

CONSTRUCTION PLANS FOR STATE ROAD 292 BARRANCAS AVENUE BEAUTIFICATION

PREPARED FOR



ESCAMBIA COUNTY

BDI PROJECT No. 258103.01
APRIL 2018

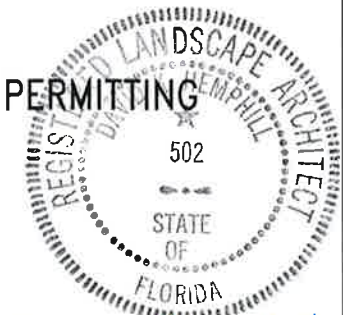
PREPARED BY

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

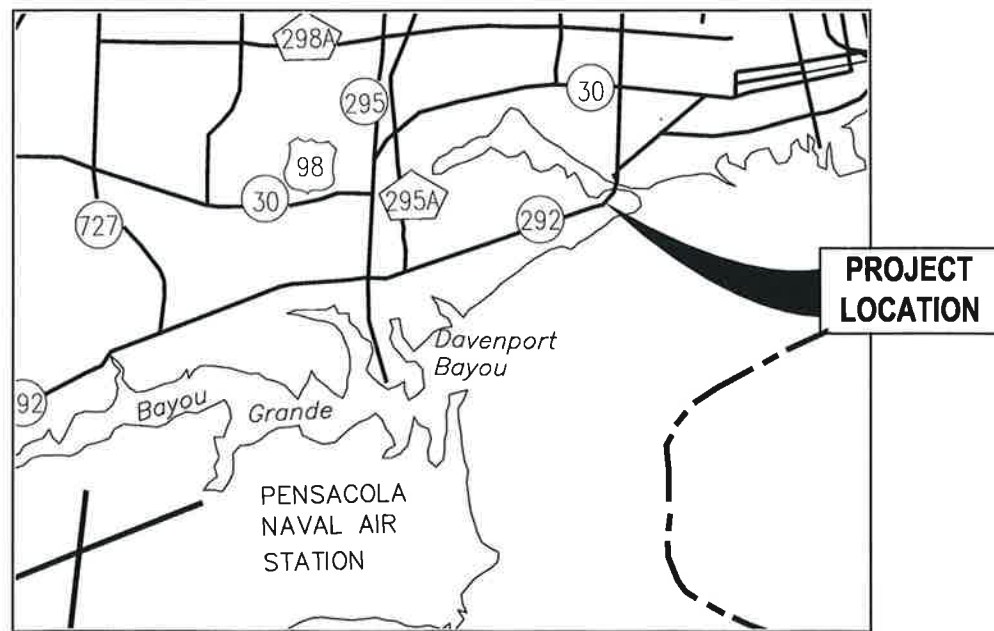
RELEASED FOR PERMITTING



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

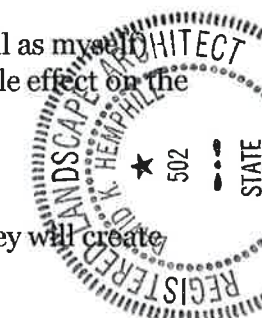
RENEE ELLIS / REAL ESTATE MANAGER

LAMAR ADVERTISING OF PENSACOLA

office (850)433-0024

cell (850)565-0088

fax (850)438-1201



BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 449 W. MAIN ST. PENSACOLA, FL 32502 (850)438-6661
 ENGINEERING BUSINESS: EB-000340
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**BARRANCAS AVENUE
BEAUTIFICATION**

Dave K. Hemphill

DWID K. HEMPHILL
 F.L. Reg. Landscape Architect #502

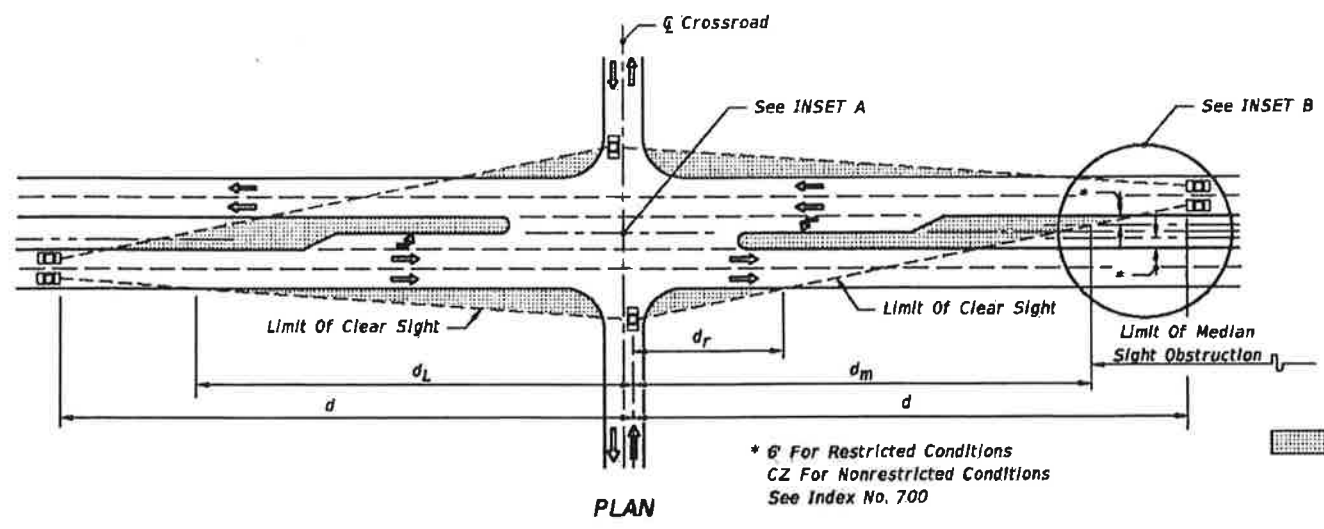
**SIGN COMPANY
APPROVAL**

| 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

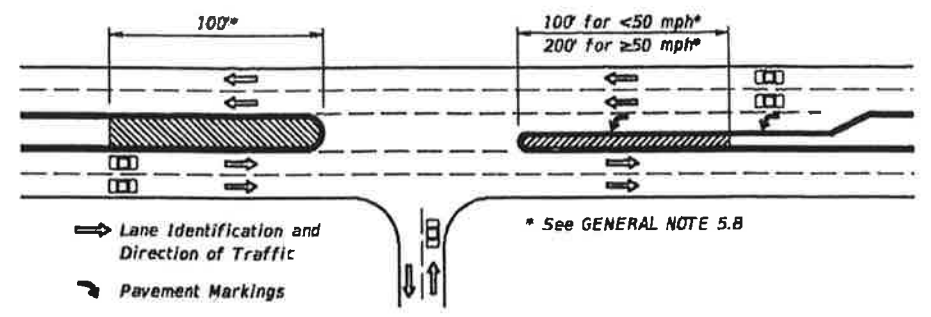
5.24.18

K:\258\258103.01 - Beautification - Barrancas\DWG\G-001.dwg, Apr. 24, 2018 - 10:56:12AM, toverton



* 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 Engineers 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 | >11 \leq 18 | >4 \leq 11 | >11 \leq 18 | >4 \leq 11 | >11 \leq 18 | >4 \leq 11 | >11 \leq 18 | >4 \leq 11 | >11 \leq 18 | >4 \leq 11 | >11 \leq 18 | >4 \leq 11 | >11 \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. A single line of trees in the median parallel to but not necessarily collinear with the centerline.
 b. A straight approaching mainline, within skew limits as described in No. 2 above.
 c. 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.
 d. 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'-6" 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 |

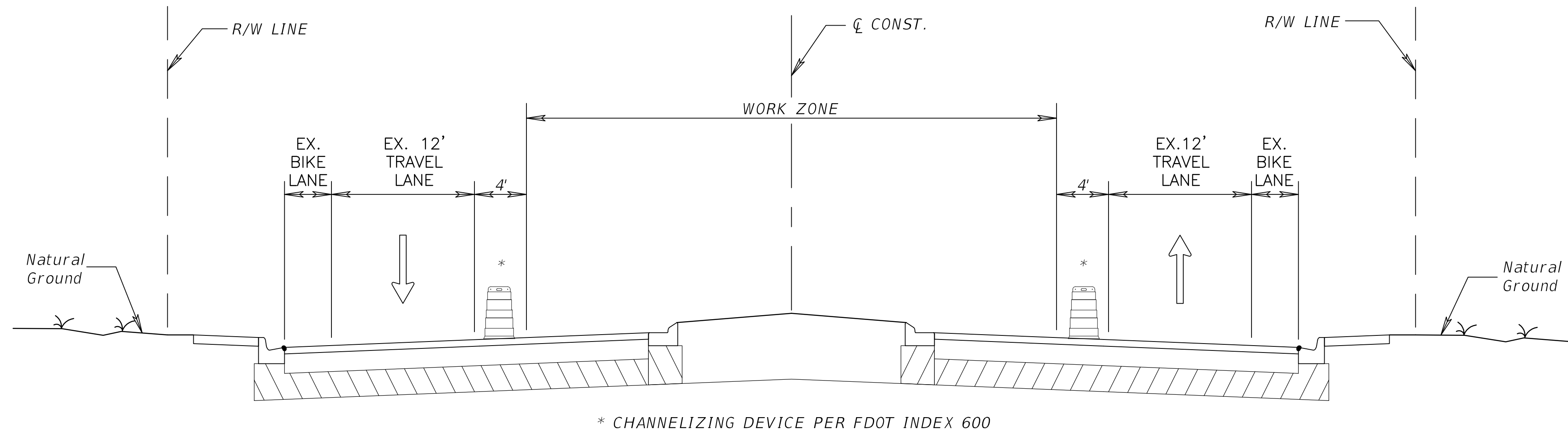
35'-50" MEDIAN

| 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 |

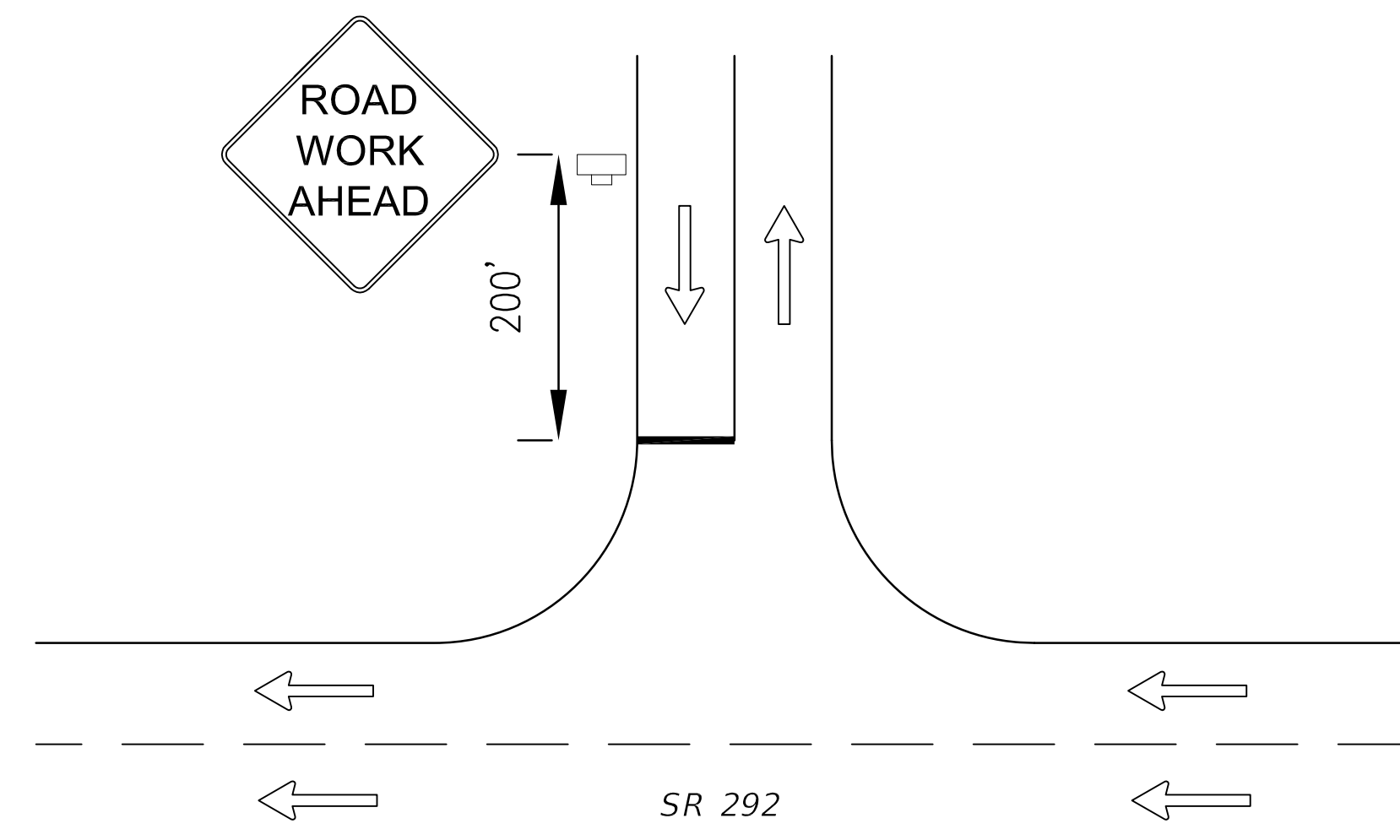
| NO. | DATE | APPR. | REVISION/ACTION TAKEN |
|-----|------------|-------|-------------------------|
| 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |

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.



