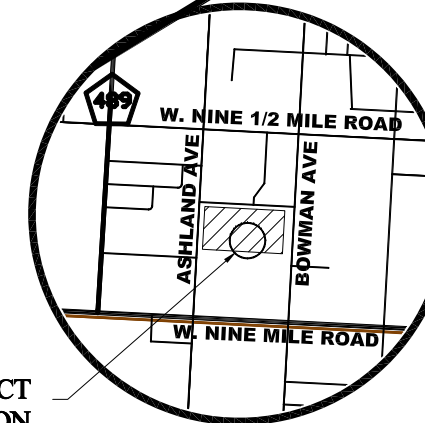
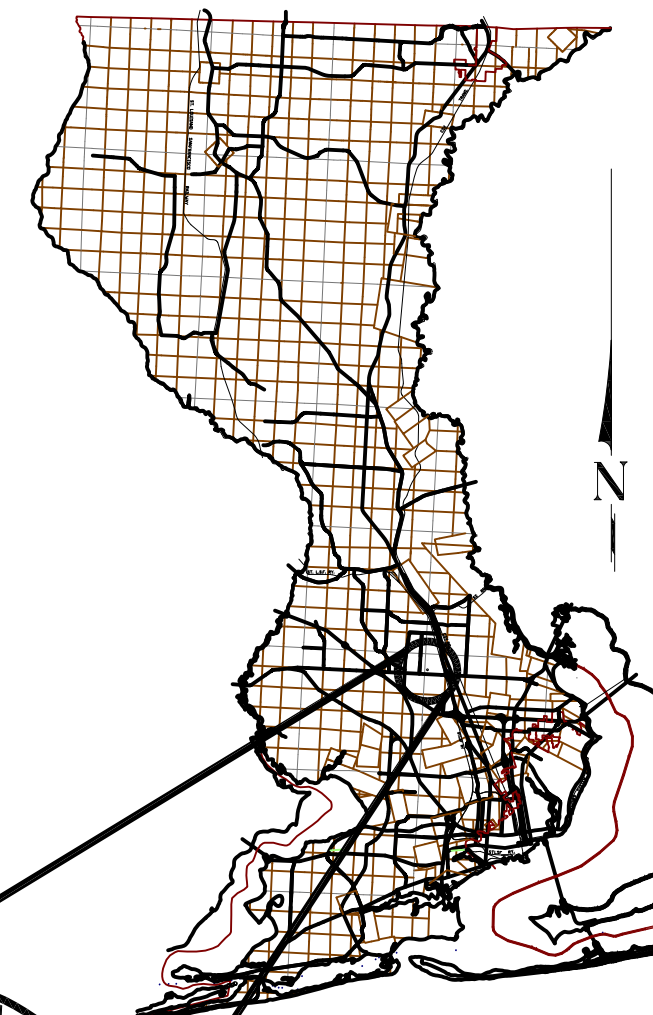




BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING / INFRASTRUCTURE DIVISION



VICINITY MAP

PROJECT LOCATION

PLANS PROPOSED FOR
PONDEROSA DRIVE
POND EXPANSION
ENG 1463

INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	DRAINAGE AREA MAP
4	PROJECT LAYOUT
5	DEMOLITION PLAN
6	DRAINAGE PLAN
7-10	STORM INLETS - PLAN & PROFILE
11	PONDEROSA DRIVE X-ING - PLAN & PROFILE
12	PONDEROSA DRIVE SWALE - PLAN & PROFILE
13-19	DETAIL SHEETS
20	EROSION CONTROL PLAN

RELEASED FOR CONSTRUCTION
AUGUST 2016

COMMISSIONERS

- | | |
|----------------|---------------------------------|
| DISTRICT ONE | WILSON ROBERTSON, VICE CHAIRMAN |
| DISTRICT TWO | DOUG UNDERHILL |
| DISTRICT THREE | LUMAN MAY |
| DISTRICT FOUR | GROVER C. ROBINSON IV, CHAIRMAN |
| DISTRICT FIVE | STEVEN BARRY |

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

PROJECT MANAGER: NICK CHAUVIN	
SECTION / TOWNSHIP / RANGE: 09 / 1S / 30W	DISTRICT: 5
PROJECT ENGINEER: JEREMY KING	REG FLA ENG NO: 76144
SIGNATURE:	DATE: JUNE 2016

L:\Design\Projects\Design\DWG\Plans\1_CO_COVER-MK.dwg, Aug 10, 2016 - 9:06:12AM, dlmvey

GENERAL NOTES:

- THE CONTRACTORS SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
- ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.
- ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
- COMPLIANCE WITH AND ACQUISITION OF ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
- EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
- ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.
- EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.
- IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:

DANNY R. SWAIN, PLS
ESCAMBIA COUNTY SURVEYOR
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505 PH (850) 595-3427
- VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
- GRADED AGGREGATE BASE SHALL BE REQUIRED FOR ROADWAYS UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMAIN UNLESS OTHERWISE NOTED IN PLANS.
- ALL COMPACTED FILL SHALL BE PLACED IN LAYERS OR LIFTS NOT MORE THAN 12" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.
- ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS. ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED.
- ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.
- THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.
- WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(I), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.
- PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.

29. IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.

30. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH F.S. 872.05.

31. CONTRACTOR SHALL OBTAIN COUNTY APPROVED CHANGE ORDER PRIOR TO PERFORMING ANY ADDITIONAL WORK.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.

2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

SEWER/WATER -
EMERALD COAST UTILITY AUTHORITY
MR. MIKE HAMLIN
9255 STUDENVANT STREET
PENSACOLA, FL. 32514 PH: (850) 777-0812

ELECTRIC - GULF POWER
MR. CHAD SWAILS
5120 DOGWOOD DRIVE
MILTON, FL. 32570 PH: (850) 429-2446

NATURAL GAS - PENSACOLA ENERGY
MS. DIANE MOORE
1625 ATWOOD DRIVE
PENSACOLA, FL. 32514 PH: (850) 474-5319

CABLE - COX CABLE
MR. TROY YOUNG
3405 McLEMORE
PENSACOLA, FL. 32514 PH: (850) 232-5044

TELEPHONE - AT&T FLORIDA
MR. BARRY POWELL
605 W. GARDEN STREET, 2ND FLOOR
PENSACOLA, FL. 32501 PH: (850) 207-7607

SUNSHINE STATE ONE-CALL
7200 LAKE ELLENOR DRIVE, SUITE 200
ORLANDO, FL. 32809 PH: (800) 432-4770

TRAFFIC DEPARTMENT
ESCAMBIA COUNTY PUBLIC WORKS
MRS. JOHNNY PETTIGREW
3363 WEST PARK PLACE
PENSACOLA, FL. 32505 PH:(850) 595-3404

3. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORKWORK.

4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.


5. ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT INDEX 17781.

6. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.

7. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.

LEGEND:

 - POWER POLE

 - GUY WIRE


 - TELEPHONE PEDESTAL

 - TELEPHONE JUNCTION BOX

 - WATER METER

 - WATER VALVE

 - GAS VALVE

 - MAIL BOX

 - SIGN

C.L.F. - CHAIN LINK FENCE

W.P.F. - WOOD PRIVACY FENCE

X 115.24 - SPOT ELEVATION

INV. ELEV. - INVERT ELEVATION

TBM - TEMPORARY BENCHMARK


R/W - RIGHT-OF-WAY

F.F.E. - FINISH FLOOR ELEVATION

ORB - OFFICIAL RECORD BOOK

I.D. # - IDENTIFICATION NUMBER

 - RIGHT-OF-WAY LINE

 - PROPERTY LINE


 -90 - CONTOUR LINE

 - WOODS LINE


 - UNDERGROUND STORM WATER LINE

 - UNDERGROUND GAS LINE


 - UNDERGROUND TELEPHONE LINE


 - OVERHEAD UTILITY LINE

 - ASPHALT

 - BORE LOCATION

 93 - PROPOSED CONTOUR

 - PROPOSED CHAIN LINK FENCE

 - PROPOSED SILT FENCING

PONDEROSA DRIVE
GENERAL NOTES

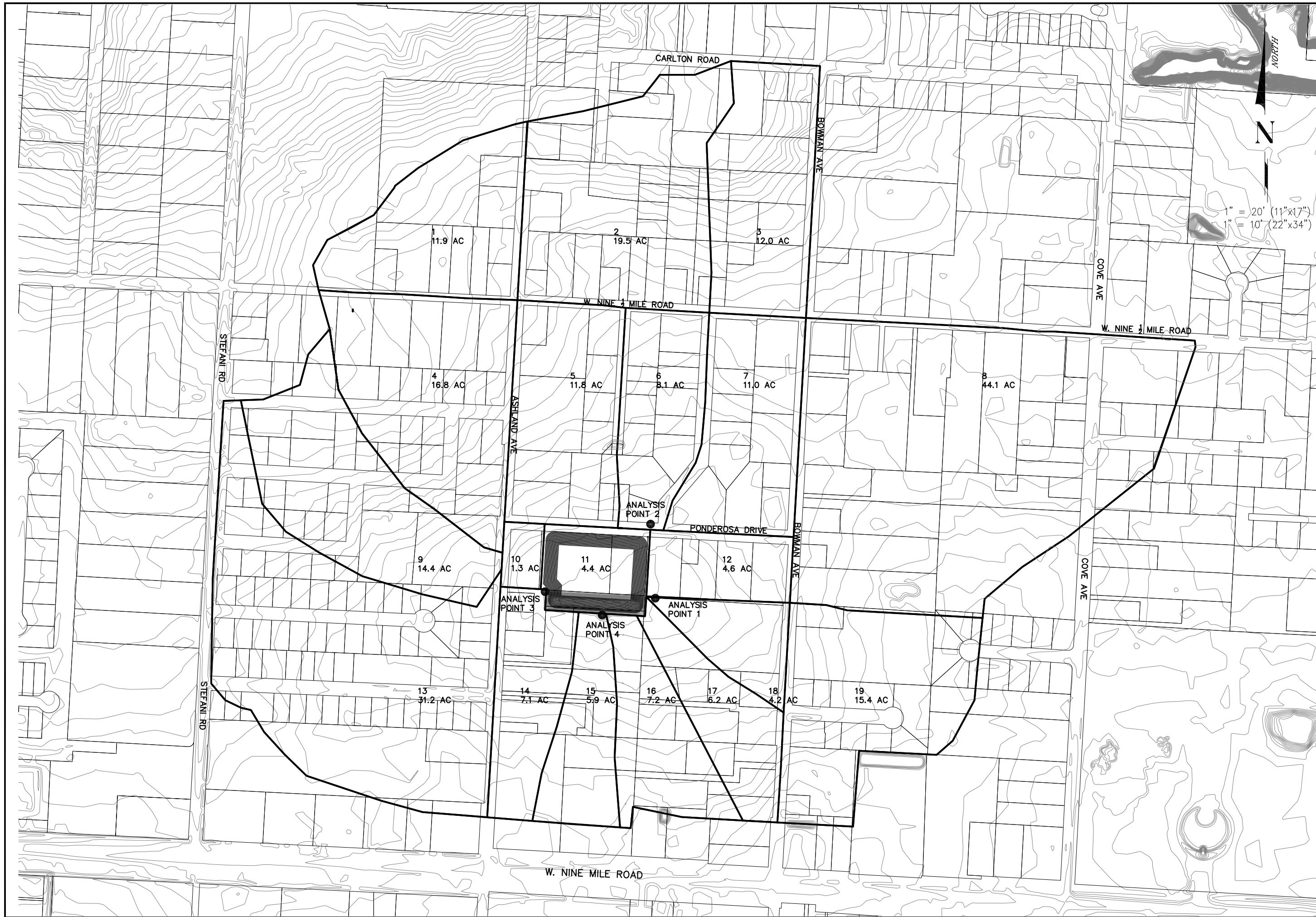


ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY: C.GREEN	CHECKED BY: J.KING	REG. FLA. ENG. NO. 76144	DATE
PROJECT MANAGER: NICK CHAUVIN	DISTRICT: 3	SIGNATURE	
DRAWN BY: C.GREEN		SECTION/TOWNSHIP/RANGE 09 / 15 / 09W	
DATE: JUNE 2016		FIELD BOOK PAGES: XXXX	

REVISIONS	DATE	APPROVED BY

DRAWING NUMBER	L-5031
PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	2 OF 20



PONDEROSA DRIVE DRAINAGE AREA MAP

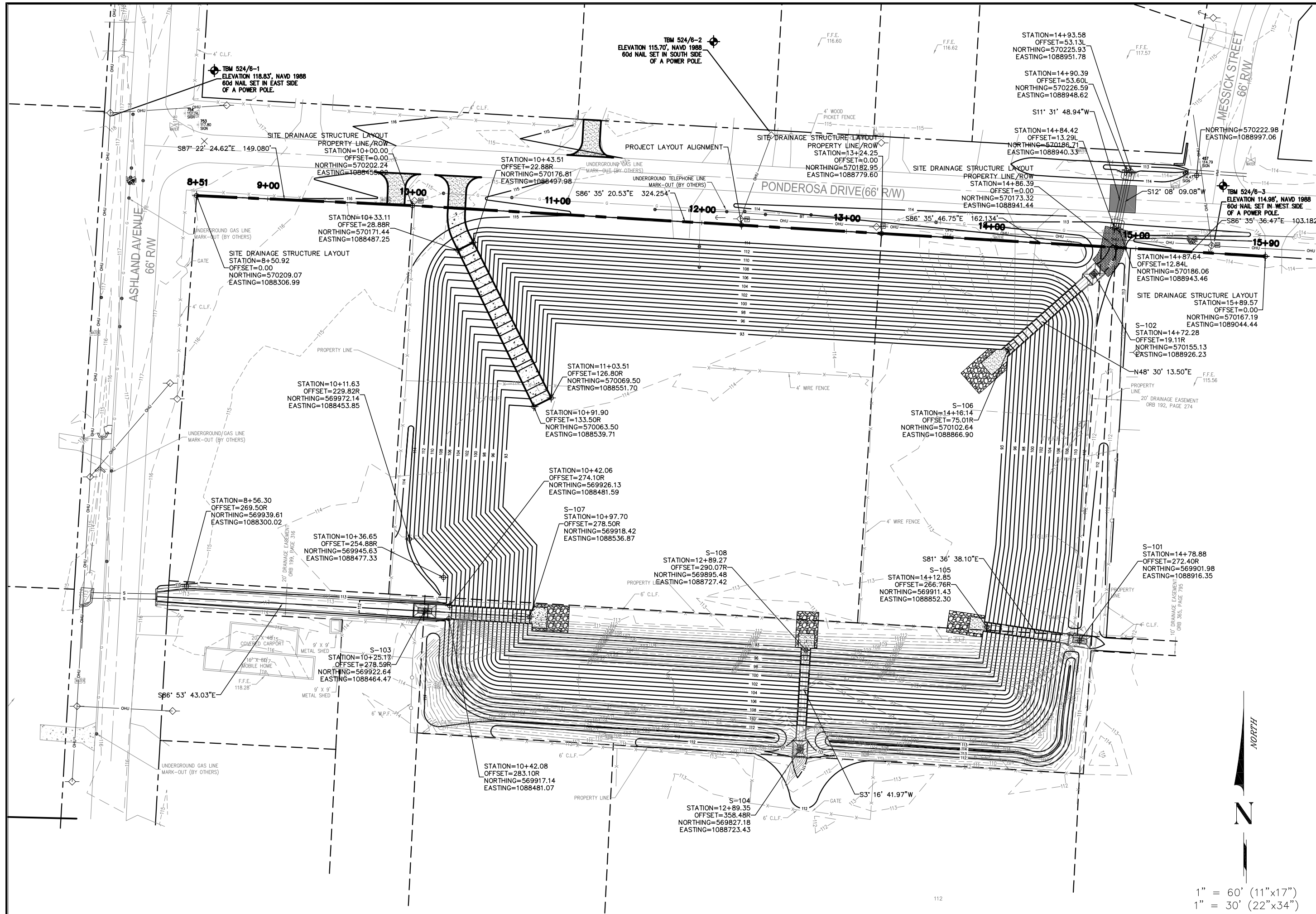


ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY:	C.GREEN	CHECKED BY:	J. KING
DRAWN BY:	C.GREEN	PROJECT MANAGER:	NICK CHAUVIN
DATE:	JUNE 2016	DISTRICT:	3
FIELD BOOK PAGES:	XXXXX	SECTION/TOWNSHIP/RANGE:	09/1S/20W
REG. FEA. LIC. NO.	76144	SIGNATURE:	

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 PROJECT NUMBER: ENG1463
 SURVEY NUMBER: 20150056
 SHEET 3 OF 20



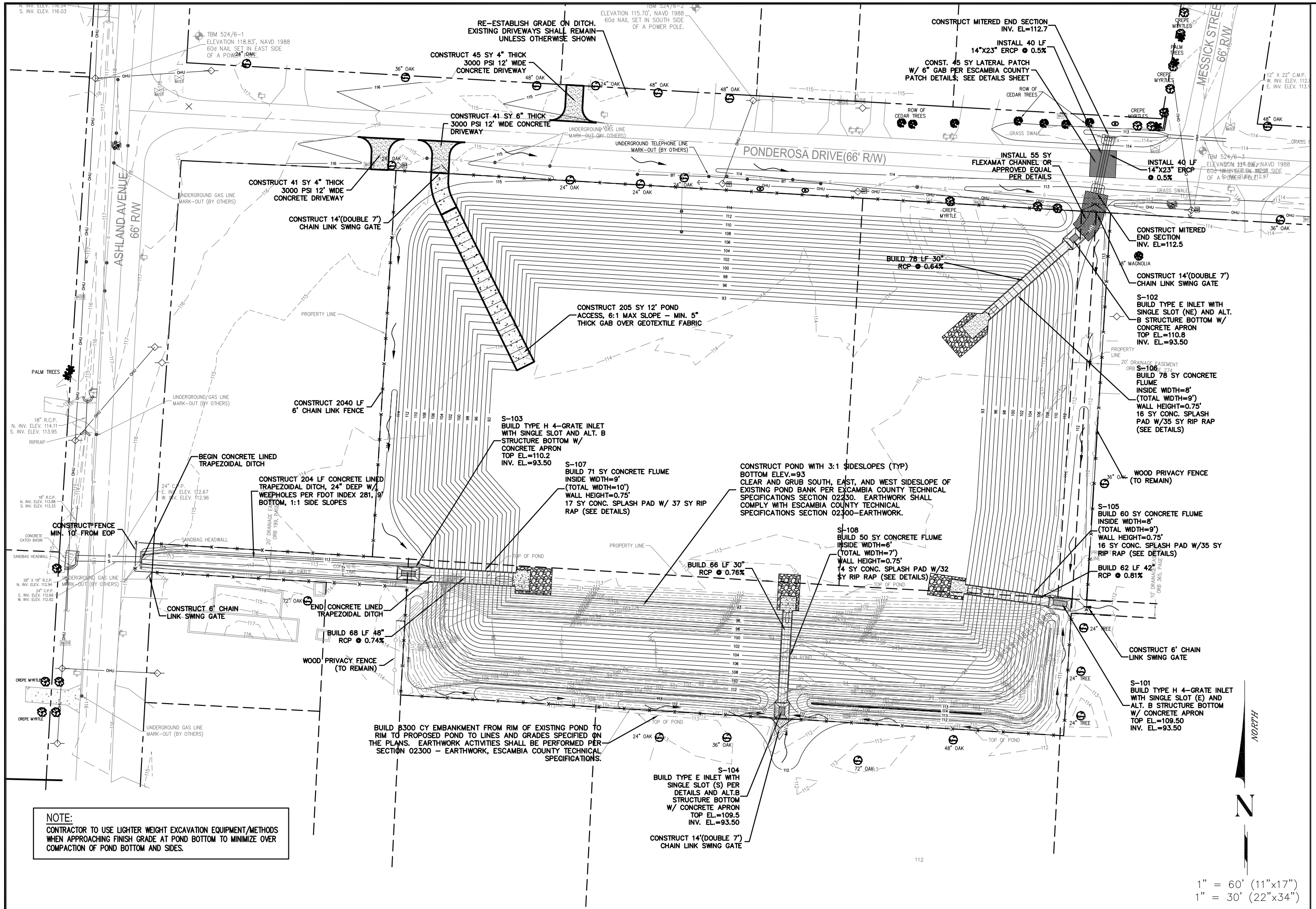
**PONDEROSA DRIVE
PROJECT LAYOUT**



ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY:	C.GREEN	CHECKED BY:	J.KING	DATE:	7/14/14
DRAWN BY:	C.GREEN	PROJECT MANAGER:	NICK CHAUVIN	DISTRICT:	3
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PROJECT NUMBER:	ENG1463				
SURVEY NUMBER:	20150056				
SHEET:	4	OF	20		

1" = 60' (11"x17")
 1" = 30' (22"x34")



NOTE:
 CONTRACTOR TO USE LIGHTER WEIGHT EXCAVATION EQUIPMENT/METHODS WHEN APPROACHING FINISH GRADE AT POND BOTTOM TO MINIMIZE OVER COMPACTION OF POND BOTTOM AND SIDES.

