

KINHEGA/BEECH RIDGE ROUNDABOUT

LEON COUNTY, FLORIDA

FINAL PLANS

COMMISSIONERS:

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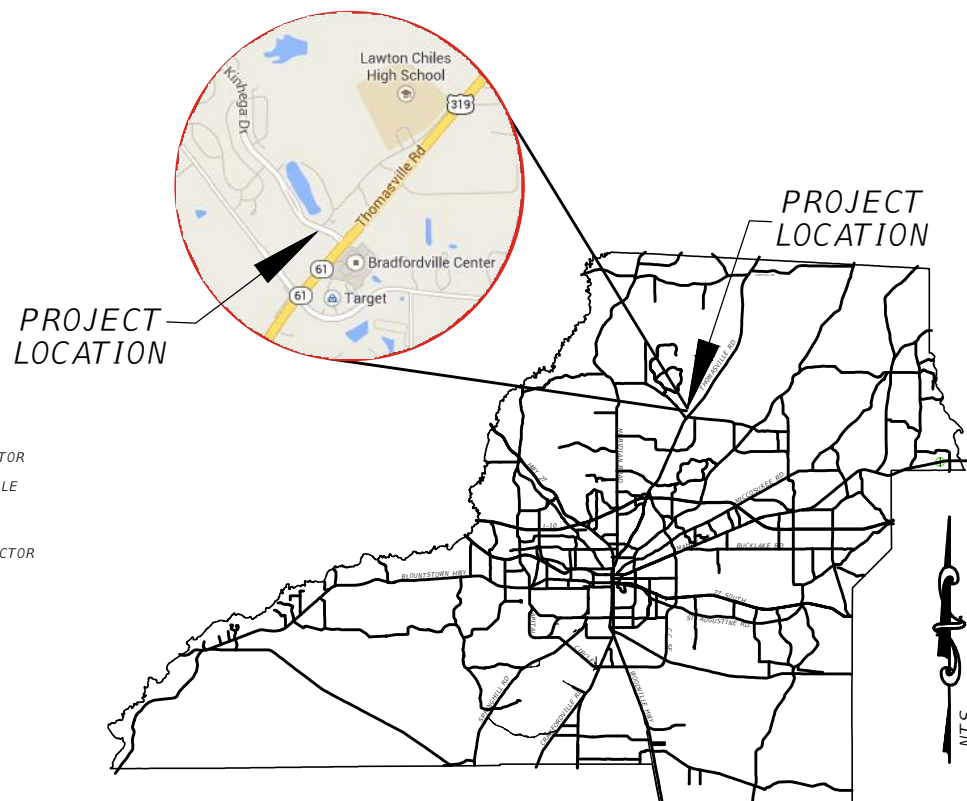
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COUNTY ADMINISTRATOR
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COUNTY ATTORNEY
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PUBLIC WORKS DIRECTOR



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PROJECT SUMMARY:

THIS PROJECT IS FOR THE CONSTRUCTION OF A ROUNDABOUT AND SIDEWALKS TO TIE EXISTING ROAD FOR KINHEGA DR. AND BEECH RIDGE TRL.

Parcel ID: KINHEGA RD. R/W



LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD, TALLAHASSEE, FLORIDA 32308
PHONE (850) 606-1500 * FAX (850) 606-1501

LEON COUNTY PUBLIC WORKS PROJECT MANAGER: Kimberly Wood, P.E.

Civil Engineer:

DRMP, INC.
1435 East Piedmont Drive, Suite 210
Tallahassee, Florida 32308
PHONE: (850) 562-9600
FAX: (850) 575-5544
e-mail: bking@drmp.com
FL CA 2648

MARCH 27, 2015



DRMP JOB NUMBER 10-0547.003
REVISION DATE:

ISSUED FOR
FINAL PLANS
03/27/2015

Bryant King, P.E.
Florida PE 51994

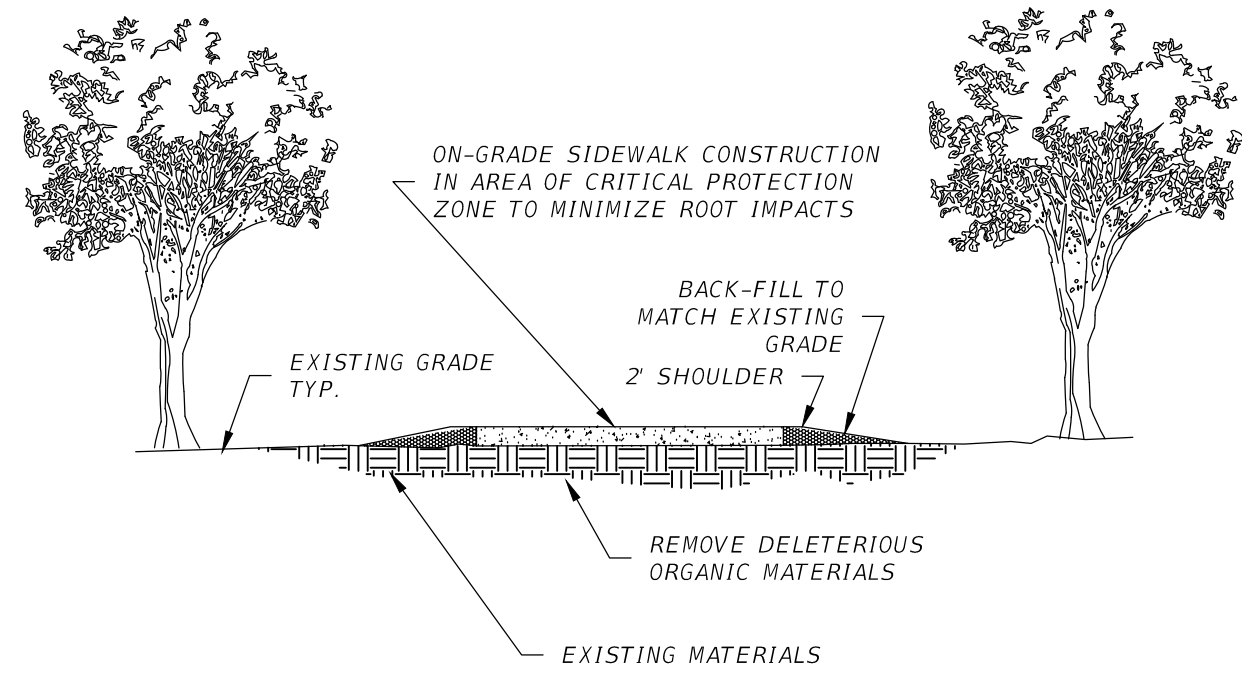
TREE REMOVAL TABLE			
TREE #	TREE CLASS	REMOVAL TYPE	DEBIT
933	12" LIVE OAK	TECHNICAL	4
935	14" LIVE OAK	REMOVAL	6
936	27" LIVE OAK	REMOVAL	10
937	25" GUM	REMOVAL	10
938	12" LIVE OAK	REMOVAL	4
939	18" OAK	REMOVAL	6
940	18" COTTONWOOD	REMOVAL	6
941	24" PINE	REMOVAL	8
942	26" LIVE OAK	REMOVAL	10
943	18" LIVE OAK	REMOVAL	8
944	14" LIVE OAK	REMOVAL	6
945	21" LIVE OAK	REMOVAL	8
946	23" PINE	REMOVAL	8
947	13" LIVE OAK	REMOVAL	10
948	28" LIVE OAK	REMOVAL	10
949	25" PINE	REMOVAL	10
950	27" PINE	REMOVAL	10
952	23" LIVE OAK	REMOVAL	8
953	14" LIVE OAK	REMOVAL	6
962	13" LIVE OAK	REMOVAL	6
970	12" LIVE OAK	REMOVAL	4
975	12" LIVE OAK	REMOVAL	4
980	17" LIVE OAK	REMOVAL	6
1030	12" LIVE OAK	REMOVAL	4
1177	13" PINE	TECHNICAL	6
1178	14" PINE	REMOVAL	6
1179	21" PINE	REMOVAL	8
1180	18" PINE	TECHNICAL	6
3556	22" WATER OAK	TECHNICAL	8
3681	24" WATER OAK	TECHNICAL	8
3777	24" WATER OAK	TECHNICAL	8
3778	24" WATER OAK	TECHNICAL	8
3791	24" WATER OAK	TECHNICAL	8
TOTAL			252

TREE REMOVAL TABLE(BEECH RIDGE DEVELOPER PROPERTY)			
TREE #	TREE CLASS	REMOVAL TYPE	DEBIT
398	14" LIVE OAK	TECHNICAL	6
448	6" 9" ASH	REMOVAL	6
450	9" LIVE OAK	REMOVAL	4
452	12" LIVE OAK	REMOVAL	4
453	24" LIVE OAK	REMOVAL	8
454	13" LIVE OAK	REMOVAL	6
455	14" LIVE OAK	REMOVAL	6
456	14" LIVE OAK	REMOVAL	6
457	20" OAK	REMOVAL	8
459	31" MAGNOLIA	REMOVAL	16
525	21" GUM	REMOVAL	8
TOTAL			78

TREE CREDIT TABLE		
TREE #	TREE CLASS	CREDIT
1011	14" LIVE OAK	6
3699	17" LIVE OAK	6
4045	8" LIVE OAK	4
3977	7" LIVE OAK	4
3976	3" MAGNOLIA	1
3975	6" LIVE OAK	2
3971	3" MAGNOLIA	1
3974	4" MAGNOLIA	2
3973	4" CYPRIUS	2
3972	6" LIVE OAK	2
3449	8" CYPRIUS	4
3448	9" CYPRIUS	4
3983	10" MAGNOLIA	4
	18" LIVE OAK	6
TOTAL		48

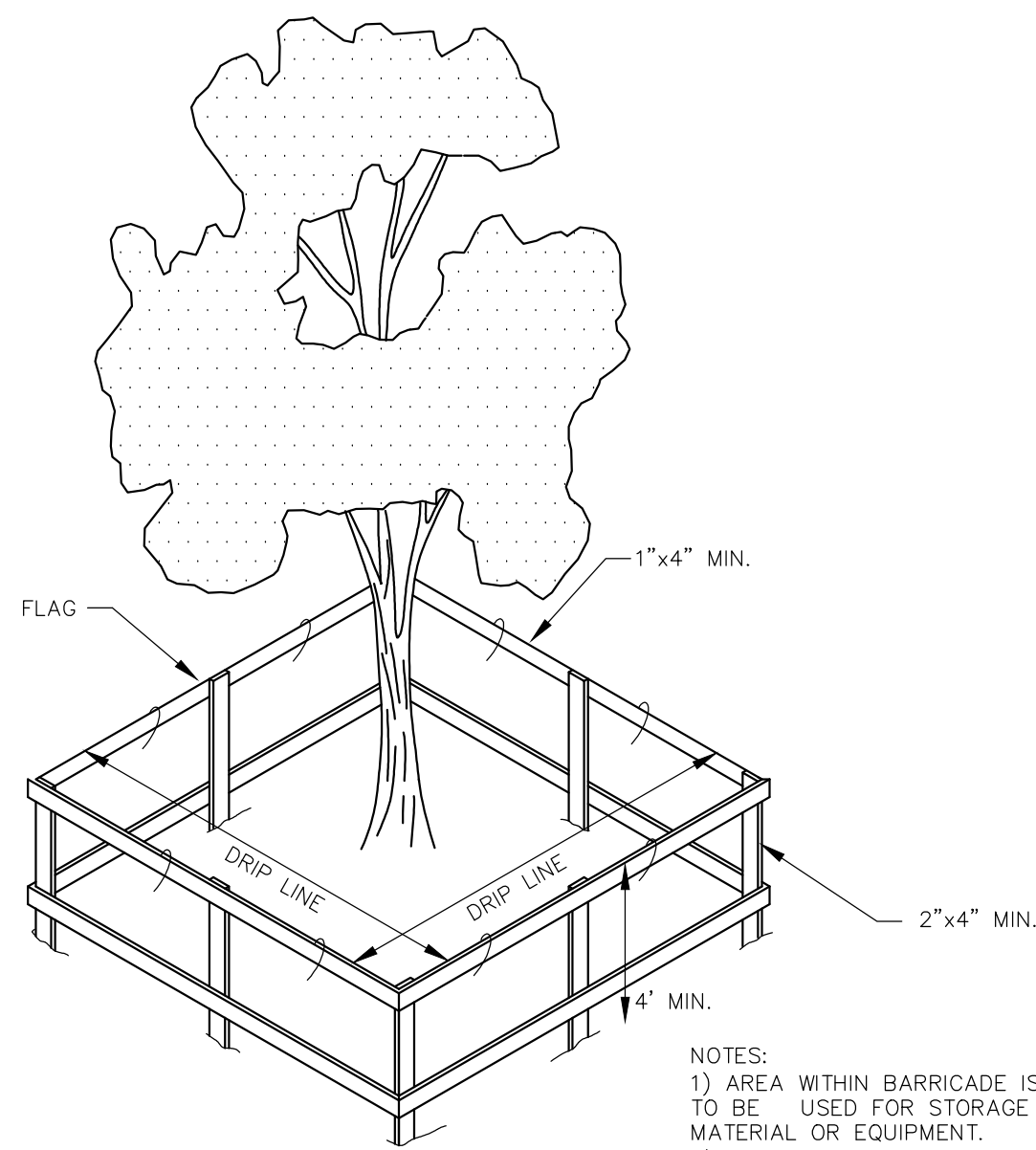
CONSTRUCTION SEQUENCE:

1. THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE CONSTRUCTION CONFERENCE WITH LEON COUNTY PUBLIC WORKS(LCPW) AND LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT DEPARTMENT (LCDSEM), NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWD) AND ALL UTILITY PROVIDERS PRIOR TO ANY CONSTRUCTION ACTIVITY.
 2. CLEARLY "FLAG" THE LIMITS OF CONSTRUCTION AND COMPLETE ALL ARBORIST ACTIVITIES INCLUDING TREE PRUNING, ROOT PRUNING AND FERTILIZATION FOR ALL TECHNICAL TREE REMOVALS.
 3. THE CONTRACTOR SHALL FIRST CONSTRUCT SEDIMENTATION/EROSION CONTROLS. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN INSPECTED AND APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR.
 4. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 5. IN EACH MOT PHASE, THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE FOLLOWED:
 - CLEAR AND GRUB THE WORK AREA AND INSTALL ALL EROSION CONTROL MEASURES.
 - IN PHASE II ONLY, CONSTRUCT ALL DRAINAGE STRUCTURES AND PIPES, INCLUDING THE BEECH RIDGE TRAIL SOUTH CROSS DRAIN. PIPES SHALL BE CONSTRUCTED IN THE UPSTREAM DIRECTION BEGINNING AT THE MOST DOWNSTREAM LOCATION.
 - CONSTRUCT ROADWAY FEATURES.
 6. STABILIZE THE ROAD SURFACE WITH BASE AND ASPHALT.
 7. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN COUNTY'S APPROVAL TO IMPLEMENT THE MAINTENANCE OF TRAFFIC PLAN.
 8. THE CONTRACTOR SHALL PROVIDE THE AS-BUILT SURVEY TO DESIGN ENGINEER FOR REVIEW AND ACCEPTANCE OF THE FINAL COMPLETION. A-BUILT PLANS/SURVEY SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW 30 DAYS PRIOR TO THE CONTRACTORS REQUEST FOR A FINAL INSPECTION FROM LCDSEM. CONTRACTOR SHALL ALSO SUBMIT TO LCDSEM CERTIFIED AS-BUILT'S AND DESIGN ENGINEERS CERTIFICATION STATEMENT 20 DAYS PRIOR REQUEST OF FINAL INSPECTION. ALL AREAS SHALL BE STABILIZED AND LANDSCAPED PRIOR TO ANY REQUEST FOR A FINAL INSPECTION.
 9. A STORMWATER OPERATING PERMIT APPLICATION AND LANDSCAPE AS-BUILT PLAN WILL BE SUBMITTED TO LCDSEM AS PART OF THE AS-BUILT PACKAGE.
- CONSTRUCTION ACTIVITY WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED TREE SHALL BE EVALUATED BY THE CONTRACTOR'S CERTIFIED ARBORIST OR REGISTERED LANDSCAPE ARCHITECT (A-LA). THE A-LA SHALL EVALUATE THE CURRENT HEALTH AND CONDITION OF THE TREE AND EVALUATE THE IMPACTS THAT WILL BE IMPOSED BY CONSTRUCTION ACTIVITY. THE GROWTH MANAGEMENT ARBORIST AND THE CONTRACTOR'S A-LA SHALL COLLABORATE AND DETERMINE THE BEST COURSE OF ACTION AND CARRY OUT THE ARBORICULTURAL MITIGATION TECHNIQUES NECESSARY TO MITIGATE THE CONSTRUCTION IMPACTS IN ORDER TO REASONABLY ENSURE THE LONG TERM HEALTH AND SAFETY OF THE TREE. IN CASES WHERE MITIGATION TECHNIQUES CANNOT REASONABLY ENSURE LONG TERM HEALTH AND SAFETY OF THE TREE A RECOMMENDATION FOR REMOVAL SHALL BE DOCUMENTED AND PRESENTED TO THE PERMITTEE FOR FURTHER ACTION. IN CASES WHERE THE A-LA AND THE GROWTH MANAGEMENT ARBORIST CANNOT COME TO MUTUAL AGREEMENT, A RECOMMENDATION SHALL BE REQUESTED FROM THE LEON COUNTY EXTENSION URBAN FORESTER.
- PERMITTEE SHALL CAUSE CONTRACTOR'S A-LA TO PROVIDE A LANDSCAPING AND URBAN FOREST COMPLIANCE REPORT PREPARED IN ACCORDANCE WITH LEON COUNTY LDC 10-4.208 AT LEAST SEVEN DAYS PRIOR TO REQUESTING A FINAL ENVIRONMENTAL INSPECTION. THE REPORT SHALL INCLUDE DOCUMENTATION DETAILING THE MITIGATION EFFORTS IMPOSED ON EACH IMPACTED TREE. RECONCILIATION OF THE DEFERRED IMPACTED TREE REPLACEMENT REQUIREMENTS SHALL OCCUR AT TIME OF SUBMITTAL OF THE COMPLIANCE REPORT IN ACCORDANCE WITH LEON COUNTY LDC 10-4.351.



ON-GRADE SIDEWALK DETAIL

NOTE: WHERE ROOTS ARE EXPOSED ON GRADE, COVER WITH 2-3" OF SAND PRIOR TO SETTING FORMS.



TREE BARRICADE DETAIL

NTS

- NOTES:
- 1) AREA WITHIN BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.
 - 2) TREE PROTECTION BARRICADES SHALL BE LOCATED AT THE PERIMETER OF THE CPZ.

ARBORIST NOTES:

1. ALL FERTILIZATION & ROOT PRUNING WILL BE DONE BY A CERTIFIED ARBORIST.
2. ROOT PRUNING WILL BE COMPLETED 1-2 DAYS PRIOR TO CONSTRUCTION.
3. TREES AFFECTED BY ROOT PRUNING TO BE FERTILIZED AT LEAST 1 MONTH PRIOR TO CONSTRUCTION.
4. INSTALL HOG-WIRE FENCE TO PROTECT BANK & TREES FROM EQUIPMENT. A TREE BARRICADE OR HIGH VISIBILITY ORANGE FENCING SHALL BE USED IN ADDITION TO HOG WIRE FENCING.
5. SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED AFTER EVERY HEAVY RAINFALL & ACCUMULATED SEDIMENT REMOVED AS NEEDED.
6. ADD TYPE IV SILT FENCE TO HOG-WIRE FENCE IN SELECTED AREAS ONLY AND AS NECESSARY TO CONTROL EROSION DURING CONSTRUCTION OR AS REQUIRED BY LEON COUNTY ENVIRONMENTAL INSPECTOR.

SURVEY:

SURVEY PROVIDED TO LCPW BY MOORE BASS CONSULTING WITH SUPPLEMENTAL TOPOGRAPHIC INFORMATION BY DRMP, INC. TO ASSIST WITH DESIGN.

HATCHING

- ASPHALT
- SIDEWALK/CONCRETE

TREE LEGEND

- LVK LIVE OAK
- WRK WATER OAK
- RDK RED OAK
- LRLK LAUREL OAK
- PTK POST OAK
- TRK TURKEY OAK
- BLK BLACK OAK
- SMK SHUMARD OAK
- PN PINE
- LGLP LONGLEAF PINE
- SDP SAND PINE
- SLP SHORTLEAF PINE
- LBYP LOBLOLLY PINE
- SRUP SPRUCE PINE
- CPH CAMPHOR
- DOG DOGWOOD
- GUM SWEETGUM
- RMPL RED MAPLE
- CHY CHERRY
- HKY HICKORY
- MAG MAGNOLIA
- CDR CEDAR
- PCN PECAN
- SYC SYCAMORE
- MUL MULBERRY
- BAY BAY
- CYP CYPRESS
- POP POPLAR
- CHLL CHERRY LAUREL
- X UNIDENTIFIED
- Y UNIDENTIFIED
- OT ORNAMENTAL TREE

- INDICATES TREES TO BE REMOVED (DEBITS)
- INDICATES TREES TECHNICALLY REMOVED (DEBITS)
- TREE SIZE AND TYPE
- TREE TRUNK
- REPRESENT 100% OF THE TOTAL CRITICAL PROTECTION ZONE (CPZ)

CR12 DENOTES CURB RAMP TYPE PER FDOT STANDARD INDEX 304

EXISTING

- POWER POLE
- COMBINATION POLE
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- SIGNAL POLE
- LIGHT POLE
- GUY ANCHOR
- GAS METER
- GAS VALVE
- SANITARY SEWER MANHOLE
- SANITARY SEWER FLOW ARROW
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- STORM MANHOLE
- CURB INLET
- GRATE INLET
- STORM FLOW ARROW

LEGEND

- SCM SET CONCRETE MONUMENT
- SIR SET IRON ROD
- SNC SET NAIL & CAP
- REF.PT REFERENCE POINT
- WIT.PT WITNESS POINT
- FCM FOUND CONCRETE MONUMENT
- FTCM FOUND TERRA COTTA MONUMENT
- FIR FOUND IRON ROD
- FNC FOUND NAIL & CAP
- FPP FOUND IRON PIPE
- PRM PERMANENT CONTROL POINT
- PERM PERMANENT REFERENCE MONUMENT
- LB LICENSED BUSINESS
- BN BENCH MARK
- TBM TEMPORARY BENCH MARK
- NAD NORTH AMERICAN DATUM
- NAVD NORTH AMERICAN VERTICAL DATUM, 1988
- NGVD NATIONAL GEODETIC VERTICAL DATUM, 1929
- MB MOORE BASS CONSULTING
- DOT STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
- COT CITY OF TALLAHASSEE
- ALTA AMERICAN LAND TITLE ASSOCIATION
- ACSM AMERICAN CONGRESS ON SURVEYING & MAPPING
- NSPS NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
- (S) SURVEY INFORMATION
- (D) DEED INFORMATION
- (P) PLATTED DATA
- (C) CALCULATED DATA
- POC POINT OF COMMENCEMENT
- POB POINT OF BEGINNING
- SEC. SECTION
- T. TOWNSHIP
- R. RANGE
- O.R. OFFICIAL RECORDS
- Δ CENTRAL ANGLE
- R. RADIUS
- L. LENGTH
- CH CHORD BEARING & DISTANCE
- PI POINT OF INTERSECTION
- PT POINT OF TANGENCY
- POT POINT OF TANGENT
- PC POINT OF CURVE
- PCC POINT OF COMPOUND CURVE
- PRC POINT OF REVERSE CURVE
- R/W RIGHT-OF-WAY
- CL CENTER LINE
- R/R RAILROAD
- S.R. STATE ROAD
- SRD STATE ROAD DEPARTMENT
- EL ELEVATION
- FFE FINISH FLOOR ELEVATION
- INV INVERT ELEVATION
- DHW OVERHEAD WIRE
- UP UTILITY POLE
- TELE TELEPHONE
- CONC CONCRETE
- CO CLEAN OUT
- WM WATER METER
- WV WATER VALVE
- FH FIRE HYDRANT
- GV GAS VALVE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- HDPE HIGH DENSITY POLYETHYLENE
- SSMH SANITARY SEWER MANHOLE
- SDMH STORM DRAIN MANHOLE
- CLF CHAIN LINK FENCE
- MB MAIL BOX
- C-PED CABLE PEDESTAL
- T-PED TELEPHONE PEDESTAL
- SS SANITARY SEWER LINE EXISTING
- W WATER MAIN EXISTING
- 18" CORRUGATED METAL PIPE
- OT OVERHEAD TELEPHONE EXISTING
- OE OVERHEAD ELECTRIC LINE EXISTING
- BE UNDERGROUND ELECTRIC LINE EXISTING
- BT UNDERGROUND TELEPHONE LINE EXISTING
- Gas UNDERGROUND GAS LINE EXISTING
- UG UNDERGROUND CABLE TELEVISION LINE EXISTING
- BFO UNDERGROUND FIBER OPTIC CABLE LINE EXISTING
- EXISTING FENCE
- EXISTING WETLAND LINE
- TPB TREE PROTECTION BARRICADE (TPB)
- RIGHT OF WAY/PROPERTY LINE
- LOC LIMITS OF CONSTRUCTION
- SILT SILTFENCE

LEON COUNTY DEPARTMENT OF PUBLIC WORKS

2280 MICCOSUKEE ROAD
TALLAHASSEE, FL 32308
PHONE (850) 606-1500
FAX (850) 606-1501

KINHEGA BEECH RIDGE ROUNDABOUT

FINAL PLANS

LEON COUNTY, FLORIDA

DRMP

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Certificate of Authorization No. 2618
1435 East Piedmont Drive, Suite 210
Tallahassee, Florida 32308
Phone: 850.562.9600 WWW.DRMP.COM

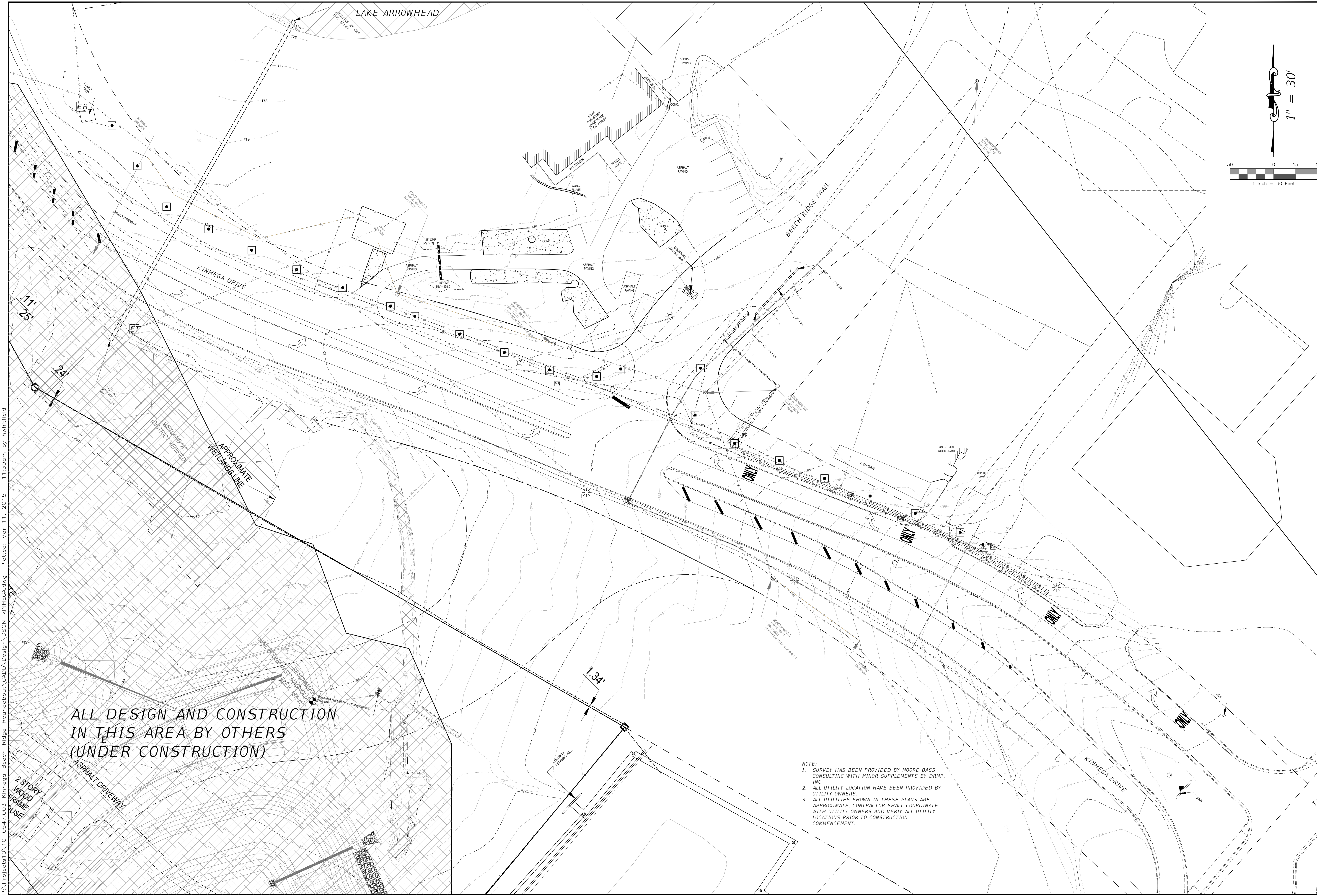
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Florida Engineer # 51994

PROJECT NO.:
10-0547.003

SCALE:
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DATE:
03/27/2015

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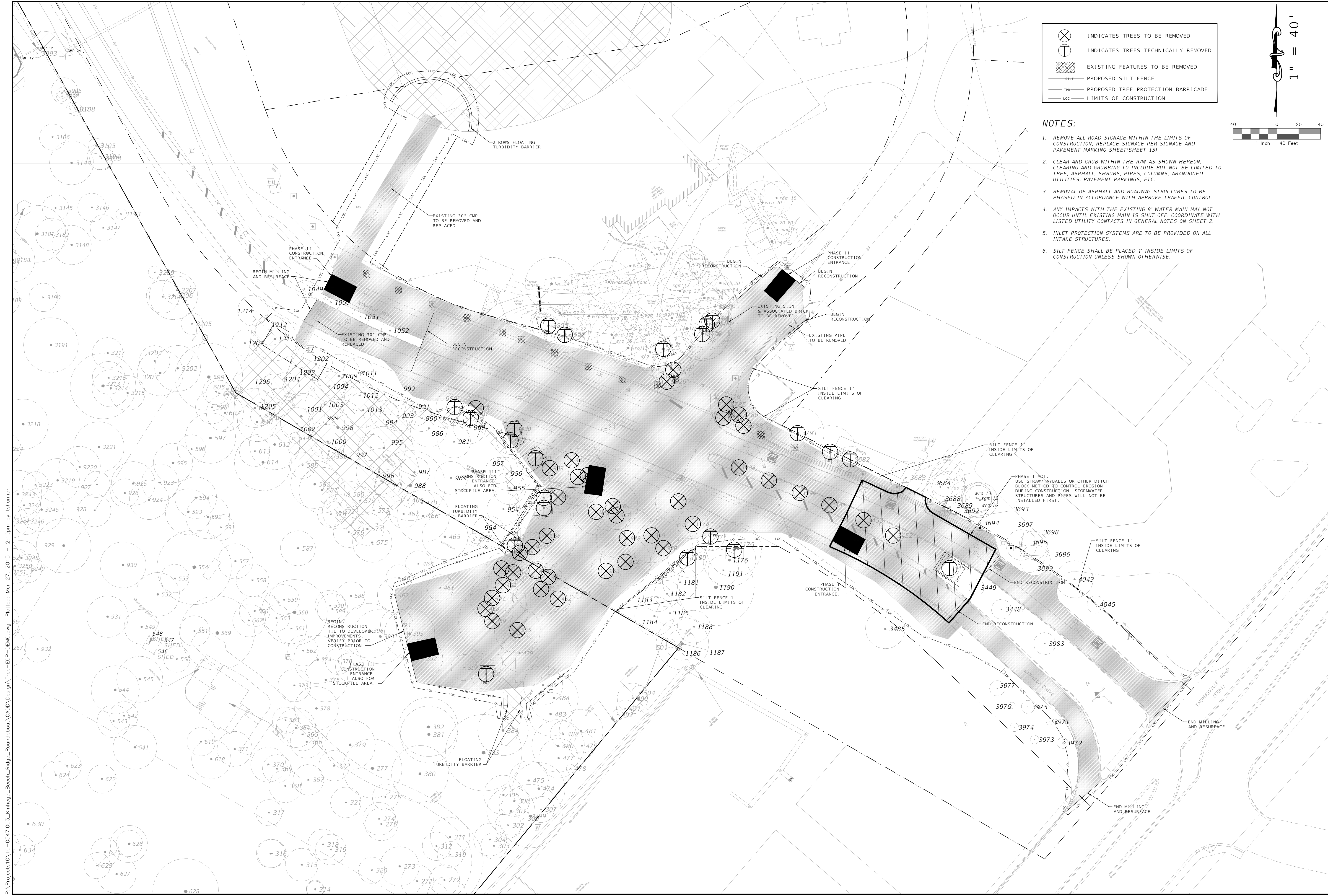
- NOTE:
1. SURVEY HAS BEEN PROVIDED BY MOORE BASS CONSULTING WITH MINOR SUPPLEMENTS BY DRMP, INC.
 2. ALL UTILITY LOCATION HAVE BEEN PROVIDED BY UTILITY OWNERS.
 3. ALL UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.

DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM		EXISTING CONDITIONS KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS LEON COUNTY, FLORIDA		LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501	
DESIGNED BY	BAK	DESIGNED BY	BAK	NO.	DESCRIPTION
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CHECKED BY	BAK	CHECKED BY	BAK		
APPROVED BY	BAK	APPROVED BY	BAK		
PROJECT NO.: 10-0547.003		SCALE: AS SHOWN		DATE: 03/10/2015	
DRAWING: 4		PROJECT NO.: 10-0547.003		SCALE: AS SHOWN	
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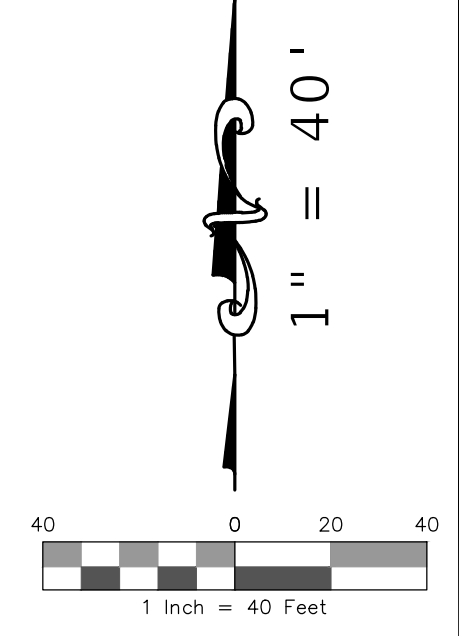
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	INDICATES TREES TO BE REMOVED
	INDICATES TREES TECHNICALLY REMOVED
	EXISTING FEATURES TO BE REMOVED
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION BARRICADE
	LIMITS OF CONSTRUCTION



- NOTES:**
- REMOVE ALL ROAD SIGNAGE WITHIN THE LIMITS OF CONSTRUCTION. REPLACE SIGNAGE PER SIGNAGE AND PAVEMENT MARKING SHEETS(SHEET 15)
 - CLEAR AND GRUB WITHIN THE R/W AS SHOWN HEREON. CLEARING AND GRUBBING TO INCLUDE BUT NOT BE LIMITED TO TREE, ASPHALT, SHRUBS, PIPES, COLUMNS, ABANDONED UTILITIES, PAVEMENT PARKINGS, ETC.
 - REMOVAL OF ASPHALT AND ROADWAY STRUCTURES TO BE PHASED IN ACCORDANCE WITH APPROVE TRAFFIC CONTROL.
 - ANY IMPACTS WITH THE EXISTING 8" WATER MAIN MAY NOT OCCUR UNTIL EXISTING MAIN IS SHUT OFF. COORDINATE WITH LISTED UTILITY CONTACTS IN GENERAL NOTES ON SHEET 2.
 - INLET PROTECTION SYSTEMS ARE TO BE PROVIDED ON ALL INTAKE STRUCTURES.
 - SILT FENCE SHALL BE PLACED 1' INSIDE LIMITS OF CONSTRUCTION UNLESS SHOWN OTHERWISE.