TYPICAL TRAFFIC CONTROL CROSS SECTION

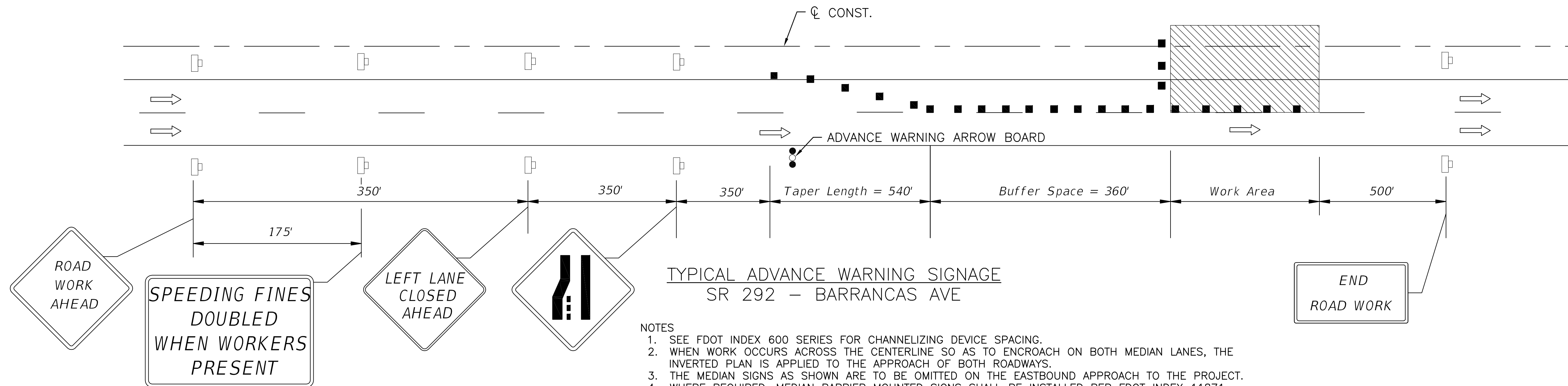


TYPICAL SIDE STREET CONSTRUCTION ZONE SIGNING DETAIL

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



TYPICAL ADVANCE WARNING SIGNAGE SR 292 - BARRANCAS AVE

- 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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BASKERVILLE-DONOVAN, INC.
 Innovative Infrastructure Solutions
 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
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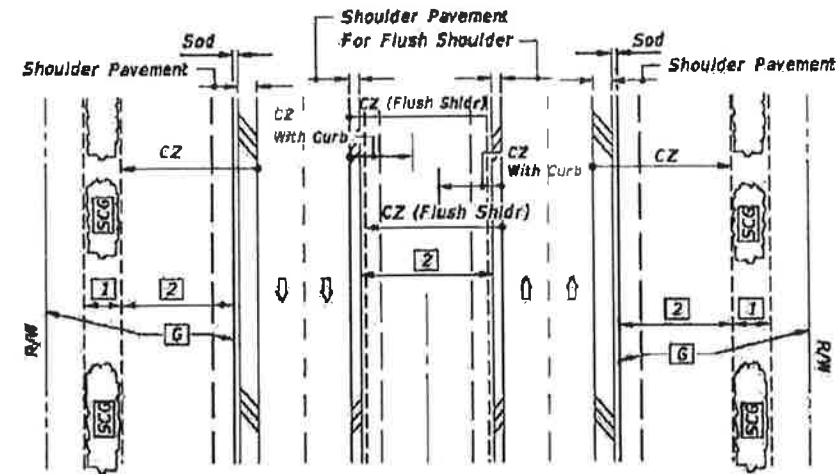
J. PATRICK BURKE, P.E.
 FL Reg. Engineer #62313

**BARRANCAS AVENUE
 BEAUTIFICATION**

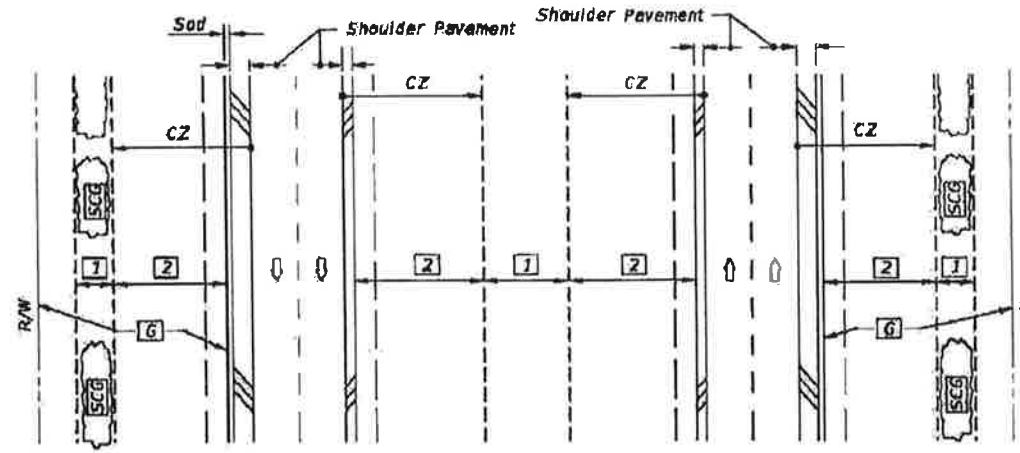
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| DESIGNED BY: | JPB | | | | | | | | |
| DRAWN BY: | JPB | | | | | | | | |
| CHKD BY: | MOL | | | | | | | | |
| PROJ. MGR: | DKH | | | | | | | | |
| DATE: | APRIL 2018 | | | | | | | | |
| | | | | | | | | | NOT RELEASED FOR CONSTRUCTION BY DATE |

TEMPORARY TRAFFIC CONTROL PLAN

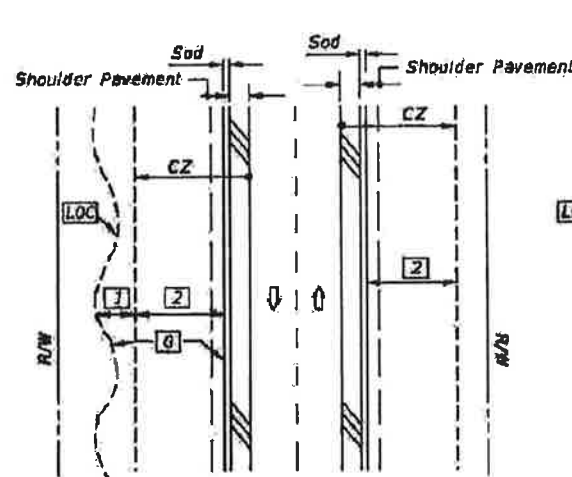
G-003



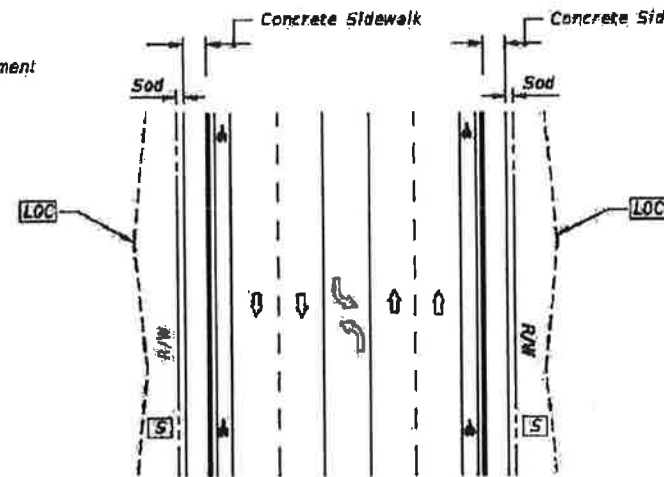
DIVIDED NARROW MEDIAN WITH OR WITHOUT CURBED MEDIAN



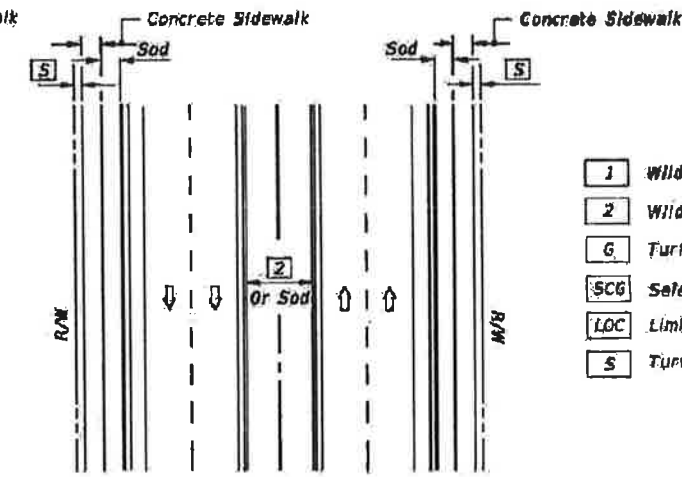
DIVIDED WIDE MEDIAN WITH OR WITHOUT CURBED MEDIAN



UNDIVIDED FLUSH SHOULDER



UNDIVIDED CURBED



DIVIDED CURBED

- LEGEND**
- 1 Wildflower Group #1
 - 2 Wildflower Group #2
 - 6 Turf (To Limit of Construction)
 - SC6 Selective Clearing And Grubbing
 - LOC Limits Of Construction
 - 5 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 |
| Sophist's 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

- All turf establishment shall be performed meeting the requirements of Section 570 of the Standard Specifications.
- 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.
- Confirm compatibility of wildflower with Seeding Zones.

SEEDING ZONES



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

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

LAST REVISION 07/01/07

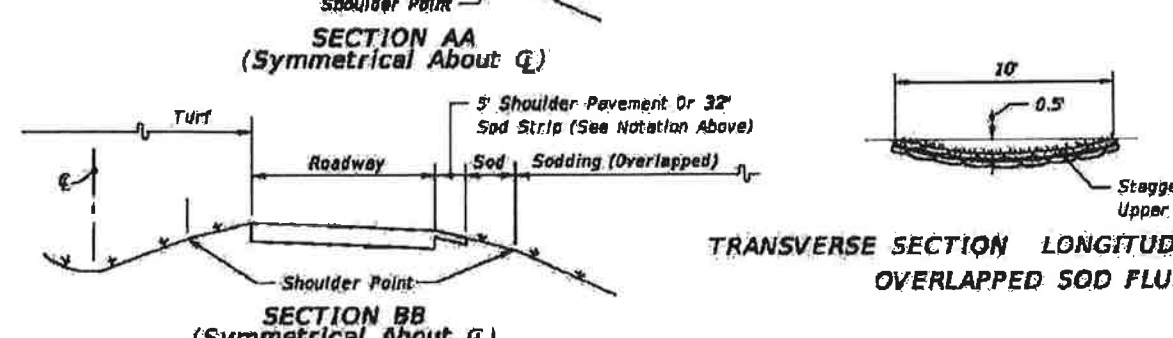
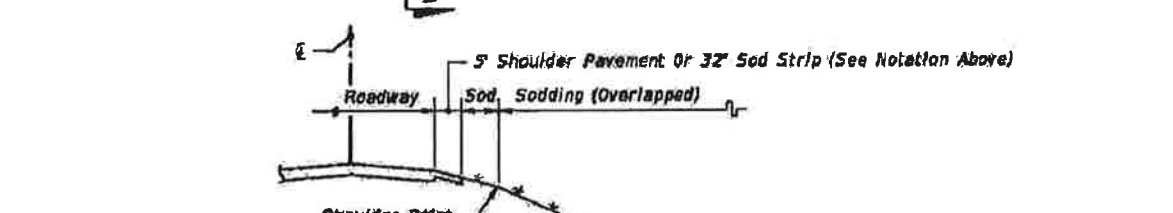
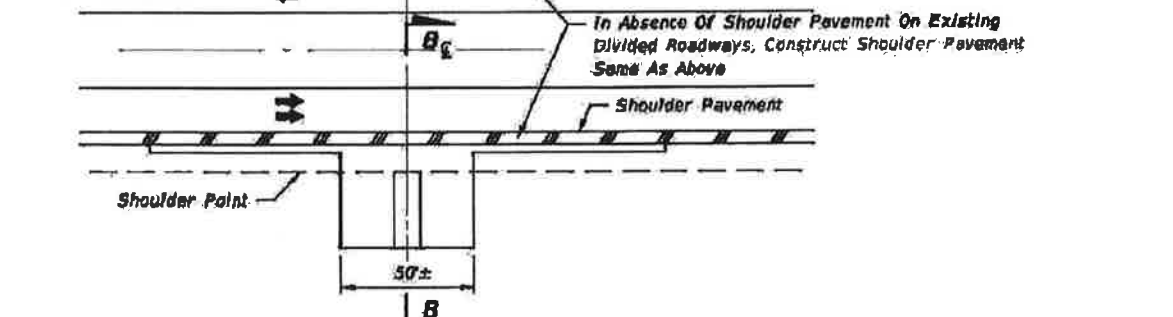
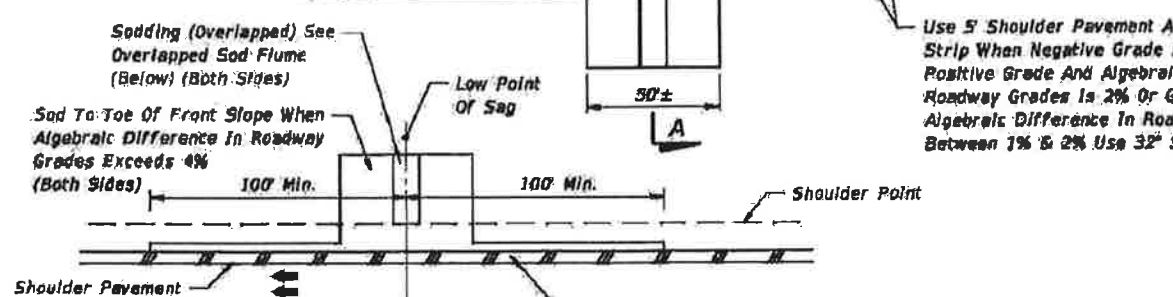
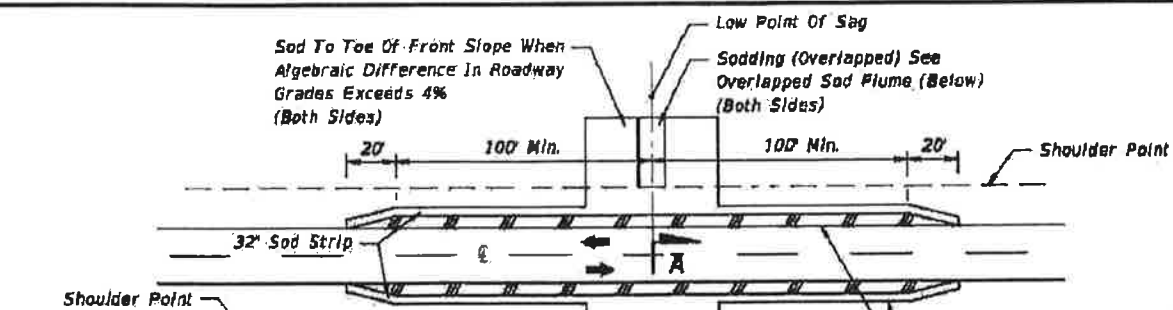
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FDOT FY 2017-18 DESIGN STANDARDS

