

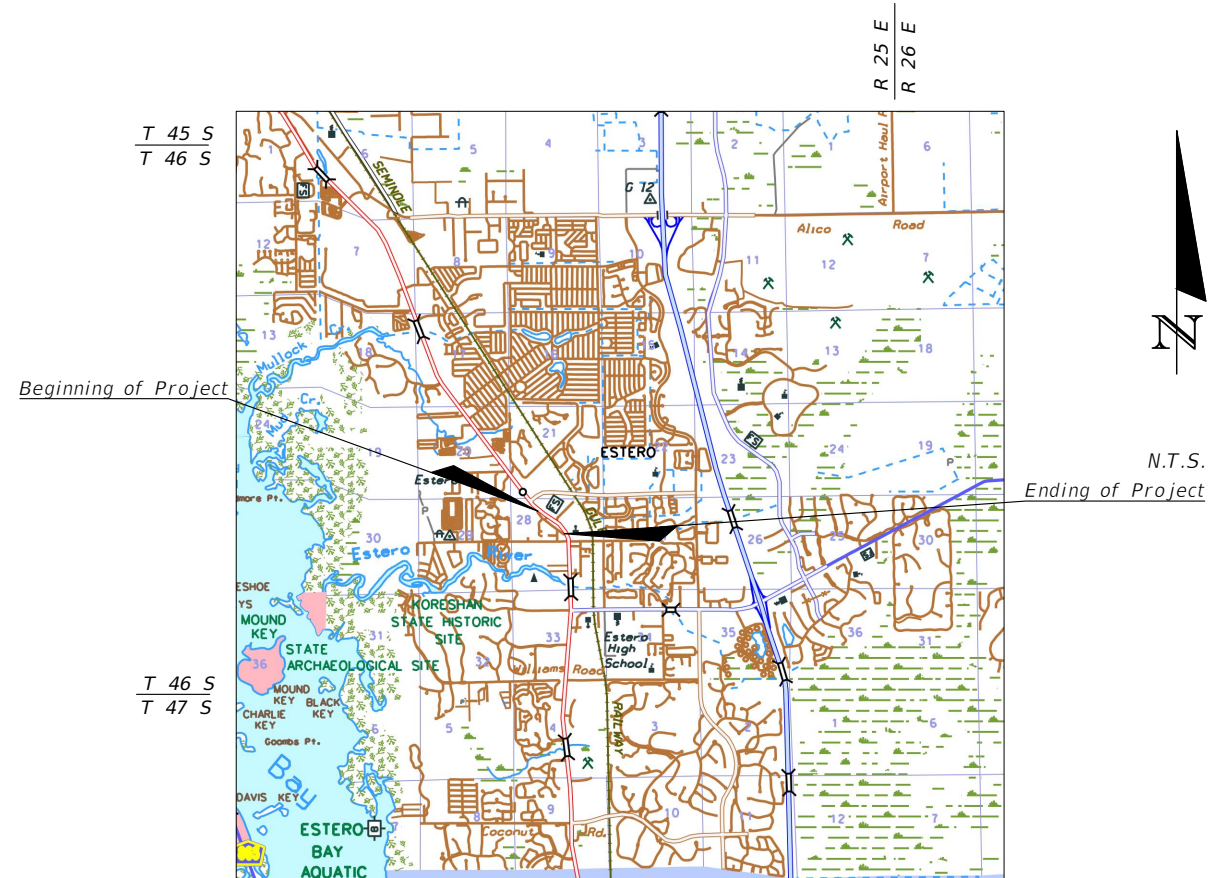
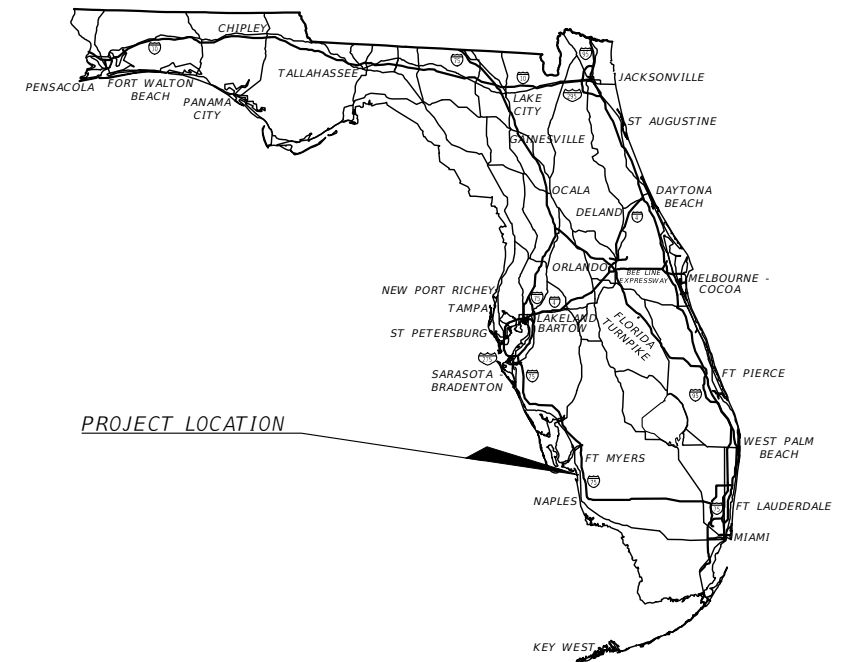
VILLAGE OF ESTERO

CONTRACT PLANS

TRAILSIDE DRIVE AND POINCIANA AVENUE RESURFACING/REBUILD PROJECT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
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4	TYPICAL DETAILS
5	PROJECT LAYOUT AND CONTROL POINTS
6	GENERAL NOTES
7-9	PLAN SHEETS
10-13	CROSS SECTIONS
14-15	ENDWALL DETAIL



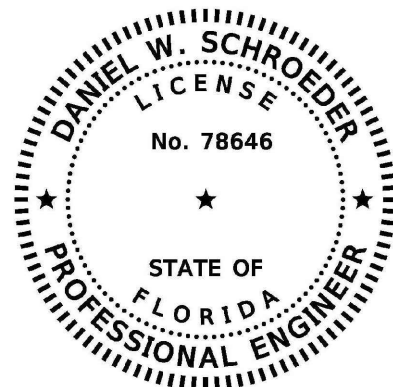
GOVERNING DESIGN STANDARD PLANS:
MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION
AND MAINTENANCE FOR STREETS AND HIGHWAYS ("FLORIDA
GREENBOOK"), 2016

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2019-20 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.shtm>

APPLICABLE IRS: IR536-001-01, IR521-001-01

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, JULY, 2018 STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE
FOLLOWING WEBSITE:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



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SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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AND THE SIGNATURE MUST BE VERIFIED
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2161 FOWLER ST., STE. 100
FORT MYERS, FL 33901
CERTIFICATE OF AUTHORIZATION NO.: 3114
DANIEL W. SCHROEDER, P.E. NO. 78646

ROADWAY PLANS
ENGINEER OF RECORD:

DANIEL SCHROEDER
P.E. NO.: 78646
AIM ENGINEERING & SURVEYING
2161 FOWLER ST
FORT MYERS, FL, 33901

CERTIFICATE OF AUTHORIZATION NO.: 3114

PROJECT MANAGER:
DAVID WILLEMS, PE

FISCAL YEAR	SHEET NO.
2020	1

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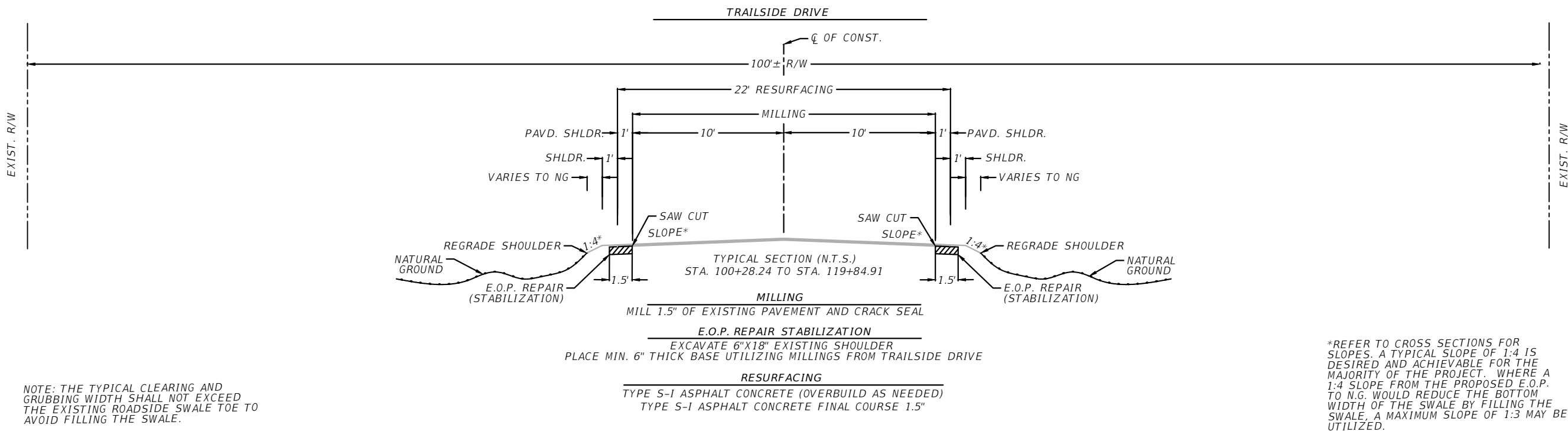
SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY
101-1	Mobilization / Surveying / Pre-Construction Video	LS	1
102-1	Maintenance of Traffic	LS	1
104-10-3	Sediment Barrier (Silt Fence) (Including N.P.D.E.S. Permit, Plan & Program)	LF	160
110-1-1	Clearing and Grubbing (Including Endwall Removal)	LS	1
110-4-10	Removal of Existing Concrete (Concrete Driveways)	SY	175
110-7-1	Mailbox, Furnish and Install (Single) (Relocate Existing Where Possible)	EA	26
120-6	Earthwork, Embankment (Shoulder/Swale Regrading)	CY	125
285-709 (1)	E.O.P. Repair (Trailside) (18" wide x 6" thick Millings Base, Includes Excavation)	SY	652
285-709 (2)	Type S-1 AC Surface Course, 6" (Poinciana) (Asphalt Base Course)	TN	515
285-709 (3)	Type S-1 AC Surface Course, 6" (Driveway Base for Dirt/Shell Driveway Constr.)	TN	75
300-1	Roadway Preparation for Restoration (Crack Sealing Preparation)	LS	1
305-1	Bituminous Crack and Joint Seal (Trailside)	GAL	300
327-70-6 (1)	Milling Exist. Asph. Pavt. 1.5" (Trailside)	SY	4602
327-70-6 (2)	Pavement and Base Removal (Poinciana)	SY	1412
R-1	Type S-1 AC Surface Course 1.5" (Includes Driveway Base & +/- 10 TN of Overbuild)	TN	600
400-1-2	Endwalls, 15", Concrete Class I	CY	2.46
430-174-115	Pipe Culvert, 15", Reinforced Concrete Pipe, SD	LF	44
522-2	Concrete Driveway, 6" (Remove and Replace)	SY	175
570-1-2	Performance Turf (Average Width of 5-feet from EOP)	SY	2900
700-1-40	Single Post Sign, Install	AS	4
705-10-2	Object Marker, Type 2 (at Endwalls)	EA	4
706-3	Retro-Reflective Pavement Markers	EA	93
710-11-101	Paint, Std., White, Solid 6"	NM	0.97
710-11-125	Paint Pave. Marking, Std. White, Solid 24"	LF	30
710-11-231	Paint, Std., Yellow Skip (10-30)	GM	0.49
711-11-101	Thermo, Std., White, Solid 6"	NM	0.97
711-11-125	Thermo, Std. White, Solid 24"	LF	30
711-11-231	Thermo, Std., Yellow, Skip, 6" (10-30)	GM	0.49

PAY ITEM NOTES:

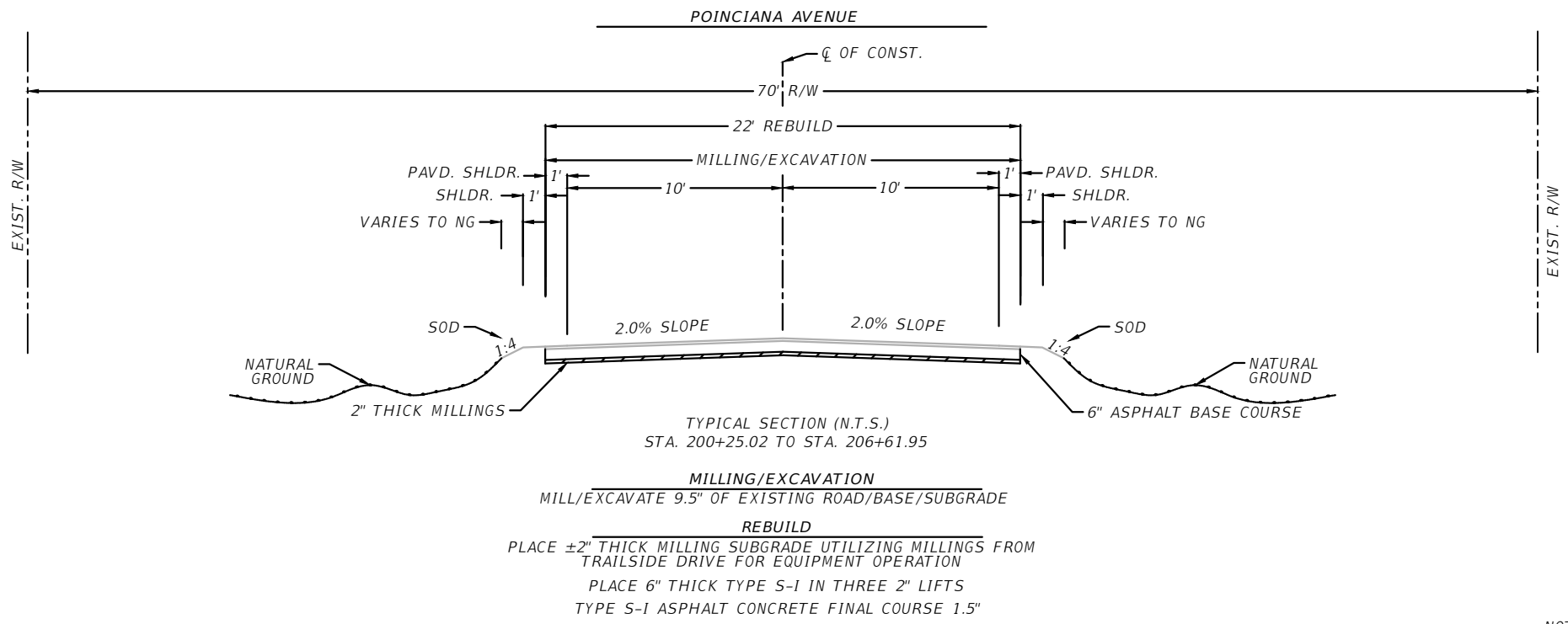
- 570-1-2 SOD QUANTITY IS ASSUMED TO BE 5-FOOT OFFSET AVERAGE WIDTH FROM PROPOSED E.O.P. FOR BOTH SIDES OF ROADWAYS. ALL DISTURBED AND/OR RE-GRADED AREAS SHALL BE SODDED.
- 110-7-1 RELOCATE EXISTING MAILBOXES WITHOUT DAMAGING WHERE POSSIBLE; OTHERWISE, INSTALL NEW MAILBOX.

4	.	.	 AIM Engineering & Surveying, Inc. CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT 2161 FOWLER ST., STE. 100 FORT MYERS, FL 33901 * PHONE: 239-332-4569 EMAIL: ENGINEERING@AIMENGR.COM * CERTIFICATE OF AUTHORIZATION No. 3114	PUBLIC WORKS DEPARTMENT VILLAGE OF ESTERO 9401 CORKSCREW PALMS CIR. ESTERO FL., 33928	DATE: OCTOBER, 2019	TRAILSIDE DRIVE AND POINCIANA AVENUE RESURFACING/REBUILD PROJECT SUMMARY OF PAY ITEMS	PROJECT NO. 19-0872
3	.	DRAWN BY: JW			DANIEL SCHROEDER PROFESSIONAL ENGINEER P.E. No. 78646		SHEET NO.:
2	.	CHECKED BY: DS					2
1	.						
NO	DATE	DESCRIPTION					



NOTE: THE TYPICAL CLEARING AND GRUBBING WIDTH SHALL NOT EXCEED THE EXISTING ROADSIDE SWALE TOE TO AVOID FILLING THE SWALE.

*REFER TO CROSS SECTIONS FOR SLOPES. A TYPICAL SLOPE OF 1:4 IS DESIRED AND ACHIEVABLE FOR THE MAJORITY OF THE PROJECT. WHERE A 1:4 SLOPE FROM THE PROPOSED E.O.P. TO N.G. WOULD REDUCE THE BOTTOM WIDTH OF THE SWALE, A MAXIMUM SLOPE OF 1:3 MAY BE UTILIZED.



NOTE: REFER TO CROSS SECTIONS FOR PROPOSED PROFILE CENTERLINE GRADES

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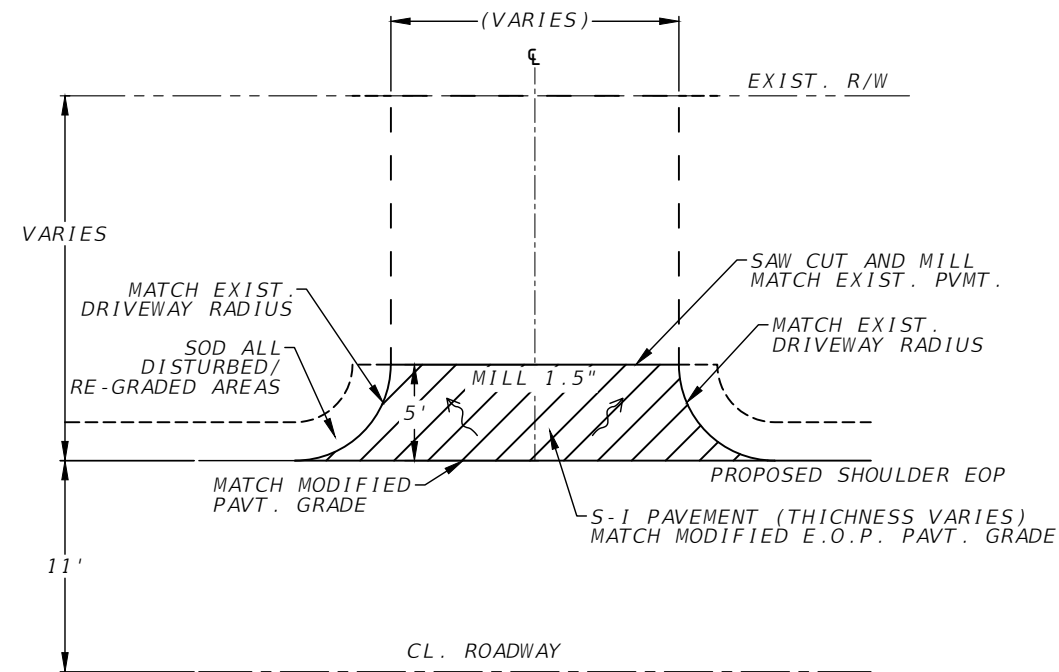
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 ESTERO FL., 33928

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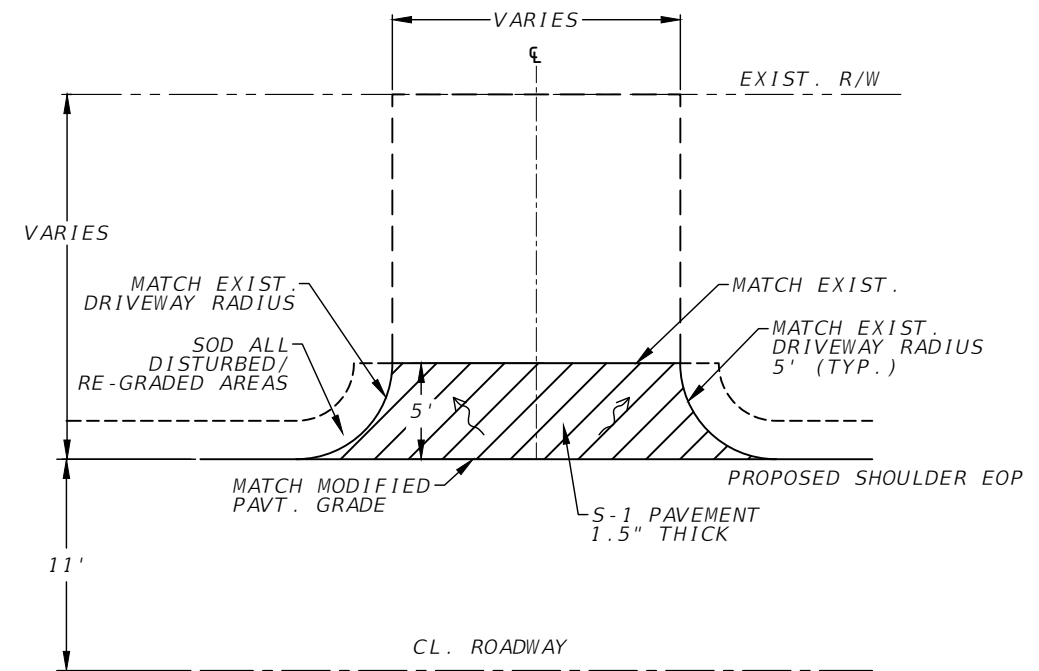
TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
 TYPICAL SECTIONS

PROJECT NO. 19-0872
SHEET NO.: 3

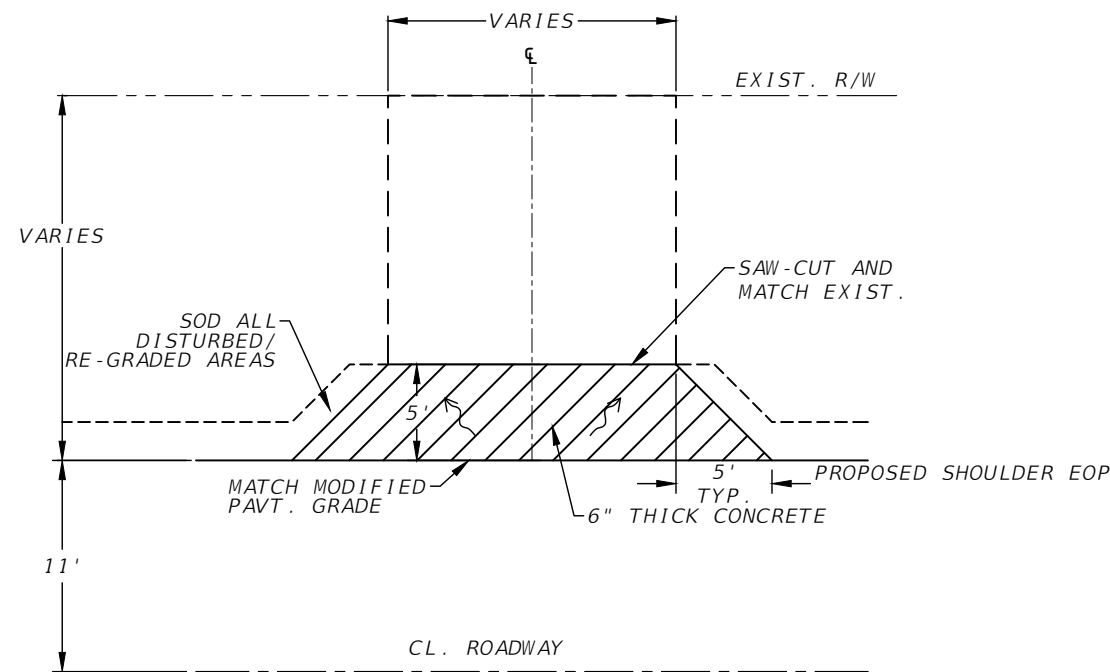
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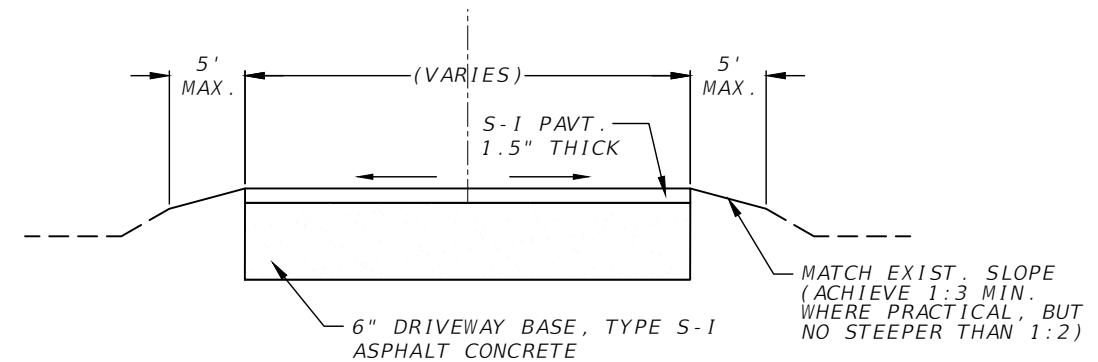
TYPICAL TURN OUT
FOR AC DRIVEWAYS
NTS



