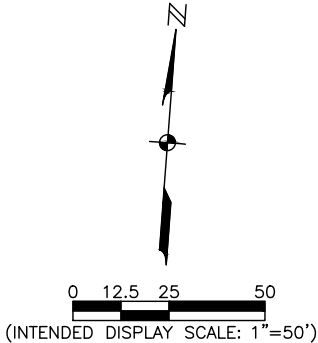


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L26
					C.R. 850		####		
STA. 853+10 TO P.O.C.									

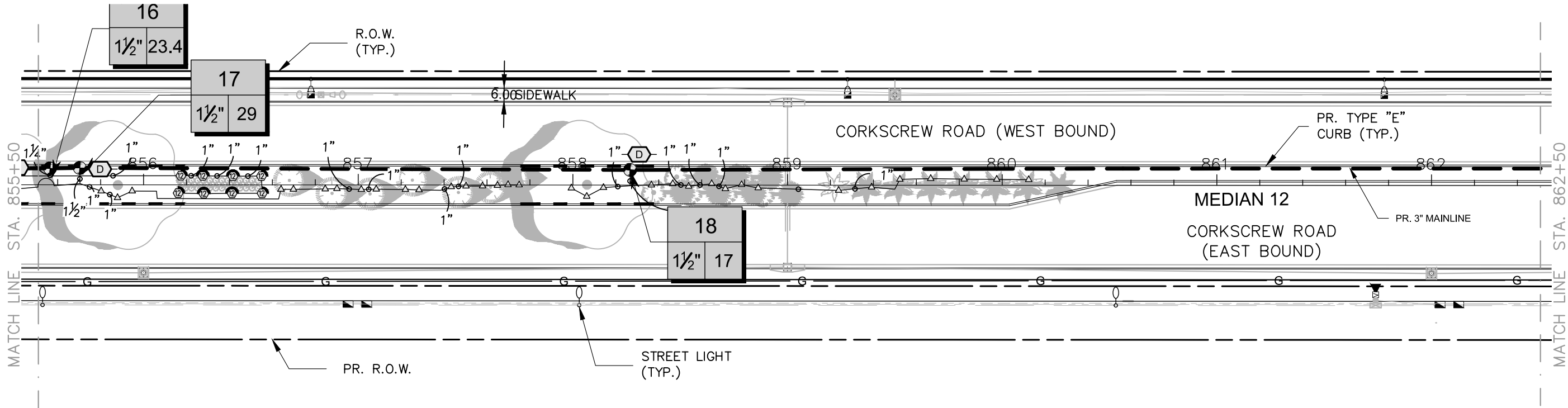
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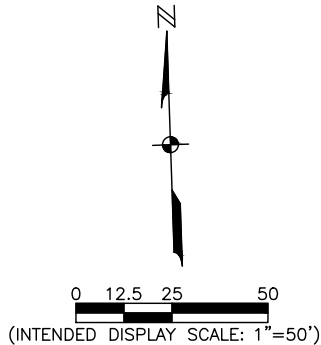
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 3. PALMS TO RECEIVE (1) 1 GPM BUBBLER
 4. PINES AND CRAPE MYRTLE TREES TO RECEIVE (2) 1 GPM BUBBLER
 5. LIVE OAK TREES TO RECEIVE (3) 1 GPM BUBBLERS.

REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L27
					C.R. 850		####	STA.855+50 TO STA. 862+50	

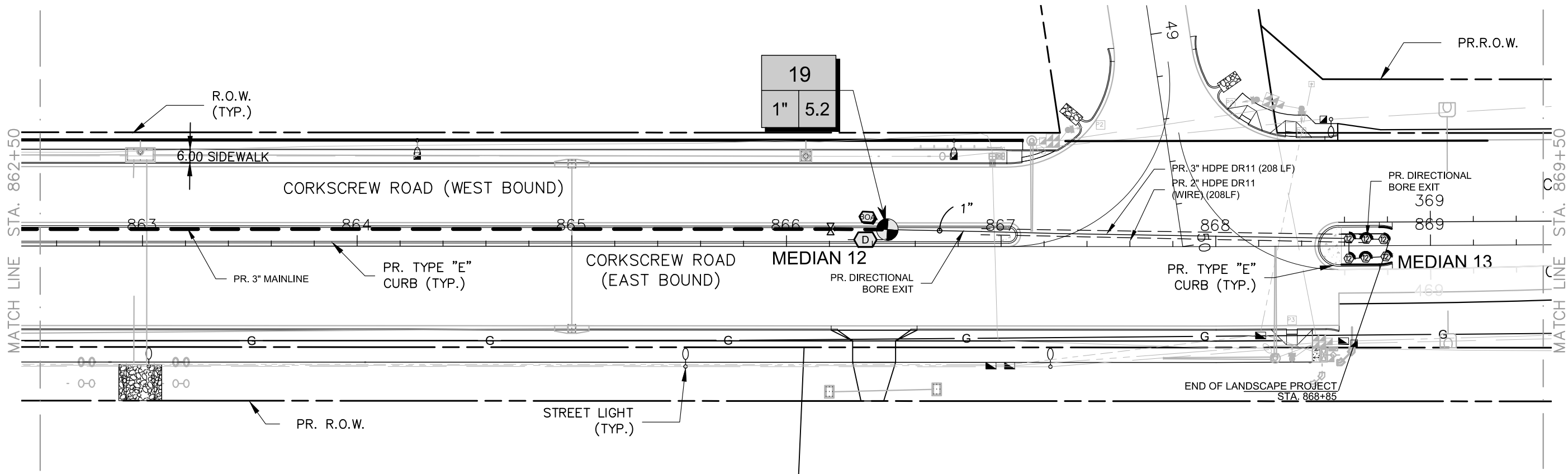
NOTICE TO ALL CONTRACTORS

IT'S THE LAW IN FLORIDA
2 BUSINESS DAYS BEFORE
YOU DIG
CALL SUNSHINE
1-800-432-4770

STATE, COUNTIES & CITIES
ARE "NOT" PART OF THE
ONE CALL SYSTEM.THEY
MUST BE CALLED
INDIVIDUALLY.