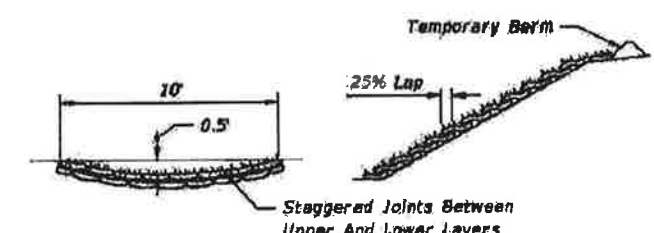
PERMANENT EROSION CONTROL

INDEX NO. 104

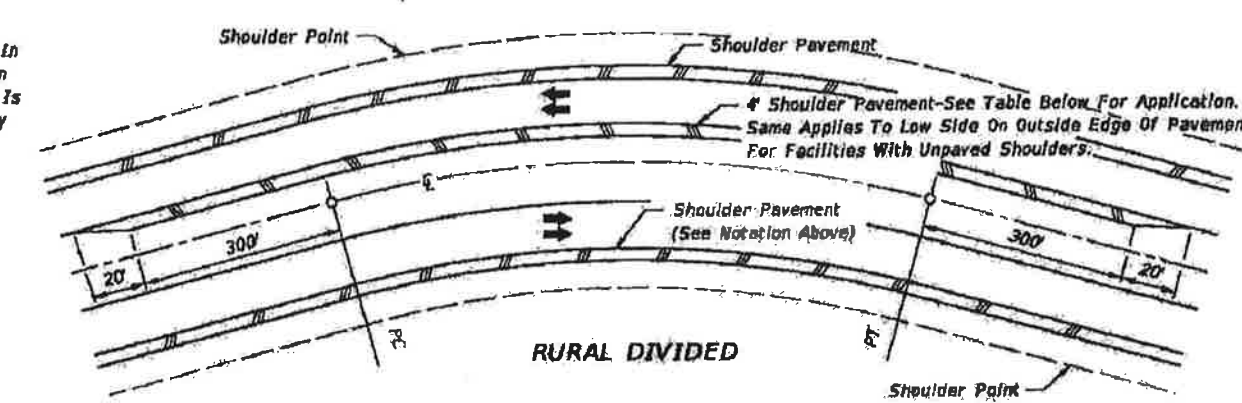
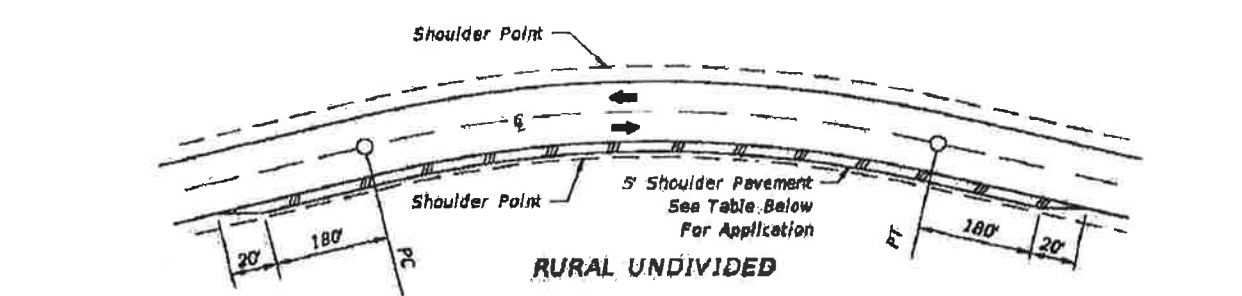
SHEET NO. 1 OF 2



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. 281.
 - All front slopes steeper than 1:3 are to be sodded.

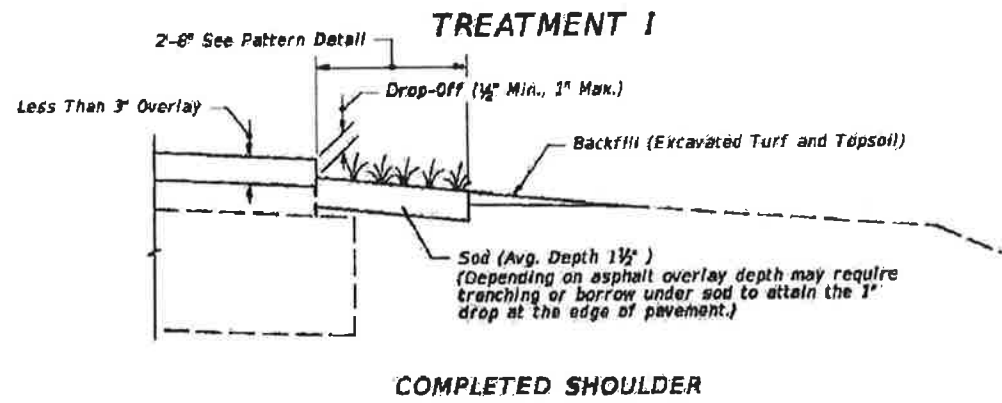
TREATMENTS FOR PROTECTION FROM CONCENTRATED ROADWAY RUNOFF EROSION AND SHOULDER RAVELING

| | | | | | |
|---------------------------|--------------|--|---------------------------|------------------|---------------------|
| 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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| DESIGNED BY: | DKH | PROL. MGR.: | DKH | DATE: | APRIL 2018 | NOT RELEASED FOR CONSTRUCTION BY: | DATE: | | |
| DRAWN BY: | THO | | | | | | | | |

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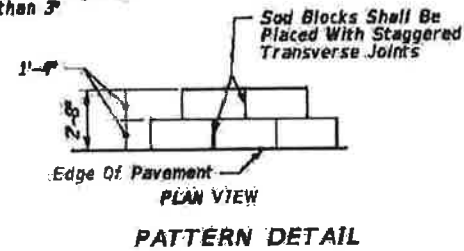
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COMPLETED SHOULDER

CRITERIA FOR USING TREATMENT I

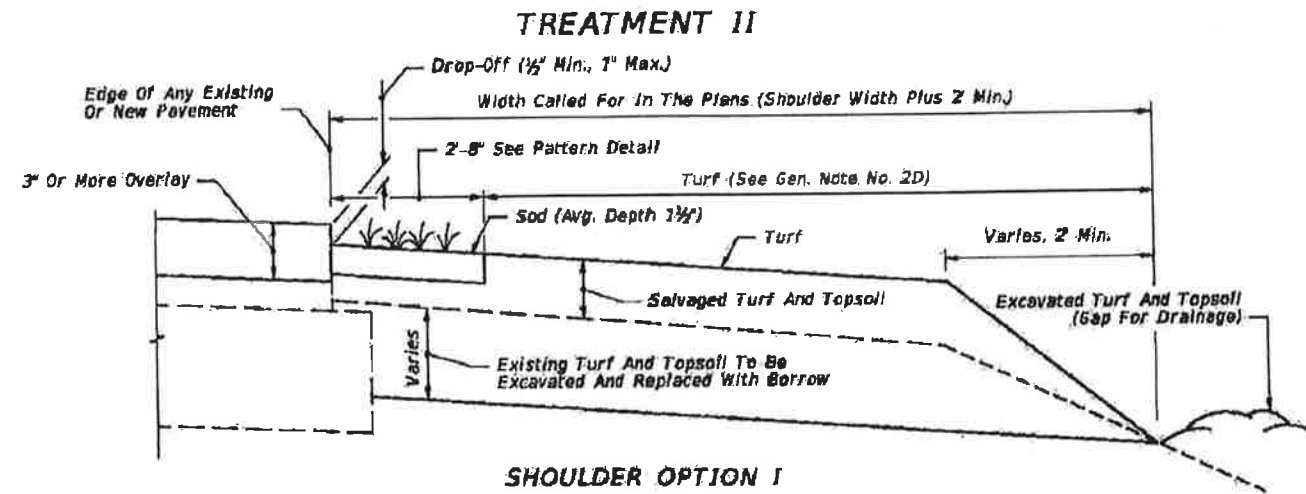
- Project
- is resurfacing, widening and resurfacing or construction of shoulder pavement
 - is rural or is urban without curb and gutter
 - resurfacing build-up is less than 3"



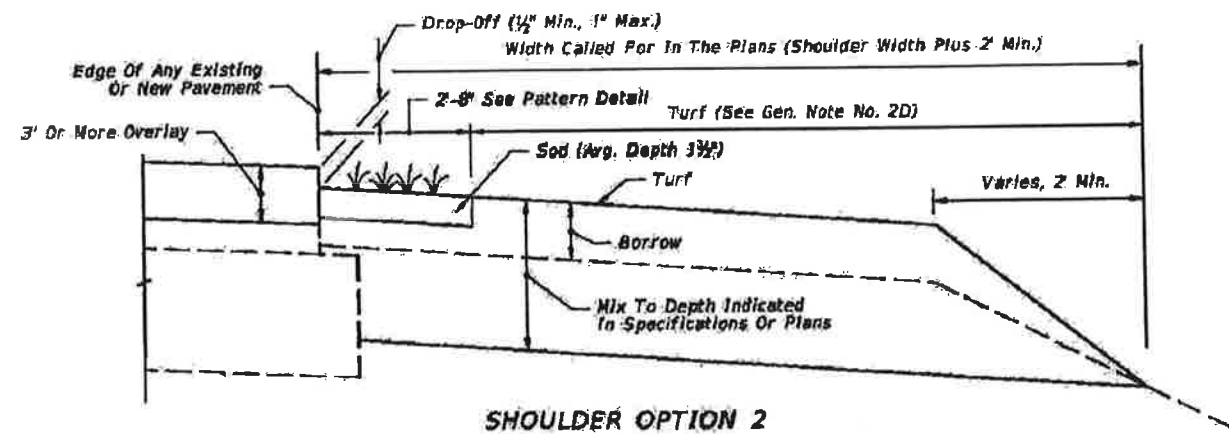
PATTERN DETAIL

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 |

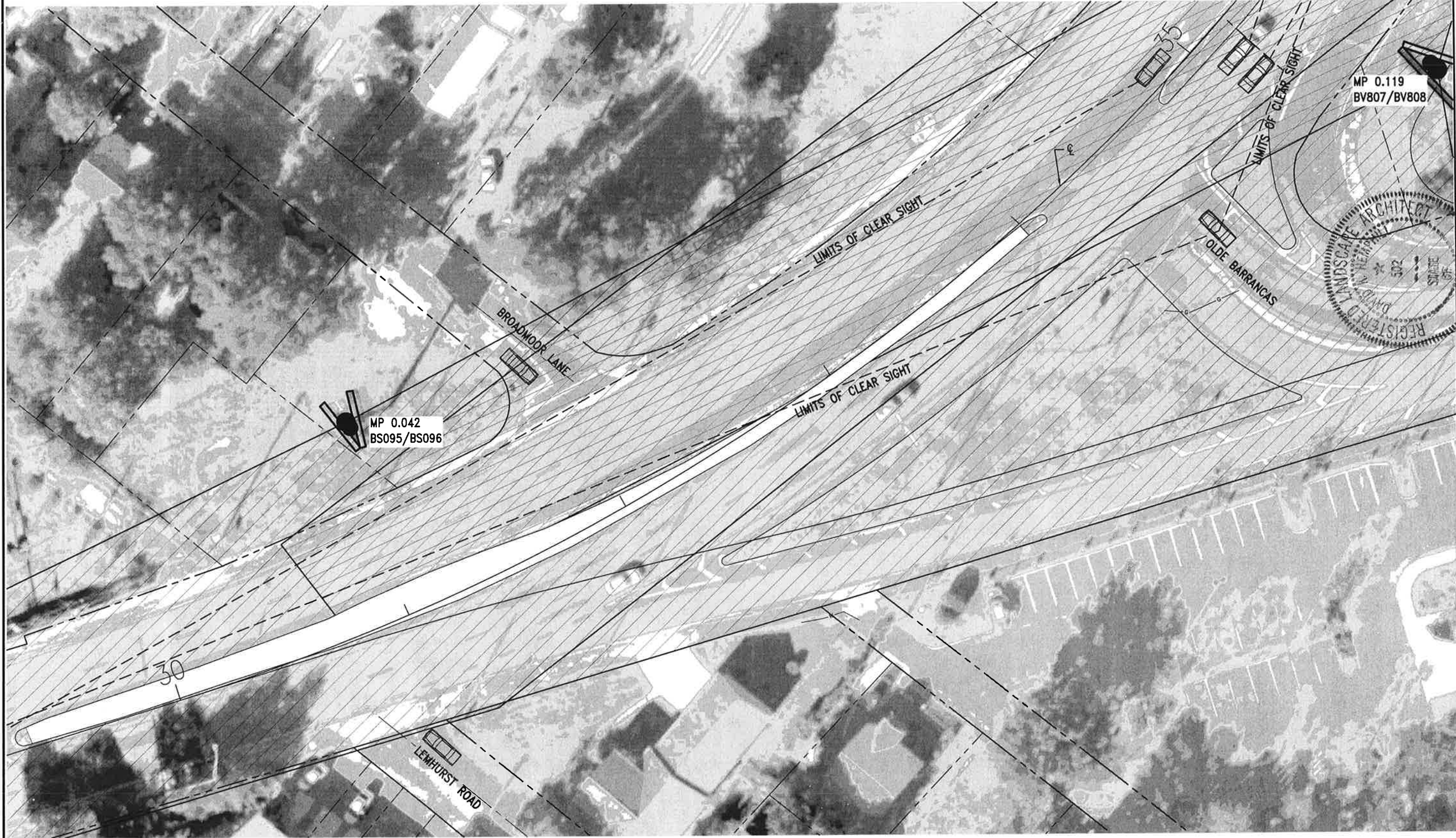
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| 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |

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| | | | | | |
|---------------------------|--------------|--|---|------------------|---------------------|
| 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 |
|---------------------------|--------------|--|---|------------------|---------------------|

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(A1)

MEDIAN 1, 2 & 3 SIGHT DISTANCE ANALYSIS

SCALE: 1" = 20'



**BARRANCAS AVENUE
BEAUTIFICATION**

| | | | | | |
|--------------|------------|-----|------------|-------|---|
| PROJECT NO: | 258103.01 | NO. | DATE | APPR. | REVISION/ACTION TAKEN |
| DESIGNED BY: | DKH | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
| DRAWN BY: | THO | | | | |
| CHK'D BY: | DKH | | | | |
| PROJ. MGR: | DKH | | | | |
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**MEDIAN 1, 2 & 3
SIGHT DISTANCE
ANALYSIS**

