

CONSTRUCTION PLANS FOR STATE ROAD 292 BARRANCAS AVENUE BEAUTIFICATION

PREPARED FOR



ESCAMBIA COUNTY

BDI PROJECT No. 258103.01
APRIL 2018

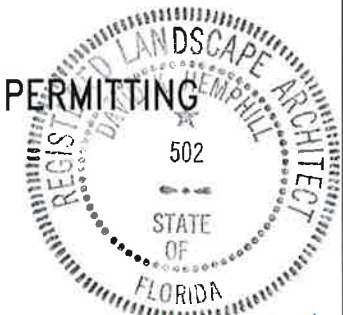
PREPARED BY

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000340

Pensacola - Panama City Beach - Melbourne - Tallahassee - Mobile

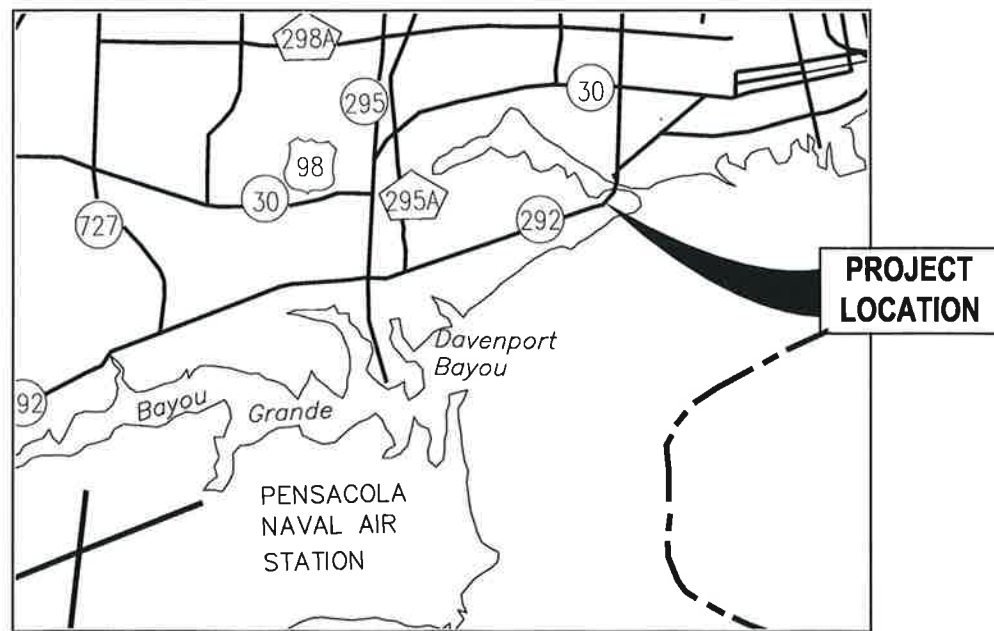
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David Kempbell
5.24.18

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VICINITY MAP
NOT TO SCALE



BILLBOARD SIGN LEGEND			
SIGN TAG	LOCATION	MILEPOST	OWNER
BS095/BS096	0.007 MILES WEST OF BROADMOOR DRIVE LAT: 30.3949880555556 LONG: 87.2529180555556	0.042	LAMAR ADVERTISING COMPANY
BV803/BV804	0.019 MILES EAST OF DIXON LANE LAT: 30.3998938888889 LONG: 87.2493969444444	0.454	LAMAR ADVERTISING COMPANY
BV807/BV808	0.004 MILES EAST OF OLD ALIGN EB - SR 292 LAT: 30.3953902777778 LONG: 87.2515380555556	0.119	LAMAR ADVERTISING COMPANY

ROADWAY DESIGN SPEED : 45 MPH

From: Renee Ellis [mailto:rellis@lamar.com]
Sent: Friday, April 13, 2018 9:57 AM
To: Dave K. Hemphill <dhemphill@baskervilledonovan.com>
Cc: Joy Jones <DJJONES@myescambia.com>
Subject: Re: Revised tree locations

Joy & Dave,

Thank you for your patience as both the Lamar Operation's Manager and General Manager (as well as myself) have reviewed the submitted revised plans for the Barrancas Beautification Project and any possible effect on the view zones to the existing Lamar structures.

Lamar has now approved the plans, which show a total of 3 trees, and we do not anticipate that they will create any issue with the existing view zones of the 2 billboards in the depicted area.

Again, we appreciate your consideration in this project and feel confident that any issues, as far as the Lamar billboards are concerned, have been thoroughly address and resolved.

Thanks you and have a great weekend!

Renee

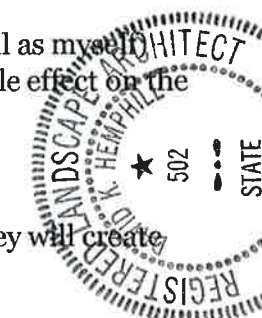
RENEE ELLIS / REAL ESTATE MANAGER

LAMAR ADVERTISING OF PENSACOLA

office (850)433-0024

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fax (850)438-1201



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**BARRANCAS AVENUE
BEAUTIFICATION**

Dave K. Hemphill

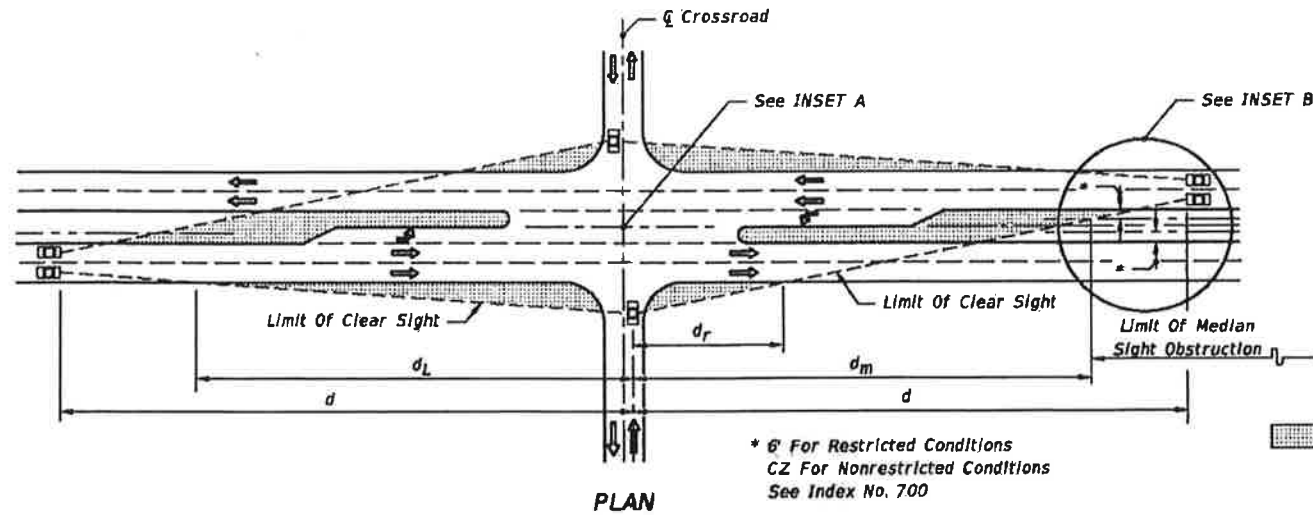
DAVE K. HEMPHILL
 FL. Reg. Landscape Architect #502

**SIGN COMPANY
APPROVAL**

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE	NO.	DATE	APPR.	REVISION/ACTION TAKEN
258103.01	DKH	THO	DKH	DKH	APRIL 2018	1	APRIL 2018	DKH	RELEASED FOR PERMITTING

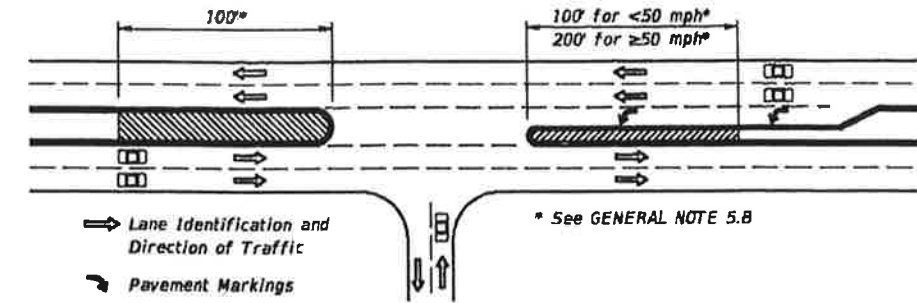
G-001

5.24.18



* ϕ For Restricted Conditions
 CZ For Nonrestricted Conditions
 See Index No. 700

LEGEND
 Areas Free Of Sight Obstructions



PLAN
 Special Areas Limited to Ground Cover

5. The corridor defined by the limits of clear sight is a restricted planting area. Drivers of vehicles on the intersecting roadway and vehicles on the major roadway must be able to see each other clearly throughout the limits of 'd' and 'd_R'. If in the Engineer's judgement, landscaping interferes with the line of sight corridor prescribed by these standards the Engineer may rearrange, relocate or eliminate plantings. Plants within the restricted areas are limited to selections as follows:

Ground Cover & Trunked Plants (Separate or Combined):

Ground Covers - Plant selection of low growing vegetation which at maturity does not attain a height greater than 18" below the sight line datum. For ground cover in combination with trees and palms; the following heights below the sight line datum will apply:

24" for trees and palms $\leq 11"$ dia.; and, 18" for sabal palms $>11"$ but $\leq 18"$ dia. (dia.-within Sight Window).

Trunked Plants - Plant selection of a mature trunk diameter 4" or less measured at 6" above the ground. Canopy or high borne foliage shall never be lower than 5' above the sight line datum. These selections shall be spaced no closer than 20'.

Trees - Trees can be installed with sod; pavers; gravel, mulch; ground covers or other Department approved material. The clear sight window must be in conformance with the 'WINDOW DETAIL' modified to attain the height requirements listed in 'Ground Covers' above.

A. Size and spacing shall conform to the Tree Spacing Table.

B. Requirements for placement within medians at median openings and at unsignalized and signalized intersections:

a. Horizontal clearance for the mature specimen shall be maintained as specified in Index 700. Specimens whose mature trunk diameter is greater than 18 inches shall not be permitted,

b. Where left turns from the major road are permitted, no trees shall be located within the distance 'd_b', Sheet 2 of 6; and not less than the distances called for in (c) or (d), as applicable,

c. For safety, these additional setbacks are required:

1. Where no left turn lane is present, size and spacing shall conform to the Tree Spacing Table. No trees shall be permitted within 100' of the restricted median nose (measured from the edge of pavement),

2. Where left turn lane(s) are present, the following requirements apply:

- For low speed facilities (design speed less than 50 mph), size and spacing shall conform to the Tree Spacing Table. No trees shall be permitted within 100' of the restricted median nose (measured from the edge of pavement).

- For high speed facilities (design speed 50 mph or greater), no trees shall be permitted within 200' of the restricted median nose. Beyond this limit, size and spacing shall conform to the Tree Spacing Table.

TREE SPACING TABLE **

Description Diameter (Within Limits Of Sight Window)	Speed (mph)													
	30		35		40		45		50		55		60	
	(Inches)													
	>4 \leq 11	>1 \leq 18	>4 \leq 11	>1 \leq 18	>4 \leq 11	>1 \leq 18	>4 \leq 11	>1 \leq 18	>4 \leq 11	>1 \leq 18	>4 \leq 11	>1 \leq 18	>4 \leq 11	>1 \leq 18
	(Feet)													
Minimum Spacing (c. to c. Of Trunk)	25	90	30	105	35	120	40	135	50	150	55	165	60	180

** Sizes and spacings are based on the following conditions:

- A single line of trees in the median parallel to but not necessarily collinear with the centerline.
- A straight approaching mainline, within skew limits as described in No. 2 above.
1. Trees and palms $\leq 11"$ in diameter casting a vertical 6' wide shadow band on a vehicle entering at stop bar location when viewed by mainline driver beginning at distance 'd'; see SHADOW DIAGRAM, Sheet 2.
 2. Sabal palms with diameters $> 11"$ $\leq 18"$ spaced at intervals providing a 2 second full view of entering vehicle at stop bar location when viewed by the mainline driver beginning at distance 'd'; see PERCEPTION DIAGRAM, Sheet 2.
- Trees with diameters $\leq 11"$ intermixed with trees with diameters $> 11"$ $\leq 18"$ are to be spaced based on trees with diameters $> 11"$ $\leq 18"$.

For any other conditions the tree sizes, spacings and locations shall be detailed in the plans; see Design Note 5.

MEDIAN 22' OR LESS				
Design Speed	d	d _L	d _R	d _M
30	395	280	90	325
35	460	325	100	380
40	525	375	115	430
45	590	420	130	485
50	655	465	145	540
55	720	510	160	590
60	785	555	175	645
65	850	605	185	700

PASSENGER VEHICLE (P)

25'-64' MEDIAN				
Design Speed	d	d _L	d _V	d _{V/L}
30	355	255	330	240
35	415	295	390	280
40	470	335	445	320
45	530	375	500	360
50	590	420	550	400
55	650	460	610	440
60	705	500	665	480
65	765	545	720	520

INTERMEDIATE SEMI-TRAILERS (WB-40 & WB-50)

MEDIAN 30' OR LESS				
Design Speed	d	d _L	d _R	d _M
30	615	435	120	520
35	720	510	140	605
40	820	580	160	690
45	925	655	180	780
50	1025	725	200	860
55	1130	800	220	950
60	1230	870	240	1035
65	1335	945	260	1120

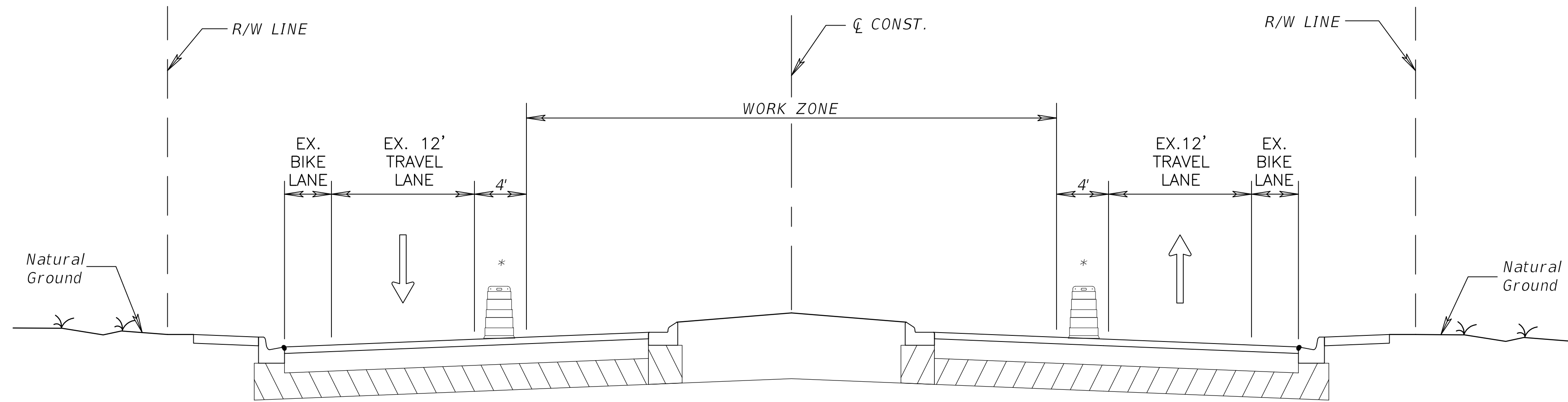
35'-50' MEDIAN				
Design Speed	d	d _L	d _R	d _M
30	670	475	105	585
35	780	555	120	680
40	890	630	140	780
45	1000	710	155	875
50	1110	790	170	970
55	1225	870	190	1070
60	1335	945	205	1165
65	1445	1025	225	1265

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	APRIL 2018	DKH	RELEASED FOR PERMITTING