PONDEROSA DRIVE DRAINAGE PLAN

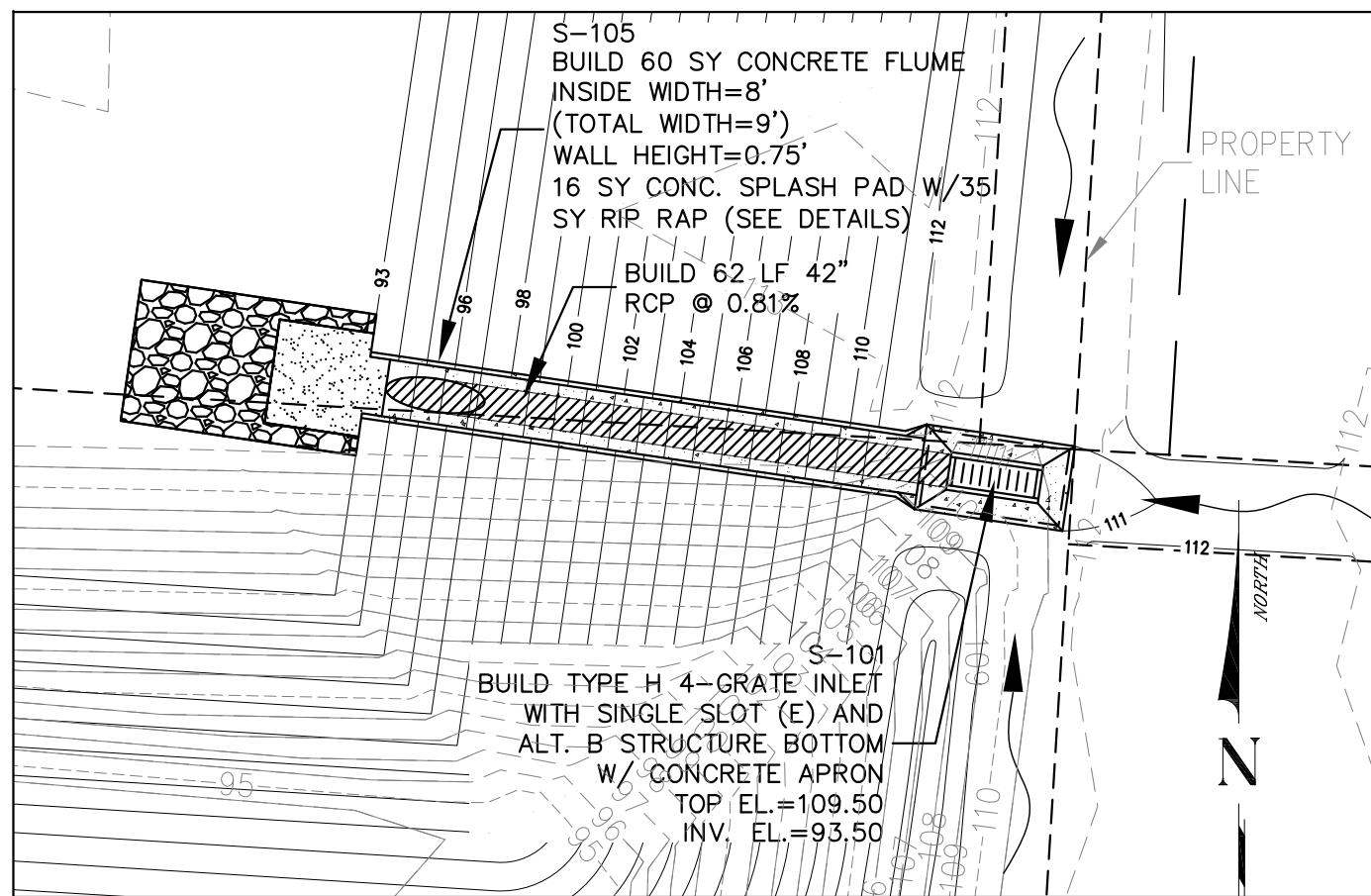


ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY:	C.GREEN	CHECKED BY:	J.KING	DATE:	7/6/14
DRAWN BY:	C.GREEN	PROJECT MANAGER:	NICK CHAUVIN	DISTRICT:	3
DATE:	JUNE 2016	SECTION/TOWNSHIP/RANGE:	09 / 1S / 20W		
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DRAWING NUMBER:	L-5031				
PROJECT NUMBER:	ENG1463				
SURVEY NUMBER:	20150056				
SHEET:	6 OF 20				

1" = 60' (11"x17")
 1" = 30' (22"x34")

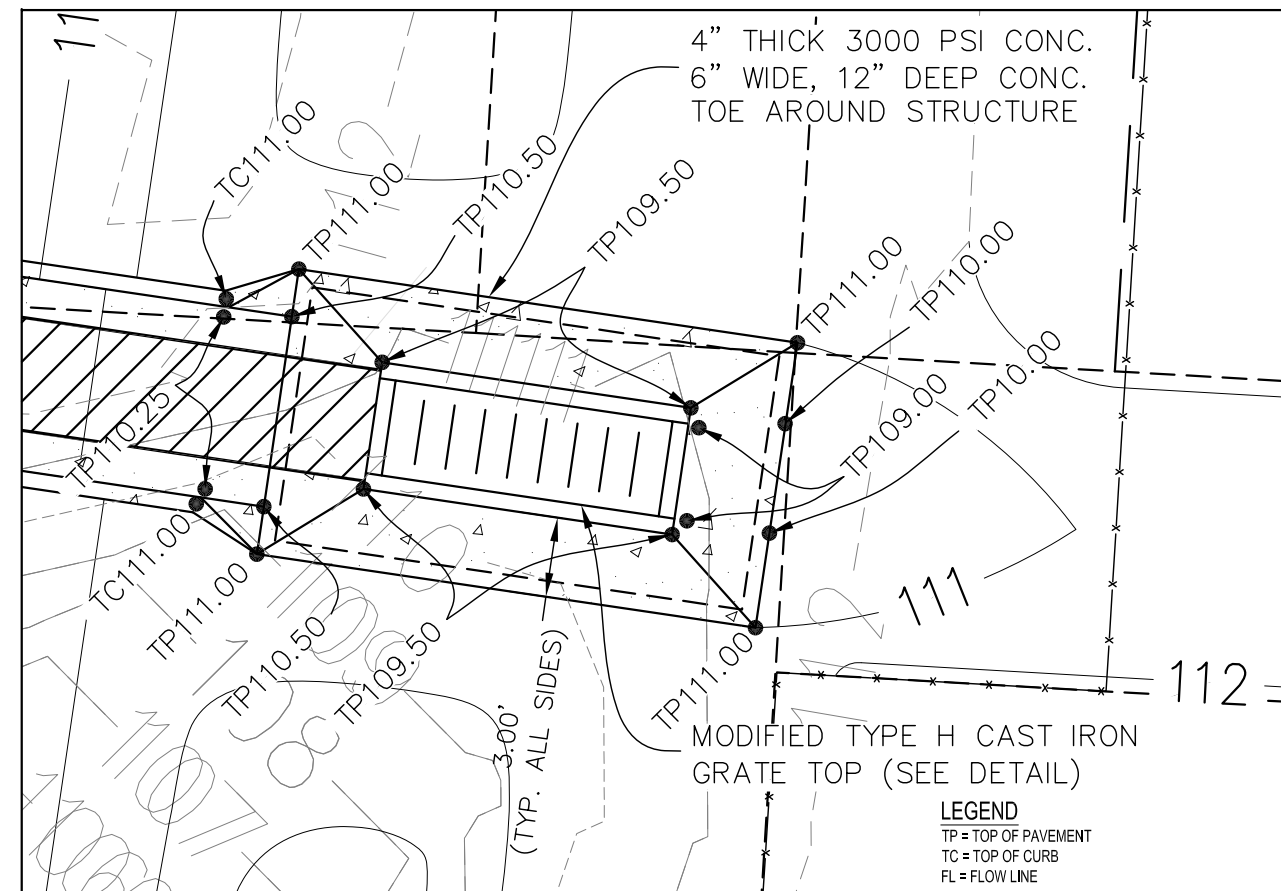
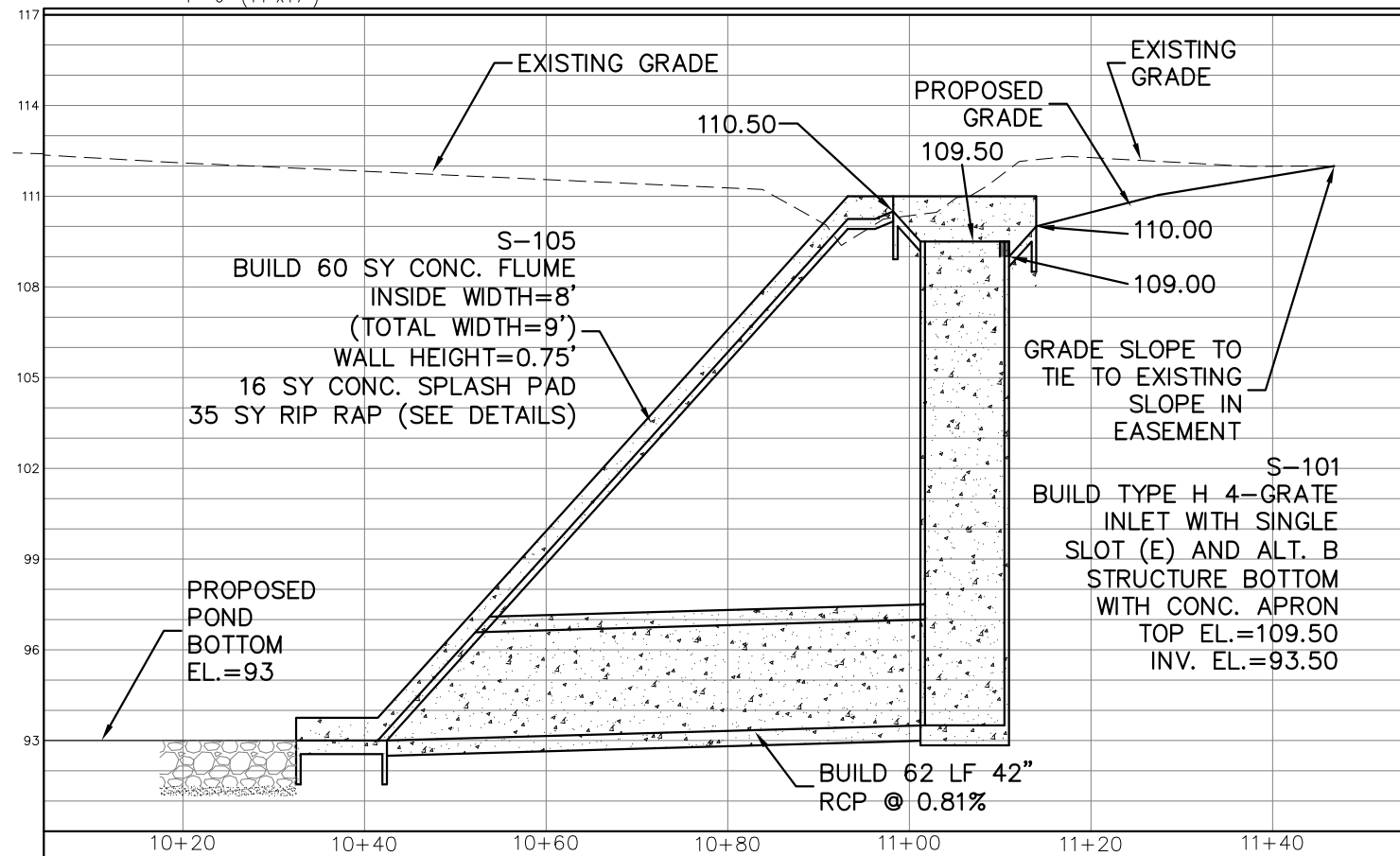




INLET S-101

1" = 20' (11"x17")
1" = 10' (22"x34")

HORIZONTAL SCALE : 1"=20' (11"x17")
1"=10' (22"x34")
VERTICAL SCALE : 1"=3' (22"x34")
1"=6' (11"x17")