L-100

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

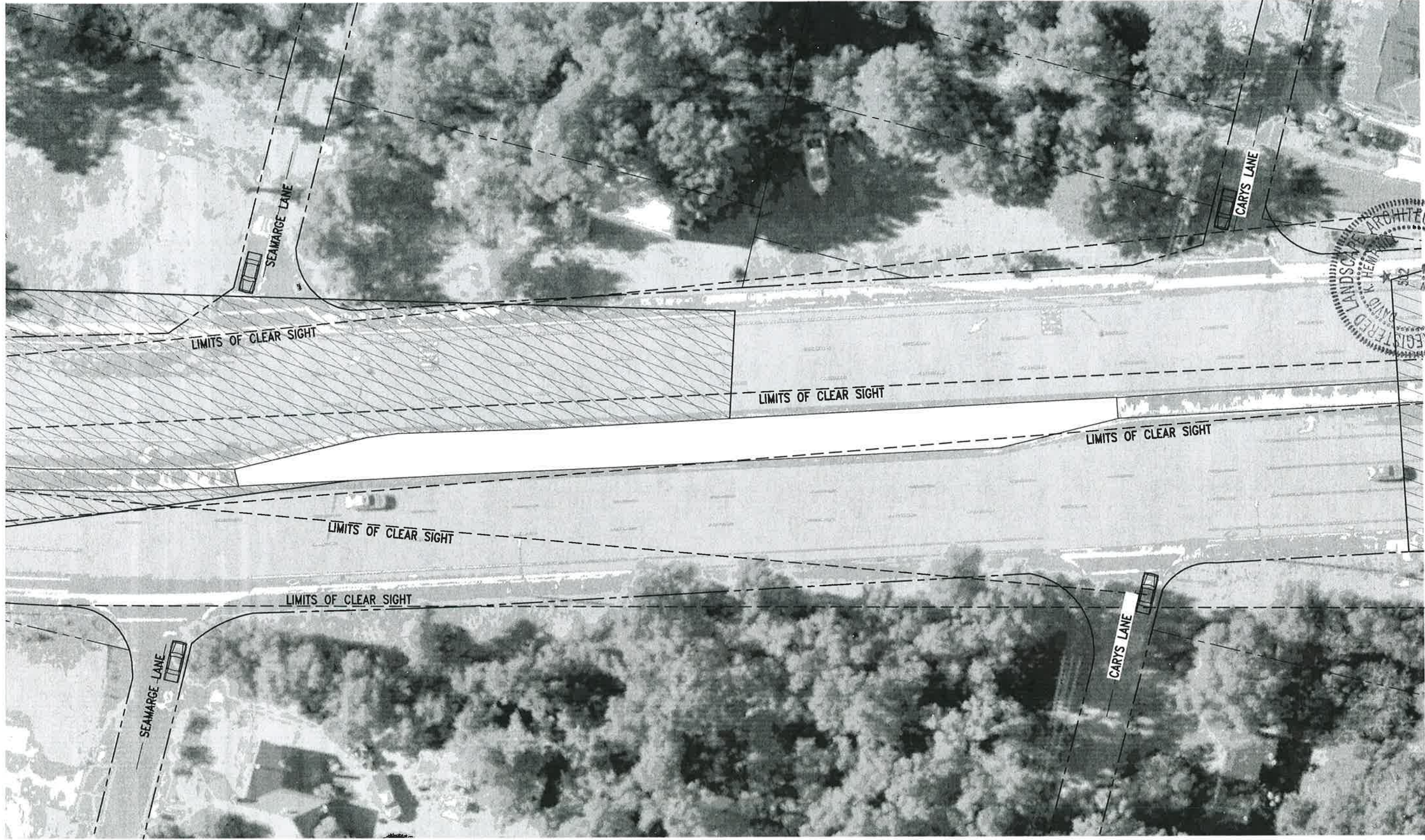
449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861
ENGINEERING BUSINESS: EB-0000340

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FLORIDA
REGISTERED LANDSCAPE ARCHITECT
DAVID K. HEMPHILL
FL. Reg. Landscape Architect #502

David K. Hemphill
5.24.18

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



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| 258103.01 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
| DESIGNED BY: | DKH | | | |
| DRAWN BY: | TJO | | | |
| CHK'D BY: | DKH | | | |
| PROJ. MGR: | DKH | | | |
| DATE: | APRIL 2018 | | | |

**MEDIAN 4
 SIGHT DISTANCE
 ANALYSIS**

5.24.18

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



**BARRANCAS AVENUE
 BEAUTIFICATION**

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 ENGINEERING BUSINESS: EB-0000340
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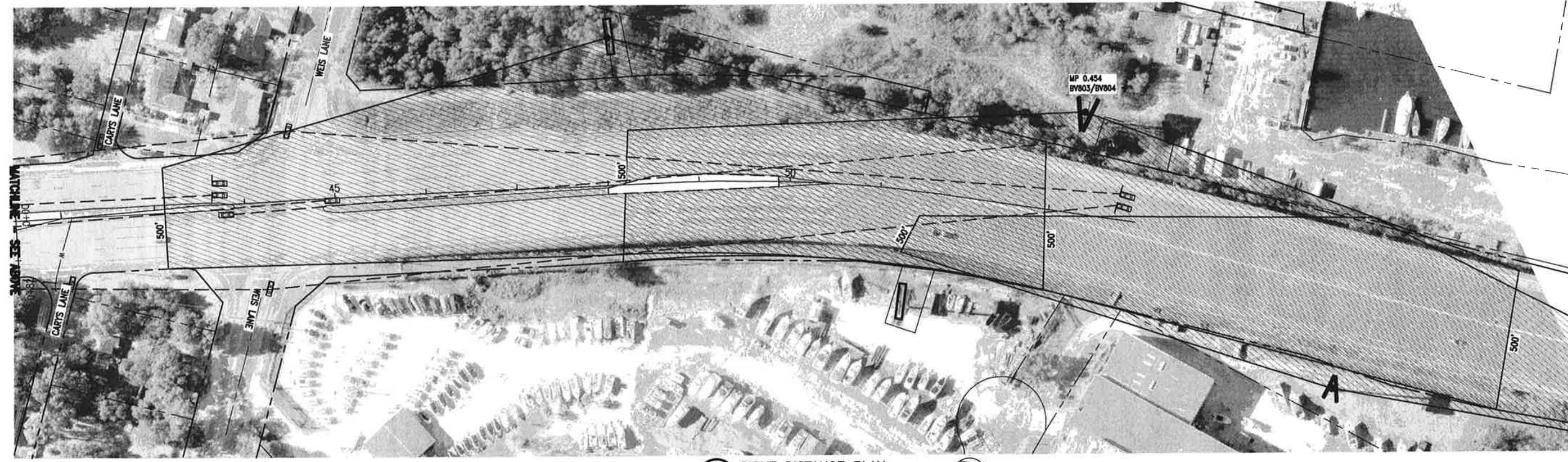
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|------------------|-----|------------|-------|-------------------------|
| 258103.01 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
| DESIGNED BY: DKH | | | | |
| DRAWN BY: THO | | | | |
| CHK'D BY: DKH | | | | |
| PROJ. MGR: DKH | | | | |
| DATE: APRIL 2018 | | | | |

**MEDIAN 5
 SIGHT DISTANCE
 ANALYSIS**

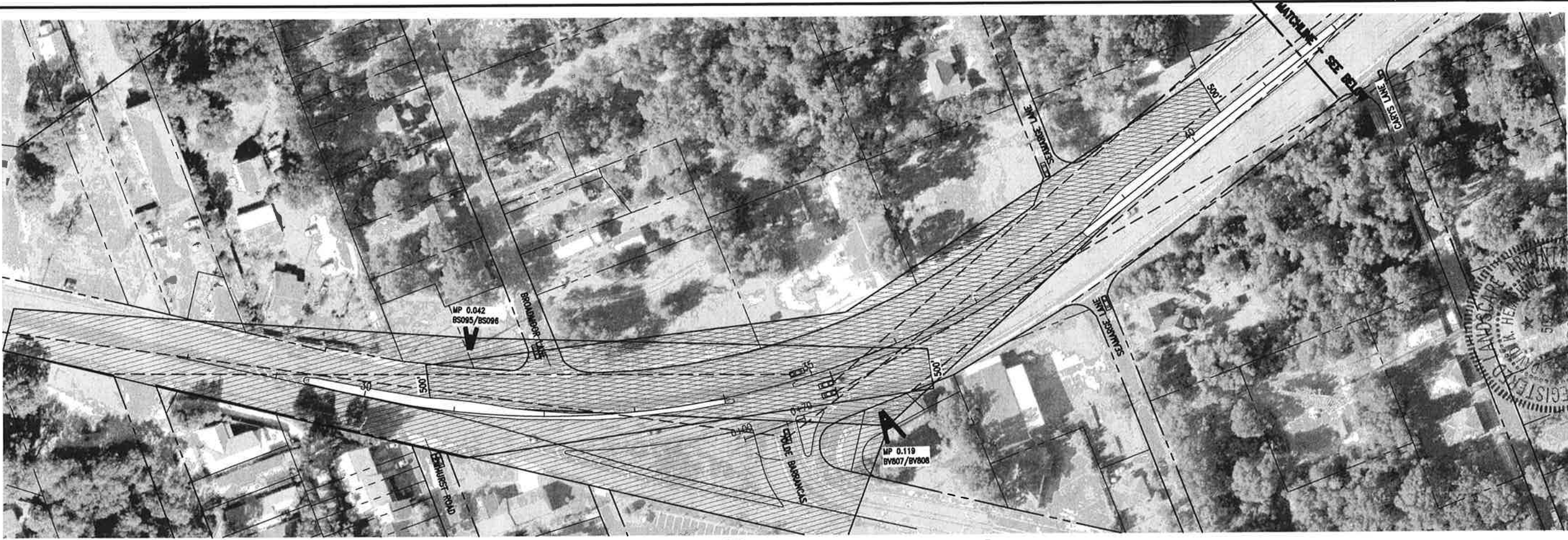
L-102

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 | | | |
| | | | | NOT RELEASED FOR CONSTRUCTION BY DATE |

**BARRANCAS AVENUE
BEAUTIFICATION**

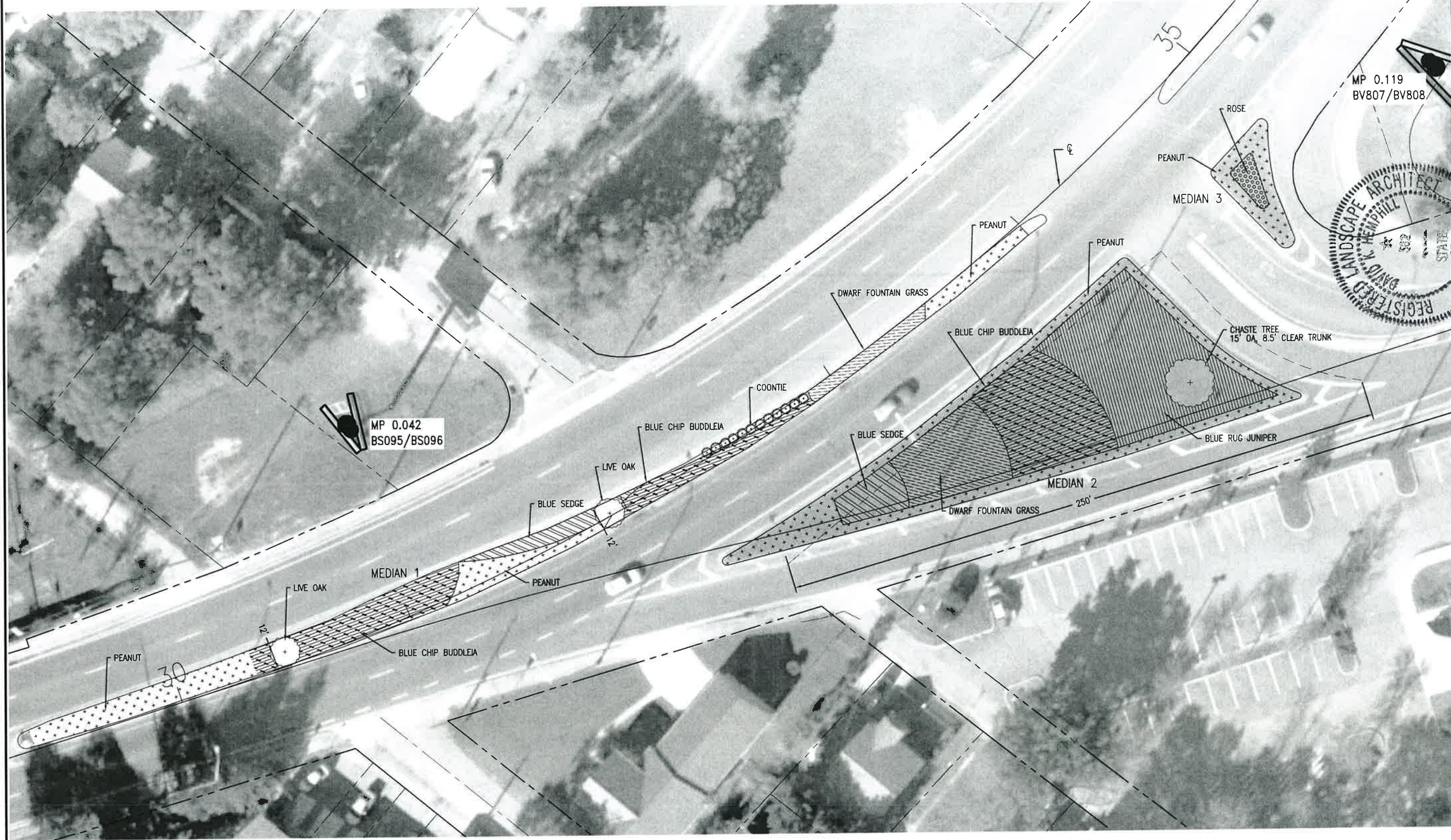
BASKERVILLE-DONOVAN, INC.
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REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
K. HEWITT
512

David K. Hewitt
David K. Hewitt
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'



