

March 18, 2016

BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA
ADDENDUM NO. 1 / IFB Y16-738-EB

Bid Opening Date: March 29, 2016

COMMANDER DRIVE CONCRETE BOX CULVERT CLEANING, INSPECTION AND REPAIR

This Addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~striketrough~~.

A. The following information is provided to answer questions received from prospective bidders:

1. **Question:** Since bypass pumping will be an integral part of this project, would the county know of an adjacent (within close proximity) storm water system that could be used for bypassing of the referenced box culvert flow?

Answer: South of the project a FDOT pipe system exists within Hoffner Rd. some of that system is shown in the FDOT plans attached. However, approval from FDOT and possibly the City of Orlando may be necessary. Stopping the flow from Lake Turnbull may be allowed since it has a few feet of storage now. However, this would need to be monitored every rain event and up to 18 hours after the rain event once the project is under construction.

2. **Question:** Item #9/Performance Turf: There will be areas of turf installation that will require pegging of the turf to vertical areas. There is no bid item for this additional service. How will the successful contractor be reimbursed for this extra work?

Answer: See Part H, Technical Provisions, TP-575 - Performance Turf states that "The Engineer, at any time, may require replanting of any areas in which the establishment of the grass stand does not appear to be developed satisfactory." The Basis of "Payment shall constitute full compensation for furnishing all materials ... until final completion and acceptance by the Engineer." Reimbursement is contemplated under this TP.

3. **Question:** Items #14-Injection and #15-Grouting: Each of these pay items are designated as "each" yet no description of "each" is given. Does this mean each injection port, or lineal foot per injection, etc? The FDOT Section 411(Epoxy Injection of Cracks in Concrete Structures) is referenced under the County specifications. The FDOT Payment Items

are for #411-1/Epoxy Material-per gallon and #411-2/Inject and Seal crack-per foot. Can this be clarified? In addition the referenced FDOT Section #411 is usually used for concrete structures that have access to BOTH sides of the concrete structure. The specifications (411-3 Equipment) calls for injecting epoxy grout at up to 200 psi! Without containment material being placed on the backside of the structure wall (impossible in a buried, box culvert) the epoxy will just follow the path of least resistance, which would be out the backside of the wall and not the crack. In addition the specifications call for Acceptance/#411-9 by coring through the structure wall! This coring is very dangerous as this can allow groundwater intrusion, which in turn allows the soils outside the structure to also enter the culvert. This is what produces the surface depressions on the roadway! Our initial prebid inspection of the culvert shows actual areas of holes in the box and groundwater intrusion, which cannot be stopped by epoxy injection. Standard FDOT Specifications for the rehabilitation of these type deficiencies in concrete pipe structures are covered by FDOT Section #431 Pipe Liner(#431-3 and Section #432 Grout Repair for Storm Drain Pipes) and the FDOT Pipe Repair Matrix. These items are used all most all of the time on FDOT projects (Altair is providing a copy of each of the FDOT items under separate email). Altair would like to request that the County review these grout items for further consideration.

Answer: It's intended to have the bidder furnish written evidence showing personnel training and an on-site qualified supervisor to the County prior to beginning any epoxy injections. The grouting will be for each joint. The epoxy injection will be for each crack. The required video after cleaning and before repair will determine the number of cracks and joint needing repairs and will be agreed upon by the contractor and the County prior to repair. The post video will be the proof of repair in lieu of coring for acceptance. This is in TP-X-1.

B. All other terms, conditions and specifications remain the same.

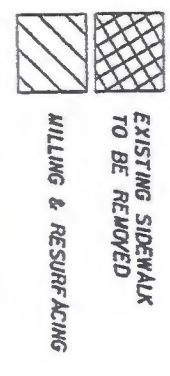
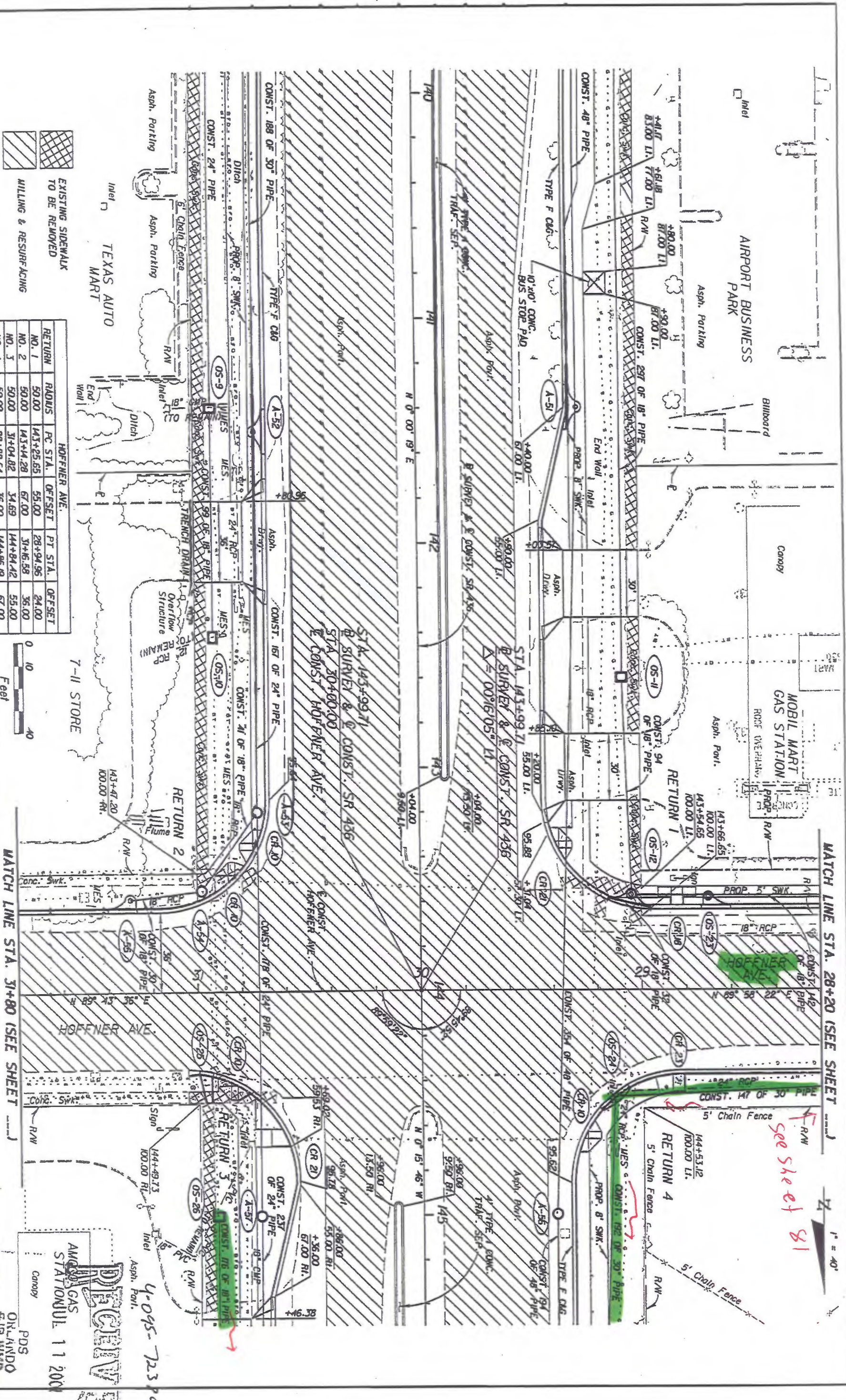
C. 1. The Proposer shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of proposals.