TYPICAL TURN OUT
SHELL/DIRT DRIVEWAYS
NTS



TYPICAL TURN OUT
FOR CONCRETE DRIVEWAYS
NTS



TYPICAL TURNOUT CROSS-SECTION
FOR DIRT & SHELL DRIVEWAYS
NTS

NOTE: SLOPE DRIVEWAY TURN OUTS TO PROVIDE POSITIVE DRAINAGE TO AVOID STORMWATER PONDING

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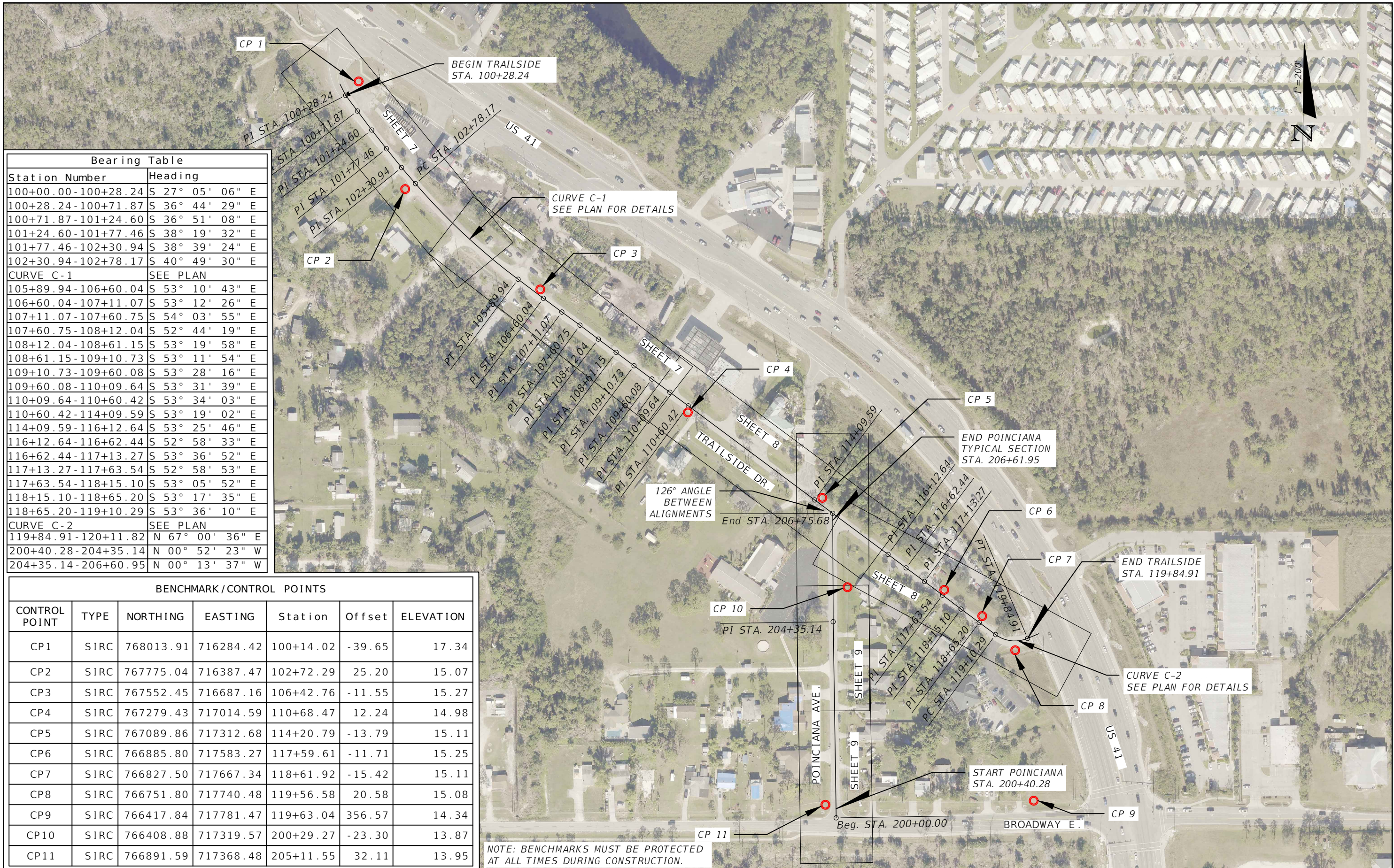
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TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
TYPICAL DETAILS

PROJECT NO.	19-0872
SHEET NO.:	4



Bearing Table	
Station Number	Heading
100+00.00-100+28.24	S 27° 05' 06" E
100+28.24-100+71.87	S 36° 44' 29" E
100+71.87-101+24.60	S 36° 51' 08" E
101+24.60-101+77.46	S 38° 19' 32" E
101+77.46-102+30.94	S 38° 39' 24" E
102+30.94-102+78.17	S 40° 49' 30" E
CURVE C-1	SEE PLAN
105+89.94-106+60.04	S 53° 10' 43" E
106+60.04-107+11.07	S 53° 12' 26" E
107+11.07-107+60.75	S 54° 03' 55" E
107+60.75-108+12.04	S 52° 44' 19" E
108+12.04-108+61.15	S 53° 19' 58" E
108+61.15-109+10.73	S 53° 11' 54" E
109+10.73-109+60.08	S 53° 28' 16" E
109+60.08-110+09.64	S 53° 31' 39" E
110+09.64-110+60.42	S 53° 34' 03" E
110+60.42-114+09.59	S 53° 19' 02" E
114+09.59-116+12.64	S 53° 25' 46" E
116+12.64-116+62.44	S 52° 58' 33" E
116+62.44-117+13.27	S 53° 36' 52" E
117+13.27-117+63.54	S 52° 58' 53" E
117+63.54-118+15.10	S 53° 05' 52" E
118+15.10-118+65.20	S 53° 17' 35" E
118+65.20-119+10.29	S 53° 36' 10" E
CURVE C-2	SEE PLAN
119+84.91-120+11.82	N 67° 00' 36" E
200+40.28-204+35.14	N 00° 52' 23" W
204+35.14-206+60.95	N 00° 13' 37" W

BENCHMARK / CONTROL POINTS						
CONTROL POINT	TYPE	NORTHING	EASTING	Station	Offset	ELEVATION
CP1	SIRC	768013.91	716284.42	100+14.02	-39.65	17.34
CP2	SIRC	767775.04	716387.47	102+72.29	25.20	15.07
CP3	SIRC	767552.45	716687.16	106+42.76	-11.55	15.27
CP4	SIRC	767279.43	717014.59	110+68.47	12.24	14.98
CP5	SIRC	767089.86	717312.68	114+20.79	-13.79	15.11
CP6	SIRC	766885.80	717583.27	117+59.61	-11.71	15.25
CP7	SIRC	766827.50	717667.34	118+61.92	-15.42	15.11
CP8	SIRC	766751.80	717740.48	119+56.58	20.58	15.08
CP9	SIRC	766417.84	717781.47	119+63.04	356.57	14.34
CP10	SIRC	766408.88	717319.57	200+29.27	-23.30	13.87
CP11	SIRC	766891.59	717368.48	205+11.55	32.11	13.95

NOTE: BENCHMARKS MUST BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.

NO	DATE	DESCRIPTION
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 ESTERO FL., 33928

DATE: OCTOBER, 2019
 DRAWN BY: JW
 CHECKED BY: DS
 DANIEL SCHROEDER
 PROFESSIONAL ENGINEER
 P.E. No. 78646

TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
PROJECT LAYOUT AND CONTROL POINTS

PROJECT NO.
19-0872
 SHEET NO.
5

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PROJECT NOTES
=====

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ANY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED.
2. THE ROAD CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE APPROPRIATE ROADWAY AND TRAFFIC DESIGN STANDARDS LISTED ON THE KEY SHEET.
3. COPIES OF THESE PLANS AS DESIGNED BY THE E.O.R. HAVE BEEN RETAINED BY THE E.O.R. . SAID E.O.R. WILL NOT BE RESPONSIBLE FOR ANY SUBSEQUENT CHANGES TO THE REPRODUCIBLE ORIGINAL DOCUMENTS.
4. ROADWAY IS AS SHOWN ON THE PLAN AND CROSS SECTIONS. THE STATIONS AND OFFSETS ARE FROM THE SURVEY BASELINE UNLESS OTHERWISE NOTED ON THE PLANS.
5. THE CONTRACTOR SHALL NOT USE A VIBRATORY ROLLER, AT THE DISCRETION OF THE E.O.R., NEAR ALL CROSS DRAINS DURING RESURFACING ACTIVITIES.
6. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO REMAIN AT THE SAME LOCATION AND WIDTH UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE E.O.R.
7. A STORM WATER POLLUTION PREVENTION PLAN SHALL BE PREPARED BY THE CONTRACTOR, IN ACCORDANCE WITH SECTION 104. THE NOTICE OF INTENT SHALL BE PREPARED FOR THE N.P.D.E.S. STORM WATER PERMIT AND SUBMITTED TO OBTAIN PERMIT COVERAGE.
8. APPROPRIATE TURBIDITY AND EROSION CONTROL FEATURES SHALL BE PLACED AT ALL MODIFIED CROSS DRAINS PER FDOT STANDARDS PRIOR TO CONSTRUCTION.
9. IN THE EVENT OF EXCAVATION OF UNSUITABLE MATERIAL IS REQUIRED, IT MAY BE USED TO FLATTEN SLOPES IN AREAS IN ACCORDANCE WITH FDOT INDEX NO. 120-002.
10. THE CONTRACTOR SHALL PROVIDE BORROW MATERIAL FROM BORROW PITS APPROVED BY THE E.O.R. AND INCORPORATE IT INTO THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF A SIGNED AND SEALED TRAFFIC CONTROL PLAN (TTC) BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
12. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE STAKEOUT OF THE PROJECT, I.E., LINE GRADE, STATION BOARDS, SLOPE STAKE, UTILITY RELOCATIONS OR ANY OTHER STAKEOUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
13. OVERALL CLEAN UP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH VILLAGE STANDARDS OR AS DIRECTED BY THE E.O.R. ANY AND ALL EXPENSE INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE RELATED ITEM.
14. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY, ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE E.O.R. AND PROPERTY OWNER, AT THE CONTRACTOR'S EXPENSE.
15. ANY DAMAGE TO STATE, COUNTY OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE E.O.R.
16. ANY SURVEY MARKER, INCLUDING BUT NOT LIMITED TO SECTION MARKERS, BENCHMARKS, LOT CORNER, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF FLORIDA AND SHOWN ON THE AS-BUILT PLANS AS RESET. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE E.O.R. UPON COMPLETION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXCAVATED MATERIAL, DEBRIS, VEGETATION AND CONCRETE AT A LEGAL DISPOSAL SITE OR BY OTHER MANNER APPROVED BY THE E.O.R. DO NOT DEPOSIT MATERIALS CLEARED FROM SITE ONTO ADJACENT PROPERTY WITHOUT WRITTEN APPROVAL FROM THE E.O.R. AND LANDOWNER. CONTRACTOR IS RESPONSIBLE FOR MATERIALS REMOVED FROM SITE.
18. THE CONTRACTOR SHALL FURNISH THE E.O.R., PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATE FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY AND MULCH MATERIALS ARE FREE OF NOXIOUS WEED, INCLUDING TROPICAL SODA APPLE.
19. ANY DAMAGE BY THE CONTRACTOR TO ANY DRIVE OR TURNOUT DURING THE CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED TO THE SATISFACTION OF THE E.O.R. AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR SHALL NOTIFY ALL REQUIRED UTILITIES AND GOVERNMENT AGENCIES AT LEAST 48 BUSINESS HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION (48 HOURS BEFORE DIGGING CALL TOLL FREE 1-800-432-4770 SUNSHINE ONE CALL)
21. CONSTRUCTION DEWATERING IS NOT ANTICIPATED FOR THE PROJECT AND HAS NOT BEEN AUTHORIZED. IF DEWATERING IS NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A WATER USE PERMIT FROM THE WATER MANAGEMENT DISTRICT.
22. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL OBTAIN A COPY OF AND FOLLOW FLORIDA DEPARTMENT OF HISTORICAL RESOURCES (FDHR) DIRECTIVE FOR CONSTRUCTION WORK AND REPORTING OF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS DISCOVERED DURING GROUND DISTURBING ACTIVITIES FOR THE PROPOSED RESURFACING, INCLUDING REMOVAL OF THE PREVIOUS ROAD SURFACE, INSTALLATION OF SIGNAGE, AND TEMPORARY ACCESS AND STAGING AREAS.
23. CONTRACTOR SHALL PROVIDE A SUPERINTENDENT ON SITE AT ALL TIMES DURING ACTIVE CONSTRUCTION.
24. TEMPORARY DETOURS OF TRAFFIC SHALL BE PERMITTED ONLY UPON PRIOR WRITTEN APPROVAL BY THE VILLAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE EMS, FIRE & SHERIFFS, SCHOOL BOARD OFFICES PRIOR AND DURING ROAD CLOSURE.
25. THE PROPOSED RESTORATION/RESURFACING WIDTH SHALL BE 22 FOOT ROADWAY WIDTH.
26. PIPE EXTENSION RESTORATION SHALL MATCH EXIST. INVERTS AND ALIGNMENTS UNLESS OTHERWISE NOTED ON THE PLANS.
27. CLEAR AND RECOVERY ZONE IS MAINTAINED AT 6 FEET FROM E.O.P. BASED ON EXISTING CONDITION, LOW SPEED ROADWAY, LIMITED NUMBER OF ACCIDENTS REPORTED AND DESIGN CONSTRAINTS.
28. PREPARATION FOR ROADWAY RESTORATION SHALL INCLUDE SWEEPING TO CLEAR ROAD OF DEBRIS OR LOOSE AGGREGATE TO ALLOW FOR PROPER BONDING AT RESURFACING AC LAYERS.
29. EXIST. DRIVEWAY CULVERT DRAINS, IF ANY, ARE TO REMAIN.