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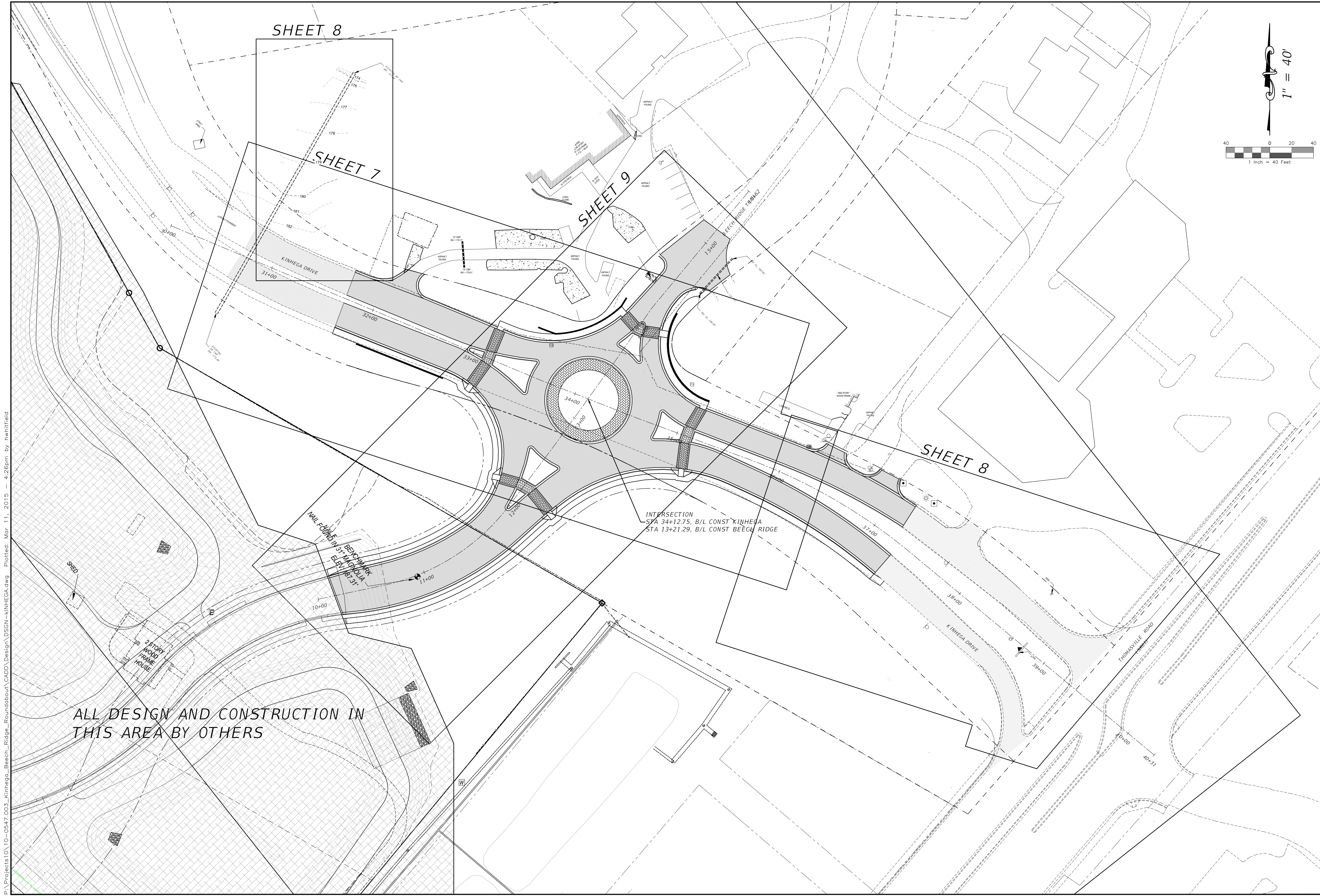
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APPROVED BY	BAK

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 PHONE (850) 606-1500
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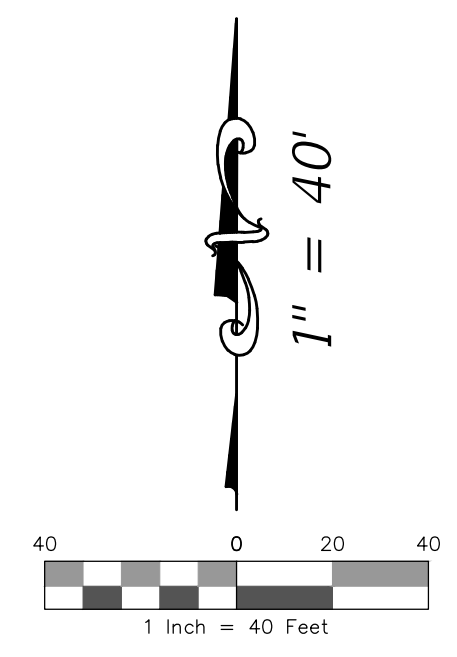
TREE REMOVAL, EROSION CONTROL, AND DEMOLITION
KINHEGA BEECH RIDGE ROUNDABOUT
FINAL PLANS
 LEON COUNTY, FLORIDA

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 Certificate of Authorization No. 0527074
 1435 East Piedmont Drive, Suite 210
 Tallahassee, Florida 32308
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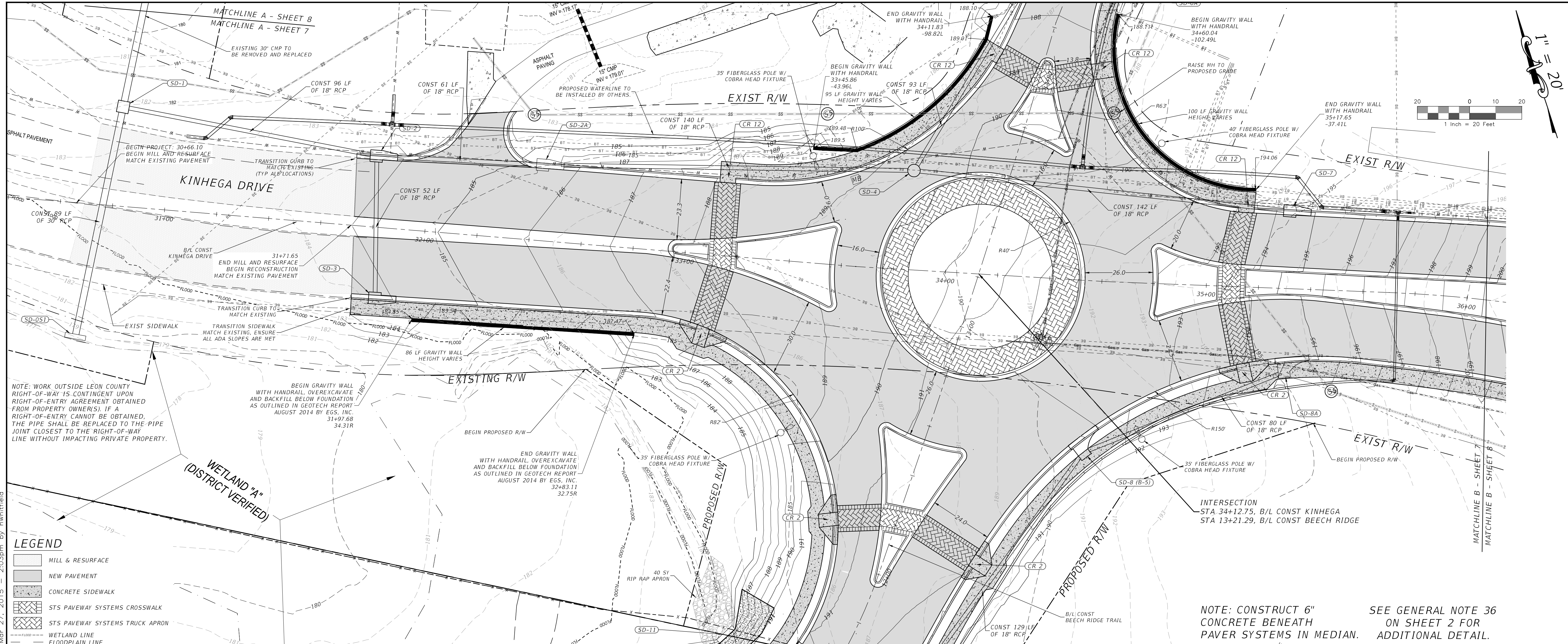


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		LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501	
SHEET LAYOUT KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS LEON COUNTY, FLORIDA		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE	
PROJECT NO.: 10-0547.003	SCALE: AS SHOWN	DATE: 03/10/2015	DRAWING: 6
Bryant King, P.E. Florida Engineer # 51994		DESIGNED BY: BAK DRAWN BY: HW CHECKED BY: BAK APPROVED BY: BAK	
R E V I S I O N S		NO. DATE DESCRIPTION BY	

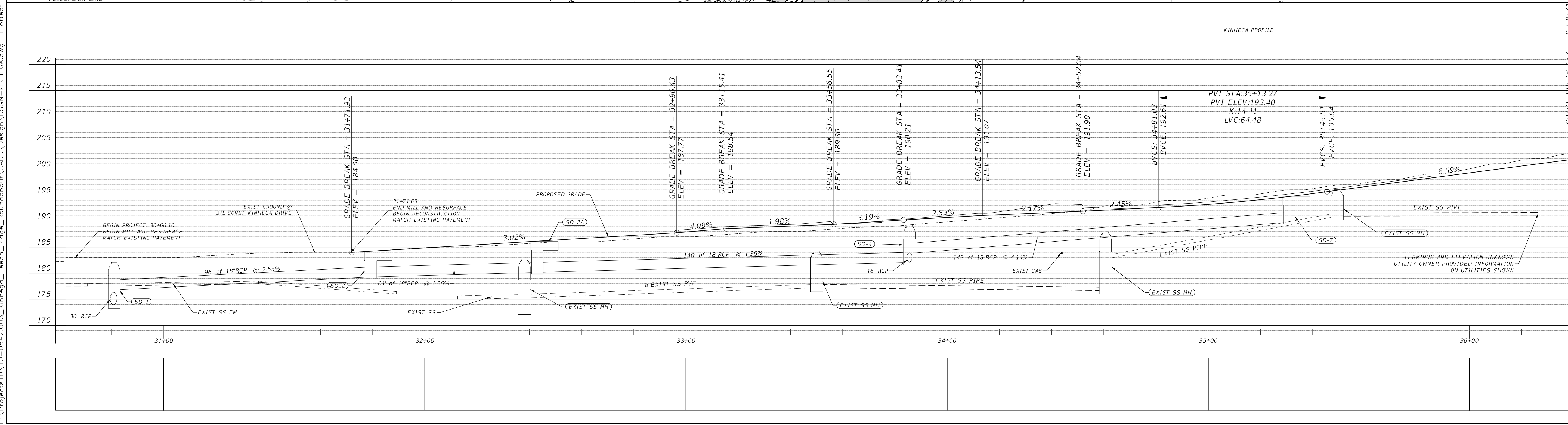


REVISIONS	NO.	DATE	DESCRIPTION	BY
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LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 2280 MICCOSUKEE ROAD
 TALLAHASSEE, FL 32308
 PHONE: (850) 606-1500
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KINHEGA PLAN & PROFILE
KINHEGA & BEECH RIDGE ROUNDABOUT
FINAL PLANS
 LEON COUNTY, FLORIDA

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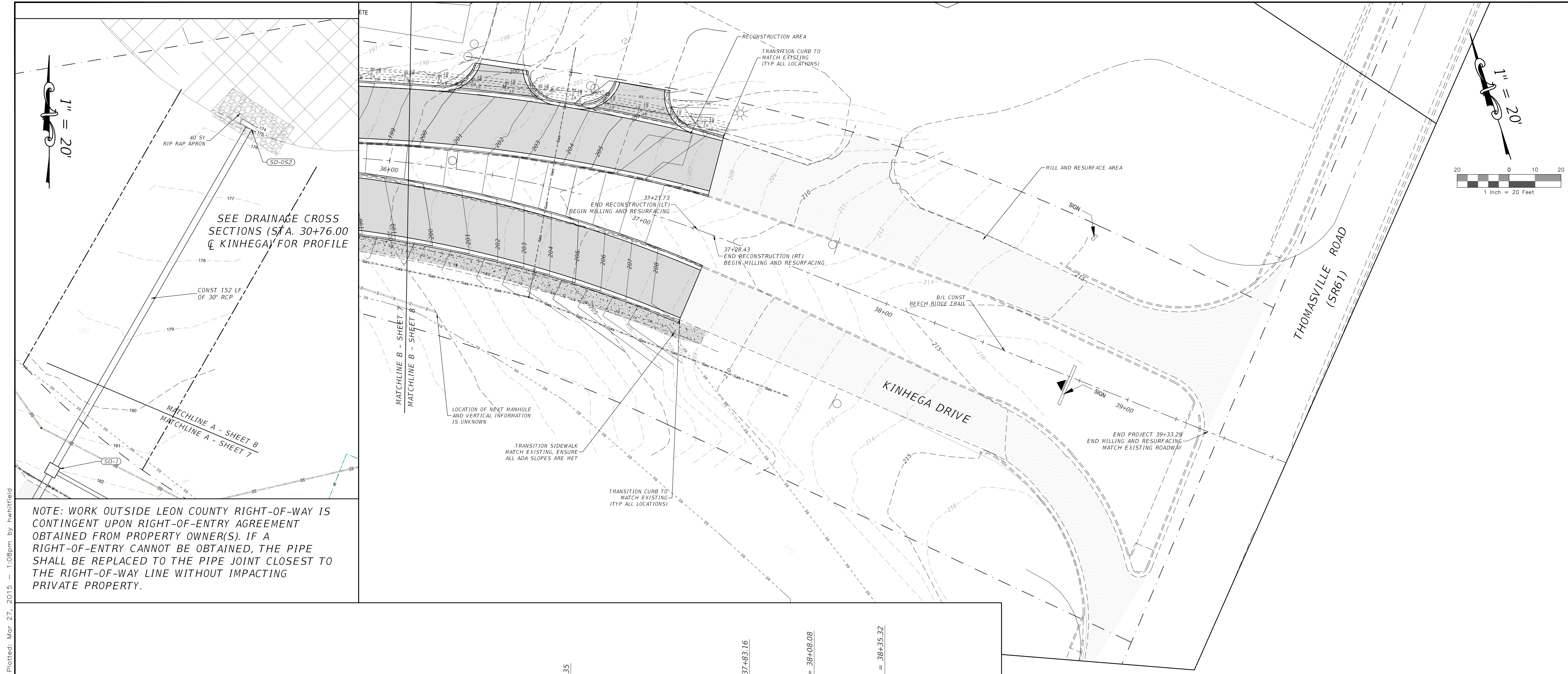
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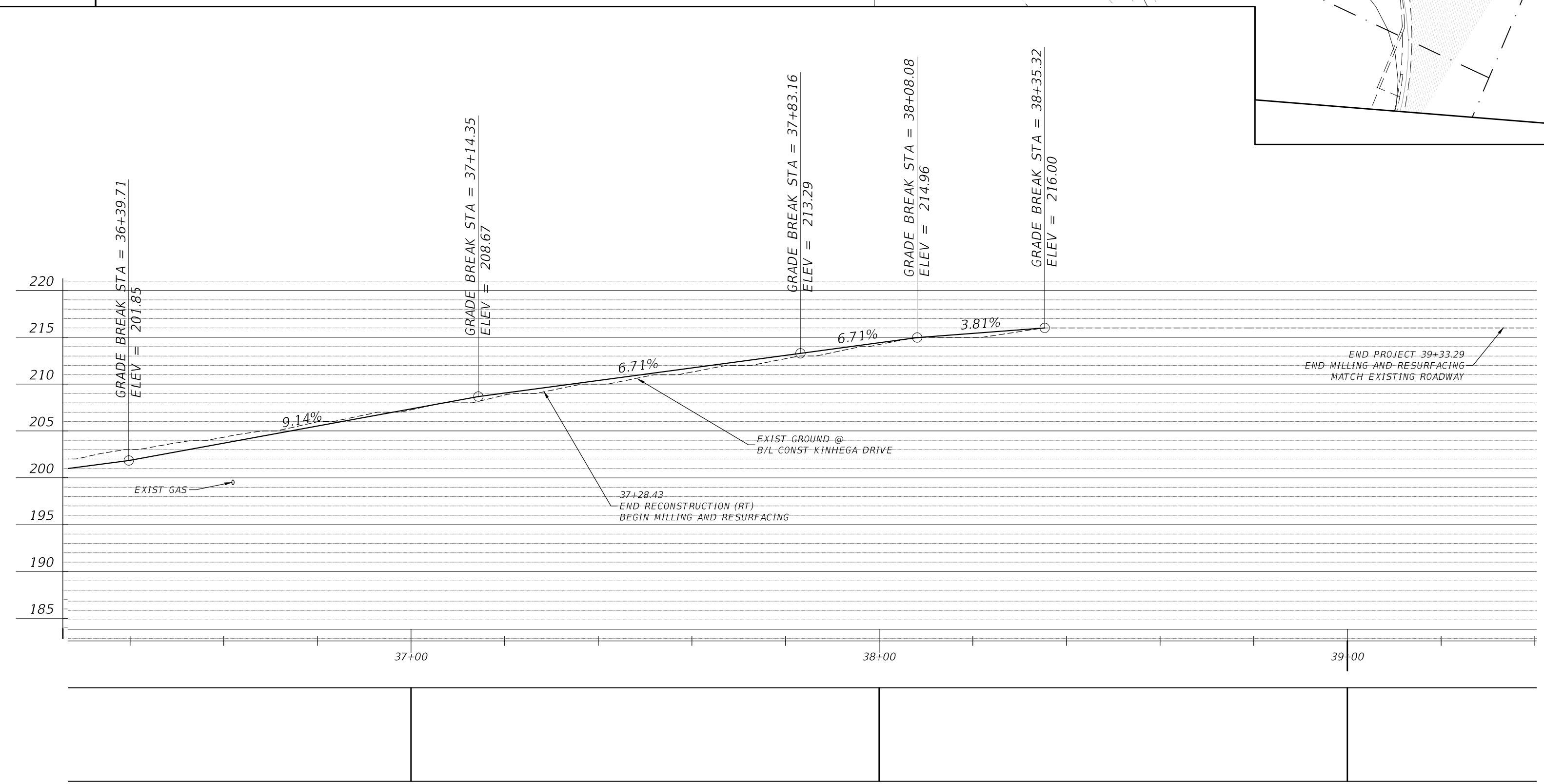
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NOTE: WORK OUTSIDE LEON COUNTY RIGHT-OF-WAY IS CONTINGENT UPON RIGHT-OF-ENTRY AGREEMENT OBTAINED FROM PROPERTY OWNER(S). IF A RIGHT-OF-ENTRY CANNOT BE OBTAINED, THE PIPE SHALL BE REPLACED TO THE PIPE JOINT CLOSEST TO THE RIGHT-OF-WAY LINE WITHOUT IMPACTING PRIVATE PROPERTY.



P:\Projects\10-0547.003_Kinhega_Beech_Ridge_Roundabout\CADD\Design\DRGN-kinhega.dwg Plotted: Mar 27, 2015 1:08pm by hwhitfield

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	BAK
DRAWN BY	HWM
CHECKED BY	BAK
APPROVED BY	BAK

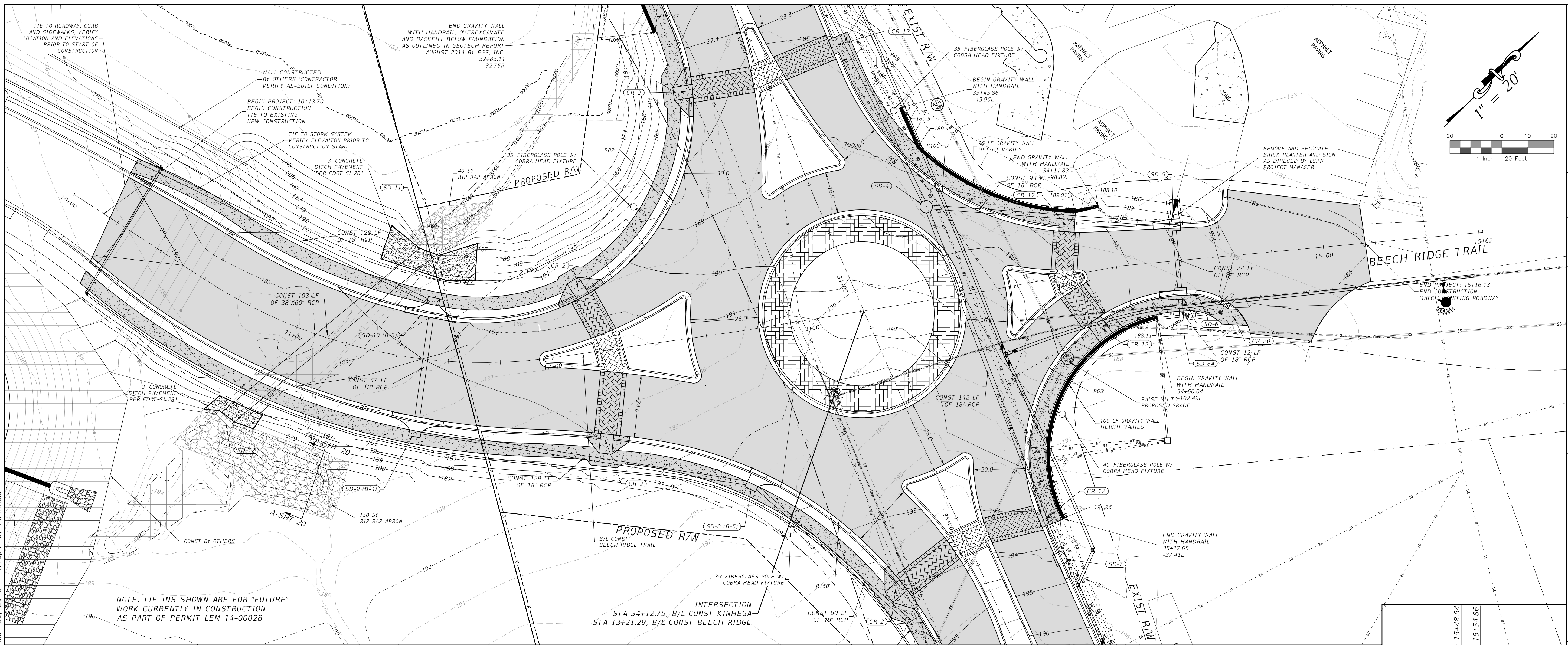
LEON COUNTY DEPARTMENT OF PUBLIC WORKS
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 TALLAHASSEE, FL 32308
 PHONE (850) 606-1500
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KINHEGA PLAN & PROFILE
 KINHEGA & BEECH RIDGE ROUNDABOUT
 FINAL PLANS
 LEON COUNTY, FLORIDA

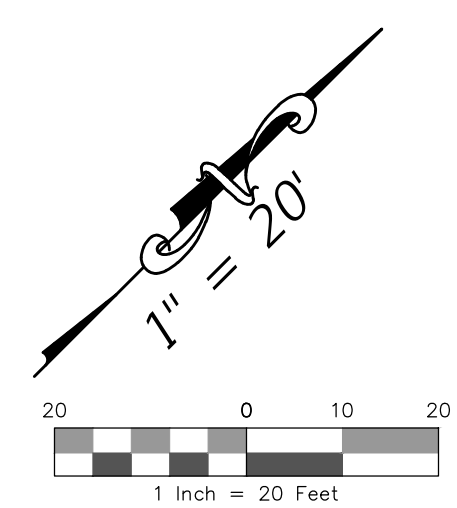
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PROJECT NO.: 10-0547.003
SCALE: AS SHOWN
DATE: 03/27/2015
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DRAWN BY	HWM

CHECKED BY	BAK

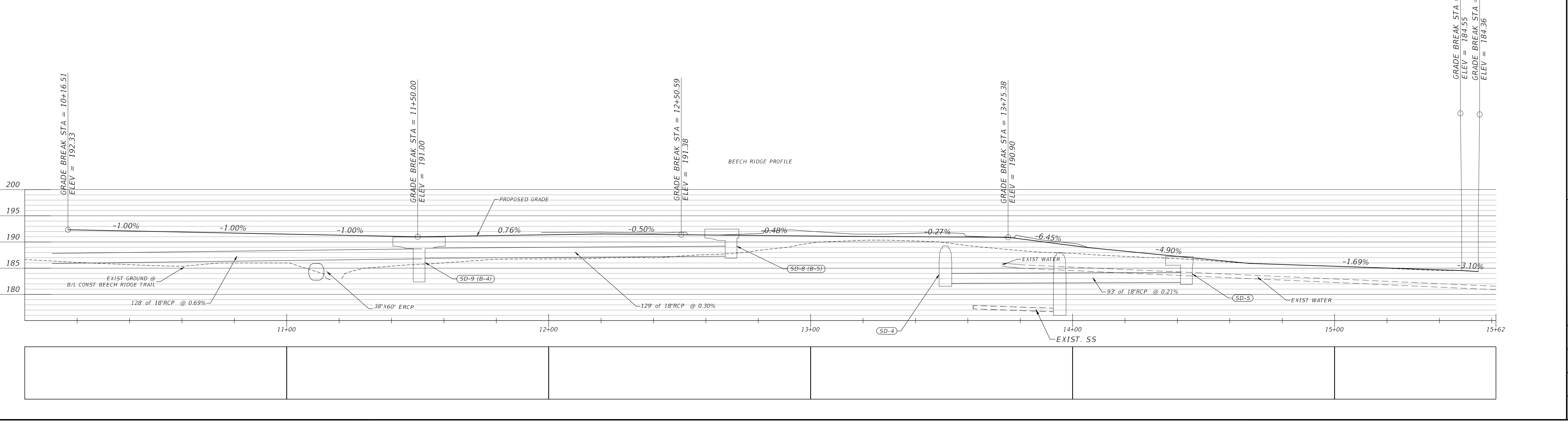
APPROVED BY	BAK

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BEECH RIDGE TRAIL PLAN & PROFILE
KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS
 LEON COUNTY, FLORIDA

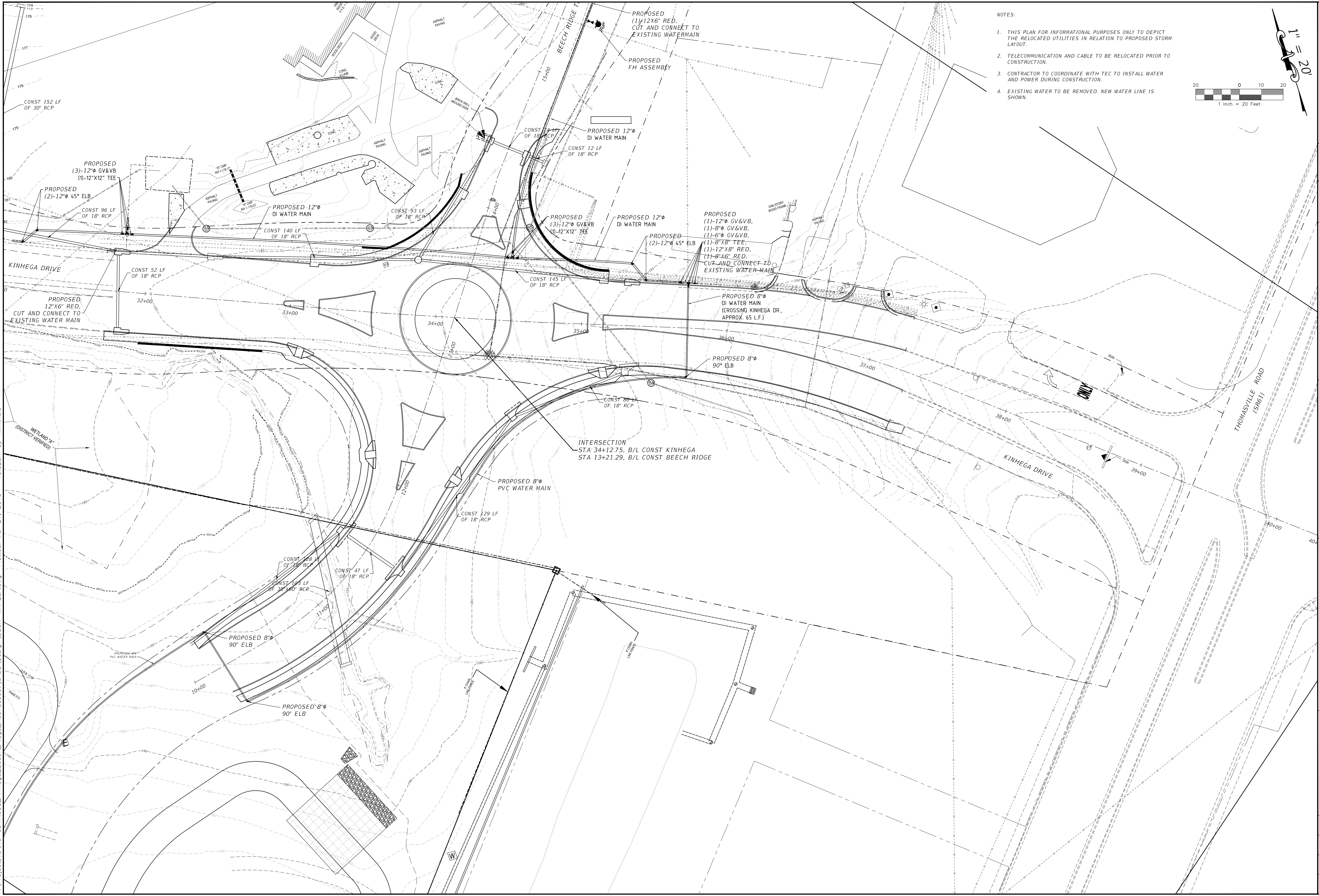
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PROJECT NO.:
10-0547.003
SCALE:
AS SHOWN
DATE:
03/27/2015
DRAWING:
9

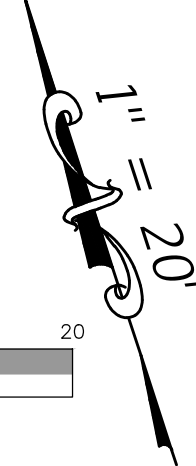
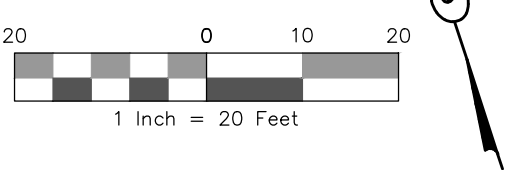


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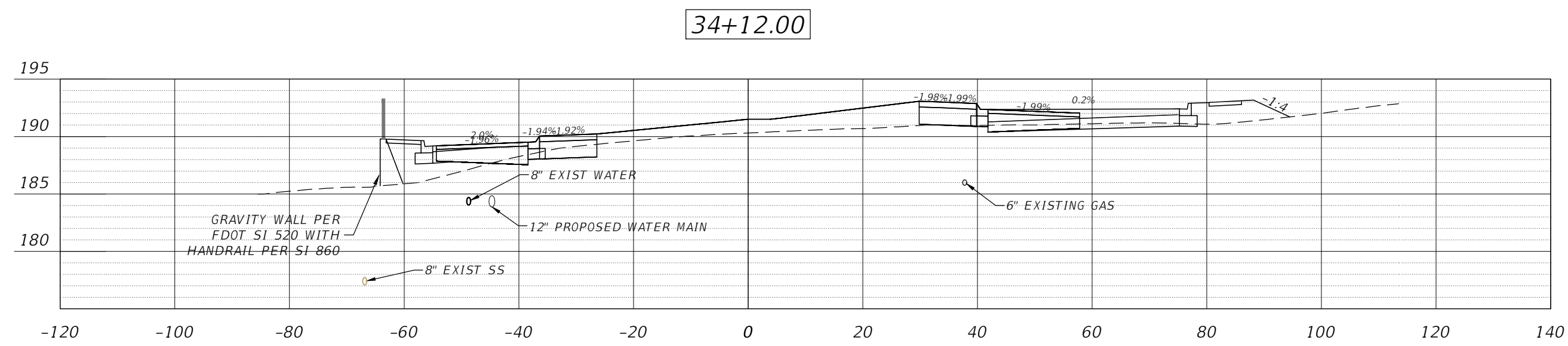
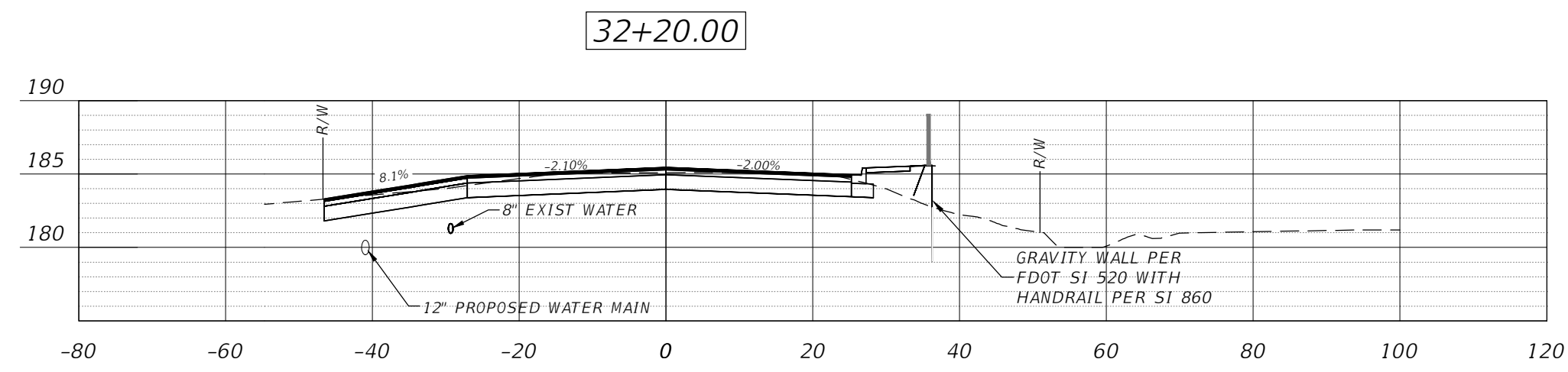
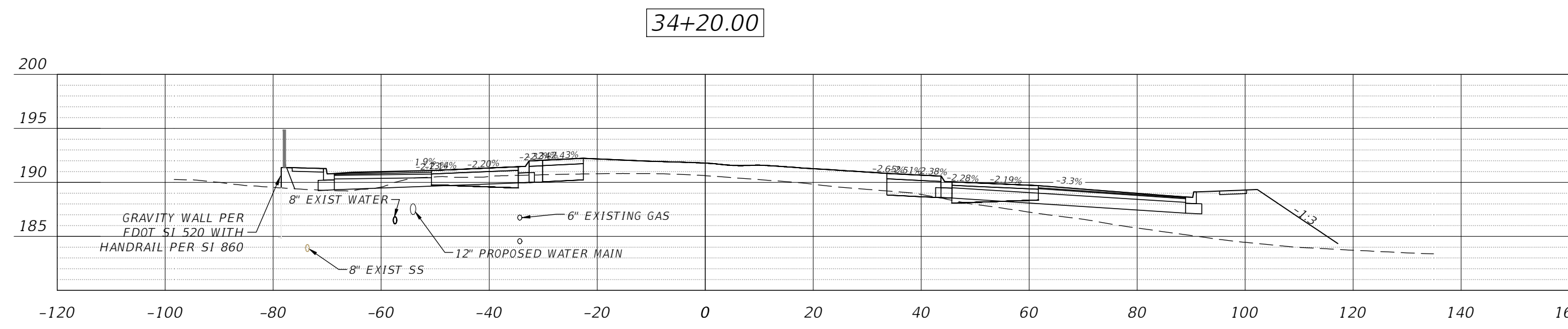
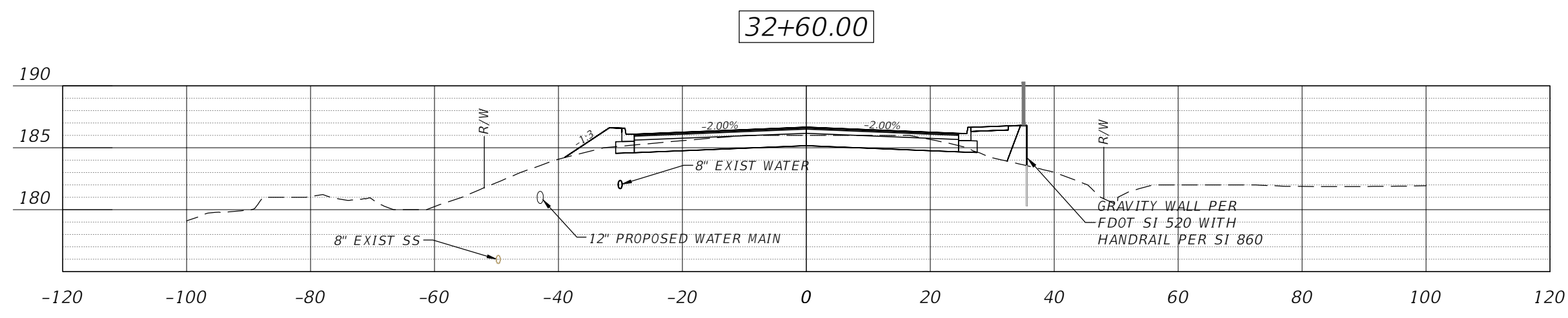
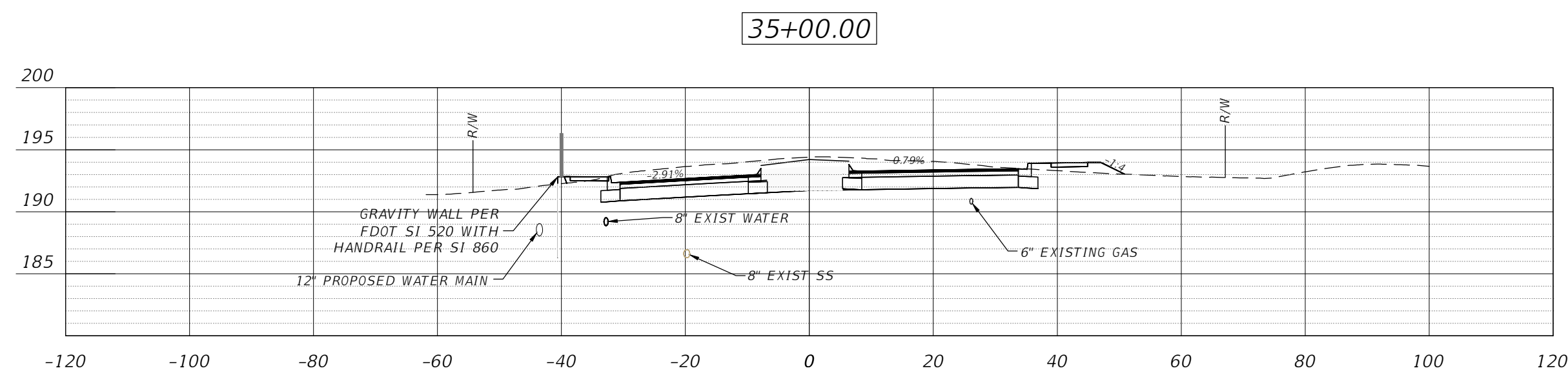
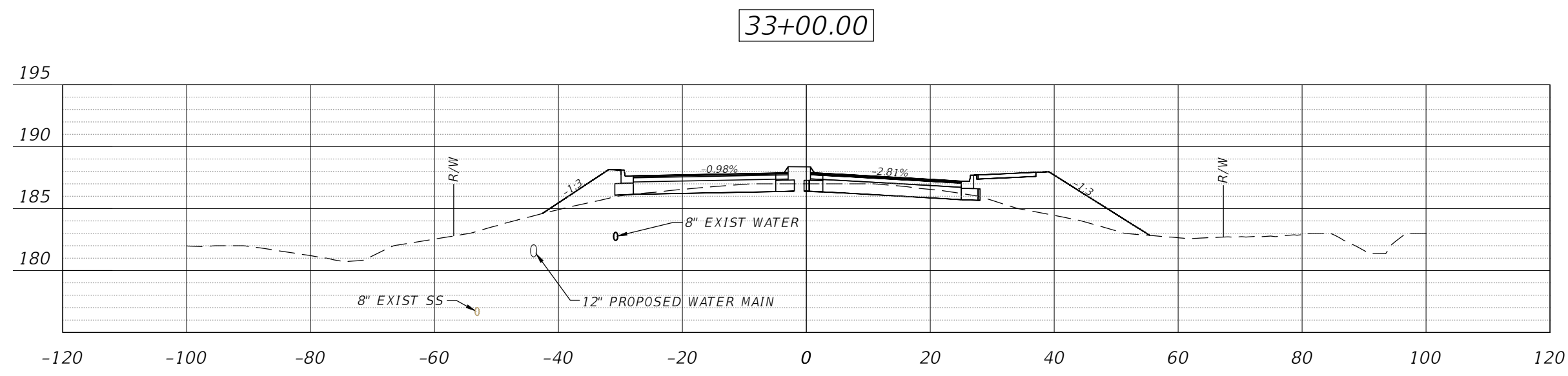
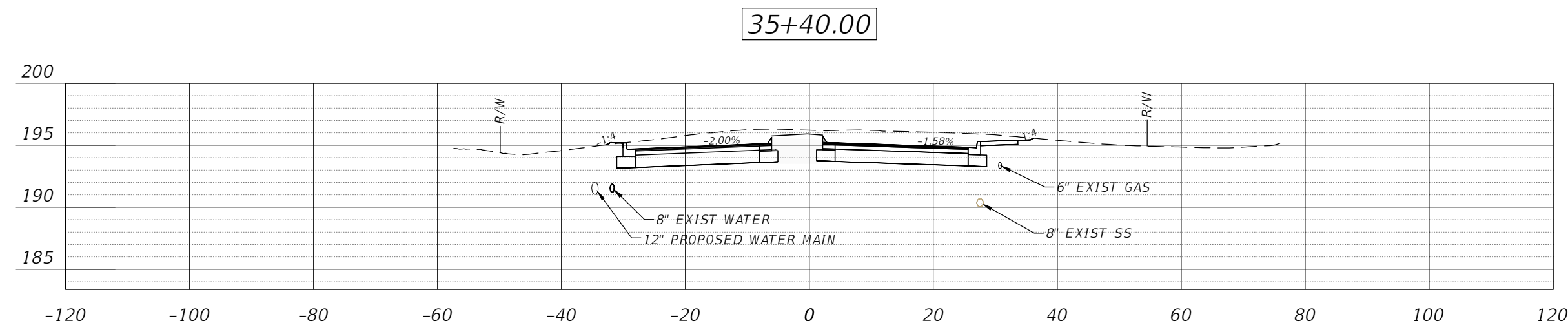
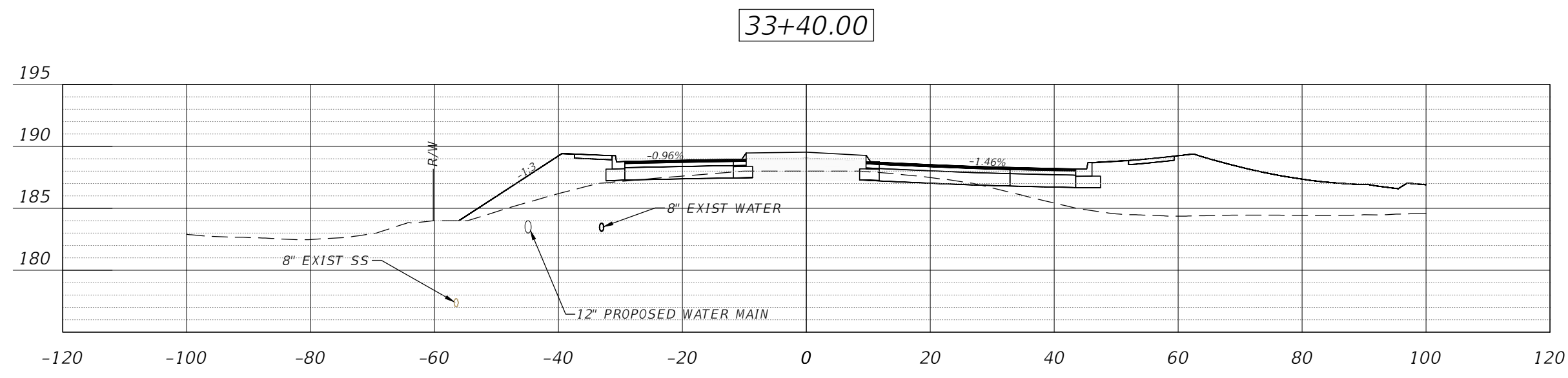
- NOTES:
1. THIS PLAN FOR INFORMATIONAL PURPOSES ONLY TO DEPICT THE RELOCATED UTILITIES IN RELATION TO PROPOSED STORM LAYOUT.
 2. TELECOMMUNICATION AND CABLE TO BE RELOCATED PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO COORDINATE WITH TEC TO INSTALL WATER AND POWER DURING CONSTRUCTION.
 4. EXISTING WATER TO BE REMOVED. NEW WATER LINE IS SHOWN.