2. Receipt acknowledged by:

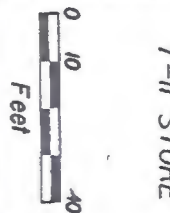
_____ **Authorized Signature** _____ **Date Signed**

_____ **Title**

_____ **Name of Firm**



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NO. 1	50.00	143+25.55	55.00	28+94.96	24.00
NO. 2	50.00	143+14.28	67.00	31+6.58	36.00
NO. 3	50.00	31+04.82	34.69	144+84.42	55.00
NO. 4	50.00	28+82.54	36.00	144+85.19	67.00



WATCH LINE STA. 28+20 (SEE SHEET ...)

WATCH LINE STA. 31+80 (SEE SHEET ...)

DECEMBER 11 2000

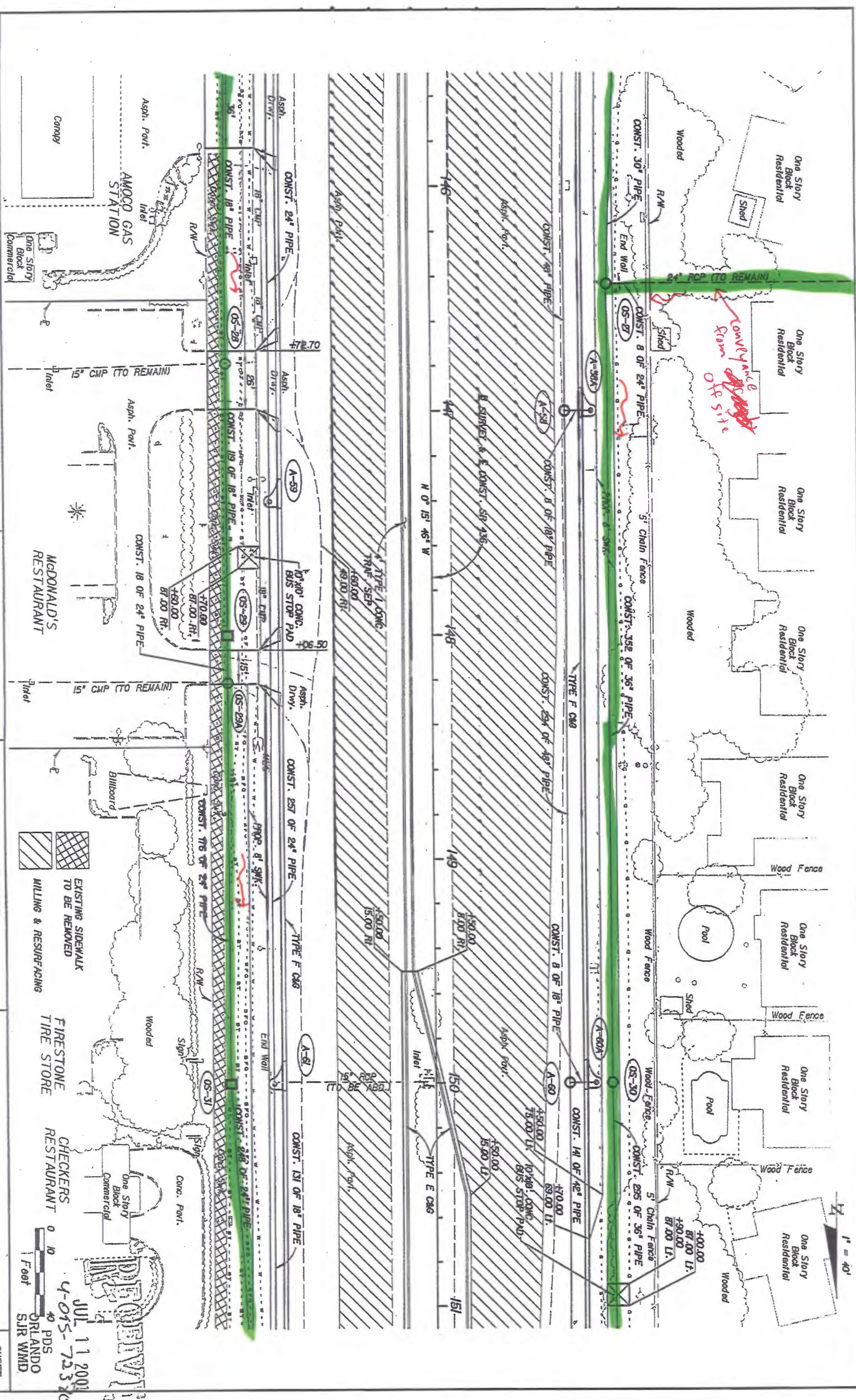
ORLANDO

PDS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Carter Burgess 600 LEGION PLACE, SUITE 400 ORLANDO, FLORIDA 32801 (407) 54-1400 REGISTRATION NO. EB-0005300	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY ORANGE FINANCIAL PROJECT NO. 239454-2-52-01	SR 436 PLAN Sta 139+90 to Sta 145+50	SHEET NO. 49