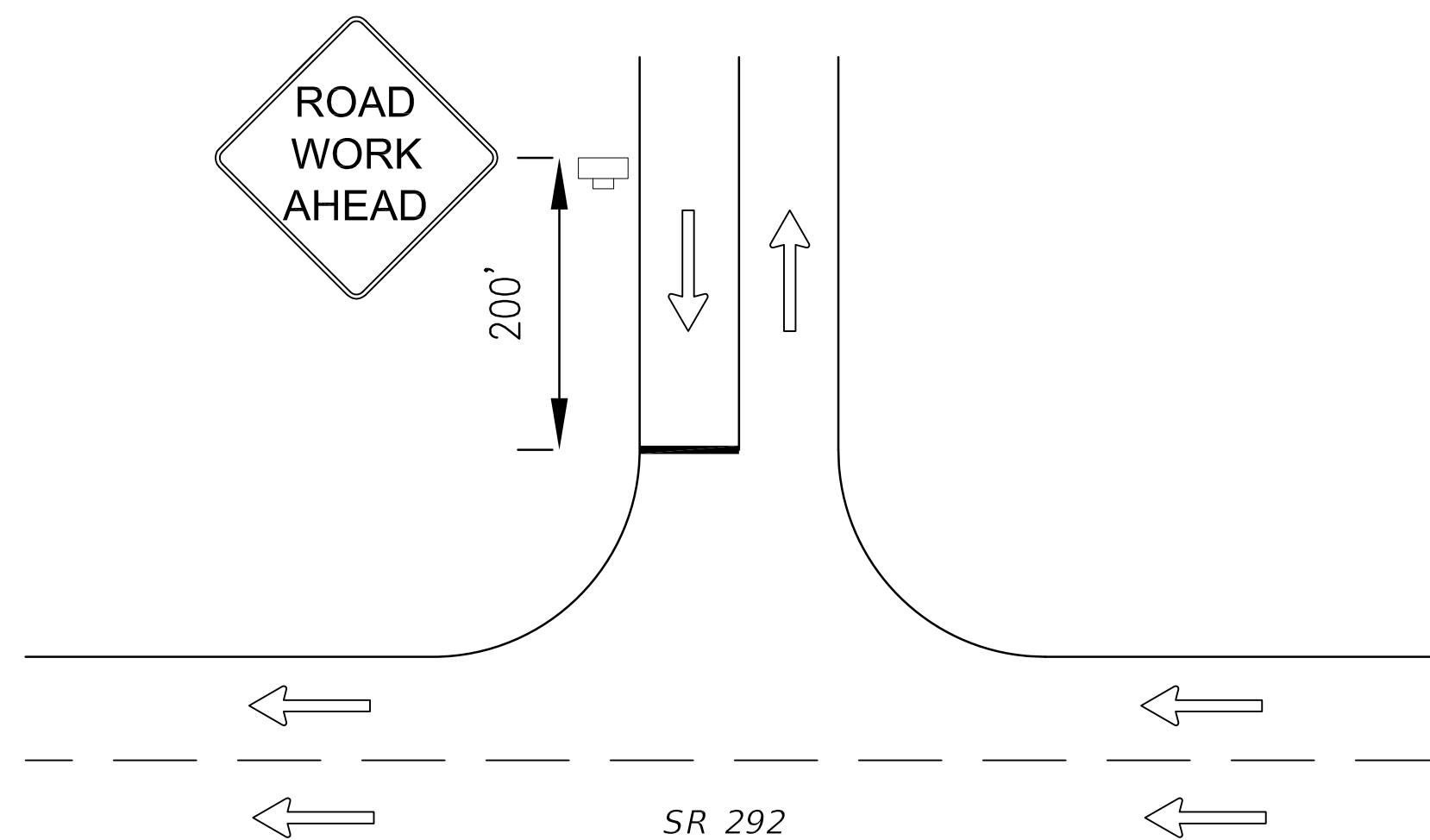
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TRAFFIC CONTROL PLAN NOTES

1. THE MAINTENANCE OF TRAFFIC IS TO BE PERFORMED AS PER THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARD INDEX NOS. 600, 602, 611, 612, 613, 615 AND 616, AND THE CURRENT EDITION FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. NO WORK SHALL BE PERFORMED IN THE RIGHT-OF-WAY UNTIL THE PROPER MAINTENANCE OF TRAFFIC IS IN PLACE ACCORDING TO THE APPROPRIATE FDOT 600 SERIES INDEX. A CERTIFIED WORKSITE TRAFFIC SUPERVISOR SHALL SET UP AND MAINTAIN THE MAINTENANCE OF TRAFFIC. THE CONTRACTOR SHALL MAINTAIN SIGNING THROUGHOUT THE DURATION OF CONSTRUCTION.
3. LANE CLOSURES / WORK RESTRICTIONS:
 - ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF AN EVACUATION NOTICE FOR A HURRICANE OR ANY OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVENT AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL PREPARE A LANE CLOSURE PLAN FOR REVIEW BY FDOT. NO WORK WILL BE UNDERTAKEN UNTIL THE PLAN IS APPROVED BY FDOT
 - NO WORK THAT WOULD CAUSE TEMPORARY LANE CLOSURES WILL BE PERFORMED ON HOLIDAYS OR SPECIAL EVENTS.
4. WHERE FLAGGERS ARE USED, THE FLAGGER MUST BE CLEARLY VISIBLE TO APPROACHING TRAFFIC FOR A DISTANCE TO PERMIT PROPER RESPONSE BY THE MOTORIST TO THE FLAGGING INSTRUCTIONS. IF OPERATIONS REQUIRE MULTIPLE FLAGGERS, THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
5. EXISTING STREET AND ROAD NAME SIGNS WITHIN THE PROJECT LIMITS SHALL BE VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
6. VARIABLE MESSAGE SIGNS ARE TO BE PLACED ON SR 292 (BARRANCAS AVE) ON EITHER SIDE OF THE PROJECT AREA AND RUNNING AT LEAST 7 DAYS PRIOR TO LANE CLOSURE.
7. THE 45 MPH POSTED SPEED LIMIT SHALL BE MAINTAINED AT ALL TIMES.
8. CAUTION SHOULD BE EXERCISED IN THE INSTALLATION OF TEMPORARY POST MOUNTED SIGNS IN ORDER TO PREVENT POSSIBLE DAMAGE TO BURIED UTILITIES.
9. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.



* CHANNELIZING DEVICE PER FDOT INDEX 600
TYPICAL TRAFFIC CONTROL CROSS SECTION

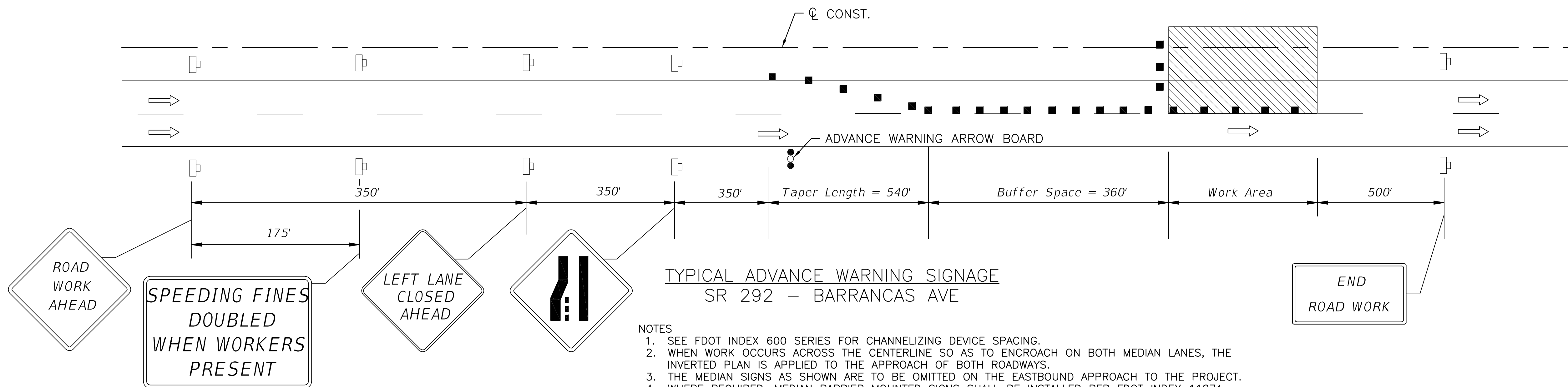


TYPICAL SIDE STREET CONSTRUCTION ZONE SIGNING DETAIL

PORTABLE CHANGEABLE VARIABLE MESSAGE SIGN (PCMS) DISPLAY

	A	B
7 DAYS PRIOR TO LANE CLOSURE	ROAD WORK AHEAD	(DATE) (MONTH)
DURING LANE CLOSURE	LEFT LANE CLOSED	MERGE RIGHT

* INFORMATION IN () TO BE ADDED PER CONSTRUCTION SCHEDULE



- NOTES**
1. SEE FDOT INDEX 600 SERIES FOR CHANNELIZING DEVICE SPACING.
 2. WHEN WORK OCCURS ACROSS THE CENTERLINE SO AS TO ENCROACH ON BOTH MEDIAN LANES, THE INVERTED PLAN IS APPLIED TO THE APPROACH OF BOTH ROADWAYS.
 3. THE MEDIAN SIGNS AS SHOWN ARE TO BE OMITTED ON THE EASTBOUND APPROACH TO THE PROJECT.
 4. WHERE REQUIRED, MEDIAN BARRIER MOUNTED SIGNS SHALL BE INSTALLED PER FDOT INDEX 11871.

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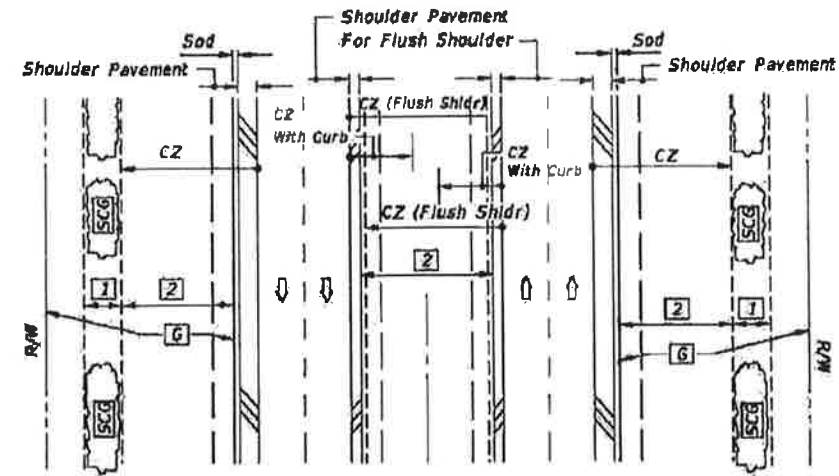
J. PATRICK BURKE, P.E.
FL Reg. Engineer #62313

**BARRANCAS AVENUE
BEAUTIFICATION**

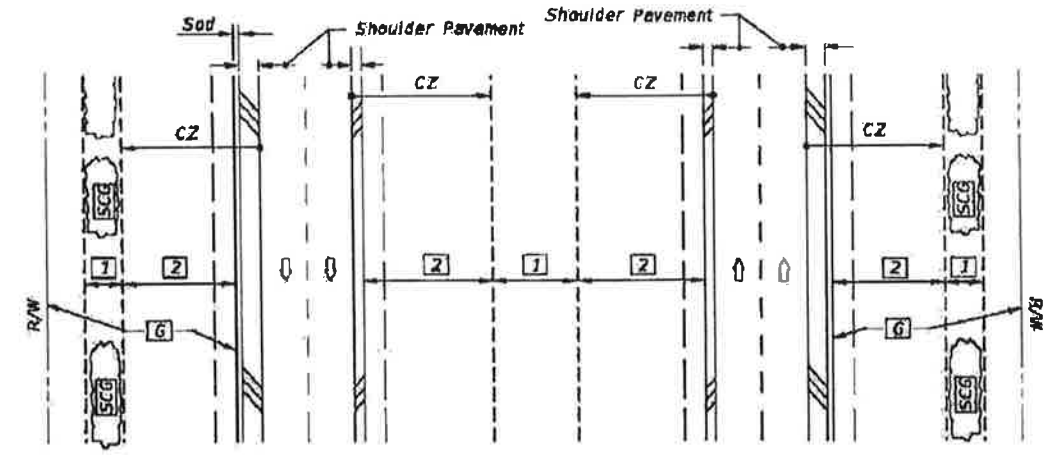
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DESIGNED BY:	JPB			
DRAWN BY:	JPB			
CHKD BY:	MOL			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			
NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____				

**TEMPORARY TRAFFIC
CONTROL PLAN**

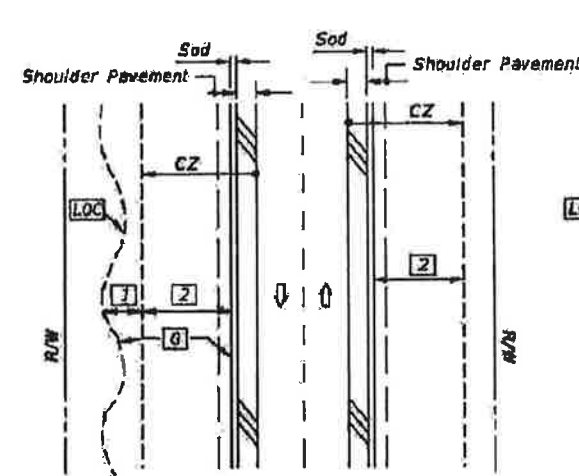
G-003



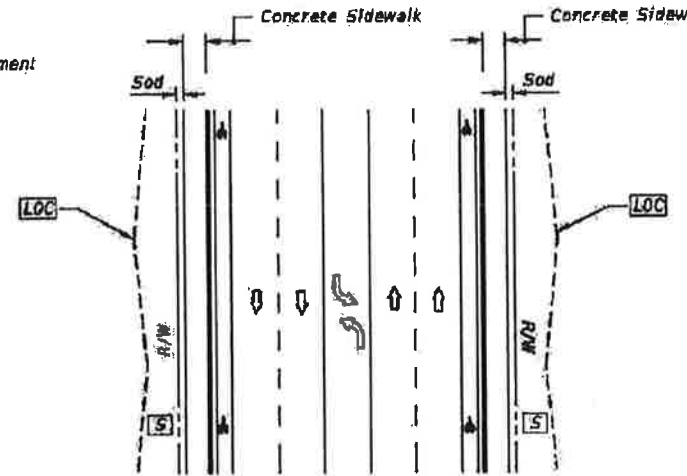
DIVIDED NARROW MEDIAN WITH OR WITHOUT CURBED MEDIAN



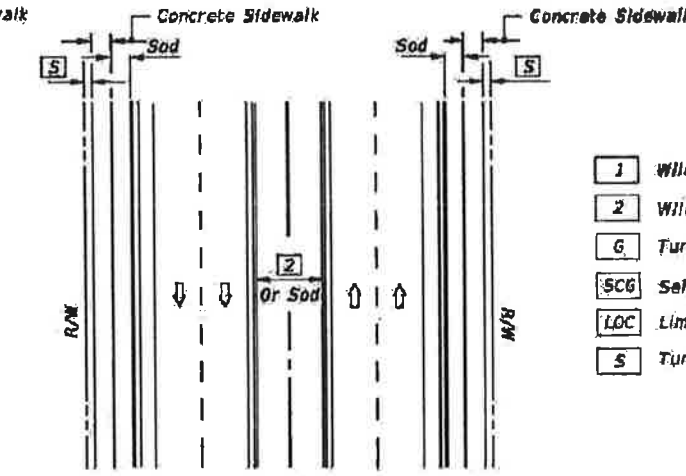
DIVIDED WIDE MEDIAN WITH OR WITHOUT CURBED MEDIAN



UNDIVIDED FLUSH SHOULDER



UNDIVIDED CURBED



DIVIDED CURBED

- LEGEND**
- 1 Wildflower Group #1
 - 2 Wildflower Group #2
 - 6 Turf (To Limit of Construction)
 - SCG Selective Clearing And Grubbing
 - LOC Limits Of Construction
 - S Turf

WILDFLOWER SEEDING RATES	
Common Name (Botanical Name)	lbs/ac
#1 Group	
Black-Eyed Susan (<i>Rudbeckia hirta</i>)	2
Lance-leaf Tickseed (<i>Coreopsis lanceolata</i>)	10
Goldenrope Tickseed (<i>Coreopsis basalis</i>)	10
Leavenworth's Tickseed (<i>Coreopsis leavenworthii</i>)	10
Fire Wheel (<i>Gaillardia pulchella</i>)	10
Softair Coneflower (<i>Rudbeckia mollis</i>)	2
Crimson Clover (<i>Trifolium incarnatum</i>)	15
#2 Group	
Annual Phlox (<i>Phlox drummondii</i>)	10
Moss Verbena (<i>Verbena tenuisecta</i>)	6
Leavenworth's Tickseed (<i>Coreopsis leavenworthii</i>)	10
Fire Wheel (<i>Gaillardia pulchella</i>)	10
Crimson Clover (<i>Trifolium incarnatum</i>)	15
Note: Wildflower seeding rates are for restoring impacted wildflower areas.	

GENERAL NOTES

1. All turf establishment shall be performed meeting the requirements of Section 570 of the Standard Specifications.
2. Activities such as clearing, grading, and excavating that will disturb one or more acres of land require coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities from the Florida Department of Environmental Protection, and implementation of appropriate pollution prevention measures to minimize erosion and sedimentation and properly manage stormwater.
3. Confirm compatibility of wildflower with Seeding Zones.