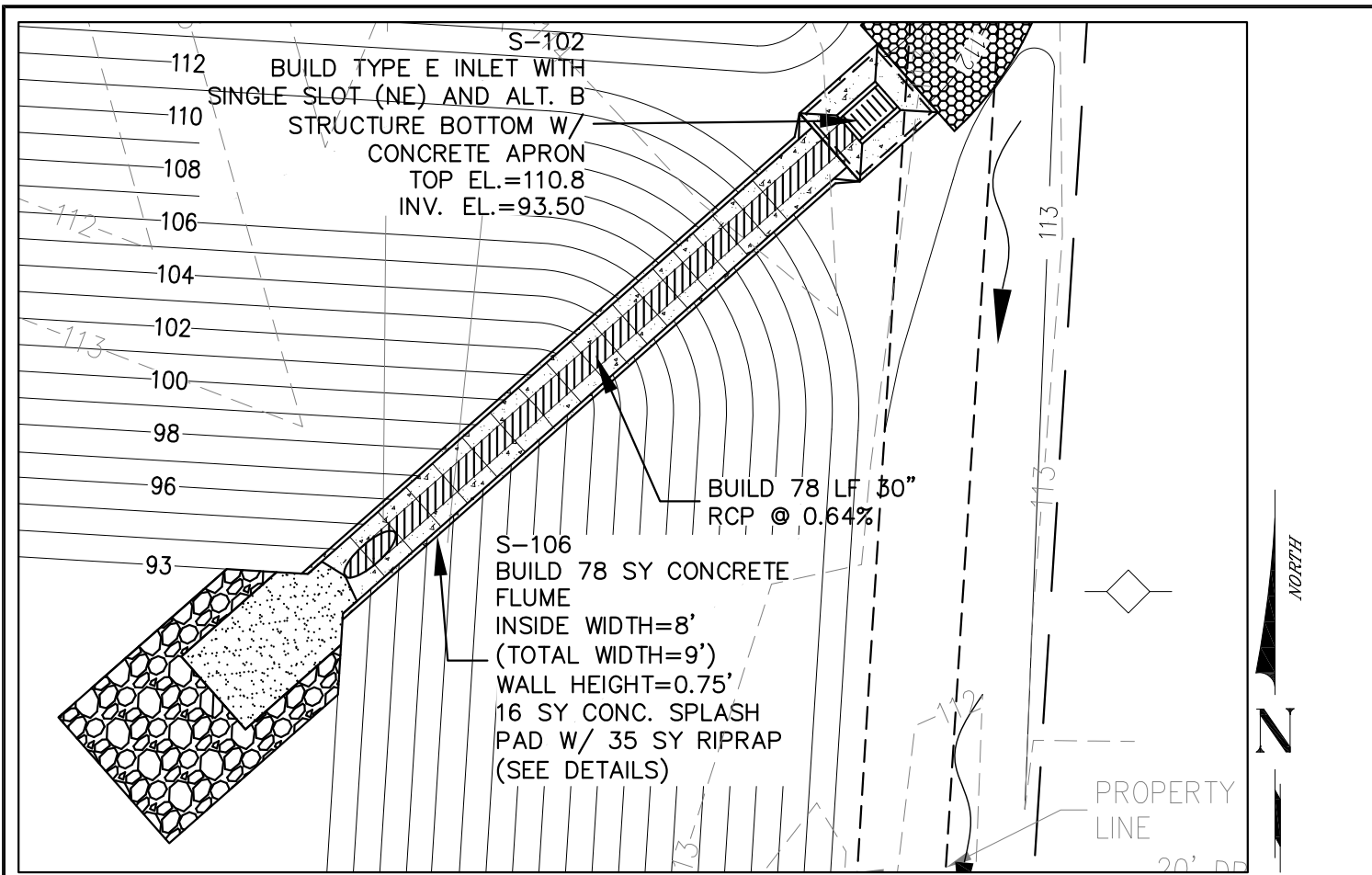
INLET S-101 DETAIL

LEGEND
TP = TOP OF PAVEMENT
TC = TOP OF CURB
FL = FLOW LINE



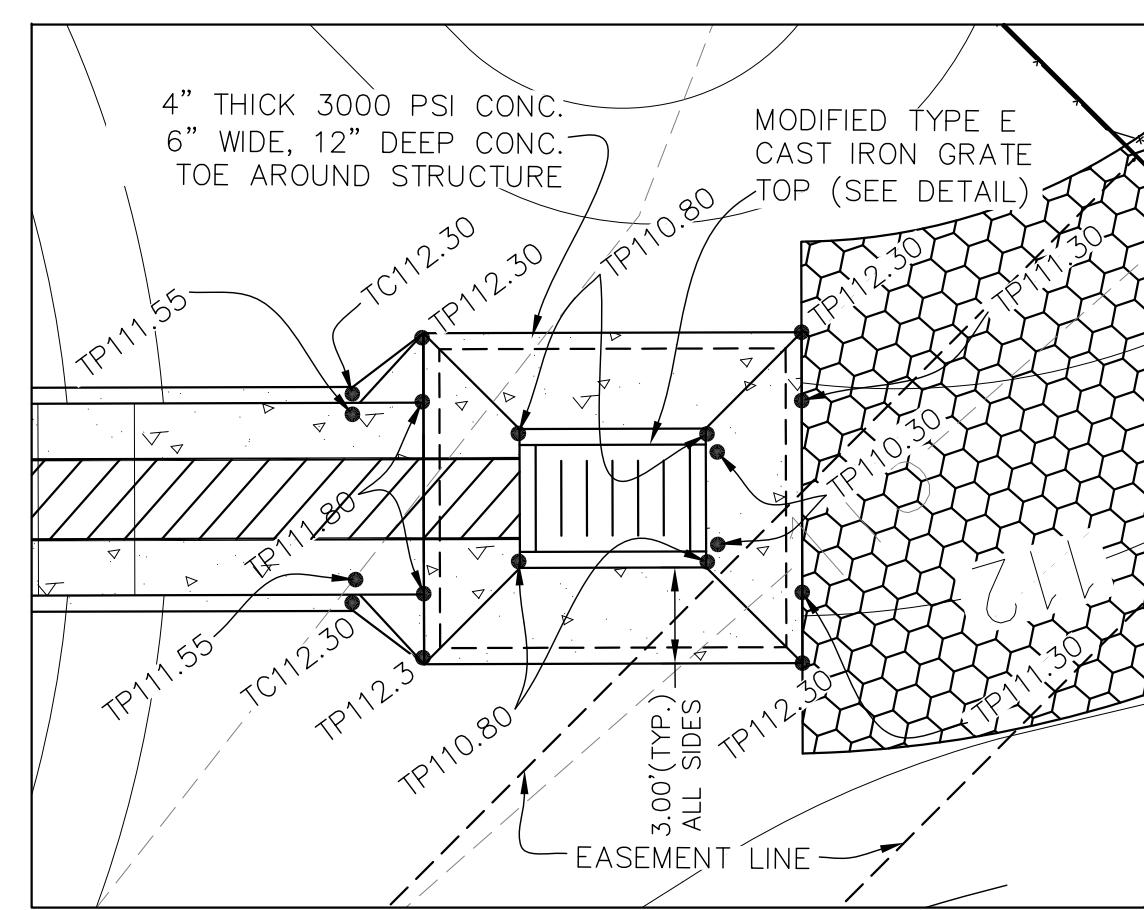
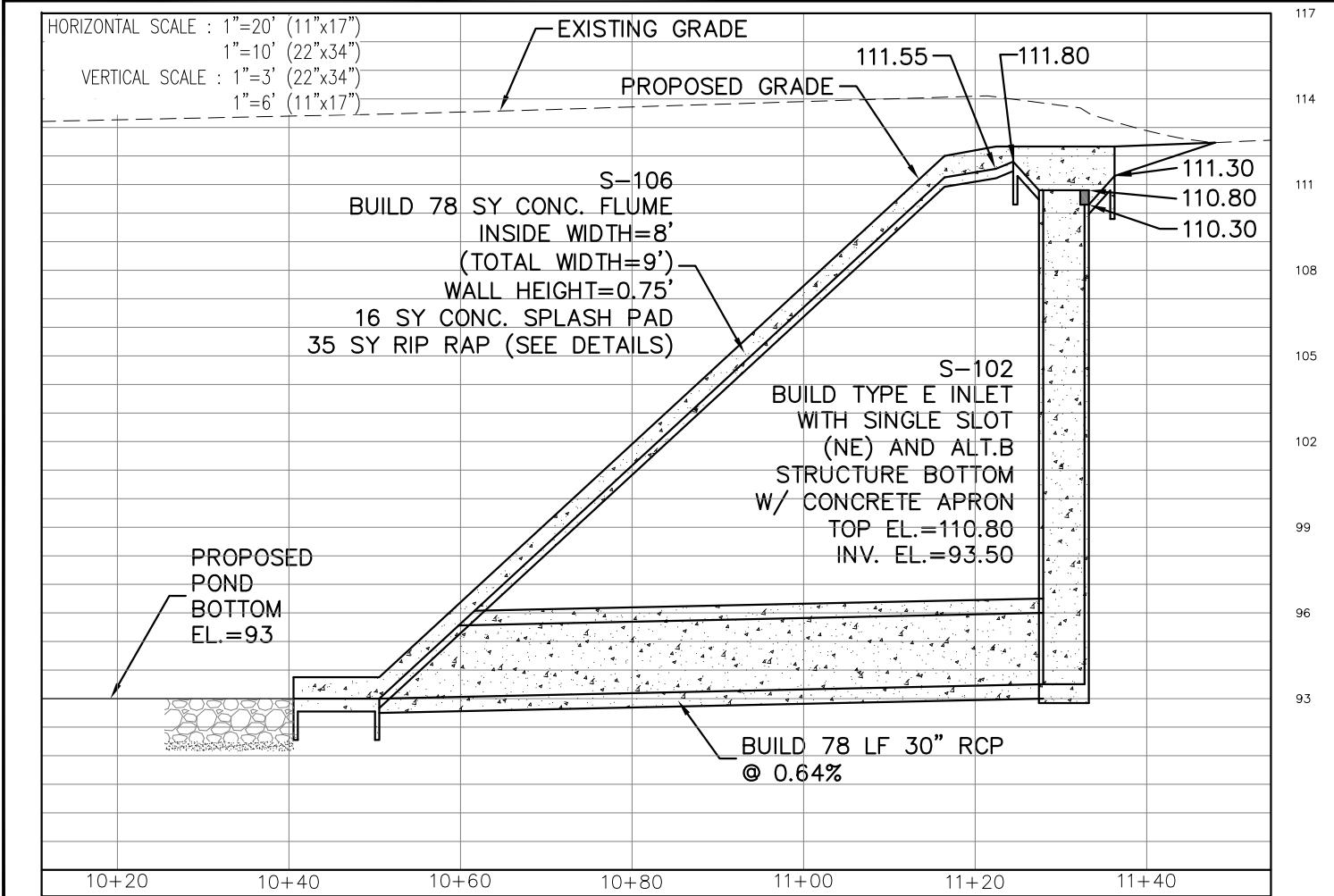
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DATE: JUNE 2016	SECTION/TOWNSHIP/RANGE 09/1S/20W	FIELD BOOK PAGES XXXXX	

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SHEET	7	OF 20



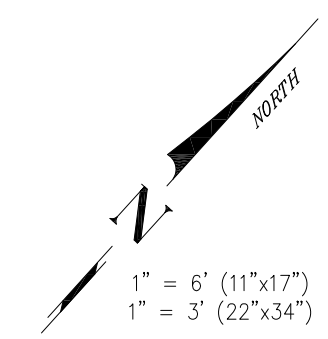
INLET S-102

1" = 20' (11"x17")
1" = 10' (22"x34")



INLET S-102 DETAIL

LEGEND
TP = TOP OF PAVEMENT
TC = TOP OF CURB
FL = FLOW LINE



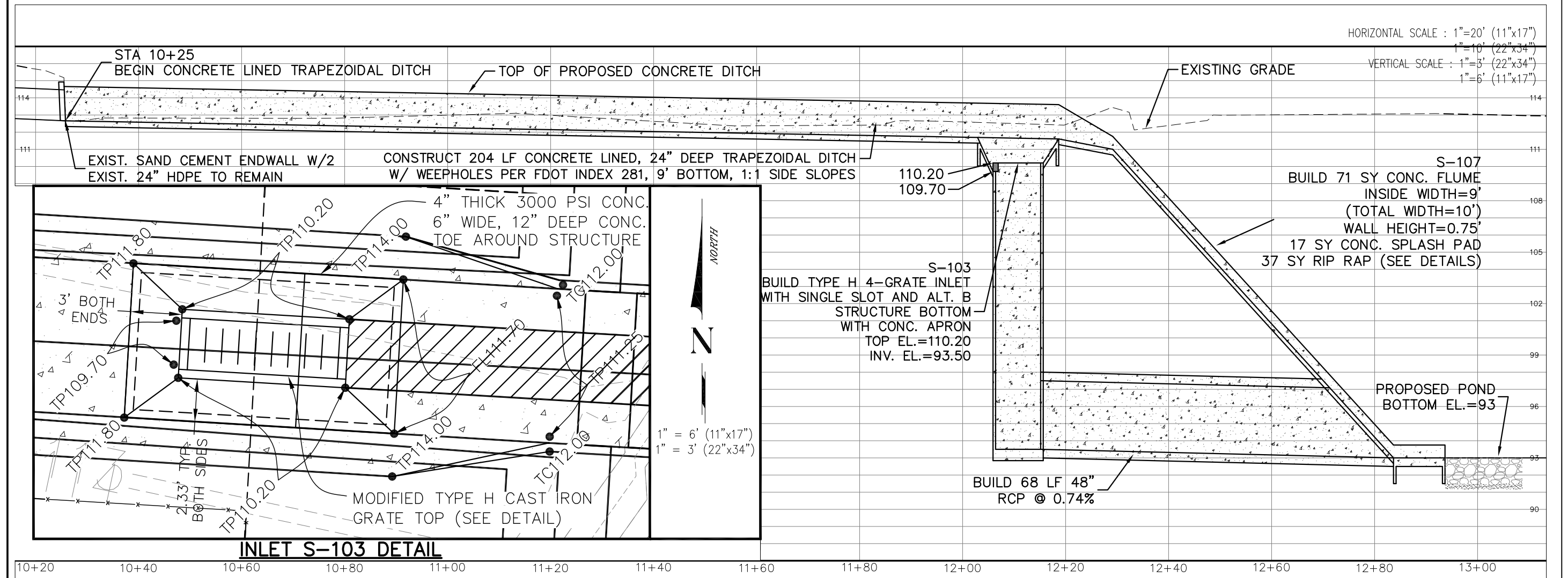
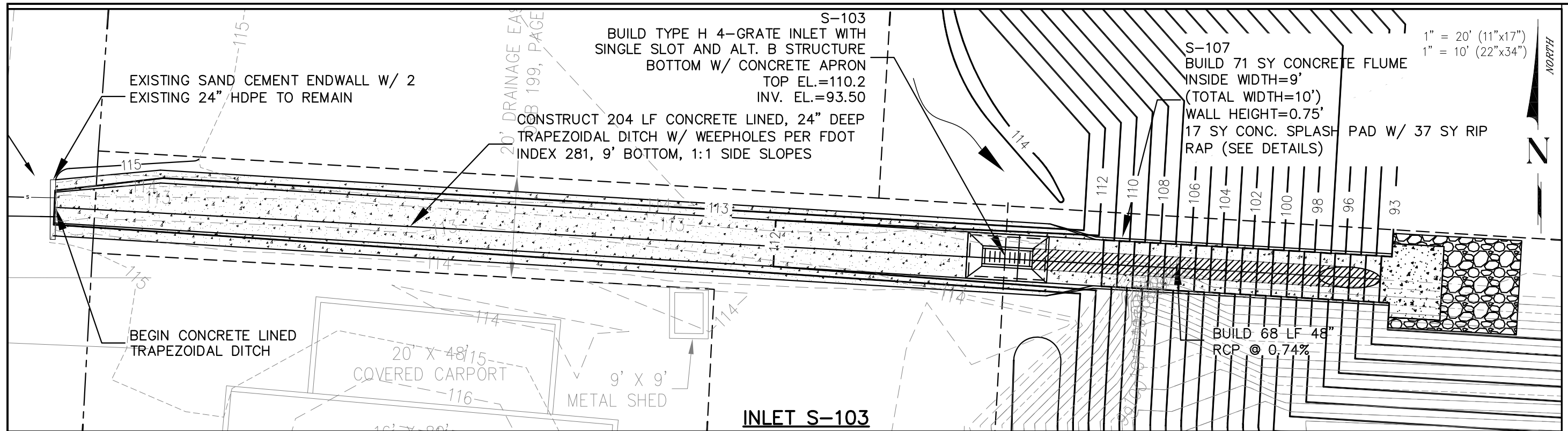
PONDEROSA DRIVE
PLAN AND PROFILE SHEET

ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

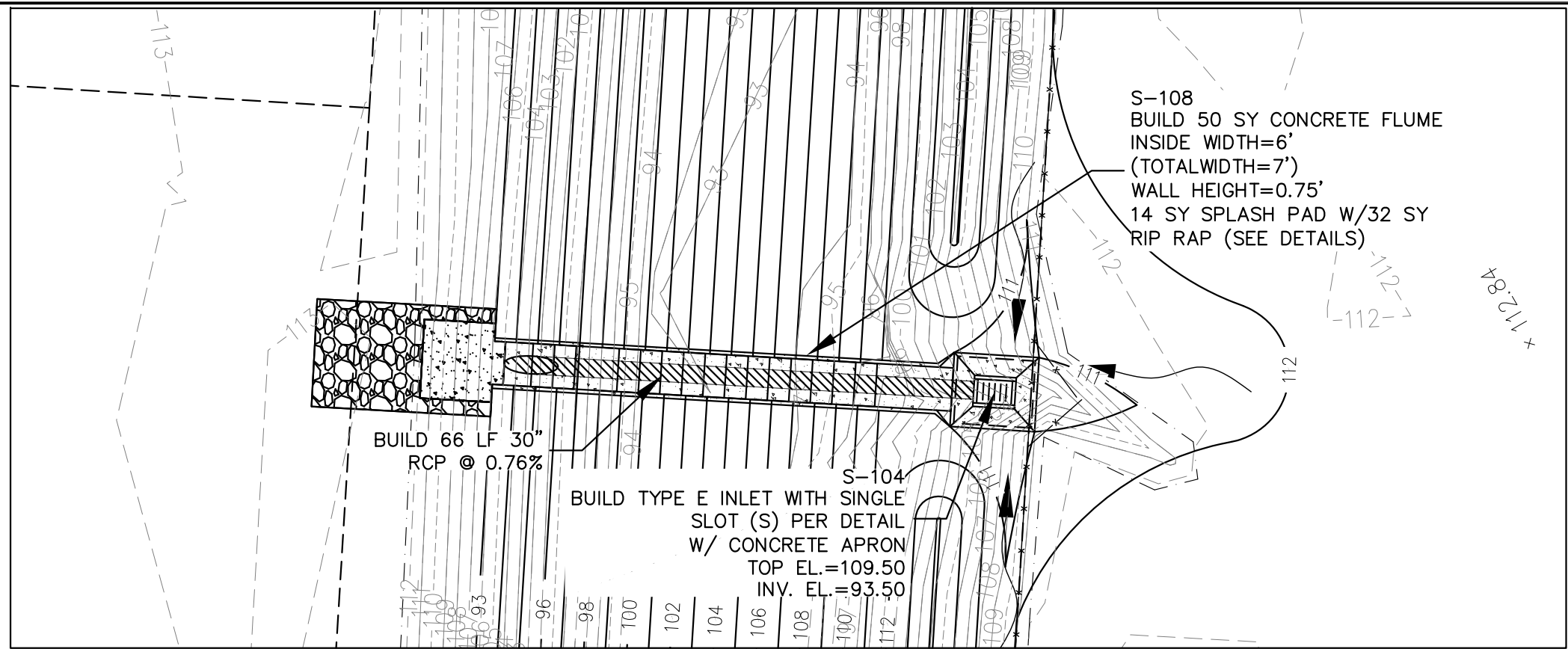
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DRAWN BY: C.GREEN	PROJECT MANAGER: NICK CHAUVIN	DISTRICT 3	SIGNATURE
DATE: JUNE 2016	SECTION/TOWNSHIP/RANGE 09/1S/20W	FIELD BOOK PAGES XXXXX	

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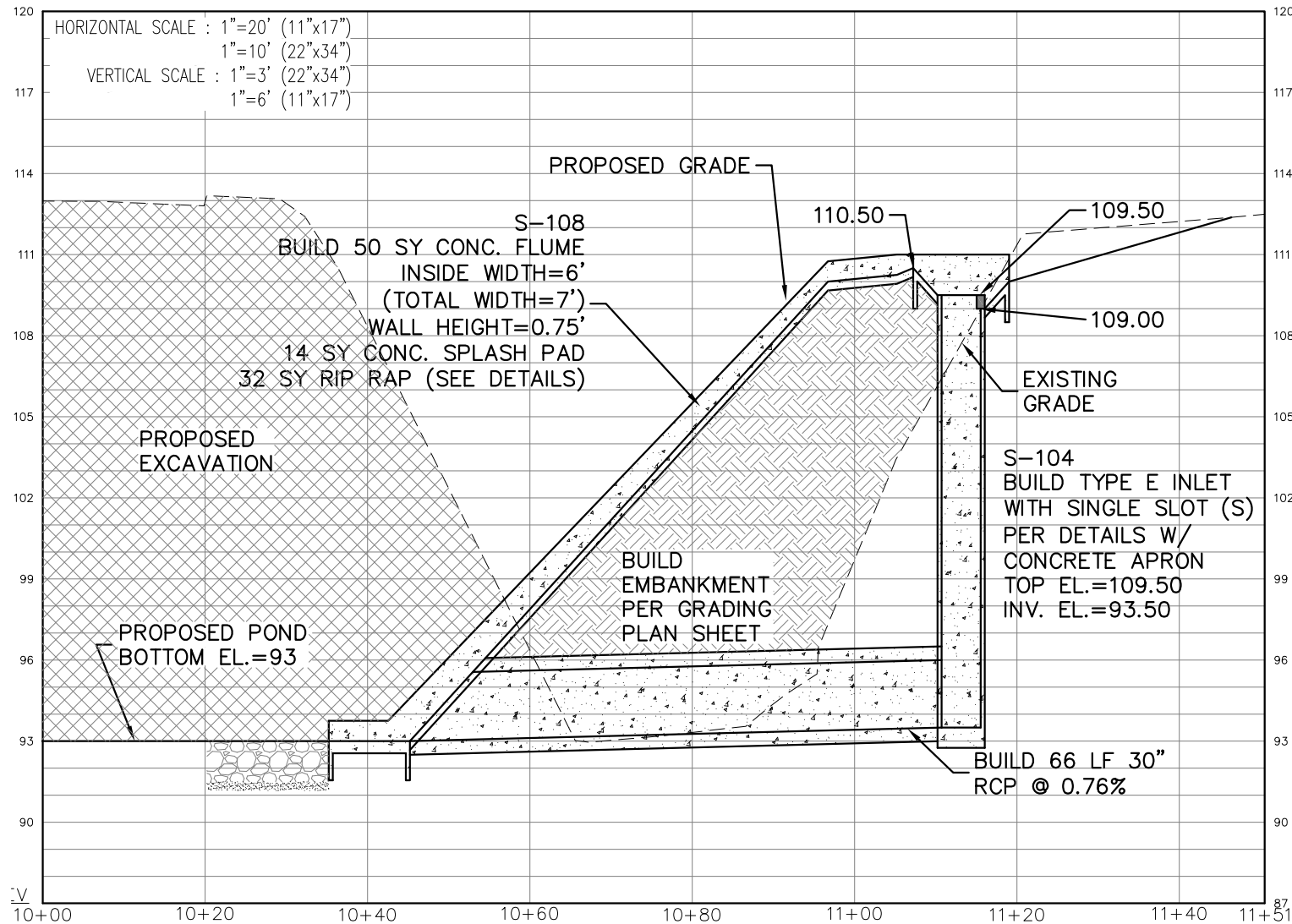
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PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	8 OF 20