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see sheet 81



DATE	BY	DESCRIPTION

REVISIONS	DATE	BY	DESCRIPTION

Carter Burgess
 100 LEGION PLACE, SUITE 400
 ORLANDO, FLORIDA 32801
 (407) 54-4400
 REGISTRATION No. EB-0003300

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 COUNTY ORANGE
 FINANCIAL PROJECT ID 239454-2-52-01
 SR 436

SR 436 PLAN
 Sca 145150 to Sca 151410

SHEET NO. 50

AMOCO GAS STATION
 Inlet
 One Story Commercial
 Canopy

MCDONALD'S RESTAURANT
 Inlet
 15' CMP (TO REMAIN)
 15' CMP (TO REMAIN)

EXISTING SIDEWALK TO BE REMOVED
 MILLING & RESURFACING

FIRESTONE TIRE STORE
 CHECKERS RESTAURANT
 One Story Commercial
 Conc. Pavt.

JUL 11 2001
 4-015-723
 ORLANDO SJR WMD

1" = 40'

CONV. AND ELEV. FROM OFF SITE

24" RCP (TO REMAIN)

TYPE F C&G

TYPE E C&G

1" = 40'

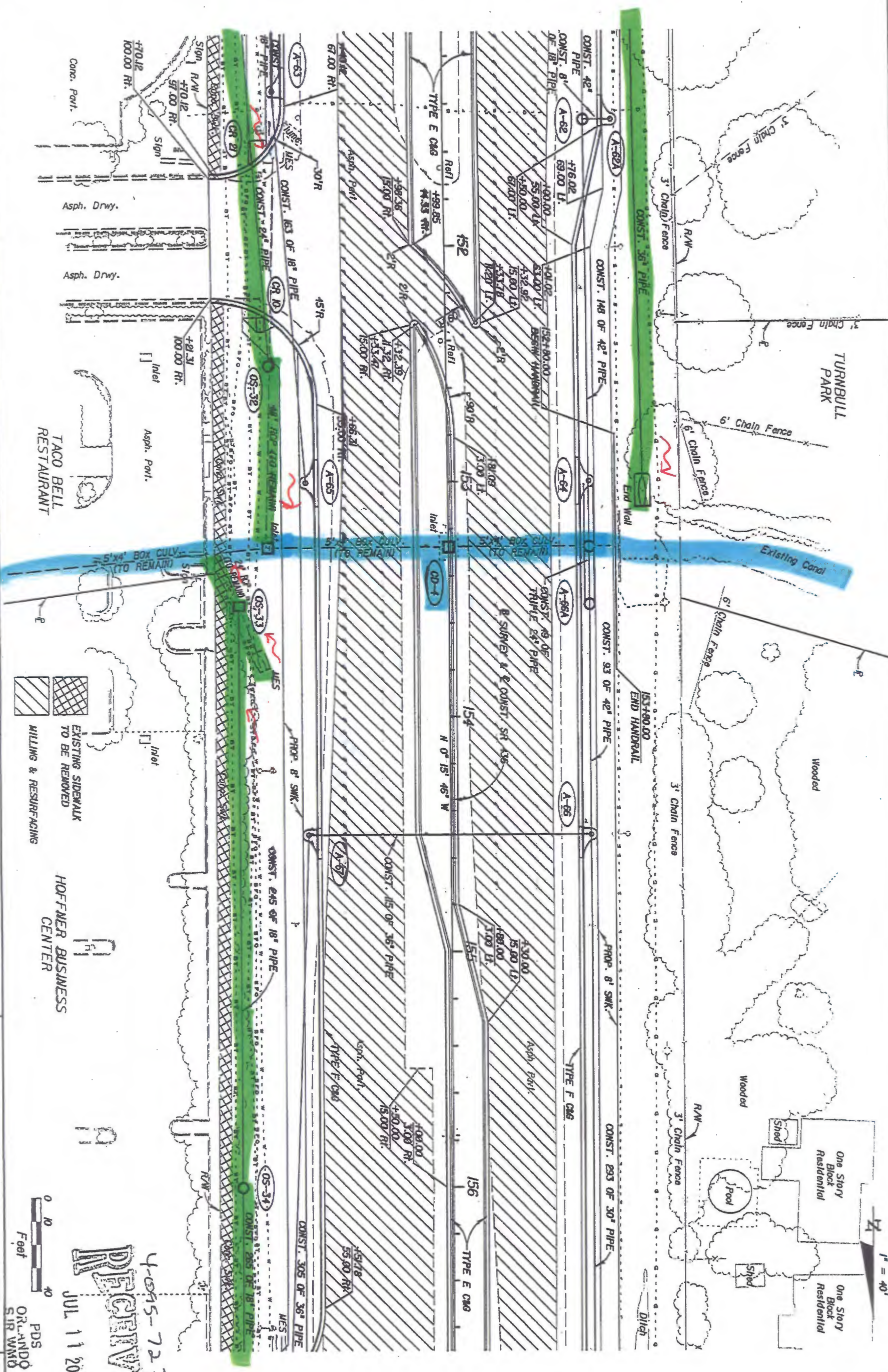
CONV. AND ELEV. FROM OFF SITE

24" RCP (TO REMAIN)