REV	NO.	DATE	DESCRIPTION	BY

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LEON COUNTY DEPARTMENT OF PUBLIC WORKS	2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501		
EXISTING UTILITIES RELOCATION	KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS	LEON COUNTY, FLORIDA	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE
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	Bryant King, P.E. Florida Engineer # 51994		
	PROJECT NO.:	10-0547.003	
	SCALE:	AS SHOWN	
	DATE:	03/27/2015	
	DRAWING:	10	



NOTE: ALL EXISTING WATER FROM STATION 31+05 TO 35+79 TO BE REMOVED. SEE UTILITIES RELOCATION (SHEET 2) FOR FURTHER DETAILS.

SCALE:
H: 1"=20'
V: 1"=10'

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: BAK
DRAWN BY: H/W
CHECKED BY: BAK
APPROVED BY: BAK

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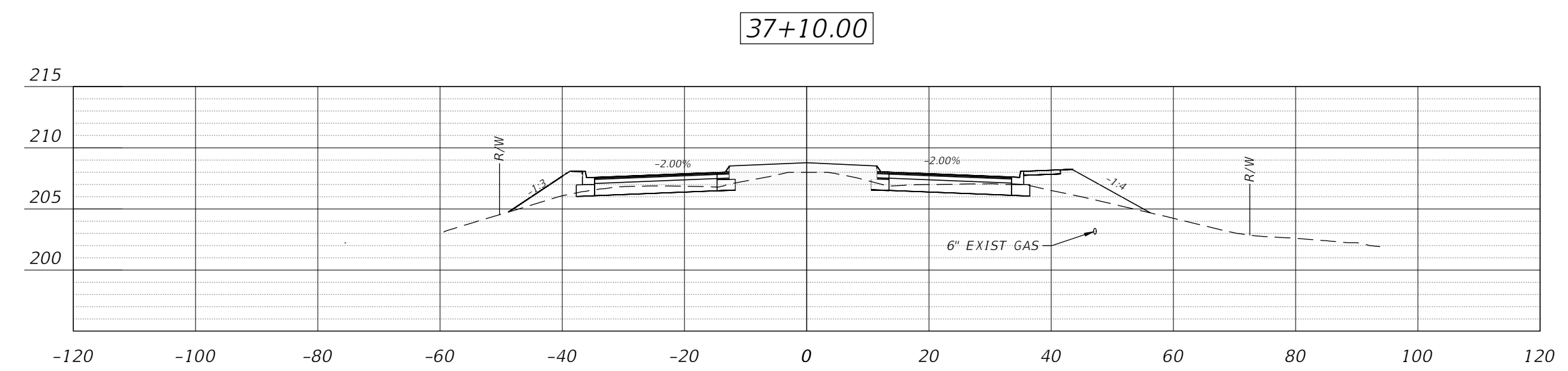
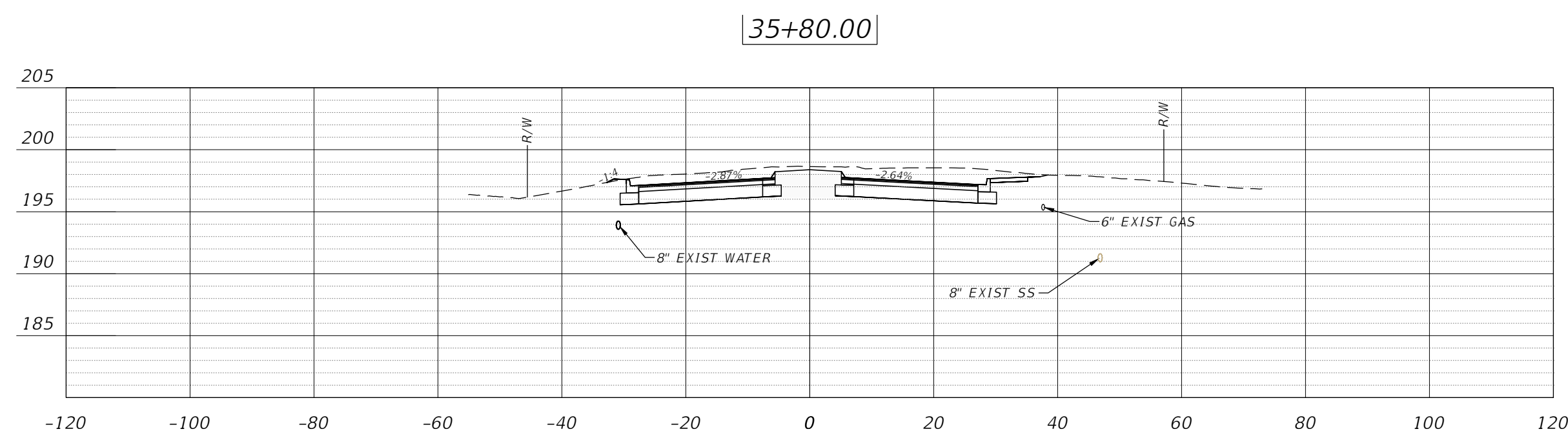
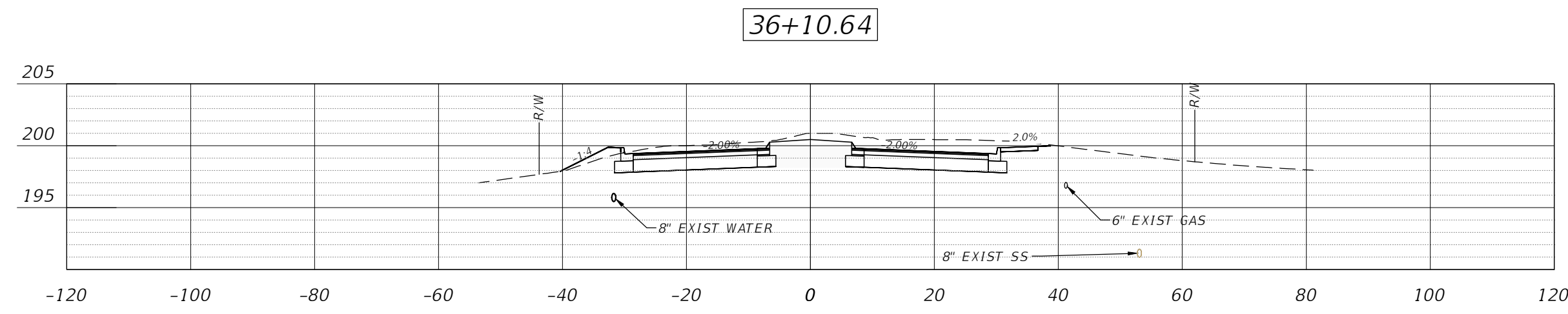
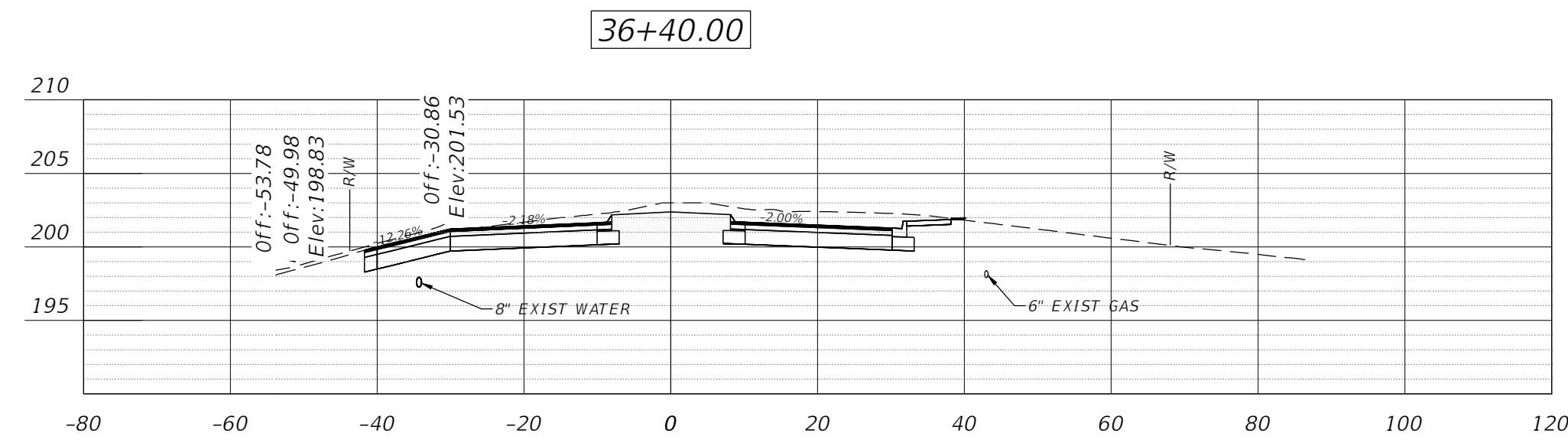
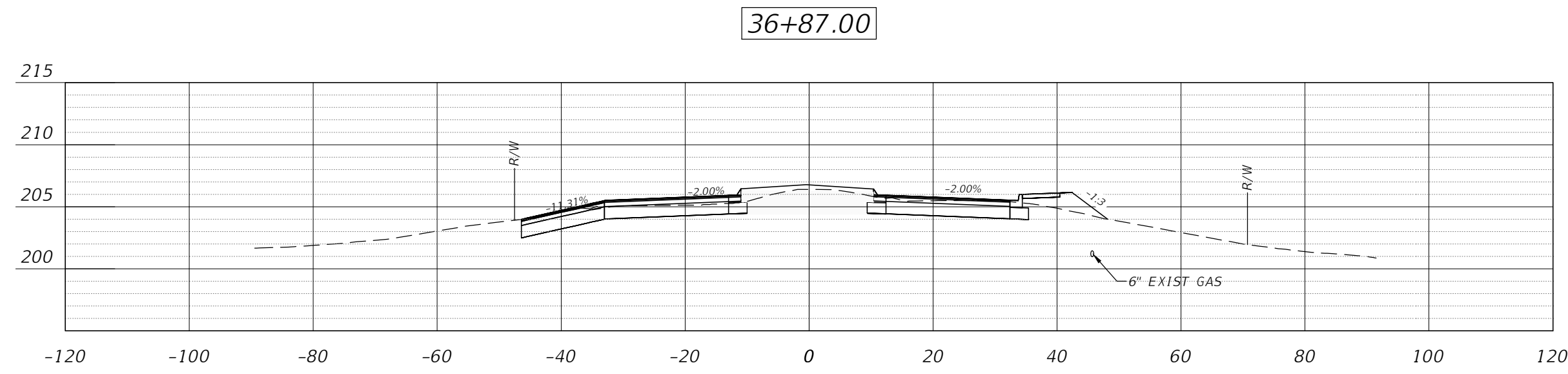
KINHEGA CROSS SECTIONS
KINHEGA & BEECH RIDGE
ROUNDAABOUT
FINAL PLANS
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Bryant King, P.E.
Florida Engineer # 51994
PROJECT NO.: 10-0547.003
SCALE: AS SHOWN
DATE: 03/27/2015
DRAWING: 11

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SCALE:
H: 1"=20'
V: 1"=10'

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KINHEGA CROSS SECTIONS
KINHEGA & BEECH RIDGE
ROUNDAABOUT
FINAL PLANS
LEON COUNTY, FLORIDA

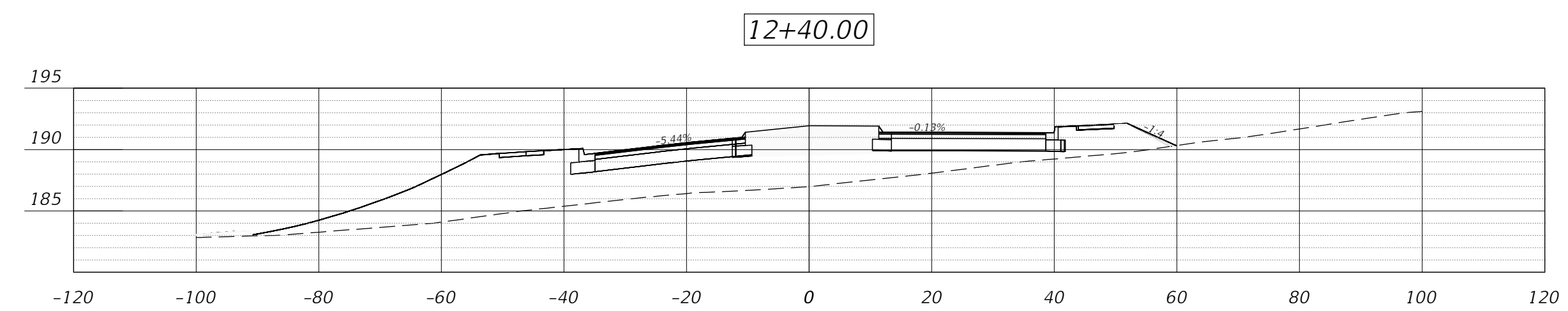
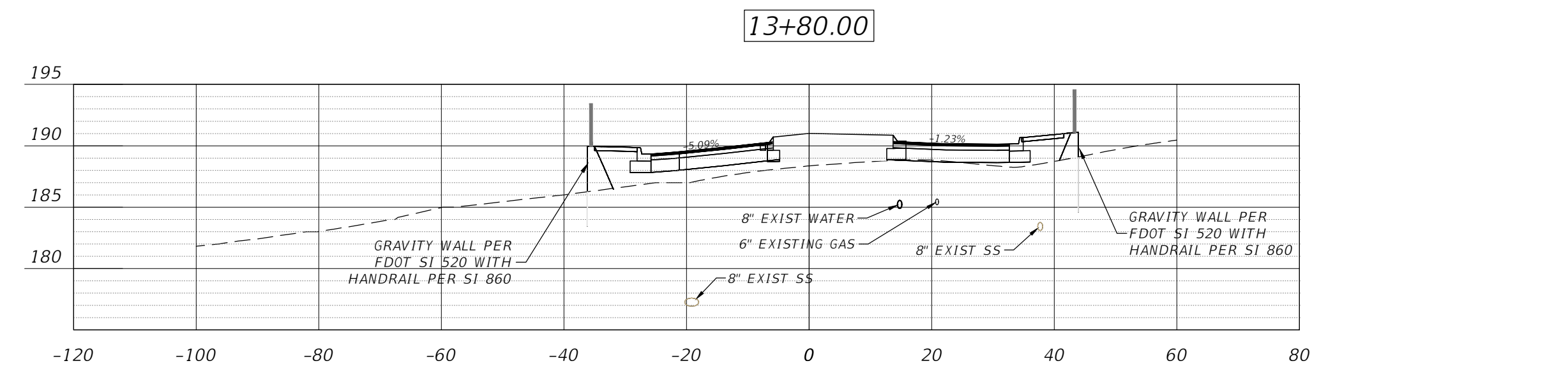
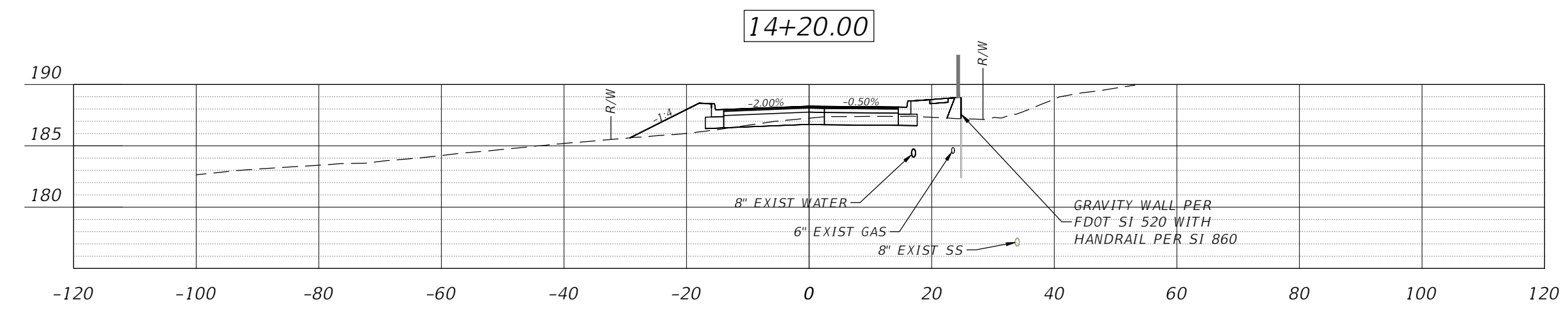
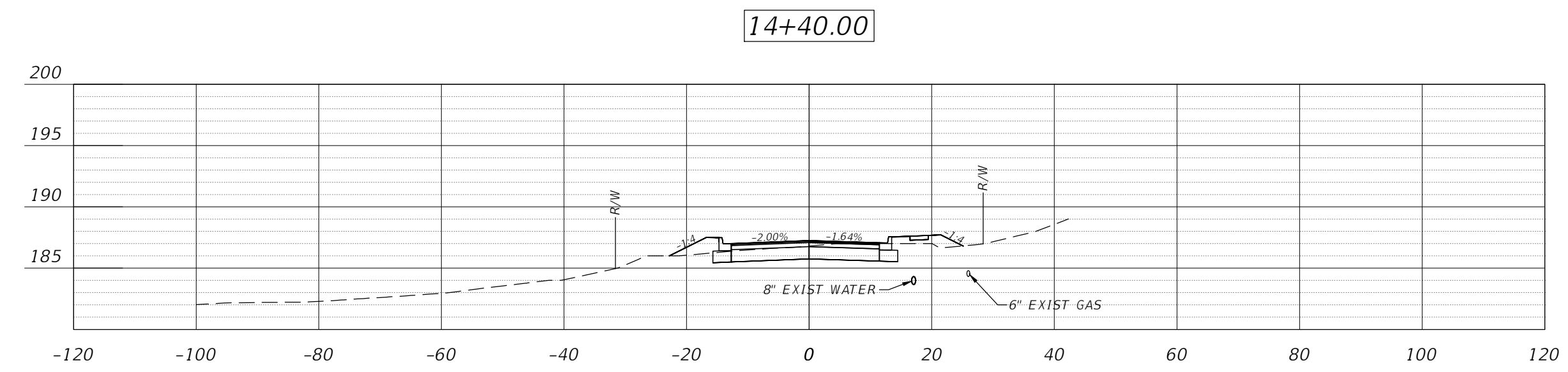
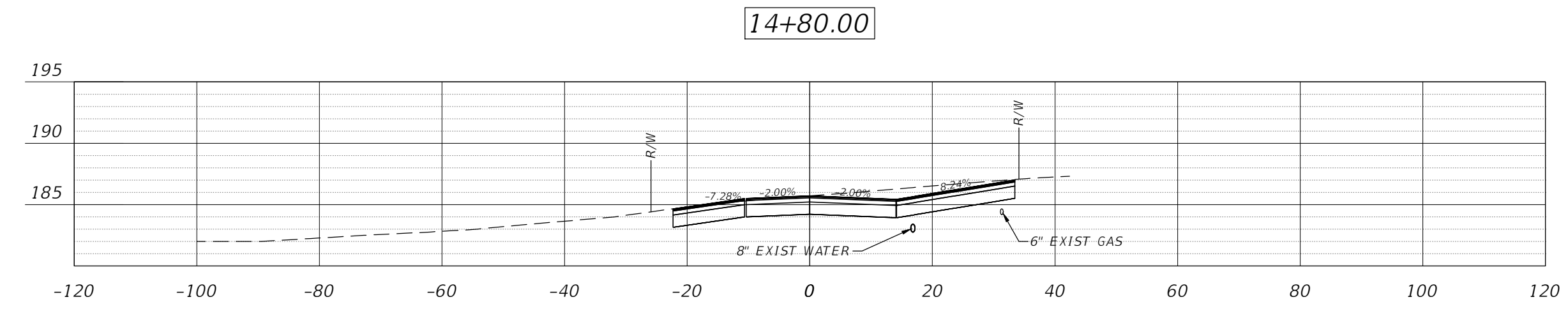
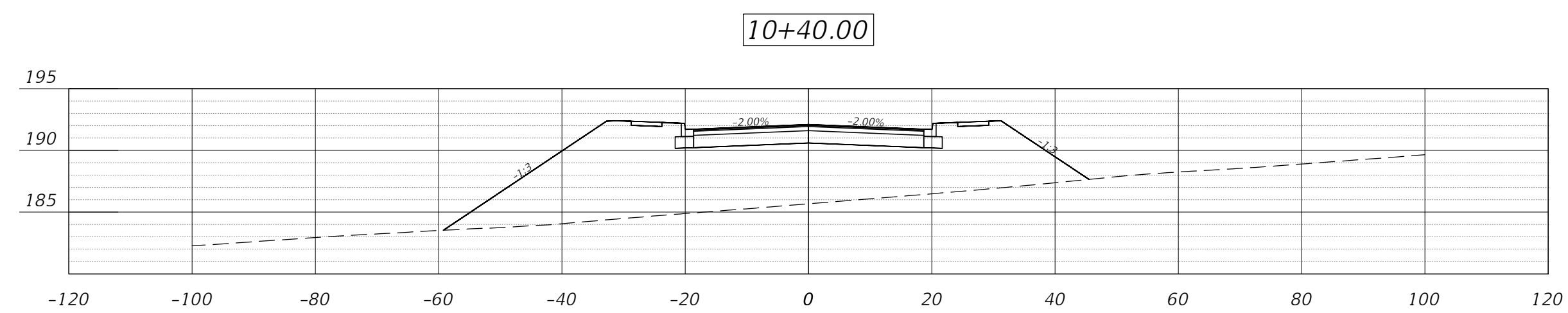
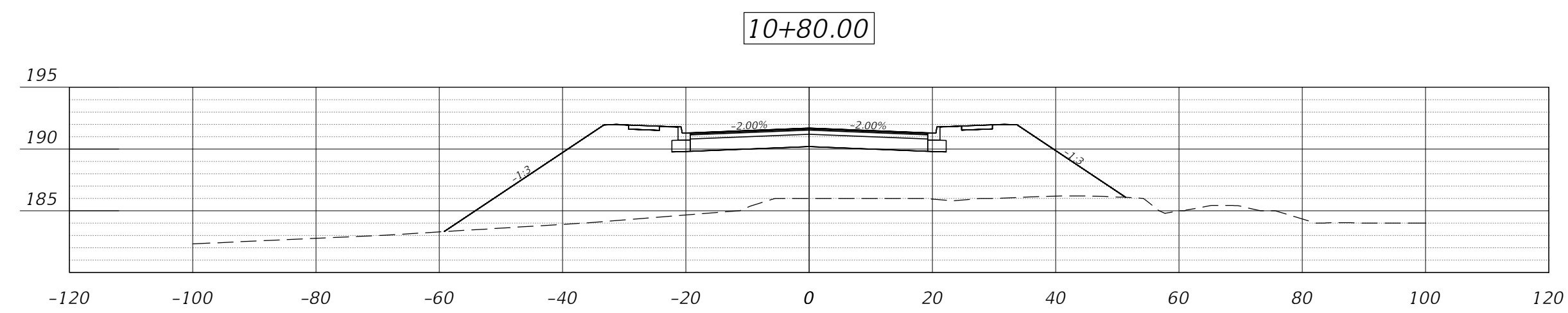
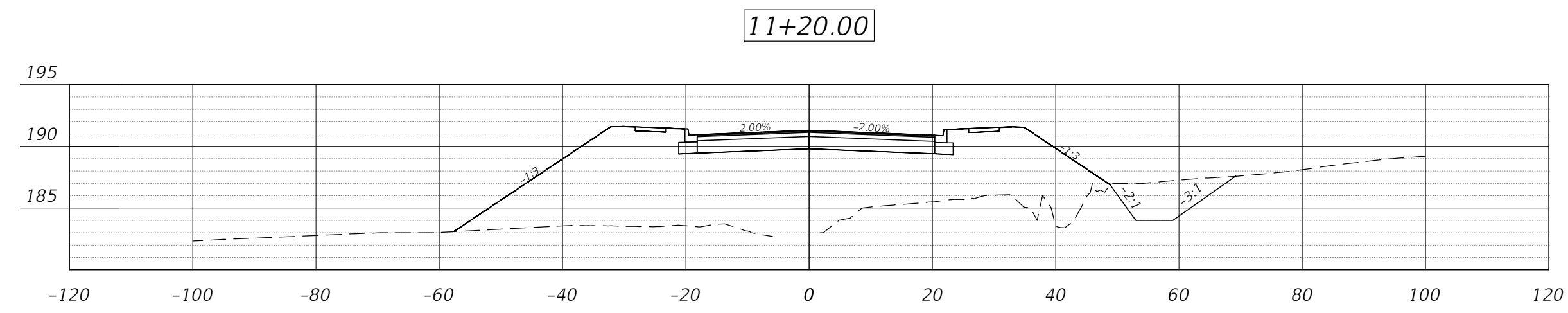
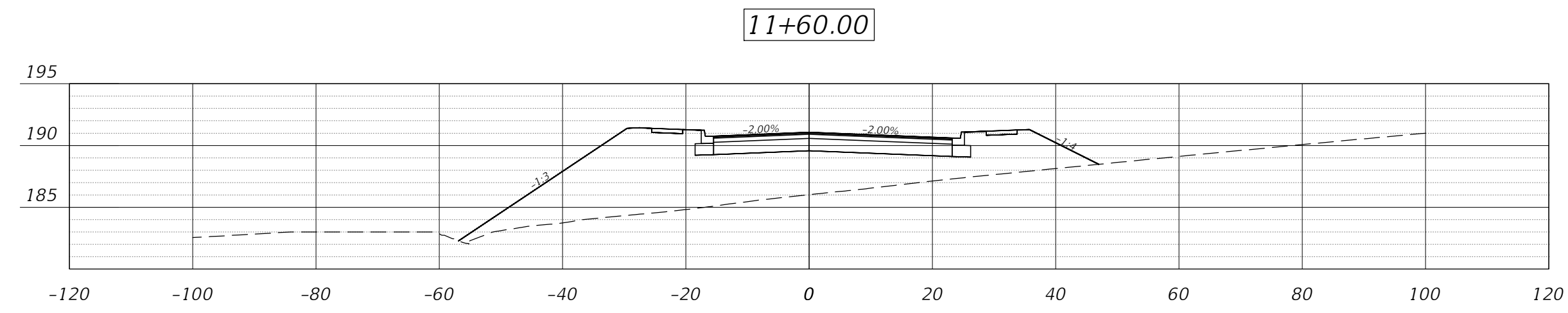
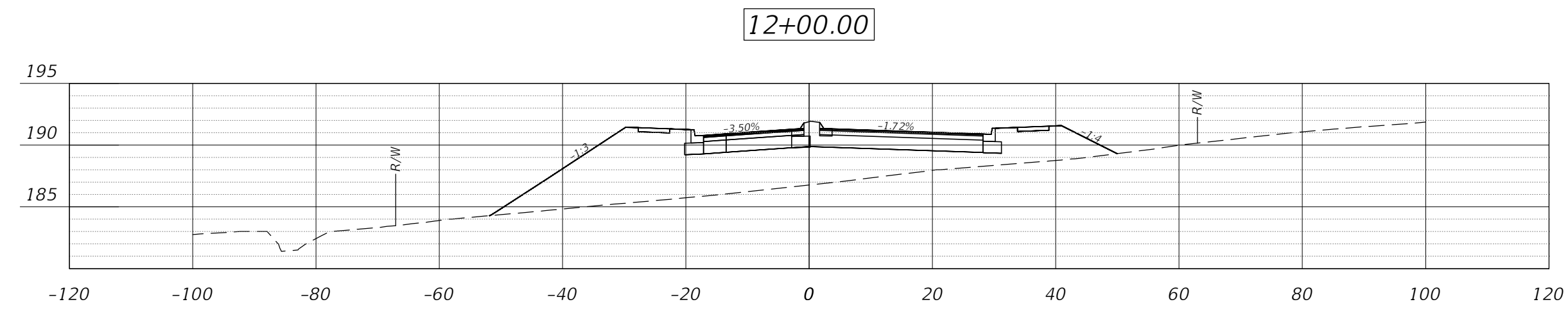
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Bryant King, P.E.
Florida Engineer # 51994
PROJECT NO.:
10-0547.003

SCALE:
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DATE:
03/27/2015
DRAWING:
12

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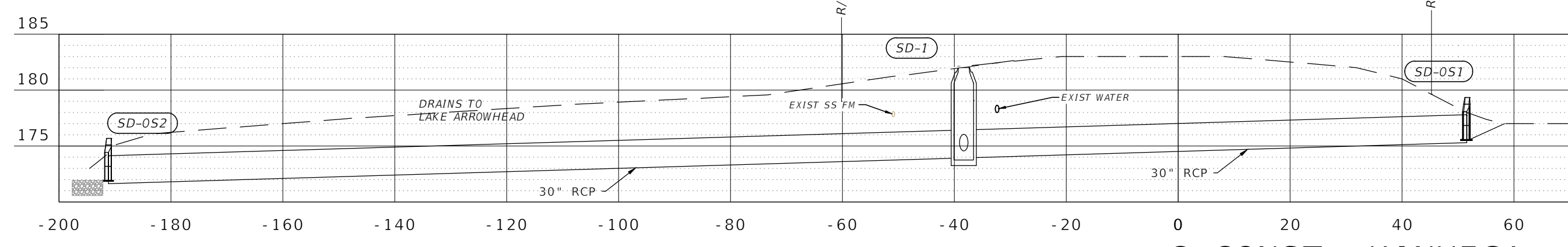


SCALE:
H: 1"=20'
V: 1"=10'

REVISIONS		NO.	DATE	DESCRIPTION	BY
DESIGNED BY	BAK				
DRAWN BY	HW				
CHECKED BY	BAK				
APPROVED BY	BAK				
<p>LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501</p>					
<p>BEECH RIDGE CROSS SECTIONS KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS LEON COUNTY, FLORIDA</p>					
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<p>Bryant King, P.E. Florida Engineer # 51994 PROJECT NO.: 10-0547.003</p>					
<p>SCALE: AS SHOWN</p>					
<p>DATE: 03/27/2015</p>					
<p>DRAWING: 13</p>					
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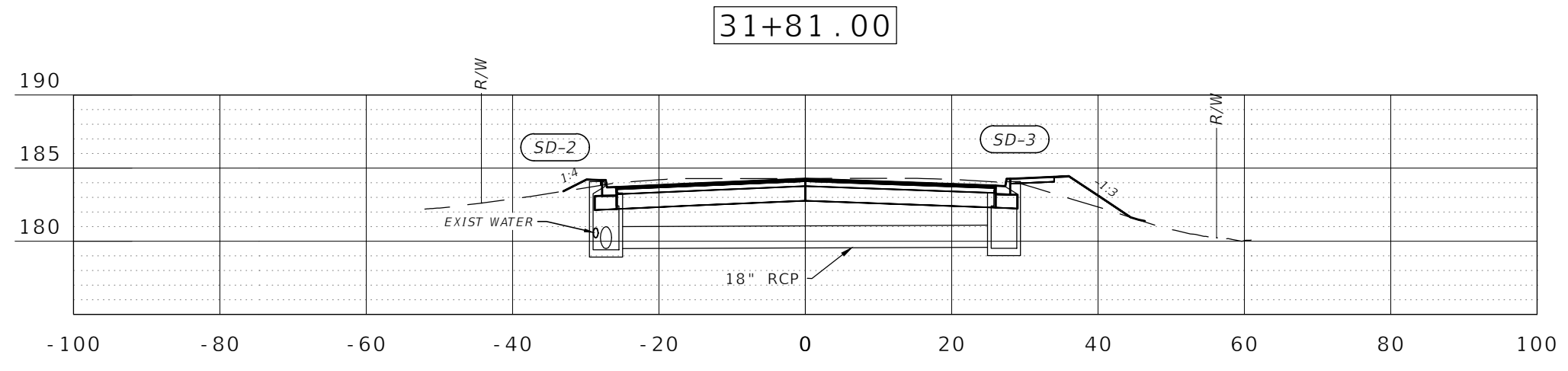
SD-0S2
STA 31+00.16 (189.65 LT)
CONST. Index No. 250 - Straight Concrete Endwall - Single 30" RCP
RIM EL. 175.68
FL 171.64 SW



SD-1
STA 30+81.00 (38.00 LT)
CONST. Index No. 201 - Type 8 Manhole (Concentric Cone with 1 or 2-Piece Cover (Center), Rectangular Bottom)
RIM EL. 182.11
FL 177.00 SE
FL 173.93 SW
FL 173.94 (N & S, EXIST.)