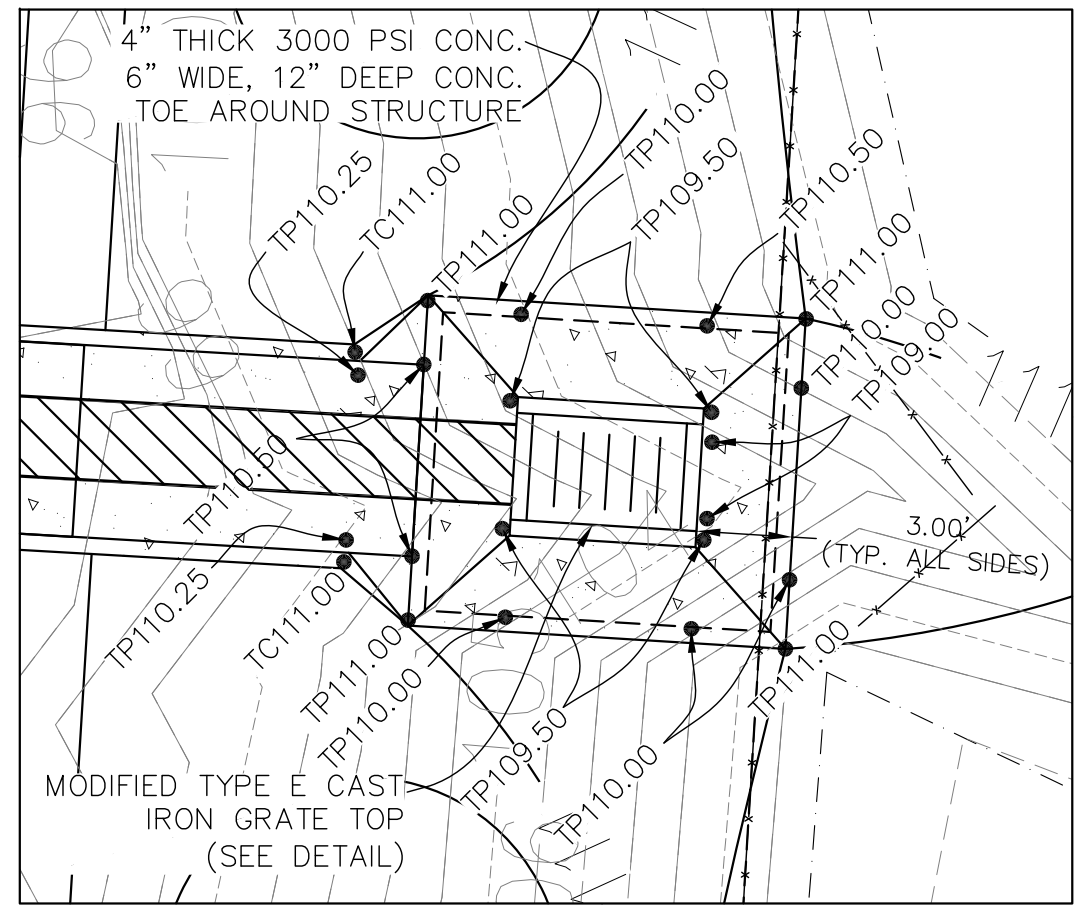
ENGINEERING DIVISION		ESCAMBIA COUNTY, FLORIDA		3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505	
DESIGNED BY:	J. KING	CHECKED BY:	NICK CHAUVIN	DISTRICT:	3
DRAWN BY:	C. GREEN	DATE:	JUNE 2016	SECTION/TOWNSHIP/RANGE:	09/1S/20W
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DRAWING NUMBER:	L-5031				
PROJECT NUMBER:	ENG1463				
SURVEY NUMBER:	20150056				
SHEET:	9 OF 20				



INLET S-104



INLET S-104 DETAIL



LEGEND
TP = TOP OF PAVEMENT
TC = TOP OF CURB
FL = FLOW LINE

PONDEROSA DRIVE
PLAN AND PROFILE



ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

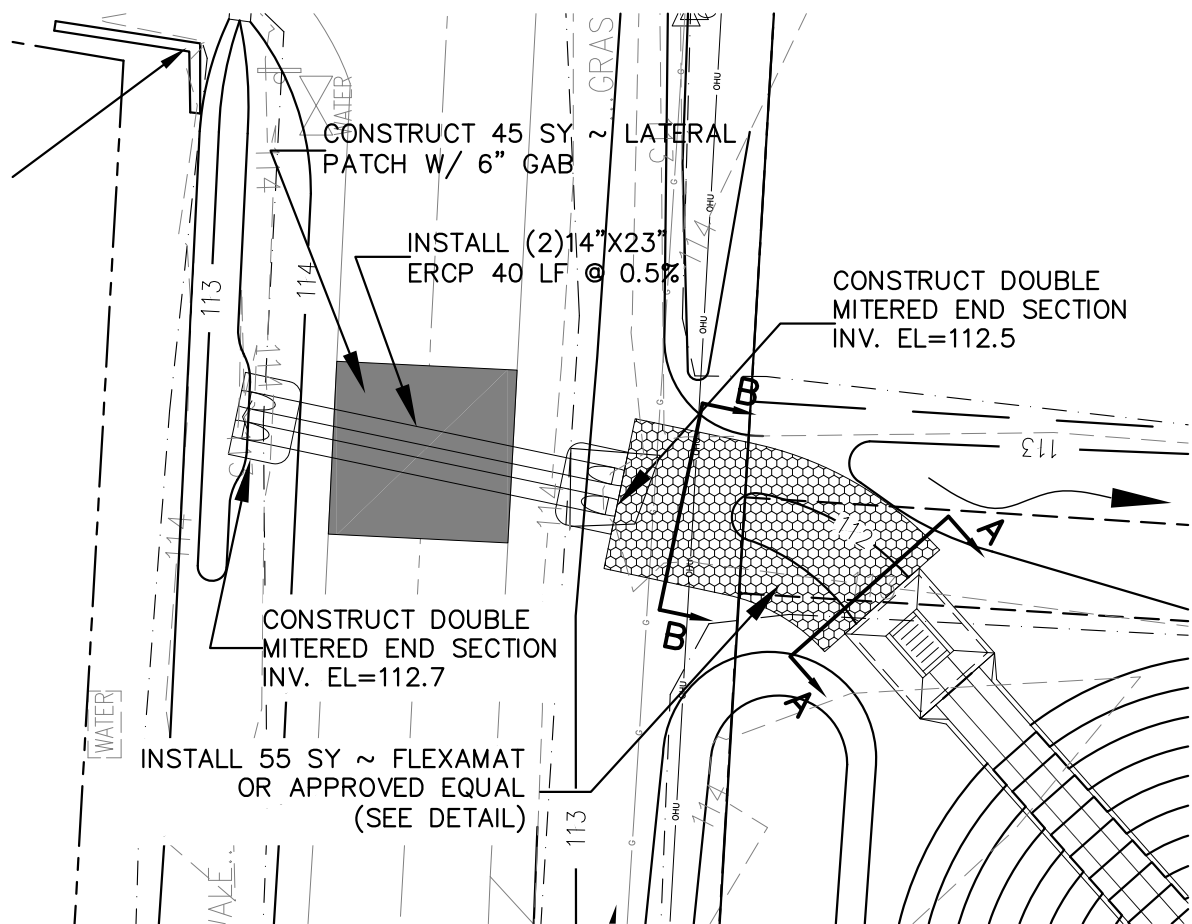
DESIGNED BY: J. KING
CHECKED BY: J. KING
DRAWN BY: C. GREEN
DATE: JUNE 2016
PROJECT MANAGER: NICK CHAUVIN
DISTRICT: 3
SECTION/TOWNSHIP/RANGE: 09 / 15 / 20W
FIELD BOOK PAGES: XXXX

REG. P.E. LIC. NO. 76144
SIGNATURE

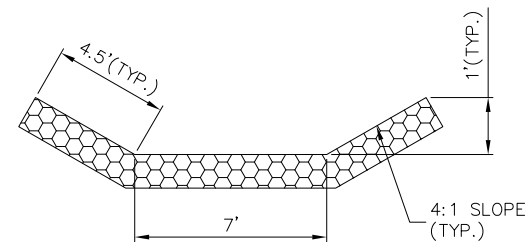
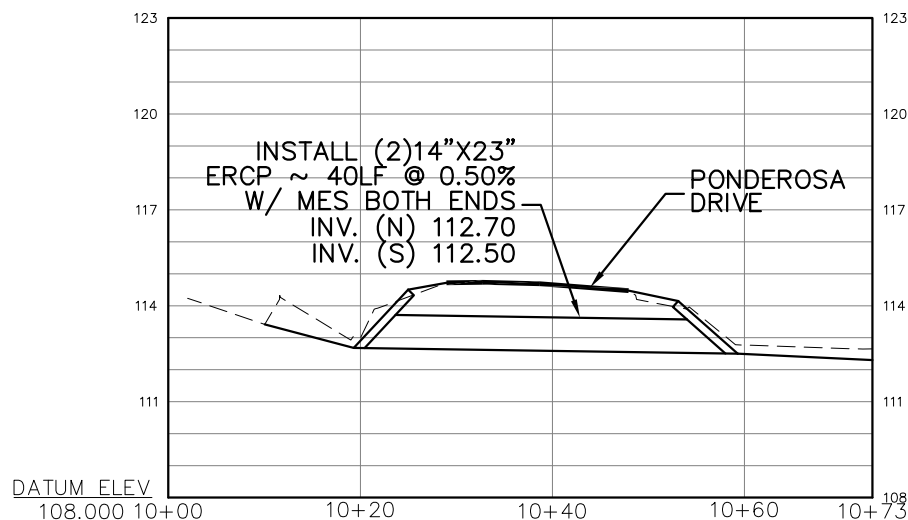
REVISION NUMBER	DATE	APPROVED BY

NORTH

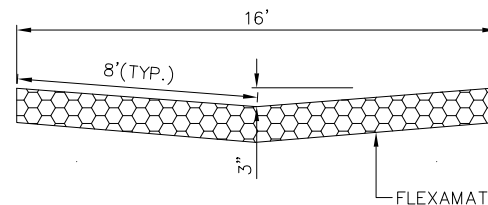
1" = 20' (11"x17")
1" = 10' (22"x34")



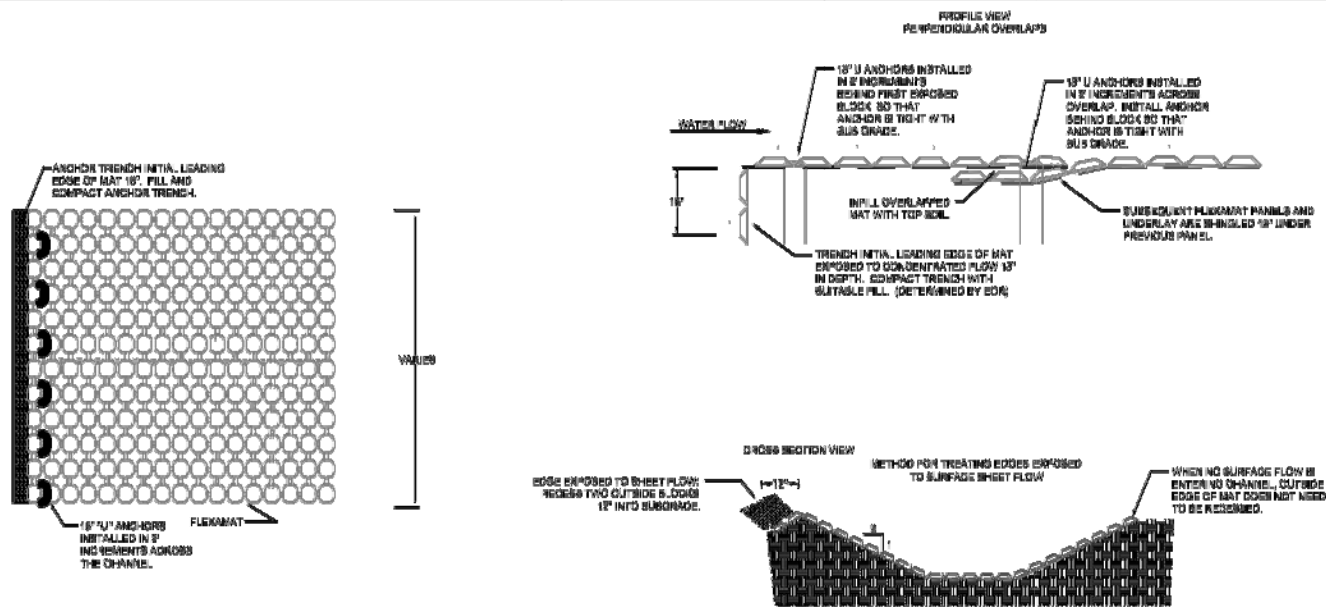
HORIZONTAL SCALE : 1"=20' (11"x17")
1"=10' (22"x34")
VERTICAL SCALE : 1"=4' (22"x34")
1"=2' (11"x17")



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



CONSTRUCTION NOTES

- GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
- APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
- INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 8', 10', 12', & 18' AVAILABLE IN CUSTOM LENGTHS. FOR WIDER WIDTHS, INSTALL MATS ADJACENT TO EACH OTHER. (CONTACT MANUFACTURER FOR DETAIL ADDRESSING LONGITUDINAL BEAMS.)
- AT THE TOP OF THE CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY BOR).
- FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.0" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
- INSTALL 18" U-ANCHORS IN 2" INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
- AT THE END OF THE ANCHORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL. (DETERMINED BY BOR)

FLEXAMAT INFORMATION

Manufacturer: Motz Enterprises, Inc.
Product Name: Flexamat®
Address: 3183 Madison Road
Cincinnati, Ohio 45209
813-773-MOTZ (6889)
513-773-8990

Telephones:
Fax:
Contact: Matt Motz
Email: Matt@Flexamat.com
Website: www.Flexamat.com

FLEXAMAT® CHANNEL DETAIL

**PONDEROSA DRIVE
PLAND AND PROFILE**

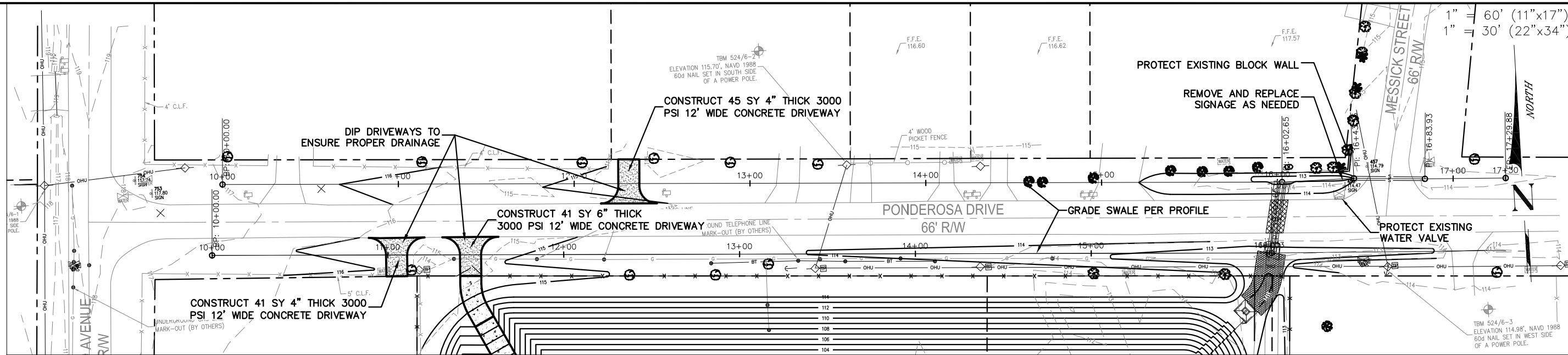


ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY:	CHECKED BY:	REG. E.A. ING. NO.	DATE:
C.GREEN	J.KING	76144	
PROJECT MANAGER:	DISTRICT:		SIGNATURE:
NICK CHAUVIN	3		
SECTION TOWNSHIP RANGE:	FIELD BOOK PAGES:		
09-15-20W	XXXXX		

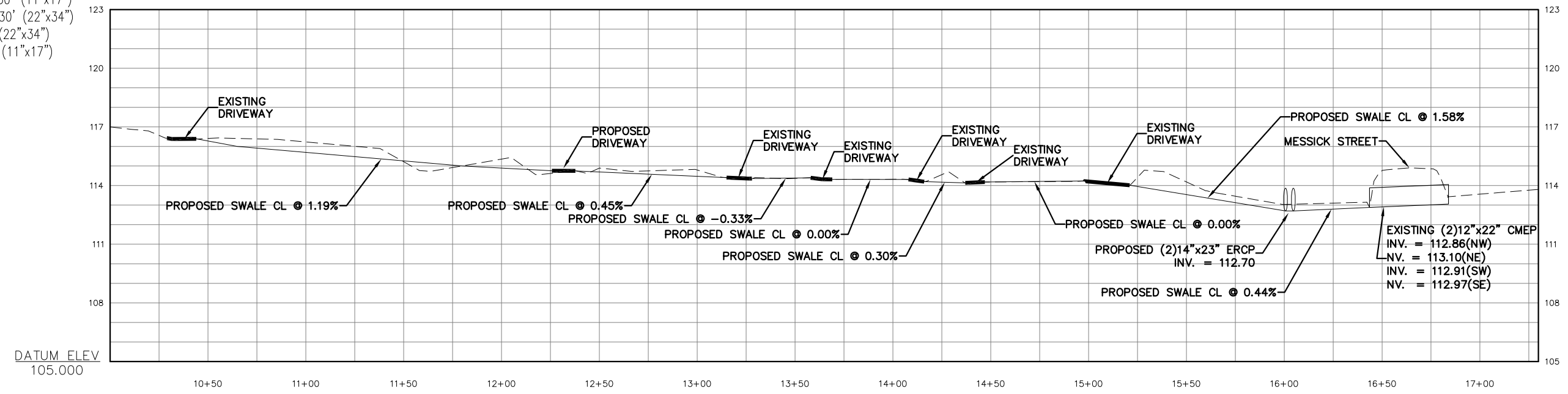
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DRAWING NUMBER:	L-5031
PROJECT NUMBER:	ENG1463
SURVEY NUMBER:	20150056
SHEET	11 OF 20