TYPE F C&G

TYPE E C&G

1" = 40'



DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

Carter Burgess
 100 LEGION PLACE, SUITE 400
 ORLANDO, FLORIDA 32801
 (407) 54-1400
 REGISTRATION NO. EB-0005300

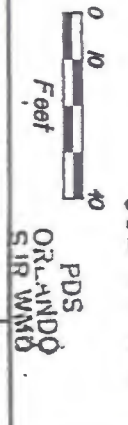
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 COUNTY ORANGE
 FINANCIAL PROJECT ID 239454-2-52-01
 ROAD NO. SR 436

SR 436 PLAN
 Sta 151+10 to Sta 156+70

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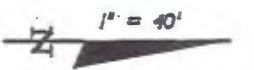
EXISTING SIDEWALK TO BE REMOVED
 MILLING & RESURFACING

HOFFER BUSINESS CENTER

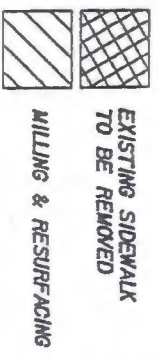
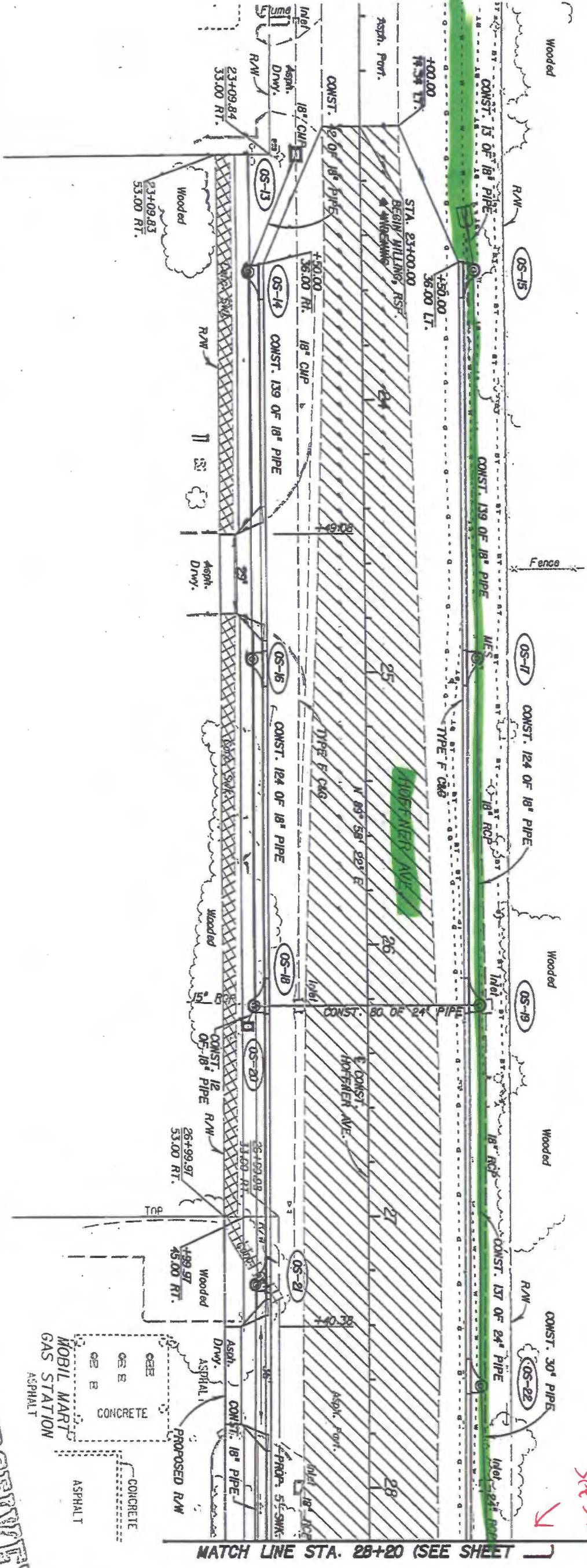