UTILITY/AGENCY OWNERS:	COMPANY TELEPHONE NUMBERS
FLORIDA POWER & LIGHT	239-334-7754
LEE COUNTY UTILITIES	239-533-8845
COMCAST CABLE	800-391-3000
CENTURYLINK	877-862-9343
SUMMIT BROADBAND	239-444-0400
FRONTIER	855-223-6283
ESTERO FIRE DISTRICT (STATION 41)	239-390-8000

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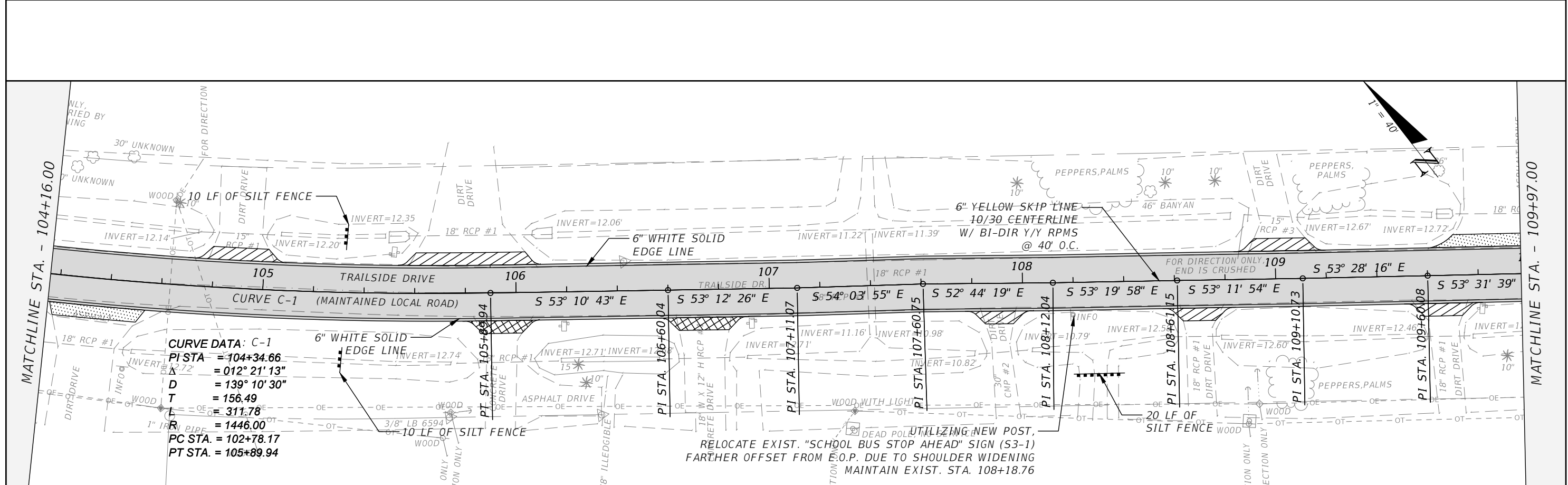
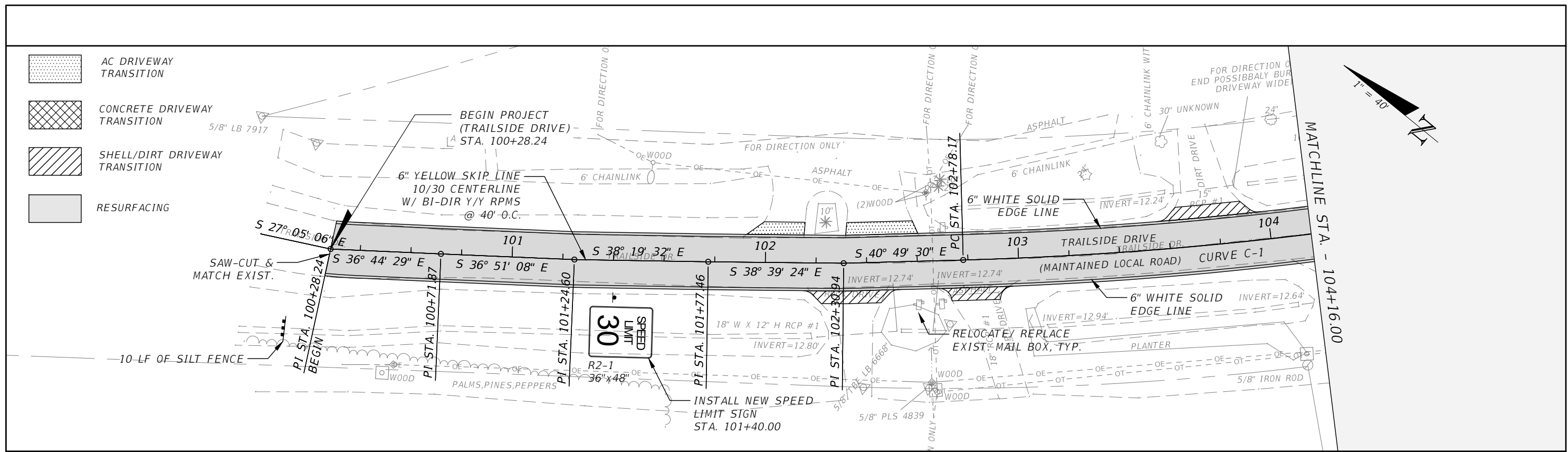
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	DANIEL SCHROEDER PROFESSIONAL ENGINEER P.E. No. 78646

TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
GENERAL NOTES

PROJECT NO.	19-0872
SHEET NO.	6

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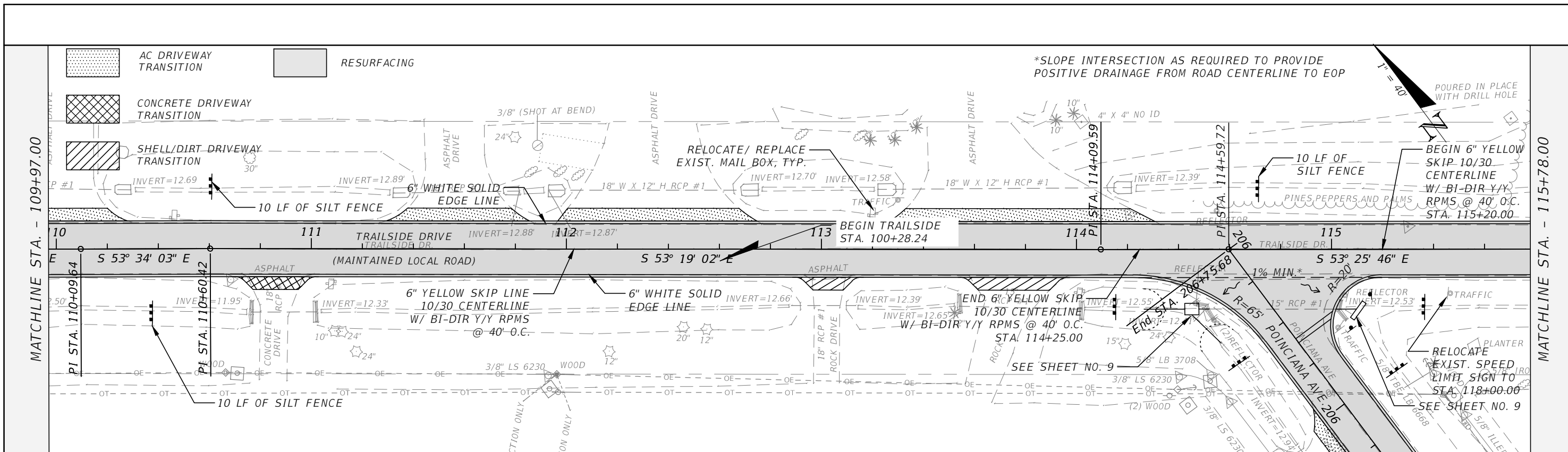
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 P.E. No. 78646

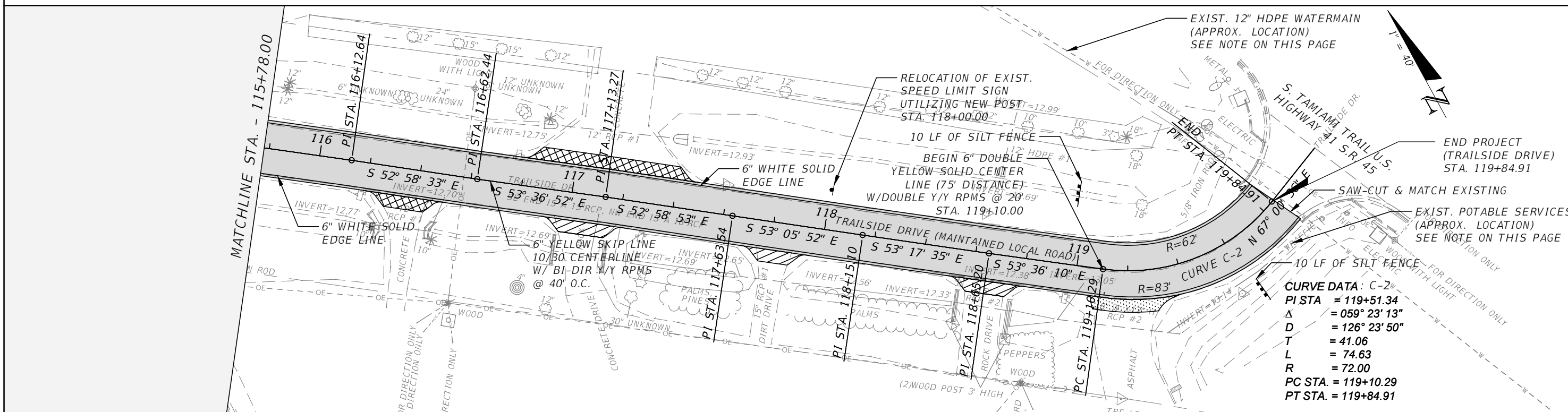
TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
PLAN SHEETS

PROJECT NO. 19-0872
 SHEET NO. 7

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NOTE: THE PROPOSED PROJECT IMPROVEMENTS DO NOT APPEAR TO POSE AN IMPACT TO OR CONFLICT WITH THE EXISTING UTILITY INFRASTRUCTURE IDENTIFIED ON THIS PAGE. DUE TO CLOSE PROXIMITY TO THE PROPOSED RESURFACING ACTIVITIES, EXISTING UTILITY INFRASTRUCTURE IS TO BE PHYSICALLY LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION. CAUTION SHOULD BE EXERCISED DURING CONSTRUCTION TO AVOID ANY POTENTIAL CONFLICTS WITH OR DAMAGE TO THIS INFRASTRUCTURE.