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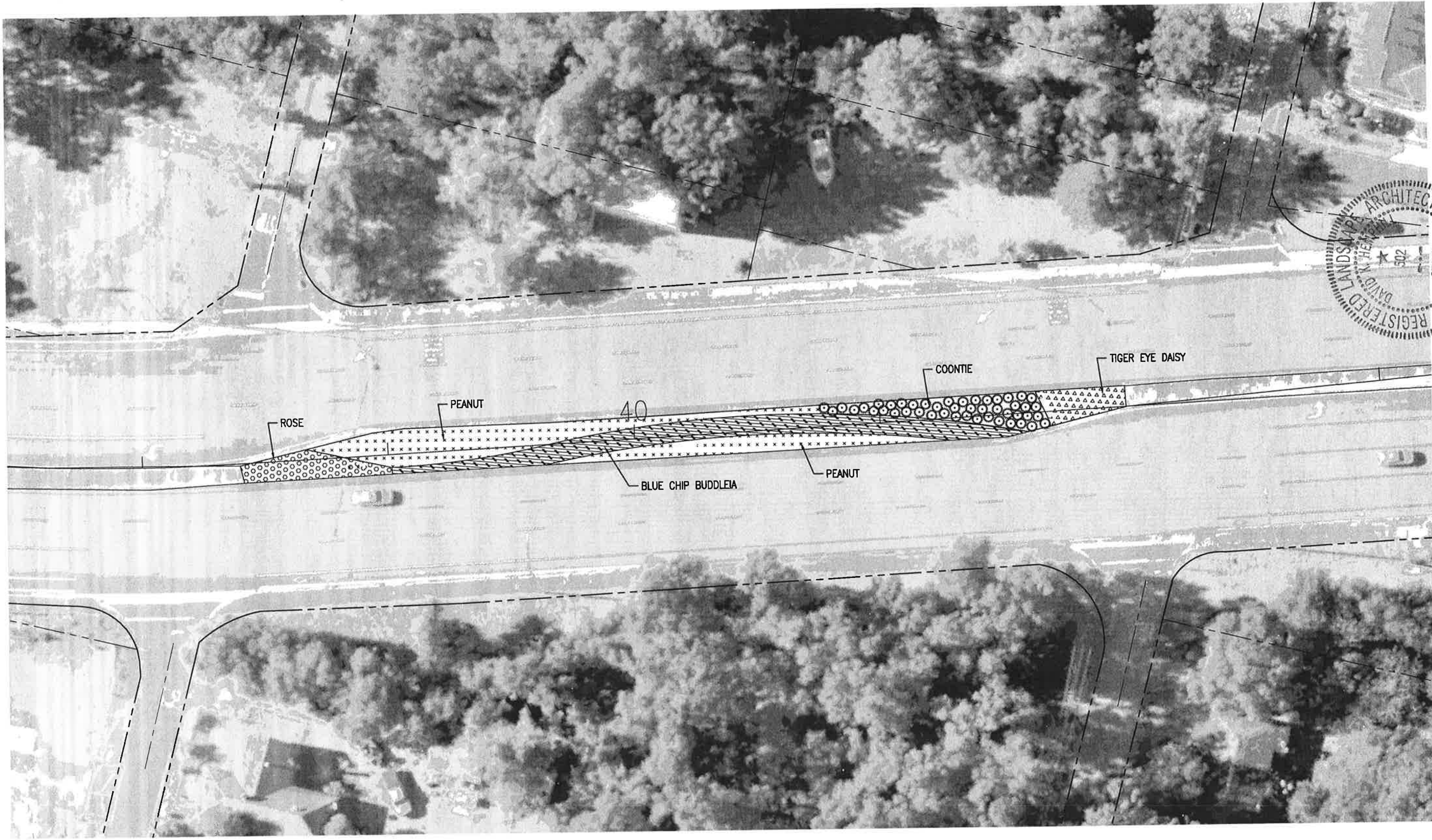
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|---|------------|-------|-------------------------|
| 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
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MEDIAN 1, 2 & 3
 LANDSCAPE PLAN

L-104

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

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



BASKERVILLE-DONOVAN, INC.
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**BARRANCAS AVENUE
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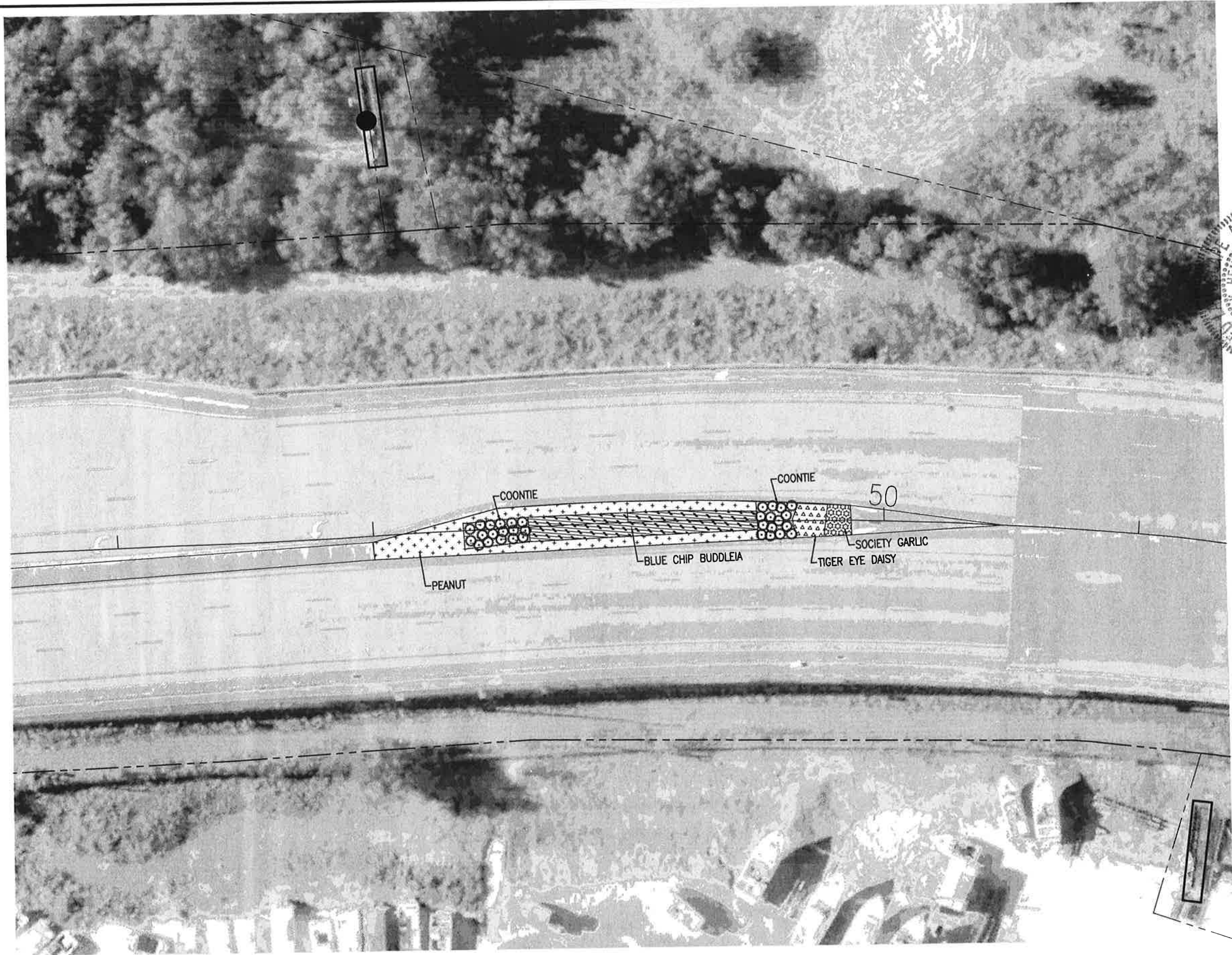
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|--------------|------------|------------|-------|---|
| 258103.01 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
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| DRAWN BY: | THO | | | |
| CHK'D BY: | DKH | | | |
| PROJ. MGR: | DKH | | | |
| 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**

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| CHKD BY: | DKH | | | |
| PROJ. MGR: | DKH | | | |
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**MEDIAN 5
 LANDSCAPE PLAN**

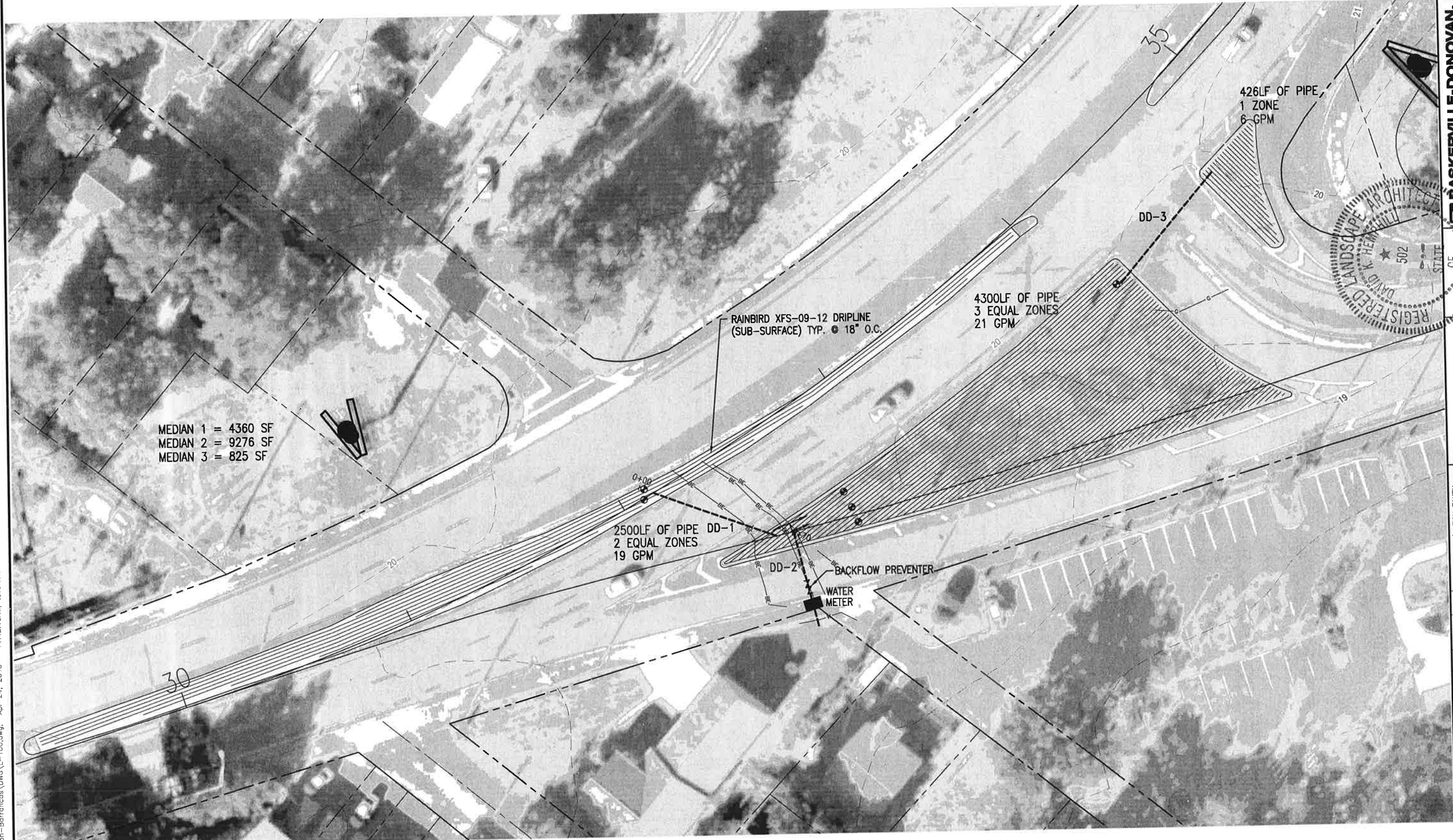
L-106

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

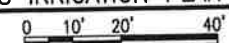
8.24.18

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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'



426LF OF PIPE
 1 ZONE
 6 GPM

4300LF OF PIPE
 3 EQUAL ZONES
 21 GPM

2500LF OF PIPE DD-1
 2 EQUAL ZONES
 19 GPM

RAINBIRD XFS-09-12 DRIPLINE
 (SUB-SURFACE) TYP. @ 18" O.C.

BACKFLOW PREVENTER

WATER METER

DD-3

DD-2



BASKERVILLE-DONOVAN, INC.
 innovative infrastructure solutions
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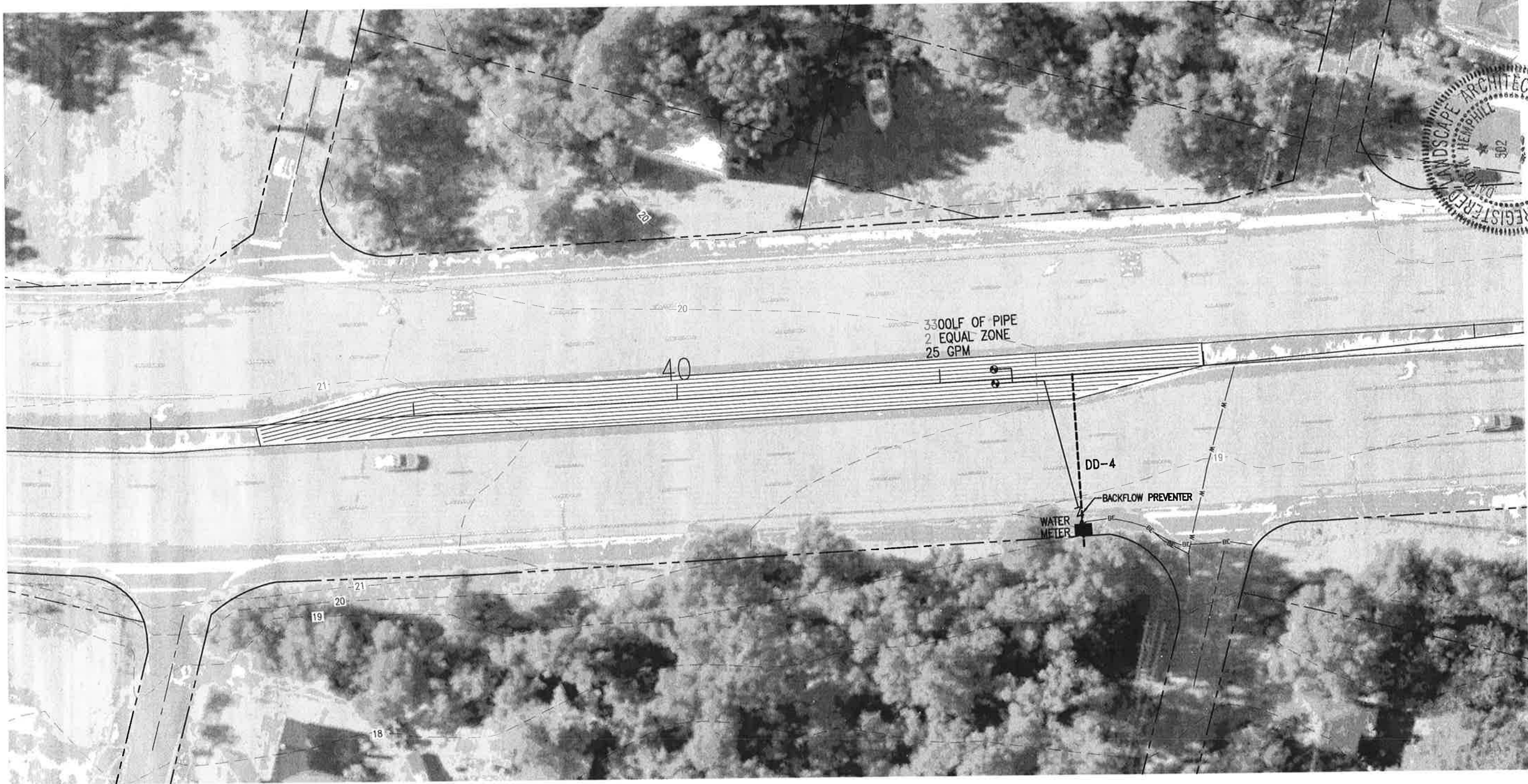
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|--------------|-----|------------|-------|---|
| 258103.01 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
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| DRAWN BY: | | | THO | |
| CHECKED BY: | | | DKH | |
| PROJ. MGR: | | | DKH | |
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**MEDIAN 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.
Innovative Infrastructure Solutions
448 W MAIN ST., PENSACOLA, FL 32502 (850)438-6661
ENGINEERING BUSINESS: EB-0000340
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REGISTERED LANDSCAPE ARCHITECT
DAVID K. HEMPHILL
FL. Reg. Landscape Architect #502