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SHEET NO. 51



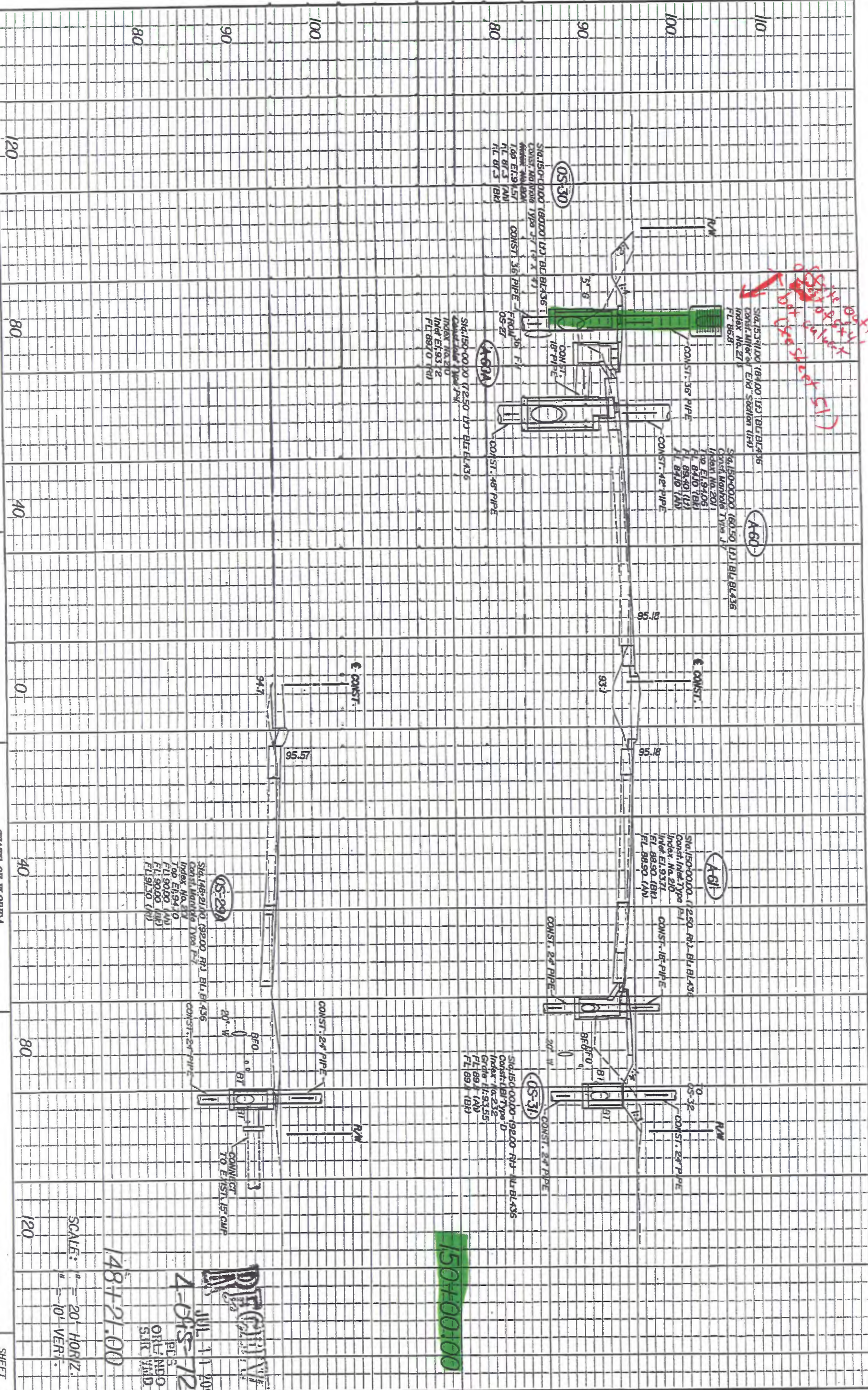
See Sheet 49



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DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
<p>Carter Burgess 600 LEGION PLACE, SUITE 400 ORLANDO, FLORIDA 32801 (407) 514-4400 REGISTRATION No. EB-0005300</p>						
<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p>			<p>ROAD NO. SR 436</p>			
<p>COUNTY ORANGE</p>			<p>FINANCIAL PROJECT ID 239454-2-52-01</p>			
<p>PROJECT NO. Sta 23+00 to Sta 28+20</p>			<p>SHEET NO. 81</p>			

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SEE SHEET 171
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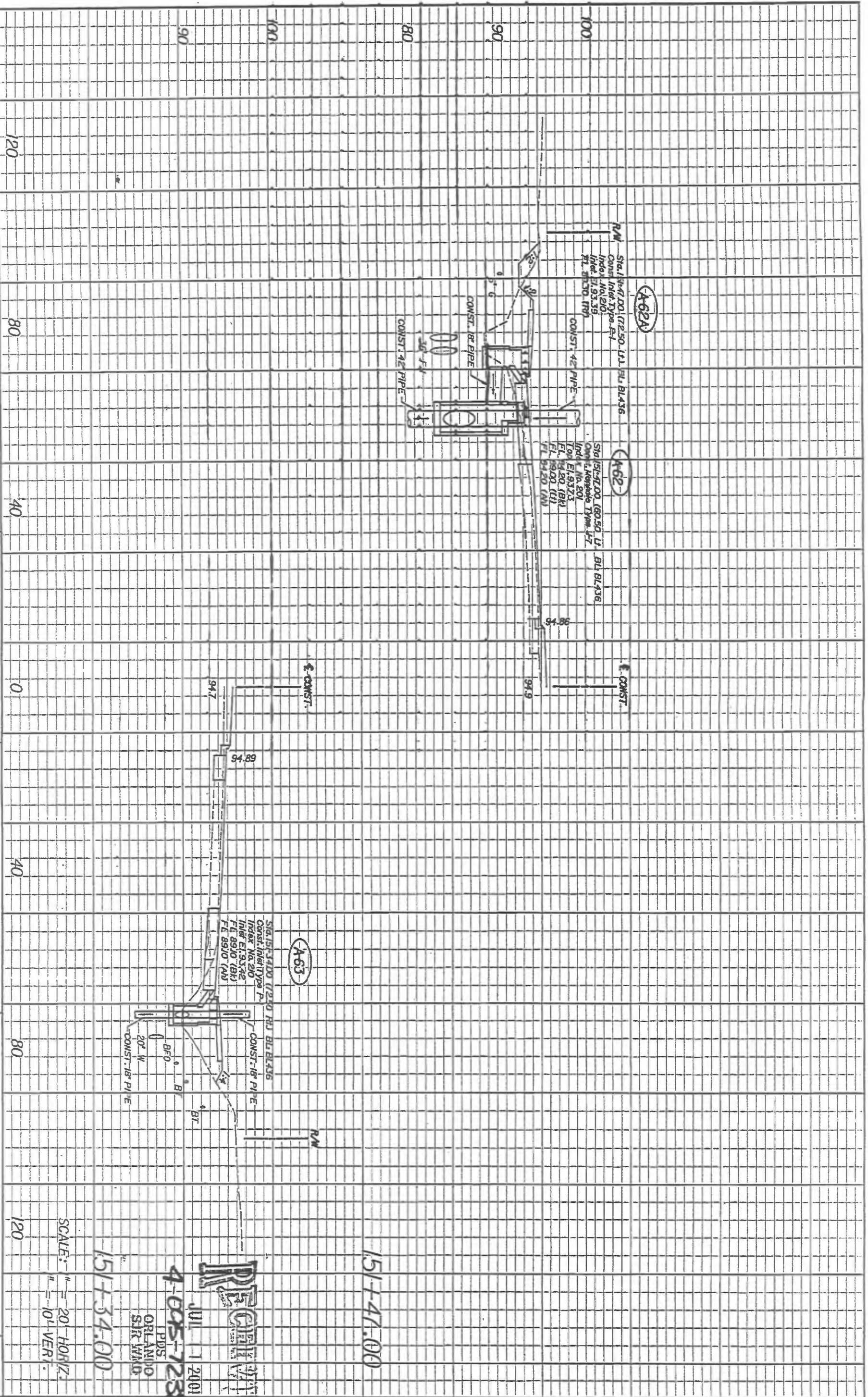
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1" = 10' VERT.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Carter Burgess		STATE OF FLORIDA	
100 LEGION PLACE, SUITE 400 ORLANDO, FLORIDA 32801 (407) 514-4000 REGISTRATION NO. EB-0005300		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR 436	ORANGE	239454-2-52-01	