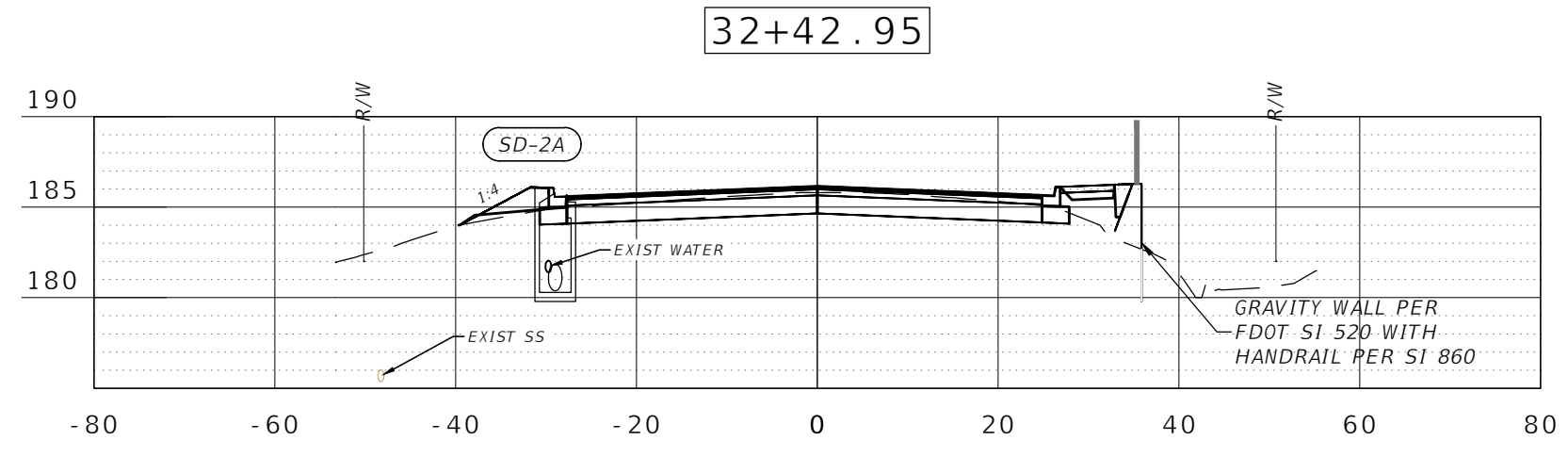
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CONST. Index No. 250 - Straight Concrete Endwall - Single 30" RCP
RIM EL. 179.33
FL 175.29 NE

SD-2
STA 31+79.32 (27.17 LT)
CONST. Index No. 211 - Curb Inlet Type 5 (Right) with Rectangular Structure Bottom
INLET EL. 183.72
FL 179.50 E
FL 179.50 S
FL 179.50 NW

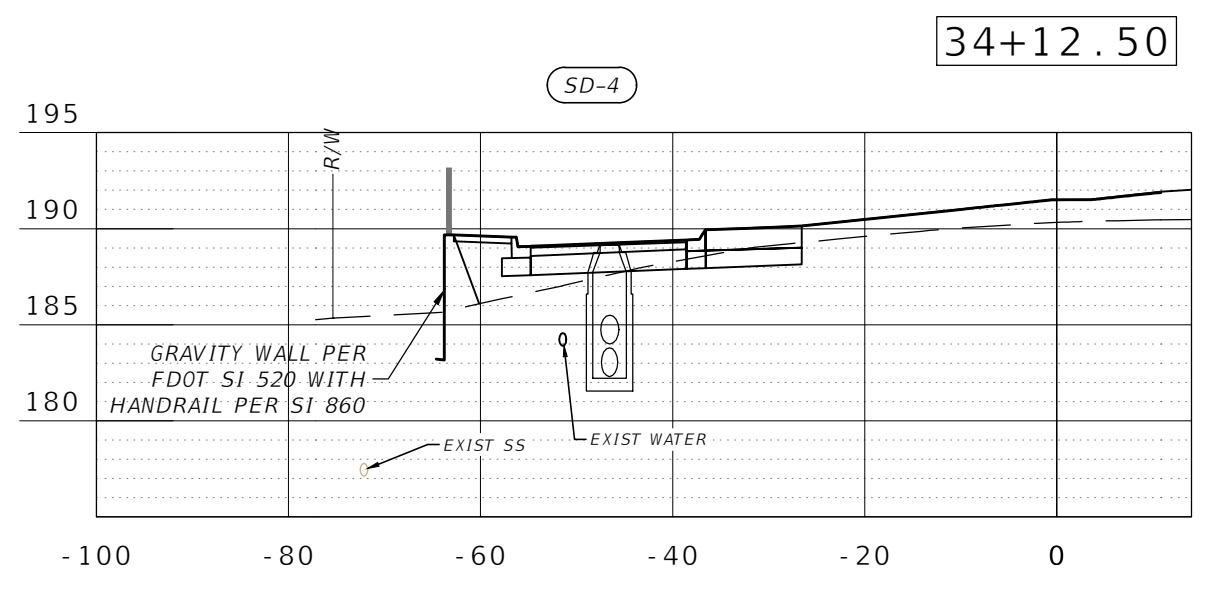


SD-3
STA 31+83.09 (27.09 RT)
CONST. Index No. 211 - Curb Inlet Type 5 (Left) with Rectangular Structure Bottom
INLET EL. 183.72
FL 179.60 N

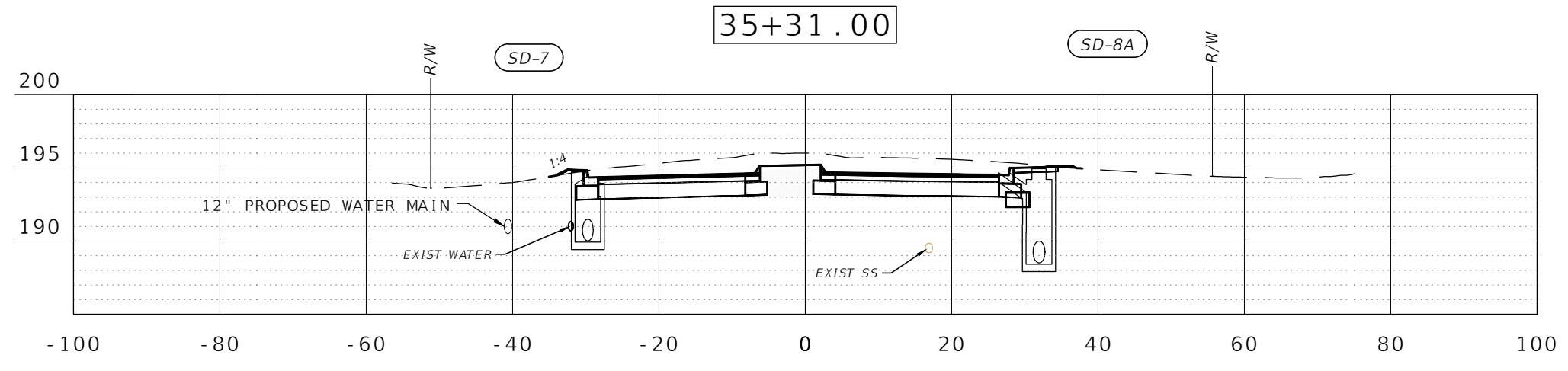
SD-2A
STA 32+43.08 (28.99 LT)
CONST. Index No. 211 - Curb Inlet Type 5 (Right) with Rectangular Structure Bottom
INLET EL. 185.70
FL 180.37 E
FL 180.37 W



SD-4
STA 33+85.62 (38.02 LT)
CONST. Index No. 201 - Type 8 Manhole (Concentric Cone with 1 or 2-Piece Cover (Center), Round Bottom)
RIM EL. 189.25
FL 184.00 SE
FL 182.30 NE
FL 182.30 W



SD-7
STA 35+31.06 (29.70 LT)
CONST. Index No. 211 - Curb Inlet Type 5 (Right) with Rectangular Structure Bottom
INLET EL. 194.36
FL 190.00 NW



SD-8A
STA 35+31.00 (31.94 RT)
CONST. Index No. 210 - Curb Inlet Type 1 (Left) with Rectangular Bottom
INLET EL. 194.67
FL 188.50 W

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KINHEGA & BEECH RIDGE ROUNDABOUT
FINAL PLANS
LEON COUNTY, FLORIDA

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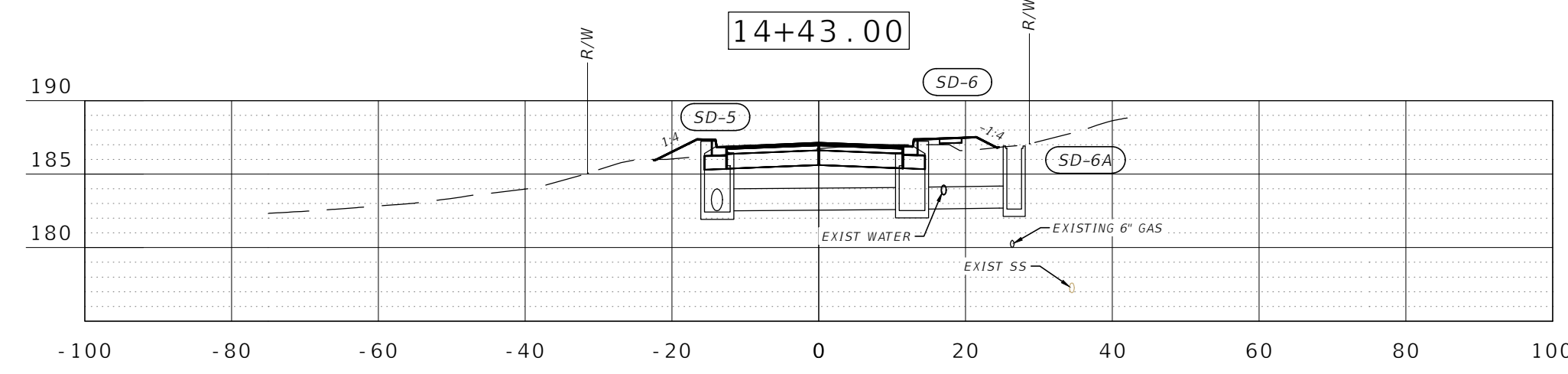
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Bryant King, P.E. Florida Engineer # 51994
PROJECT NO.: 10-0547.003
SCALE: AS SHOWN
DATE: 03/10/2015
DRAWING: 14

SCALE:
H: 1"=20'
V: 1"=10'

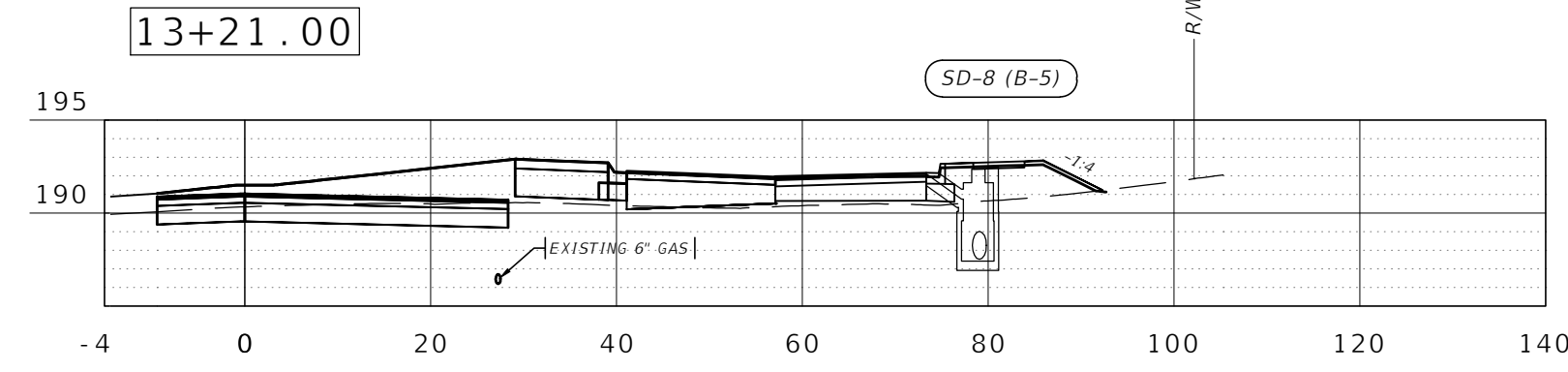
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SD-5
 STA 14+43.46 (13.80 LT)
 CONST. Index No. 211 - Curb
 Inlet Type 5 (Left) with
 Rectangular Structure Bottom
 INLET EL. 186.86
 FL 182.50 SE
 FL 182.50 SW



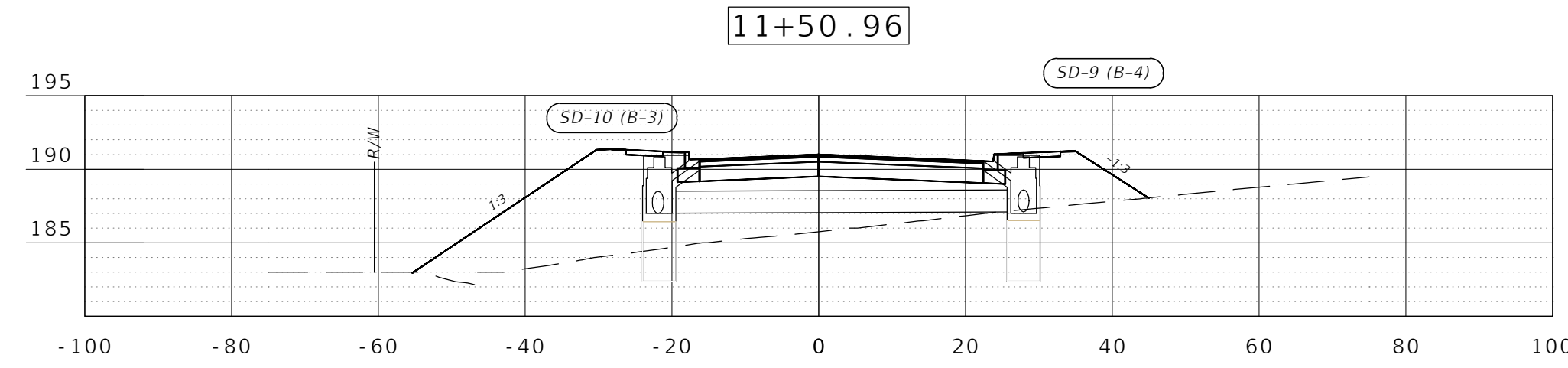
SD-6
 STA 14+43.46 (12.72 RT)
 CONST. Index No. 211 - Curb
 Inlet Type 5 (Right) with
 Rectangular Structure Bottom
 INLET EL. 186.86
 FL 182.60 SE
 FL 182.60 NW

SD-6A
 STA 14+43.04 (26.64 RT)
 CONST. Index No. 232 - Type C
 DBI
 INLET EL. 186.55
 FL 182.70 NW



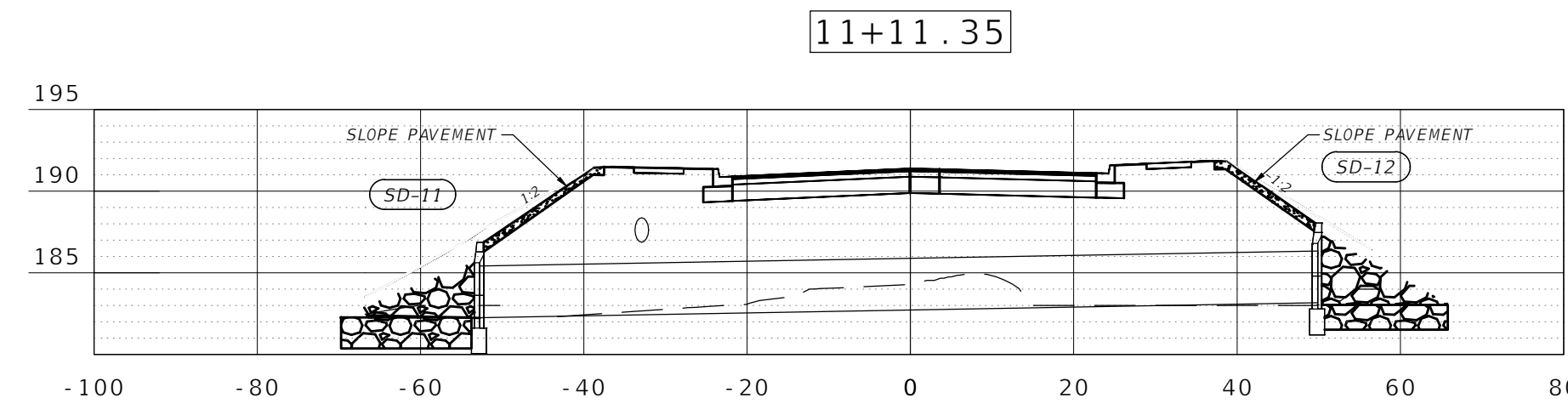
SD-8 (B-5)
 STA 12+69.60 (58.93 RT)
 CONST. Index No. 210 - Curb
 Inlet Type 1 (Left) with
 Rectangular Bottom
 INLET EL. 192.09
 FL 187.50 E
 FL 187.50 SW

SD-10 (B-3)
 STA 11+51.60 (21.68 LT)
 CONST. Index No. 210 - Curb
 Inlet Type 2 with Rectangular
 Bottom
 INLET EL. 190.56
 FL 187.00 SE
 FL 187.00 W



SD-9 (B-4)
 STA 11+50.54 (27.89 RT)
 CONST. Index No. 210 - Curb
 Inlet Type 2 with Rectangular
 Bottom
 INLET EL. 190.56
 FL 187.10 NE
 FL 187.10 NW

SD-11
 STA 11+47.20 (42.03 LT)
 CONST. Index No. 250 - Straight
 Concrete Endwalls - Single
 38x60 RCP
 INLET EL. 186.50
 FL 182.25 S



SD-12
 STA 10+89.60 (43.70 RT)
 CONST. Index No. 250 - Straight
 Concrete Endwall - Single 38x60
 RCP
 INLET EL. 187.67
 FL 183.17 N

CONST. BEECH RIDGE

SCALE:
 H: 1"=20'
 V: 1"=10'

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	BAK	DRAWN BY	HWW	CHECKED BY	BAK	APPROVED BY	BAK

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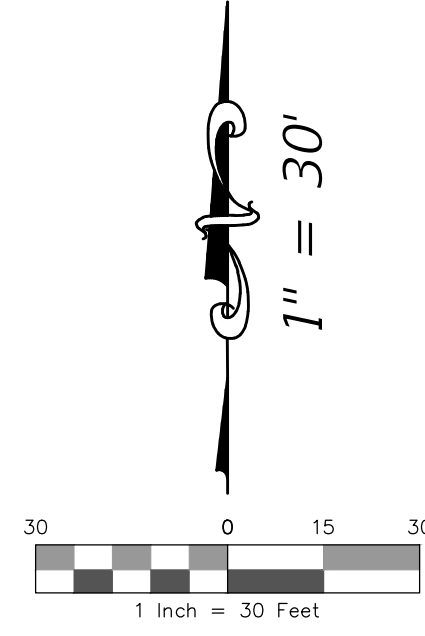
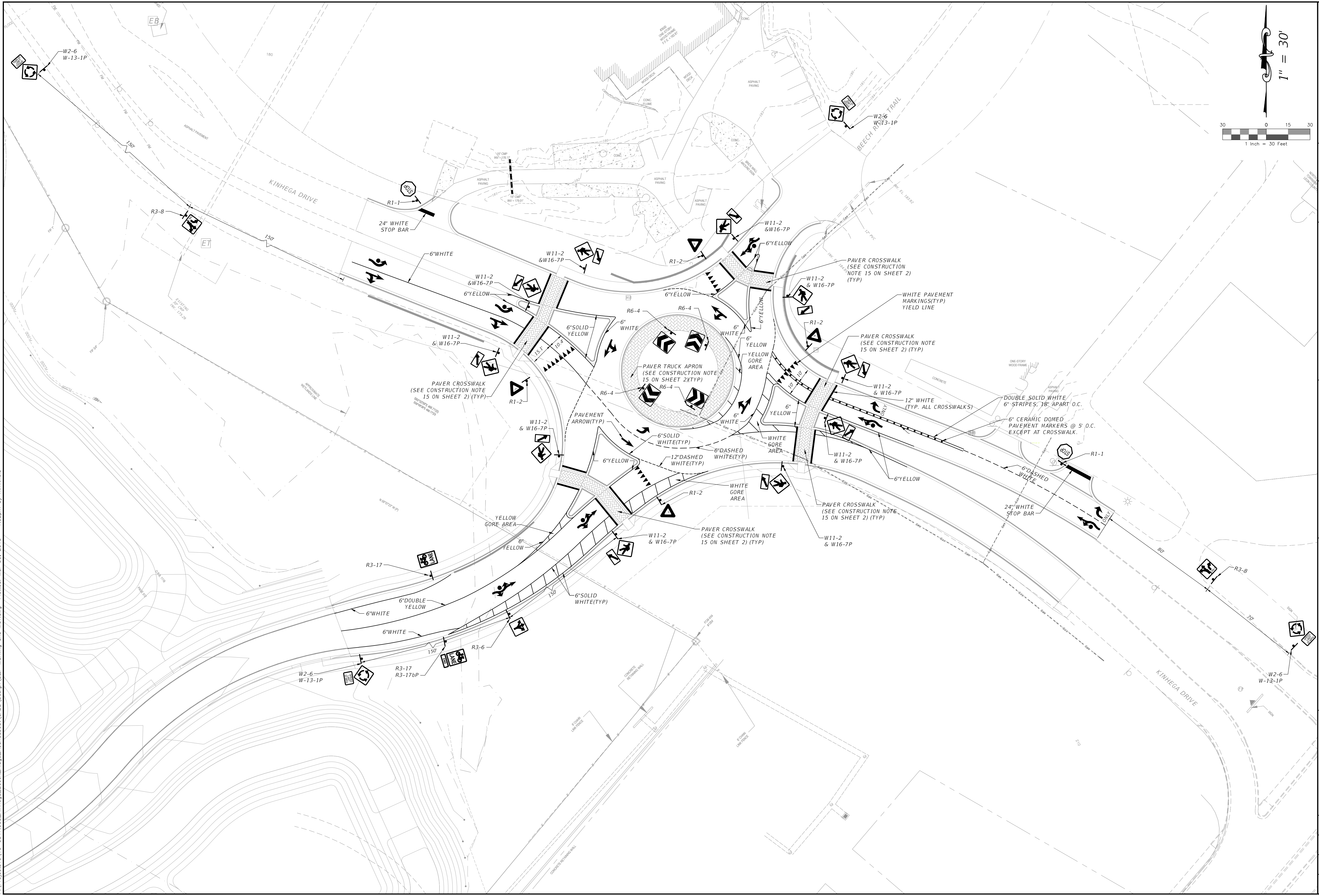
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Bryant King, P.E.
 Florida Engineer # 51994
 PROJECT NO.:
 10-0547.003

SCALE:	DATE:	DRAWING:
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NO.	DESCRIPTION

DESIGNED BY	BAK
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APPROVED BY	BAK

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SIGNING AND PAVEMENT MARKINGS
KINHEGA BEECH RIDGE ROUNDABOUT
FINAL PLANS
 LEON COUNTY, FLORIDA

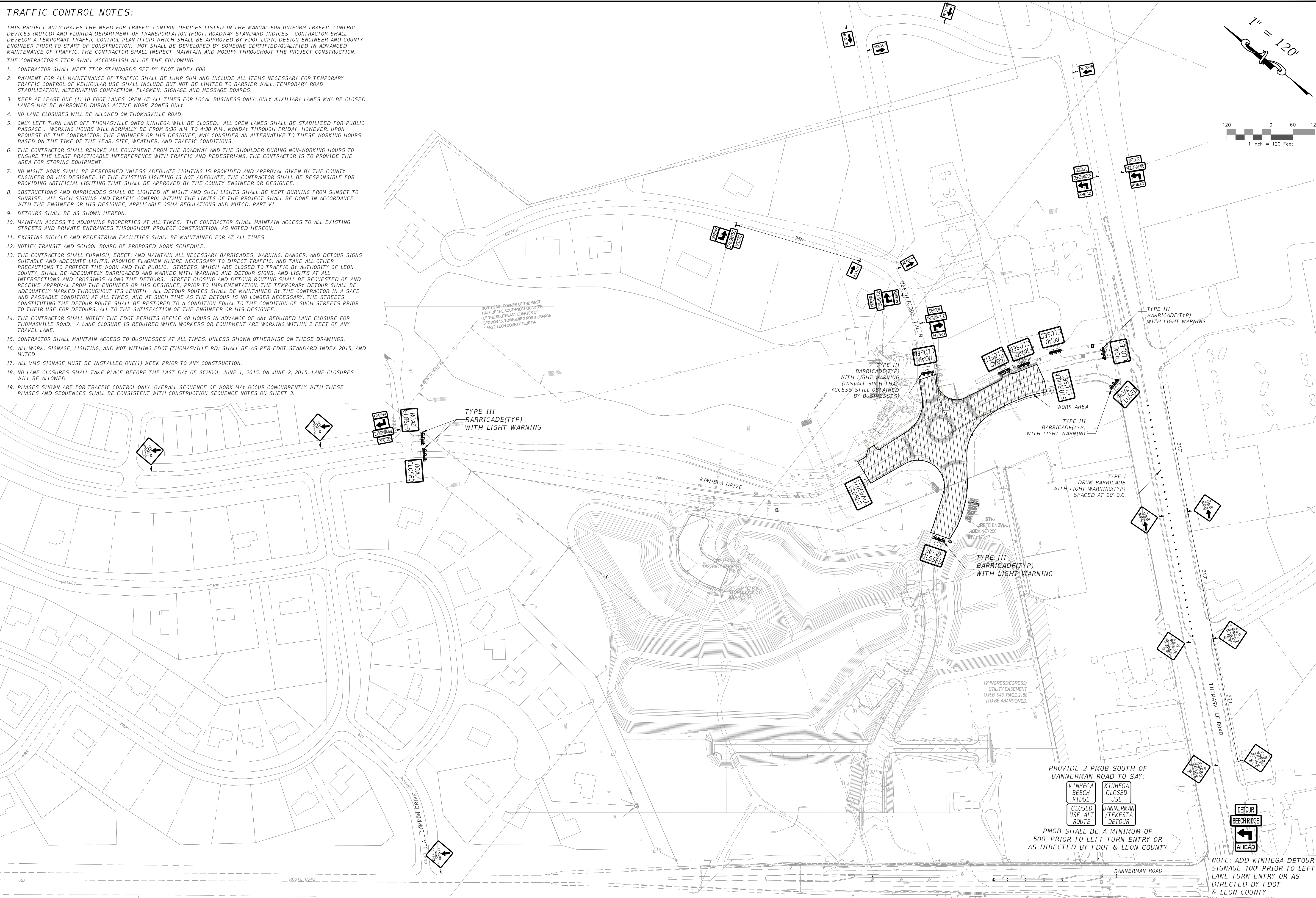
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PROJECT NO.: 10-0547.003
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DATE: 03/10/2015
DRAWING: 16

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TRAFFIC CONTROL NOTES:

- THIS PROJECT ANTICIPATES THE NEED FOR TRAFFIC CONTROL DEVICES LISTED IN THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY STANDARD INDICES. CONTRACTOR SHALL DEVELOP A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WHICH SHALL BE APPROVED BY FDOT LCPW, DESIGN ENGINEER AND COUNTY ENGINEER PRIOR TO START OF CONSTRUCTION. NOT SHALL BE DEVELOPED BY SOMEONE CERTIFIED/QUALIFIED IN ADVANCED MAINTENANCE OF TRAFFIC, THE CONTRACTOR SHALL INSPECT, MAINTAIN AND MODIFY THROUGHOUT THE PROJECT CONSTRUCTION. THE CONTRACTOR'S TTCP SHALL ACCOMPLISH ALL OF THE FOLLOWING:
- CONTRACTOR SHALL MEET TTCP STANDARDS SET BY FDOT INDEX 600
 - PAYMENT FOR ALL MAINTENANCE OF TRAFFIC SHALL BE LUMP SUM AND INCLUDE ALL ITEMS NECESSARY FOR TEMPORARY TRAFFIC CONTROL OF VEHICULAR USE SHALL INCLUDE BUT NOT BE LIMITED TO BARRIER WALL, TEMPORARY ROAD STABILIZATION, ALTERNATING COMPACTION, FLAGMEN, SIGNAGE AND MESSAGE BOARDS.
 - KEEP AT LEAST ONE (1) 10 FOOT LANES OPEN AT ALL TIMES FOR LOCAL BUSINESS ONLY. ONLY AUXILIARY LANES MAY BE CLOSED. LANES MAY BE NARROWED DURING ACTIVE WORK ZONES ONLY.
 - NO LANE CLOSURES WILL BE ALLOWED ON THOMASVILLE ROAD.
 - ONLY LEFT TURN LANE OFF THOMASVILLE ONTO KINHEGA WILL BE CLOSED. ALL OPEN LANES SHALL BE STABILIZED FOR PUBLIC PASSAGE. WORKING HOURS WILL NORMALLY BE FROM 8:30 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY, HOWEVER, UPON REQUEST OF THE CONTRACTOR, THE ENGINEER OR HIS DESIGNEE, MAY CONSIDER AN ALTERNATIVE TO THESE WORKING HOURS BASED ON THE TIME OF THE YEAR, SITE, WEATHER, AND TRAFFIC CONDITIONS.
 - THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM THE ROADWAY AND THE SHOULDER DURING NON-WORKING HOURS TO ENSURE THE LEAST PRACTICABLE INTERFERENCE WITH TRAFFIC AND PEDESTRIANS. THE CONTRACTOR IS TO PROVIDE THE AREA FOR STORING EQUIPMENT.
 - NO NIGHT WORK SHALL BE PERFORMED UNLESS ADEQUATE LIGHTING IS PROVIDED AND APPROVAL GIVEN BY THE COUNTY ENGINEER OR HIS DESIGNEE. IF THE EXISTING LIGHTING IS NOT ADEQUATE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ARTIFICIAL LIGHTING THAT SHALL BE APPROVED BY THE COUNTY ENGINEER OR DESIGNEE.
 - OBSTRUCTIONS AND BARRICADES SHALL BE LIGHTED AT NIGHT AND SUCH LIGHTS SHALL BE KEPT BURNING FROM SUNSET TO SUNRISE. ALL SUCH SIGNING AND TRAFFIC CONTROL WITHIN THE LIMITS OF THE PROJECT SHALL BE DONE IN ACCORDANCE WITH THE ENGINEER OR HIS DESIGNEE, APPLICABLE OSHA REGULATIONS AND MUTCD, PART VI.
 - DETOURS SHALL BE AS SHOWN HEREON.
 - MAINTAIN ACCESS TO ADJOINING PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING STREETS AND PRIVATE ENTRANCES THROUGHOUT PROJECT CONSTRUCTION, AS NOTED HEREON.
 - EXISTING BICYCLE AND PEDESTRIAN FACILITIES SHALL BE MAINTAINED FOR AT ALL TIMES.
 - NOTIFY TRANSIT AND SCHOOL BOARD OF PROPOSED WORK SCHEDULE.
 - THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING, DANGER, AND DETOUR SIGNS SUITABLE AND ADEQUATE LIGHTS, PROVIDE FLAGMEN WHERE NECESSARY TO DIRECT TRAFFIC, AND TAKE ALL OTHER PRECAUTIONS TO PROTECT THE WORK AND THE PUBLIC. STREETS, WHICH ARE CLOSED TO TRAFFIC BY AUTHORITY OF LEON COUNTY, SHALL BE ADEQUATELY BARRICADED AND MARKED WITH WARNING AND DETOUR SIGNS, AND LIGHTS AT ALL INTERSECTIONS AND CROSSINGS ALONG THE DETOURS. STREET CLOSING AND DETOUR ROUTING SHALL BE REQUESTED OF AND RECEIVE APPROVAL FROM THE ENGINEER OR HIS DESIGNEE, PRIOR TO IMPLEMENTATION. THE TEMPORARY DETOUR SHALL BE ADEQUATELY MARKED THROUGHOUT ITS LENGTH. ALL DETOUR ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR IN A SAFE AND PASSABLE CONDITION AT ALL TIMES, AND AT SUCH TIME AS THE DETOUR IS NO LONGER NECESSARY, THE STREETS CONSTITUTING THE DETOUR ROUTE SHALL BE RESTORED TO A CONDITION EQUAL TO THE CONDITION OF SUCH STREETS PRIOR TO THEIR USE FOR DETOURS, ALL TO THE SATISFACTION OF THE ENGINEER OR HIS DESIGNEE.
 - THE CONTRACTOR SHALL NOTIFY THE FDOT PERMITS OFFICE 48 HOURS IN ADVANCE OF ANY REQUIRED LANE CLOSURE FOR THOMASVILLE ROAD. A LANE CLOSURE IS REQUIRED WHEN WORKERS OR EQUIPMENT ARE WORKING WITHIN 2 FEET OF ANY TRAVEL LANE.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AT ALL TIMES. UNLESS SHOWN OTHERWISE ON THESE DRAWINGS.
 - ALL WORK, SIGNAGE, LIGHTING, AND MOT WITHING FDOT (THOMASVILLE RD) SHALL BE AS PER FDOT STANDARD INDEX 2015, AND MUTCD
 - ALL VMS SIGNAGE MUST BE INSTALLED ONE(1) WEEK PRIOR TO ANY CONSTRUCTION.
 - NO LANE CLOSURES SHALL TAKE PLACE BEFORE THE LAST DAY OF SCHOOL, JUNE 1, 2015. ON JUNE 2, 2015, LANE CLOSURES WILL BE ALLOWED.
 - PHASES SHOWN ARE FOR TRAFFIC CONTROL ONLY. OVERALL SEQUENCE OF WORK MAY OCCUR CONCURRENTLY WITH THESE PHASES AND SEQUENCES SHALL BE CONSISTENT WITH CONSTRUCTION SEQUENCE NOTES ON SHEET 3.