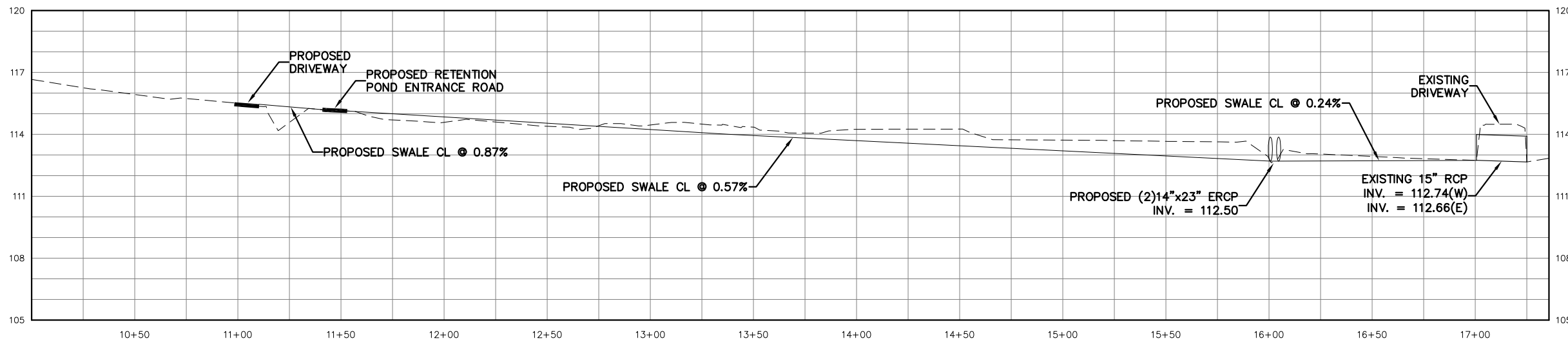


PONDEROSA DRIVE PLAN VIEW

HORIZONTAL SCALE : 1"=60' (11"x17")
 1"=30' (22"x34")
 VERTICAL SCALE : 1"=3' (22"x34")
 1"=6' (11"x17")



NORTH SWALE PROFILE



SOUTH SWALE PROFILE

**PONDEROSA DRIVE
 PLAN & PROFILE**

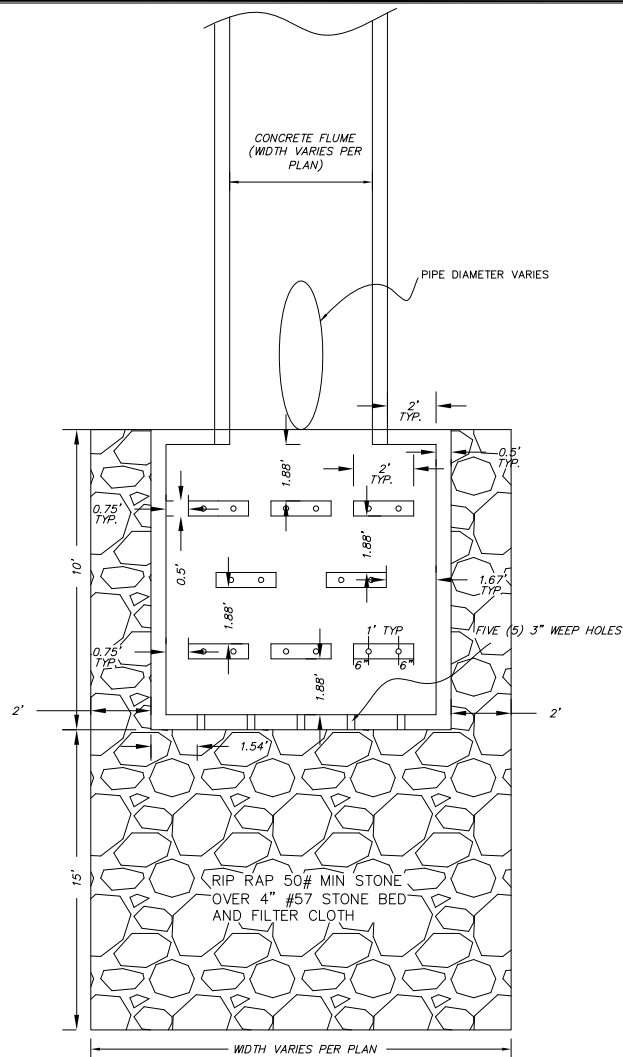


ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

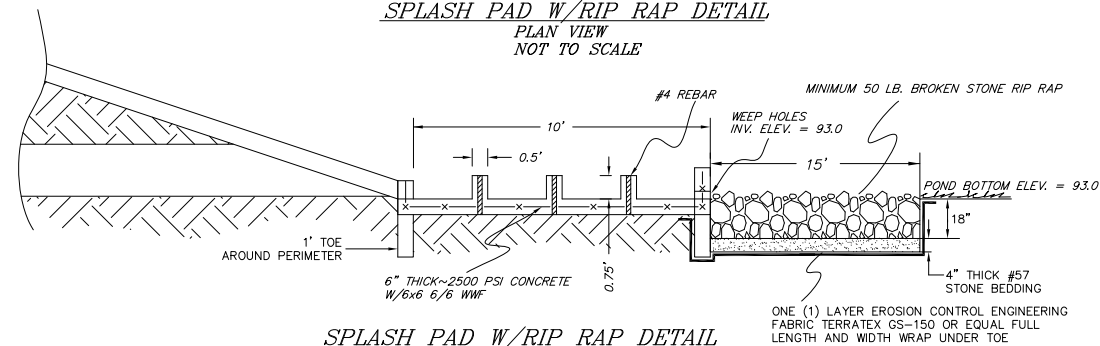
DESIGNED BY: C.GREEN	CHECKED BY: J.KING	DATE: 7/6/14
DRAWN BY: C.GREEN	PROJECT MANAGER: NICK CHAVIN	DISTRICT: 5
DATE: JUNE 2016	SECTION/TOWNSHIP/RANGE: 09 / 7 S / 04 W	SIGNATURE: XXXXX

REVISIONS	DATE	APPROVED BY

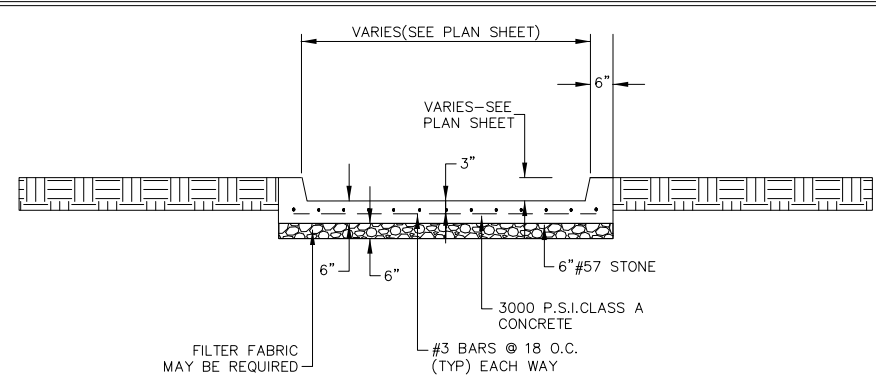
DRAWING NUMBER	L-5031
PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	12 OF 20



SPLASH PAD W/RIP RAP DETAIL
PLAN VIEW
NOT TO SCALE



SPLASH PAD W/RIP RAP DETAIL
X-SECTION VIEW
NOT TO SCALE

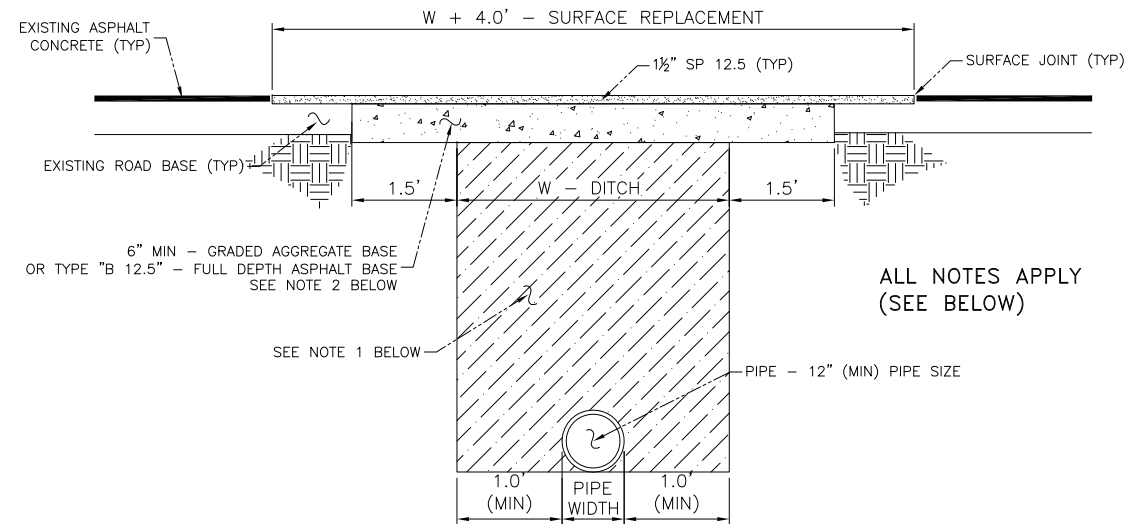


NOTE:

1. THE HEIGHT OF CURB AND WIDTH OF FLUME VARIES WITH FLUME LOCATION. SEE PLAN SHEETS FOR EXACT FLUME CONFIGURATION.

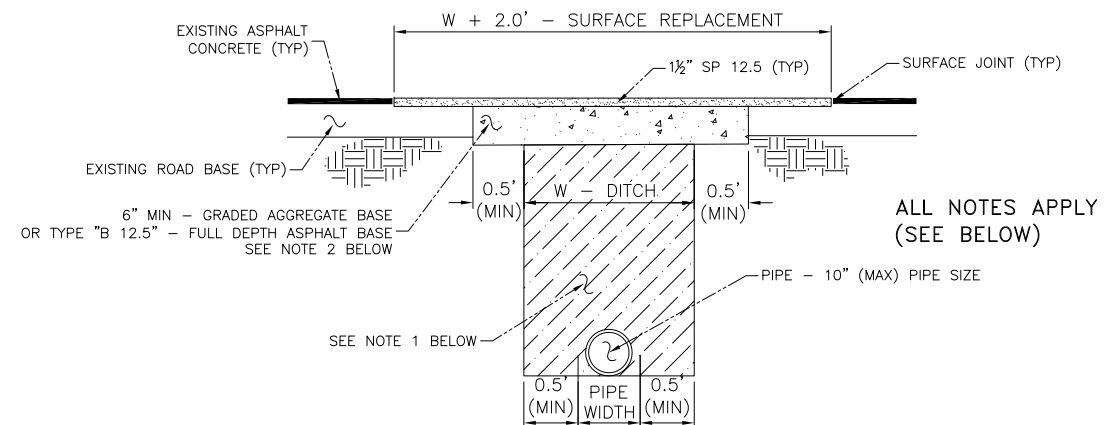
CONCRETE FLUME
PLAN VIEW NOT TO SCALE

ESCAMBIA COUNTY PATCH DETAILS



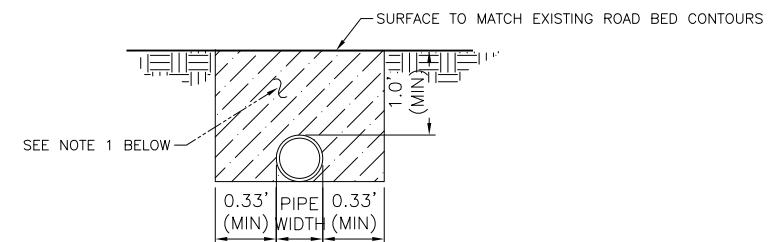
PAVED ROAD (LARGE PATCH) DETAIL
FOR PATCHES 24" WIDE OR GREATER

NOT TO SCALE



PAVED ROAD (SMALL PATCH) DETAIL
FOR PATCHES LESS THAN 24" WIDE

NOT TO SCALE



DIRT ROAD PATCH DETAIL

NOT TO SCALE

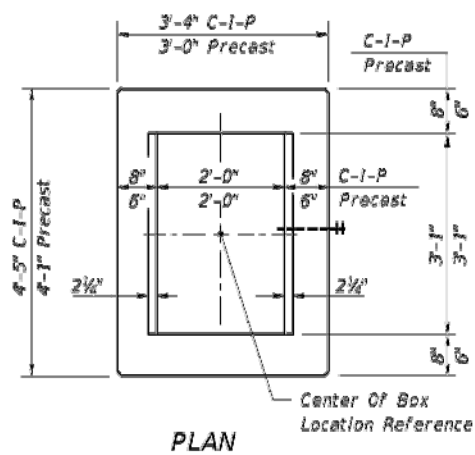
NOTES:

1. DIRT ROAD PATCH WORK SUB BASE MATERIAL SHALL BE PLACED IN NOT MORE THAN 8" LIFTS. EACH LAYER TO BE TAMPED TO A MINIMUM OF 40 LBR.
2. GRADED AGGREGATE BASE SHALL BE COMPACTED TO A MIN LBR 100.
3. ROAD CUTS SHALL BE MECHANICALLY SAW CUT TO FORM A SURFACE PAVEMENT JOINT AND TACK COATED ALONG THE FACE OF CUT JOINTS PRIOR TO ASPHALT PLACEMENT.
4. LONGITUDINAL ROAD CUTS THAT AFFECT ONE TRAVEL LANE SHALL REQUIRE MILLING AND REPAVING OF THE AFFECTED TRAVEL LANE 5.0' BEYOND THE CUT AND PATCHED WITH THE SAME BASE MATERIAL. LONGITUDINAL ROAD CUTS THAT AFFECT BOTH TRAVEL LANES SHALL REQUIRE MILLING AND REPAVING OF THE ENTIRE ROADWAY 5.0' BEYOND THE CUT AND PATCHED WITH THE SAME BASE MATERIAL.

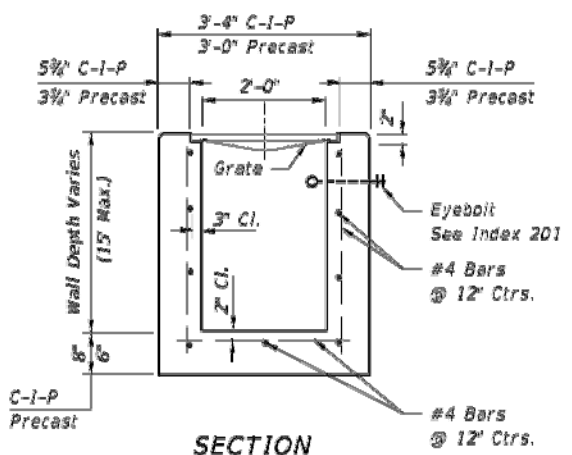


DESIGNED BY: CGREEN	CHECKED BY: J. KING	DATE: 7/6/14
DRAWN BY: CGREEN	PROJECT MANAGER: NICK CHAUVIN	DISTRICT: 3
DATE: JUNE 2016	SECTION/TOWNSHIP/RANGE: 09/1S/20W	SIGNATURE: XXXXX

REVISION NUMBER	DATE	APPROVED BY



PLAN



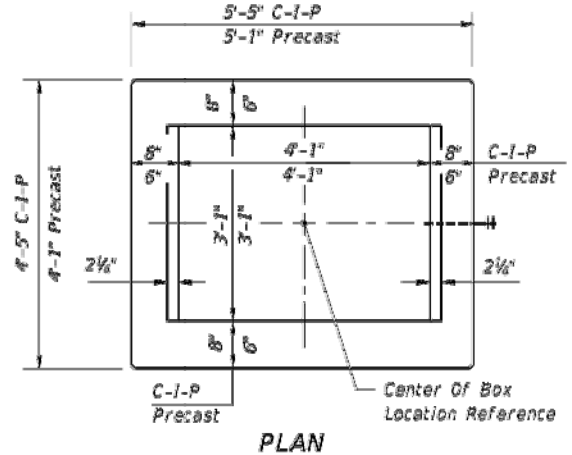
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HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

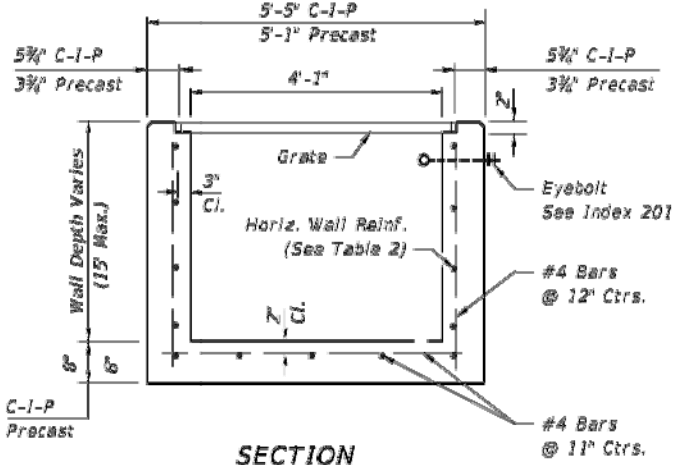
WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0'-15'	A12	0.20	12"	8"

TYPE C

Recommended Maximum Pipe Size:
 2'-0" Wall - 18" Pipe
 3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)



PLAN



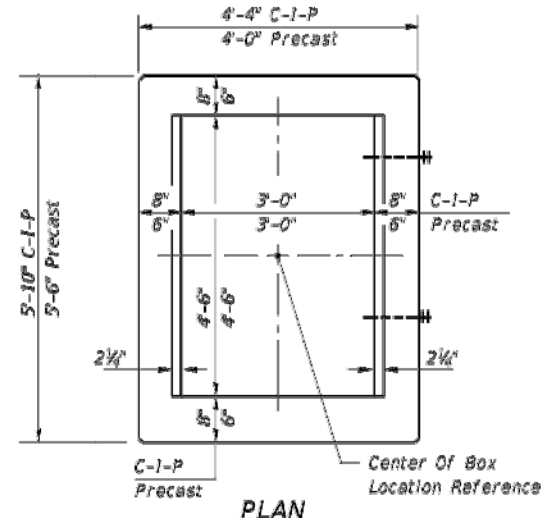
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HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2)