SEE SHEET L-16 FOR IRRIGATION MATERIAL KEY

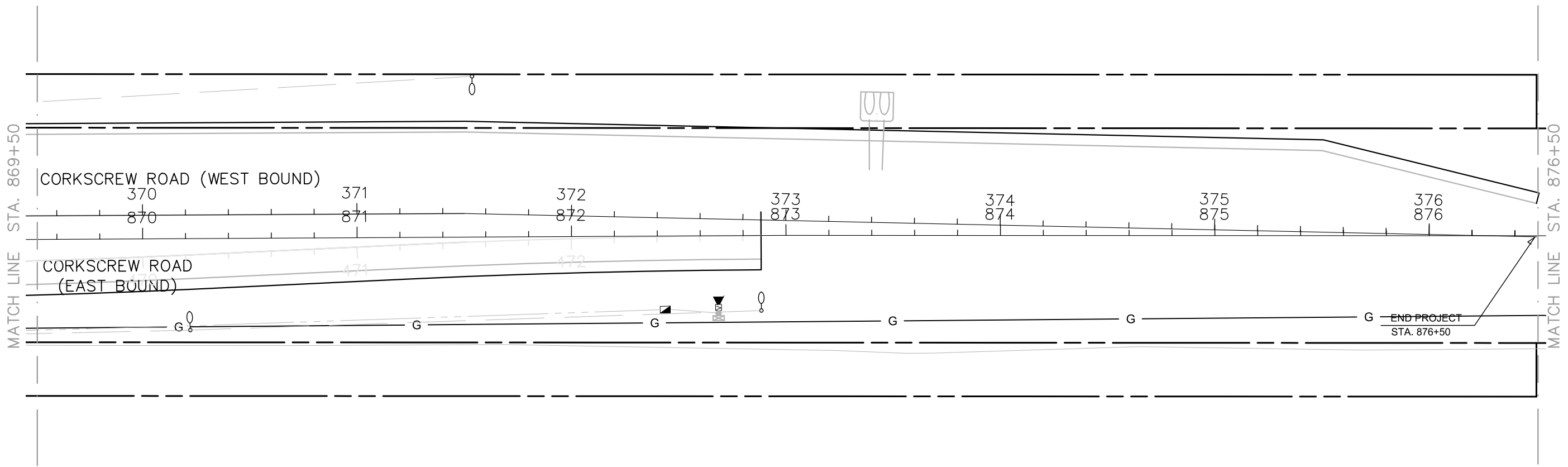
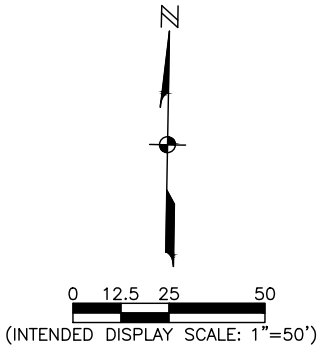


- NOTES:
- ALL AVAILABLE UTILITY AND STRUCTURE INFORMATION HAS BEEN PROVIDED IN THIS PLAN SET; HOWEVER, CONTRACTOR SHALL VERIFY THE LOCATION OF ANY/ALL UTILITIES PRIOR TO MATERIAL PROCUREMENT, SITE PREPARATION, AND INSTALLATION OF ANY WORK.
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		####		

STA. 862+50 TO STA. 869+50

NO IRRIGATION THIS SHEET



REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		####	STA.869+50 TO STA. 876+50	L29

IRRIGATION NOTES

1.

THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
2.

THE COMPLETED IRRIGATION SYSTEM SHALL FULLY OPERATIONAL AND INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL PREVAILING LOCAL CODES, ORDINANCES, AND REGULATIONS.
3.

CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS, BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THE PLANS - CONTRACTOR TO VERIFY. COORDINATE ALL IRRIGATION SYSTEM CONSTRUCTION WITH EXISTING AND NEW PLANTINGS TO AVOID CONFLICT OR INTERFERENCE WITH LOCATION OF PIPING, SLEEVEING, CABLES, AND SERVICE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS. ALL COMPONENTS THAT ARE NOT CONTAINED WITHIN THE SPECIFIC AREAS SHOWN OR CALLED OUT ON THE DRAWINGS WILL NOT BE ACCEPTED. ALL PIPING AND OTHER COMPONENTS ARE TO REMAIN WITHIN THE PROPERTY OF THE OWNER.
4.

WHERE EXISTING OR NEW TREES, LIGHT STANDARDS, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY (A MIN. OF 10 L.F. OF SEPARATION FROM ALL UNDERGROUND UTILITIES) TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION. OWNER'S REPRESENTATIVE SHALL DETERMINE WHETHER AN OBSTRUCTION OCCURS OR NOT.
5.

COMPONENT SPACING AS SHOWN ARE MAXIMUMS. DO NOT EXCEED SPACING SHOWN OR NOTED ON THE PLANS. COMPONENT SPACING MAY BE ADJUSTED TO ACCOMMODATE CHANGES IN TERRAIN AND PLANTING LAYOUT AS LONG AS THE MODIFIED SPACING DOES NOT EXCEED THE SPACING SHOWN IN THE PLANS. UNLESS SHOWN OTHERWISE, CONTRACTOR SHALL PROVIDE 100% COVERAGE.
6.

ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS DETAILED ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE

- THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THEIR MANUFACTURER.

7.

THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
8.

IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS, CONTROLLER AND OTHER DEVICES TO OBTAIN SPECIFIED OPERATING PARAMETERS, INCLUDING COVERAGE, OPERATING PRESSURE, FLOW RATES AND OPERATION TIME, AS INDICATED ON THE DRAWINGS AND IN THE IRRIGATION SYSTEM SPECIFICATIONS.
9.

CONTRACTOR TO PROVIDE INSTALLATION SHOP DRAWINGS AND MANUFACTURER PRODUCT INFORMATION FOR ALL IRRIGATION COMPONENTS, FOR APPROVAL PRIOR TO INSTALLATION. ALL INSTALLATIONS SHALL BE AS RECOMMENDED BY MANUFACTURERS. THE QUANTITIES SHOWN IN THE LEGENDS AND SYMBOL SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.
10.

ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN, DEBRIS-FREE MATERIALS. CLEAN SAND SHALL BE USED FOR BEDDING MATERIAL IF PARENT SOIL CANNOT BE ADEQUATELY RID OF ROCK AND OTHER EXTRANEIOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.
11.

ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMMENDED BY THE MANUFACTURER.
23.

ALL PVC SLEEVES SHALL BE JOINED WITH GLUE FITTINGS. ANY GASKETED JOINTS WILL BE REJECTED.
24.

DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM, DECODERS SHALL BE PROGRAMMED TO THE CONTROLLER STATION AS PER THE IRRIGATION ZONE NUMBER. CONTRACTOR TO LABEL ALL VALVE BOX COVERS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER. NUMBERING SIZE 1". PROVIDE TAGS TO ALL VALVES AS SHOWN PER DETAILS.
25.

CONTRACTOR TO PLACE TREE BUBBLERS AT OUTER EDGE OF ROOT BALL, NOT OUTER EDGE OF PLANTING HOLE. TREE BUBBLERS TO BE VISIBLE FOR INSPECTION.
26.