SEEDING ZONES



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DAVID K. HERRILL
 P.E., Registered Professional Engineer
 License No. 15222

**BARRANCAS AVENUE
 BEAUTIFICATION**

NO.	DATE	APPROVAL	REVISION/ACTION TAKEN
1	APRIL 2018	DKH	RELEASED FOR PERMITTING
DESIGNED BY: DKH			
DRAWN BY: THO			
CHECKED BY: DKH			
PROJ. MGR: DKH			
DATE: APRIL 2018			
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**FDOT EROSION
 CONTROL DETAILS**

G-004

LAST REVISION
 07/01/07

DESCRIPTION:

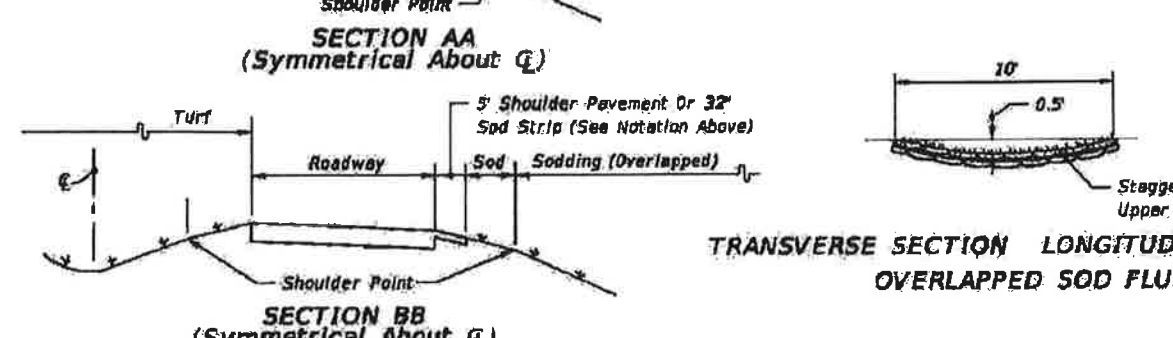
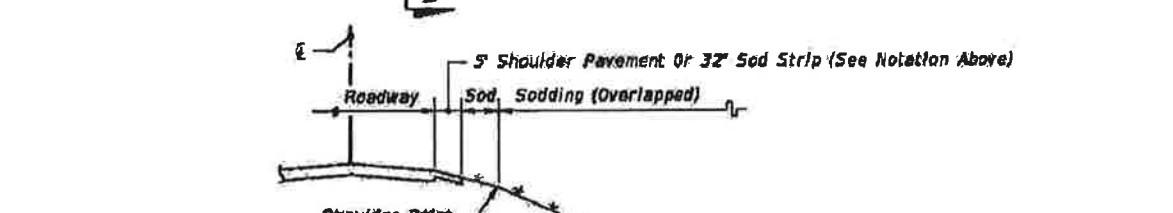
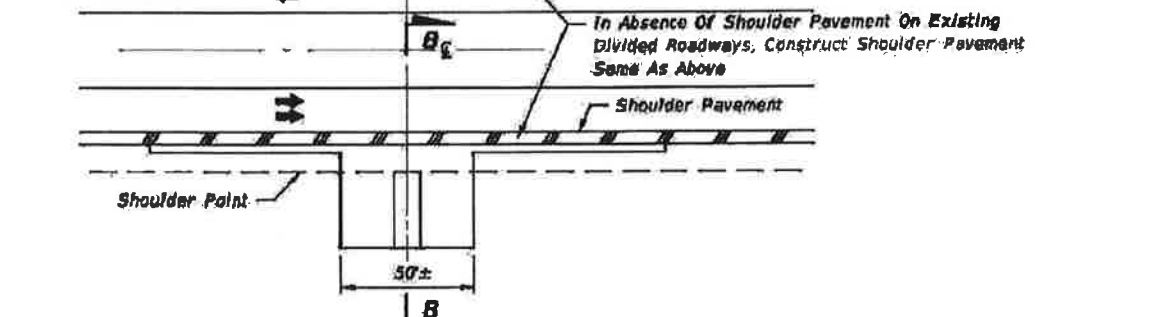
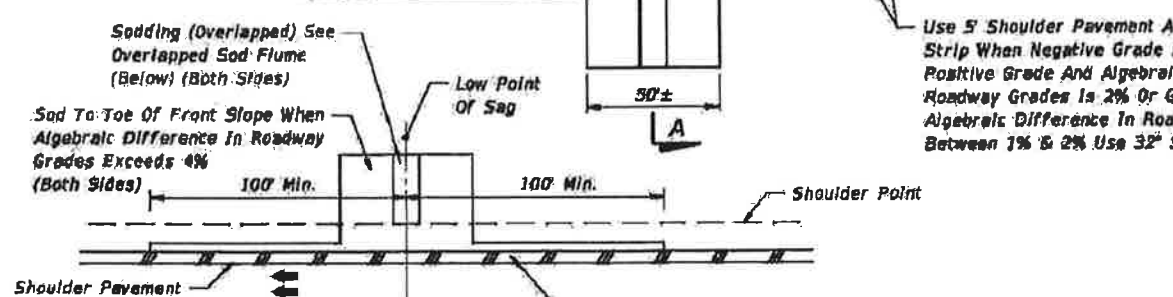
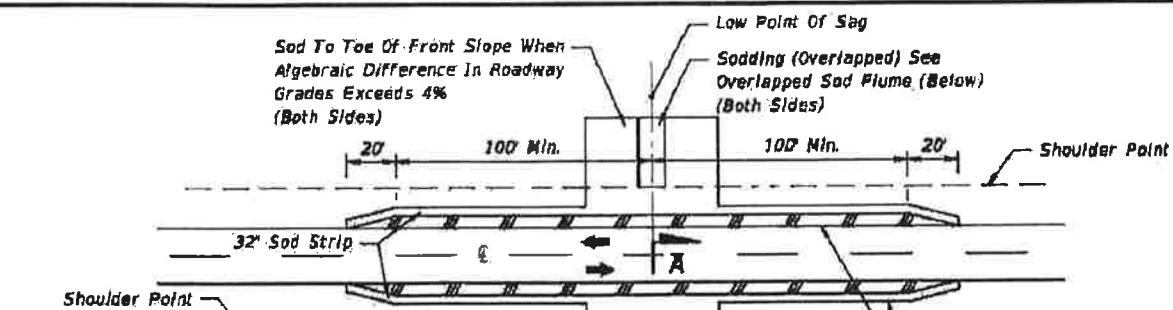
FDOT FY 2017-18
 DESIGN STANDARDS

PERMANENT EROSION CONTROL

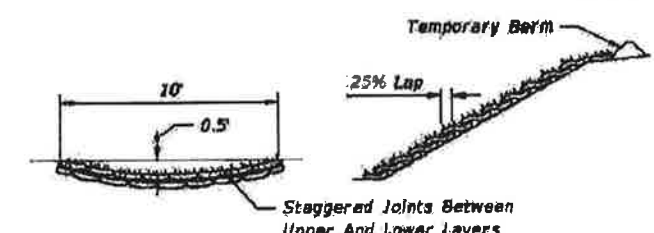
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 104

SHEET NO.
 1 of 2

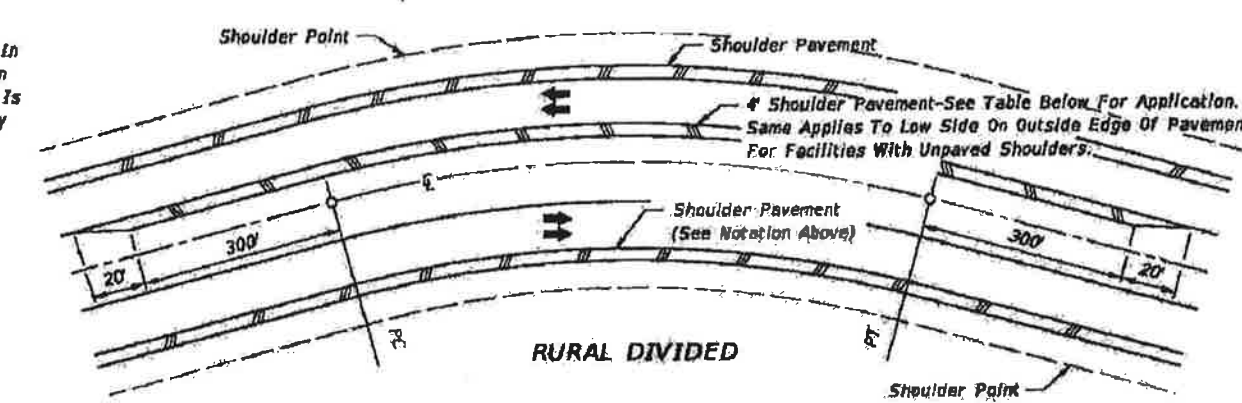
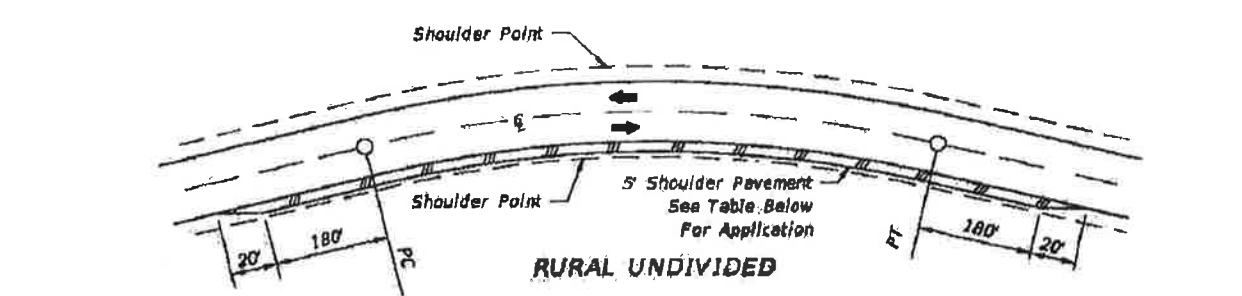
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SHOULDER AND SLOPE TREATMENT IN SAG VERTICAL CURVES



TRANSVERSE SECTION LONGITUDINAL SECTION OVERLAPPED SOD FLUME



CRITERIA FOR PAVING SHOULDER ON DIVIDED AND UNDIVIDED FACILITIES

Design Speed (mph)	Degree Of Curve
30	7° Or Greater
40	5° Or Greater
50	4° Or Greater
60	3° Or Greater
65	3° Or Greater
70	2° Or Greater

Note: Shoulder Pavement is required on all curves meeting the criteria tabulated. For curves not meeting the criteria, shoulders are to be paved where erosion of the shoulder is evident or anticipated.

SHOULDER AND SLOPE TREATMENT FOR SUPERELEVATED ROADWAYS

- NOTES
- These treatments are applicable to new construction, reconstruction and RRR projects. Project requirements for shoulder pavement and sodding that exceed the limits of this standard take precedence.
 - For sodding adjacent to ditches and at headwalls, see Index No. 2B1.
 - All front slopes steeper than 1:3 are to be sodded.

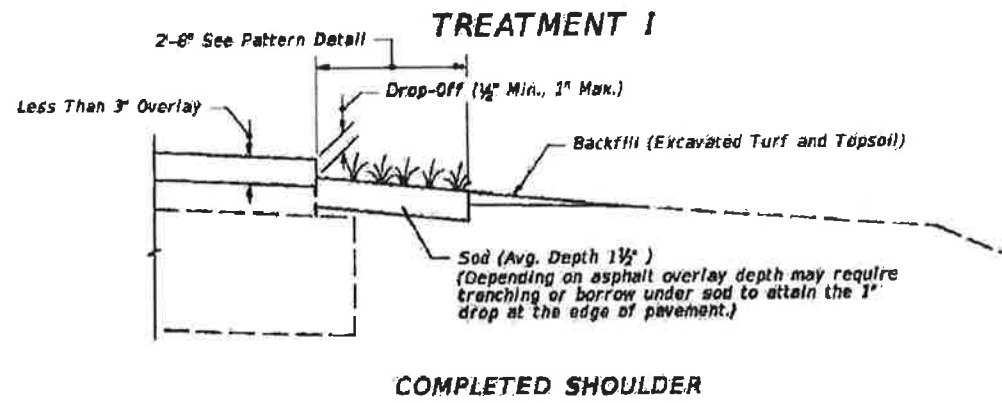
TREATMENTS FOR PROTECTION FROM CONCENTRATED ROADWAY RUNOFF EROSION AND SHOULDER RAVELING

LAST REVISION 07/01/01	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	PERMANENT EROSION CONTROL	INDEX NO. 104	SHEET NO. 2 of 2
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PROJECT NO.	258103.01	NO.	1	DATE	APRIL 2018	APPR.	DKH	REVISION/ACTION TAKEN	RELEASED FOR PERMITTING
DESIGNED BY:	DKH	PROL. MGR.:	DKH	DATE:	APRIL 2018	NOT RELEASED FOR CONSTRUCTION BY:	DATE:		

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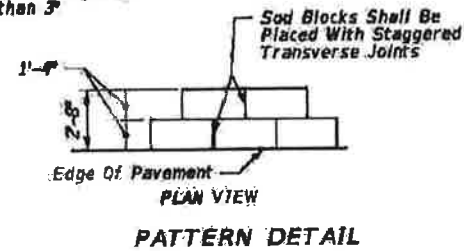
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COMPLETED SHOULDER

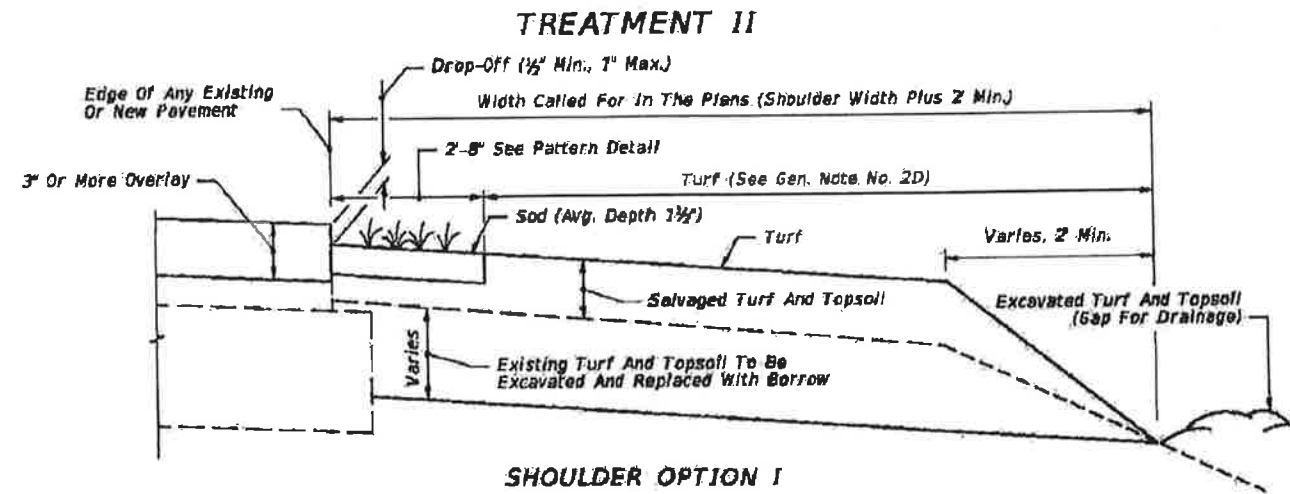
CRITERIA FOR USING TREATMENT I

- Project
- is resurfacing, widening and resurfacing or construction of shoulder pavement
 - is rural or is urban without curb and gutter
 - resurfacing build-up is less than 3"

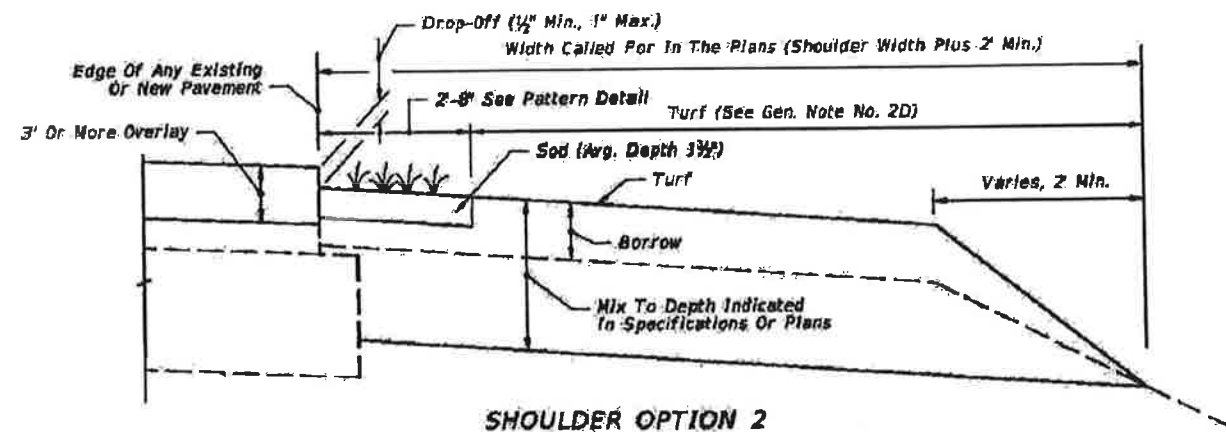


GENERAL NOTES

- Treatment I:
 - If trenching under sod is necessary to achieve the required Drop-Off, excavated turf and topsoil are to be used for filling voids and low areas at the edge of pavement or for flushing along the edge of sod. Excess material to be uniformly distributed over the shoulder.
 - Payment for sod, excavation of turf and topsoil and for back fill of this material under Treatment I is to be included in the contract unit price for Performance Turf, SY. Prepared Soil Layer not required.
- Treatment II:
 - All borrow shall meet requirements for a "Select" material in accordance with Index 505 and Section 120 of the Standard Specifications.
 - Borrow may be used in lieu of excavated turf and topsoil when economically feasible, however the upper 6" shall meet the requirements of Section 162 "Prepared Soil Layer". There will be no additional payment for substituting borrow for excavated turf and topsoil.
 - When existing turf and topsoil do not meet the requirements of Section 162 "Prepared Soil Layer", provide additive materials as necessary in the upper 6" to meet the requirements of Section 162. There will be no additional payment for additives.
 - Payment for Treatment II will be under Prepared Soil Layer. Sod and other materials for turf establishment shall be paid for as Performance Turf, SY.
- Special attention is to be directed at achieving the required Drop-Off at the edge of pavement, within the dimension range shown.
- Activities such as clearing, grading, and excavating that will disturb one or more acres of land require coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities from the Florida Department of Environmental Protection, and implementation of appropriate pollution prevention measures to minimize erosion and sedimentation and properly manage stormwater.
- Turf Establishment:
 - Wildflowers destroyed by shoulder sodding and turf operations are to be reestablished under the seeding rates prescribed for permanent wildflower #2 Group shown by table on Index 104.
 - All turf establishment shall be performed meeting the requirements of Section 570 of the Standard Specifications.