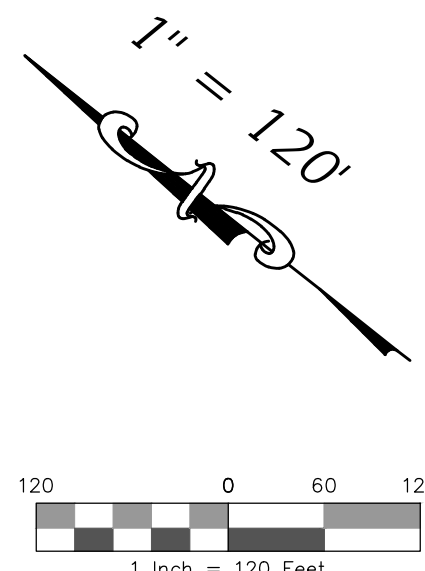


PROVIDE 2 PMOB SOUTH OF BANNERMAN ROAD TO SAY:

KINHEGA BEECH RIDGE	KINHEGA CLOSED USE
CLOSED USE ALT ROUTE	BANNERMAN/TEKESTA DETOUR

PMOB SHALL BE A MINIMUM OF 500' PRIOR TO LEFT TURN ENTRY OR AS DIRECTED BY FDOT & LEON COUNTY

NOTE: ADD KINHEGA DETOUR SIGNAGE 100' PRIOR TO LEFT LANE TURN ENTRY OR AS DIRECTED BY FDOT & LEON COUNTY



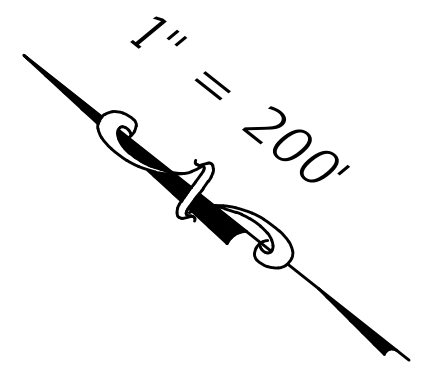
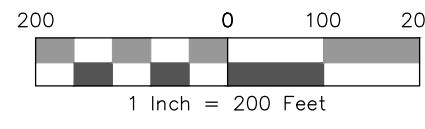
LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE: (850) 606-1500 FAX: (850) 606-1501	DESIGNED BY	BAK
	DRAWN BY	HWW
	CHECKED BY	BAK
	APPROVED BY	BAK
DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 0527074 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM	PROJECT NO.:	10-0547.003
	SCALE:	AS SHOWN
	DATE:	03/27/2015
	DRAWING:	17

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
 MAINTENANCE OF TRAFFIC
 KINHEGA BEECH RIDGE ROUNDABOUT
 FINAL PLANS
 LEON COUNTY, FLORIDA

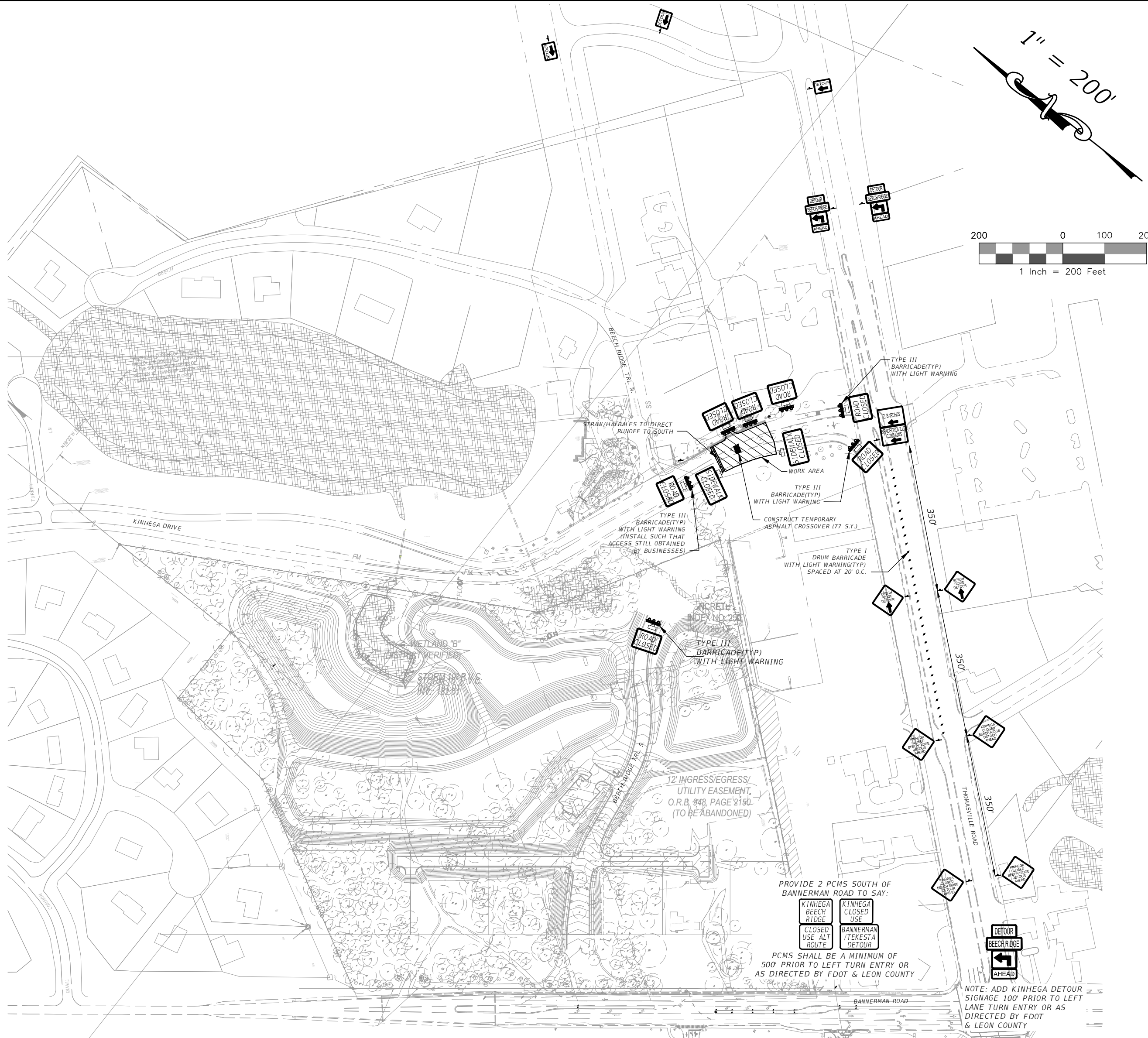
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Travis Shannon, P.E.
 Florida Engineer # 73883
 PROJECT NO.: 10-0547.003
 SCALE: AS SHOWN
 DATE: 03/27/2015
 DRAWING: 17

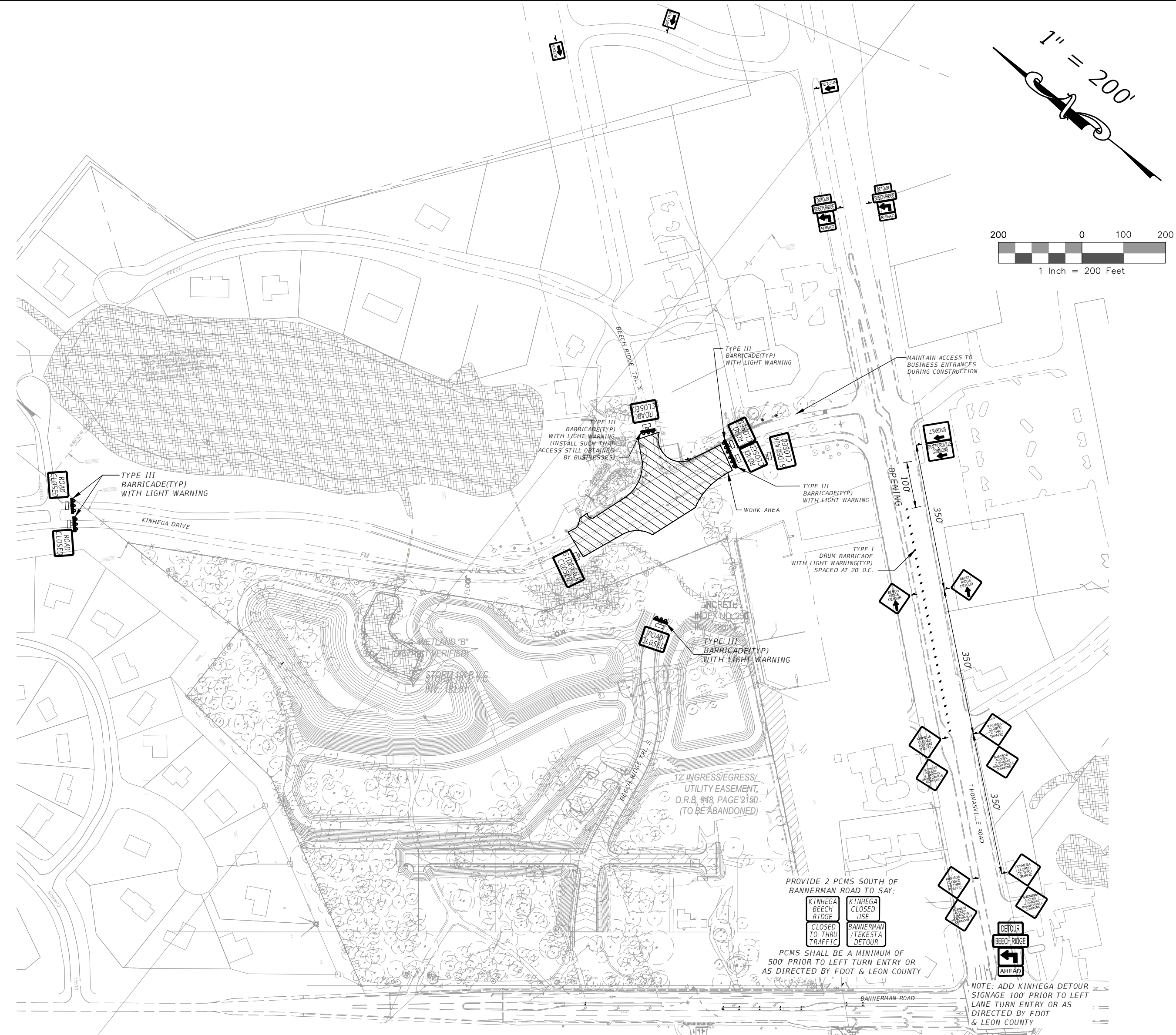
P:\Projects\10-0547-003_Kinhega_Roundabout\CADD\Design_S&P_Marking and MOT.dwg Plotted: Mar 30, 2015 1:03pm by twmifield



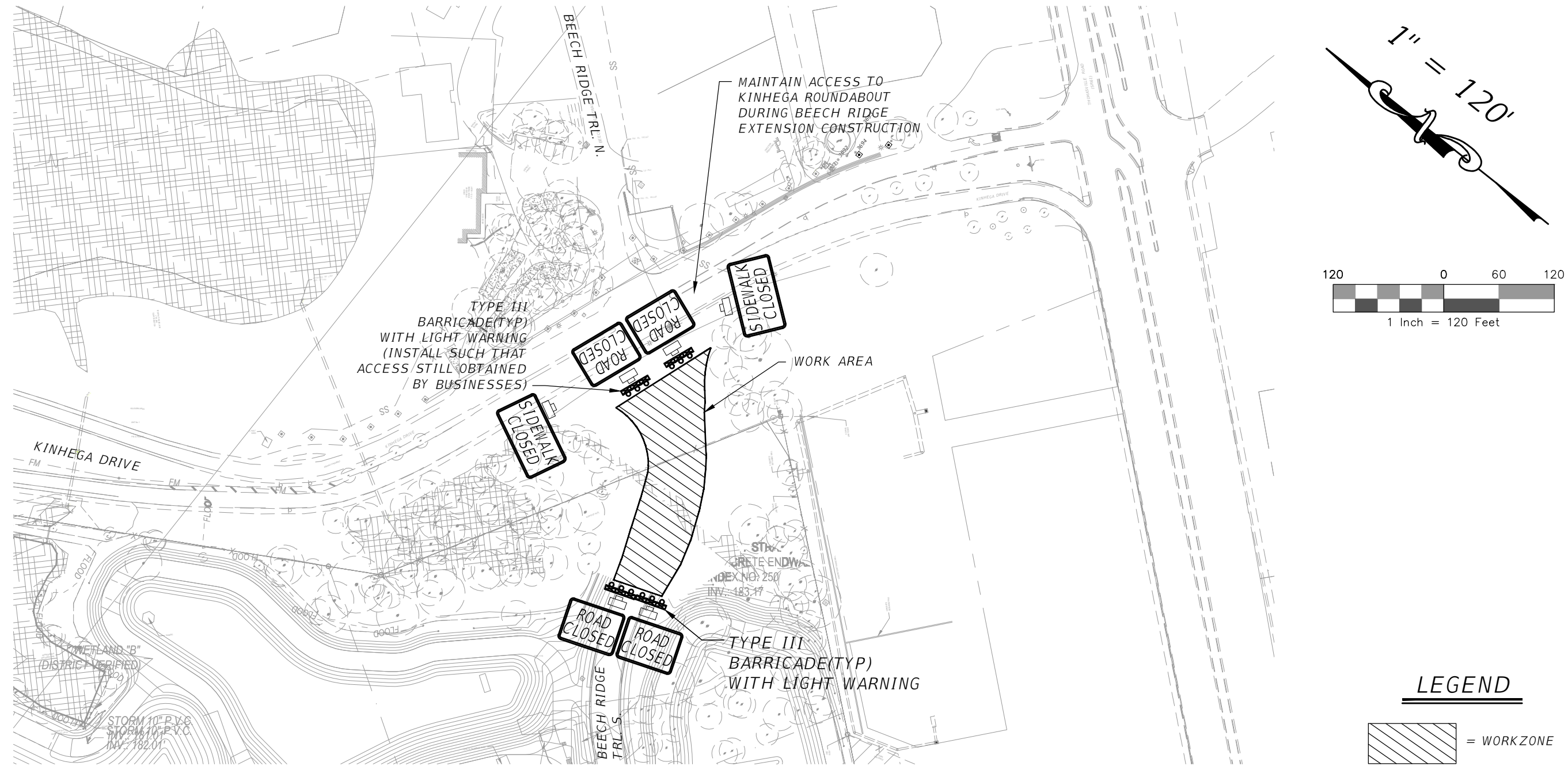
DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 0527074 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM		LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1300 FAX (850) 606-1501	
MAINTENANCE OF TRAFFIC KINHEGA BEECH RIDGE ROUNDABOUT FINAL PLANS LEON COUNTY, FLORIDA	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE		
Travis Shannon, P.E. Florida Engineer # 73883 PROJECT NO.: 10-0547.003	DESIGNED BY BAK	DRAWN BY HWM	CHECKED BY BAK
SCALE: AS SHOWN	DATE: 03/10/2015	APPROVED BY BAK	REVISIONS NO. DATE DESCRIPTION BY
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PHASE I MAINTENANCE OF TRAFFIC
1" = 200'



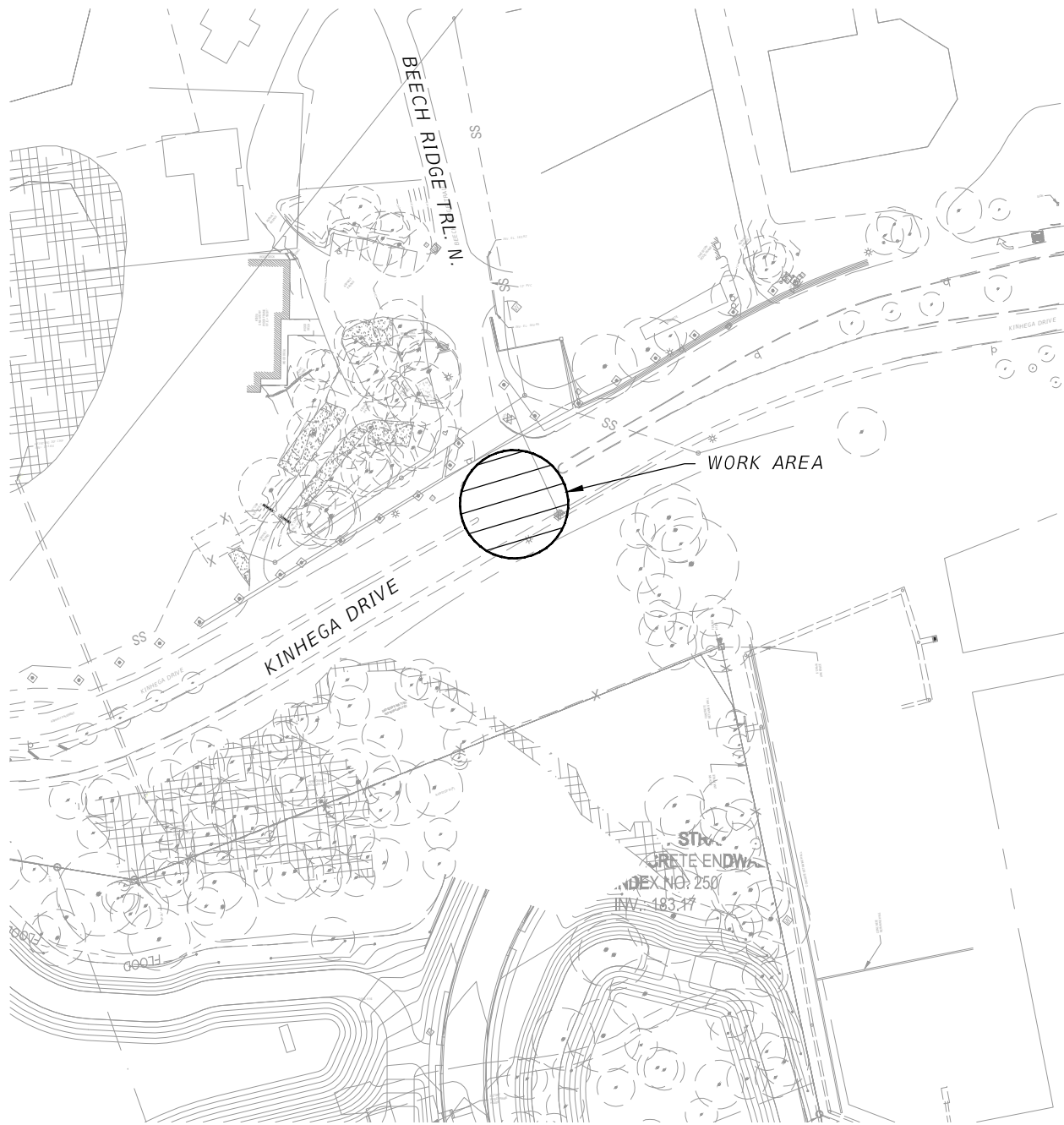
PHASE II MAINTENANCE OF TRAFFIC
1" = 200'



PHASE III MAINTENANCE OF TRAFFIC
1" = 120'

LEGEND

	= WORK ZONE
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PHASE IV MAINTENANCE OF TRAFFIC
1" = 120'

TRAFFIC CONTROL PHASING NOTES:

- PHASE I:**
- INSTALL ALL EROSION CONTROL MEASURES. PLACE ALL NECESSARY DETOUR, ROAD CLOSED, PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AND OTHER TEMPORARY TRAFFIC CONTROL PLAN (TTC) SIGNS TO CLOSE THE KINHEGA/BEECH RIDGE INTERSECTION AND LEFT TURN LANE FROM THOMASVILLE ROAD ONTO KINHEGA DRIVE.
 - CONSTRUCT ALL PROPOSED ROADWAY FEATURES, INCLUDING PAVEMENT AND CURB AND GUTTER ALONG KINHEGA DRIVE FROM STATION 35+90 TO STATION 37+26 (END PROJECT) EXCLUDING THE MEDIAN CURB NECESSARY FOR A TEMPORARY CROSSOVER. CONSTRUCT TEMPORARY ASPHALT CROSSOVER TO PROVIDE A TURNING MOVEMENT FROM KINHEGA DRIVE WESTBOUND TO KINHEGA DRIVE EASTBOUND (U-TURN).
 - PHASE I SHALL NOT EXCEED A CONSTRUCTION TIME OF TWO WEEKS FROM START DATE.
 - PHASE I SHALL BE STABILIZED TO ALLOW TRAFFIC FLOW AND PREVENT EROSION.
- PHASE II:**
- REMOVE NECESSARY TTC SIGNS AND OPEN KINHEGA DRIVE TO BUSINESS ACCESS ONLY FROM THOMASVILLE ROAD. REVISE PCMS DISPLAYS AND OPEN APPROXIMATELY 50 FEET OF THE LEFT TURN LANE ON THOMASVILLE ROAD AND LEAVE REMAINDER BARRICADED OFF. CONSTRUCT PROPOSED ROADWAY AND ROUNDABOUT, INCLUDING PAVEMENT, CURB AND GUTTER AS SHOWN IN THE CONSTRUCTION PLANS ALONG KINHEGA DRIVE FROM STATION 30+66 TO STATION 35+90 AND BEECH RIDGE DRIVE NORTH.
 - CONSTRUCT ALL DRAINAGE STRUCTURES AND PIPES INCLUDING BEECH RIDGE TRAIL SOUTH CROSSDRAIN.
 - REMOVE TEMPORARY ASPHALT CROSSOVER AND CONSTRUCT MEDIAN CURB AND GUTTER.
 - PLACE FINAL ASPHALT COURSE AND PAVEMENT STRIPING ALONG KINHEGA DRIVE AND BEECH RIDGE DRIVE FOR PHASE I AND II WORK ZONES.
 - ALL UTILITY, DRAINAGE CONVEYANCE, AND CROSSDRAINS SHALL BE COMPLETED DURING THIS PHASE.
- PHASE III:**
- REMOVE DETOUR, ROAD CLOSED AND TEMPORARY TRAFFIC CONTROL PLANS SIGNS AND REOPEN KINHEGA DRIVE AND BEECH RIDGE DRIVE NORTH. CONSTRUCT PROPOSED ROADWAY ON BEECH RIDGE DRIVE SOUTH.
 - PLACE FINAL ASPHALT COURSE AND PAVEMENT STRIPING FOR THE PHASE III WORK ZONE.
 - REMOVE ALL TEMPORARY TRAFFIC CONTROL PLANS SIGNS ONCE CONSTRUCTION IS COMPLETE.
- PHASE IV:**
- CONTRACTOR TO COORDINATE WITH INSTALLER OF LARGE DIAMETER TREE FOR INSTALLATION.
 - ANY TEMPORARY ROADWAY CLOSURE SHALL ONLY BE LIMITED TO TREE INSTALLATION ACTIVITIES.
 - CONTRACTOR TO FINALIZE IRRIGATION, DRAINAGE, FINAL GRADING AND RESTORATION WITHIN ROUNDABOUT CENTER.
 - FULL OR PARTIAL LANE CLOSURE ACTIVITIES ARE ALLOWED DURING OFF PEAK TRAFFIC HOURS.
- SCHEDULING/SEQUENCING NOTES:**
- KINHEGA DRIVE SHALL BE OPEN TO TRAFFIC PRIOR TO THE FIRST DAY OF SCHOOL FOR THE FALL 2015 SEMESTER. PHASE II AND III MAY BE COMBINED PROVIDED THIS TIMELINE IS MET. ANY WORK WITHIN THE ROUNDABOUT (I.E. FINAL ASPHALT COURSE, STRIPING, ETC.) AFTER THE START OF SCHOOL SHALL BE DONE AT NIGHT OR WEEKENDS. SEE OVERALL CONSTRUCTION SEQUENCING NOTES ON SHEET 3.

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NO.	DATE	DESCRIPTION	BY

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BAK	HWW	BAK	BAK

LEON COUNTY DEPARTMENT OF PUBLIC WORKS

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TALLAHASSEE, FL 32308
PHONE: (850) 606-1500
FAX: (850) 606-1501

**MAINTENANCE OF TRAFFIC
KINHEGA/BEECH RIDGE
ROUNDABOUT
FINAL PLANS**

LEON COUNTY, FLORIDA

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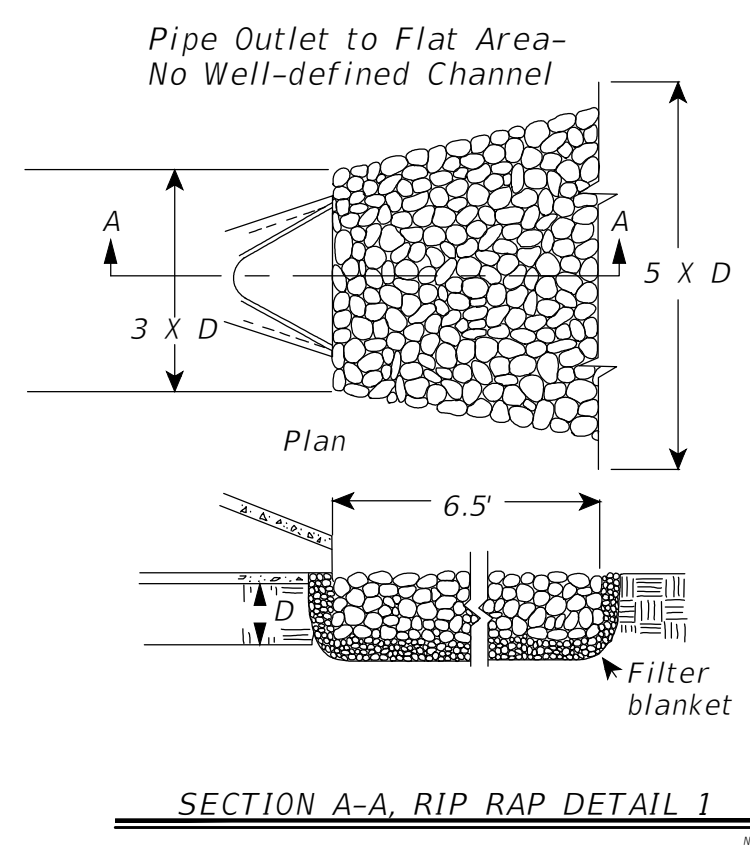
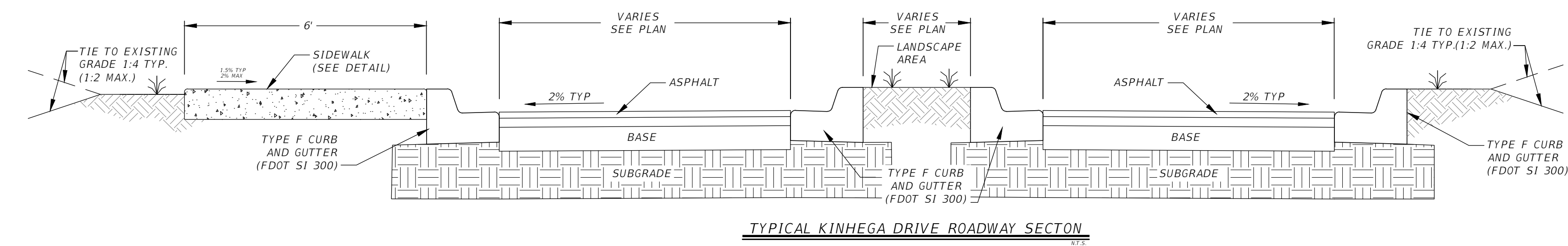
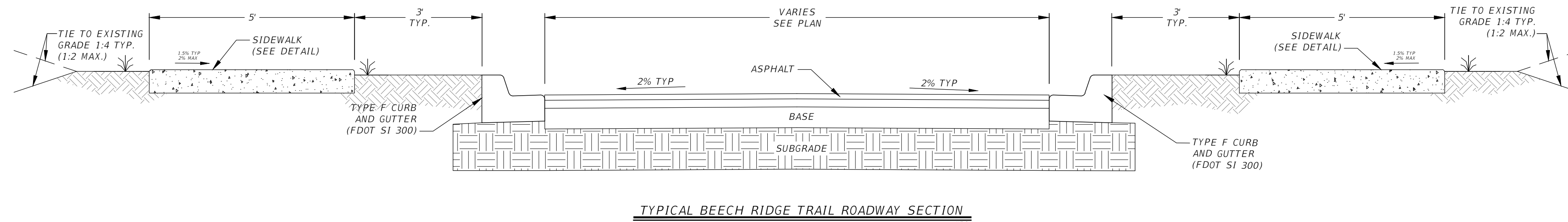
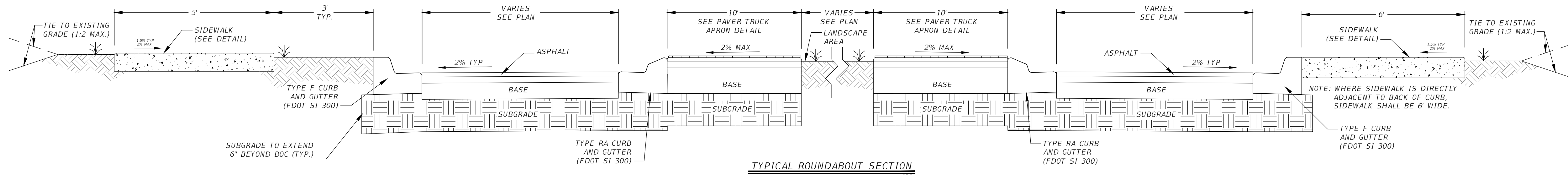
Travis Shannon, P.E.
Florida Engineer # 73883

PROJECT NO.: **10-0547.003**

SCALE: **AS SHOWN**

DATE: **03/27/2015**

DRAWING: **19**

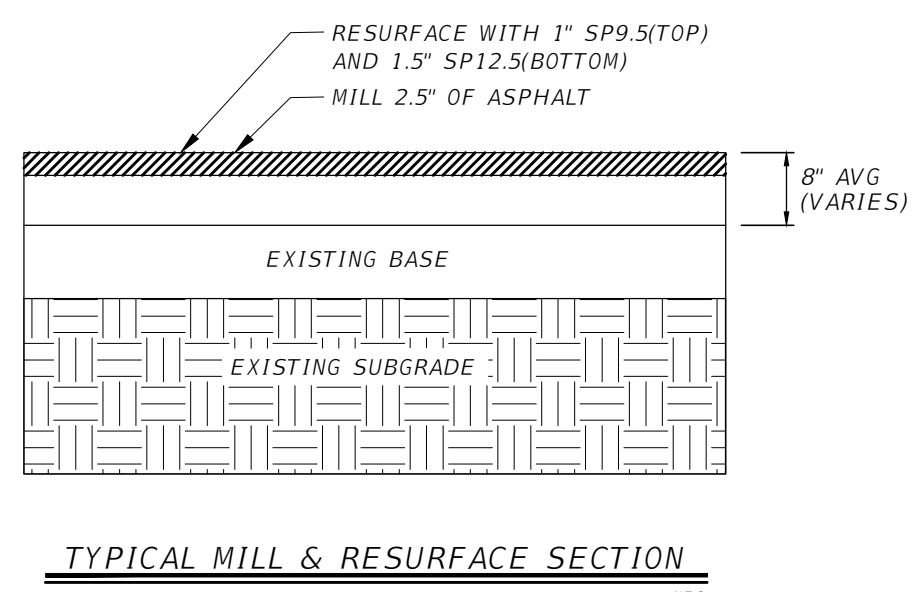
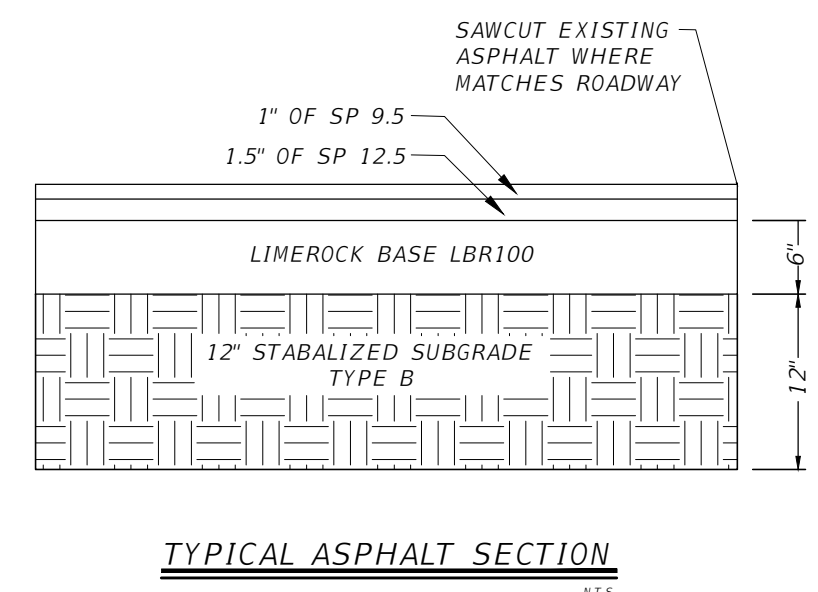
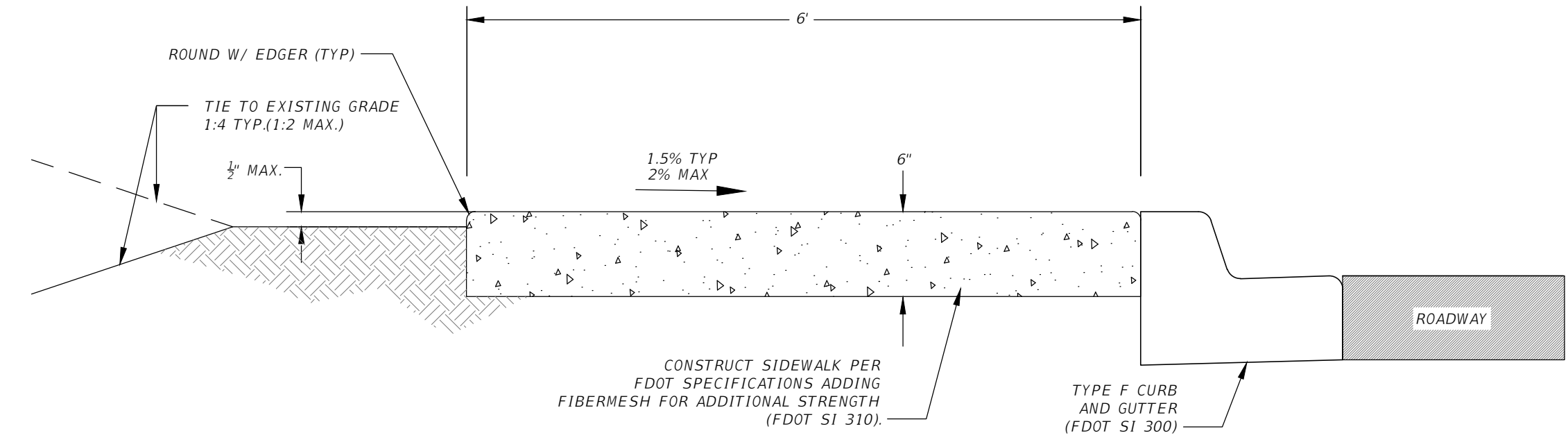


NOTES:
THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS.

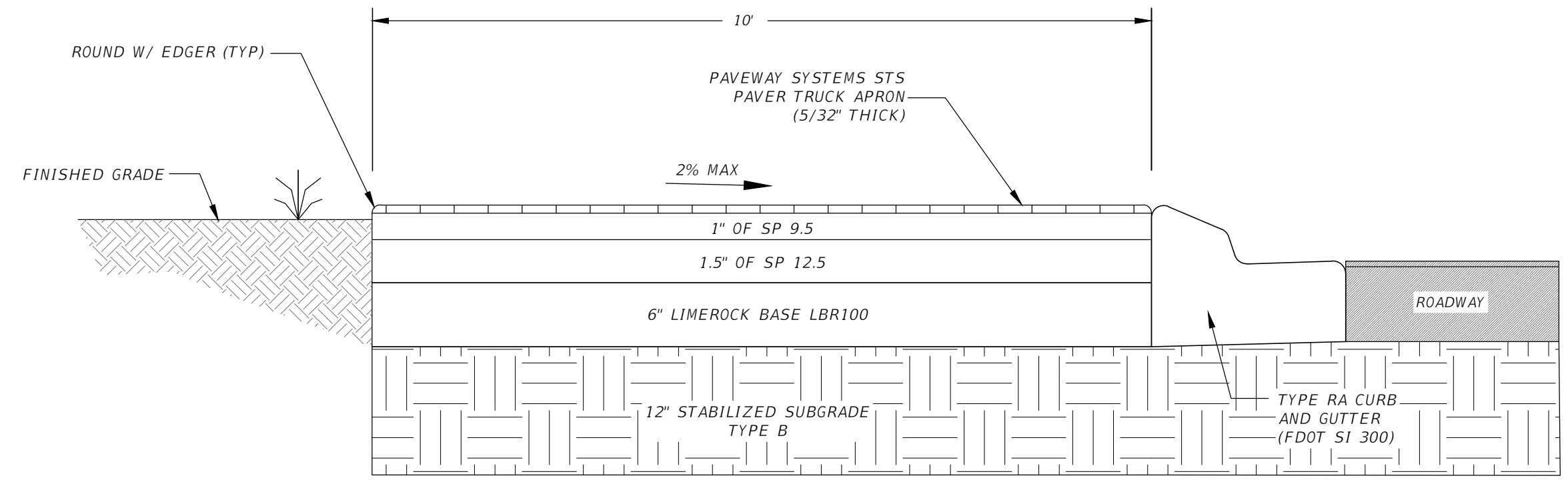
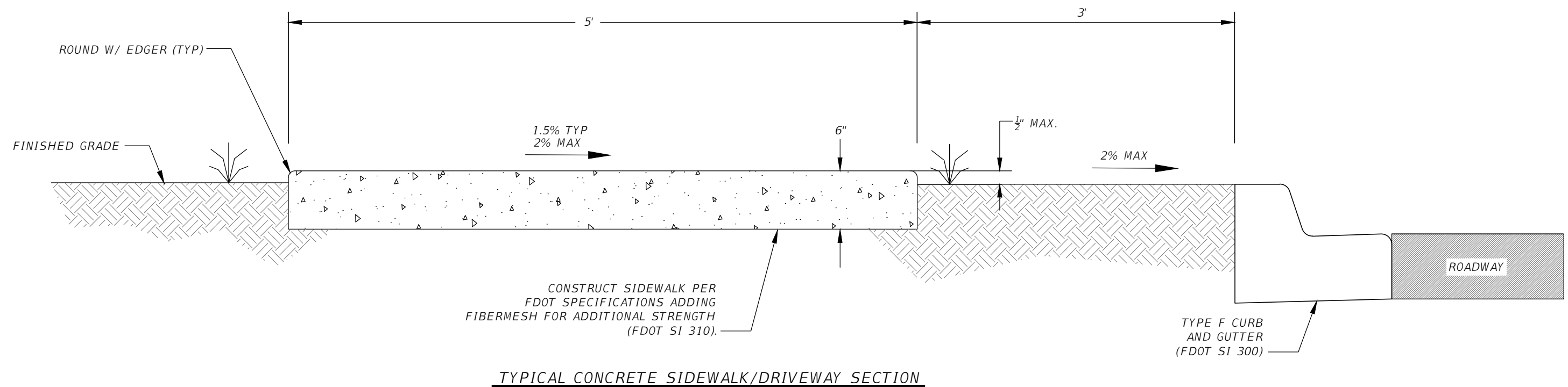
1. E05 IS NOT LARGER THAN U.S. 40 (MAX)
2. TENSILE STRENGTH = 200LB
3. BURSTING STRENGTH = 500LB
4. PUNCTURE RESISTANCE = 100LB
5. GRAB ELONGATION = 65LB

CONFORM TO ASTM D-1682 OR ASTM D-177

SEE PLAN SHEETS FOR ACTUAL DIMENSIONS FOR RIP RAP APRONS



NOTE: ALL SPLITTER ISLANDS SHALL HAVE TYPE RA CURBING INSTALLED (FDOT SI 300)



NO.	DATE	DESCRIPTION	BY

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LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD
TALLAHASSEE, FL 32308
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FAX (850) 606-1501

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Tallahassee, Florida 32308
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DRAWING:	20

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SEEDING

CONSTRUCTION SPECIFICATIONS:

TIMING:
 APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT FOR 1 YEAR OR MORE. APPLY PERMANENT SEEDING WHEN NO FURTHER DISTURBANCES ARE PLANNED. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST. APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED. USE DORMANT SEEDING FOR LATE FALL OR WINTER SEEDING SCHEDULES. DISTURBED AREAS NOT APART OF ACTIVE CONSTRUCTION SHALL BE IMMEDIATELY STABILIZED.