PIPING INCLUDING MAINLINES AND LATERALS SHALL BE COLOR CODED PANTONE PURPLE 522C FOR FUTURE CONVERSION OF THE SYSTEM TO REUSE WATER PER COUNTY ORDINANCES AND STATE STATUTES. THE IRRIGATION SYSTEM COMPONENTS SHALL BE COMPATIBLE FOR USE WITH REUSE WATER AND FLORIDA ADMINISTRATIVE CODE 62-610 REUSE OF RECLAIMED WATER AND LAND APPLICATION. ALL VALVES, VALVE BOX COVERS, AND OTHER APPLICABLE EQUIPMENT SHALL BE COLOR CODED PANTONE PURPLE 522C.
27.

THE TWO-WIRE PATH SHALL BE PAIGE ELECTRIC AWG 12-2 BLACK COMMUNICATION WIRE LAID BELOW THE IRRIGATION MAINLINE. ALL WIRE PATHS THAT GO TO THE NORTH OR WEST OF THE CONTROLLER SHALL BE ID2-BLU (BLUE). ALL WIRE PATHS THAT GO TO THE SOUTH OR EAST OF THE CONTROLLER SHALL BE ID2-ORG (ORANGE).
28.

ALL CONNECTIONS FROM THE 2-WIRE PATH TO THE DECODERS GROUND RODS, GROUND PLATES AND CONTROLLER SHALL BE WITH 3M DBR-6 WIRE

- CONNECTORS. ALL CONNECTIONS BETWEEN THE SOLENOID VALVES AND DECODERS SHALL BE WITH HIT DBC-Y CONNECTORS. WHERE ADDITIONAL WIRE IS REQUIRED FROM THE DECODER TO THE CONTROL VALVE SOLENOID, THE WIRE SHALL BE DIRECT BURIAL STANDARD PAIR 14 AWG.
29.
- ELECTRICAL CONNECTIONS: CONTRACTOR WILL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTION(S) TO THE ELECTRICAL SUPPLY(S). THE ELECTRICAL CONNECTION FOR EACH PUMP STATION WILL BE WITHIN 25' OF THE DESIGNATED WELL/PUMP LOCATION(S) AS SHOWN ON THE IRRIGATION PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ALL PROJECT RELATED ELECTRICAL CONNECTIONS BEYOND THIS POINT FOR THE PUMP STATION AND IRRIGATION SYSTEM EQUIPMENT.
30.
- ALL CONNECTIONS TO THE IRRIGATION MAINLINE (2 1/2" OR LARGER) SHALL BE ACCOMPLISHED VIA THE USE OF DUCTILE IRON SERVICE TEES. ALL CHANGES OF DIRECTION SHALL BE ACCOMPLISHED VIA THE USE OF DUCTILE IRON 45 DEGREE ELBOWS W/ PROPER THRUST BLOCKING.
31.
- LOCATE ALL VALVES IN PLANTING BEDS OR MULCHED AREAS WITH A MINIMUM OFFSET OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT. VALVES LOCATED IN MEDIANS SHALL BE INSTALLED AS CLOSE TO THE MEDIAN CENTER AS POSSIBLE.
32.
- ALL VALVES (SOLENOID, GATE, ISOLATION, AIR RELIEF AND FLUSH), SURGE PROTECTORS AND FILTERS SHALL BE LOCATED WITHIN THE SPECIFIED VALVE BOXES AS SHOWN ON THE VALVE BOX SIZING TABLE.
33.
- ALL PULL BOXES SHALL CONTAIN A MIN. OF 6' OF SLACK COILED VALVE WIRES WITHOUT ANY SPLICES.
34.
- IRRIGATION COMMUNICATION CABLE SHALL HAVE IT'S OWN SEPARATE SCH 80 PVC CONDUIT UNLESS NOTED OTHERWISE. ELECTRICAL CONNECTING WIRE BETWEEN POINT OF CONNECTION AND CONTROLLER SHALL BE INSTALLED IN ITS OWN SCH. 80 PVC CONDUIT. WIRE FROM THE POINT OF CONNECTION TO THE CONTROLLER SHALL BE IN CONDUIT FOR ITS ENTIRE LENGTH.
35.
- SWEEPS SHALL BE PROVIDED FOR ALL WIRES TO CONNECT CONDUIT TO VALVE BOXES.
36.
- ALL PROPOSED IMPERVIOUS SURFACE IRRIGATION PIPE CROSSINGS WILL BE DIRECTIONAL BORE PIPE INSTALLATIONS TO BE COMPLETED BY CONTRACTOR FOLLOWING COMPLETION OF ROADWAY CONSTRUCTION. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL DIRECTIONAL BORES, UNLESS OTHERWISE NOTED.
37.
- ALL UN-SIZED PIPE SHALL BE MINIMUM 1".
38.
- EACH TREE AND PALM SHALL HAVE TWO (2) PRESSURE COMPENSATING FLOOD BUBBLERS (OR AS SHOWN ON THE PLANS). EACH BUBBLER SHALL BE ON A MINIMUM 5'-0" LENGTH OF FUNNY PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLERS ON THE UPHILL SIDE OF TREES ON ALL SLOPES. LOCATE BUBBLERS IN THE CENTER OF THE ROOTBALL AND EQUAL DISTANCE APART.
39.
- DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM, DECODERS SHALL BE PROGRAMMED TO THE CONTROLLER STATION AS PER THE IRRIGATION ZONE NUMBERS.
40.
- PER MANUFACTER'S DIRECTIONS, THE IRRIGATION CONTRACTOR SHALL INSTALL A CONTINUOUS COLOR CODED DETECTABLE METAL MARKING TAPE IN CONJUNCTION WITH ALL MAINLINE IRRIGATION PIPE LOCATIONS, 12" BELOW FINISHED GRADE, WHICH CLEARLY NOTES: "CAUTION: WATER LINE BURIED