SHOULDER OPTION I



SHOULDER OPTION 2

CRITERIA FOR USING TREATMENT II

- Project
- is resurfacing or construction of shoulder pavement
 - is rural or is urban without curb and gutter
 - resurfacing build-up is 3" or more

A SIMILAR TREATMENT MAY BE USED FOR PROJECTS THAT REQUIRE SHOULDER WIDENING. DETAILS ARE TO BE SHOWN IN THE PLANS.

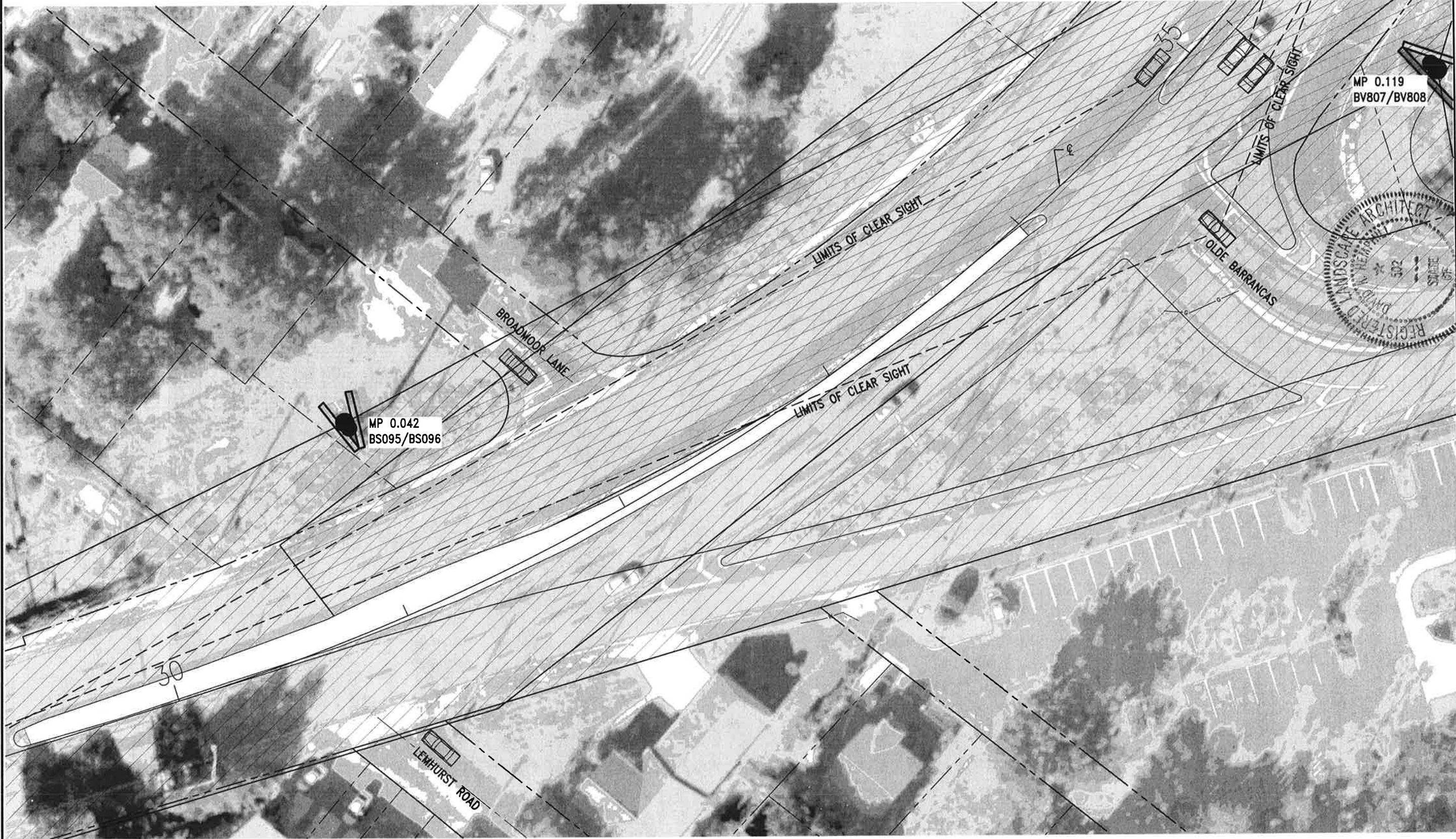
PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	PROJ. MGR.	DATE
258103.01	DKH	THO	DKH	DKH	APRIL 2018

NO.	DATE	APPROVAL	REVISION/ACTION TAKEN
1	APRIL 2018	DKH	RELEASED FOR PERMITTING

10/27/2016 11:26:03 AM

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	SHOULDER SODDING AND TURF ON EXISTING FACILITIES	INDEX NO. 105	SHEET NO. 1 of 1
---------------------------	--------------	--	---	------------------	---------------------

K:\258\258103.01 - Beautification - Barranca\DWG\L-100.dwg, Apr 24, 2018 - 11:25:27AM, toverton



(A1) **MEDIAN 1, 2 & 3 SIGHT DISTANCE ANALYSIS** (N)

SCALE: 1" = 20'

0 10' 20' 40'

BARRANCAS AVENUE BEAUTIFICATION

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861
ENGINEERING BUSINESS: EB-0000340
Pensacola - Panama City Beach - Melbourne - Tallahassee - Mobile
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REGISTERED LANDSCAPE ARCHITECT
DAVID K. HEMPHILL
FL. Reg. Landscape Architect #502

DAVID K. HEMPHILL
FL. Reg. Landscape Architect #502

5-24-18

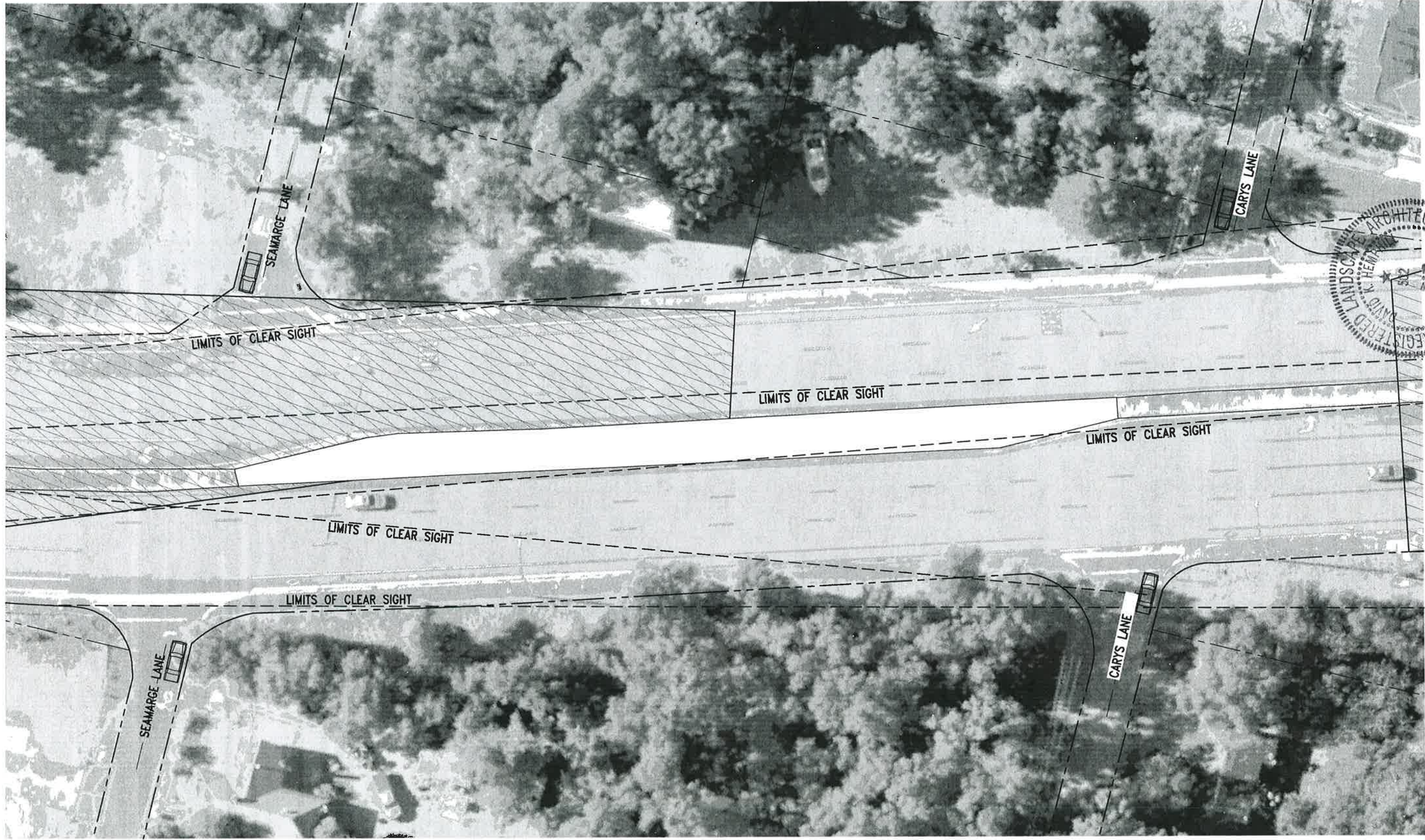
PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
258103.01	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
DESIGNED BY:				
DRAWN BY:				
CHK'D BY:				
PROJ. MGR:				
DATE:				

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MEDIAN 1, 2 & 3 SIGHT DISTANCE ANALYSIS

L-100

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(A1) MEDIAN 4 SIGHT DISTANCE ANALYSIS
 SCALE: 1" = 20' 0 10' 20' 40'



BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 418 W MAIN ST, PENSACOLA, FL 32502 (850)488-8661
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**BARRANCAS AVENUE
 BEAUTIFICATION**

PROJECT NO:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
258103.01	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
DESIGNED BY:	DKH			
DRAWN BY:	TPO			
CHK'D BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			
				NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____

**MEDIAN 4
 SIGHT DISTANCE
 ANALYSIS**

5.24.18

K:\258\258103.01 Beautification--Barrancas\DWG\L-100.dwg, Apr 24, 2018 - 11:30:36AM, toverton



A1 MEDIAN 5 SIGHT DISTANCE ANALYSIS
 SCALE: 1" = 20'
 0 10' 20' 40'



**BARRANCAS AVENUE
 BEAUTIFICATION**

BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 448 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9661
 ENGINEERING BUSINESS: EB-0000340
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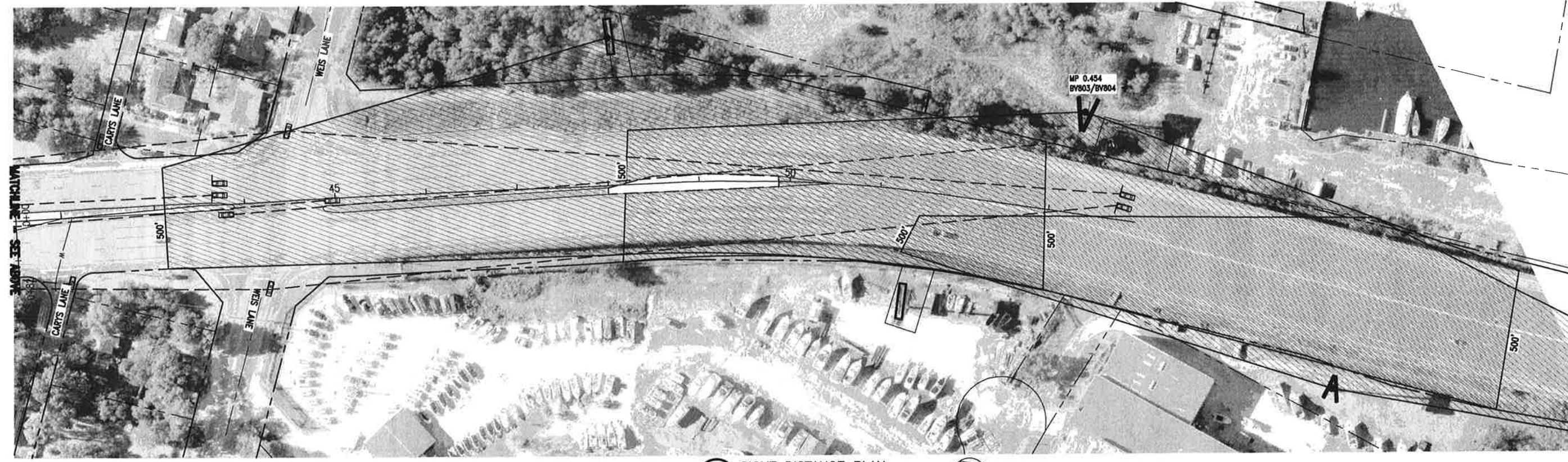
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DESIGNED BY: DKH				
DRAWN BY: THO				
CHK'D BY: DKH				
PROJ. MGR: DKH				
DATE: APRIL 2018				

**MEDIAN 5
 SIGHT DISTANCE
 ANALYSIS**

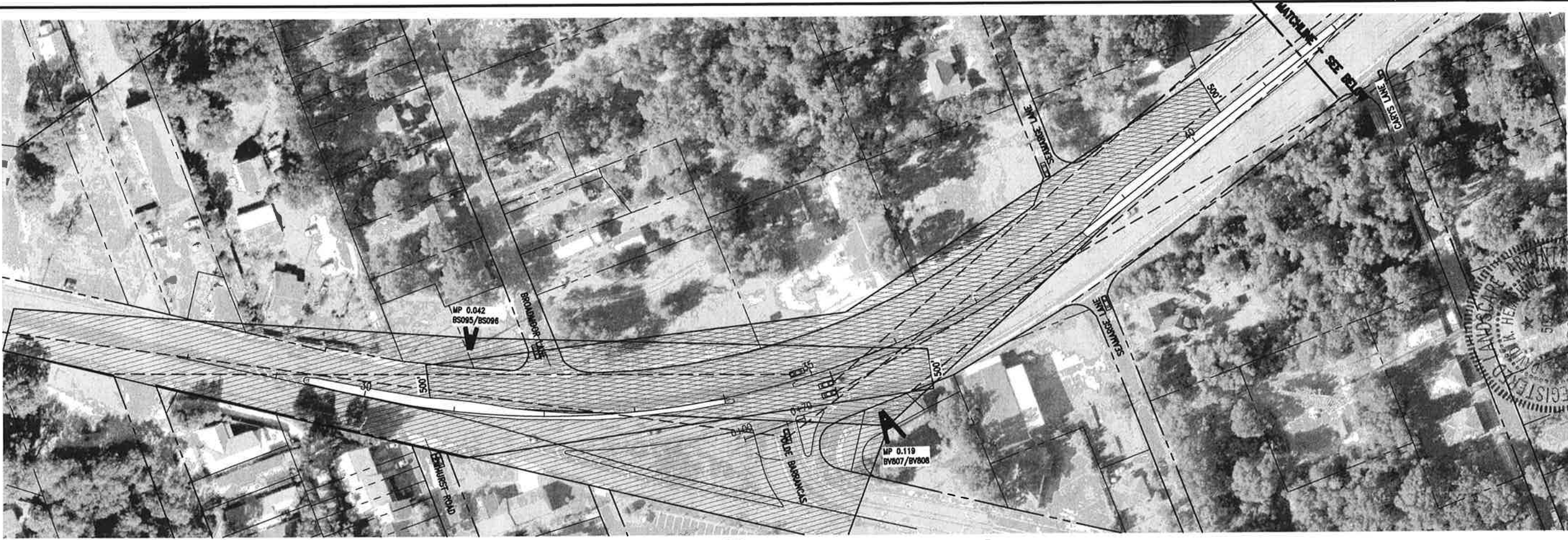
L-102

FD.24.18

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A1 SIGHT DISTANCE PLAN
SCALE: 1" = 60' 0 30' 60' 120'



C1 SIGHT DISTANCE PLAN
SCALE: 1" = 60' 0 30' 60' 120'

L-103

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
258103.01	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
DESIGNED BY:	DKH			
DRAWN BY:	THO			
CHK'D BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			
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**BARRANCAS AVENUE
BEAUTIFICATION**