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 EMAIL: ENGINEERING@AIMENGR.COM * CERTIFICATE OF AUTHORIZATION No. 3114





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VILLAGE OF ESTERO
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 ESTERO FL., 33928

DATE: OCTOBER, 2019
 DRAWN BY: JW
 CHECKED BY: DS

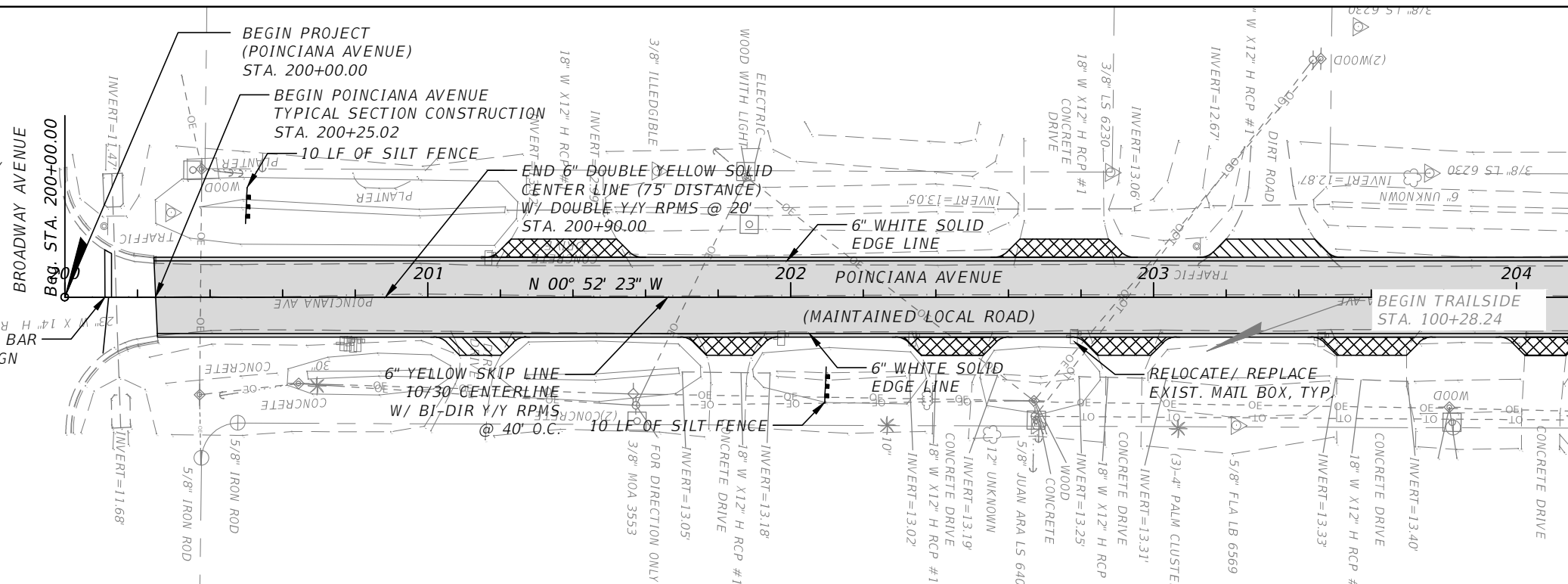
DANIEL SCHROEDER
 PROFESSIONAL ENGINEER
 P.E. NO. 78646

TRILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
 PLAN SHEETS

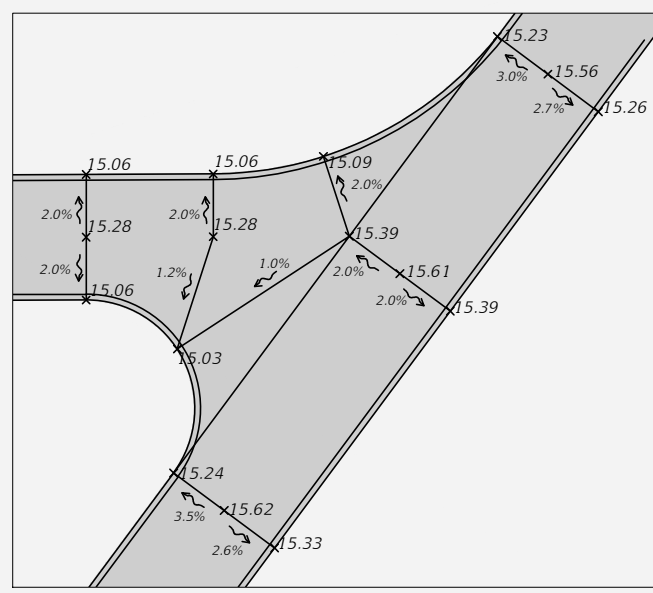
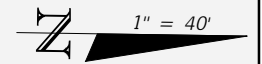
PROJECT NO. 19-0872
 SHEET NO. 8

-  AC DRIVEWAY TRANSITION
-  CONCRETE DRIVEWAY TRANSITION
-  SHELL/DIRT DRIVEWAY TRANSITION
-  RESURFACING

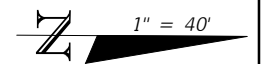
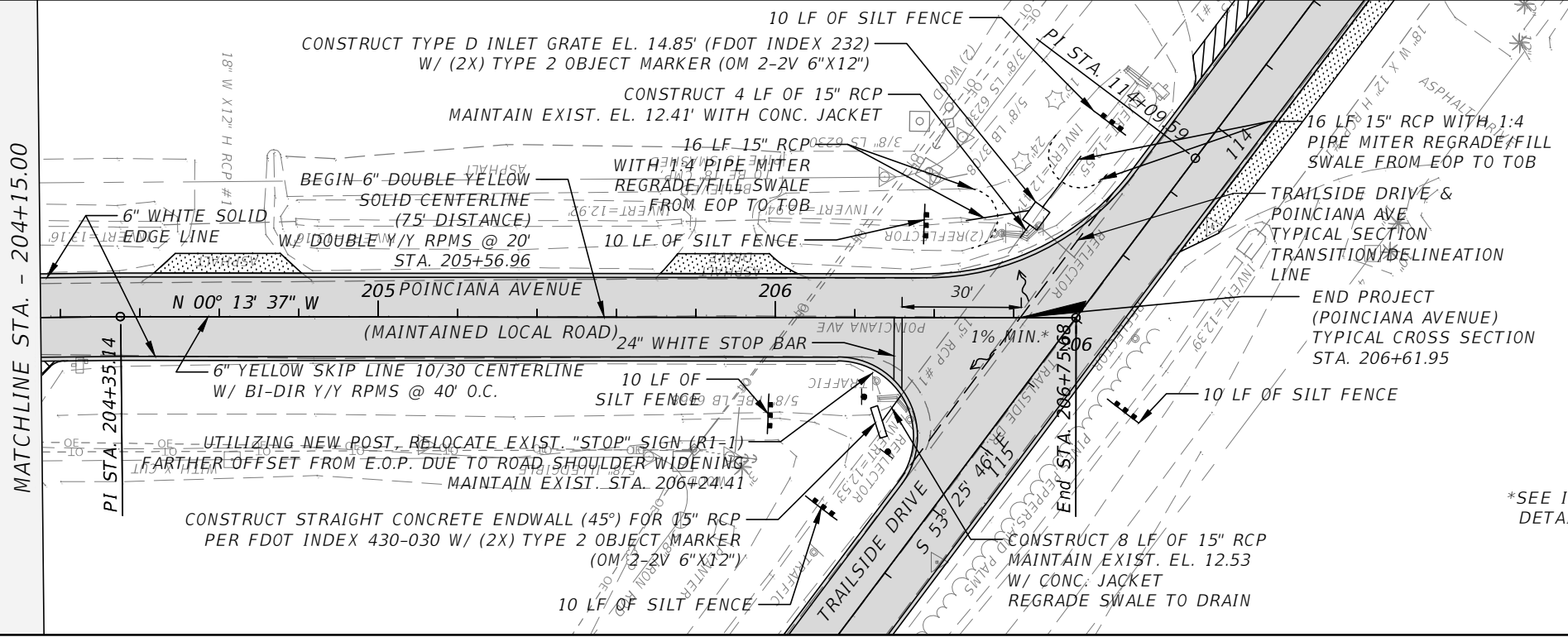
CONSTRUCT 24" WHITE STOP BAR
ALIGNED W/ EXIST. STOP SIGN
STA. 200+12.08