**BARRANCAS AVENUE
BEAUTIFICATION**

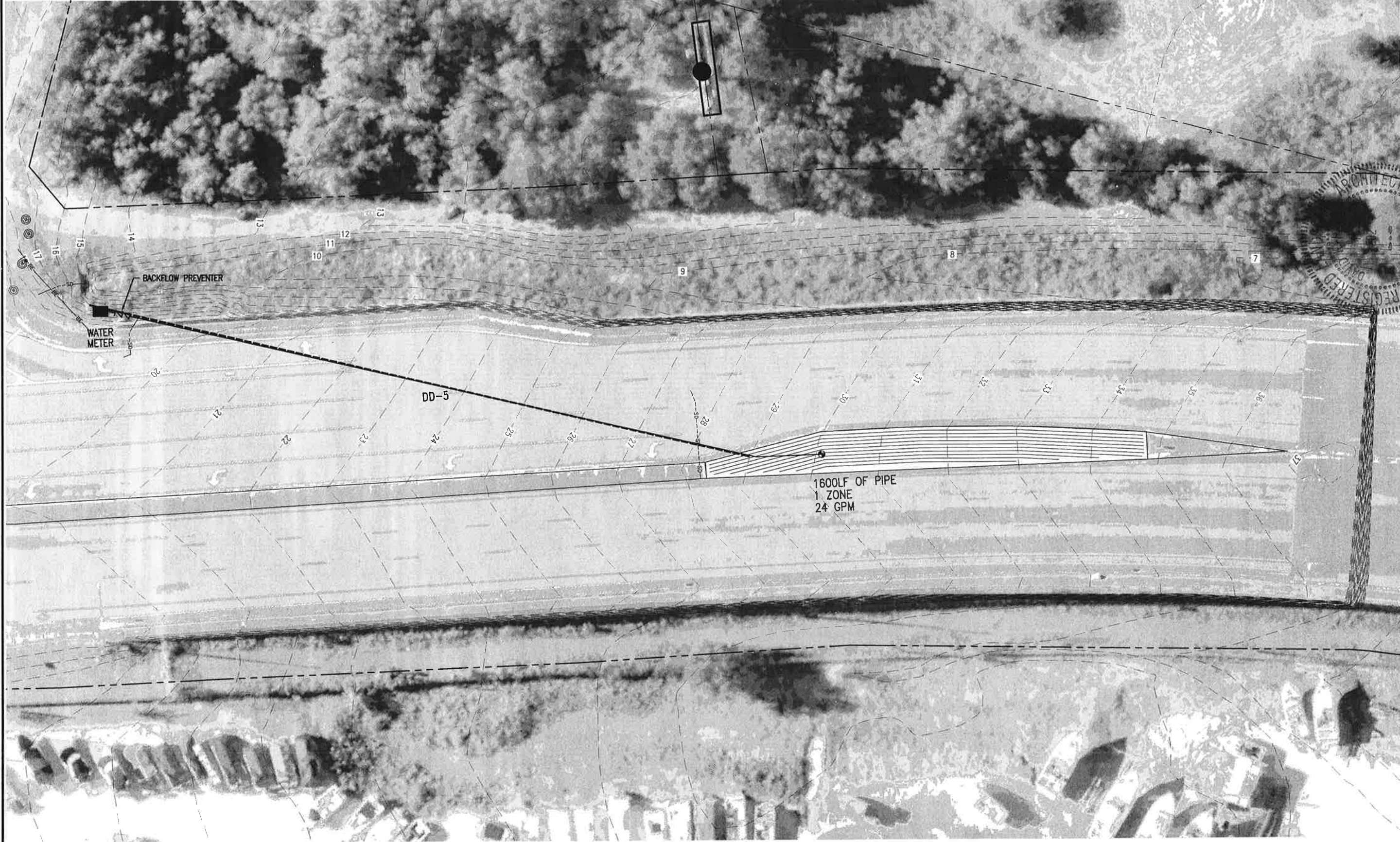
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|--------------|------------|------------|-------|---------------------------------------|
| 258103.01 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
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| DRAWN BY: | THO | | | |
| CHK'D BY: | DKH | | | |
| 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
 SCALE: 1" = 20' 0 10' 20' 40'



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OF FLORIDA
 REGISTERED PROFESSIONAL ENGINEER
 No. 10000
 DAVID K. HARRELL
 P.E.
 FL Reg. Landscape Architect 1502

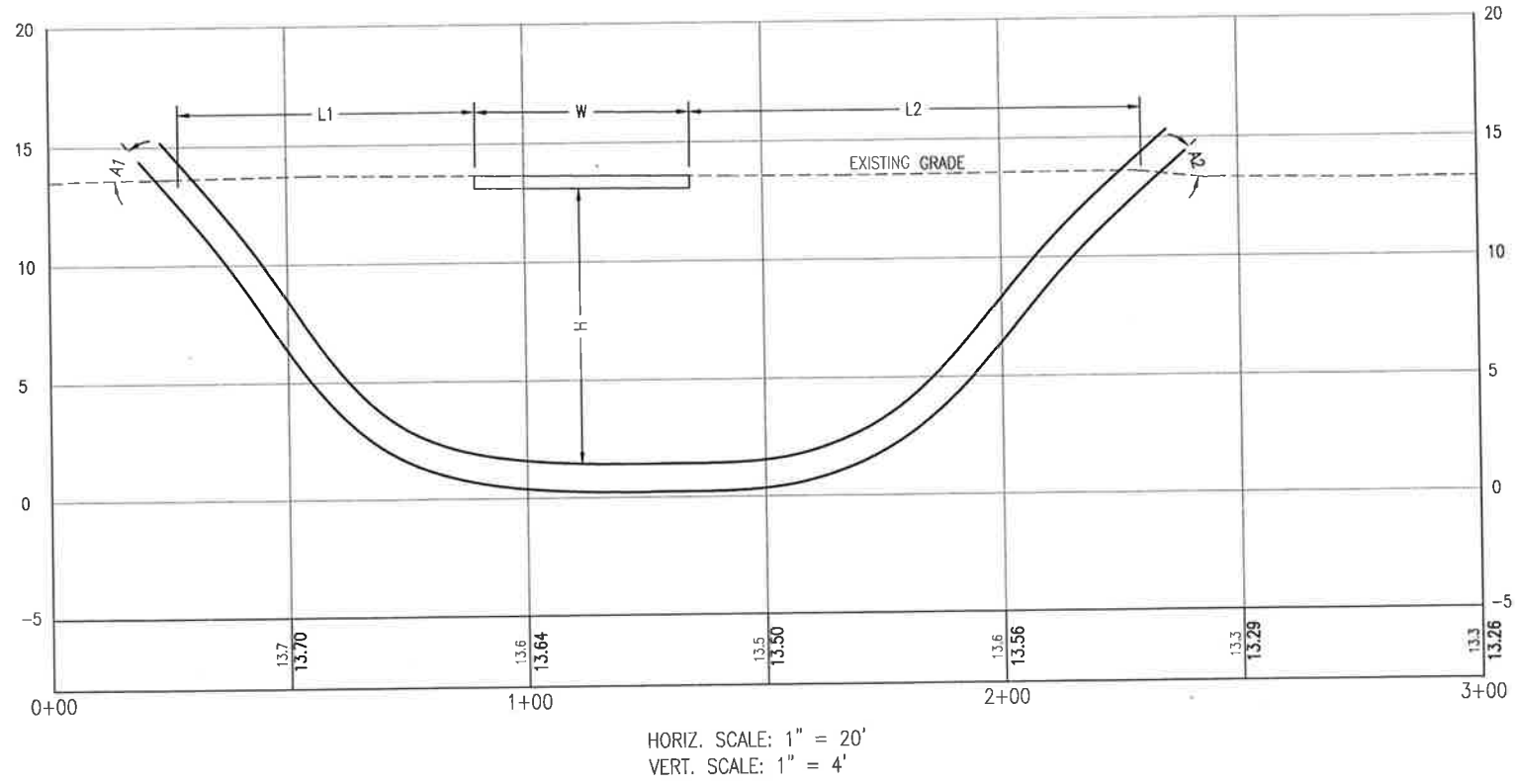
**BARRANCAS AVENUE
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| PROJECT NO. | NO. | DATE | APPR. | REVISION/ACTION TAKEN |
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| 258103.01 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
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| DRAWN BY: | THO | | | |
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| PROJ. MGR: | DKH | | | |
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**MEDIAN 5
 IRRIGATION PLAN**

L-109

5.24.18

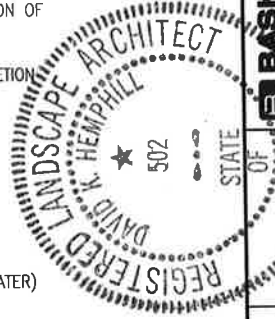


NOTES:

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')



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

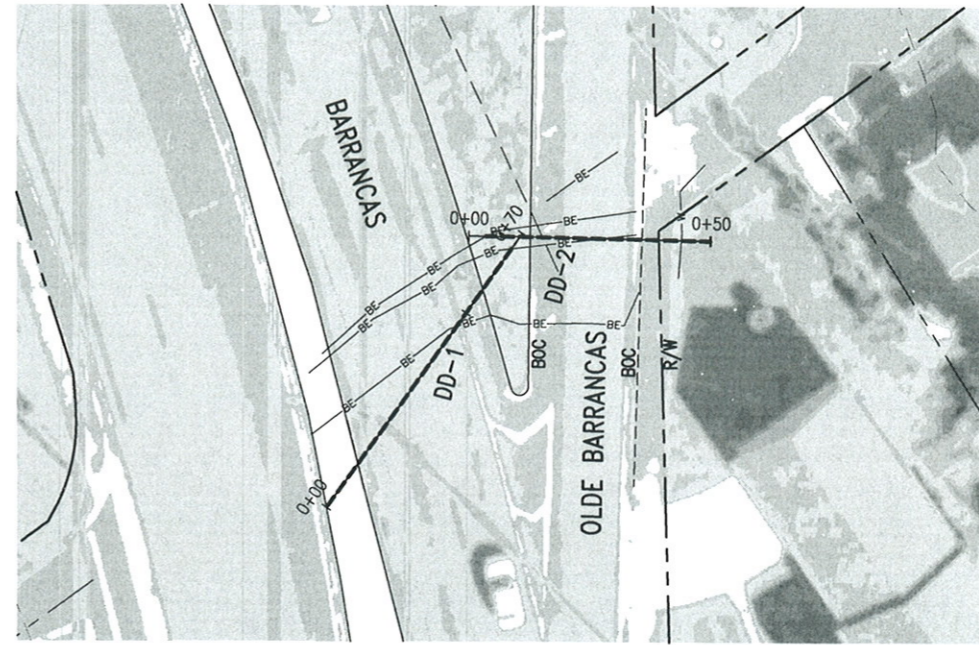
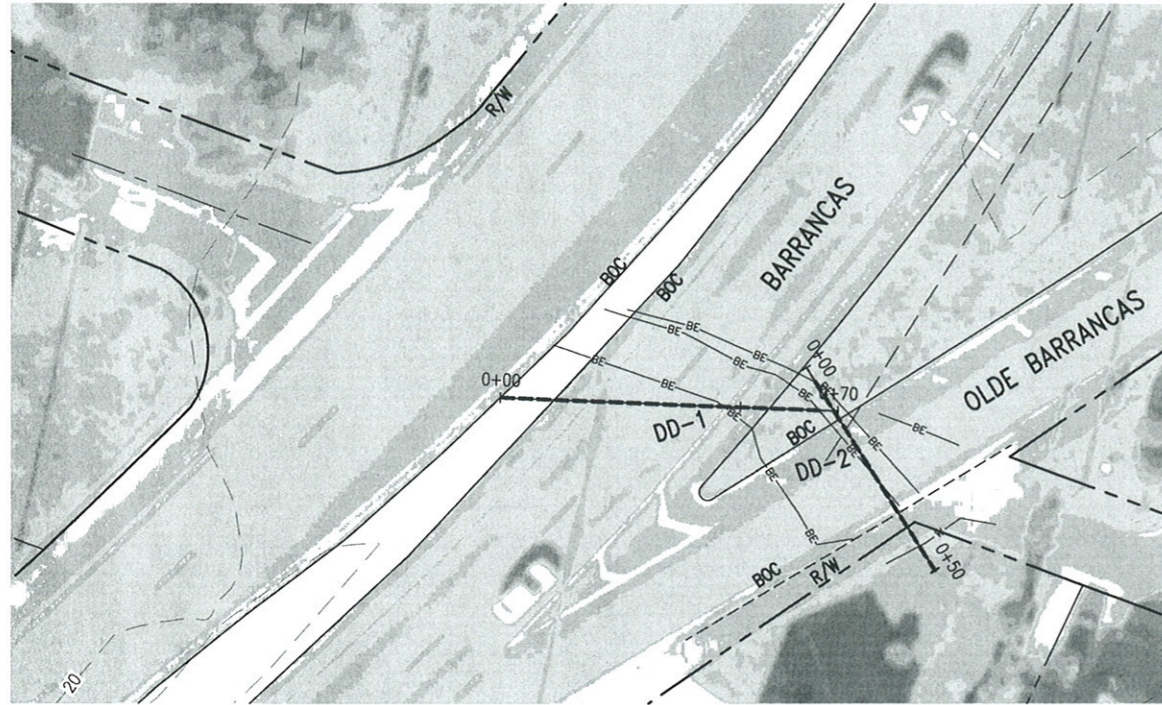
**DIRECTIONAL DRILL
SCHEDULE**