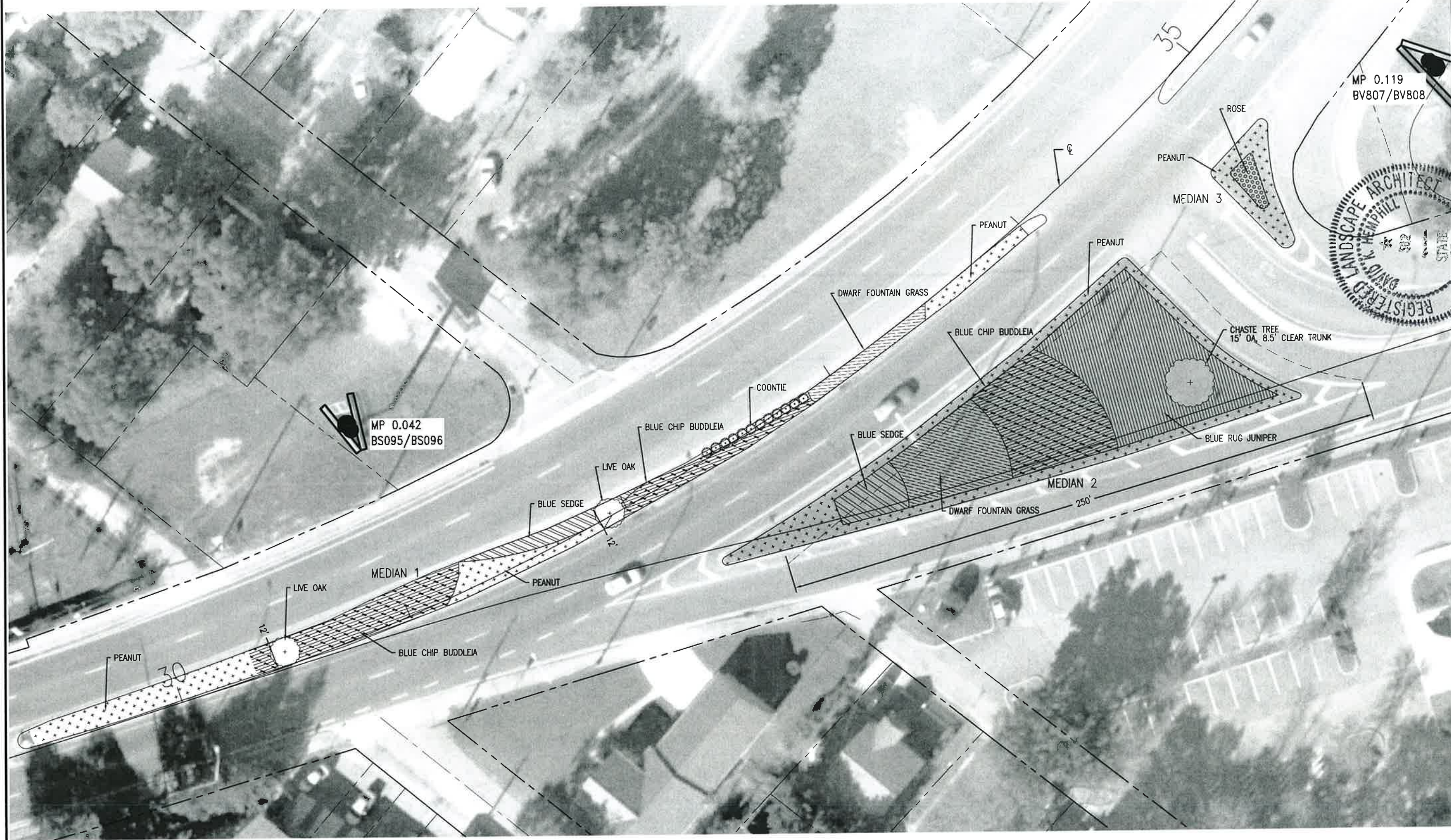
BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
448 W. MAIN ST. PENSACOLA, FL 32502 (850)436-8661
ENGINEERING BUSINESS: EB-0000340
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REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
K. HEINRICH
512

David K. Heinrich
David K. Heinrich
Fl. Reg. Landscape Architect #802

5.24.18

K:\258\258103.01 Beautification-Barranca\DWG\L-100.dwg, May 24, 2018 - 11:10 13AM, loverton



A1 MEDIAN 1, 2 & 3 LANDSCAPE PLAN
 SCALE: 1" = 20'



BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 449 W. MAIN ST., PENSACOLA, FL 32502 (850)464-8461
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BARRANCAS AVENUE
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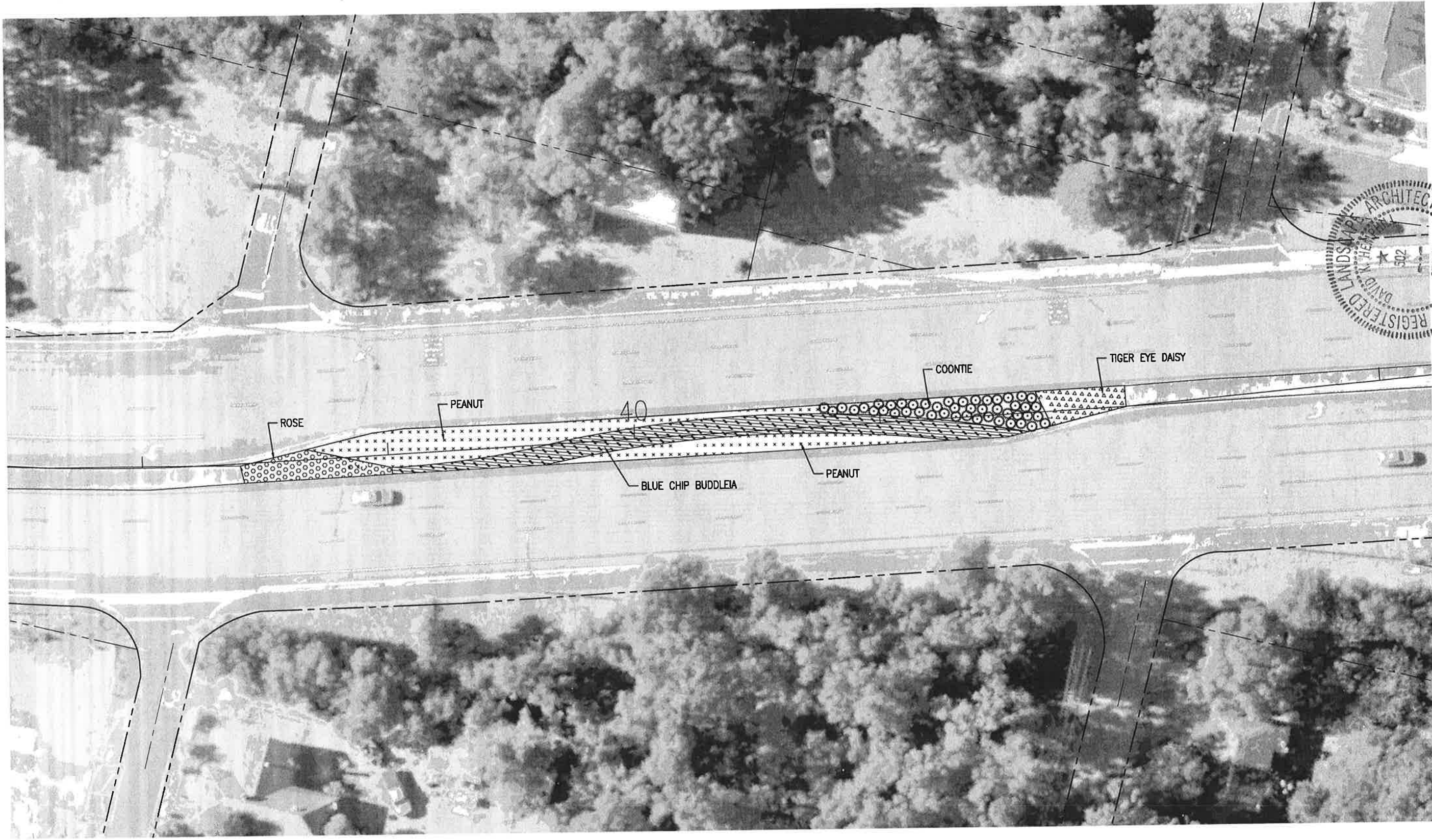
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1	APRIL 2018	DKH	RELEASED FOR PERMITTING
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MEDIAN 1, 2 & 3
 LANDSCAPE PLAN

L-104

David K. Hemphill
 David K. Hemphill
 Registered Landscape Architect
 License No. 502
 5.24.18

K:\258\258103.01 Beautification-Barrancas\DWG\L-100.dwg, Apr 25, 2018 - 8:19:22AM, toverton



(A1) MEDIAN 4 LANDSCAPE PLAN
 SCALE: 1" = 20' 0 10' 20' 40'



BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 448 W. MAIN ST., PENSACOLA, FL 32502 (850)38-9661
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REGISTERED LANDSCAPE ARCHITECT
 DAVID K. HEMPHILL
 STATE OF FLORIDA
 LICENSE NO. 502
 David K. Hemphill
 D.K. Hemphill
 FL. Reg. Landscape Architect
 License No. 502

**BARRANCAS AVENUE
 BEAUTIFICATION**

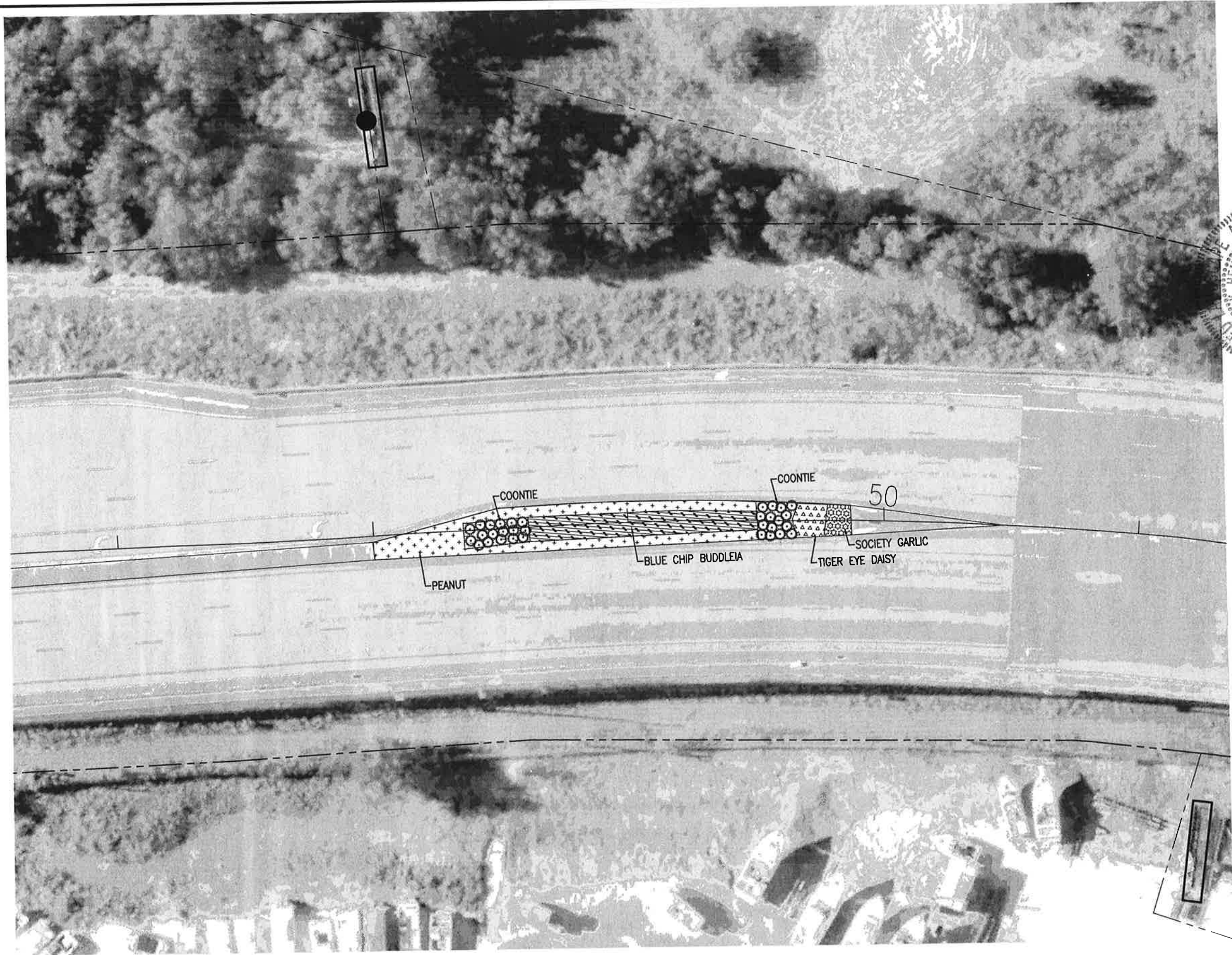
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DESIGNED BY:	DKH			
DRAWN BY:	THO			
CHK'D BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			
				NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____

**MEDIAN 4
 LANDSCAPE PLAN**

L-105

B.24.18

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(A1) MEDIAN 5 LANDSCAPE PLAN
 SCALE: 1" = 20'



**BARRANCAS AVENUE
 BEAUTIFICATION**

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
258103.01	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
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DRAWN BY:	THO			
CHKD BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			NOT RELEASED FOR CONSTRUCTION BY DATE

**MEDIAN 5
 LANDSCAPE PLAN**

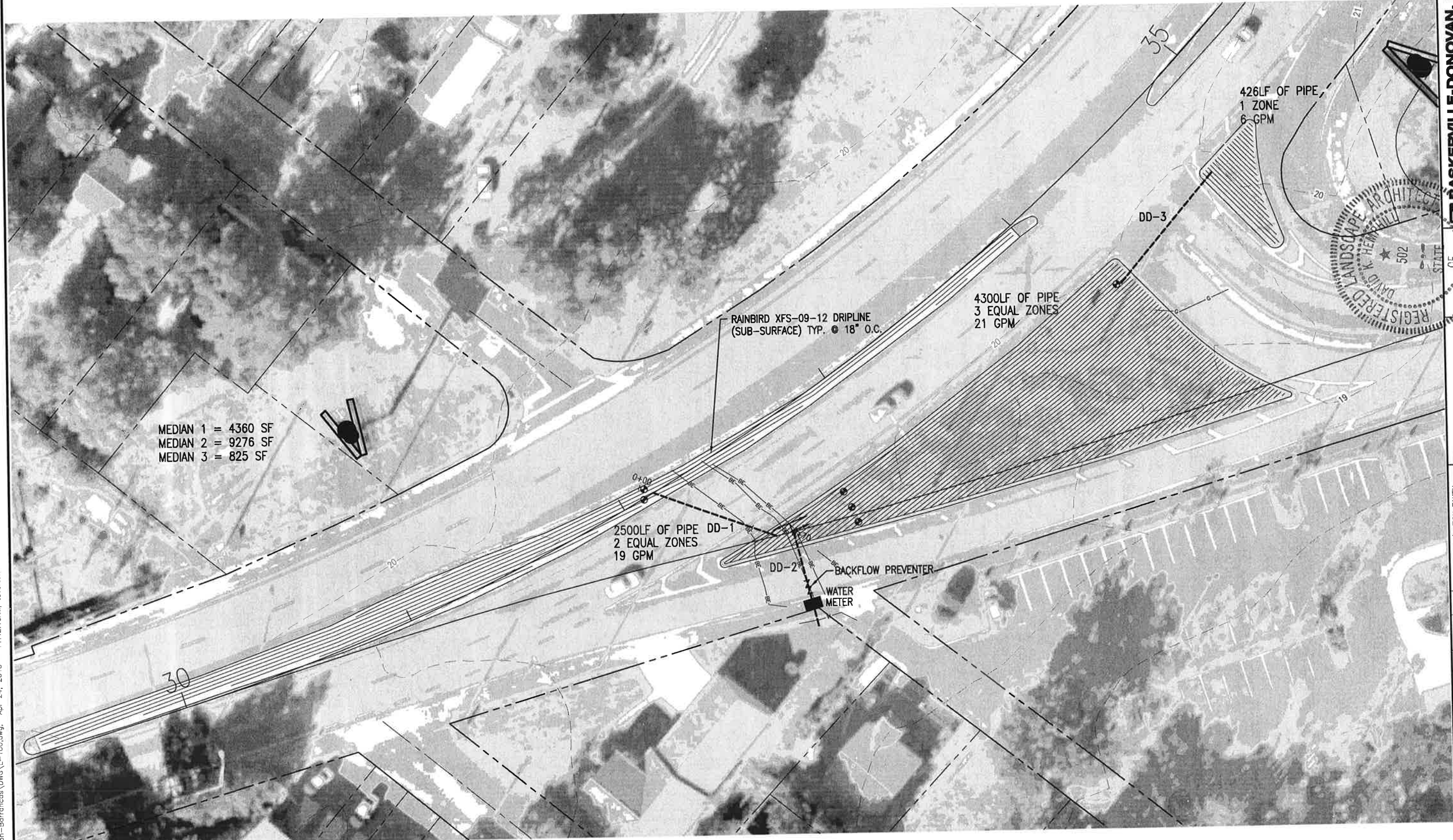
L-106

BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
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David K. Hemphill
 DAVID K. HEMPHILL
 FL. Reg. Landscape Architect #502

8.24.18

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MEDIAN 1 = 4360 SF
 MEDIAN 2 = 9276 SF
 MEDIAN 3 = 825 SF

(A1) MEDIAN 1, 2 & 3 IRRIGATION PLAN
 SCALE: 1" = 20'



BASKERVILLE-DONOVAN, INC.
 innovative infrastructure solutions
 449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9461
 ENGINEERING BUSINESS: EB-0000030
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**BARRANCAS AVENUE
 BEAUTIFICATION**
 David K. Hemphill
 FL Reg. Landscape Architect #502