MATCHLINE STA. - 204+15.00



INTERSECTION DETAIL



*SEE INTERSECTION
DETAIL THIS SHEET

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NO	DATE	DESCRIPTION



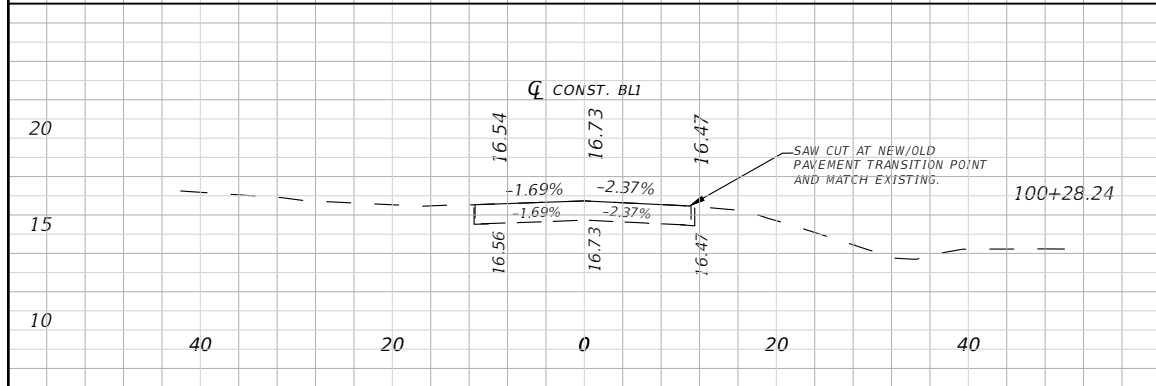
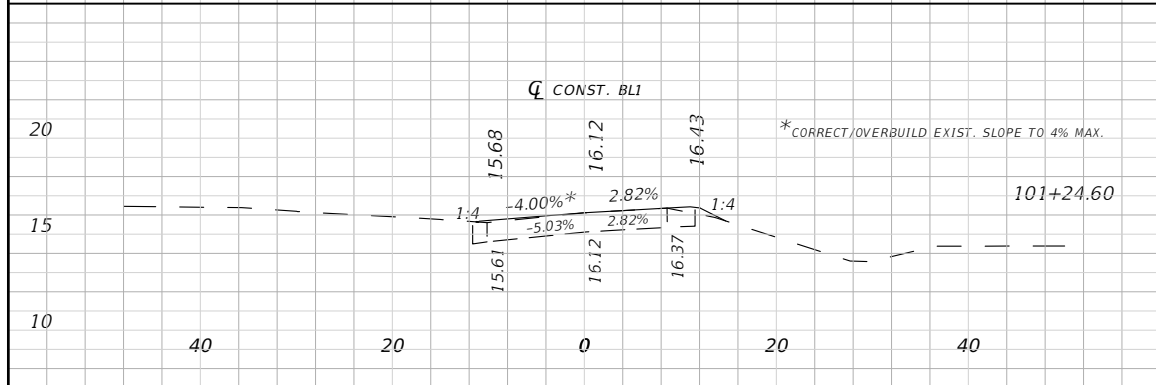
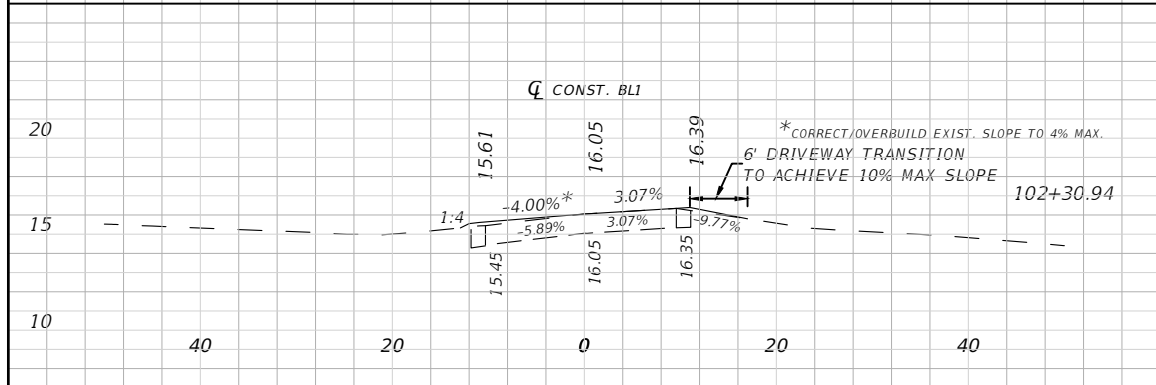
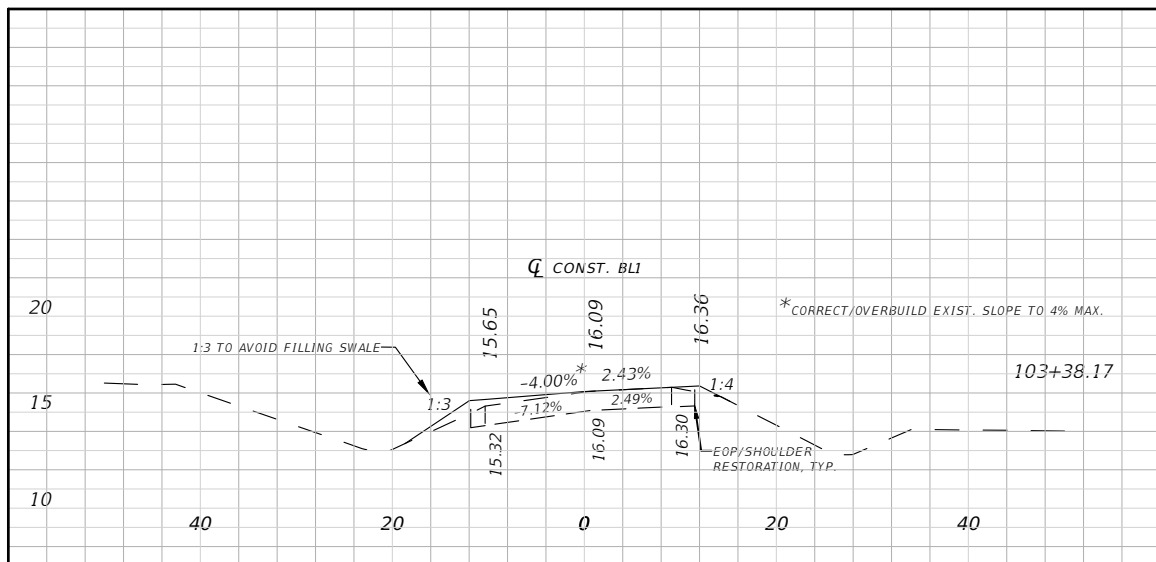
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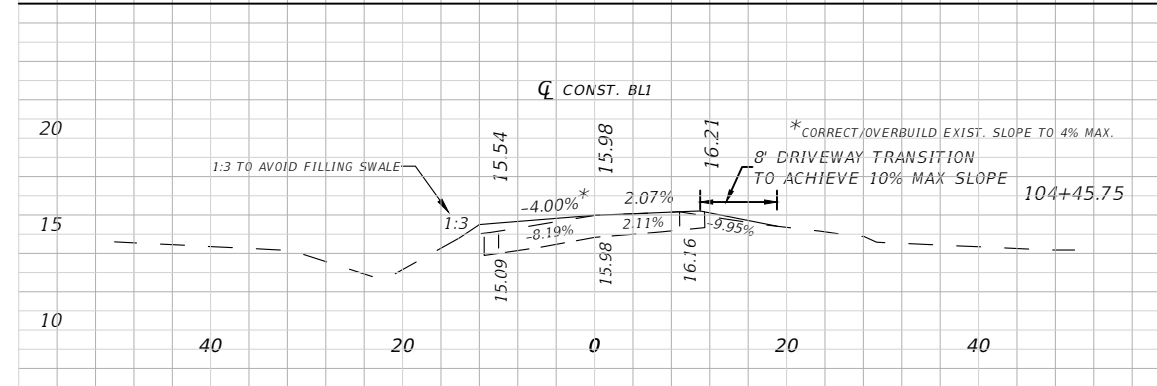
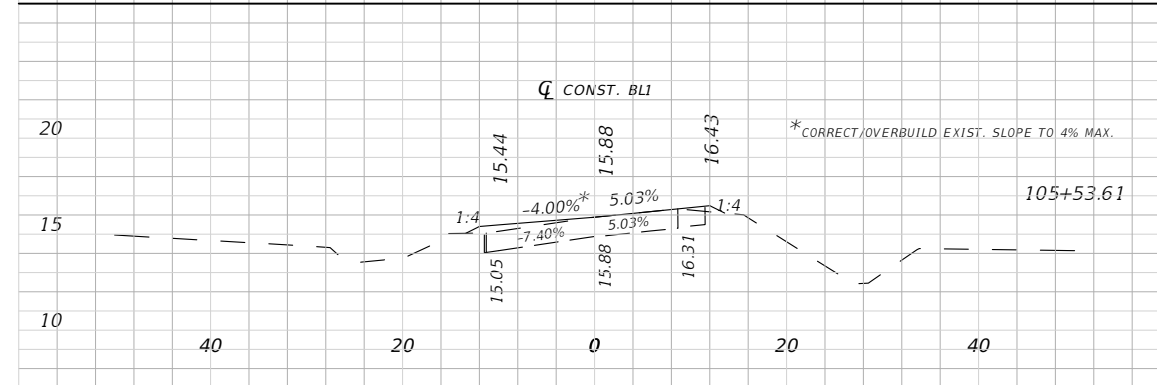
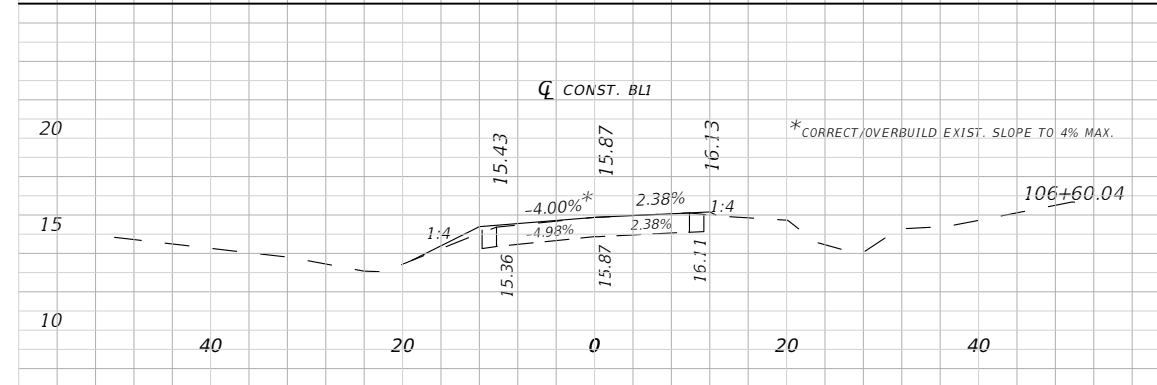
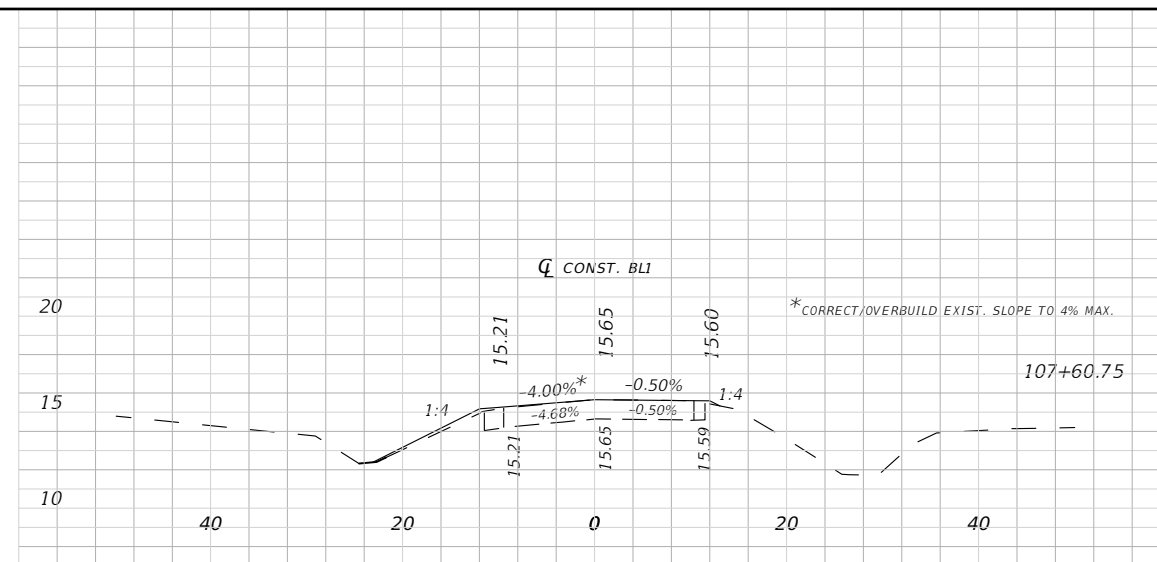
DATE:	OCTOBER, 2019
DRAWN BY:	JW
CHECKED BY:	DS
	DANIEL SCHROEDER PROFESSIONAL ENGINEER P.E. No. 78646

TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
PLAN SHEETS

PROJECT NO.	19-0872
SHEET NO.	9



TRAILSIDE DRIVE



TRAILSIDE DRIVE

1" = 20' Horizontal
1" = 10' Vertical

4.	.
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NO	DATE DESCRIPTION

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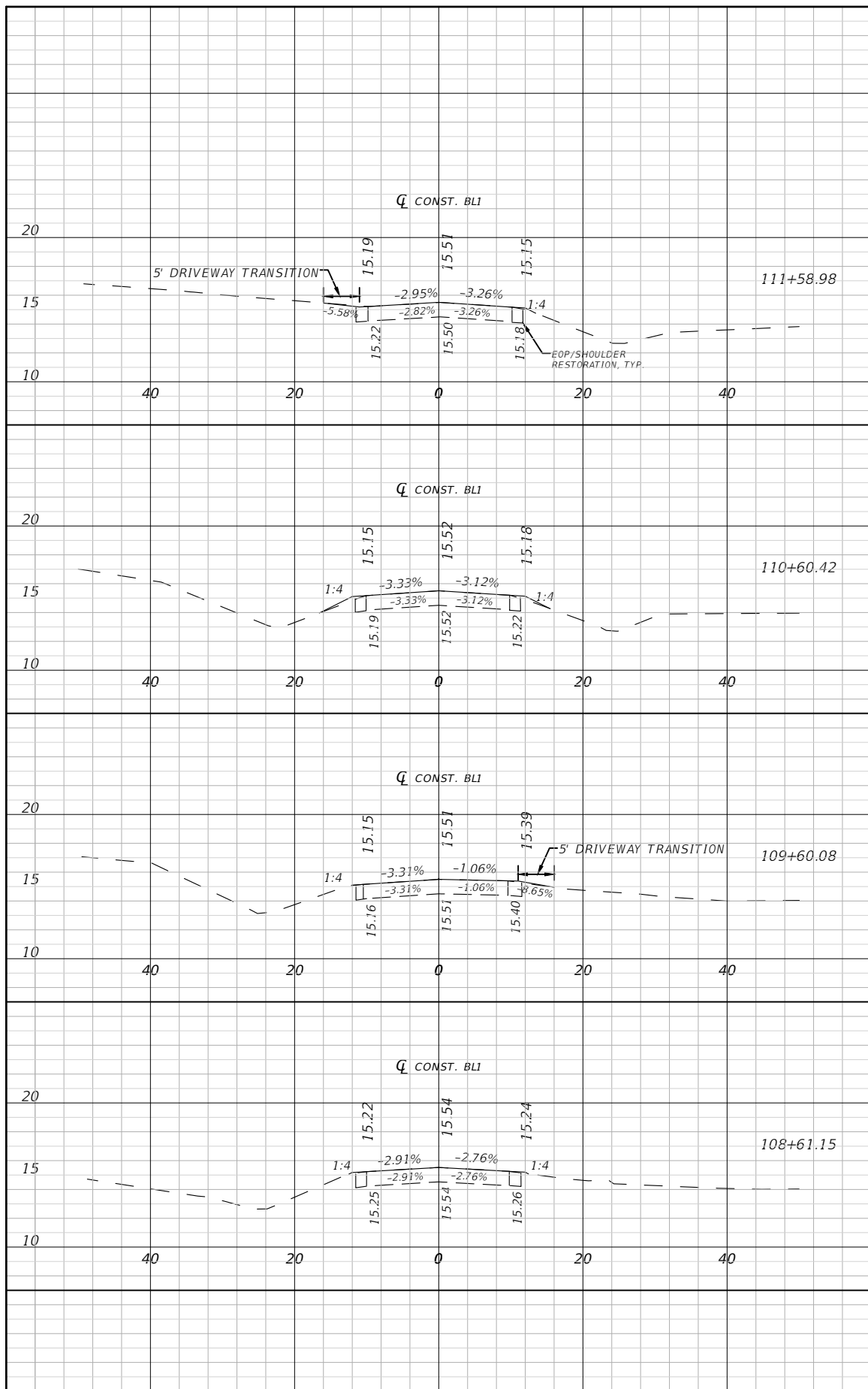
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DATE: OCTOBER, 2019
 DRAWN BY: JW
 CHECKED BY: DS
 DANIEL SCHROEDER
 PROFESSIONAL ENGINEER
 P.E. No. 78646