DRAINAGE STRUCTURES	SR 436
SHEET NO.	171

06/27/10 RNS:AR 3:0000239454239454239454239454



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Carter Burgess
 1000 LEGION PLACE, SUITE 400
 ORLANDO, FLORIDA 32801
 (407) 514-1400
 REGISTRATION NO. EB-0005300

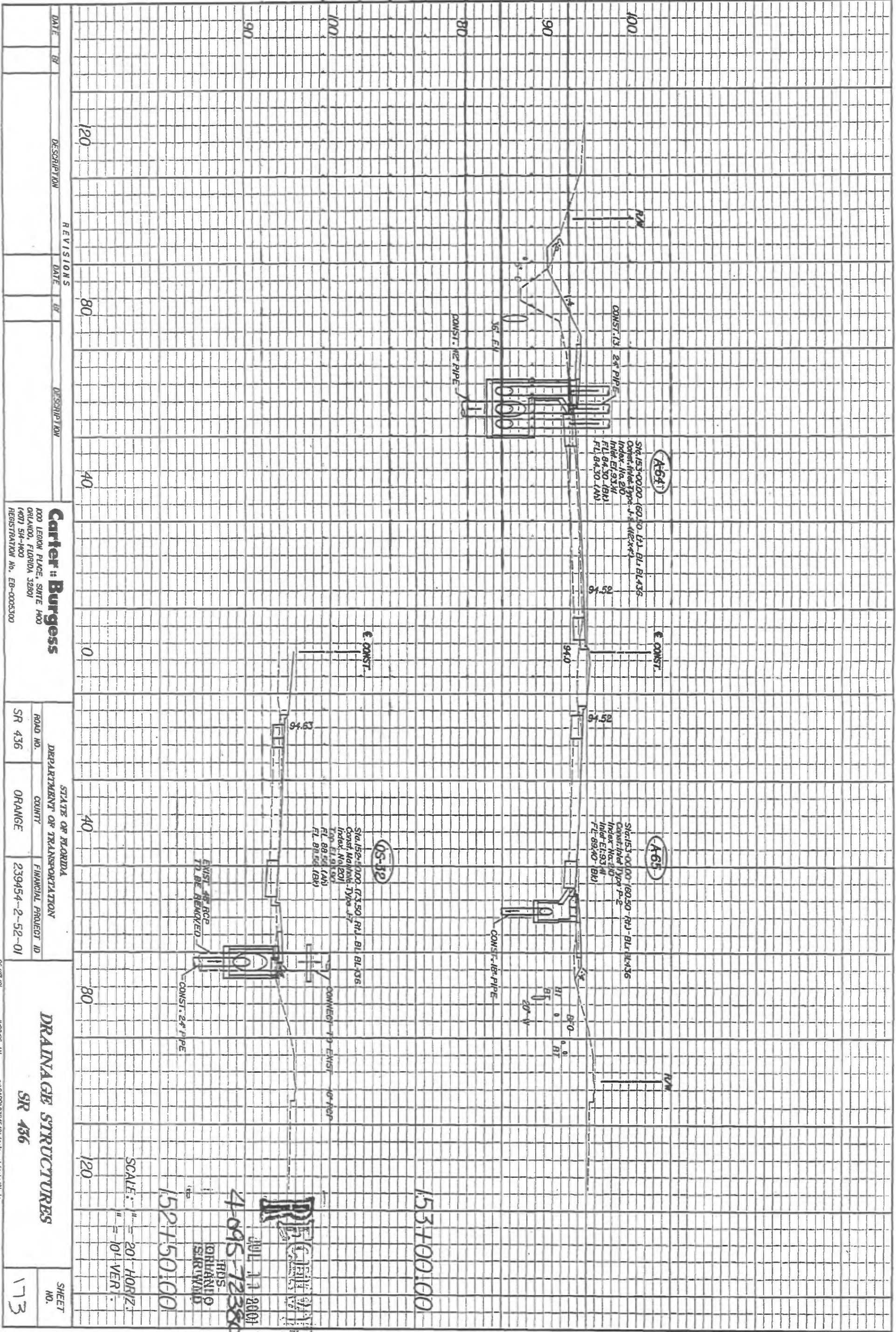
DEPARTMENT OF TRANSPORTATION
 ROAD NO. SR 436
 COUNTY ORANGE
 FINANCIAL PROJECT ID 239454-2-52-01