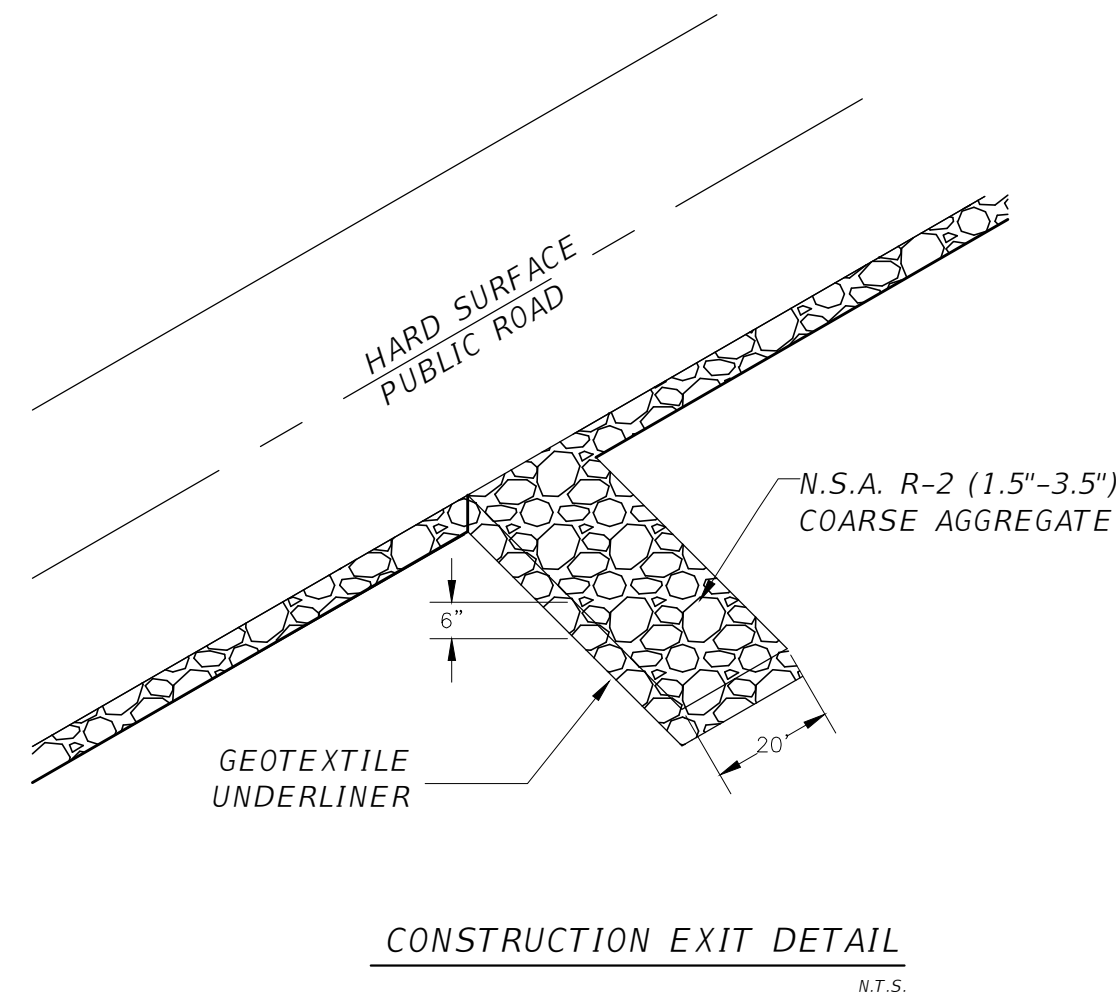
SEED MIXES:
 USE SEEDS APPROPRIATE TO THE SEASON AND SITE CONDITIONS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALISTS FOR SEED MIX. USE A SEED BLEND TO INCLUDE ANNUALS, PERENNIALS AND LEGUMES. USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 80%. WHEN PLS IS BELOW 80% ADJUST RATES ACCORDINGLY.

SITE PREPARATION:
 BRING THE PLANTING AREA TO FINAL GRADE AND INSTALL THE NECESSARY EROSION CONTROL PRACTICES. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDING AREA. CONDUCT SOIL TEST TO DETERMINE PH AND NUTRIENT CONTENT. ROUGHEN THE SOIL BY HARROWING, TRACKING, GROOVING OR FURROWING. APPLY AMENDMENTS AS NEEDED TO ADJUST PH TO 6.0-7.5. INCORPORATE THESE AMENDMENTS INTO THE SOIL. PREPARE A 3-5 INCH DEEP SEEDBED, WITH THE TOP 3-4 INCHES (76-102 MM) CONSISTING OF TOPSOIL. THE SEEDBED SHOULD BE FIRM BUT NOT COMPACT. THE TOP THREE INCHES OF SOIL SHOULD BE LOOSE, MOIST AND FREE OF LARGE CLUMPS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN SEASONABLY CLOSE CONFORMITY TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

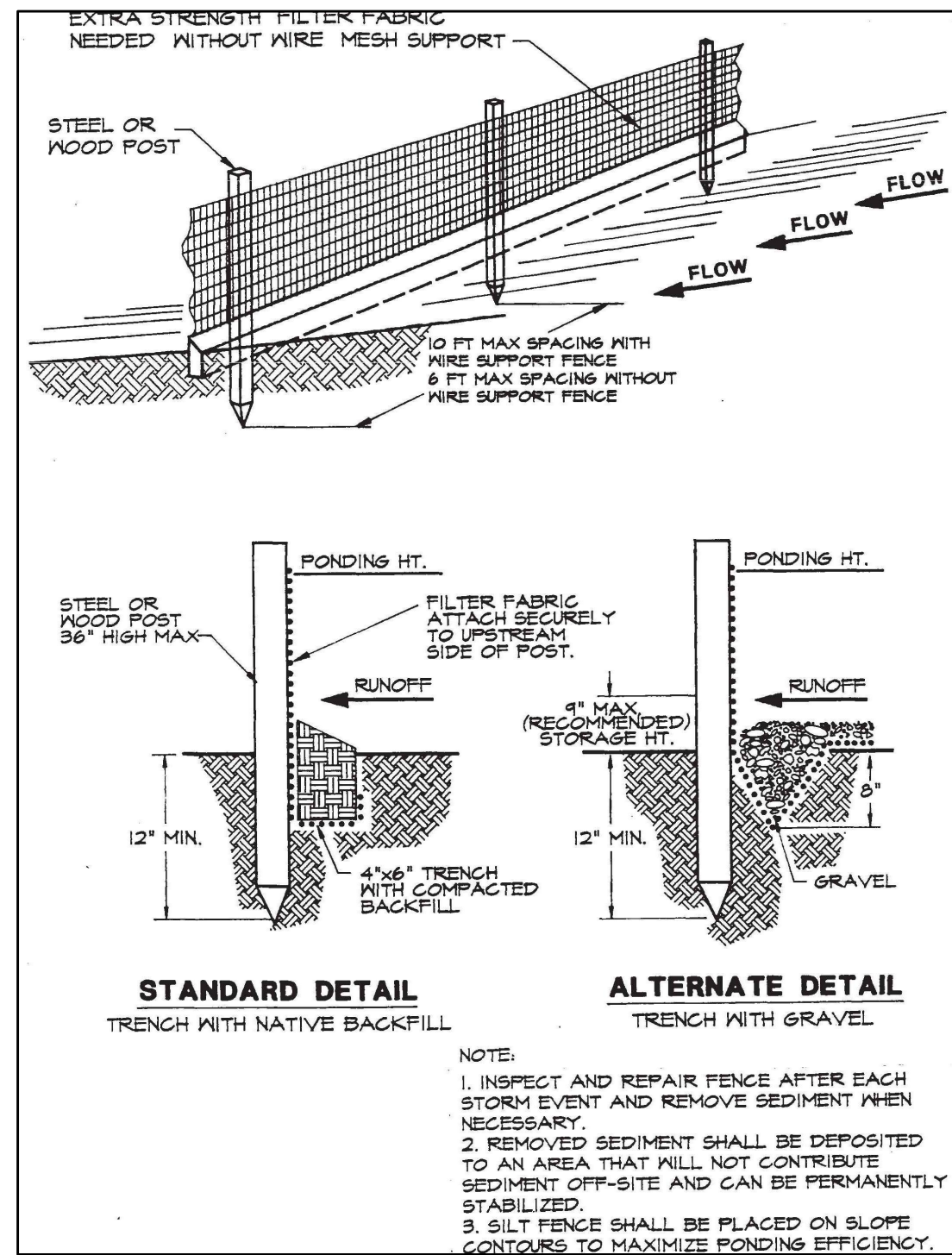
PLANTING:
 SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN IDLE LONG ENOUGH FOR THE SOIL TO BECOME COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITIONS THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE FACE OF THE SLOPE. SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. ALWAYS APPLY SEED BEFORE APPLYING MULCH. APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLOE SEEDERS, MECHANICAL DRILLS, OR HYDROSEEDER SO THE SEED IS APPLIED UNIFORMLY ON THE SITE. BROADCAST SEED SHOULD BE INCORPORATED INTO THE SOIL BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY COMPACTED TO PROVIDE GOOD SEED-SOIL CONTACT. APPLY FERTILIZER AS SPECIFIED. APPLY MULCH OR EROSION CONTROL BLANKET, AS SPECIFIED, OVER THE SEEDING AREAS.

INSPECTION AND MAINTENANCE:
 NEWLY SEEDED AREAS NEED TO BE INSPECTED FREQUENTLY TO ENSURE THE GRASS IS GROWING. IF THE SEEDED AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORMWATER MEASURES MAY BE NEEDED. SPOT SEEDING CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DID NOT GROW PROPERLY.

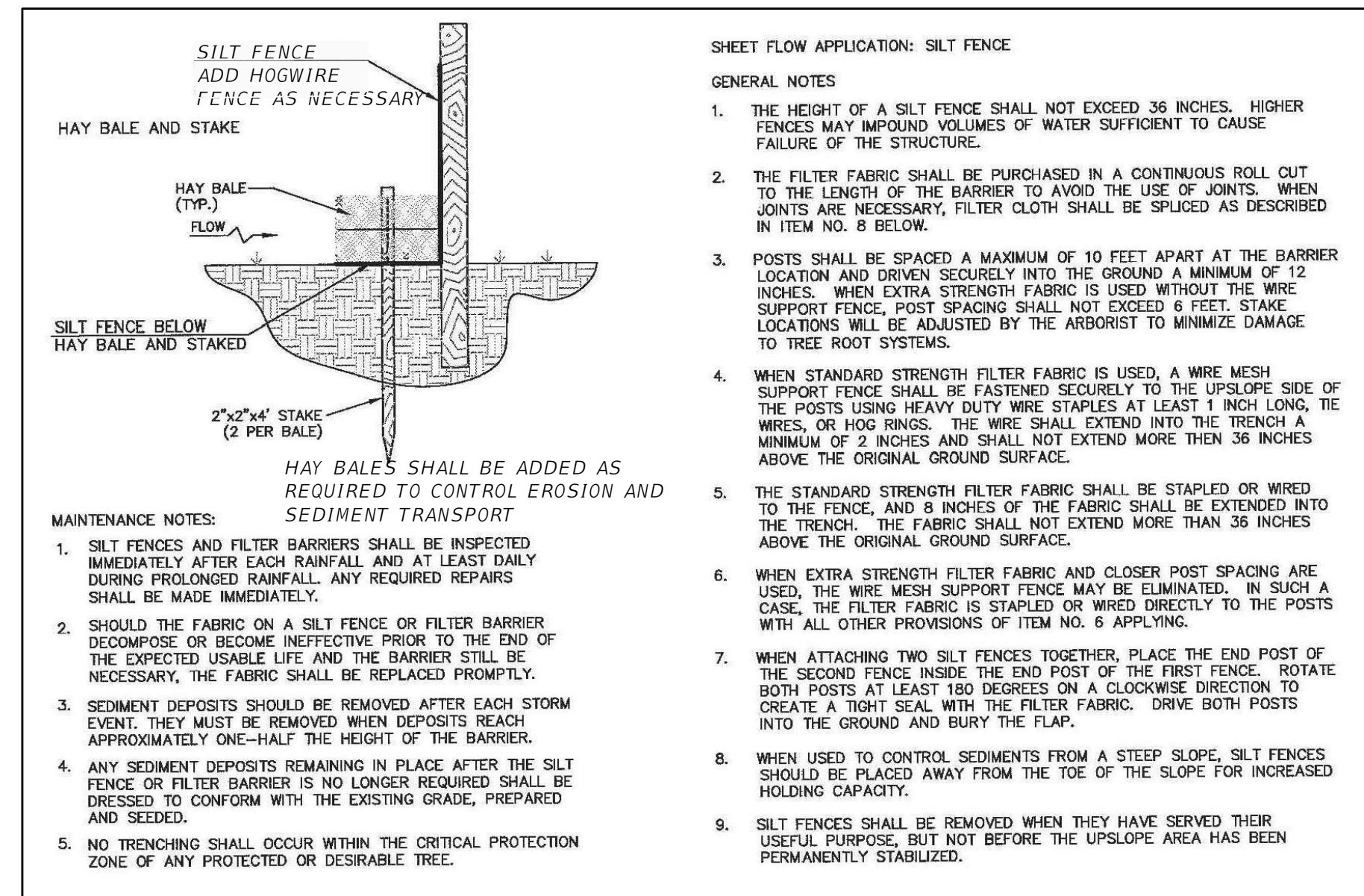
FERTILIZER FOR TEMPORARY SEEDING SHALL ADHERE TO CHAPTER 10-17 OF THE LEON COUNTY LAND DEVELOPMENT CODE.



TEMPORARY SEEDING (TO BE USED DURING CONSTRUCTION TO STABILIZE SOIL AND REDUCE EROSION)				
PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS				
SPECIES	BROADCAST Rates per Acres per 1000 SF	RESOURCE	REMARKS	
MILLET, BROWNTOP (Panicum fasciculatum)	ALONE 40 lbs. IN MIXTURES 10 lbs.	0.9 lb. 0.2 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEED AT HIGH RATES
RYE (Secale cereale)	ALONE 3 bu. (168 lbs.) IN MIXTURES 1 1/2 bu. (72 lbs.)	3.9 lb. 0.6 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER-HARDY
RYEGRASS, ANNUAL (Lolium temulentum)	ALONE 40 lbs.	0.9 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS 75%NOD%N% TO BE USED IN MIXTURES



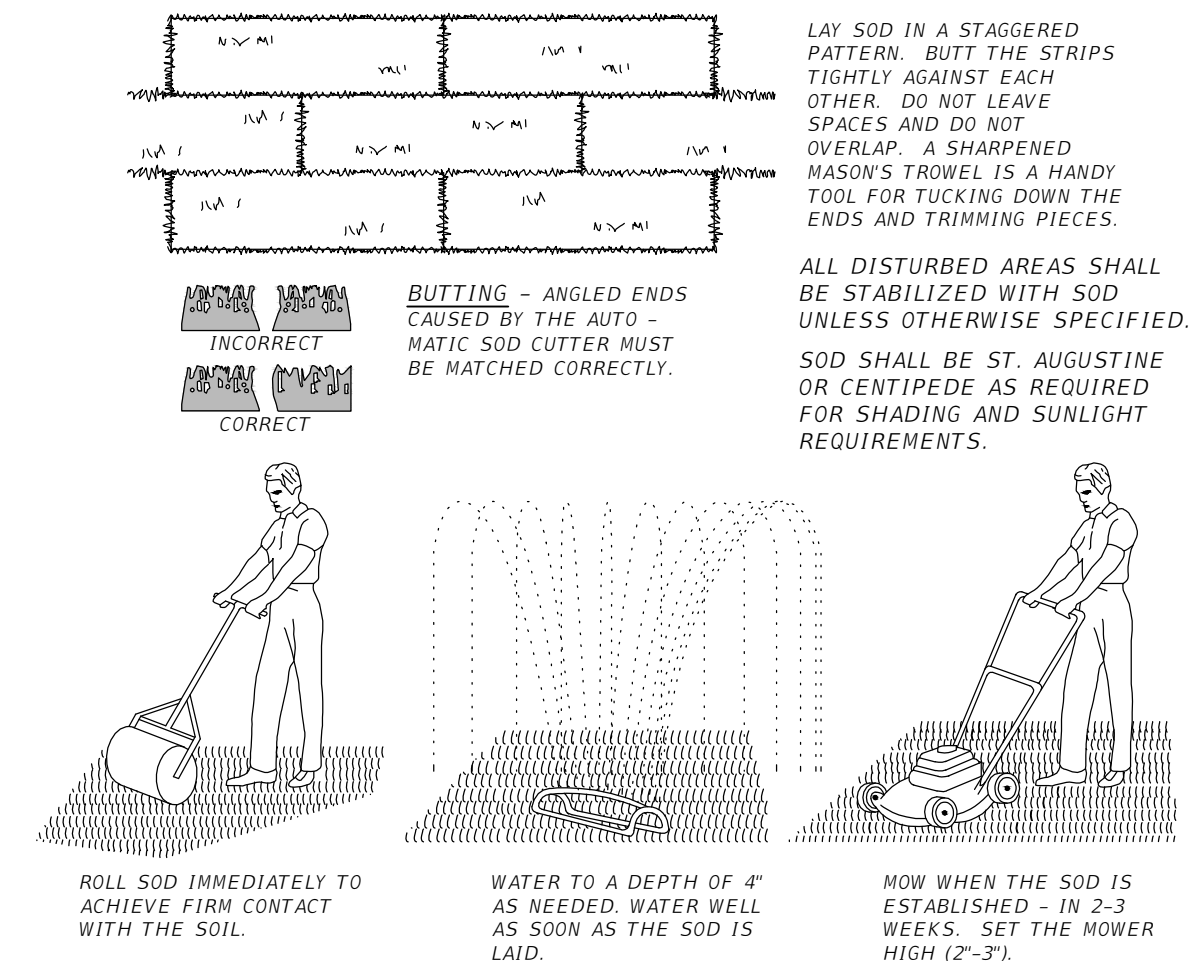
DETAILS FROM FLORIDA EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, FDEP, JULY 2008. SEE THIS MANUAL FOR ADDITIONAL INFORMATION ON SILT FENCE TYPE, INSTALLATION, MAINTENANCE, FABRIC, ETC.



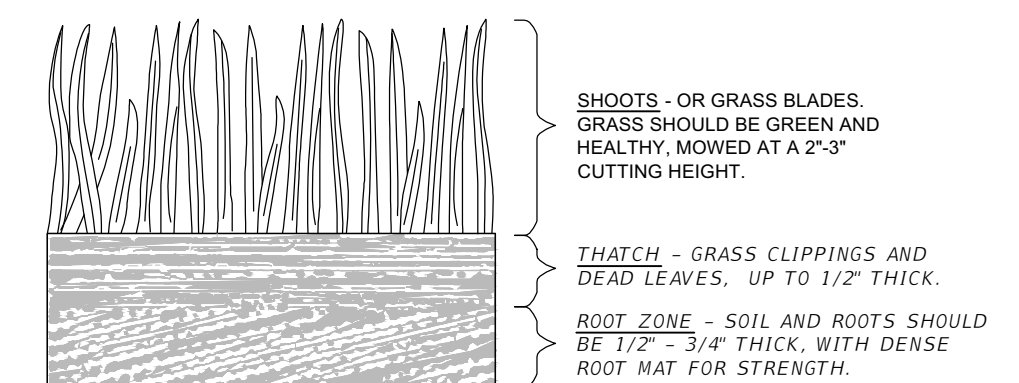
EROSION CONTROL GENERAL NOTES

- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
- EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
- TEMPORARY GRASSING IS TO BE NOT LESS THAN TWO (2) DAYS AFTER COMPLETION OF ANY GRADING ACTIVITIES.
- ALL DRAINAGE STRUCTURES TO BE EROSION PROOFED (WITH RIPRAP AS PER DETAIL ON THIS SHEET) ALL RIPRAP SHALL BE TYPE 1 STONE PLAIN IN ACCORDANCE WITH THE LATEST EDITION OF FDOT STANDARD SPECIFICATIONS.
- ALL HEAD WALLS ARE TO HAVE STORM DRAIN OUTLET PROTECTION AND SILT TRAP DITCHES.
- SILT FENCE MUST MEET THE REQUIREMENTS OF LEON COUNTY STANDARDS SPECIFICATIONS.
- PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL FOLLOWING FINAL GRADING.
- NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
- EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
- CONTRACTOR TO COMPLETELY SECURE FROM EROSION ANY STOCK PILE OF EARTHEN MATERIALS. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY MATERIAL STOCKPILE LOCATIONS PRIOR COMMENCING WORK. THE LOCATIONS WILL BE CONFIRMED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE ESPC PLANS WILL BE "REDLINED" WITH APPROPRIATE BMP'S TO REFLECT THE LOCATIONS.
- EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FDOT.
- ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, CITY REPRESENTATIVE OR, AS CONDITIONS MAY DICTATE.
- MAXIMUM CUT OR FILL SLOPES IS 3H:1V UNLESS STABILIZED OR DESIGNED.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
- DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES AND ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
- ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
- THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
- NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.
- IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ADEQUATE ROOM HAS BEEN PROVIDED WITHIN THE PROJECT LIMITS FOR REMOVAL OF BMP'S. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE/BEYOND THE LIMITS OF CONSTRUCTION/DISTURBANCE TO REMOVE BMP'S.
- CONTRACTOR IS REQUIRED TO OBTAIN NPDES PERMIT OR EXEMPTION CERTIFICATION FOR THE CONSTRUCTION.

SODDING



APPEARANCE OF GOOD SOD



NO.	DATE	DESCRIPTION	BY

LEON COUNTY DEPARTMENT OF PUBLIC WORKS

2280 MICCOSUKEE ROAD
 TALLAHASSEE, FL 32308
 PHONE (850) 606-1500
 FAX (850) 606-1501

EROSION CONTROL DETAILS

KINHEGA BEECH RIDGE ROUNDABOUT

FINAL PLANS

LEON COUNTY, FLORIDA

DRMP

ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

Certificate of Authorization No. 0527074
 1435 East Piedmont Drive, Suite 210
 Tallahassee, Florida 32308
 Phone: 850-562-9600 WWW.DRMP.COM

Bryant King, P.E.
 Florida Engineer # 51994

PROJECT NO.:
10-0547.003

SCALE:
AS SHOWN

DATE:
03/10/2015

DRAWING:
21

1. THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED.
2. USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF, BUT NOT BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING (FROM NATIVE SPECIES ONLY), SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECK BERMS, STRAW BALES, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE.
3. EROSION CONTROL PLAN
 - a) A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR. CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE STRAW BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
 - b) THE CONTRACTOR SHALL PREPARE A SWPPP DOCUMENT IN ACCORDANCE WITH THE NPDES REQUIREMENTS OUTLINED BY THE US ENVIRONMENTAL PROTECTION AGENCY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - c) THE CONTRACTOR SHALL PROVIDE CONTINUOUS MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES TAKEN.
 - d) THE APPROVED SWPPP SHALL BE EXECUTED BY THE CONTRACTOR AND THE DOCUMENT SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE OWNER'S REPRESENTATIVE AND BY NPDES INSPECTORS.
4. STOCKPILING MATERIAL

NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
5. EXPOSED AREA LIMITATION

THE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING SHALL NOT EXCEED 6 ACRES SO LONG AS THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
6. INLET PROTECTION

INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
7. TEMPORARY SEEDING

AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 LBS. PER ACRE.
8. TEMPORARY SEEDING AND MULCHING.

SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN 4 ABOVE, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATE 2 INCHES LOOSE MEASURE OF MULCH MATERIAL OUT INTO THE SOIL OF SEEDDED AREA TO A DEPTH OF FOUR INCHES. SEE NOTE 2.
9. TEMPORARY GRASSING

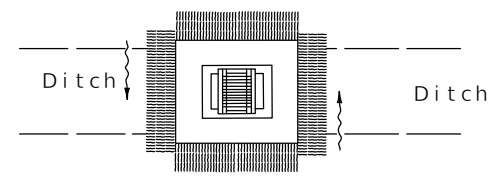
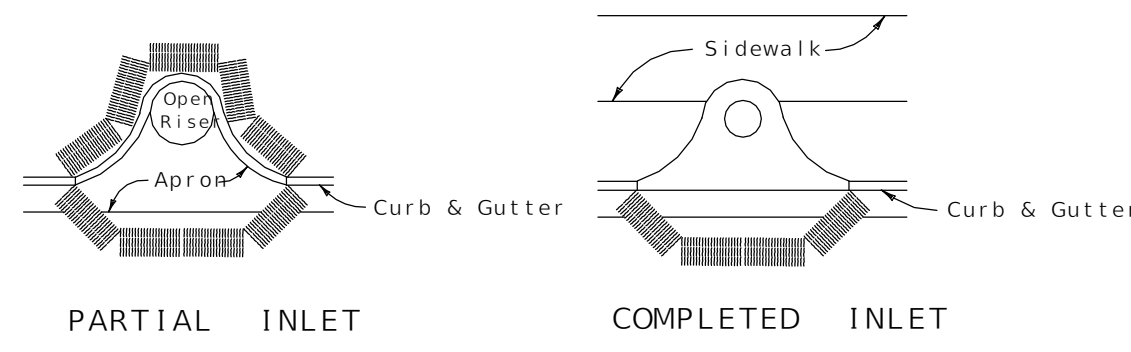
THE SEEDDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. SEE NOTE 2.
10. TEMPORARY REGRASSING

IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER. SEE NOTE 2.
11. MAINTENANCE

ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
12. DUST ABATEMENT

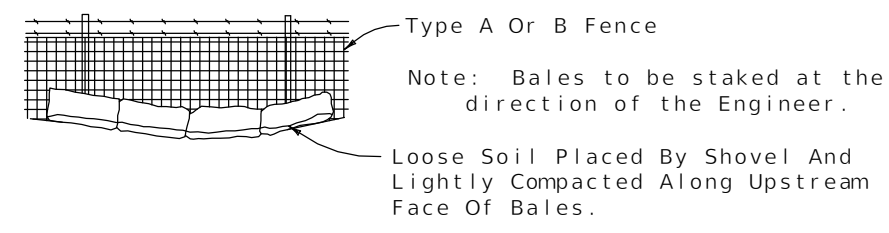
DUST SHALL BE CONTROLLED WITH THE USE OF WATER AND CALCIUM CHLORIDE.
13. TEMPORARY ROCK CHECK DAM

TEMPORARY ROCK CHECK DAM SHALL BE INSTALLED PRIOR TO ANY WORK IN DITCH, AND SHALL BE REMOVED UPON CLEAN-UP.

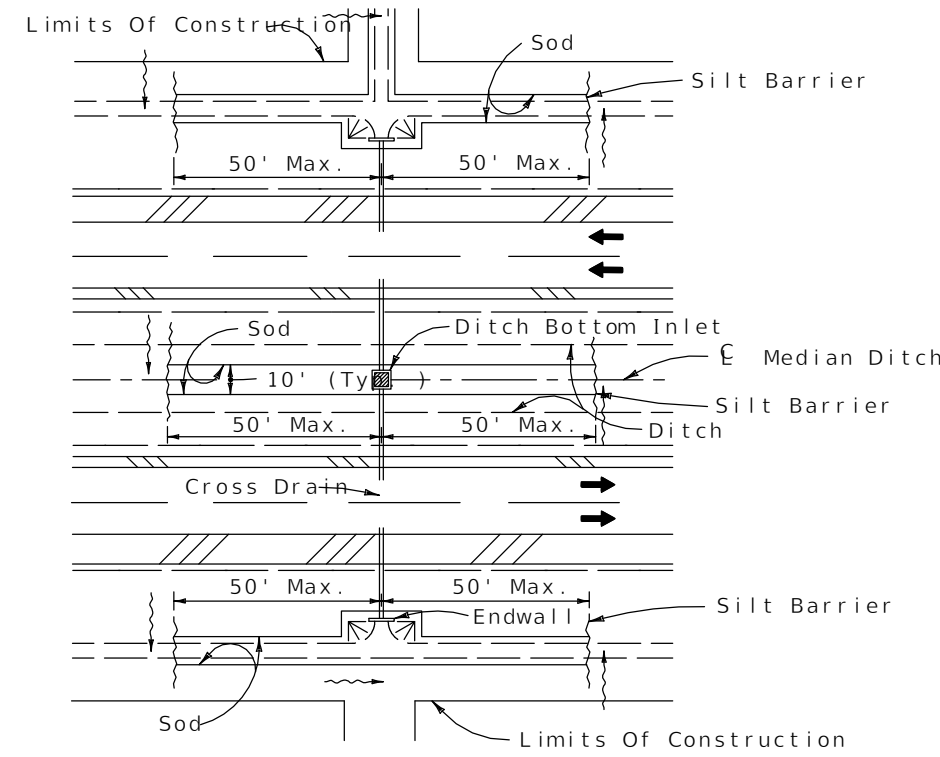


DITCH BOTTOM INLET
Anchor Bales With 2 - 2" x 2" x 4' Stakes Per Bale.

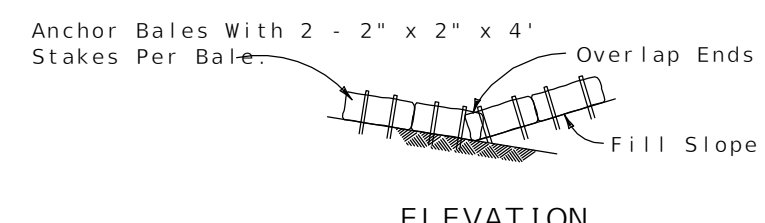
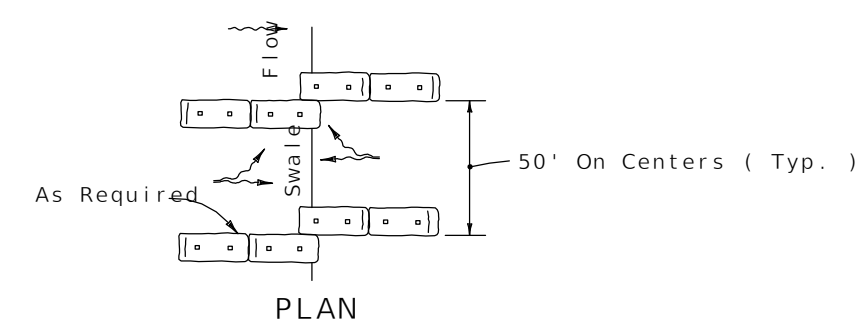
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



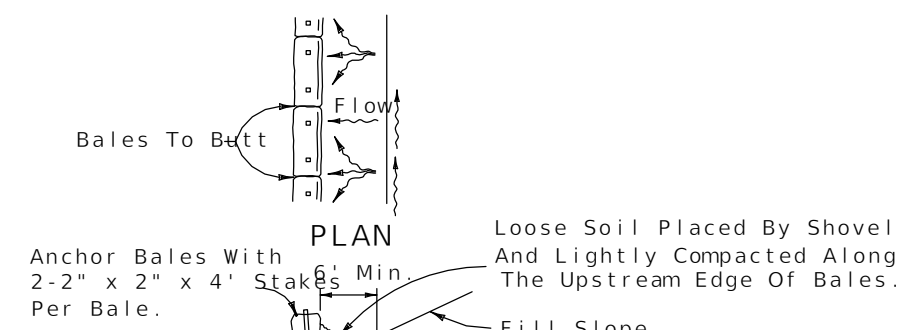
BALES BACKED BY FENCE



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

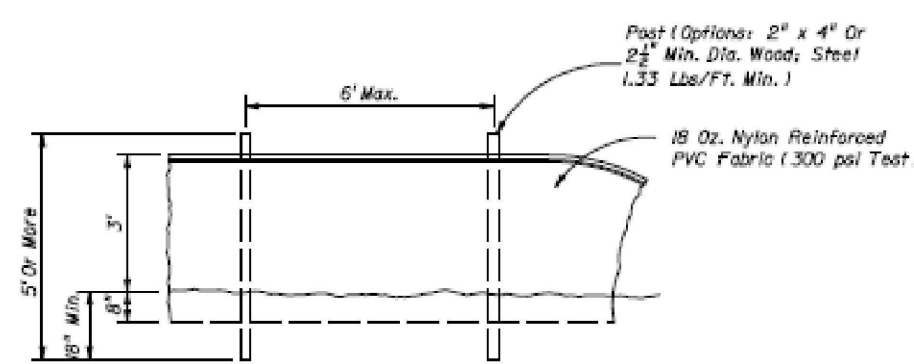


ELEVATION
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



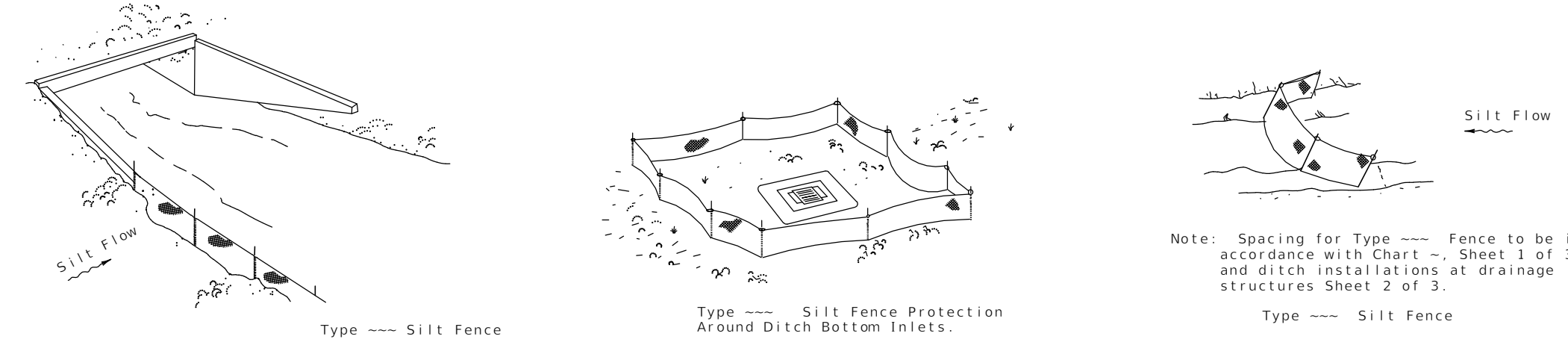
ELEVATION
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

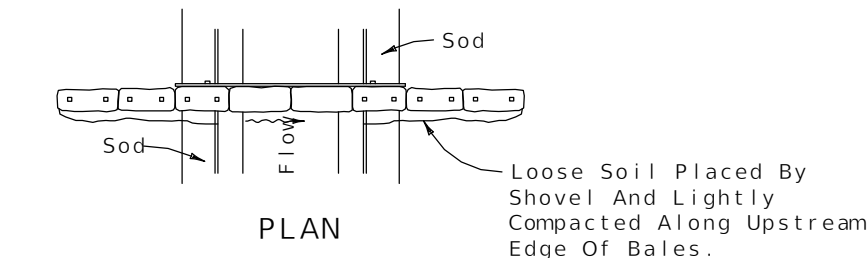


STAKED TURBIDITY BARRIER

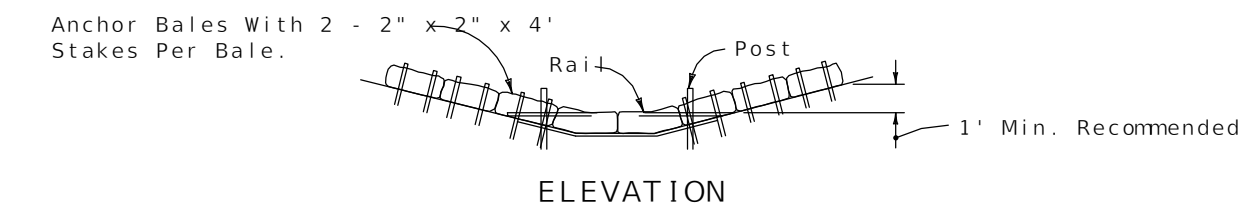
*SEE SILT FENCE DETAILS ON SHEET 21



SILT FENCE APPLICATIONS
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.