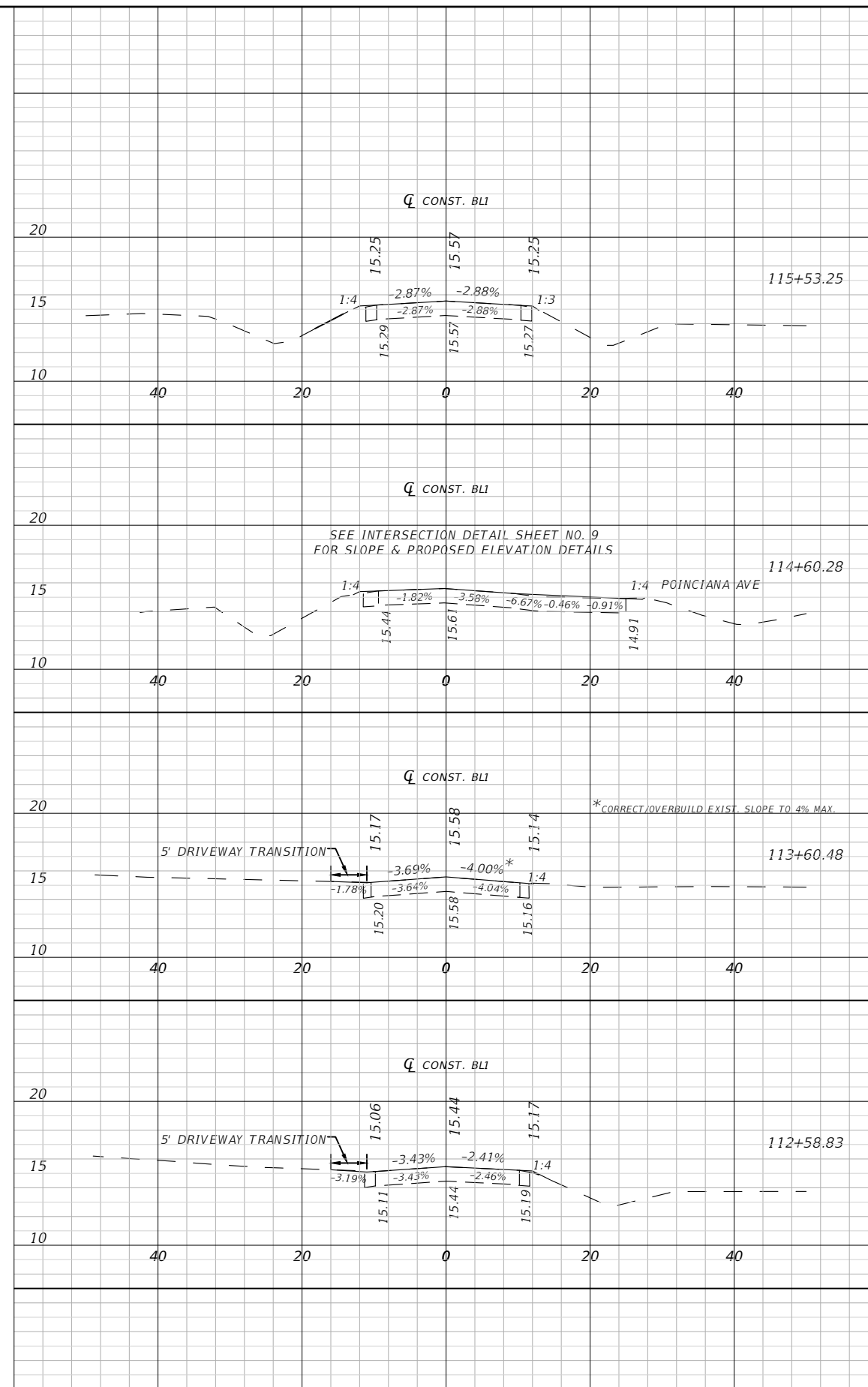
TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
CROSS SECTIONS

PROJECT NO. 19-0872
 SHEET NO. 10

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TRAILSIDE DRIVE



TRAILSIDE DRIVE

1" = 20' Horizontal
1" = 10' Vertical

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1.	.
NO	DATE DESCRIPTION

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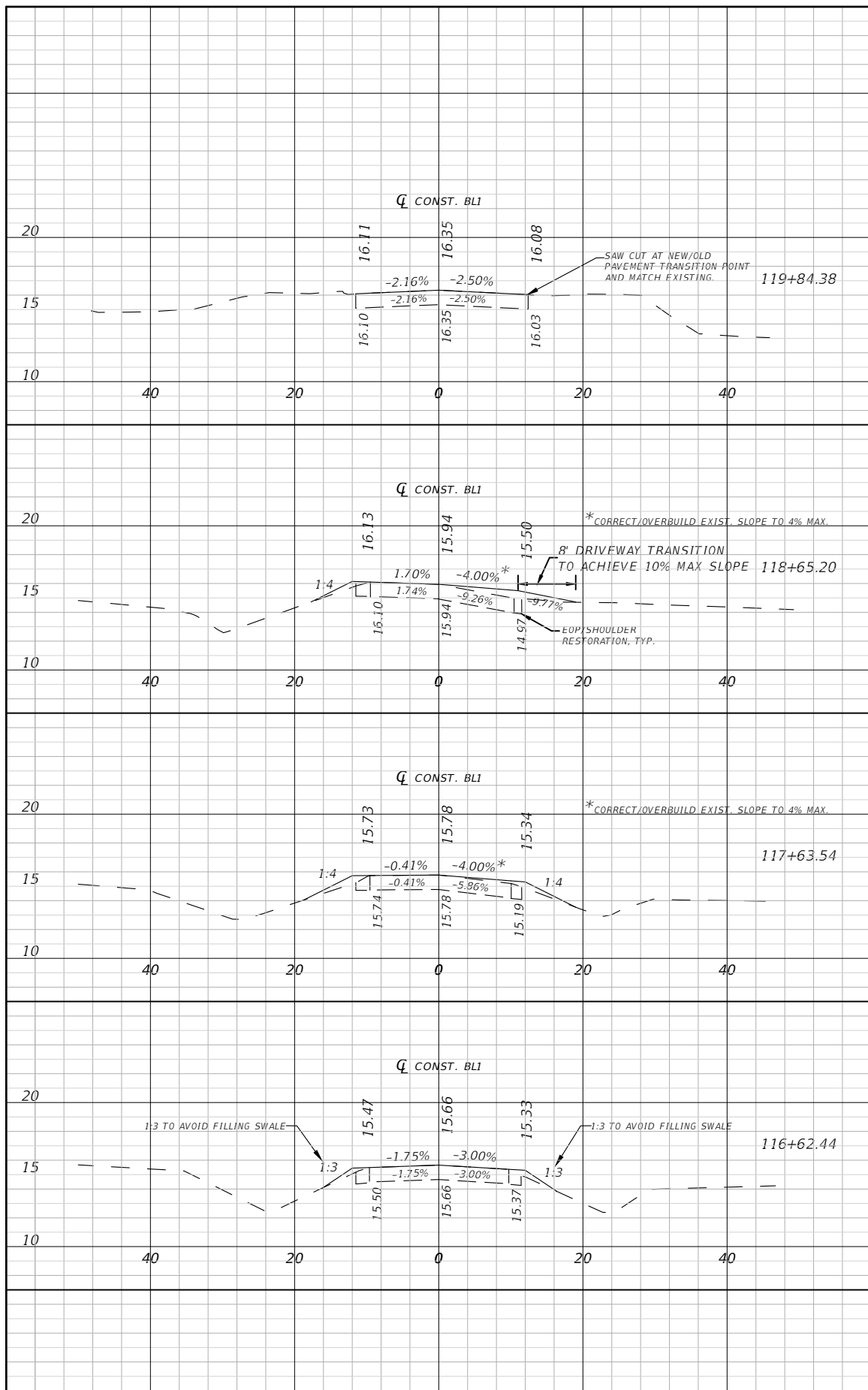
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DATE: OCTOBER, 2019
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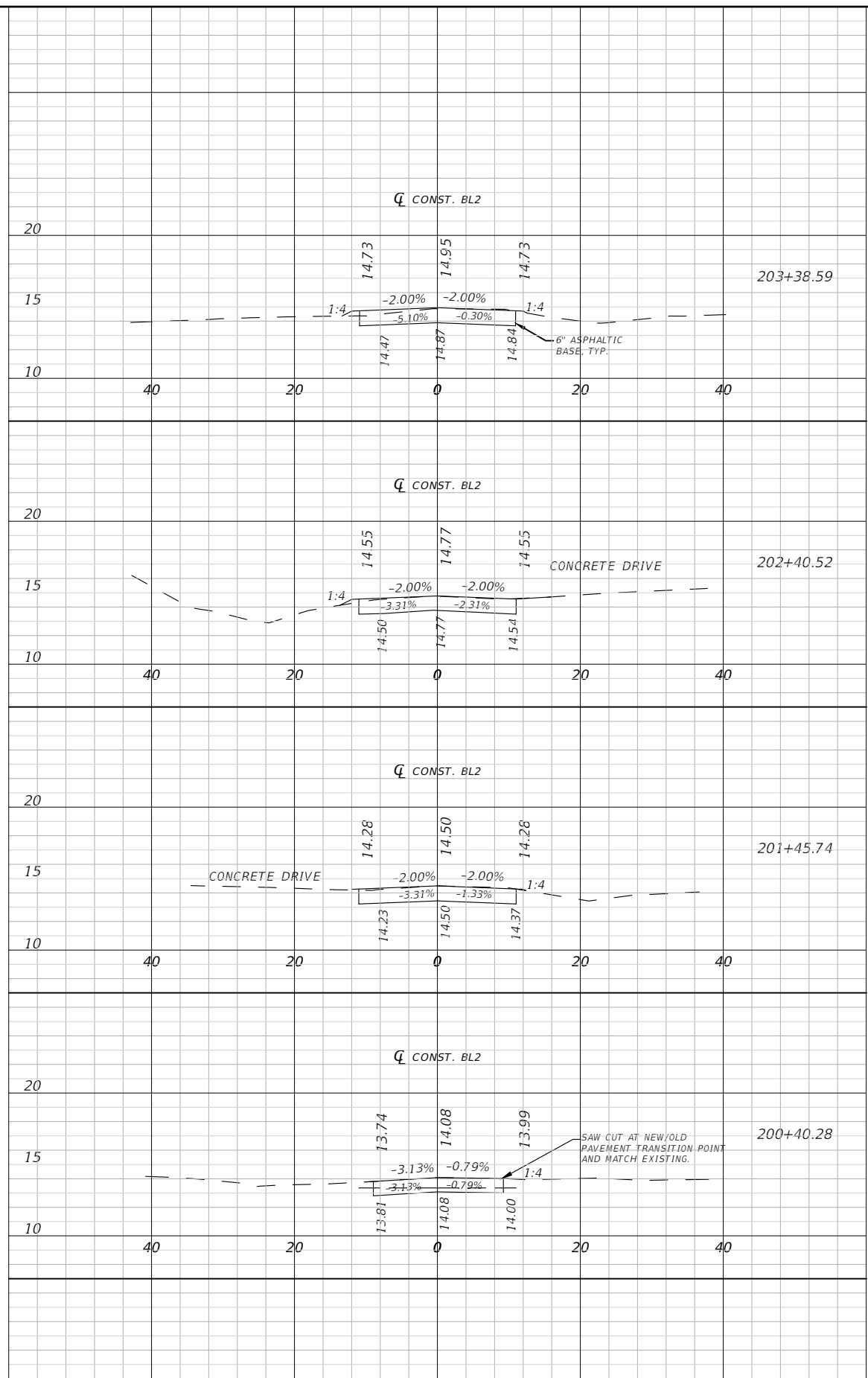
TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
CROSS SECTIONS