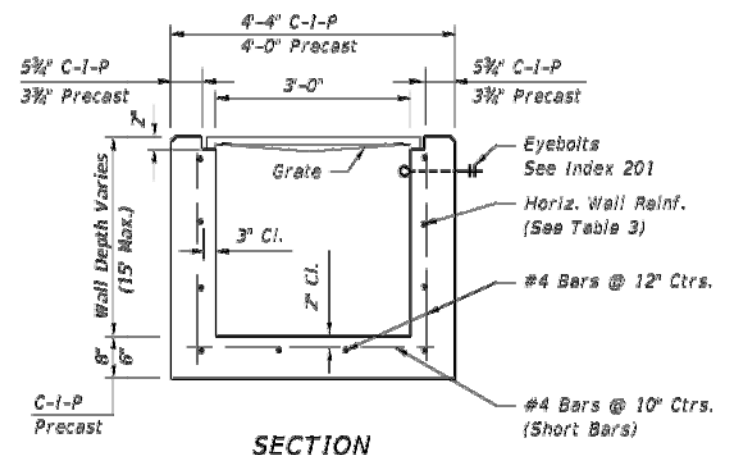
WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0'-6'	A12	0.20	12"	8"
6'-10'	A6	0.20	6"	5"
10'-13'	A4	0.20	4"	3"
10'-15'	B5.5	0.24	5 1/2"	5"

TYPE D

Recommended Maximum Pipe Size:
 3'-1" Wall - 24" Pipe
 4'-1" Wall - 36" Pipe



PLAN



SECTION

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0'-5'	A12	0.20	12"	8"
0'-7.5'	A6	0.20	6"	5"
7.5'-10'	B5.5	0.24	5 1/2"	5"
10'-15'	C6.5	0.37	6 1/2"	6"

TYPE E

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4'-6" Wall - 36" Pipe

12/07/2015 06:30:27 AM

LAST REVISION	DESCRIPTION:
07/01/05	

FY 2016-17

 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES C, D, E AND H

INDEX NO.	SHEET NO.
232	1 of 7

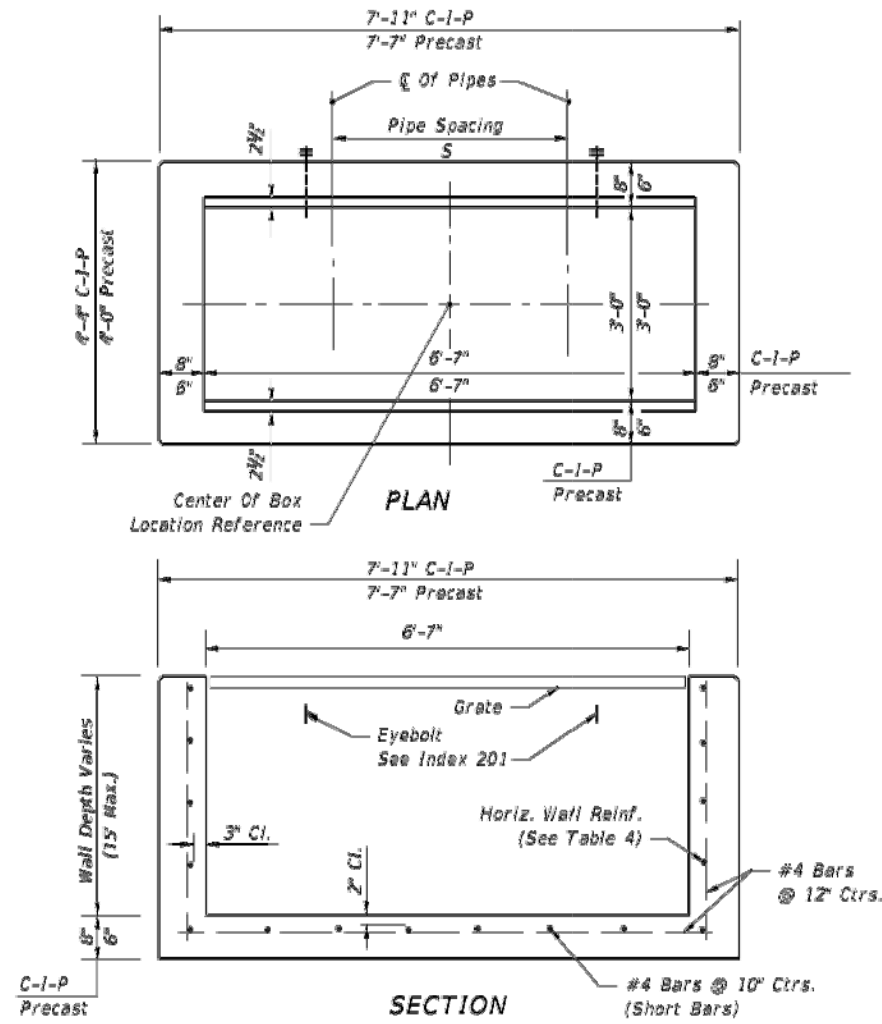
PONDEROSA DRIVE
 DETAILS

ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY: CGREEN	CHECKED BY: J. KING	REG. P.E. NO.: 76144	DATE:
DRAWN BY: CGREEN	PROJECT MANAGER: NICK CHAUVIN	DISTRICT: 3	SIGNATURE:
DATE: JUNE 2016	SECTION/TOWNSHIP/RANGE:	FIELD BOOK PAGES: XXXX	

REVISION	DATE	APPROVAL

DRAWING NUMBER: L-5031
PROJECT NUMBER: ENG1463
SURVEY NUMBER: 20150056
SHEET: 14 OF 20

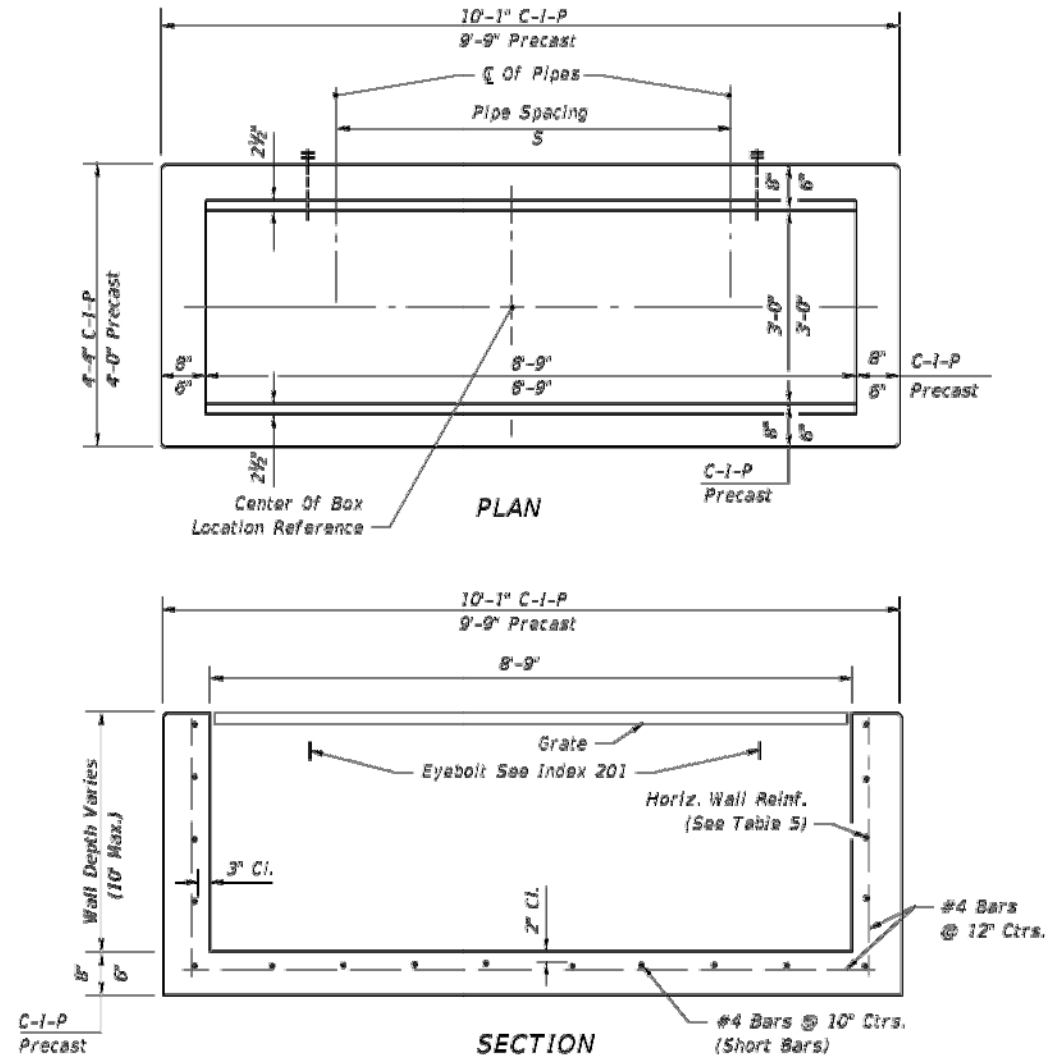


HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BAR	WWF
0'-5'	B5.5	0.24	5 1/2"	5"
5'-7'	C6.5	0.37	6 1/2"	6"
7'-13'	D4.5	0.53	4 1/2"	4"

TYPE H (2 & 3-GRATE INLET)

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 6'-7" Wall - 1-60" Pipe
 Or 2-24" Pipe (S=3'-5")



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 5)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BAR	WWF
0'-5'	C3.5	0.37	3 1/2"	3"
5'-10'	D4.5	0.53	4 1/2"	4"

TYPE H (4-GRATE INLET)

Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 8'-9" Wall - 1-78" Pipe
 Or 2-30" Pipe (S=4'-3")

GENERAL NOTES
 See Sheet 3 of 7.

12/29/2015 10:03:27 AM

LAST REVISION
07/01/05

DESCRIPTION:

FDOT FY 2016-17 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES C, D, E AND H

INDEX NO.
232

SHEET NO.
2 of 7

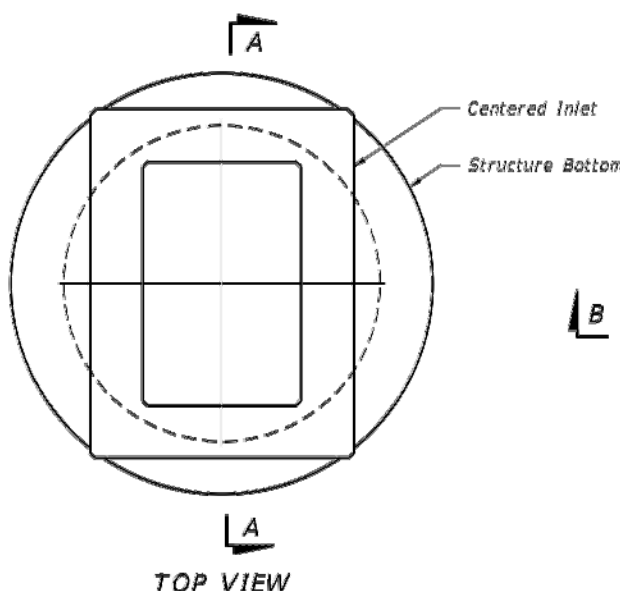


ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

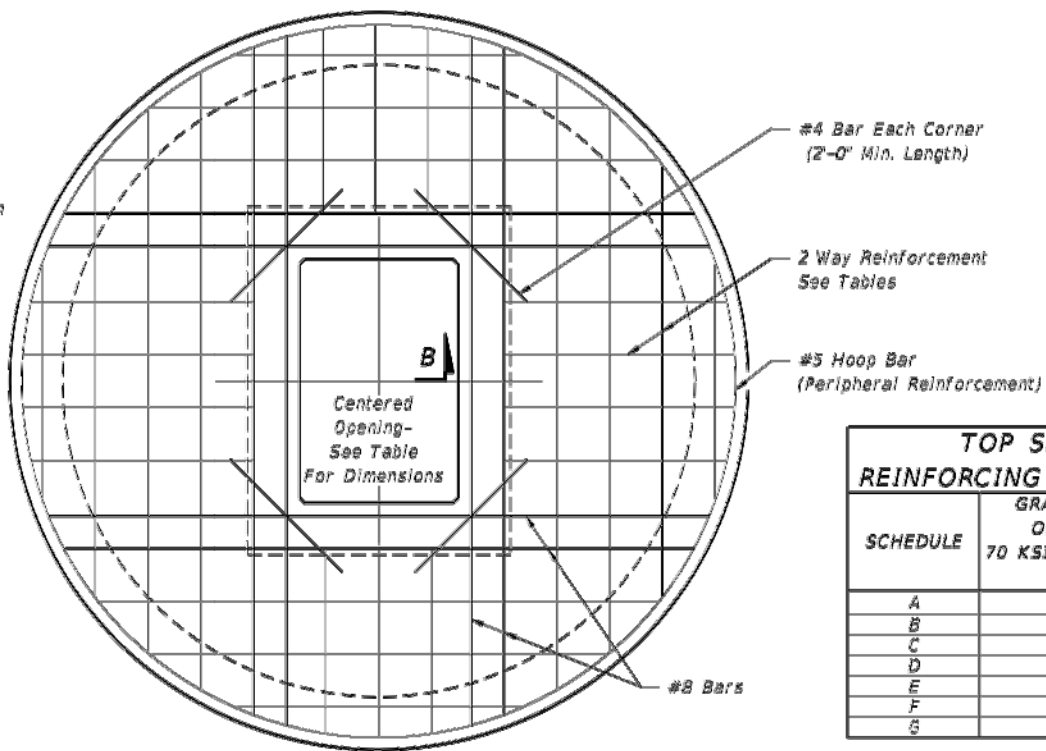
DESIGNED BY: J. KING
 CHECKED BY: NICK CHAUVIN
 PROJECT MANAGER: NICK CHAUVIN
 DISTRICT: 3
 REG. E.A. ENG. NO.: 76144
 DATE: JUNE 2016
 SECTION/TOWNSHIP/RANGE: 09/1S/20W
 FIELD BOOK PAGES: XXXX

REVISION NUMBER	DATE	APPROVAL

DRAWING NUMBER: L-5031
 PROJECT NUMBER: ENG1463
 SURVEY NUMBER: 20150056
 SHEET: 15 OF 20



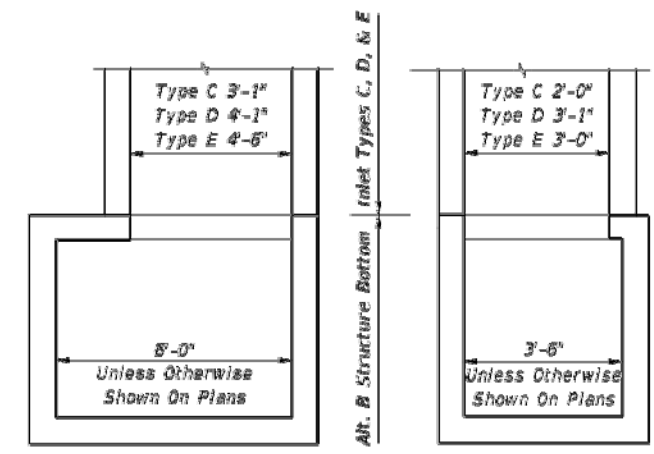
TOP SLAB OPENINGS		
DIAMETER	OPENING SIZE	
	MIN.	MAX.
4'-0"	2'-0" x 3'-1"	2'-0" x 3'-1"
5'-0"	2'-0" x 3'-1"	3'-1" x 4'-1"
6'-0"	2'-0" x 3'-1"	3'-0" x 4'-6"
8'-0"	2'-0" x 3'-1"	3'-0" x 4'-6"



TOP SLAB REINFORCING DIAGRAM

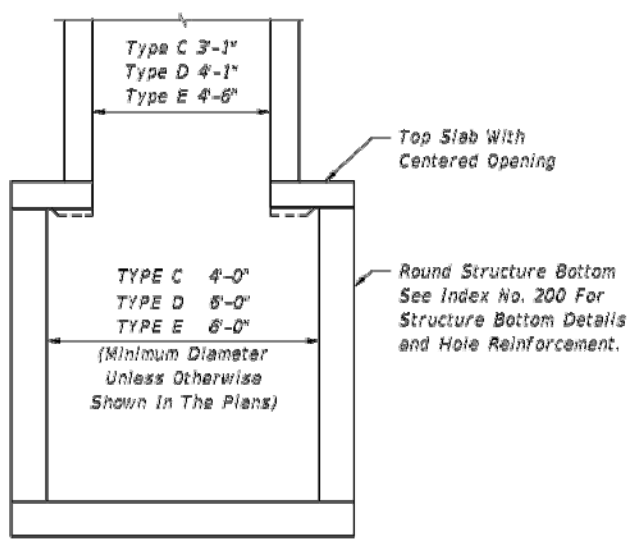
TOP SLAB REINFORCING SCHEDULE	
SCHEDULE	GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE FABRIC) In./ft.
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TOP SLAB WITH CENTERED OPENING		
SLAB DEPTH	SLAB THICKNESS	REINFORCING (2 WAYS) SCHEDULE
SIZE: 4'-0"		
≥0.5'-4'	9 1/2"	C
SIZE: 5'-0"		
0.5' < 3'	9 1/2"	C
3'-4'	9 1/2"	D
SIZE: 6'-0"		
0.5' < 8'	9 1/2"	B
8' < 18'	9 1/2"	C
18' < 30'	9 1/2"	D
30' < 37'	9 1/2"	E
37'-40'	9 1/2"	G
SIZE: 8'-0"		
≥0.5' < 9'	11 1/2"	C
9' < 15'	11 1/2"	D
15' < 23'	11 1/2"	E
23' < 33'	11 1/2"	E
33'-40'	11 1/2"	G

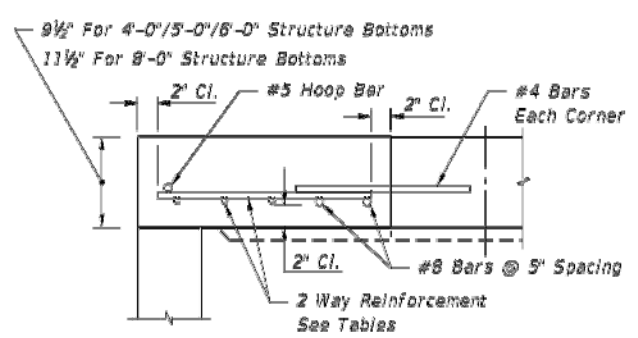


See Index No. 200 for structure bottom details and hole reinforcement.