- BELOW". FOR FUTURE LOCATING PURPOSES. TAPE SHALL BE MANUFACTURED BY LINEGUARD, INC., OR APPROVED EQUAL.
37.
- ALL VALVES SHALL BE LOCATED WITH REFLECTIVE PAVEMENT MARKERS (GREEN) ON EITHER SIDE OF THE MEDIAN.
38.
- AT EACH END OF EACH BORING THE CONTRACTOR SHALL INSTALL ONE OMNI LOCATER BALL PER BORING PER MANUFACTURER'S INSTRUCTIONS, AND NOTE ON AS-BUILTS THE LOCATIONS OF THE MARKERS AS INSTALLED.
39.
- IRRIGATION LATERAL LINES TO BE BURIED AT A DEPTH OF 24" UNLESS NOTED OTHERWISE.
40.
- IRRIGATION MAINLINES TO BE BURIED AT A DEPTH OF 36" UNLESS NOTED OTHERWISE.
41.
- ALL COMPONENTS INSTALLED BY THE IRRIGATION CONTRACTOR, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE EXACT LOCATION AND DEPTH BELOW FINISH GRADE OF ALL COMPONENTS SHALL BE NOTED ON THE "AS-BUILT" DRAWINGS. EACH POINT OF IRRIGATION SHALL BE MEASURED FROM 2 FIXED POINTS OF REFERENCE.
42.
- IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE LANDSCAPE SUPERVISOR. WORK IN THE RIGHT OF WAY SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.
43.
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY FLOW OF VEHICULAR TRAFFIC AND COMPLETION OF ALL WORK ON THE SITE.
44.
- CONTRACTOR SHALL GRADE AND SOD ALL DISTURBED AREAS TO MATCH PRE-EXISTING CONDITIONS. RESTORATION WORK WILL PROVIDE A SMOOTH TRANSITION BETWEEN ALL DISTURBED AREAS TO EXISTING UNDISTURBED AREAS.
45.
- PIPE LOCATIONS SHOWN ARE SCHEMATIC. THE MAINLINE SHALL BE INSTALLED 36" FROM THE EDGE OF PAVEMENT BUT NO CLOSER THAN 12". THE CONTRACTOR IS RESPONSIBLE FOR LOCATION ADJUSTMENTS WHEN NECESSARY TO AVOID CONFLICTS.
46.
- ALL PROPOSED SLEEVES THAT CONNECT MEDIANS FROM NOSING TO NOSING SHALL EXTEND A MIN. OF 7' INTO THE PROPOSED 4-LANE PHASE OF THE MEDIAN LANDSCAPE BEDS.
47.
- BACKFLUSH FILTER DRAIN PIPE SHALL DISCHARGE INTO WILD BLUE WATER BODY (UNLESS OTHERWISE DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE). THE SEPARATION DISTANCE BETWEEN THE WATER SOURCE INTAKE PIPE AND THE FILTER BACKFLUSH DISCHARGE PIPE SHALL BE A MINIMUM OF 60 (SIXTY) LINEAR FEET.
48.
- CONTRACTOR SHALL PROVIDE SUPPLEMENTAL IRRIGATION OF ALL PROPOSED LANDSCAPE MATERIALS REGARDLESS OF AVAILABILITY OF ELECTRICAL POWER. USE OF WATERING BAGS ON PLANTS IS NOT AN ACCEPTABLE ALTERNATIVE.

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.
3.

ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS.
4.

TURN OVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
5.

TURN OVER OF THE "IRRIGATION MANUAL" AS OUTLINED IN THE PROJECT SPECIFICATIONS.

GUARANTEE: THE IRRIGATION SYSTEMS SHALL BE GUARANTEED TO BE FULLY OPERATIONAL AND AUTOMATIC FOR A MINIMUM OF ONE CALENDAR YEAR FROM THE TIME OF FINAL ACCEPTANCE.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1.

EVERY IRRIGATION ZONE SHOULD BE CHECKED MONTHLY AND WRITTEN REPORTS GENERATED DESCRIBING THE DATE(S) EACH ZONE WAS INSPECTED, PROBLEMS IDENTIFIED, DATE PROBLEMS REPAIRED, AND A LIST OF MATERIALS USED IN THE REPAIR. AT MINIMUM, THESE INSPECTIONS SHOULD INCLUDE THE FOLLOWING TASKS:

1.1.

TURN ON EACH ZONE FROM THE CONTROLLER TO VERIFY AUTOMATIC OPERATION.

1.2.

CHECK SCHEDULES TO ENSURE THEY ARE APPROPRIATE FOR THE SEASON, PLANT AND SOIL TYPE, AND IRRIGATION METHOD. CONSULT AN I.A. CERTIFIED AUDITOR FOR METHODS USED IN DETERMINING PROPER IRRIGATION SCHEDULING REQUIREMENTS.

1.3.

CHECK REMOTE CONTROL VALVE TO ENSURE PROPER OPERATION.

1.4.

CHECK SETTING ON PRESSURE REGULATOR TO VERIFY PROPER SETTING, IF PRESENT.

1.5.

CHECK FLOW CONTROL AND ADJUST AS NEEDED; ENSURE VALVE CLOSURE WITHIN 10-15 SECONDS AFTER DEACTIVATION BY CONTROLLER.

1.6.

CHECK FOR LEAKS - MAINLINE, LATERAL LINES, VALVES, HEADS, ETC.
2.

CHECK CONTROLLER/C.C.U. GROUNDS FOR RESISTANCE (10 OHMS OR LESS) ONCE PER YEAR. SUBMIT WRITTEN REPORTS.
3.

CHECK RAIN SHUT-OFF DEVICE MONTHLY TO ENSURE IT FUNCTIONS PROPERLY.
4.

INSPECT ALL FILTERS MONTHLY AND CLEAN/REPAIR/REPLACE AS NEEDED.
5.

INSPECT BACKFLOW DEVICES BY UTILIZING A PROPERLY LICENSED BACKFLOW INSPECTOR. THIS SHOULD BE DONE ANNUALLY, AT MINIMUM.
6.

INSPECT ALL VALVE BOXES TO ENSURE THEY ARE IN GOOD CONDITION, LIDS ARE IN PLACE AND LOCKED.
7.

CHECK CONTROLLER STATIONS FOR PROPER OPERATION, PRESSURES, FILTRATION, SETTINGS, ETC. - REFER TO PUMP STATION OPERATIONS MANUAL.
8.

CHECK AND CLEAN INTAKE SCREENS ON ALL SUCTION LINES QUARTERLY, AT MINIMUM. CLEAN AND/OR REPAIR, AS NEEDED.
9.

CONDUCT ADDITIONAL INSPECTIONS, MAINTENANCE TASKS, ETC. THAT ARE PARTICULAR FOR YOUR Site.

Carson Spec Valve Box
Rectangle 12 in. x 20 in. x 12
in.H Purple Box/Purple Lid
Overlapping RWDNDES w/Bolt

CDR-VALVE BOX NUMBER A10-1015-12	CDR-VALVE BOX NUMBER A10-1118-12	CDR-VALVE BOX NUMBER A10-1118-18
GROUND RODS & PLATES	ELECTRIC SOLENOID VALVE & GATE VALVE	ELECTRIC SOLENOID VALVE &
QUICK COUPLING VALVE	Carson Spec Valve Box	PRESSURE REDUCING VALVE
MAINLINE GATE/ISOLATION VALVE	Rectangle 12 in. x 20 in. x 12	
MAINLINE AIR RELIEF VALVE	in.H Purple Box/Purple Lid	
PRESSURE GAUGE CHECK POINTS	Overlapping RWDNDES w/Bolt	
CDR-VALVE BOX NUMBER A10-1324-12	CDR-VALVE BOX NUMBER WA00-1132-12	CDR-VALVE BOX NUMBER A10-1324-18
WHEN A JUMBO BOX IS REQUIRED	GATE/ISOLATION VALVE	GATE/ISOLATION VALVE & LARGE DISC
Carson Spec Valve Box	SMALL DISC FILTER	FILTER (1 1/2" OR 2" SUPER FILTER), W/
Rectangle 12 in. x 20 in. x 12	ELECTRIC SOLENOID VALVE	SOLENOID VALVE & PRESSURE REDUCING
in.H Purple Box/Purple Lid	PRESSURE REDUCING VALVE	VALVE. *INSTALL SOLENOID VALVE AND
Overlapping RWDNDES w/Bolt		PRESSURE REDUCING VALVE IN MODEL
		A10-1118-18 VALVE BOX-
CARSON VALVE BOX NUMBER 910 - AIR RELIEF VALVE, LINE FLUSHING VALVE		

- NOTES:
1.