PROJECT NO. 19-0872
 SHEET NO. 11

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TRAILSIDE DRIVE



POINCIANA AVENUE

1" = 20' Horizontal
1" = 10' Vertical

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NO	DATE DESCRIPTION

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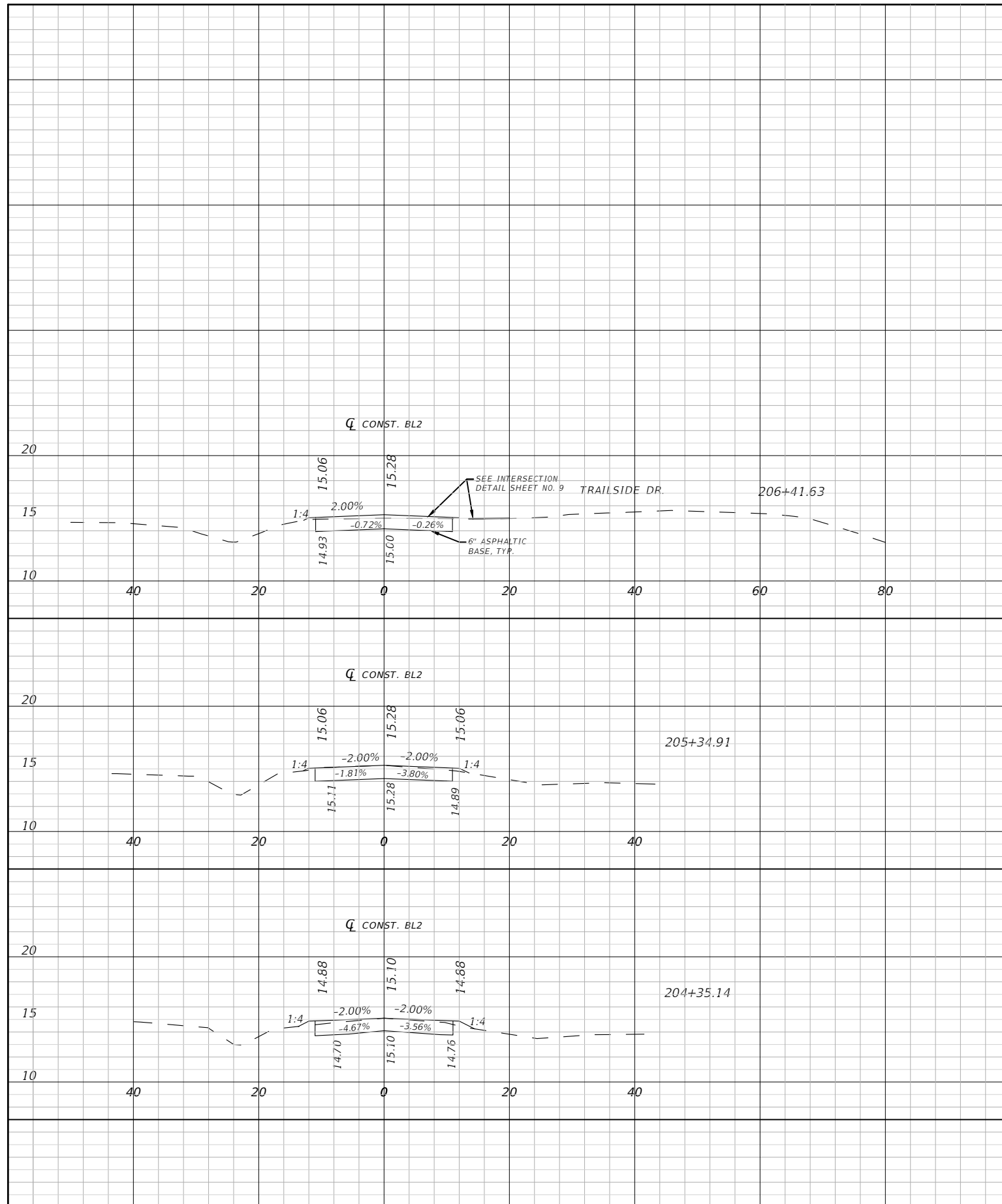
DATE: OCTOBER, 2019
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 PROFESSIONAL ENGINEER
 P.E. No. 78646

TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
CROSS SECTIONS

PROJECT NO. 19-0872
 SHEET NO. 12

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POINCIANA AVENUE



1" = 20' Horizontal
1" = 10' Vertical

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1	.	.
NO	DATE	DESCRIPTION



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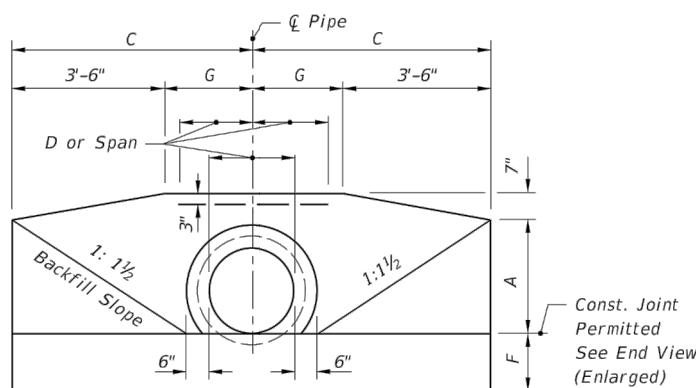
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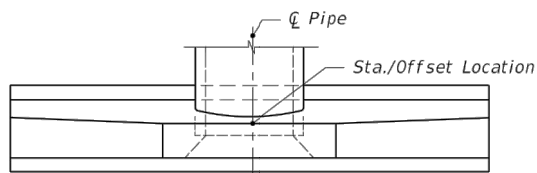
TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
CROSS SECTIONS

PROJECT NO.	19-0872
SHEET NO.:	13

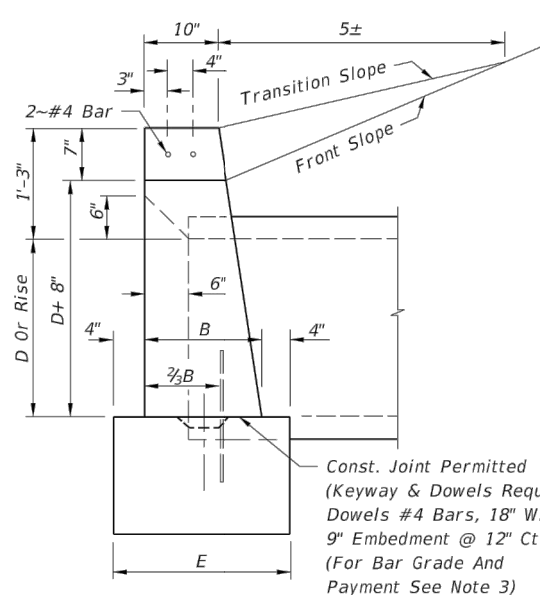
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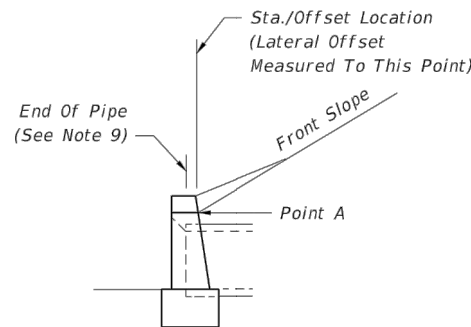
FRONT VIEW



TOP VIEW



END VIEW (ENLARGED)



END VIEW

1. Position is set by the intersection of the front slope and Point A where this intersection falls outside the clear zone.
2. Where the front slope and Point A intersects inside the clear zone, the endwall is positioned so the Station/Offset Location is at the clear zone limit. The front slope is transitioned to the endwall as shown in Index 430-001.

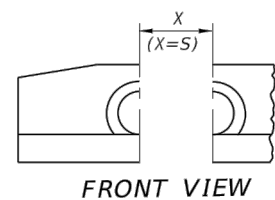
STANDARD LOCATION CONTROL

GENERAL NOTES

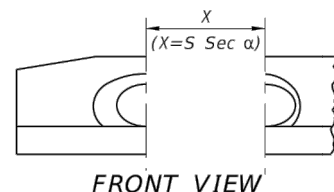
1. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
2. Front slope and ditch transitions shall be in accordance with Index 430-001.
3. Endwalls may be cast in place or precast concrete. Reinforcing steel shall be Grades 40 or 60. Additional reinforcement necessary for handling precast units shall be determined by the Contractor or the supplier. Cost of reinforcement shall be included in the contract unit price for Concrete, (Endwalls).
4. All exposed corners and edges of concrete are to be chamfered 3/4".
5. Concrete shall be Class I, except ASTM C478 (4000 psi) concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 449 of the Specifications.
6. On outfall ditches with side slopes flatter than 1:1 1/2 provide 20' transitions from the endwall to the flatter side slopes, right of way permitting.
7. For sodding around endwalls see Index 524-001.
8. Payment for concrete quantities for endwalls skewed to the pipe shall be made on the following basis:

Endwall Skew to Pipe	Use Tabulated Value
0° to 5°	0°
6°	15°
16°	30°
31° or over	45°
9. Pipe length plan quantities shall be based on the pipe end locations shown in the standard location control end view, or lengths based on special endwall locations called for in the plans.
10. Payment for pipe in pipe culverts shall be based on plan quantities, adjusted for endwall locations subsequently established by the Engineer.
11. Endwalls to be paid for under the contract unit price for Class I Concrete (Endwalls), CY.

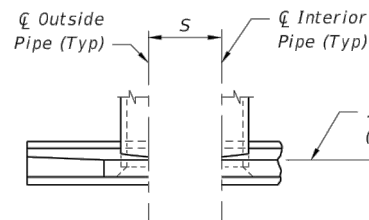
ENDWALL DIMENSIONS (EXCLUSIVE OF MULTIPLE PIPE SPACING)



FRONT VIEW

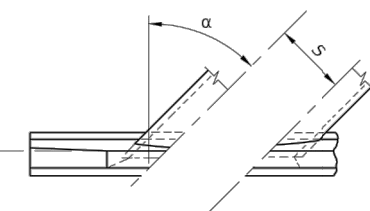


FRONT VIEW



TOP VIEW

NORMAL PIPE



TOP VIEW

SKewed PIPE

LEGEND

- α Pipe Skew
- S Center To Center Pipe Spacing
- X Centerline To Centerline Dimension At Face Of Headwall

PIPE AND SPACING FOR MULTIPLE PIPE
ENDWALL POSITIONS FOR SINGLE AND MULTIPLE

10/24/2018 8:58:44 AM

LAST REVISION 11/01/17	REVISION	DESCRIPTION:	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE		INDEX 430-030	SHEET 1 of 2
---------------------------	----------	--------------	--	--	------------------	-----------------

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NO	DATE	DESCRIPTION

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 ESTERO FL., 33928

DATE: OCTOBER, 2019
 DRAWN BY: JW
 CHECKED BY: DS
 DANIEL SCHROEDER
 PROFESSIONAL ENGINEER
 P.E. No. 78646

TRAILSIDE DRIVE AND POINCIANA AVENUE
 RESURFACING/REBUILD PROJECT
ENDWALL DETAIL

PROJECT NO.
19-0872
 SHEET NO.:
14

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DATA AND ESTIMATED QUANTITIES FOR ONE ENDWALL

ROUND CONCRETE AND CORRUGATED METAL PIPE

Table with columns for Opening Area (SF), Dimensions (A-S), and Class I Concrete (CY) quantities for Single, Double, Triple, and Quadruple pipe configurations. Rows list pipe diameters from 15" to 54".

CORRUGATED METAL PIPE ARCH

Table with columns for Span, Rise, Opening Area (SF), Dimensions (A-S), and Class I Concrete (CY) quantities for Single, Double, Triple, and Quadruple pipe arch configurations. Rows list spans from 17" to 71".

Note: Use the guidelines of General Note 8 for selecting tabular quantities.

CONCRETE ELLIPTICAL PIPE

Table with columns for Rise, Span, Opening Area (SF), Dimensions (A-S), and Class I Concrete (CY) quantities for Single, Double, Triple, and Quadruple pipe configurations. Rows list pipe diameters from 12" to 58".

10/24/2018 8:58:45 AM

Table with columns for LAST REVISION (11/01/17), DESCRIPTION, STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE, INDEX (430-030), and SHEET (2 of 2).

Table with columns for NO, DATE, and DESCRIPTION.



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Table with columns for DATE (OCTOBER, 2019), DRAWN BY (JW), CHECKED BY (DS), and DANIEL SCHROEDER PROFESSIONAL ENGINEER P.E. No. 78646

TRAILSIDE DRIVE AND POINCIANA AVENUE RESURFACING/REBUILD PROJECT ENDWALL DETAIL

Table with columns for PROJECT NO. (19-0872) and SHEET NO. (15)

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