ALT. B STRUCTURE BOTTOM FOR INLETS TYPE C, D & E

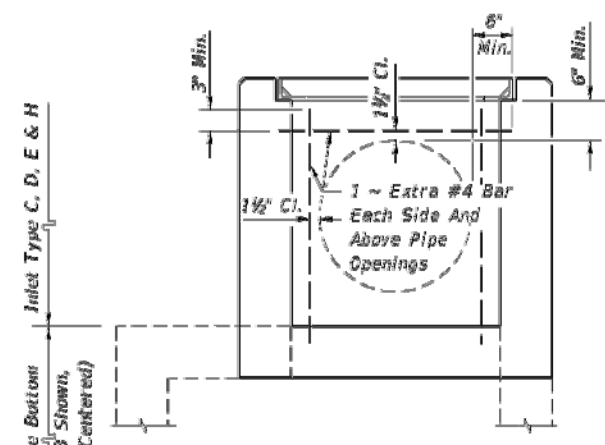


SECTION AA



SECTION BB

ALT. A STRUCTURE BOTTOM FOR INLETS TYPE C, D AND E



PIPE OPENING SCHEMATIC

12/31/2015 16:33:42 AR

LAST REVISION	DESCRIPTION:
07/01/05	

REVISION	DESCRIPTION:

FDOT FY 2016-17 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES C, D, E AND H

INDEX NO. 232

SHEET NO. 7 of 7

PONDEROSA DRIVE
DETAILS



ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505
REG. FLA. ENG. NO. 76144
DATE: JUNE 2016
PROJECT MANAGER: NICK CHAUVIN
DISTRICT: 3
SECTION: TOWNSHIP RANGE
FIELD BOOK PAGES: XXXX
09/15/20XX

REVISION	DATE	APPROVED

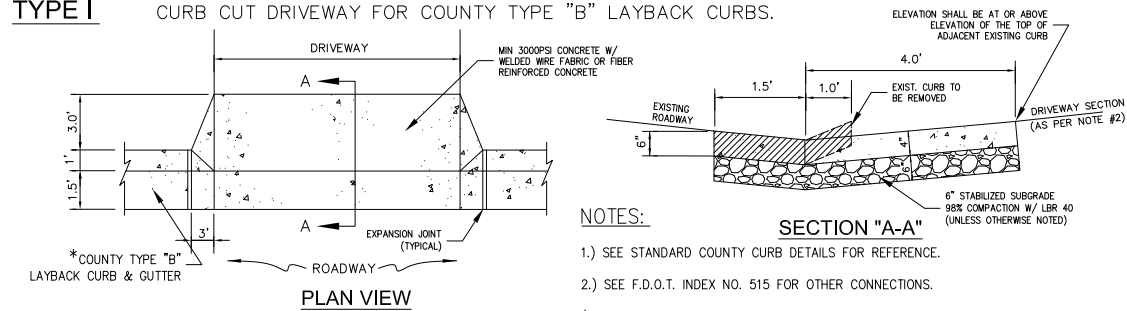
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PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	16 OF 20

NOTES:

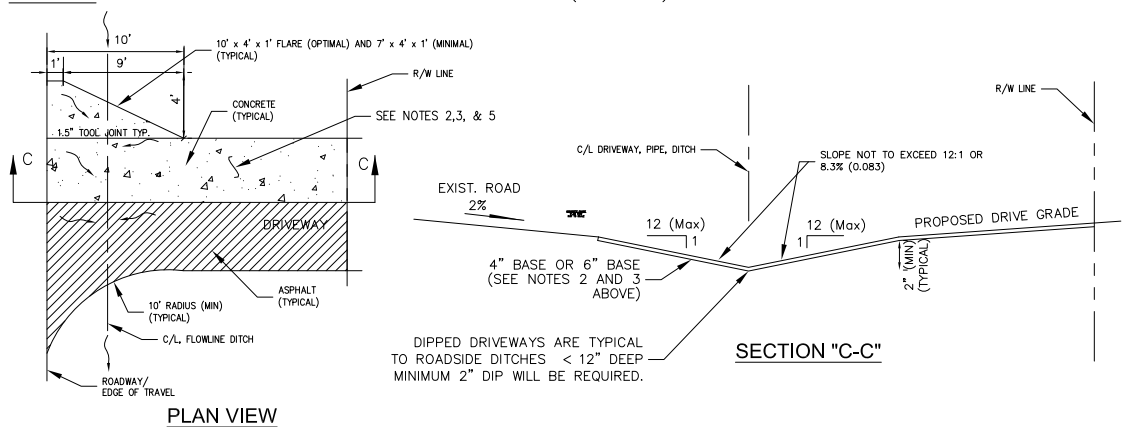
- 1) ALL MATERIALS AND LABOR FOR INSTALLATION WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER/CONTRACTOR.
- 2) RESIDENTIAL DRIVEWAYS ABUTTING PAVED ROADS SHALL BE 1 - 1/2" ASPHALT WITH 6" STABILIZED SUB GRADE OR 4" CONCRETE WITH 6" STABILIZED SUB GRADE - 98% COMPACTION (MODIFIED PROCTOR) WITH LBR 40 BETWEEN EDGE OF ROADWAY AND R/W LINE. COMPACTION AND TESTING IF NECESSARY, THIS WILL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.
- 3) DRIVEWAYS ABUTTING A DIRT ROAD SHALL BE MILLED ASPHALT, GRADED AGGREGATE BASE, OR WASHED CONCRETE (4" IN DEPTH) ON THE COUNTY MAINTAINED PORTION OF DRIVEWAY.
- 4) IF NECESSARY, REFER TO FDOT INDEX DETAILS AS REFERENCED BELOW.
- 5) RADIUS OR FLARE IS REQUIRED FOR TYPE II OR TYPE III CONNECTIONS. SEE DETAIL.
- 6) PARKING SPACES WITHIN COUNTY RIGHT-OF-WAY SHALL PROVIDE A MINIMUM OF 2 PARKING SPACES.
- 7) TYPICAL DRIVEWAY SECTIONS ARE TO BE 12' WIDE MINIMUM. (4" MIN. RESIDENTIAL DEPTH - 6" MIN. COMMERCIAL DEPTH)
- 8) DRIVEWAY SLOPE SHALL NOT CREATE OR EXACERBATE VEHICULAR SCRAPING. ATTEMPTS SHALL BE MADE TO CORRECT THIS TYPE OF PROBLEM.

TYPICAL DRIVEWAY CONNECTION STANDARDS FOR EXISTING ROADWAY CONDITIONS

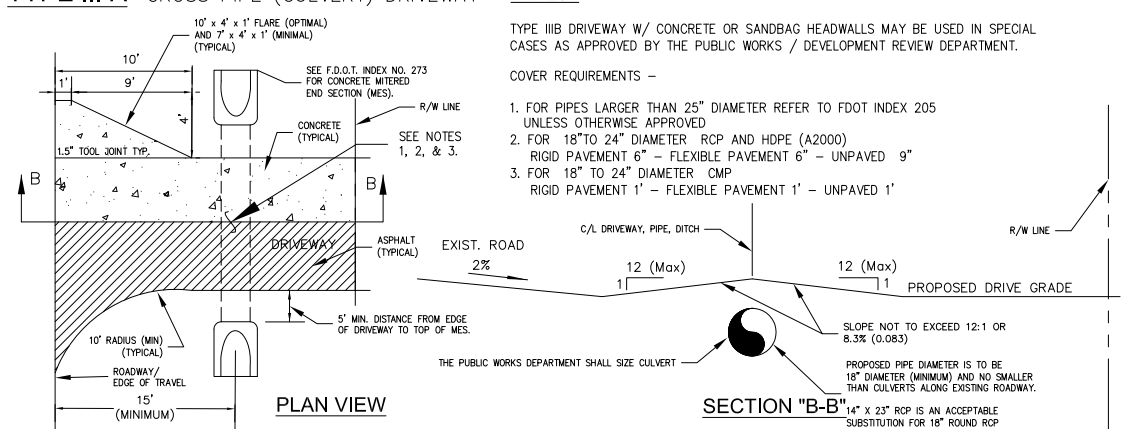
TYPE I CURB CUT DRIVEWAY FOR COUNTY TYPE "B" LAYBACK CURBS.



TYPE II DIPPED DRIVEWAY WITHOUT CROSS PIPE (CULVERT)

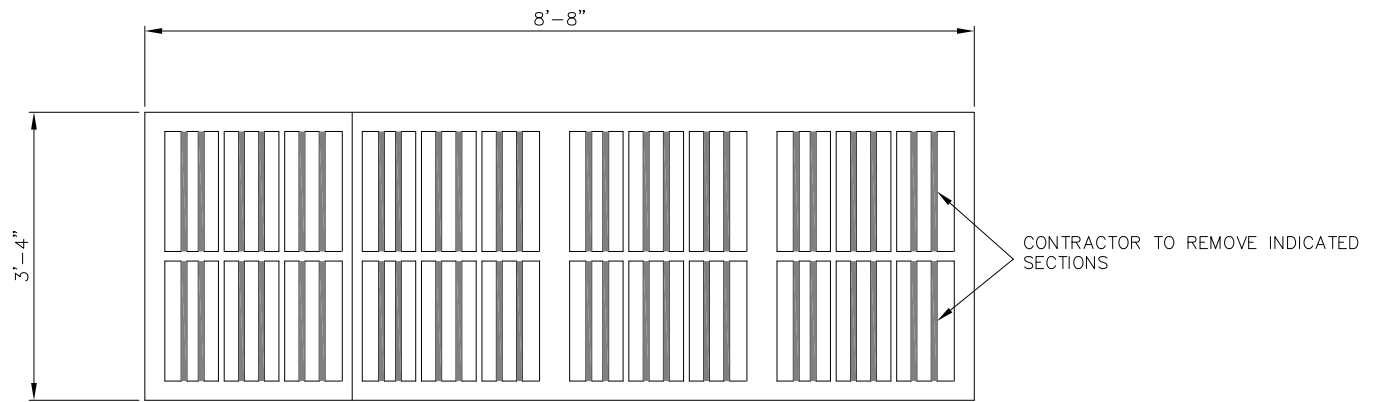


TYPE III-A CROSS PIPE (CULVERT) DRIVEWAY

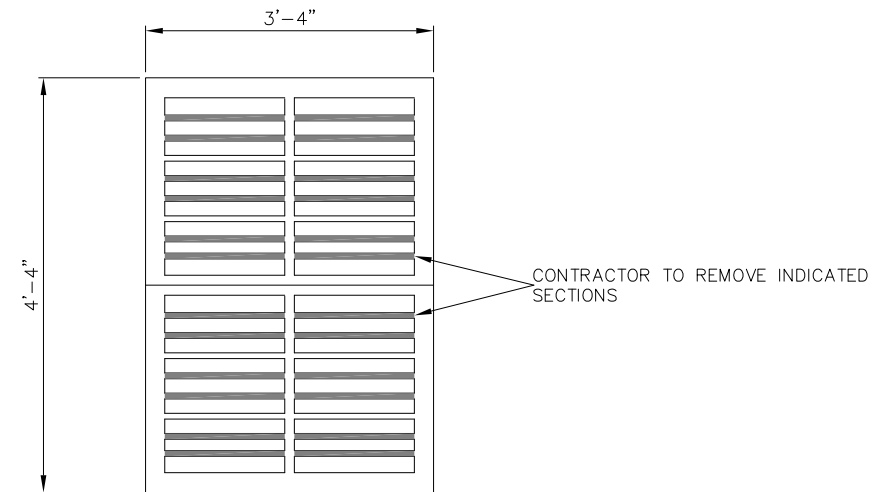


TYPE IV SPECIAL INNOVATIVE DRIVEWAY CONNECTION AS DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.) OR LICENSED CONTRACTOR APPROVED BY THE APPROPRIATE PUBLIC WORKS / DEVELOPMENT REVIEW STAFF AND REQUIRES A DETAILED PLAN SUBMITTAL FOR REVIEW PRIOR TO ISSUANCE OF PERMIT.

TYPE IV-A REQUIRES A F.D.O.T. CONNECTION PERMIT (PROVIDE APPROVED F.D.O.T. PERMIT TO OBTAIN COUNTY APPROVAL). REFER TO INDEX NO. 515 AND CONTACT F.D.O.T. AT (850) 981-3000. MAY REQUIRE PLANS PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.).



MODIFIED TYPE H (4 GRATE) INLET TOP
NOT TO SCALE



MODIFIED TYPE E INLET GRATE TOP
NOT TO SCALE

PONDEROSA DRIVE
DETAILS



ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY: C.GREEN	CHECKED BY: J.KING	DATE: 7/6/14
DRAWN BY: C.GREEN	PROJECT MANAGER: NICK CHAUVIN	DISTRICT: 3
DATE: JUNE 2016	SECTION/TOWNSHIP/RANGE: 09/1S/20W	SIGNATURE: XXXXX

REVISIONS	DATE	APPROVED BY

DRAWING NUMBER	L-5031
PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	17 OF 20



ENGINEERING DIVISION
 ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

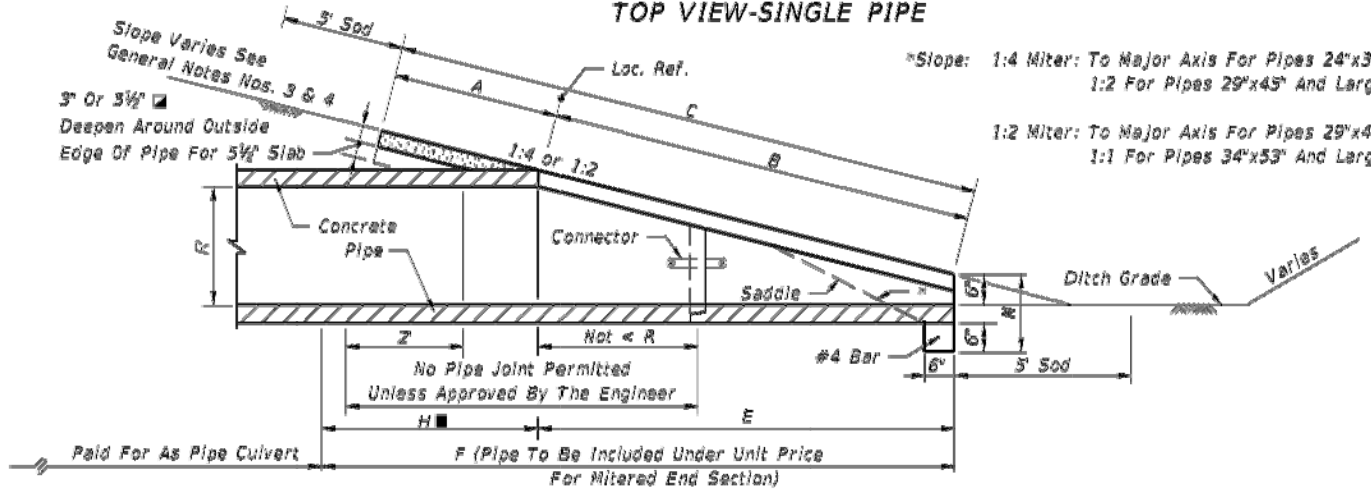
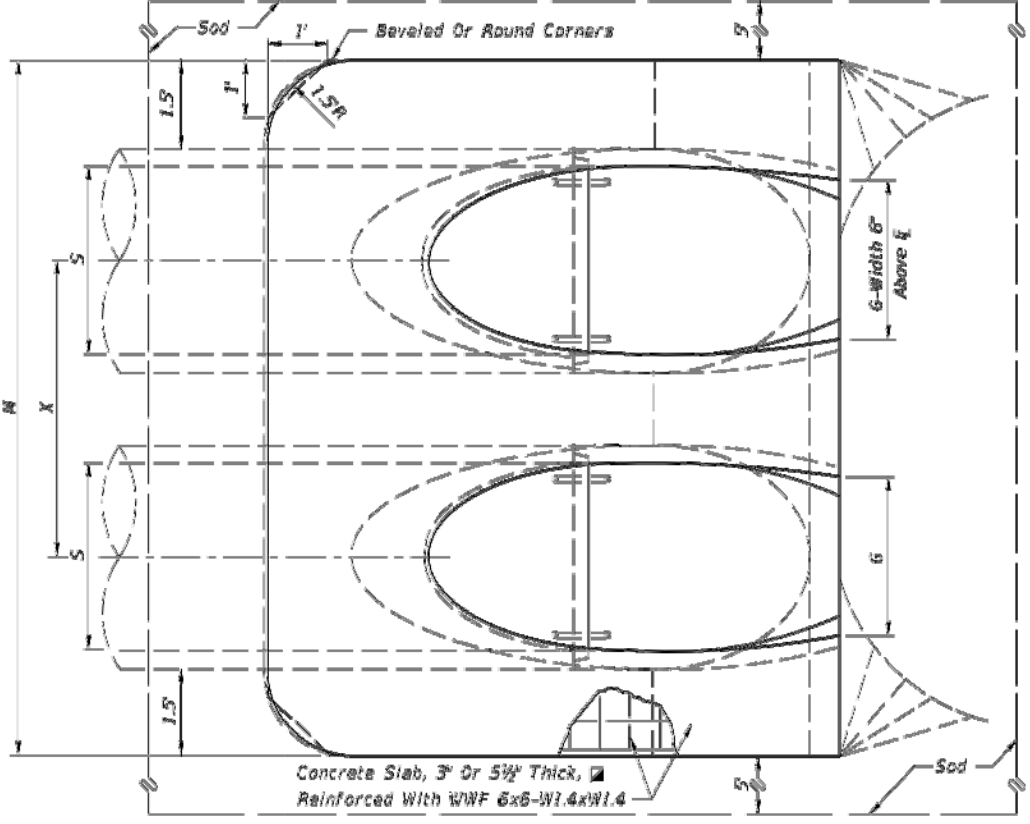
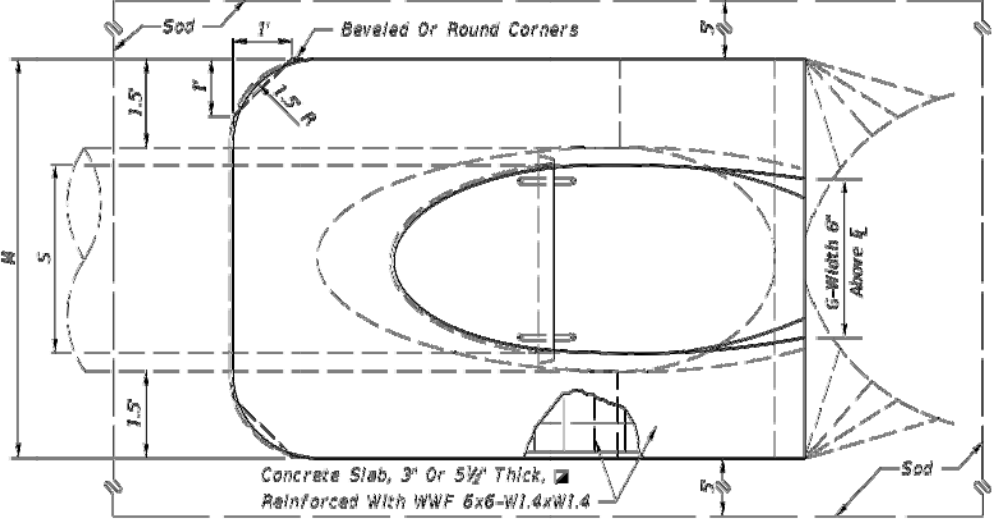
DESIGNED BY: J. KING
 CHECKED BY: NICK CHAUVIN
 DRAWN BY: CGREEN
 DATE: JUNE 2016