STATE OF FLORIDA
 DRAINAGE STRUCTURES
 SR 436
 SHEET NO. 172

SCALE: " = 20' HORIZ.
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Carter & Burgess
 100 LEGION PLACE, SUITE 1400
 ORLANDO, FLORIDA 32801
 (407) 516-1400
 REGISTRATION NO. EB-0005300

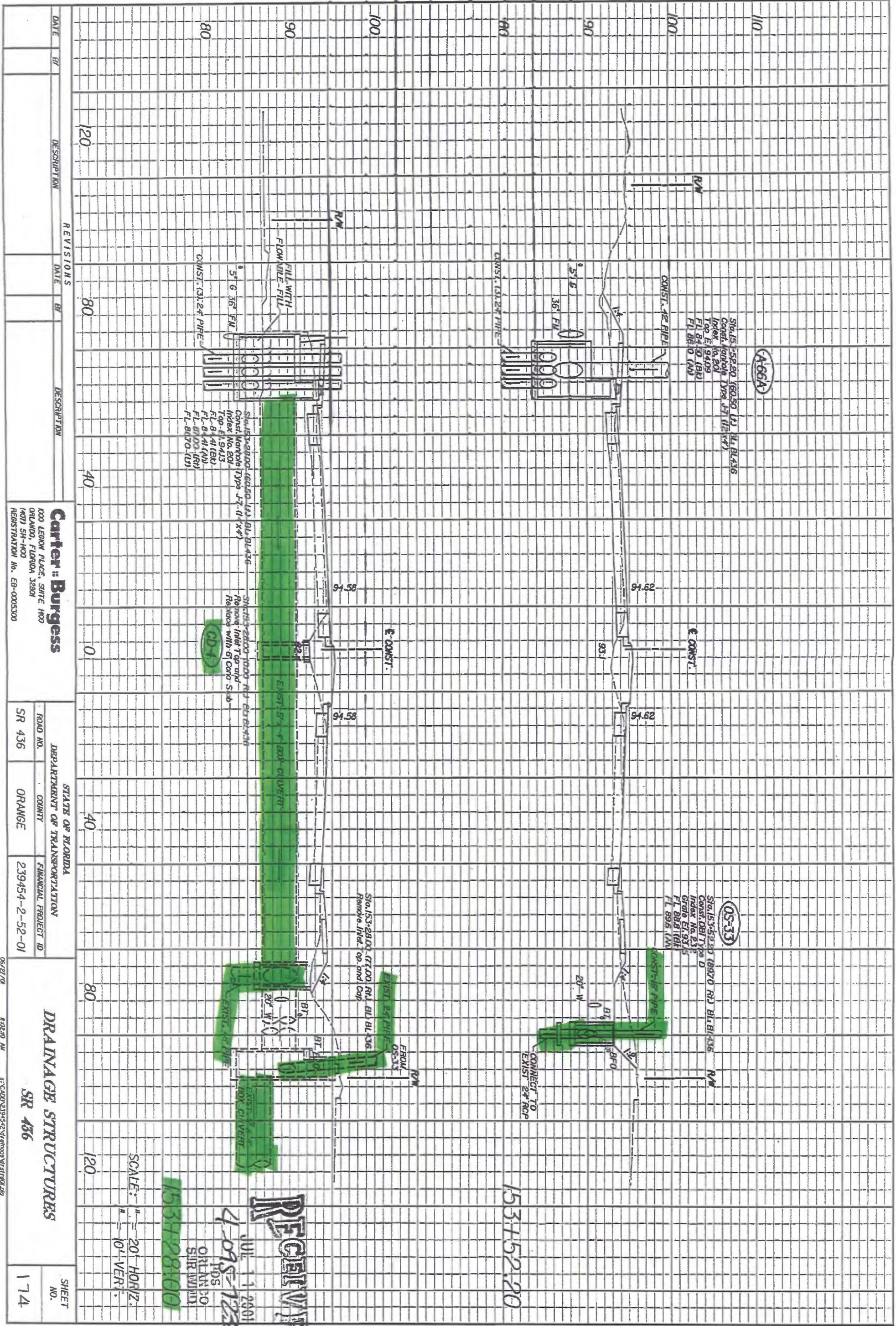
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DEPARTMENT OF TRANSPORTATION	COUNTY	FINANCIAL PROJECT ID
ROAD NO. SR 436	ORANGE	23945-2-52-01

DRAINAGE STRUCTURES
 SR 436
 SHEET NO. 173

SCALE: " = 20' HORZ.
 " = 10' VERT.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Carter Burgess
 100 LEGION PLACE, SUITE 1100
 ORLANDO, FLORIDA 32801
 (407) 514-1100
 REGISTRATION No. EB-0005300

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 SR 436 ORANGE 239454-2-52-01