CDR VALVE BOXES SHALL BE POLYMER/CONCRETE WITH PURPLE LIDS STAMPED LEE COUNTY IRRIGATION
2.

CARSON VALVE BOXES SHALL BE CONSTRUCTION GRADE WITH PURPLE LIDS
3.

VALVE BOXES SHALL HAVE FILTER FABRIC SECURELY ATTACHED TO THE SIDES OF THE BOX AND HAVE 6" OF WASHED PEA GRAVEL ON TOP OF THE FILTER FABRIC INSIDE THE BOX
4.

PROVIDE A 2" MINIMUM AIR GAP BETWEEN THE TOP OF THE GRAVEL AND THE BOTTOM OF THE DEVICES, AND A 2" AIR GAP BETWEEN THE TOP OF THE DEVICES AND THE BOTTOM OF THE VALVE BOX COVER
5.

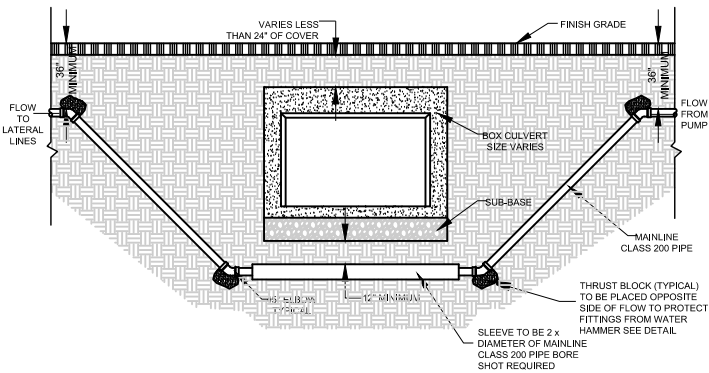
CONCRETE PAVERS OR BRICKS SHALL BE USED TO LEVEL AND SUPPORT THE VALVE BOX ON EACH SIDE

VALVE BOX SIZING TABLE

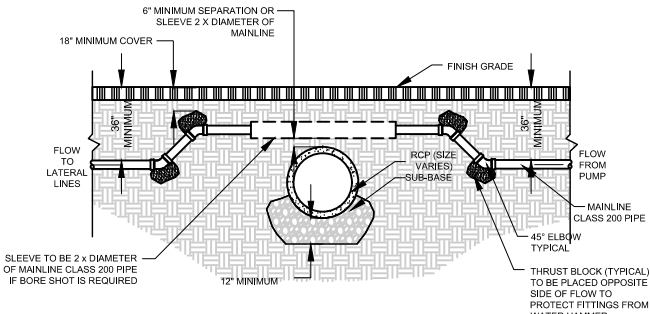
REVISIONS				<div>JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010</div>	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		
								L30	

IRRIGATION INSTALLATION DETAILS:

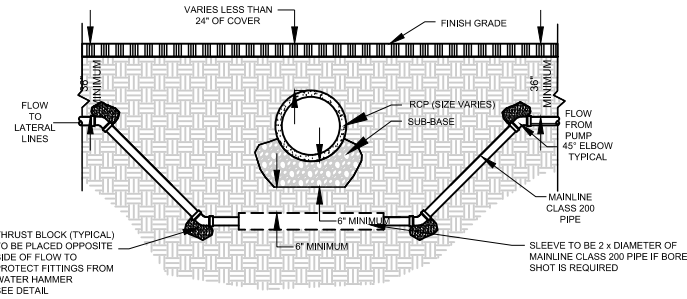
IRRIGATION DETAILS (Substitutions Only with Written Approval):



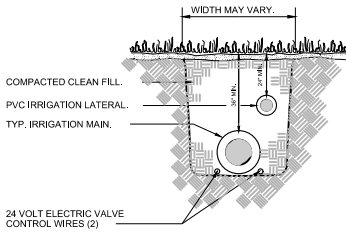
1 MAINLINE/LATERAL CULVERT CROSSING DETAIL -TYPICAL
NOTES:
THIS DETAIL REPRESENTS SOLUTION WHERE 36" OF COVER CAN BE ACHIEVED WHEN MAINLINE CROSSES A CULVERT.
N.T.S.



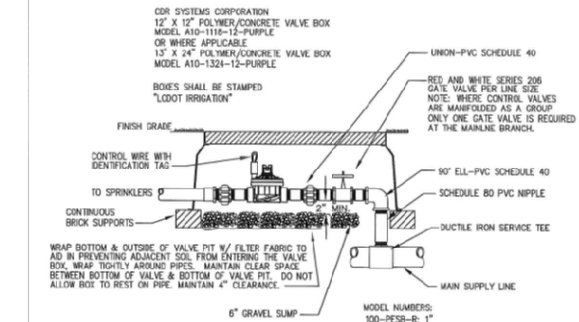
2 MAINLINE/LATERAL RCP CROSSING DETAIL -TYPICAL
NOTES:
THIS DETAIL REPRESENTS SOLUTION WHERE 36" OF COVER CAN BE ACHIEVED WHEN MAINLINE CROSSES A RCP.
N.T.S.



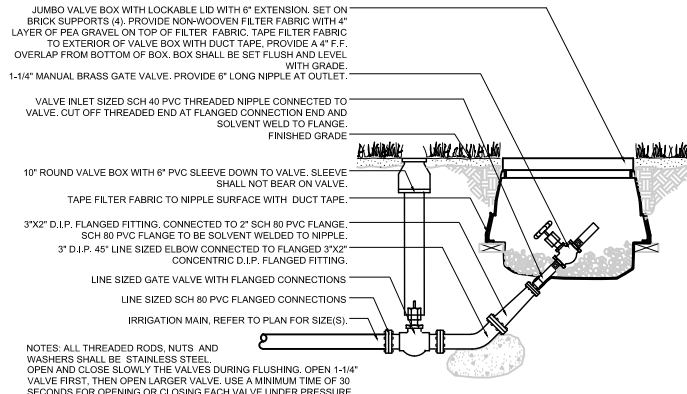
3 MAINLINE/LATERAL RCP CROSSING DETAIL -TYPICAL
NOTES:
1. THIS DETAIL REPRESENTS SOLUTION WHERE 36" OF COVER CANNOT BE ACHIEVED WHEN MAINLINE CROSSES A RCP.
2. BORE SHOT AND SLEEVE IS NECESSARY ONLY WHEN RCP IS 36" OR LARGER
N.T.S.