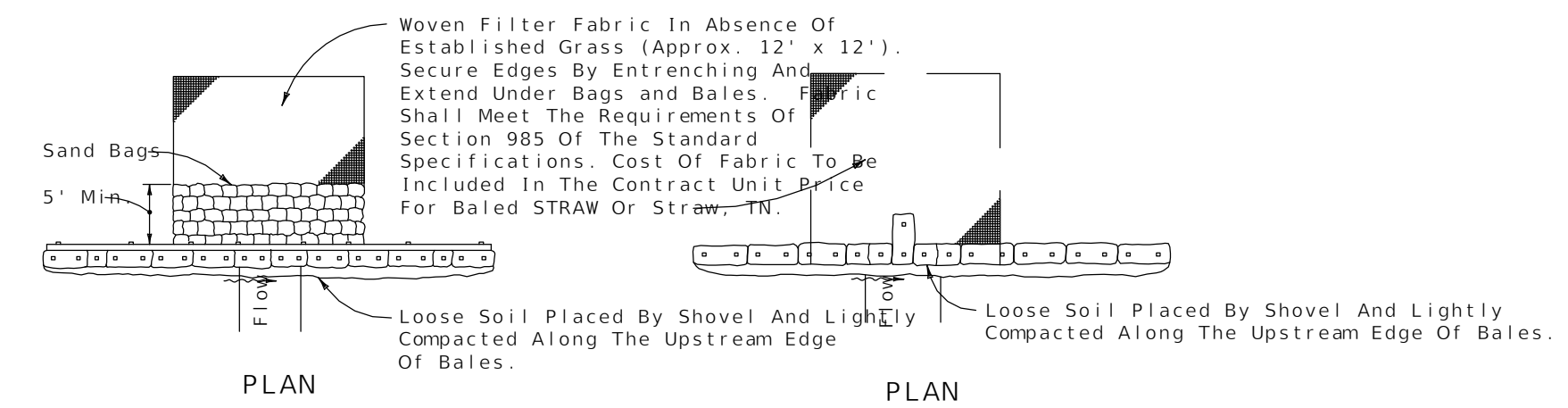
PLAN



ELEVATION

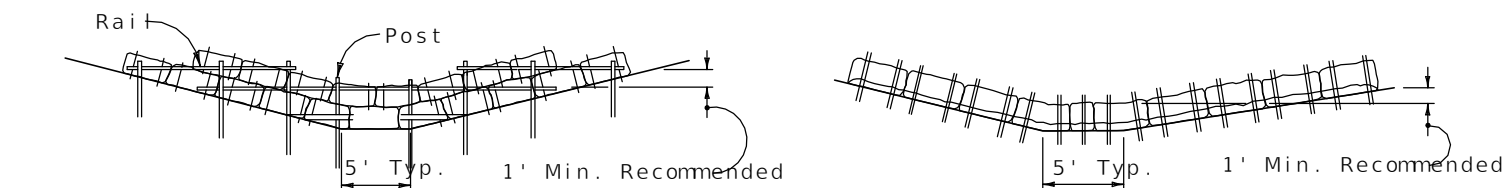
Spacing: Bale barriers for paved ditches should be spaced in accordance with Chart 1, Sheet 1 of 3, Index No. 102

BARRIER FOR PAVED DITCH



PLAN

PLAN



ELEVATION

ELEVATION

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart 1, Sheet 1 of 3, Index No. 102

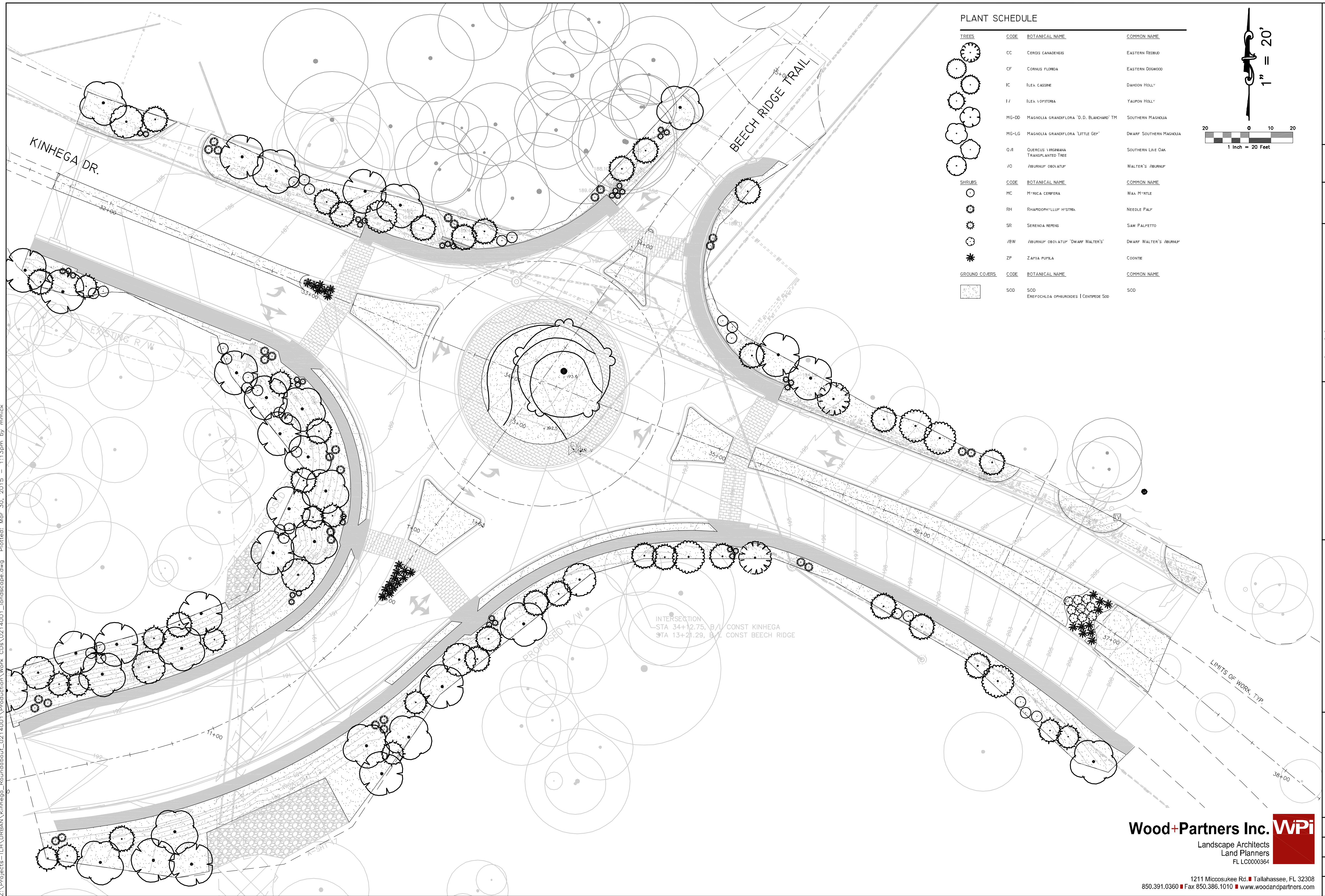
BARRIER FOR UNPAVED DITCHES

BALED STRAW OR STRAW BARRIER AND SILT FENCES

P:\Projects\10-0547\003_Kinhega_Ridge_Roundabout\CADD\Design\Roundabout\CADD\Design\details-EC.dwg Plotted: Mar 11, 2015 - 4:17pm by hwhitfield

REVISIONS	NO.	DATE	DESCRIPTION	BY
DESIGNED BY	BAK	HWW	BAK	BAK
DRAWN BY				
CHECKED BY				
APPROVED BY				
LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501				
EROSION CONTROL DETAILS KINHEGA BEECH RIDGE ROUNDABOUT FINAL PLANS LEON COUNTY, FLORIDA				
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS DRMP 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM				
Certificate of Authorization No. 0527074 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM				
Bryant King, P.E. Florida Engineer # 51994				
PROJECT NO.: 10-0547.003				
SCALE: AS SHOWN				
DATE: 03/10/2015				
DRAWING: 22				
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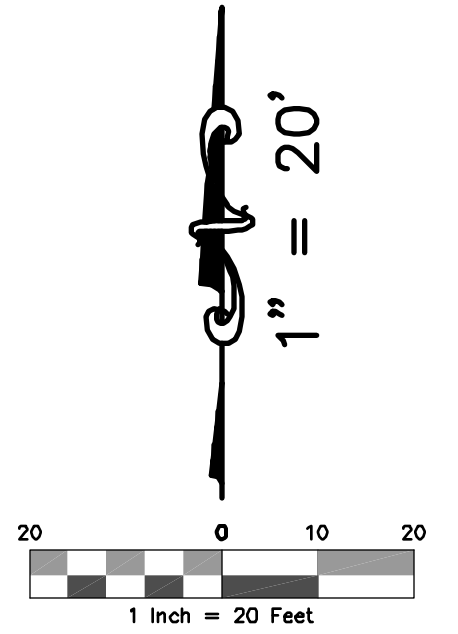


PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME
	CC	CERIS CANADENSIS	EASTERN REDBUD
	CF	CORNUS FLORIDA	EASTERN DOGWOOD
	IC	ILEX CAESINE	DAHON HOLLY
	IV	ILEX VOPITORA	YAUPOIN HOLLY
	MG-DD	MAGNOLIA GRANDIFLORA 'D.D. BLANCHARD' TM	SOUTHERN MAGNOLIA
	MG-LG	MAGNOLIA GRANDIFLORA 'LITTLE GEY'	DWARF SOUTHERN MAGNOLIA
	Q/I	QUERCUS LINGRANHA TRANSPLANTED TREE	SOUTHERN LIVE OAK
	/O	/BURNUP' OBOVATUP'	WALTER'S /BURNUP'
	/BW	/BURNUP' OBOVATUP' 'DWARF WALTER'S'	DWARF WALTER'S /BURNUP'
	ZP	ZAPPA PUPILA	COONTE

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
	MC	MYRICA CERIFERA	WAX MYRTLE
	RH	RHAPHIDOPHYLLUM HYSTRIN	NEEDLE PALM
	SR	SERENDA REPENS	SAW PALMETTO

GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME
	SOD	SOD EREPOCHLOA OPHUROIDES CENTPEDE SOD	SOD



DESIGNED BY	MM	DESIGNED BY	
	MM	DRAWN BY	
CHECKED BY	SK	CHECKED BY	
	MB	APPROVED BY	

LEON COUNTY DEPARTMENT OF PUBLIC WORKS	
2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308	
PHONE (850) 606-1500	
FAX (850) 606-1501	

PLANTING PLAN
KINHEGA & BEECH RIDGE ROUNDABOUT
FINAL PLANS
LEON COUNTY, FLORIDA

DRMP	ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
	Certificate of Authorization No. 2648
	1435 East Piedmont Drive, Suite 210
	Tallahassee, Florida 32308
	Phone: 850.562.9600 WWW.DRMP.COM

Mark L. Baker, RLA, ASLA NO. LA6666776
PROJECT NO.: 02-14001
SCALE: AS SHOWN
DATE: 03/30/15
DRAWING: L1

Wood+Partners Inc. WPI
Landscape Architects
Land Planners
FL LC0000364

1211 Miccosukee Rd. Tallahassee, FL 32308
850.391.0360 Fax 850.386.1010 www.woodandpartners.com

DO NOT SCALE THIS DRAWING — DIMENSIONS AND NOTES TAKE PREFERENCE

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	CAL	HT	QTY	
	CC	CERCIS CANADENSIS	EASTERN REDBUD	FG	3"	14'-16'	2	
	CF	CORNUS FLORIDA	EASTERN DOGWOOD	FG	3"	12'-16'	5	
	IC	ILEX CASSINE	DAHOON HOLLY	FG 2" CAL	2" CAL.		27	
	IV	ILEX VOMITORIA	YAUPON HOLLY	FG 2" CAL	2" CAL.		14	
	MG-DD	MAGNOLIA GRANDIFLORA 'D.D. BLANCHARD' TM	SOUTHERN MAGNOLIA	FG 2" CAL	2" CAL.		19	
	MG-LG	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	DWARF SOUTHERN MAGNOLIA	FG 2" CAL	2" CAL.		16	
	QVI	QUERCUS VIRGINIANA TRANSPLANTED TREE	SOUTHERN LIVE OAK	FG	18"	45'	1	
	VO	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	FG 2" CAL	2" CAL.		6	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE	HT	SFR	QTY
	MC	MYRICA CERIFERA	WAX MYRTLE	7 GAL.		3'	3-5'	29
	RH	RHAPIDOPHYLLUM HYSTRIX	NEEDLE PALM	7 GAL.		2'-3'	4-7'	29
	SR	SERENGA REPENS	SAW PALMETTO	7 GAL.	2'-3'	2'-3'		36
	VBW	VIBURNUM OBOVATUM 'DWARF WALTER'S'	DWARF WALTER'S VIBURNUM	7 GAL.		2'-3'	3-5'	9
	ZP	ZAMIA FUMILA	COONTIE	1 GAL				29
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY		
	SOD	SOD EREMOCHLOA OPHIURIODES CENTIFEDE SOD	SOD	SOD		30,615 SF		

MINIMUM LANDSCAPE REQUIREMENTS

- PLANT MATERIAL SIZING**
- WHERE UNDERGROUND UTILITIES CONFLICT WITH PROPOSED PLANTINGS, TREE PLACEMENT SHALL BE A MINIMUM OF 10'-0" FROM THE UNDERGROUND UTILITY AND A ROOT BARRIER OF 2'-0" DEEP SHALL BE INSTALLED.
- PLANTING SOIL VOLUME**
- EXCAVATE TO A DEPTH OF THREE FEET BELOW FINISHED GRADE OF PLANTING AREA AND REPLACE WITH NON COMPACTED FRIABLE TOPSOIL.
- GROUND COVER:**
- (OTHER THAN LAWN GRASS) SHALL BE PLANTED SO AS TO PROVIDE 75 PERCENT COVERAGE WITHIN ONE YEAR OF PLANTING.
- LAWN GRASSES:**
- SHALL BE A PERENNIAL SPECIES CAPABLE OF THRIVING IN LEON COUNTY, FLORIDA.
- MULCH:**
- 3" MINIMUM DEPTH. CYPRESS MULCH IS NOT ALLOWED.
- TRANSPLANTED TREES:**
- CONTRACTOR SHALL SUBMIT A PROPOSED WORK AND MANAGEMENT PLAN TO OWNER AND OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. TRANSPLANTED TREE SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE TIME OF FINAL ACCEPTANCE.
- IRRIGATION:**
- SEE SHEET IRI FOR IRRIGATION OF REQUIRED LANDSCAPE AREA.
 - IRRIGATION SYSTEM, AS SHOWN ON SHEET IRI, MUST PROVIDE 150 GALLONS PER DAY TO THE TRANSPLANTED LIVE OAK.
 - WATERING OF ALL LANDSCAPE IN THE ROW IS THE RESPONSIBILITY OF THE CONTRACTOR, IN ORDER TO COMPLY WITH THE WARRANTY.

TRANSPLANTED TREE CREDITS (BY OTHERS)

I	QVI	SOUTHERN LIVE OAK	QUERCUS VIRGINIANA	6	6	18'
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PLANTED TREE CREDITS

QUAN	ABBRV	COMMON NAME	BOTANICAL NAME	CREDIT POINTS (EACH)	CREDIT POINTS (TOTAL)	CAL.
2	CC	REDBUD	CERCIS CANADENSIS	2	4	3"
5	CF	EASTERN DOGWOOD	CORNUS FLORIDA	2	10	3"
27	IC	DAHOON HOLLY	ILEX CASSINE	1	27	2"
14	IV	YAUPON HOLLY	ILEX VOMITORIA	1	14	2"
19	MG-DD	SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA 'D.D. BLANCHARD'	1	19	2"
16	MG-LG	DWF. SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	1	16	2"
6	VO	WALTER'S VIBURNUM	VIBURNUM OBOVATUM	1	6	2"
				TOTAL CREDITS	96	

REFORESTATION REQUIREMENTS:

Preserved Tree Credit:	42
Transplanted Tree Credit:	6
Planted Tree Credit:	96
TOTAL REFORESTATION CREDITS PROVIDED:	144
REFORESTATION CREDITS REQ. (20 credits/acre @ 2.8 acres):	56

PLANTING DETAIL NOTES:

- THE CONTRACTOR SHALL ENSURE ALL TREES AND PLANTS ARE HEALTHY AND FLORIDA #1 OR BETTER AT INSTALL. FOR ALL OTHER LANDSCAPE ANSI Z60.1 STANDARDS SHALL BE FOLLOWED.
- THE CONTRACTOR SHALL APPLY HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.
- CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ALL THE SOIL TOGETHER FIRMLY, BUT NOT LONG ENOUGH TO HAVE BECOME POT BOUND.
- FOR DISTURBED AREAS OF EXISTING SOD, CONTRACTOR TO INSTALL SOD OF THE SAME SPECIES. THE CONTRACTOR SHALL LAY SOD SOLIDLY IN ALL INDICATED OR DISTURBED AREAS WITH JOINTS IN CONTACT WITH EACH OTHER. PIN ALL SODDED SLOPES GREATER THAN 4:1 STEEL U PINS/SOD STAPLES. SOD EDGES SHALL BE STAGGERED EACH ROW.
- ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE OWNER.
- THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT THE OWNER APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, LITTER REMOVAL, REMOVAL OF UNDESIRABLE VEGETATION, MAINTENANCE AND EDGING OF BEDLINES, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER.
- THE CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY. ALL PAVED SURFACES ARE TO BE CLEANED OF SOIL AND DEBRIS AT THE CLOSE OF THE WORK DAY.
- EACH TREE AND SHRUB SHALL BE PRUNED AS NEEDED TO REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN/DAMAGED BRANCHES. ALL PRUNING SHALL PRESERVE THE NATURAL HABIT AND CHARACTER OF THE PLANT. FOLLOW ANSI 300 STANDARDS.
- THE CONTRACTOR SHALL APPLY SEED FREE/WEED FREE MULCH TO PLANTED AREAS AT A MINIMUM 3" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. LIMITS OF MULCHING SHALL BE AS SHOWN ON PLAN, OR FOR INDIVIDUAL PLANTS, THE AREA OF THE PLANTING PIT, SEE PLANTING DETAILS.
- CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
- PLANTS WITH BROKEN ROOT BALLS, BOUND ROOTS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED ON THE PLANS.
- CONTRACTOR SHALL STAKE TREES FOR APPROVAL PRIOR TO INSTALLATION. ANY CONFLICTS OR DISCREPANCIES SHALL BE FIELD ADJUSTED AND APPROVED BY OWNER PRIOR TO INSTALLATION.
- NO TREE PLANTING SHALL OCCUR WITHIN APPLICABLE SIGHT DISTANCE TRIANGLE AREAS. CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREE PLANTINGS IN THE RIGHT-OF-WAY IN THE FIELD PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE OWNER. OWNER SHALL AGREE TO MAINTAIN THE STRUCTURE OF TREE PLANTINGS IN THE RIGHT-OF-WAY TO ELIMINATE SIGHT DISTANCE CONFLICTS.
- SHRUBS, ORNAMENTAL GRASSES, AND GROUNDCOVERS SHALL BE LAID OUT ON THE GROUND FOR APPROVAL BY THE OWNERS REPRESENTATIVE. CONTRACTOR SHALL ANTICIPATE THAT SOME RE-ARRANGEMENT OF MATERIAL WILL OCCUR.
- PROVIDE THE OWNER WITHIN SEVEN CALENDAR DAYS ADVANCE NOTICE OF COMPLETING INSTALLATION OF ALL PLANTS AND INCIDENTAL LANDSCAPING. THE ESTABLISHMENT PERIOD WILL BEGIN UPON ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANTS, BY THE OWNER. NOT LESS THAN FORTY-FIVE DAYS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION, SUBMIT A MAINTENANCE PLAN TO THE OWNER. THE MAINTENANCE PLAN IS SUBJECT TO REVIEW AND COMMENT BY THE OWNER. INSTALLATION WILL NOT BE CONSIDERED COMPLETE UNTIL THE MAINTENANCE PLAN HAS WRITTEN APPROVAL FROM THE OWNER. THE MAINTENANCE PLAN SHALL SPECIFICALLY DESCRIBE THE METHODS, ACTIVITIES, MATERIALS AND SCHEDULE TO ACHIEVE THE FOLLOWING AT ALL TIMES THROUGHOUT THE ESTABLISHMENT PERIOD:

- KEEP ALL PLANTS INSTALLED AS SPECIFIED IN THESE PLANS.
- KEEP ALL PLANTS UNDAMAGED, INCLUDING FREE OF PESTS AND DISEASE, PROPERLY HYDRATED AND NOURISHED, TO SUPPORT TO GROWTH AND MAINTAIN FORM AND HABIT SPECIFIED IN THESE PLANS.
- KEEP ALL PLANTS PRUNED TO MAINTAIN PLANT HEALTH, CLEAR VISIBILITY OF SIGNS, TRAFFIC SIGNALS, SAFE SIGHT DISTANCE AT INTERSECTIONS AND DRIVEWAYS, SAFE AND OPERATIONAL HORIZONTAL AND VERTICAL CLEARANCE FROM ROADWAYS, SIDEWALKS, UTILITIES, LIGHT POLES, MECHANICALS EQUIPMENT, FENCES, WALLS AND DRAINAGE STRUCTURES, AND UNOBSTRUCTED ACCESS FOR ALL AUTHORIZED USERS.
- KEEP THE INDIVIDUAL PLANT LOCATIONS AND PLANT BEDS FREE OF LITTER AND UNDESIRABLE VEGETATION.
- KEEP LANDSCAPE BEDS EDGING CORRECTLY LOCATED AND TRIMMED, AND THE MULCH GROOMED AND REPLENISHED AS SPECIFIED IN THESE PLANS
- OPERATE AND MAINTAIN ALL COMPONENTS OF ANY IRRIGATION SYSTEM AS SPECIFIED IN THE PLANS WHEN INSTALLED AS PART OF THE CONTRACT.
- CONTINUE MOWING AND LITTER PICK UP OF THE TURF AREAS.

- ALL PLANT MATERIAL SHALL BE WARRANTED FOR A ONE YEAR PERIOD AFTER FINAL ACCEPTANCE BY THE CONTRACTOR TO BE IN FLOURISHING CONDITION OF ACTIVE GROWTH. AT THE END OF THE ONE YEAR PERIOD, ALL TREES AND PLANTS SHALL BE FLORIDA #1 OR BETTER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE WARRANTY PERIOD AND INFORM THE OWNER IF PROBLEMS DEVELOP WITH THE PLANT MATERIAL. THE CONTRACTOR SHALL REMOVE DEAD AND UNHEALTHY PLANTS IMMEDIATELY AND REPLACE AT THE CONTRACTOR'S EXPENSE. WITHIN THE ONE YEAR PERIOD, THERE SHALL BE EVALUATION OF MAINTENANCE BY OWNER AND, IF NEEDED, CORRECTIVE ACTION TAKEN BY CONTRACTOR. OWNER RESERVES THE RIGHT TO END THE MAINTENANCE SERVICES AT ANY POINT FOR ANY REASON.
- PLANTS SHALL BE DEEMED DEAD IF THE TERMINAL LEADER DIES OR THE PLANT HAS LESS THAN 90% VIABLE LEAF SURFACE AREA.

GENERAL DETAIL NOTES:

- ALL DIMENSIONS PROVIDED FOR WOODEN MATERIALS ARE NOMINAL.
- PLANT CONTAINERS SHALL BE REMOVED PRIOR TO PLANTING. IF PLANTS ARE NOT CONTAINER GROWN, REMOVE A MINIMUM OF THE TOP 1/3 OF BURLAP, FABRIC, OR WIRE MESH. WIRE BASKETS MUST BE COMPLETELY REMOVED PRIOR TO INSTALLATION.
- ROOTFLARES SHALL BE SET 1'-2" ABOVE FINISHED GRADE AND SET PLUMB TO THE HORIZON.
- BACKFILL SHALL BE LOOSENEED EXISTING SOIL. REMOVE ROCKS, STICKS, OR OTHER DELETERIOUS MATERIAL GREATER THAN 1" IN ANY DIRECTION PRIOR TO BACKFILLING. WATER AND TAMP TO REMOVE AIR POCKETS. IF EXISTING SOILS CONTAIN EXCESSIVE SAND, CLAY, OR OTHER MATERIAL NOT CONDUCTIVE TO PROPER PLANT GROWTH CONTACT OWNER'S REPRESENTATIVE PRIOR TO PLANTING. A SOIL TEST TO CONFIRM ADHERENCE TO THE SPECIFICATIONS FOR ANY STOCKPILED OR IMPORTED SOIL WILL BE REQUIRED. SEE SPECIFICATIONS FOR REQUIRED TESTING DATA AND AMEND THE SOIL AS REQUIRED BY THE SOIL TEST.
- SOIL BERMS SHALL BE CONSTRUCTED OF EXISTING SOIL AT THE OUTER EDGE OF THE PLANTING PIT WITH A HEIGHT AND WIDTH OF 6".
- MULCH SHALL BE A 3" MINIMUM DEEP LAYER PLACED TO THE EDGE OF THE TRUNK FLARE, AROUND THE BASE OF SHRUB, OR SOLIDLY AROUND GROUND COVER. MULCH SHALL BE AT A MINIMUM 12" CLEAR FROM TREE TRUNKS AND SHRUB STEMS.
- TREE STAPLES SHALL BE USED TO SECURE TREES.
- THE PLANTING VOLUME FOR ONE OR MORE TREES SHALL BE A MINIMUM OF 1200 CUBIC FEET WITH A MINIMUM WIDTH OF 12 FEET AND DEPTH OF 3 FEET. CONSTRUCTION GRADE FILL MATERIAL WITHIN PLANTING AREAS SHALL BE EXCAVATED TO A DEPTH OF THREE FEET BELOW THE FINISHED GRADE OF THE PLANTING AREA AND REPLACED WITH A NON-COMPACTED "FRIABLE" TOPSOIL. NUTGRASS INFESTED SOIL IS NOT ACCEPTABLE AND MAY NOT BE USED IN ANY MANNER.
- TREE PLACEMENT SHALL BE A MINIMUM OF TEN FEET FROM THE UNDERGROUND UTILITY OR A ROOT BARRIER OF TWO FEET DEEP SHALL BE INSTALLED. SHADE TREE PLACEMENT SHALL BE 30' FROM OVERHEAD UTILITIES.
- ALL TREE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LEON COUNTY CODE OF ORDINANCES AND LAND DEVELOPMENT CODE.

REVISIONS	NO.	DATE	DESCRIPTION	BY
DESIGNED BY	MM			
DRAWN BY	MM			
CHECKED BY	SK			
APPROVED BY	MB			

LEON COUNTY DEPARTMENT OF PUBLIC WORKS
2280 MICCOSUKEE ROAD
TALLAHASSEE, FL 32308
PHONE (850) 606-1500
FAX (850) 606-1501

LEON COUNTY, FLORIDA

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Certificate of Authorization No. 2648
1435 East Piedmont Drive, Suite 210
Tallahassee, Florida 32306
Phone: 850.362.9600 WWW.DRMP.COM

Mark L. Baker, RLA, ASLA
NO. LA8668776

PROJECT NO.: 02-14001

SCALE: AS SHOWN

DATE: 03/30/2015


DRAWING: L2

Wood+Partners Inc. WiPi
Landscape Architects
Land Planners
FL LC000364

1211 Miccosukee Rd. Tallahassee, FL 32308
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LANDSCAPE TECHNICAL MAINTENANCE PLAN

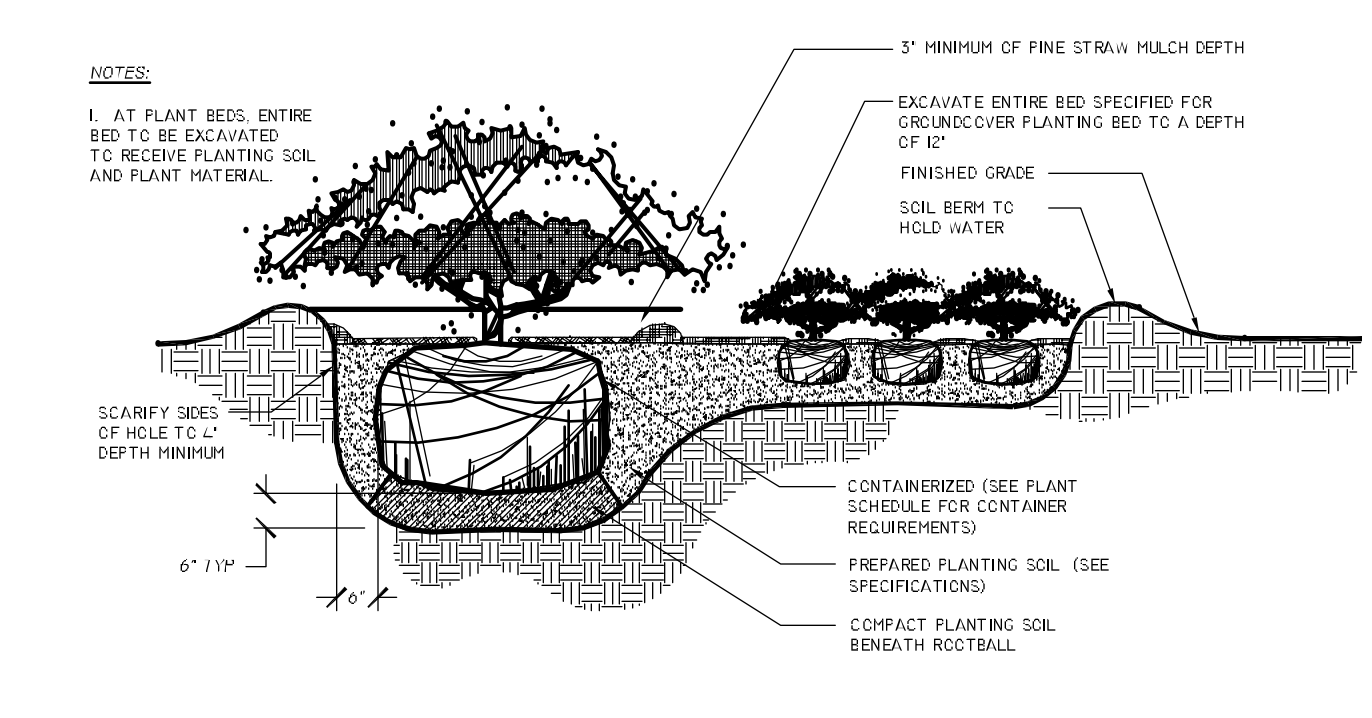
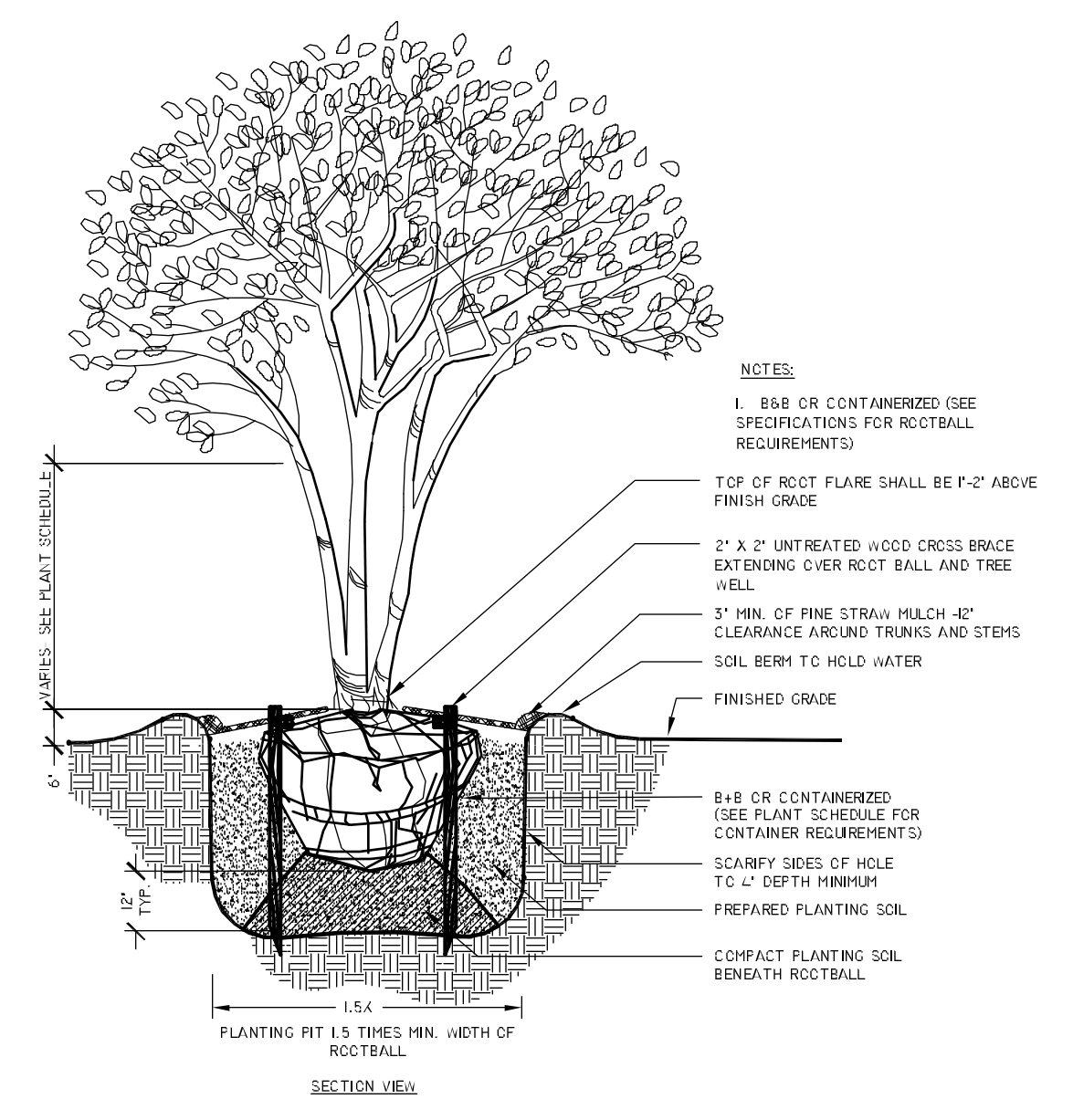
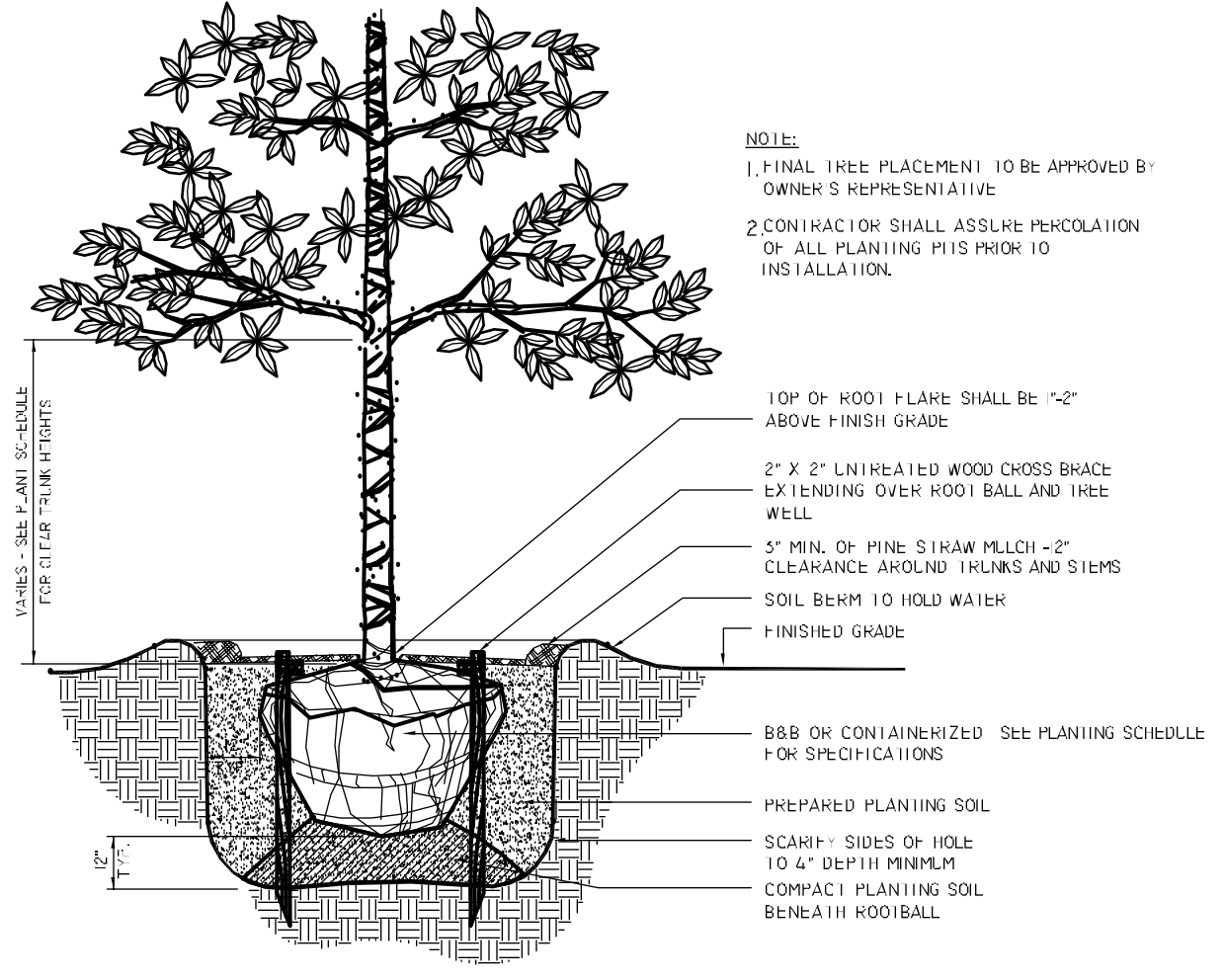
Maintenance Operation	Operations noted herein shall be performed by the contractor during the establishment period. Assume responsibility for proper maintenance condition and plant health as set forth in the landscape plan for a period of 12 months after the final acceptance of all work under this contract.											
Week/Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing		X	X	XX	XX	XX	XX	XX	XX	XX		
	Mow twice per month beginning April 1 through October 31. Set mower height to avoid scalping the turf. No lower than 3 inches.											
Edging		X	X	XX	XX	XX	XX	XX	XX	XX		
	Contractor to edge landscape planting beds, sidewalks, and curbs within project limits.			Edging by mechanical edger, same frequency as mowing.								
Recommended Watering Schedule	Trees (Watering Frequency)			Shrubs (Watering Frequency)			Watering General Notes					
	<2" Caliper	Daily for two weeks; every other day for two months, weekly until established.		Month 1	Daily for the first two weeks. Every other day for the remaining two weeks.		The contractor shall water all landscape plants and turf grass as needed after establishment to meet proper maintenance conditions as described in the landscape plan and contract documents. Watering shall be the sole responsibility of the contractor until the 12 month establishment period is accepted by the owner. The contractor shall water as directed using an irrigation system or manual watering procedures as directed by the owner. Never apply irrigation if the soil is saturated. Supplemental watering is applied to encourage vigorous growth and plant establishment.					
	2-4" Caliper	Daily for one month; every other day for three months; weekly until established.		Month 2	Twice per week.							
	>4" Caliper	Daily for 6 weeks, every other day for five months, weekly until established.		Month 3	Once per week until established.							
XX	XXY	XX	XX	XX	XXY	XX						
Weed Control	Contractor to weed all planting beds twice per month. Landscape areas shall be kept weed free.			Weeding of landscape areas utilizing appropriate selective and non-selective herbicides, applied as per manufacturer's specifications, under the supervision of a licensed applicator by FDACS. Application of herbicides shall be done with extreme caution to prevent damage to landscape and tree plantings. NOTE Y -Application of Snapshot granular herbicide at 200#/ acre rate as per manufacturer's specifications and limitations.								
Pruning	Must maintain Florida #1 or better form for final acceptance at the end of the 12 month establishment period.			Pruning for trees, shrubs, and groundcovers to be performed in accordance with the ANSI A300 guidelines and FDOT design standard index 546. All trees within medians shall be pruned to maintain sight distance for vehicles and pedestrians. Additionally, prune trees as needed to remove dead, diseased, or broken branches, fronds, and seed heads.								
Fertilization	All fertilization methods, timing, and application rates must be in accordance with Section 10-14 of the Leon County Land Development Code.											
Litter Removal	X	X	X	XX	XX	XX	XX	XX	XX	XX	X	X
	Litter removal within the project limits. To be completed in conjunction with the mowing schedule, but immediately prior to mowing. The months of November, December, and January shall also have litter removed once per month.											
Mulching 3" Depth Pine Bark Nuggets	Mulch should be applied after landscape material has been installed and air pockets have been filled.			Mulch shall be free of vegetative yard waste, plastic, glass, metal, palm fronds, sand, and other foreign materials. Mulch shall be consistent in appearance. Mulch shall be free from viable non-native seed, weed, and grass seed. Maintain a continuous 3" layer of mulch in all planted and mulched areas with the exception of trees. Mulch shall not cover the root ball of any landscape tree. Mulch entire site in month 12 of maintenance/establishment period. Mulch shall be approved by the owner prior to installation.								
Tree Staking	Stake and Guy trees at time of installation.			The contractor shall maintain, repair, and/or replace all staking materials as needed to keep trees upright and to prevent girdling. The contractor shall remove staking at the end of the one year establishment period or as directed by the owner. Refer to landscape details for staking and guying.								
Disease and Insect Control	X	X	X	X	X	X	X	X	X	X	X	X
	Contractor to inspect all landscape material on a monthly basis for insects, mites, fungus, etc., and apply correct control products as needed per manufacturer's specification; to prevent landscape material from falling below the minimum maintenance condition outlined in the landscape plan and contract documents.											
Plant Material Replacement	The contractor shall replace all dead and substandard material (see Landscape plan and contract documents) within 10 days after receiving written notification.											