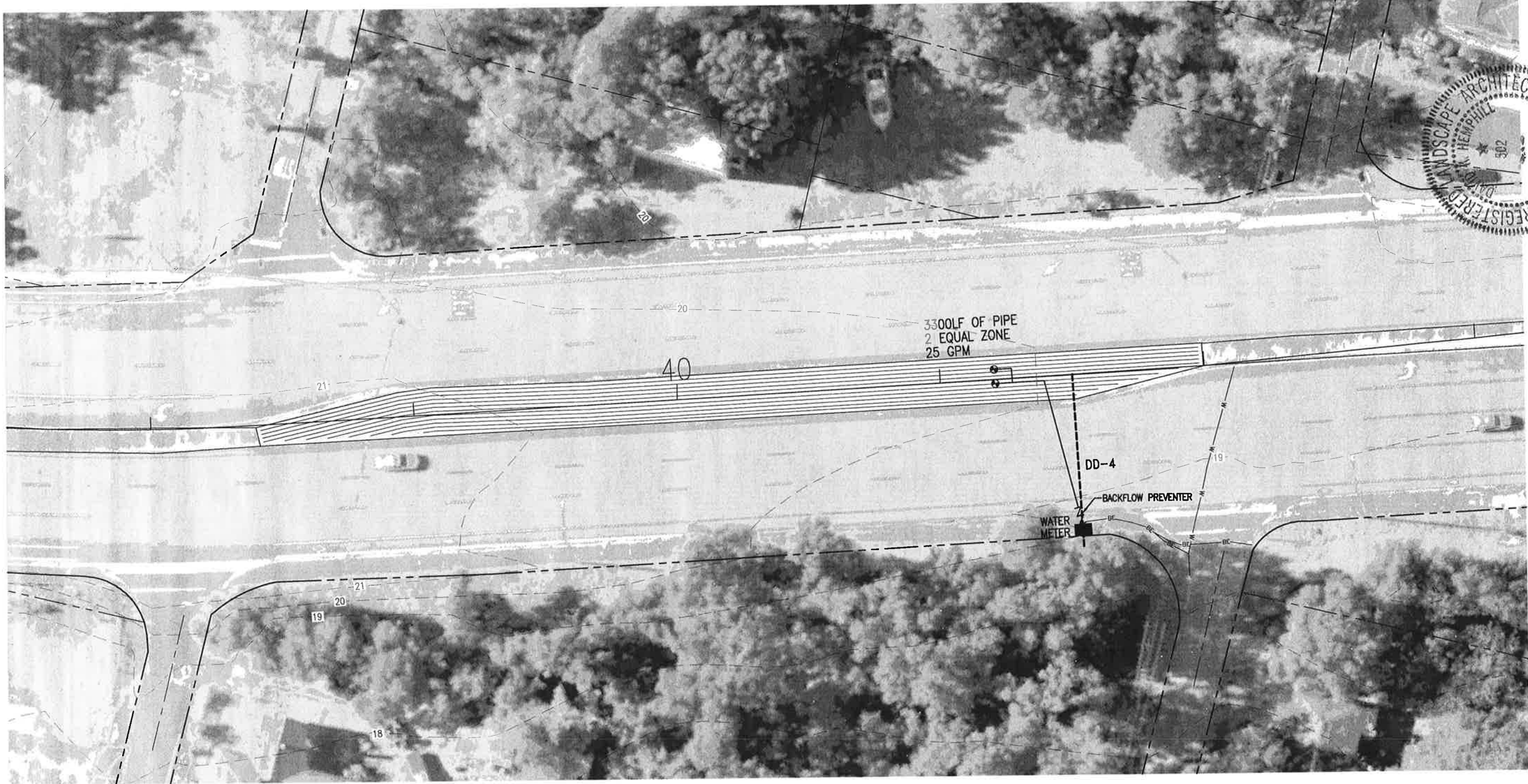
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DESIGNED BY:	DKH			
DRAWN BY:	THO			
CHK'D BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			

**MEDIAN 1, 2 & 3
 IRRIGATION PLAN**

L-107

6.24.18

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A1 MEDIAN 4 IRRIGATION PLAN
SCALE: 1" = 20' 0 10' 20' 40'



BASKERVILLE-DONOVAN, INC.
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448 W MAIN ST., PENSACOLA, FL 32502 (850)438-6661
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REGISTERED LANDSCAPE ARCHITECT
DAVID K. HEMPHILL
FL. Reg. Landscape Architect #502

**BARRANCAS AVENUE
BEAUTIFICATION**

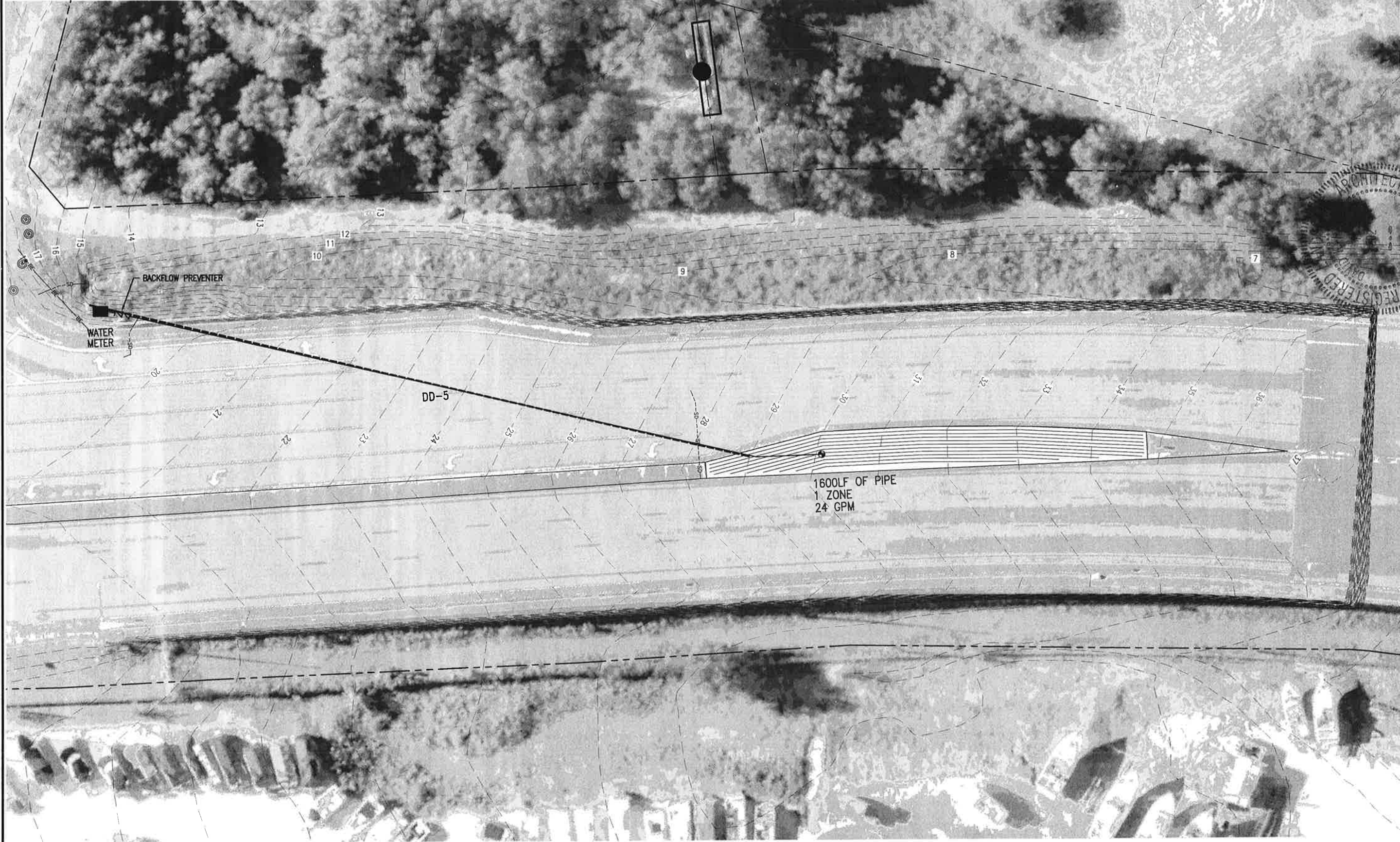
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DESIGNED BY:	DKH			
DRAWN BY:	THO			
CHK'D BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			
				NOT RELEASED FOR CONSTRUCTION BY DATE

**MEDIAN 4
IRRIGATION PLAN**

L-108

5.24.18

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A1 MEDIAN 5 IRRIGATION PLAN
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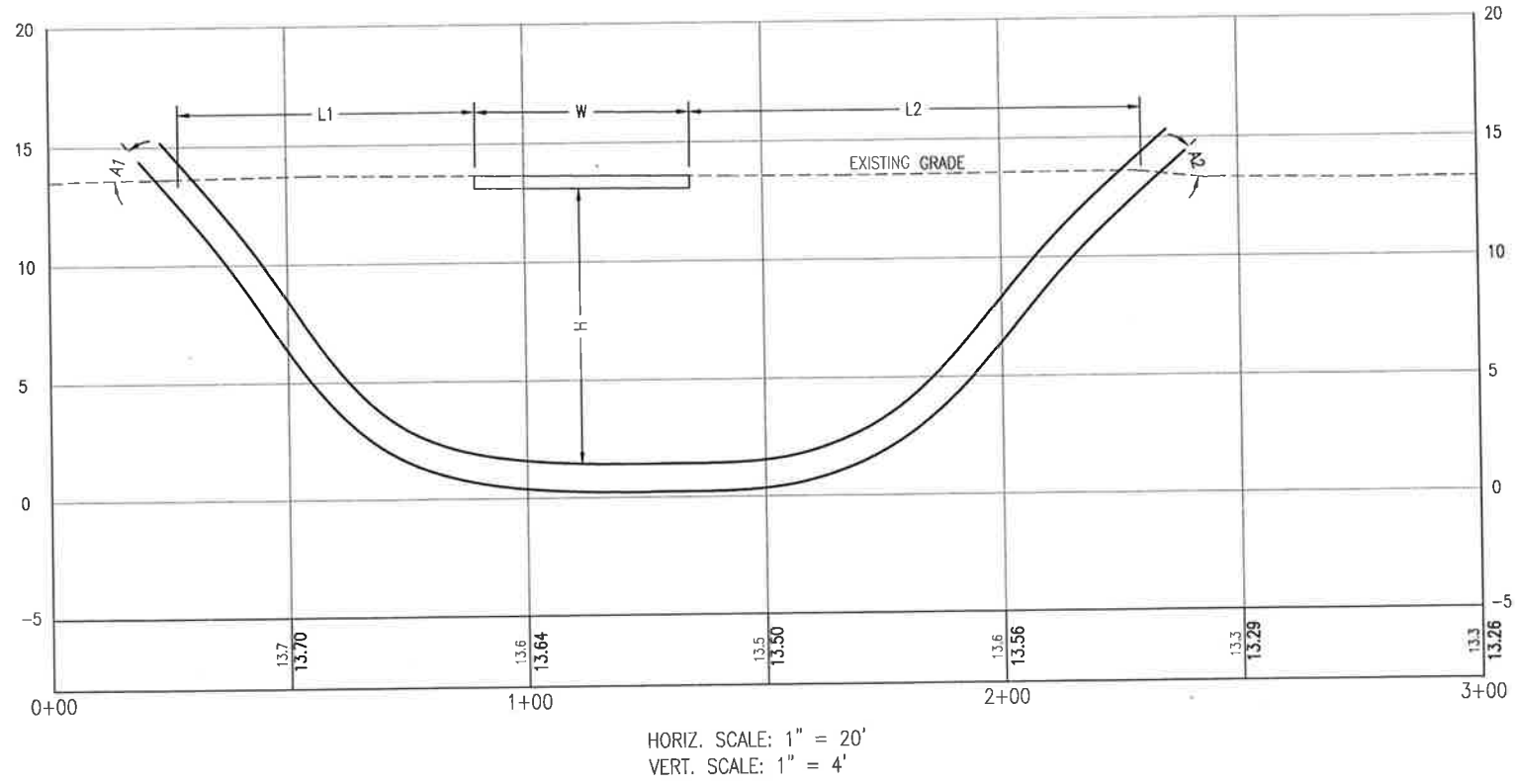


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 449 W MAIN ST. PENSACOLA, FL 32502 (850) 438-3661
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OF FLORIDA
 REGISTERED PROFESSIONAL ENGINEER
 David K. Harrell
 No. 10000
 State of Florida
 F.L. Reg. Landscape Architect 1502

BARRANCAS AVENUE BEAUTIFICATION	
PROJECT NO: 258103.01	REVISION/ACTION TAKEN
DESIGNED BY: DKH	NO. DATE APPR. DATE
DRAWN BY: THO	1 APRIL 2018 DKH RELEASED FOR PERMITTING
CHK'D BY: DKH	
PROJ. MGR: DKH	
DATE: APRIL 2018	NOT RELEASED FOR CONSTRUCTION BY DATE
MEDIAN 5 IRRIGATION PLAN	
L-109	

5.24.18

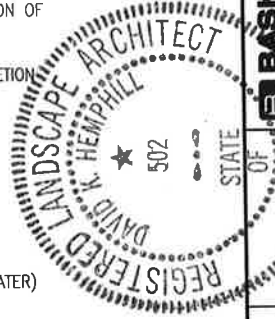


NOTES:

1. CONTRACTOR RESPONSIBLE FOR DETERMINING LOCATION OF BURIED OBSTACLES/CONFLICTS.
2. DETERMINATION OF ENTRY/EXIT SIDES AT THE DISCRETION OF THE CONTRACTOR UNLESS NOTED.
3. INSTALL 6 GA. SOLID TRACER WIRE IN PULLBACK.

LEGEND

- H = MINIMUM CROSSING DEPTH
W = MINIMUM CROSSING WIDTH (AT DEPTH "H" OR GREATER)
A1, A2 = ENTRY, EXIT ANGLES (12', 15')



BARRANCAS AVENUE
BEUTIFICATION

PROJECT NO.	NO.	DATE	APPR.	REVISION / ACTION TAKEN
258103.01	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
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DRAWN BY:	DKH			
CHK'D BY:	DKH			
PROJ. MGR:	DKH			
DATE:	APRIL 2018			

DIRECTIONAL DRILL
SCHEDULE

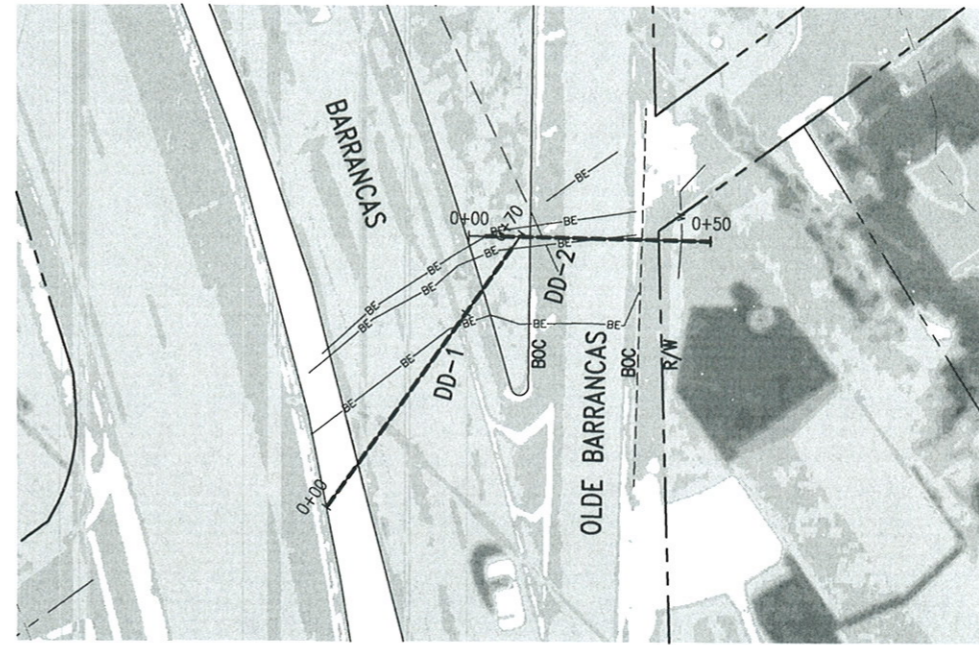
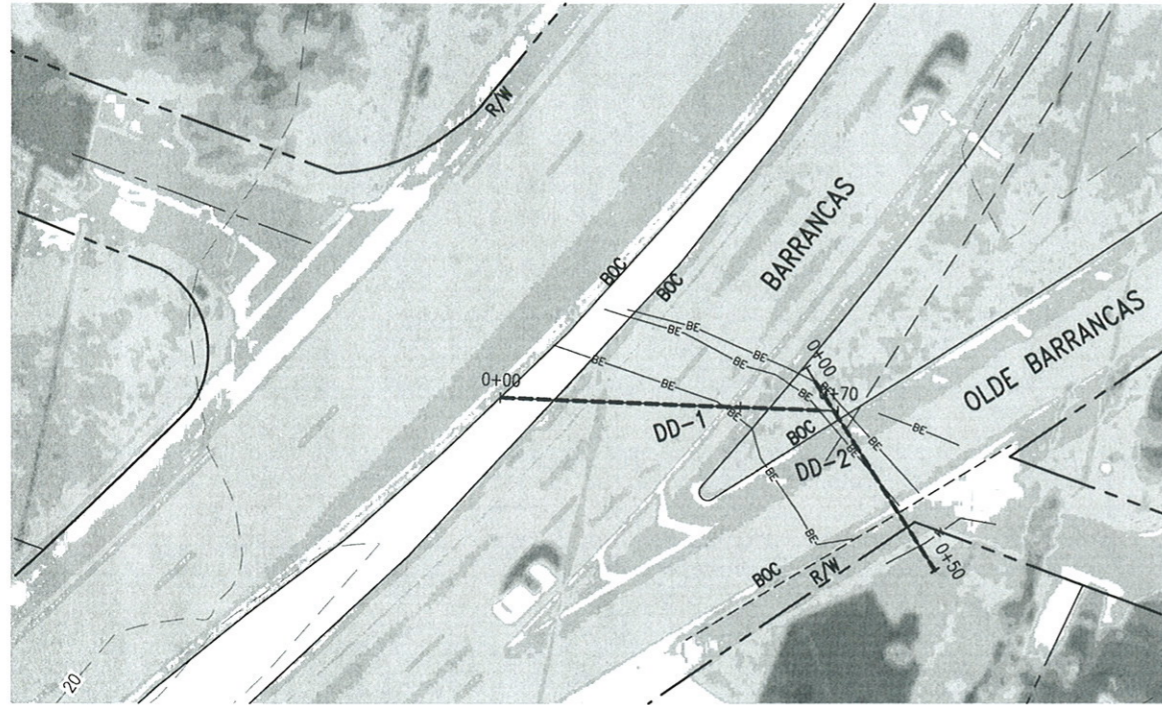
L-110