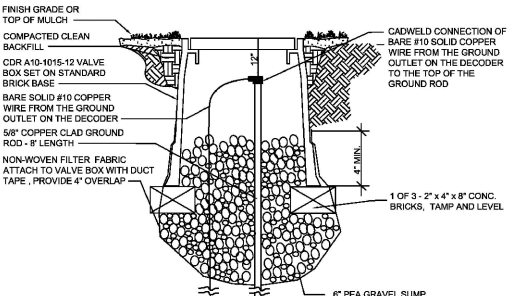
4 TRENCHING DETAIL -TYPICAL
NOTES:
PULLING PIPE IS PROHIBITED. ALL IRRIGATION PIPES AND ELECTRICAL WIRES SHALL BE IN SEPERATE SLEEVES.
ANY PIPE RUNNING UNDER ANY PAVED SURFACE SHALL BE SLEEVED WHETHER SHOWN OR NOT.
N.T.S.



5 RAIN BIRD PESS-R SERIES CONTROL VALVE
N.T.S.

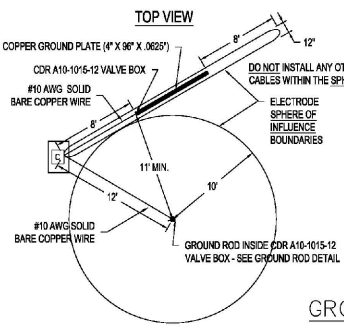


6 IRRIGATION MAIN BLOW OFF
N.T.S.

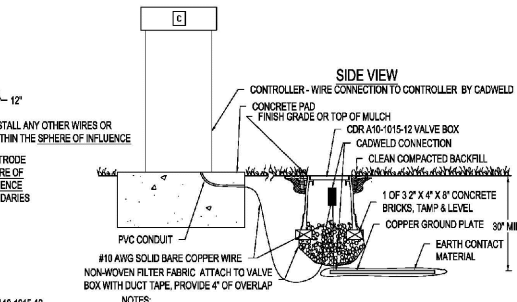


NOTES:
1. THE CONTRACTOR SHALL PROVIDE SURGE PROTECTION COMPATABLE WITH THE DECODERS LOCATED AT EACH SOLENOID VALVE.
2. THE IRRIGATION CONTROLLER AND LAST SOLENOID VALVE ON EACH TWO-WIRE PATH SHALL BE GROUNDED UTILIZING THE MANUFACTURERS RECOMMENDATIONS. SEE GROUND PLATE DETAIL.
3. ALL CONNECTIONS TO THE GROUNDING SOURCE SHALL BE MADE BY A CADWELD CONNECTION.
N.T.S.

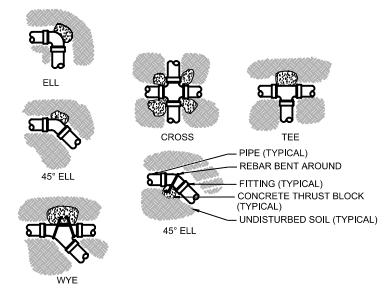
7 GROUND ROD -TYPICAL
N.T.S.



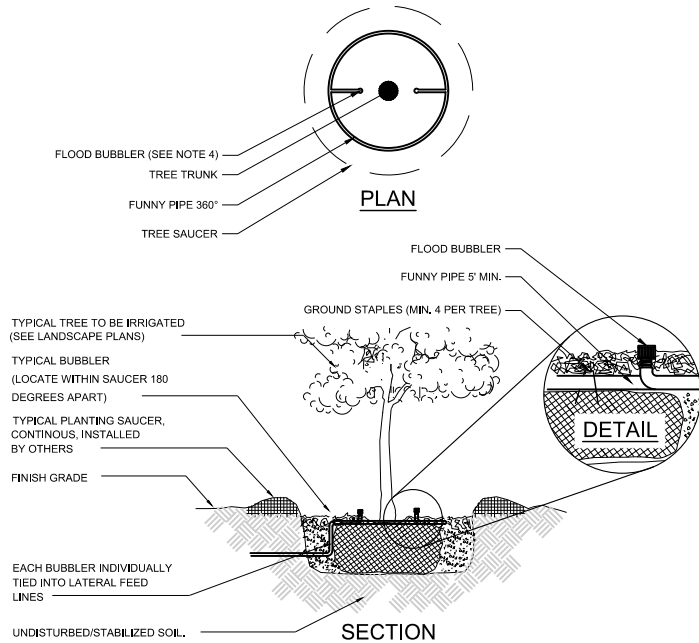
8 GROUND PLATE DETAIL -TYPICAL
N.T.S.



GROUND PLATE DETAIL
N.T.S.



9 THRUST BLOCK DETAILS -TYPICAL
N.T.S.



10 BUBBLER APPLICATION DETAIL
NOTES:
1. BUBBLERS ARE TO BE PLACED AT THE MIDPOINT BETWEEN THE EDGE OF THE ROOTBALL AND THE MAIN TRUNK, PER REQUEST BY OTHERS.
2. THE BUBBLERS SHALL BE PLACED 180\"/>

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON
ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FL 33901
EB 642 & LB 642
RYAN K. BELL, P.E. NO. 60010

LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
C.R. 850		XXXX

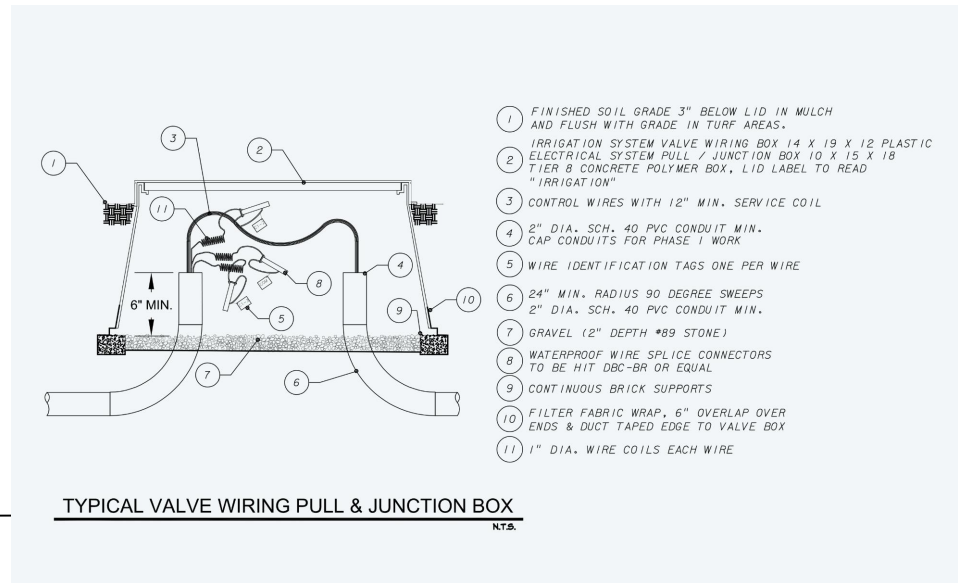
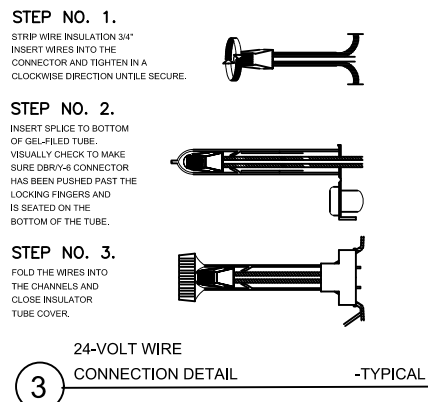
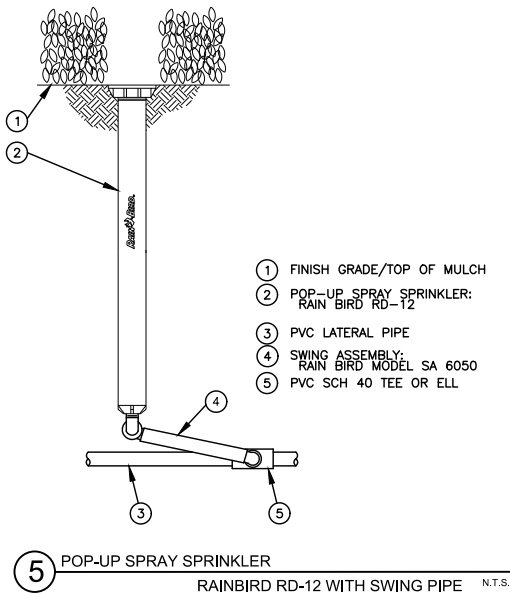
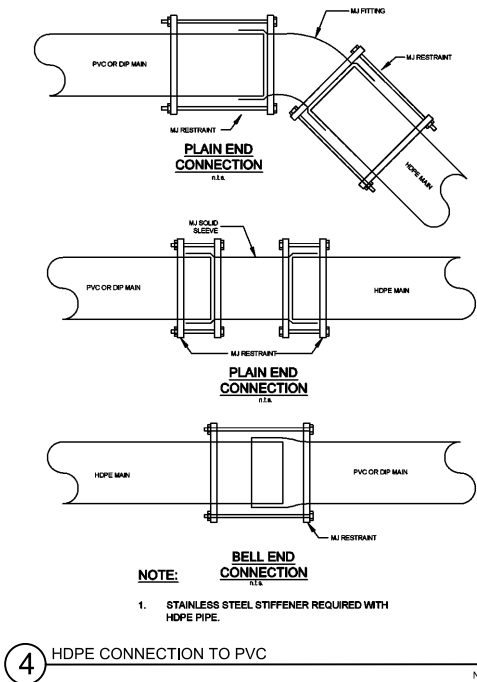
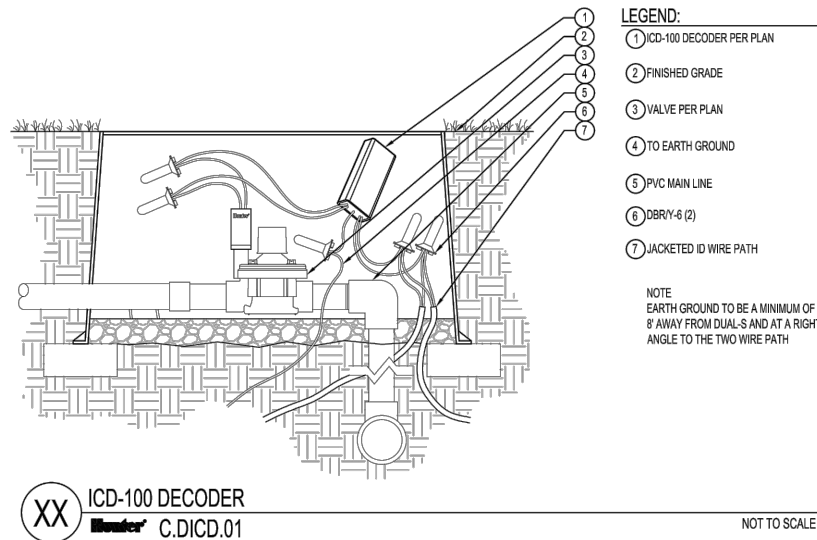
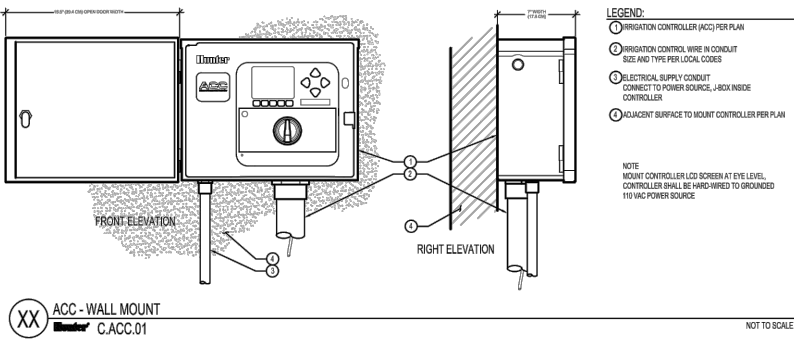
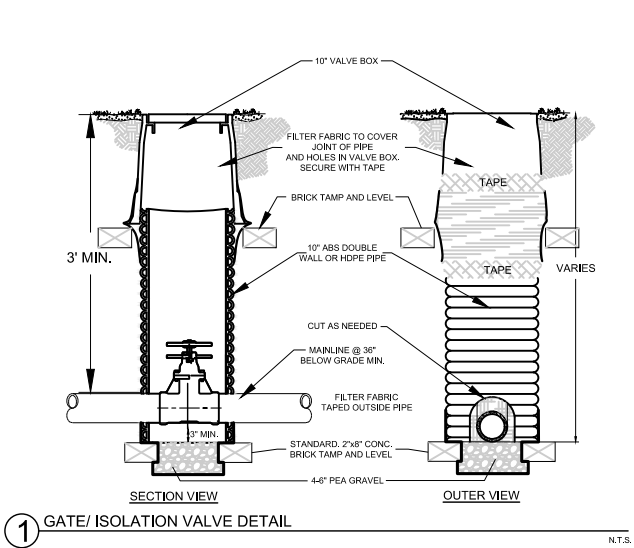
IRRIGATION DETAILS

SHEET
NO.