REVISIONS	DESCRIPTION	DATE	NO.	MM	MM	SK	MB
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY				
<p align="center">LEON COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p align="center">2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501</p> 							
<p align="center">KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS</p> <p align="center">LEON COUNTY, FLORIDA</p> <p align="center">DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE</p>							
<p align="center">DRMP</p> <p align="center">ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS</p> <p align="center">Certificate of Authorization No. 2648 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM</p>							
<p align="right">Mark L. Baker, RLA, ASLA NO. LA6666776</p>							
<p>PROJECT NO.: 02-14001</p> <p>SCALE: AS SHOWN</p> <p>DATE: 03/30/2015</p> <p>DRAWING: L3</p>							

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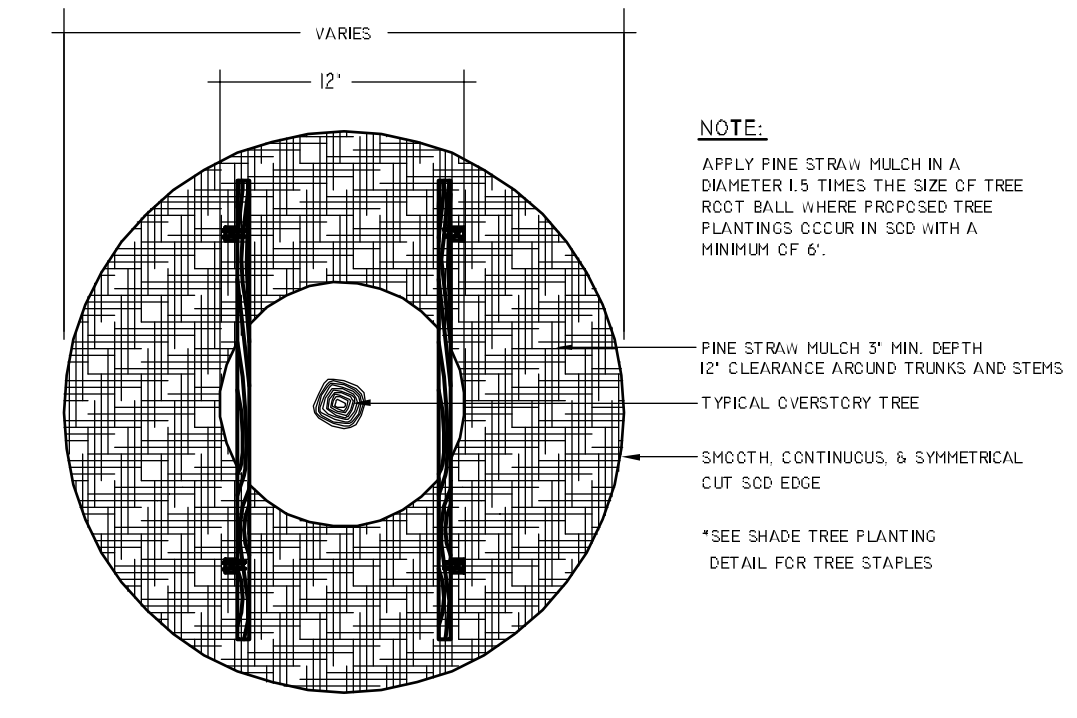
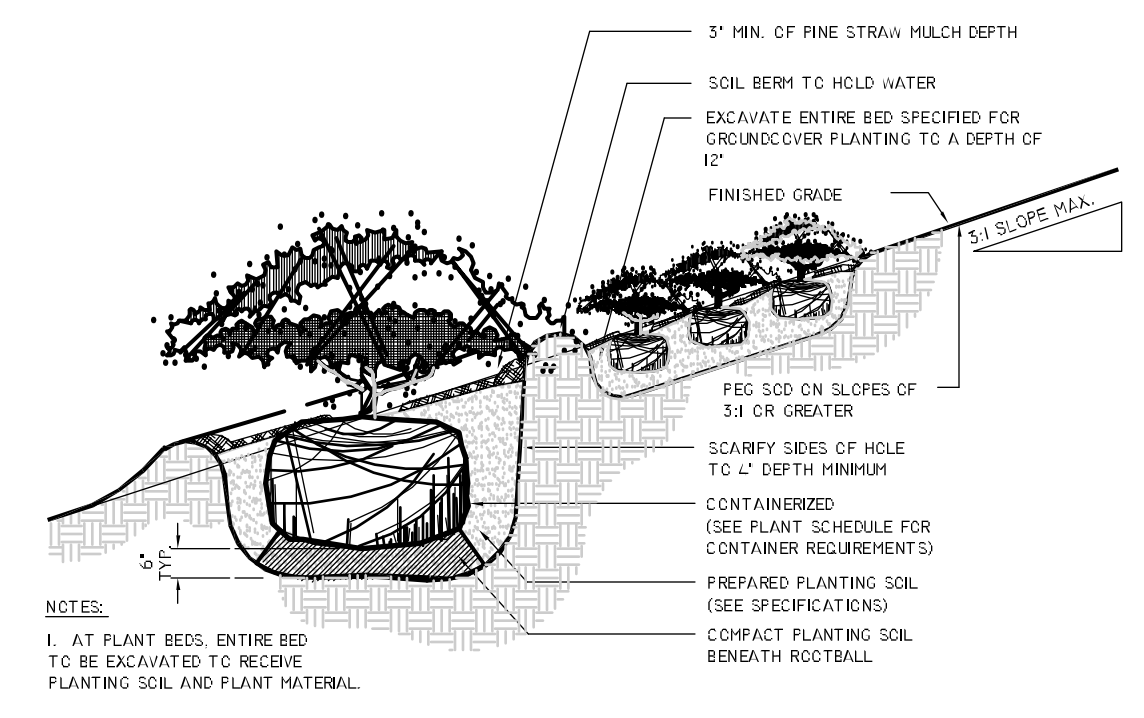
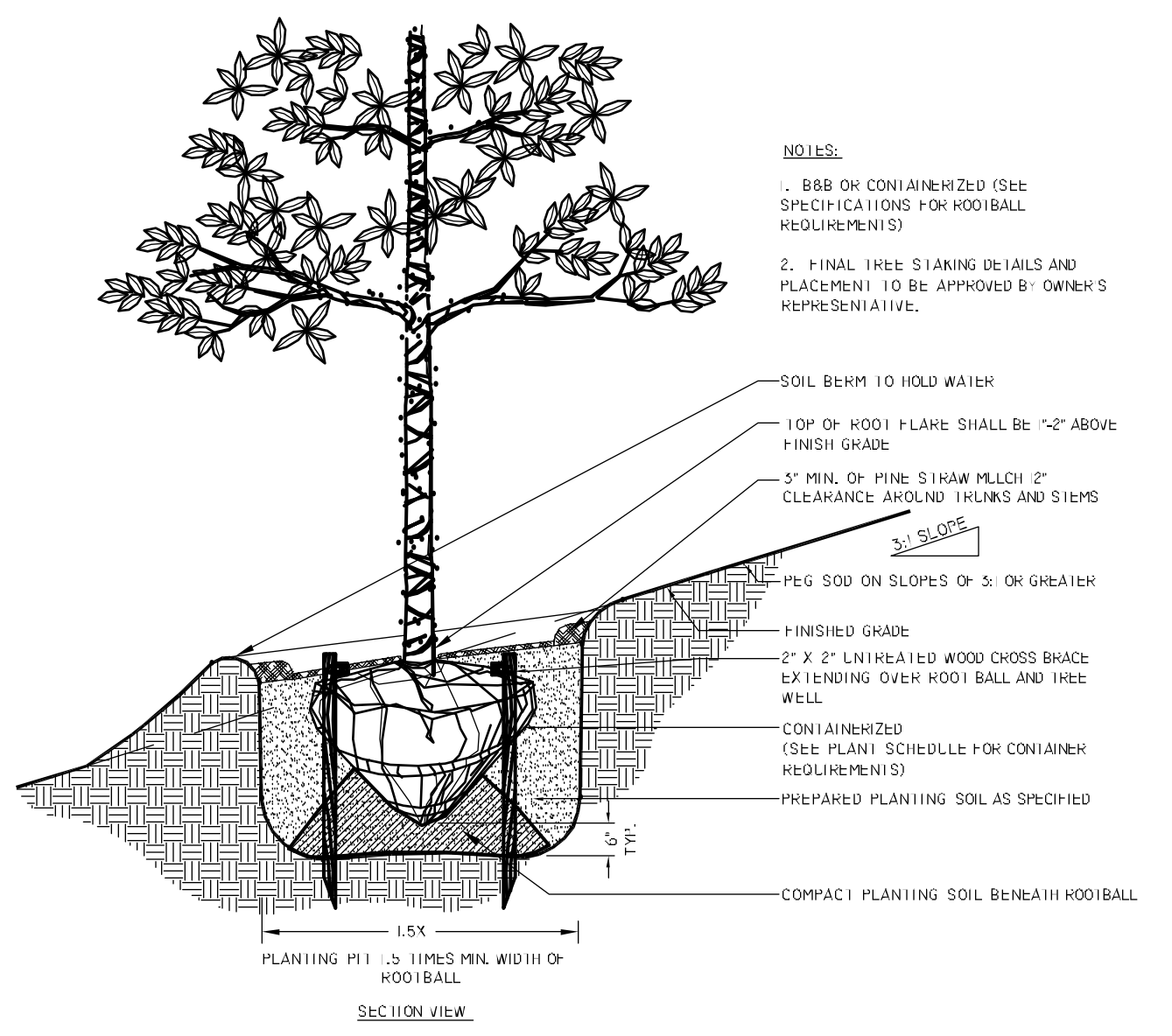
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1 SHADE TREE PLANTING
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2 MULTI-TRUNK TREE PLANTING
 SCALE: NTS

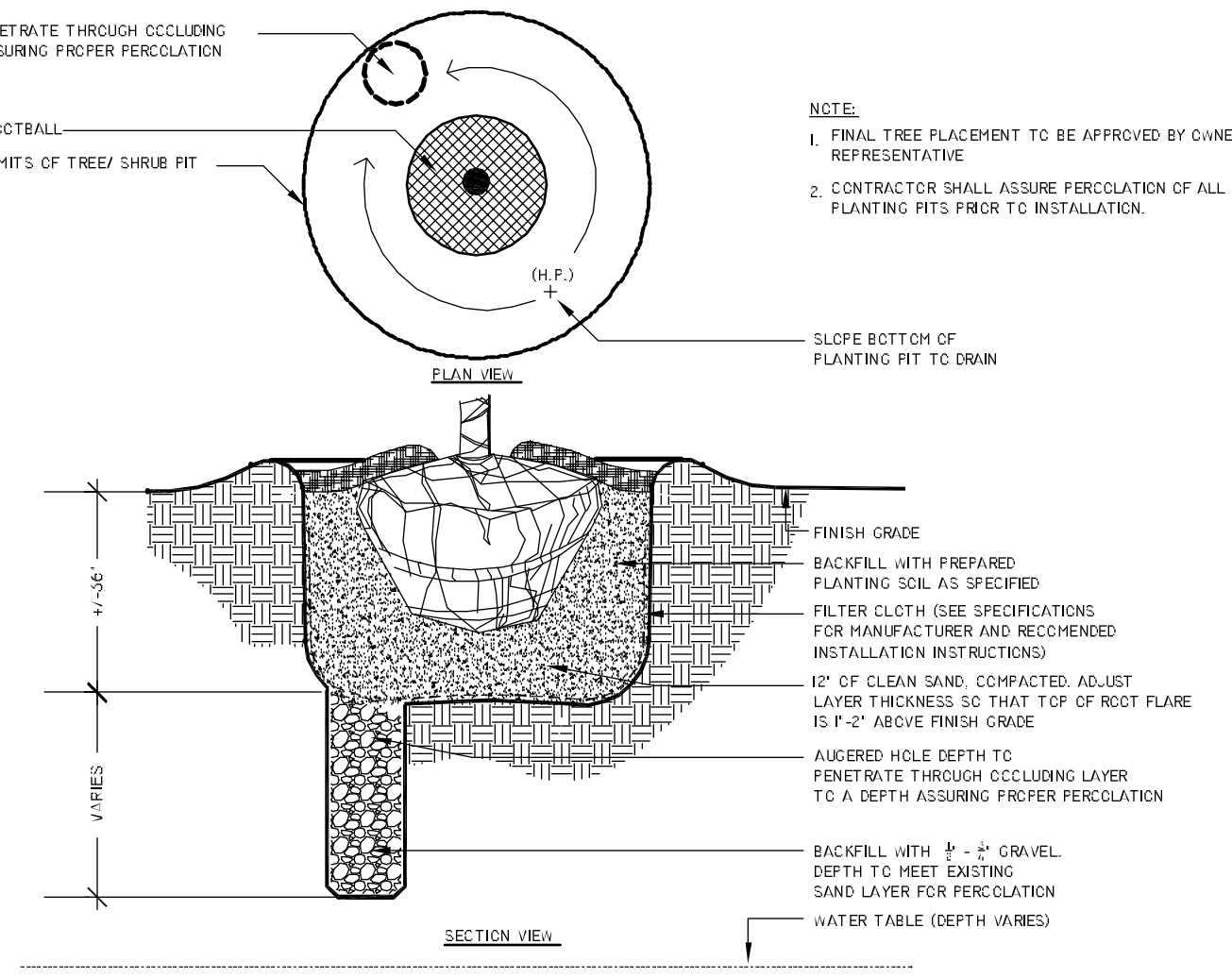
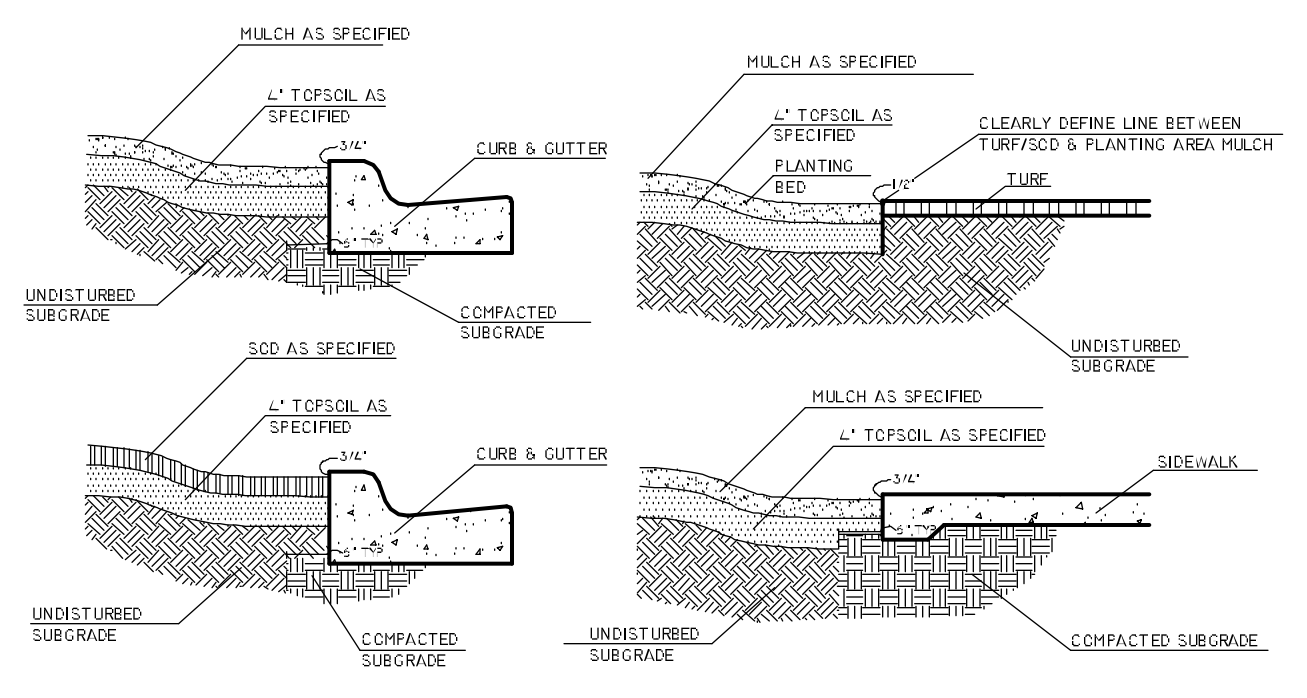
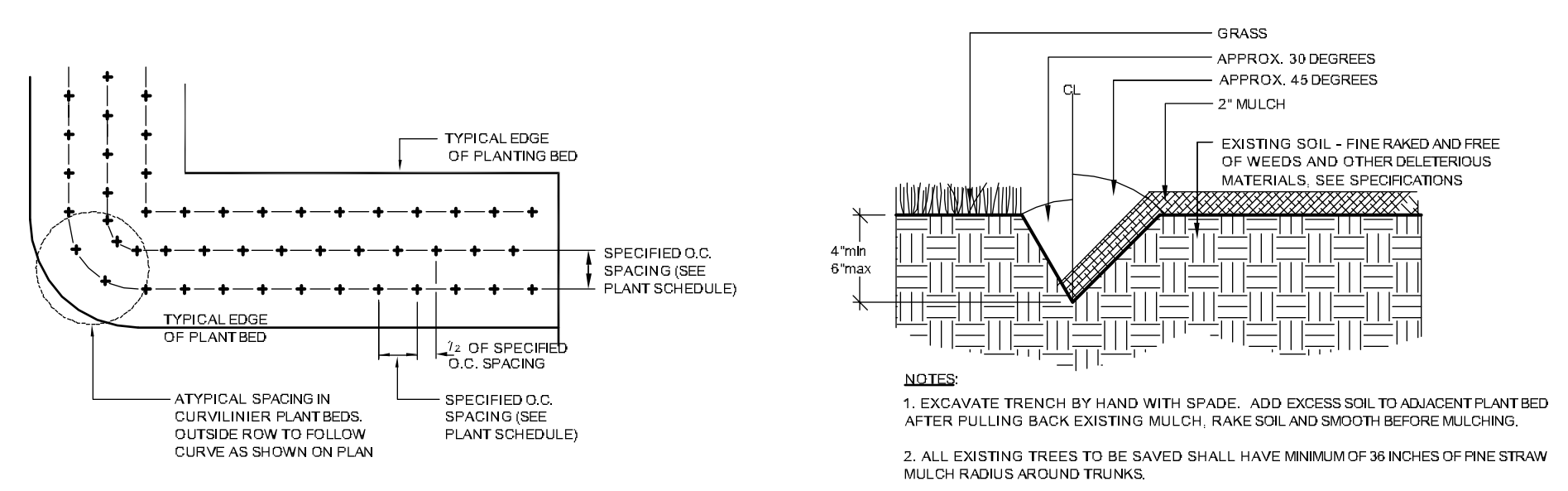
3 SHRUB AND GROUND COVER PLANTING
 SCALE: NTS



4 SHADE TREE PLANTING ON SLOPE
 SCALE: NTS

5 SHRUB AND GROUND COVER PLANTING ON SLOPE
 SCALE: NTS

6 TREE MULCH RING
 SCALE: NTS



7 TYPICAL GROUND COVER SPACING
 SCALE: NTS

8 SOD AND MULCH EDGE
 SCALE: NTS

9 TYPICAL EDGE CONDITIONS
 SCALE: NTS

10 PLANTING IN POOR SOILS
 SCALE: NTS

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 PHONE (850) 606-1500 FAX (850) 606-1501

LEON COUNTY, FLORIDA

PLANTING DETAILS
 KINHEGA & BEECH RIDGE ROUNDABOUT FINAL PLANS
 LEON COUNTY, FLORIDA

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 Certificate of Authorization No. 2648
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 Phone: 850.562.9600 WWW.DRMP.COM

Mark L. Baker, RLA, ASLA NO. LA6666776

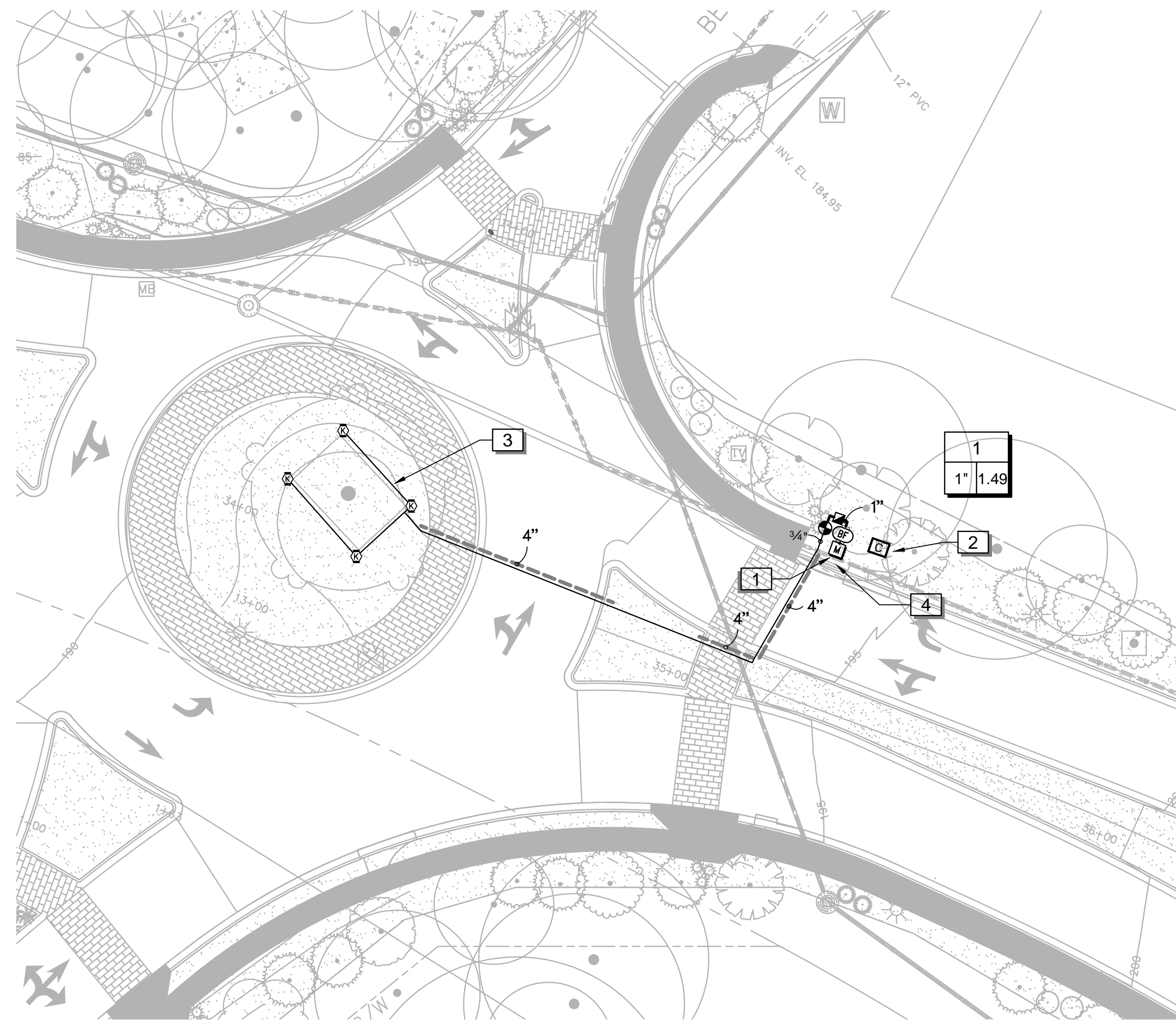
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 DRAWING: L4

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP2000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi. MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
	Hunter PGV-101G 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration, With Flow Control.
	Hunter HQ-33DLRC Quick coupler valve, yellow locking rubber cover, red brass and stainless steel, with 3/4" NPT inlet, 2-piece body.
	Febco 825VA 1" Reduced Pressure Backflow Preventer
	Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Water Meter 3/4" Irrigation Meter
	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.
	Irrigation Mainline: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe.
	Pipe Sleeve: PVC Schedule 40 Irrigation Pipe Sleeve. Sleeve to be 2X the size of the pipe within the sleeve. Extend sleeves 18" beyond the hardscape edge.
	Valve Callout
	Valve Number
	Valve Flow
	Valve Size

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
	Irrigation system water source to be 3/4" service line from water main to a 3/4" water meter and RPZ backflow preventer. System requires 2 gpm at a static pressure of 57 psi. Verify available flow and static pressure prior to construction. If either is insufficient notify the owners representative. Install water meter, backflow preventer and associated piping as per the local water purveyor's requirements.
	Battery operated controller to be located in the valve box.
	Install sprinklers on the outside edge of the tree trench.
	Meter to be tied into proposed water line that will be constructed by Talquin Electric.

CRITICAL ANALYSIS

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

FLOW AVAILABLE
Water Meter Size: 3/4"
Flow Available: 20.23 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 60.00 psi
Elevation Change: 5.00 ft
Service Line Size: 1"
Length of Service Line: 29.00 ft
Pressure Available: 56.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 1.49 gpm
Flow Available at POC: 20.23 gpm
Residual Flow Available: 18.74 gpm

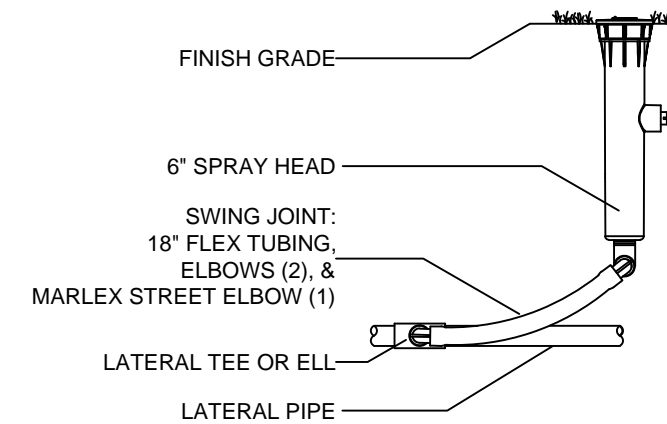
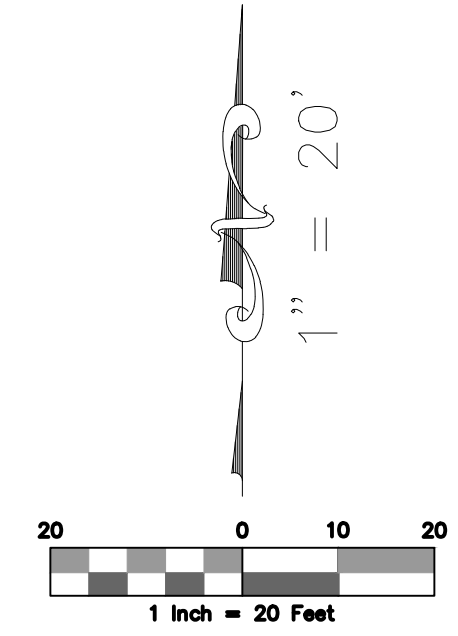
Pressure Req. at Critical Station: 41.38 psi
Loss for Fittings: 0.00 psi
Loss for Main Line: 0.01 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 11.00 psi
Loss for Water Meter: 0.50 psi
Critical Station Pressure at POC: 52.89 psi
Pressure Available: 56.00 psi
Residual Pressure Available: 3.11 psi

150 GPD WATERING SCHEDULE

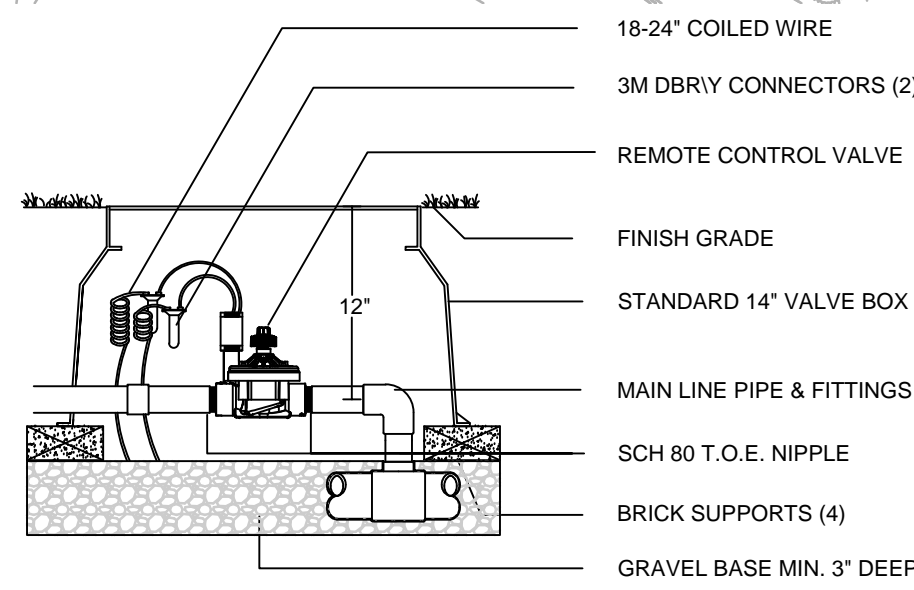
NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN/WEEK	GAL/WEEK	GAL/DAY
1	Hunter PGV-101G	Turf Rotary	0.30 in/h	3.50	694	1,031	147.4
TOTALS:					694	1,031	147.4

GENERAL NOTES

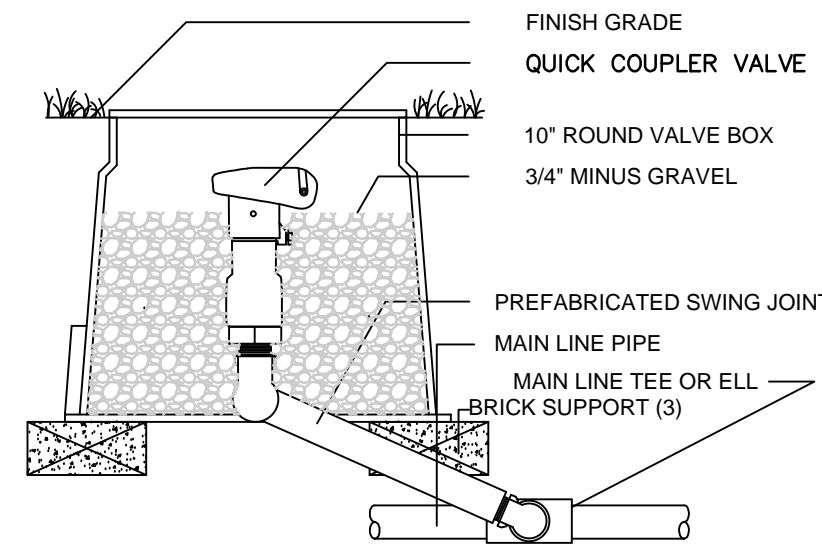
- ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE. IF TRENCHING MUST BE DONE WITHIN TREE DRIP LINE FOLLOW TREE PRESERVATION GUIDELINES FOR THE PROJECT OR LOCAL MUNICIPALITY
- MAINLINE TO HAVE MINIMUM OF 18" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE
- LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE
- NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
- ALL PIPE TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS
- SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS
- CONTROL WIRE TO BE 14 GA UL APPROVED, SINGLE CONDUCTOR, PE JACKETED
- WIRE SPLICES TO BE DONE AS PER DETAILS
- ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
- WIRE TO BE COLOR CODED, RED FOR POWER AND WHITE FOR COMMON
- CONTRACTOR SHALL INSTALL MANUFACTURES GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES
- CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION BY WRAPPING WIRE AROUND 3/4" PIPE 12 TIMES
- AT EACH CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30" LOOP OF EXTRA WIRE
- WIRE TO BE BUNDLED WITH ZIP-TIE EVERY 15'
- SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
- ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS
14" RECTANGULAR FOR EACH ELECTRIC CONTROL VALVE
JUMBO VALVE BOX FOR DRIP ZONE KIT
- SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
- CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
- ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
- ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN LANDSCAPED BEDS WHEREVER POSSIBLE
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED. MAKE ADJUSTMENTS AS NECESSARY
- CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
- PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS
- ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
- CONTRACTOR TO PROVIDE 1 YEAR WARRANTY OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP
- CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION
- INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
- CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.



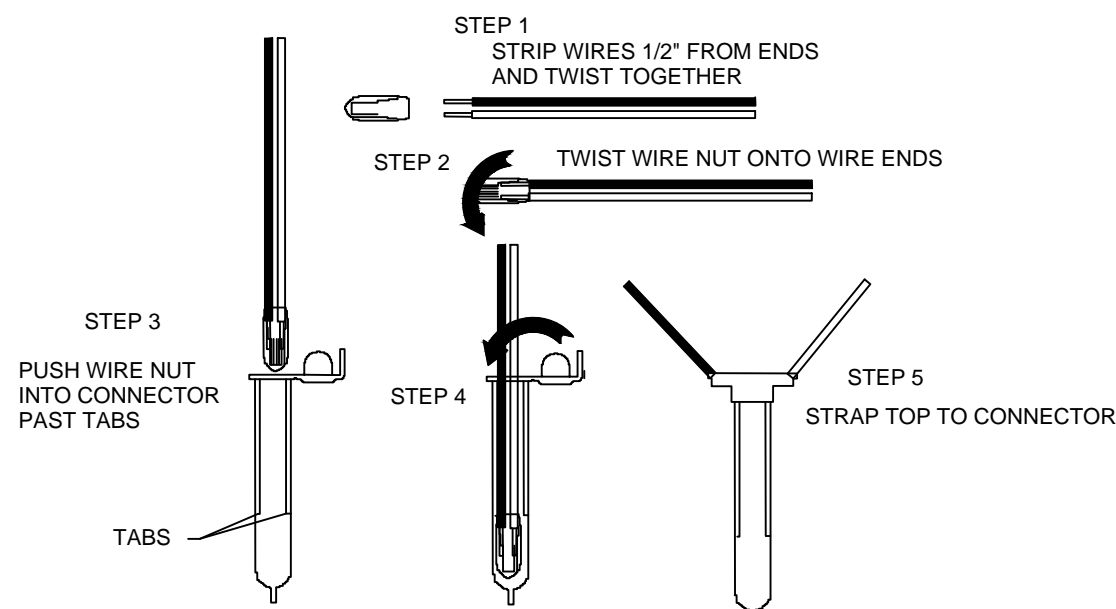
1 6" SPRAY BODY
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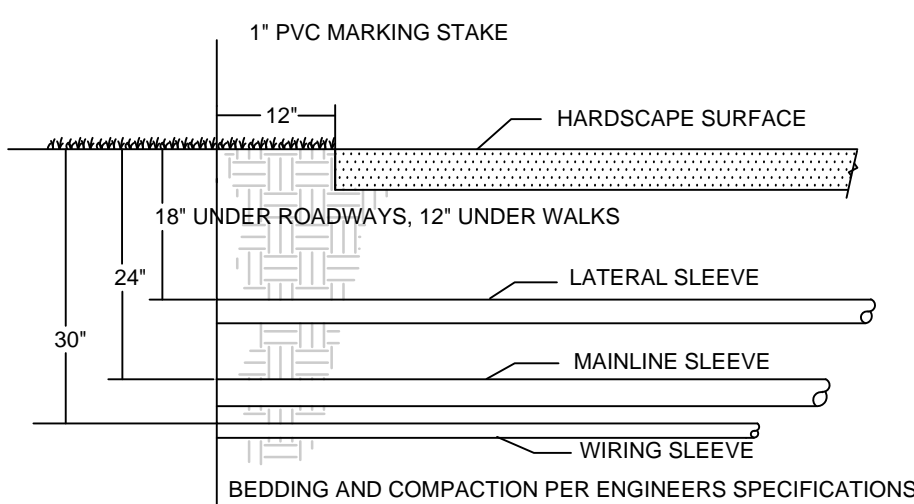
2 ELECTRIC CONTROL VALVE
NTS



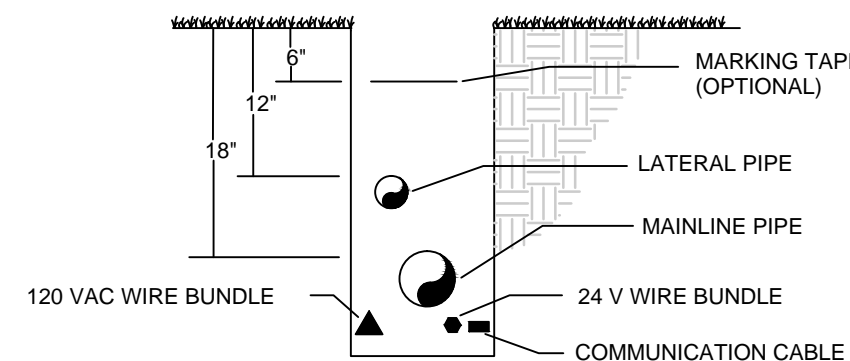
3 QUICK COUPLER VALVE
NTS



4 WIRE CONNECTION 3M-DBR6-Y
NTS



5 SLEEVING
NTS



6 TRENCH, PIPE AND WIRE
NTS

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IRRIGATION PLAN
 KINHEGA & BEECH RIDGE ROUNDABOUT
 FINAL PLANS
 LEON COUNTY, FLORIDA

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Michael Clark CID NO. 000570

PROJECT NO.: 02-14001
 SCALE: AS SHOWN
 DATE: 03/10/15
 DRAWING: IR1

DESIGNED BY: MC
 DRAWN BY: MM
 CHECKED BY: SK
 APPROVED BY: MB

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Wood+Partners Inc. WvPi
 Landscape Architects
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 FL LC0000364

Clark Irrigation Design & Consulting, Inc.
 Sustaining Landscapes. Conserving Water.
 P.O. Box 693 Lavana, Ga 30553
 O: 706-356-0309 F: 706-356-1948

1211 Miccosukee Rd. Tallahassee, FL 32308
 850.391.0360 Fax 850.386.1010 www.woodandpartners.com