L-110

| 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 | |

6.24.18

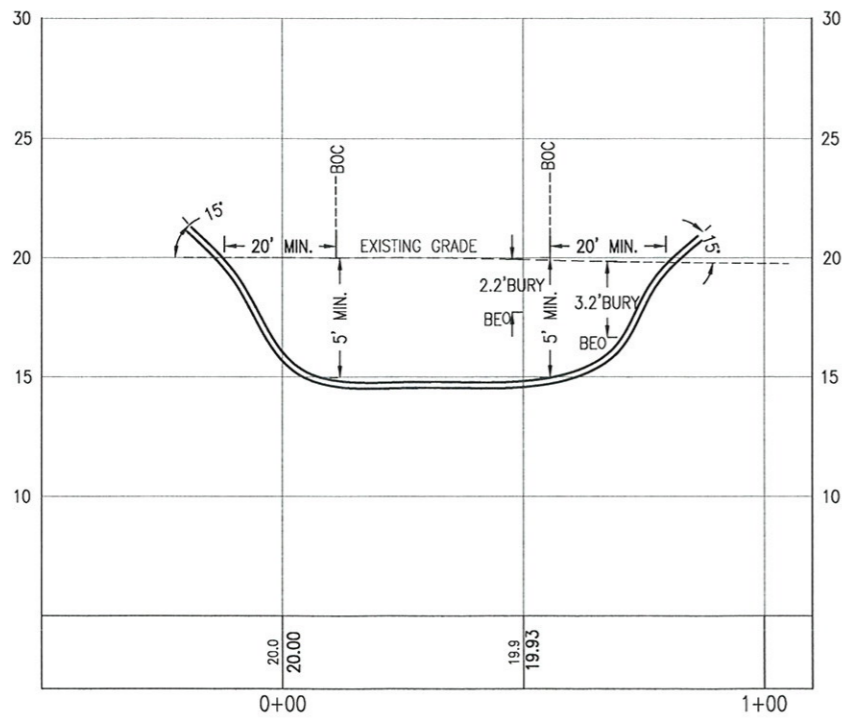
K:\258\258103.01 Beaufication-Barrancas\DWG\1-100.dwg, Jun 08, 2018 - 2:47:37PM, toverton



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

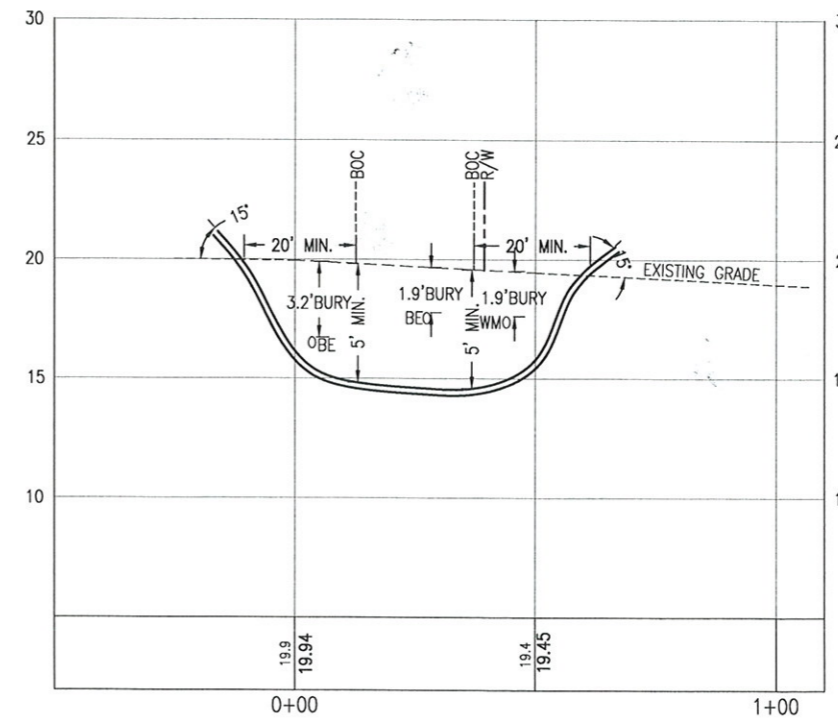
NOTE:
6" BACK REAMER REQUIRED FOR 3" PIPE.

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



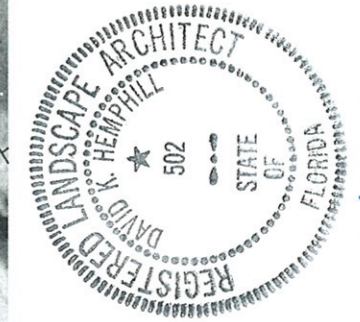
DD1

| 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

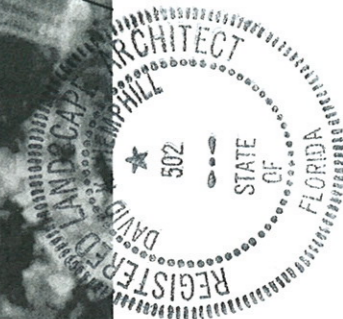
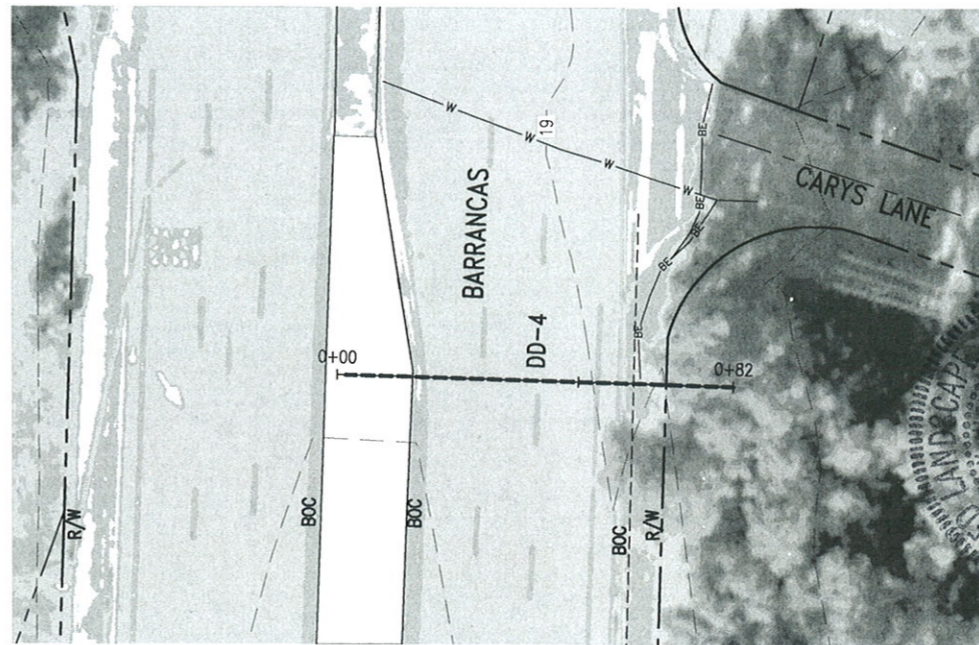
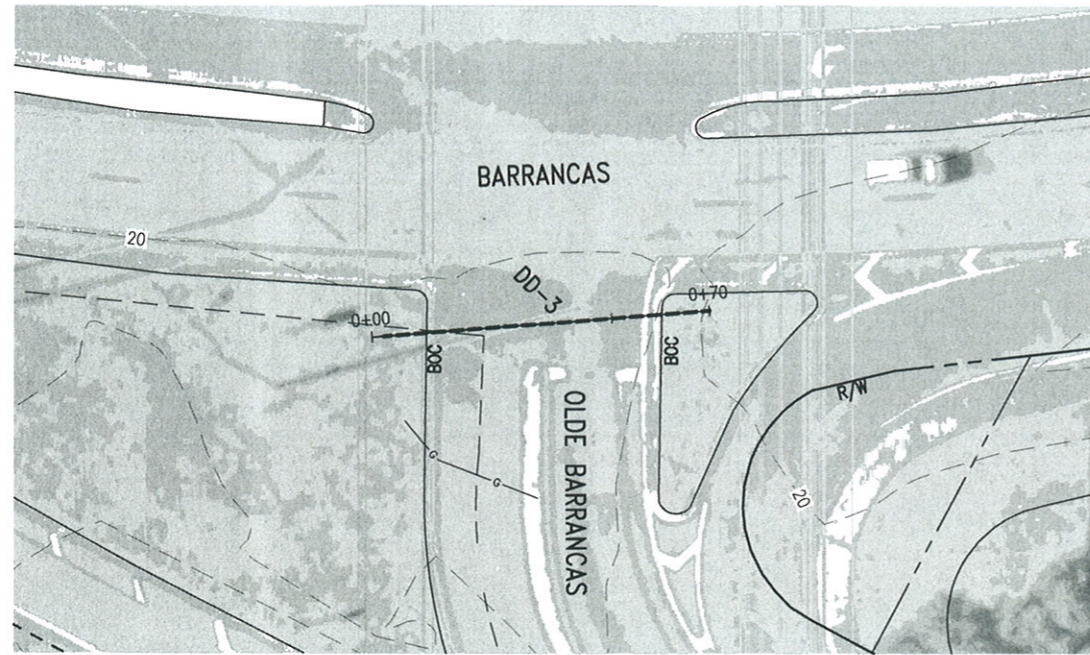
| PROJECT NO: | DESIGNED BY: | DRAWN BY: | CHKD BY: | PROJ. MGR: | DATE: | NO. | DATE | APPR. | REVISION/ACTION TAKEN |
|-------------|--------------|-----------|----------|------------|------------|--|------------|-------|-------------------------|
| 258103.01 | DKH | THO | DKH | DKH | APRIL 2018 | 1 | APRIL 2018 | DKH | RELEASED FOR PERMITTING |
| | | | | | | 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
Pensacola - Panama City Beach - Melbourne - Tallahassee - Mobile
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David K. Hemphill
6-15-18
DAVID K. HEMPHILL
502
REGISTERED LANDSCAPE ARCHITECT
STATE OF FLORIDA
Architect #502

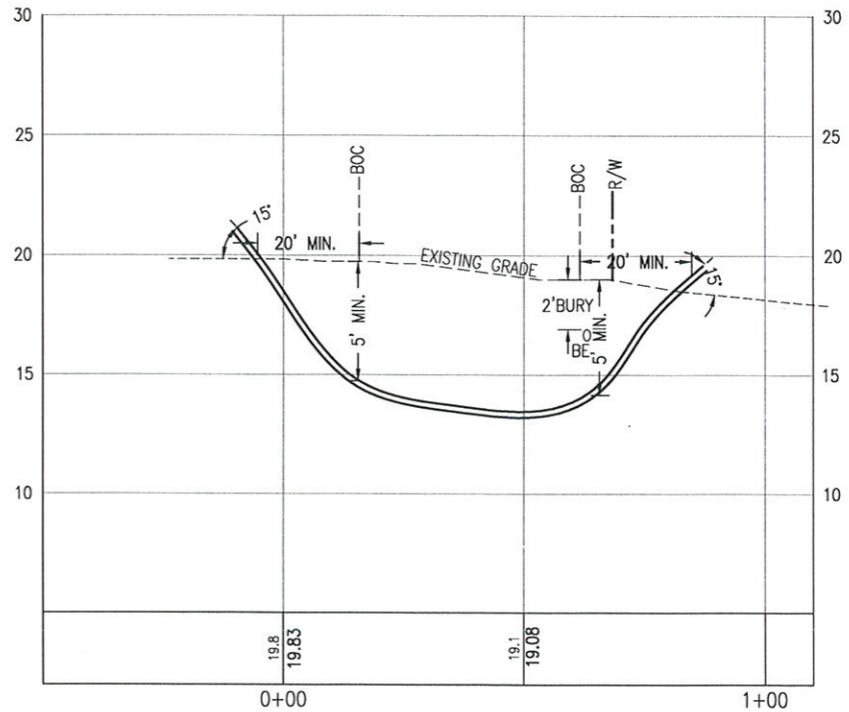
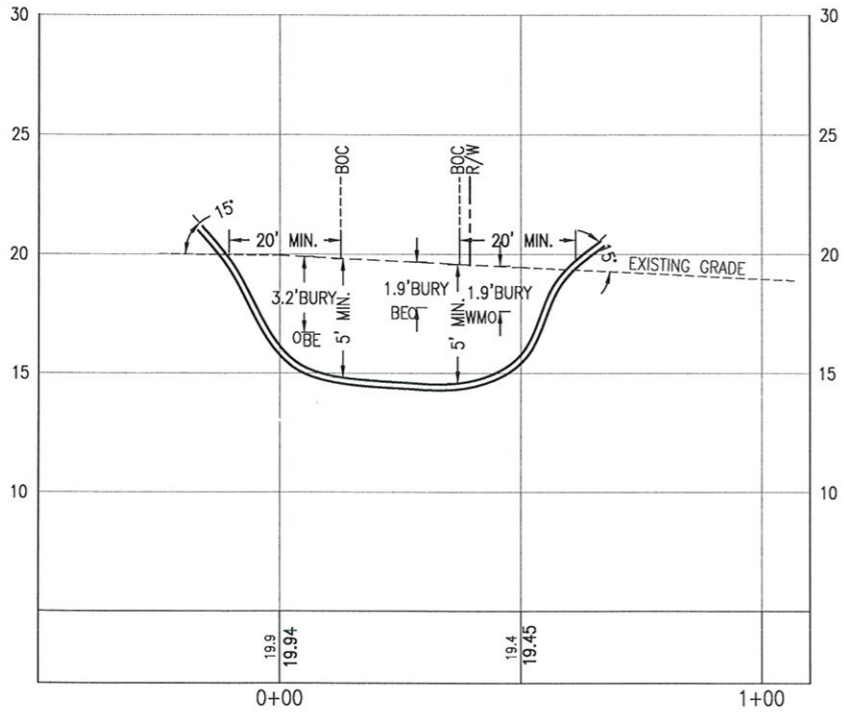


HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

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

K:\258\258103.01 Beautification-Barrancas\DWG\L-100.dwg, Jun 08, 2018 - 2:49:22PM, toverton

BASKERVILLE-DONOVAN, INC.
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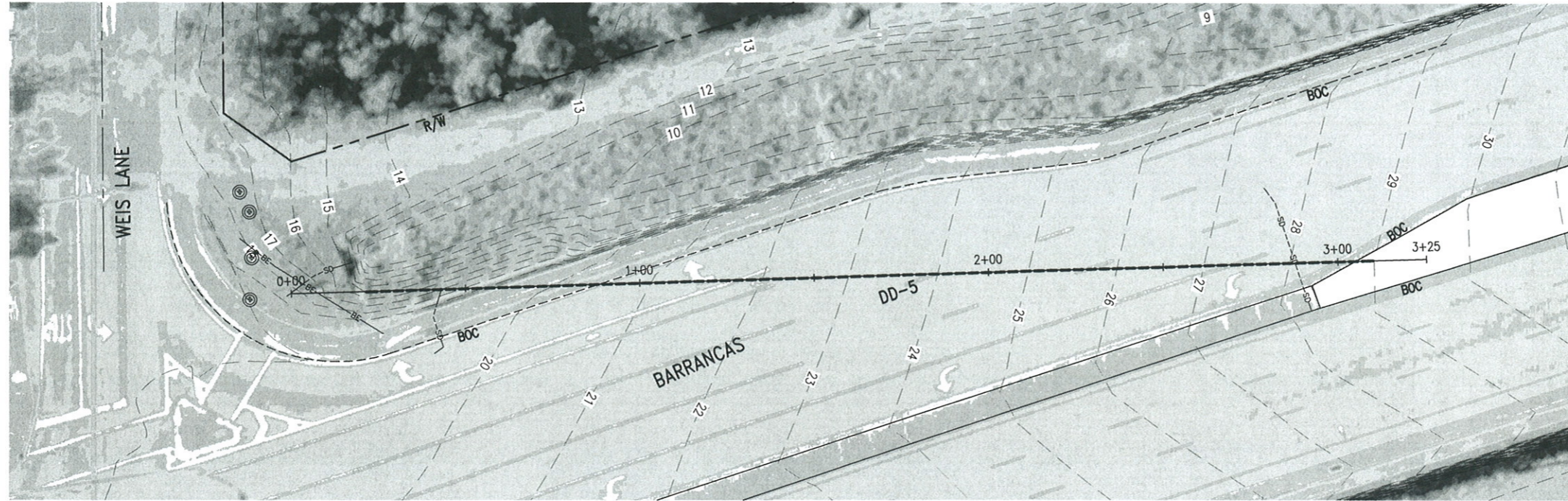
David K. Hemphill
6-15-18
DAVID K. HEMPHILL
FL. Reg. Landscape
Architect #502

BARRANCAS AVENUE
BEAUTIFICATION

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

DIRECTIONAL DRILL
'DD3' AND 'DD4'
PLAN AND PROFILE

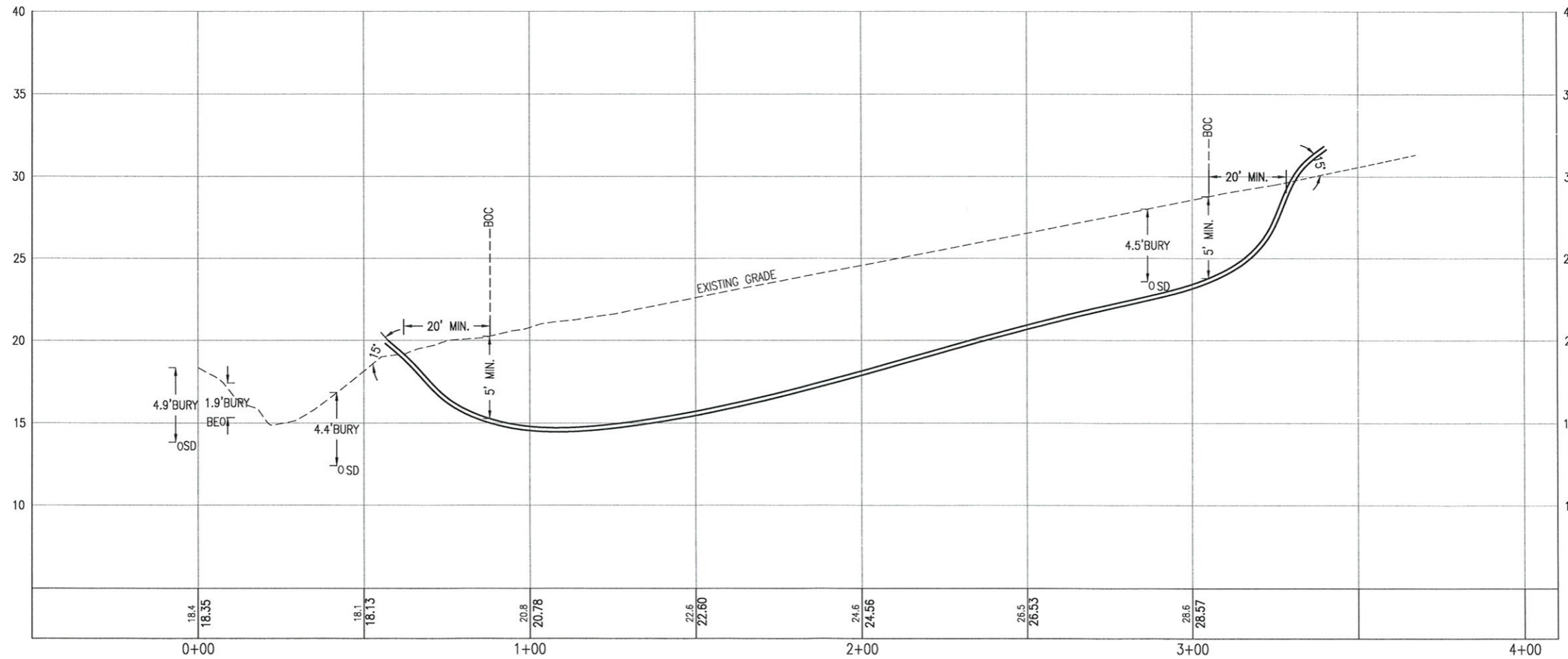
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HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

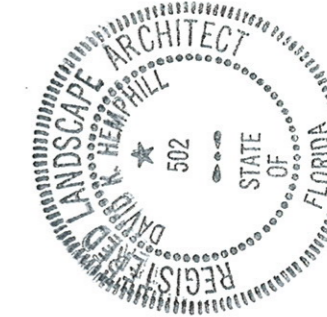
NOTE:
6" BACK REAMER REQUIRED FOR 3" PIPE.

| LEGEND | |
|--------|-----------------|
| BE | BURIED ELECTRIC |
| WM | WATER MAIN |
| SD | STORM DRAIN |



DD5

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



David Hemphill
6/15/18

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 |

DIRECTIONAL DRILL
'DD5'
PLAN AND PROFILE

L-113

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions
481 W. MAIN ST. PENSACOLA, FL 32502 (850) 438-9881
ENGINEERING BUSINESS: EB-0000340
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PLANTING SCHEDULE

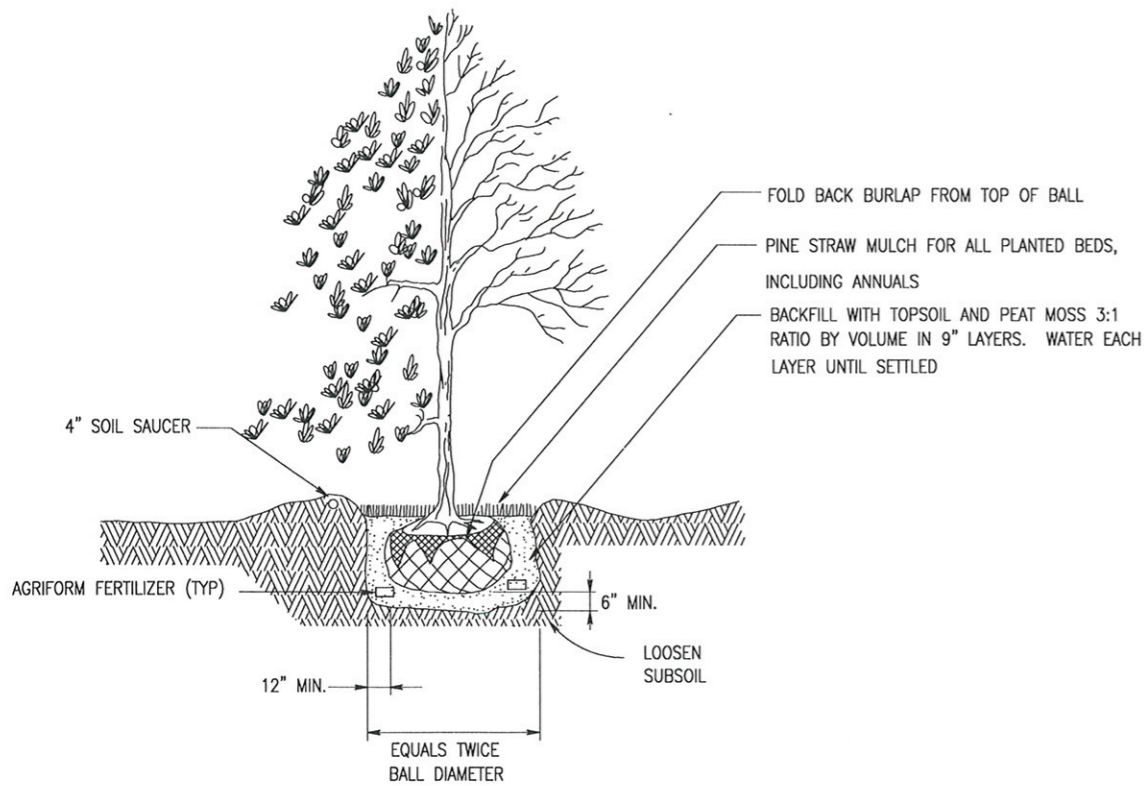
| QUANTITY MEDIAN 1 | QUANTITY MEDIAN 2 | QUANTITY MEDIAN 3 | QUANTITY MEDIAN 4 | QUANTITY MEDIAN 5 | SYMBOL | COMMON NAME | BOTANICAL NAME | HEIGHT | ROOTS | COMMENTS |
|----------------------|----------------------|----------------------|----------------------|----------------------|--------|----------------------|-----------------------------------|---------|--------|-------------------------------|
| 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

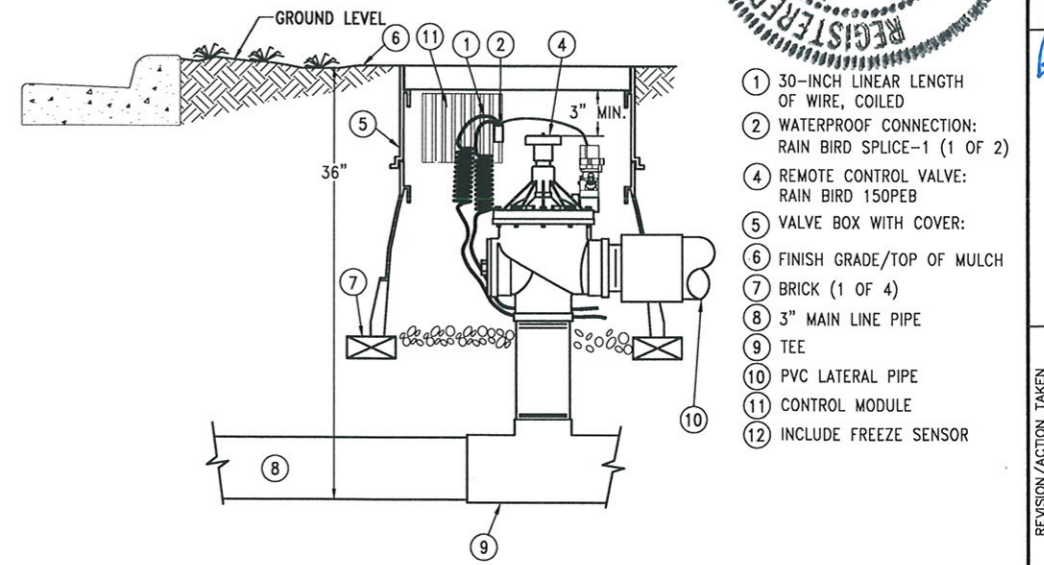
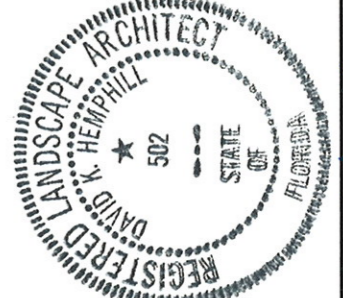
ALL PLANT MATERIAL TO BE GRADED 'FLORIDA FANCY'
 ALL SPACING CALCULATED AS 'TRIANGULAR'



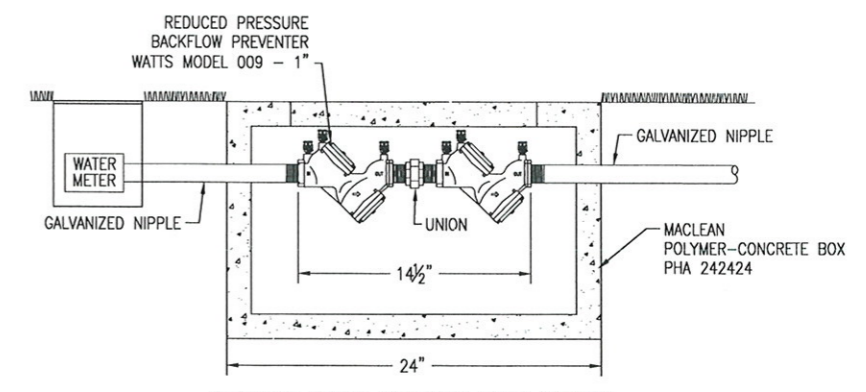
A4 TREE & SHRUB PLANTING DETAIL
 SCALE: NOT TO SCALE

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 | |



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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David K. Hemphill
 6-15-18
 Registered Landscape Architect
 FL Reg. Landscape Architect #502

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

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

LANDSCAPE
 DETAILS

PROJECT NO: 258103.01
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LANDSCAPE
 DETAILS

L-900