L31

IRRIGATION INSTALLATION DETAILS:

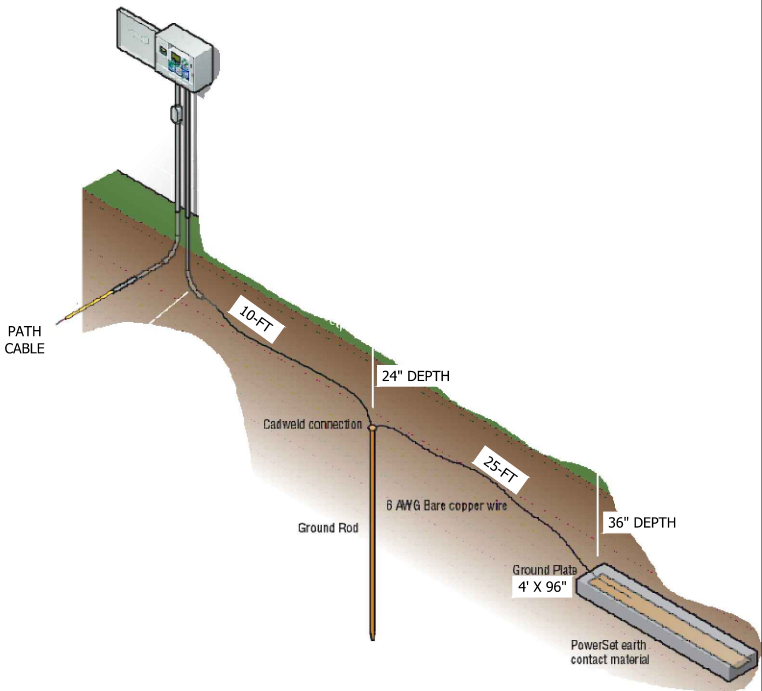
IRRIGATION DETAILS (Substitutions Only with Written Approval):



REVISIONS				JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					C.R. 850		XXXX		L32

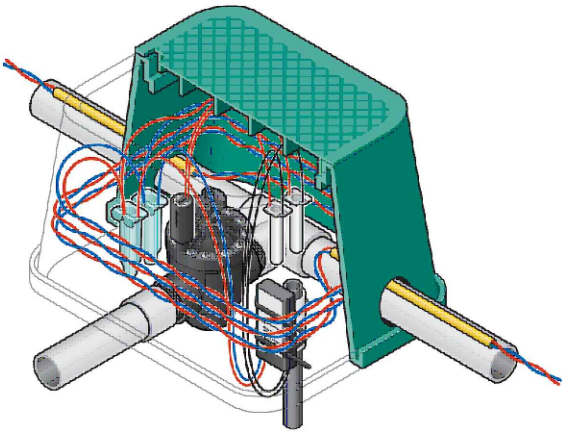
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IRRIGATION DETAILS (Substitutions Only with Written Approval):

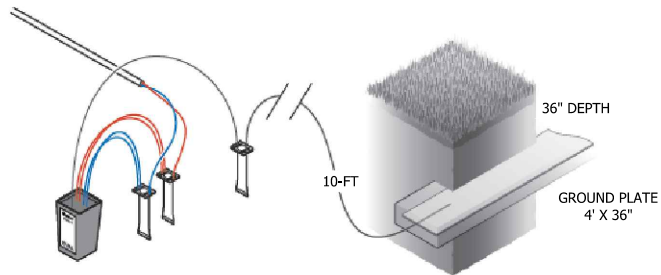


NOTES:
INSTALLATION OF GROUNDING COMPONENTS WILL BE PER MANUFACTURER'S RECOMMENDATIONS.

1 CONTROLLER GROUNDING N.T.S.



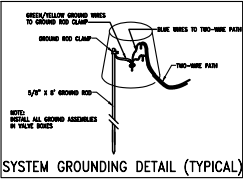
2 DECODER IN VALVE BOX (TYP.) N.T.S.



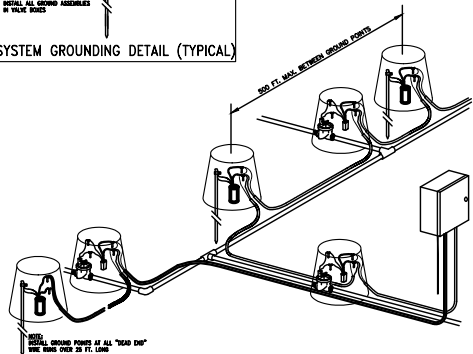
NOTES:
INSTALLATION OF GROUNDING COMPONENTS WILL BE PER MANUFACTURER'S RECOMMENDATIONS.

3 END-OF-LINE SURGE ARRESTOR WIRING AND GROUNDING (TYP.) N.T.S.

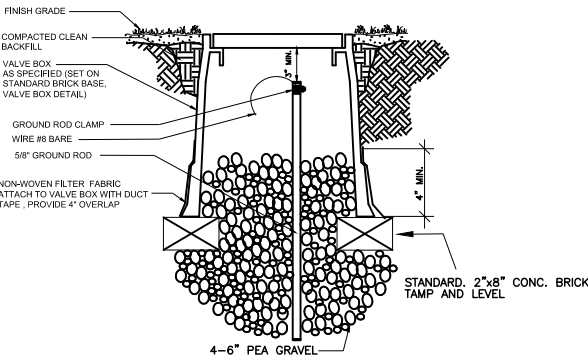
NOTES:
1. ALL WIRE CONNECTION SHALL BE MADE WITH APPROVED CONNECTORS.
2. MAKE ALL WIRE SPLICES IN VALVE BOXES.
3. LEAVE A MINIMUM OF 12" EXTRA WIRE AT ALL SPLICE POINTS.
4. TEST EVERY TO GROUND RESISTANCE AT ALL GROUND POINTS.
5. CAPS TO GROUND RESISTANCE MUST BE LESS THAN 50 OHMS.



SYSTEM GROUNDING DETAIL (TYPICAL)



5 SYSTEM GROUNDING (TYP.) N.T.S.



4 GROUND ROD SURGE PROTECTOR DETAIL N.T.S.

JEFFREY NAGLE, RLA
FL License No. LA-6667059

REVISIONS				JOHNSON ENGINEERING 2122 JOHNSON STREET FORT MYERS, FL 33901 EB 642 & LB 642 RYAN K. BELL, P.E. NO. 60010	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			IRRIGATION DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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