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
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6.24.18

DIRECTIONAL DRILL #	SHEET #	ROAD NAME	APPROX. BEGIN STA	APPROX. END STA	PIPE DIA. (IN)	MAX ALLOWABLE PIPE DR	MATERIAL TYPE: HDPE: PE3608/PE3408	WET/DRY PULL	CROSSING WIDTH (FT)	TOTAL DRILL LENGTH (FT)	MIN. CROSSING DEPTH (FT)	COMMENTS/ ADDITIONAL CONFLICT INFO
1	L-107	FL 292	0+00	0+80	3	11	HDPE	DRY	45	60	6	
2	L-107	FL 292	0+95	3+70	3	11	HDPE	DRY	30	41	6	
3	L-107	FL 292	4+15	8+30	3	11	HDPE	DRY	50	65	6	
4	L-108	FL 292	7+10	8+35	3	11	HDPE	DRY	53	66	6	
5	L-109	FL 292	10+15	11+45	3	11	HDPE	DRY	256	290	6	

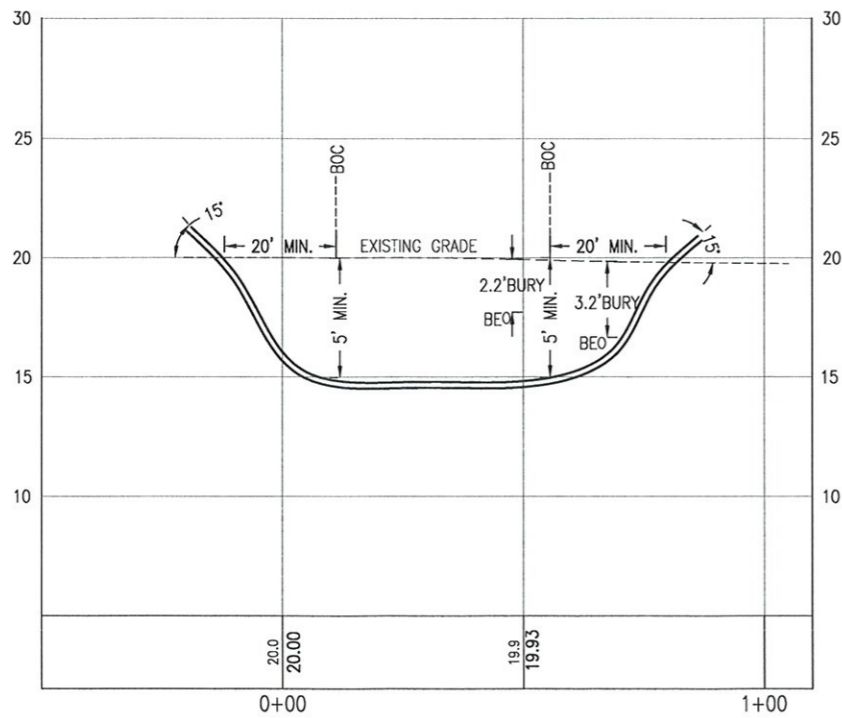
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HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

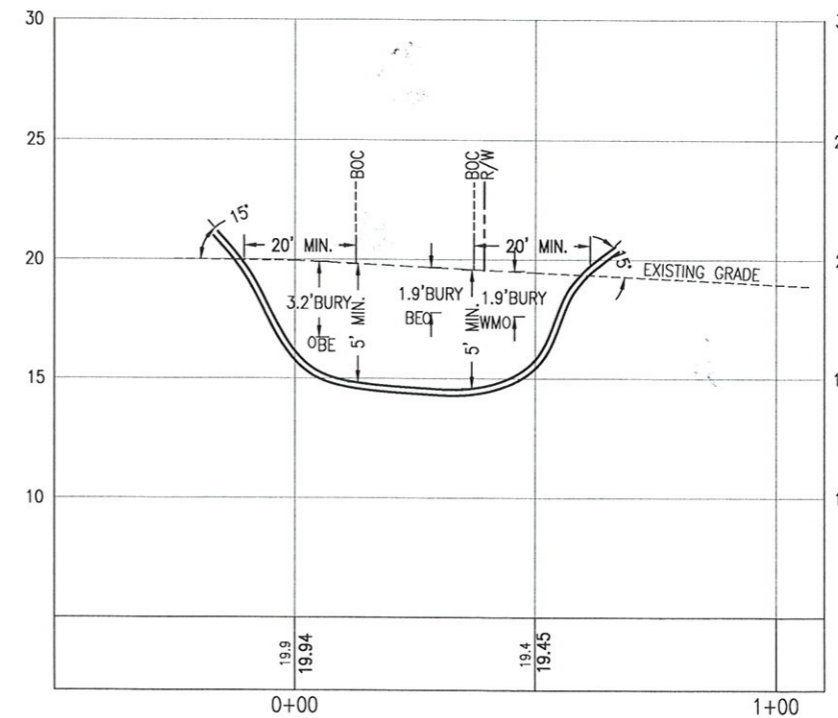
NOTE:
6" BACK REAMER REQUIRED FOR 3" PIPE.

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'



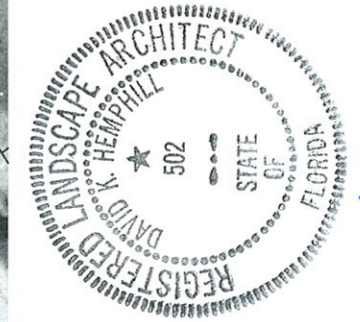
DD1

LEGEND	
BE	BURIED ELECTRIC
WM	WATER MAIN
SD	STORM DRAIN



DD2

SOURCE OF INFORMATION: INFRASTRUCTURE SPECIALTY SOURCES
INVESTIGATION DATE: 4-5-18



BARRANCAS AVENUE
BEAUTIFICATION

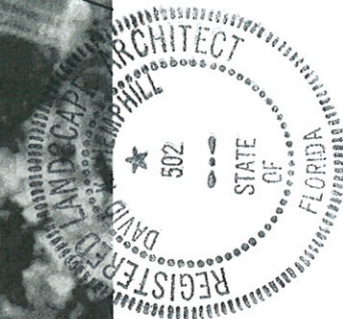
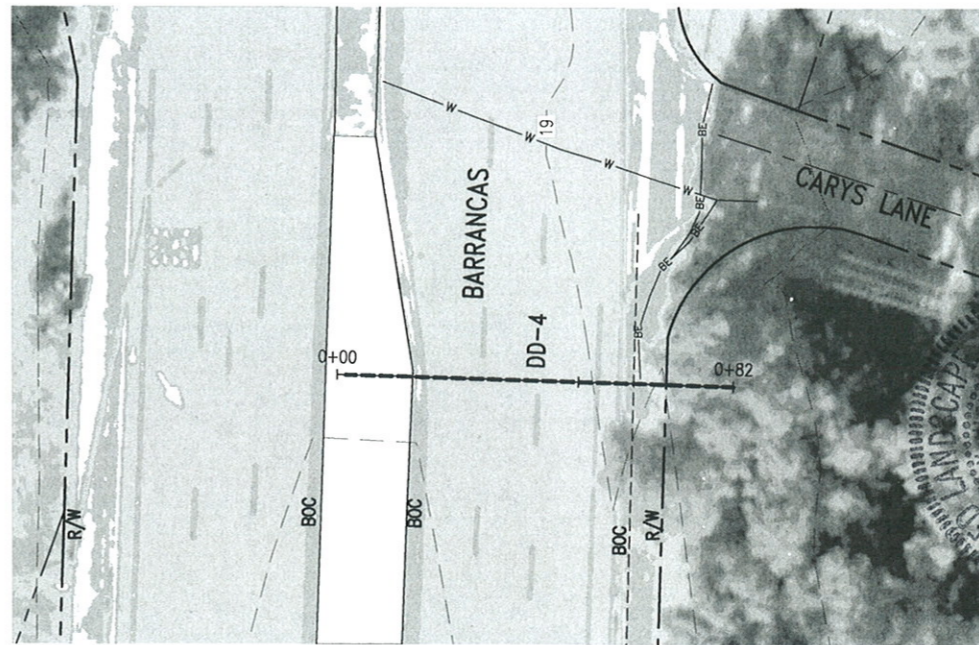
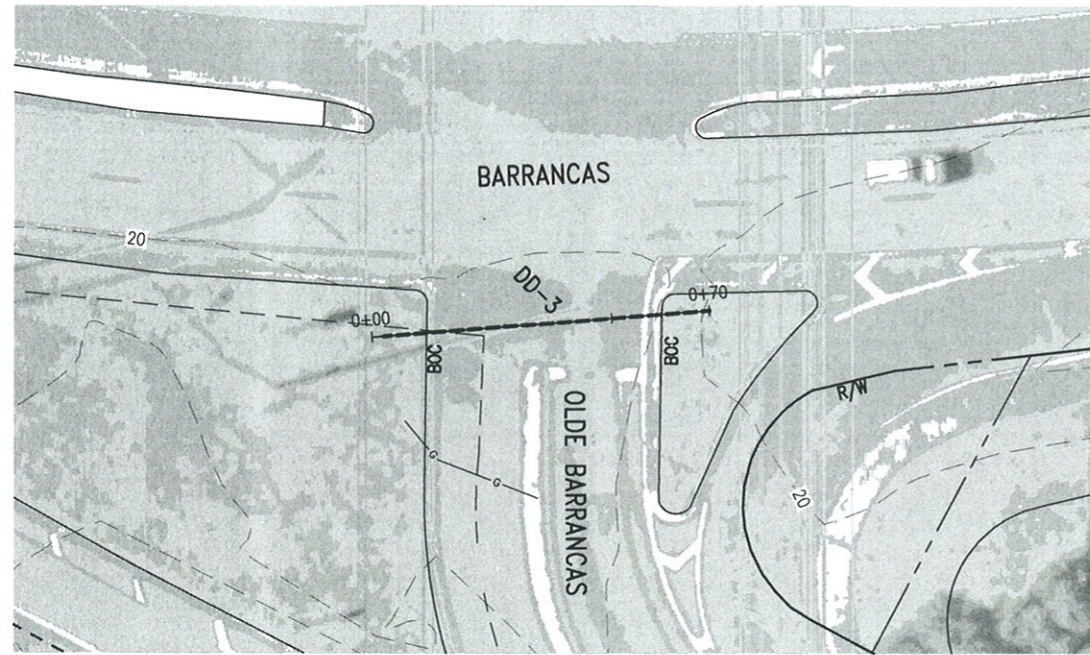
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258103.01	DKH	THO	DKH	DKH	APRIL 2018	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
						NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____			

DIRECTIONAL DRILL
'DD1' AND 'DD2'
PLAN AND PROFILE

L-111

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
483 W. MAIN ST. PENSACOLA, FL 32502 (850) 438-9861
ENGINEERING BUSINESS: EB-0000340
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David K. Hemphill
6-15-18
DAVID K. HEMPHILL
502
REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
Architect #502

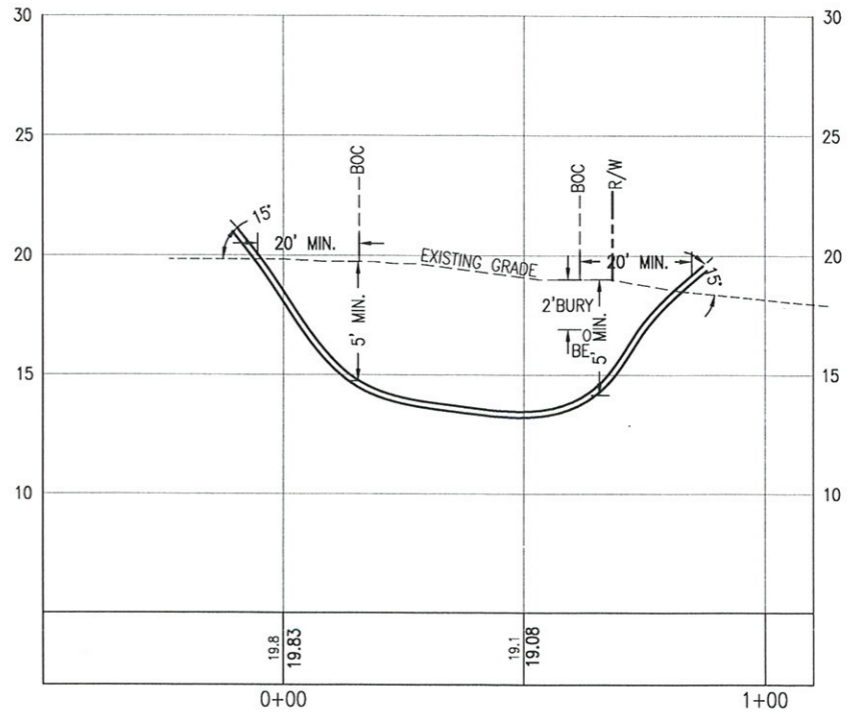
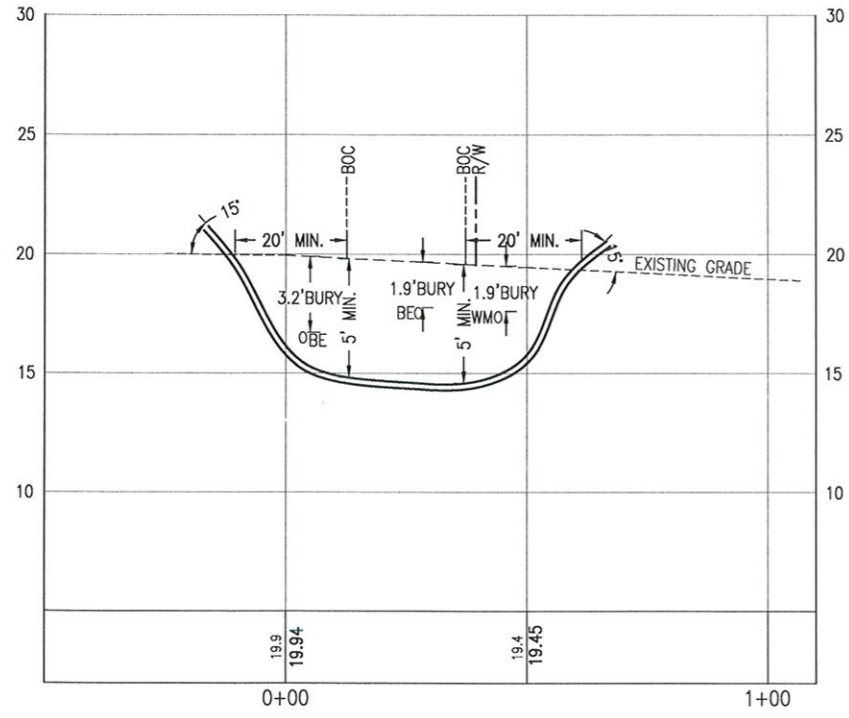


HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTE:
6" BACK REAMER REQUIRED FOR 3" PIPE.

HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

LEGEND	
BE	BURIED ELECTRIC
WM	WATER MAIN
SD	STORM DRAIN



DD3

DD4

SOURCE OF INFORMATION: INFRASTRUCTURE SPECIALTY SOURCES
INVESTIGATION DATE: 4-5-18

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BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
48 W. MAIN ST. PENSACOLA, FL 32502 (850)438-9881
ENGINEERING BUSINESS EB-0000340
Pensacola - Panama City Beach - Melbourne - Tallahassee - Mobile

BARRANCAS AVENUE BEAUTIFICATION

PROJECT NO: 258103.01
DESIGNED BY: DKH
DRAWN BY: THO
CHK'D BY: DKH
PROJ. MGR: DKH
DATE: APRIL 2018

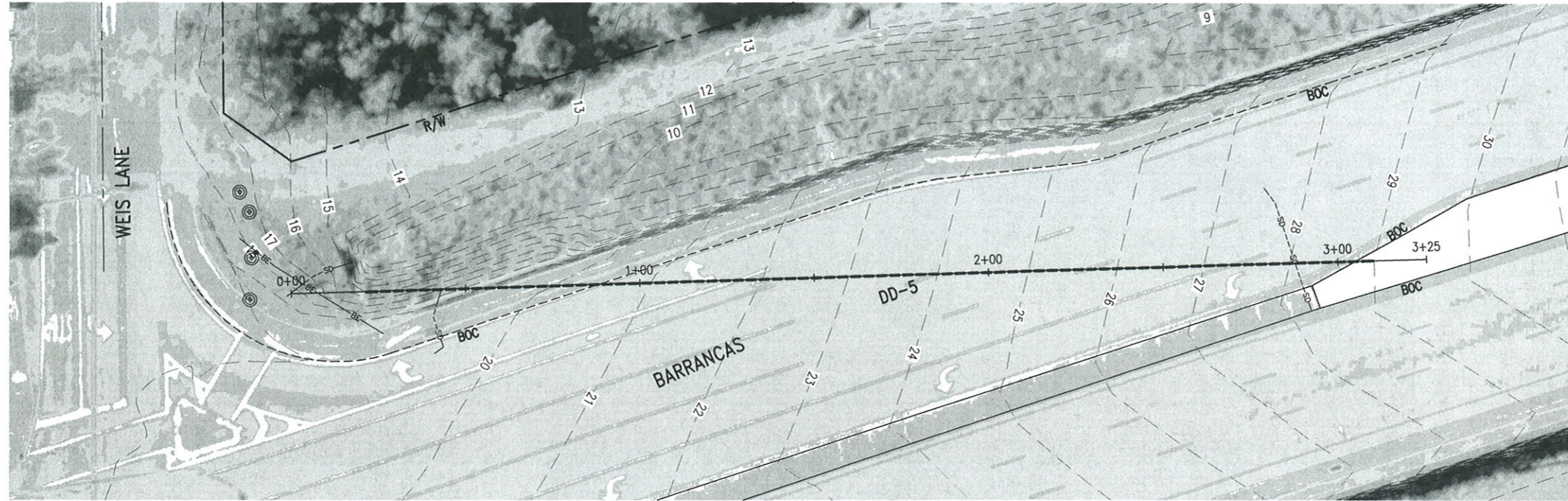
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1	APRIL 2018	DKH	RELEASED FOR PERMITTING

NOT RELEASED FOR CONSTRUCTION BY: DATE: / /

REGISTERED LANDSCAPE ARCHITECT
DAVID LANDSCAPING ARCHITECT
502
STATE OF FLORIDA
6-15-18
DAVID K. HEMPHILL
FL. Reg. Landscape Architect #502

L-112

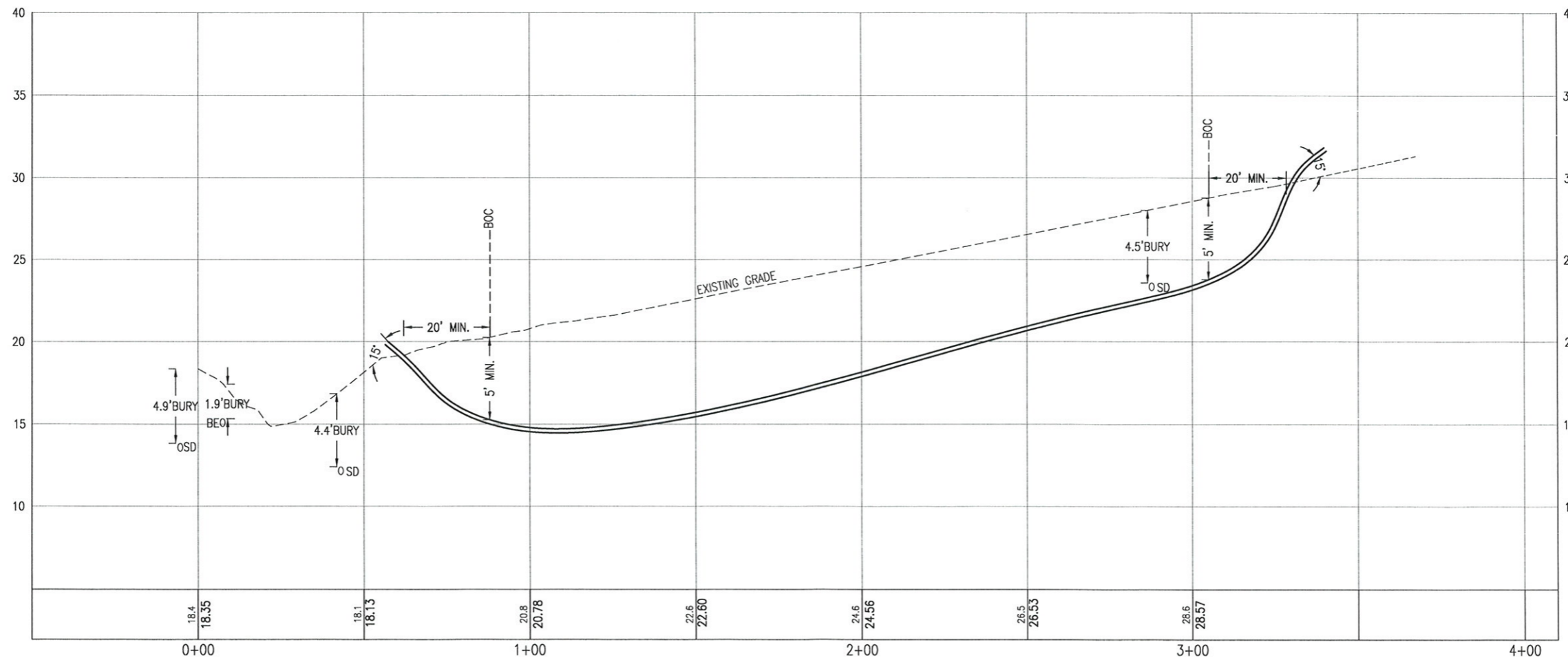
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HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

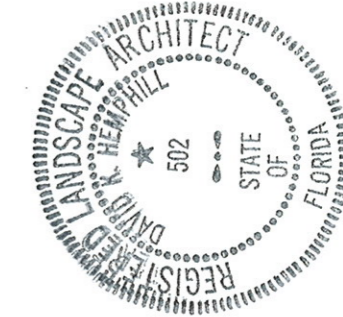
NOTE:
6" BACK REAMER REQUIRED FOR 3" PIPE.

LEGEND	
BE	BURIED ELECTRIC
WM	WATER MAIN
SD	STORM DRAIN



DD5

SOURCE OF INFORMATION: INFRASTRUCTURE SPECIALTY SOURCES
INVESTIGATION DATE: 4-5-18



David K. Hemphill
6/15/18
DAVID K. HEMPHILL
F.L. Reg. Landscape Architect #502

BARRANCAS AVENUE
BEAUTIFICATION

PROJECT NO:	DESIGNED BY:	CHK'D BY:	PROJ. MGR:	DATE:	NO.	DATE	APPR.	REVISION/ACTION TAKEN
258103.01	DKH	DKH	DKH	APRIL 2018	1	APRIL 2018	DKH	RELEASED FOR PERMITTING
	THO							
	DKH							
	DKH							
								NOT RELEASED FOR CONSTRUCTION BY DATE

DIRECTIONAL DRILL
'DD5'
PLAN AND PROFILE

L-113

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
483 W. MAIN ST. PANASCOLA, FL 32502 (850) 438-9881
ENGINEERING BUSINESS: EB-0000340
Panama City Beach - Melbourne - Tallahassee - Mobile
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PLANTING SCHEDULE

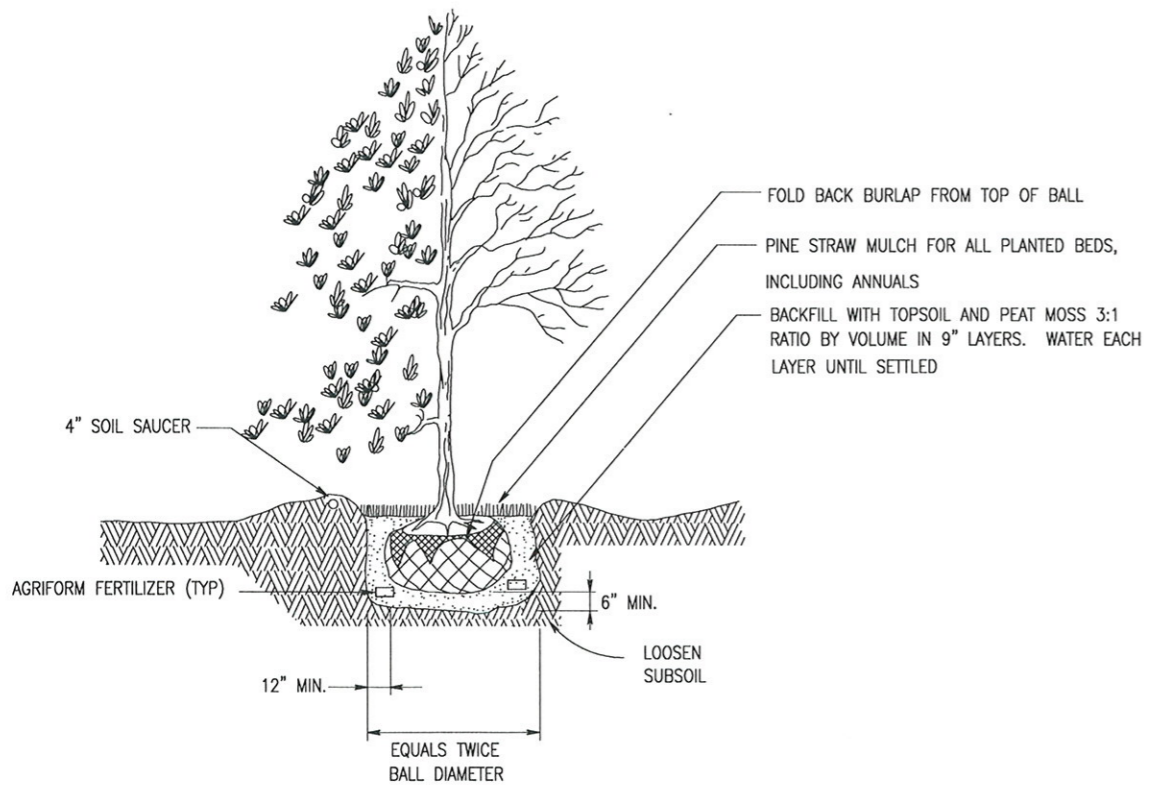
QUANTITY MEDIAN 1	QUANTITY MEDIAN 2	QUANTITY MEDIAN 3	QUANTITY MEDIAN 4	QUANTITY MEDIAN 5	SYMBOL	COMMON NAME	BOTANICAL NAME	HEIGHT	ROOTS	COMMENTS
0	1	0	0	0		CHASTE TREE	Vitex agnus-castus	15'	B&B	SPECIMEN; 8.5' CT, COLLECTED
112	137	0	0	0		BLUE SEDGE	Carex flacca		1 GAL	24" O.C.
1760sq.ft.	2303sq.ft.	654sq.ft.	2370sq.ft.	1323sq.ft.		PERENNIAL PEANUT	Arachis labrata			SOLID SOD
74	378	0	0	0		DWARF FOUNTAIN GRASS	Pennisetum alopecuroides		1 GAL	24" O.C.
500	542	0	500	234		BLUE CHIP BUDDLEIA	Buddleia davidii 'Blue Chip'		1 GAL	24" O.C.
62	0	0	109	58		COONTIE	Zamia floridana		1 GAL	24" O.C.
2	0	0	0	0		LIVE OAK	Quercus virginiana	16'-18'	B&B	8.5 FEET TO THE LOWEST BRANCH
0	0	0	206	82		TIGER EYE DAISY	Rudbeckia 'Tigereye'		1 GAL	18" O.C.
0	0	0	0	35		SOCIETY GARLIC	Tulbaghia violacea		1 GAL	18" O.C.
0	0	30	66	0		ROSE	Rosa	24"	3 GAL	36" O.C.; RED DRIFT
0	427	0	0	0		BLUE RUG JUNIPER	Juniperus horizontalis 'Wiltonii'		3 GAL.	3' O.C.

MEDIAN 1 = 4360 sf
 MEDIAN 2 = 9276 sf
 MEDIAN 3 = 825 sf
 MEDIAN 4 = 5884 sf
 MEDIAN 5 = 2767 sf

SOIL AMENDMENTS:

INSTALL 12cf OF MUSHROOM COMPOST PER 100sf OF AREA IN ALL MEDIANS.
 TOTAL OF 23,110 sf/100 x 12/27 = 103 CUBIC YARDS OF COMPOST

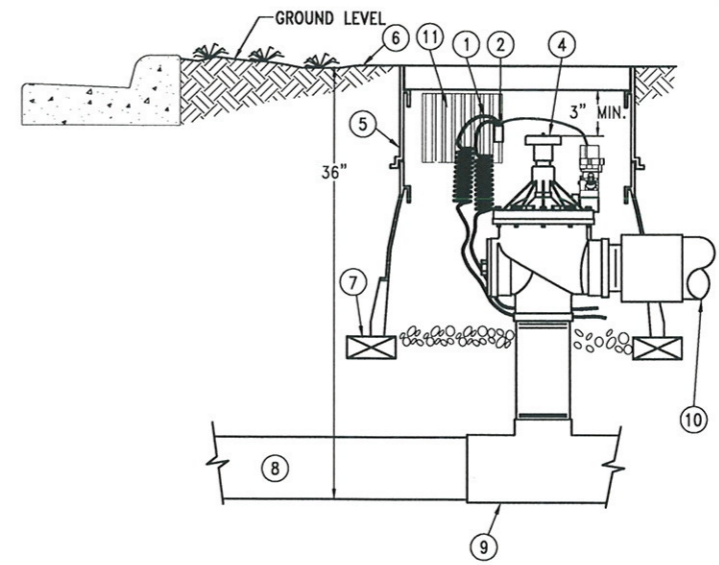
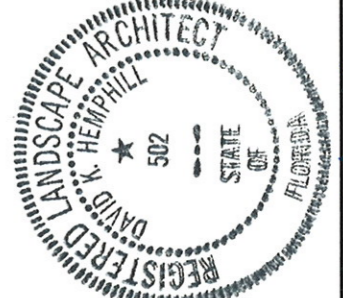
ALL PLANT MATERIAL TO BE GRADED 'FLORIDA FANCY'
 ALL SPACING CALCULATED AS 'TRIANGULAR'



A4 TREE & SHRUB PLANTING DETAIL
 SCALE: NOT TO SCALE

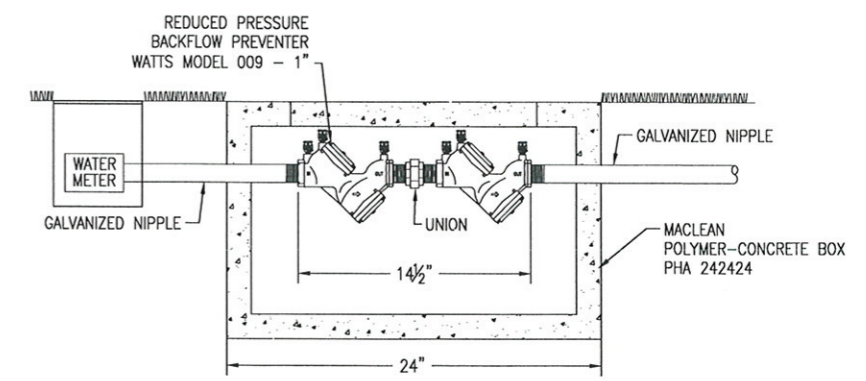
IRRIGATION SCHEDULE

QUANTITY	SYMBOL	MNFR	DESCRIPTION	MODEL NO.	COMMENTS
3			WATTS BACKFLOW PREVENTER	009	
9		RAINBIRD	ELEC. SOLENOID VALVE	100-PEB	INSTALL IN AMETEK BOX
4			ISOLATION GATE VALVE	SAME SIZE AS PIPE	BRONZE, IN AMETEK BOX
			HDPE SLEEVES		
			1 1/2" MAIN	SDR 21	
1		RAINBIRD	CONTROLLER	ESP-SMTE	
		PAIGE	CONTROLLER WIRE	UF-14	
1		RAINBIRD	FIELD TRANSMITTER	TBOS2FUS	
9		RAINBIRD	CONTROL MODULE	TBOS2CM1	
1		RAINBIRD	RAIN SENSOR	RSD-BEX	
-	-	RAINBIRD	DRIPLINE	XFS-09012-500	



- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
- 4 REMOTE CONTROL VALVE: RAIN BIRD 150PEB
- 5 VALVE BOX WITH COVER:
- 6 FINISH GRADE/TOP OF MULCH
- 7 BRICK (1 OF 4)
- 8 3" MAIN LINE PIPE
- 9 TEE
- 10 PVC LATERAL PIPE
- 11 CONTROL MODULE
- 12 INCLUDE FREEZE SENSOR

B4 ELECTRIC SOLENOID VALVE
 NOT TO SCALE



REMOVE AND REPLACE SIDEWALK TO INSTALL BACKFLOW PREVENTER FLUSH WITH EXISTING PAVEMENT.

A4 BACKFLOW PREVENTER DETAIL
 NOT TO SCALE

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BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions

449 W. MAIN ST. PENSACOLA, FL 32502 (850) 388-8661
 ENGINEERING BUSINESS: EB-000004

Pensacola - Panama City Beach - Melbourne - Tallahassee - Mobile

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David K. Hemphill

6.15.18

D.K. Hemphill
 FL Reg. Landscape Architect #502

BARRANCAS AVENUE
BEAUTIFICATION

REVISION/ACTION TAKEN

APPR. DKH

DATE APRIL 2018

NO. 1

PROJECT NO. 258103.01

DESIGNED BY: DKH

DRAWN BY: THO

CHK'D BY: DKH

PROJ. MGR: DKH

DATE: APRIL 2018

NOT RELEASED FOR CONSTRUCTION BY _____ DATE _____

LANDSCAPE
DETAILS

L-900