REG. FEA. NO. 76144
 DISTRICT 3
 SECTION/TOWNSHIP/RANGE 09/1S/20W
 XXXXX

DIMENSIONS & QUANTITIES																						
Rise R	Span S	X	A	B	C	E	F	G	H	N	5 1/2" CONC. SLAB (CY)				SODDING (SY)							
											Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe				
1:2 Slope	12" 18"	2-10"	1.97'	1.62'	3.59'	1.56'	4'	1.50'	2.4'	4.92'	7.75'	10.58'	13.42'	1.21'	0.30	0.49	0.67	0.85	21	24	27	30
	14" 23"	3-6"	2.01'	1.99'	4.00'	1.89'	5'	1.90'	3.1'	5.38'	8.71'	12.04'	15.38'	1.29'	0.37	0.59	0.81	1.02	22	26	29	33
	16" 30"	4-0"	2.11'	2.92'	5.03'	2.75'	6'	2.37'	3.3'	6.04'	10.04'	14.04'	18.04'	1.27'	0.50	0.80	1.09	1.39	24	28	33	37
	24" 38"	5-0"	2.20'	3.85'	6.05'	3.56'	7'	2.85'	3.4'	6.79'	11.79'	16.79'	21.79'	1.31'	0.62	1.03	1.45	1.86	26	31	37	42
	29" 45"	5-11"	2.34'	4.79'	7.13'	4.39'	8'	3.19'	3.8'	7.50'	13.42'	19.33'	25.25'	1.38'	0.75	1.30	1.84	2.39	28	34	41	47
	34" 53"	7-0"	2.43'	5.72'	8.15'	5.23'	9'	3.57'	3.8'	8.25'	15.25'	22.25'	29.25'	1.42'	0.90	1.61	2.32	3.03	30	37	45	53
	36" 60"	7-10"	2.52'	6.46'	8.95'	5.89'	9'	3.95'	3.1'	8.92'	16.75'	24.58'	32.42'	1.46'	1.03	1.89	2.74	3.60	31	40	49	57
	43" 68"	8-11"	2.82'	7.99'	10.01'	6.75'	10'	4.28'	3.3'	9.87'	18.38'	27.50'	36.42'	1.50'	1.19	2.26	3.33	4.40	33	43	53	63
	48" 78"	9-11"	2.71'	8.33'	11.04'	7.56'	11'	4.59'	3.4'	10.42'	20.33'	30.25'	40.17'	1.54'	1.38	2.65	3.93	5.21	35	46	57	68
	53" 83"	10-8"	2.80'	9.28'	12.06'	8.39'	12'	4.77'	3.8'	11.08'	21.75'	32.42'	43.08'	1.58'	1.55	3.03	4.50	5.98	37	49	61	73
58" 91"	11-8"	2.90'	10.19'	13.09'	9.23'	13'	5.01'	3.8'	11.83'	23.50'	35.17'	46.83'	1.63'	1.75	3.47	5.20	6.93	39	52	65	78	
1:4 Slope	12" 18"	2-10"	2.36'	3.06'	5.42'	3.03'	5'	1.50'	2.0'	4.92'	7.75'	10.58'	13.42'	1.21'	0.45	0.68	0.92	1.14	23	25	29	32
	14" 23"	3-6"	2.44'	3.79'	6.19'	3.70'	6'	1.90'	2.3'	5.38'	8.71'	12.04'	15.38'	1.29'	0.53	0.83	1.13	1.42	24	28	32	35
	16" 30"	4-0"	2.82'	3.47'	8.09'	5.36'	8'	2.37'	2.8'	6.04'	10.04'	14.04'	18.04'	1.27'	0.74	1.13	1.57	1.98	27	32	36	40
	24" 38"	5-0"	2.79'	7.18'	9.97'	7.03'	10'	2.85'	3.0'	6.79'	11.79'	16.79'	21.79'	1.31'	0.97	1.57	2.19	2.81	30	36	41	47
	29" 45"	5-11"	3.05'	8.90'	11.95'	8.70'	12'	3.19'	3.3'	7.50'	13.42'	19.33'	25.25'	1.38'	1.22	2.07	2.92	3.77	33	40	46	53
	34" 53"	7-0"	3.22'	10.62'	13.84'	10.36'	13'	3.57'	2.8'	8.25'	15.25'	22.25'	29.25'	1.42'	1.48	2.62	3.77	4.92	36	44	52	59
	36" 60"	7-10"	3.39'	11.99'	15.36'	11.70'	15'	3.93'	3.3'	8.92'	16.75'	24.58'	32.42'	1.46'	1.72	3.12	4.33	5.92	38	47	56	65
	43" 68"	8-11"	3.36'	13.71'	17.27'	13.36'	17'	4.28'	3.8'	9.87'	18.38'	27.50'	36.42'	1.50'	2.02	3.78	5.56	7.32	41	51	61	71
	48" 78"	9-11"	3.73'	15.43'	19.16'	15.03'	19'	4.59'	4.0'	10.42'	20.33'	30.25'	40.17'	1.54'	2.34	4.49	6.64	8.79	44	55	66	77
	53" 83"	10-8"	3.91'	17.15'	21.06'	16.70'	20'	4.77'	3.3'	11.08'	21.75'	32.42'	43.08'	1.58'	2.66	5.17	7.66	10.16	47	59	71	83
58" 91"	11-8"	4.08'	18.87'	22.95'	18.36'	22'	5.01'	3.8'	11.83'	23.50'	35.17'	46.83'	1.63'	3.02	5.98	8.95	11.90	50	63	76	89	

See General Note No. 3.
 See Sheet 5 For 3" Slab Quantities

Values shown for estimating pipe quantities and are for information only.



NOTE: See Sheet 6 For Details And Notes.
TOP VIEW - MULTIPLE PIPE

SINGLE AND MULTIPLE ELLIPTICAL CONCRETE PIPE

LAST REVISION 07/01/02	DESCRIPTION:	FDOT FY 2016-17 DESIGN STANDARDS	CROSS DRAIN MITERED END SECTION	INDEX NO. 272	SHEET NO. 4 of 6
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DRAWING NUMBER	L-5031
PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	18 OF 20



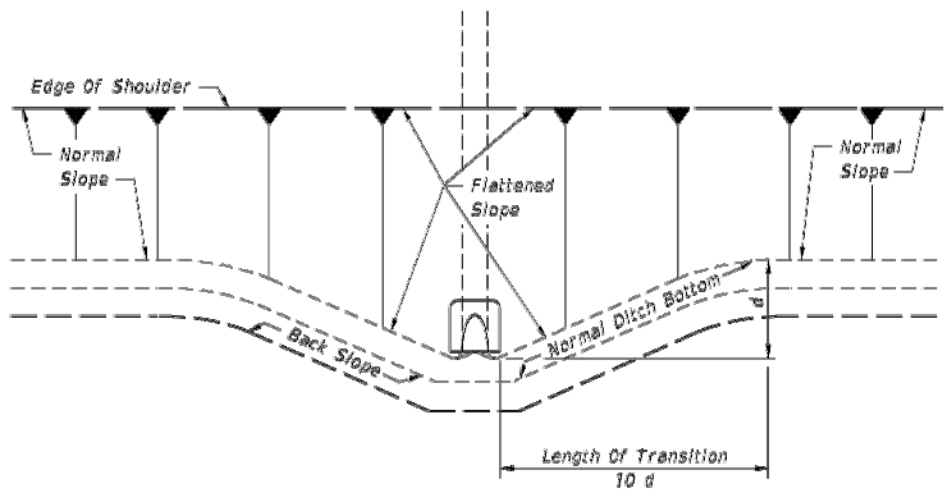
ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY: J. KING
CHECKED BY: C. GREEN
PROJECT MANAGER: NICK CHAUVIN
DATE: JUNE 2016
FIELD BOOK PAGES: XXXX
SECTION/TOWNSHIP/RANGE: 09 / 1S / 20W

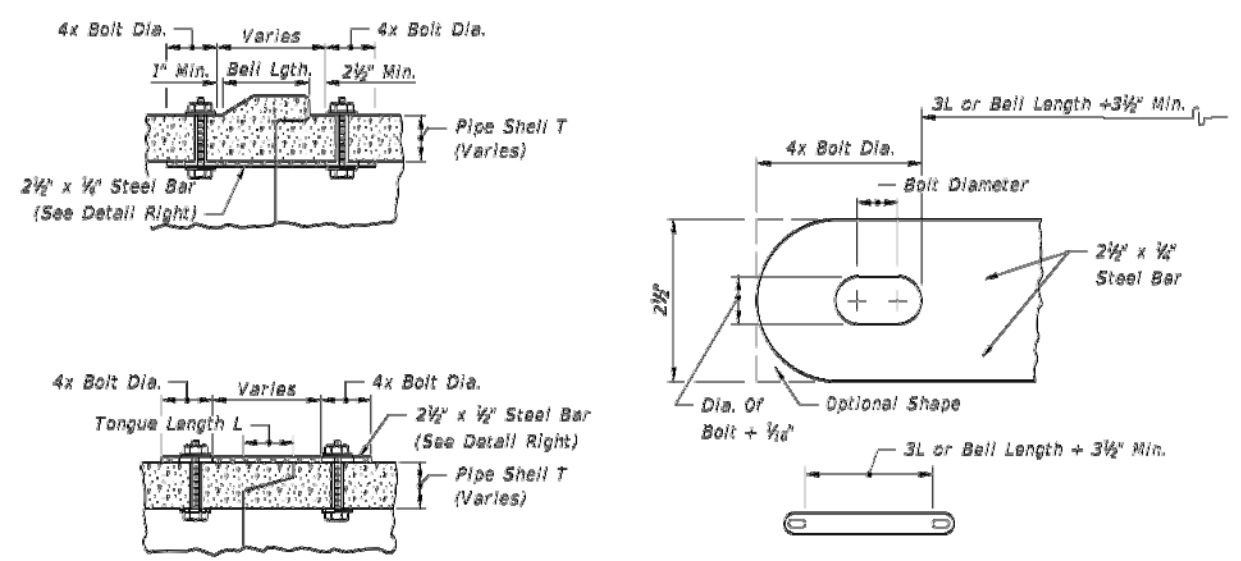
REVISION NUMBER	DATE	APPROVAL

GENERAL NOTES

1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe; corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, mitered end sections shall be constructed with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, a concrete jacket shall be constructed in accordance with Standard Index 280.
2. Corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC) and polypropylene pipe (PPP) for cross drain applications shall utilize either corrugated metal or concrete mitered end sections (MES). When used in conjunction with corrugated (MES), connection shall be by either a formed metal band specifically designated to join HDPE or PVC pipe, with metal pipe or other coupler approved by the State Drainage Engineer. When used in conjunction with a concrete (MES), connection shall be by concrete jacket constructed in accordance with Index No. 280.
3. Mitered end sections for pipe sizes 15", 18" and 24" round or equivalent pipe arch or elliptical pipe are permitted within the clear zone. When the slope intersection permits, the mitered end section may be located with the culvert opening as close as 8' beyond the outside edge of the shoulder.
4. Slope and ditch transitions shall be used when the normal roadway slope must be flattened to place end section outside clear zone. See detail left.
5. The reinforced concrete slab shall be constructed for all sizes of cross drain pipe and cast in place with Class MS concrete. Slabs shall be 5 1/2" thick unless 3" thickness called for in plans.
6. Concrete pipe used in the assembly of mitered end sections shall be selective lengths to avoid excessive connections.
7. Corrugated metal pipe galvanizing that is damaged during beveling and perforating for mitered end section shall be repaired.
8. That portion of corrugated metal pipe in direct contact with the concrete slab and extending 12" beyond shall be bituminous coated prior to placing of the concrete.
9. When existing multiple cross drain pipes are spaced other than the dimensions shown in this detail, or have non-parallel axes, or have non-uniform sections, the mitered end sections will be constructed either separately as single pipe mitered end sections or collectively as multiple pipe end sections as directed by the Engineer; however, mitered end sections will be paid for each based on each independent pipe end.
10. The cost of all pipe(s), fasteners, reinforcing, connectors, anchors, concrete, sealants, jackets, and coupling bands shall be included in the cost for the mitered end section. Sodding shall be paid for separately under the contract unit price of Performance Turf, SY.
11. Mitered end sections shall be paid for under the contract unit price for Mitered End Section (CD). Each, based on each independent pipe end.

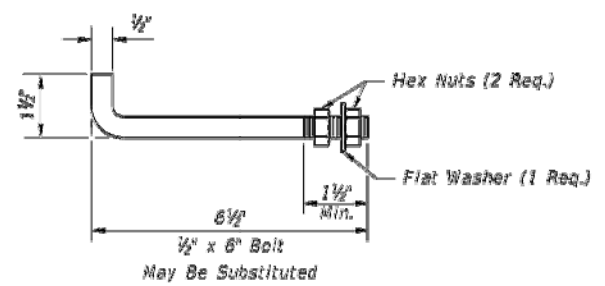


PLAN
NOTE: See General Note 4
SLOPE AND DITCH TRANSITIONS



All bars, bolts, nuts and washers are to be galvanized steel.
Bolt diameters shall be 3/8" for 15" to 36" pipe and 1/2" for 42" to 72" pipe.
Two connectors required per joint, located 80° right and left of bottom center of pipe.
Bolt holes in pipe shell are to be drilled.

CONCRETE PIPE CONNECTOR



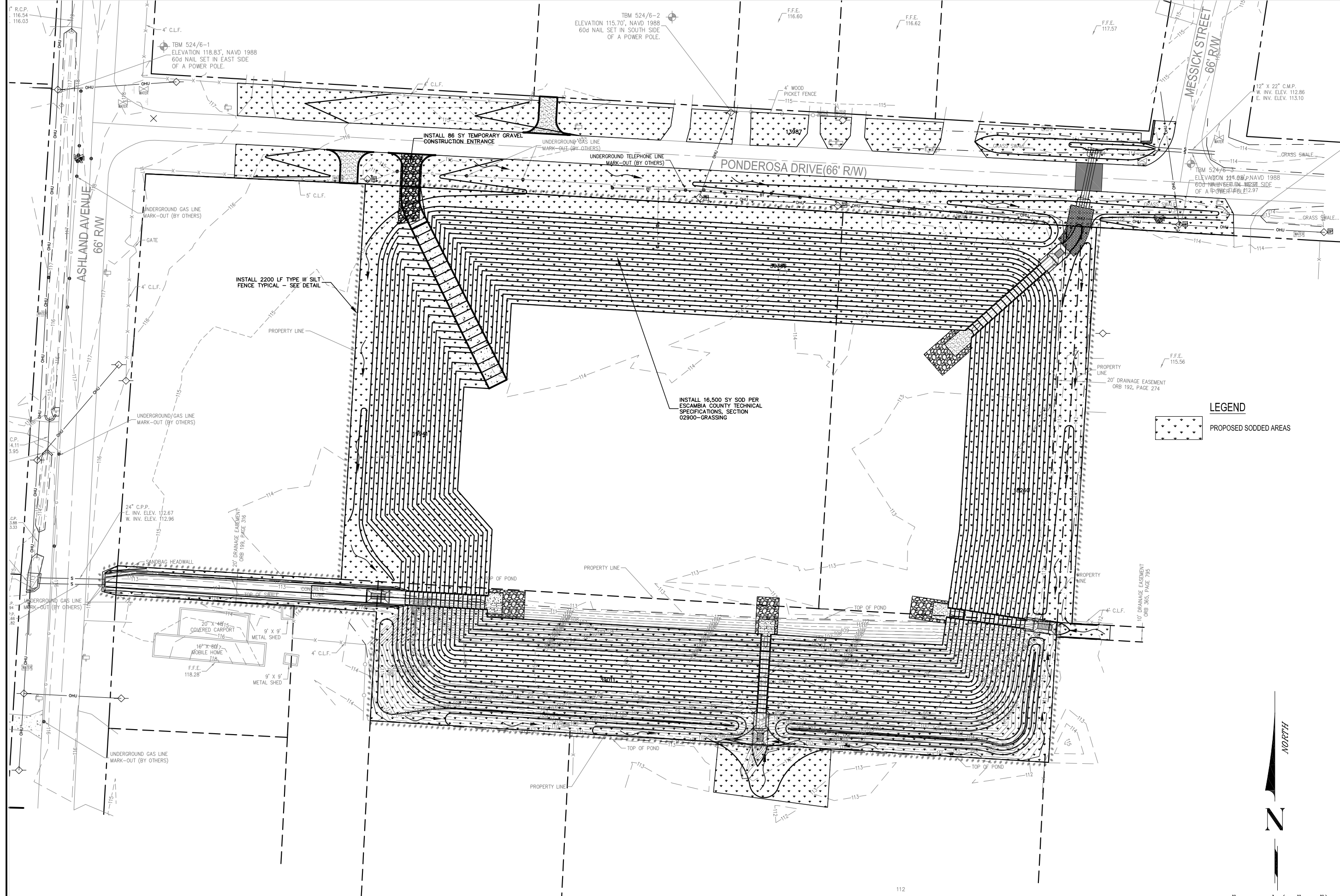
Anchors required for CMP only.
Anchor, washer and nuts to be galvanized steel.
Bend anchor where required to center in concrete slab. Damaged surfaces to be repaired after bending. Anchors are to be spaced a distance equal to four (4) corrugations. Place the anchors in the outside crest of corrugation.
Flat washers to be placed on inside wall of pipe.
Holes in the mitered end pipe are to be drilled or punched; burning not permitted.


ANCHOR DETAIL

SPECIAL DETAILS AND NOTES

12/07/2015 1:04:53 PM

LAST REVISION 07/01/12	DESCRIPTION:	FDOT FY 2016-17 DESIGN STANDARDS	CROSS DRAIN MITERED END SECTION	INDEX NO. 272	SHEET NO. 6 of 6
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LEGEND
 PROPOSED SODDED AREAS

PONDEROSA DRIVE
EROSION CONTROL PLAN



ENGINEERING DIVISION
ESCAMBIA COUNTY, FLORIDA
 3363 WEST PARK PLACE, PENSACOLA, FLORIDA 32505

DESIGNED BY: CGREEN	CHECKED BY: J. KING	REG. E.A. NO. 76144	DATE
PROJECT MANAGER: NICK CHAUVIN	DISTRICT: 3	SIGNATURE	

SECTION/TOWNSHIP/RANGE
 09 / 1S / 20W
 XXXXX

REVISIONS	DATE	APPROVED BY

FILE LOCATION: L-Design/Pondosa Drive Design DWG/Plan

DRAWING NUMBER	L-5031
PROJECT NUMBER	ENG1463
SURVEY NUMBER	20150056
SHEET	20 OF 20

1" = 60' (11"x17")
 1" = 30' (22"x34")