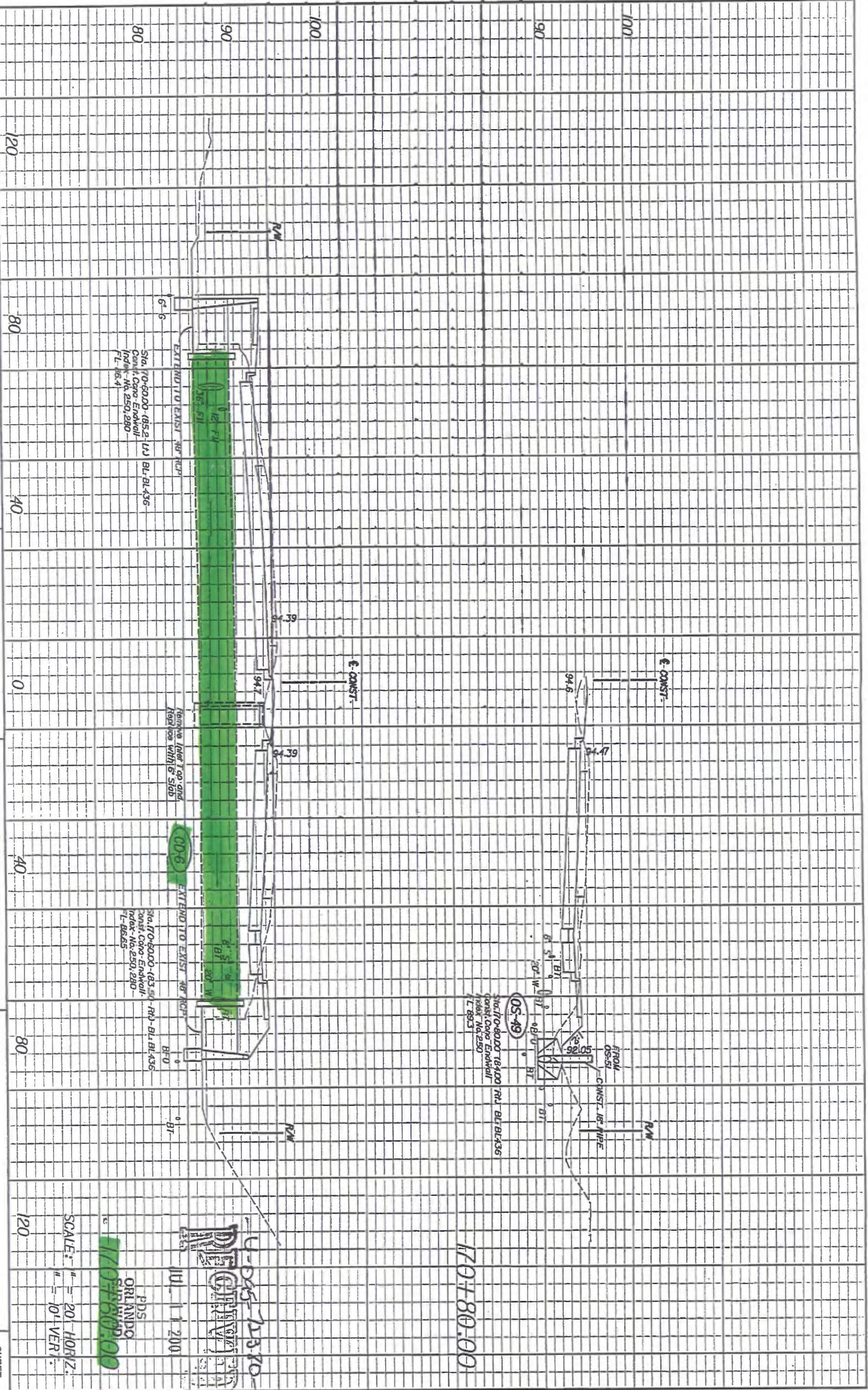
DRAINAGE STRUCTURES
 SR 436

SHEET NO. 174

SCALE: 1" = 20' HORIZ.
 1" = 10' VERT.

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 JUL 11 2001
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 ORLANDO
 SURVEILLANT

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Carter Burgess		STATE OF FLORIDA	
100 LEGNOR PLACE, SUITE 400 ORLANDO, FLORIDA 32801 (407) 518-1400 REGISTRATION NO. EB-0005300		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR 436	ORANGE	239454-2-52-01	

DRAINAGE STRUCTURES		SHEET NO.
SR 436		191

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 Const. Corp. Endwall
 Index No. 250, 280
 FL-16.4

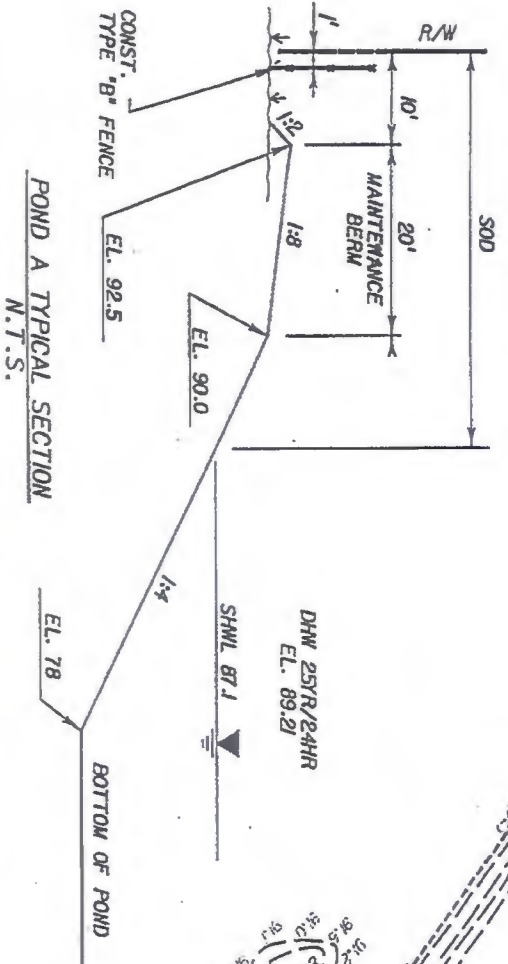
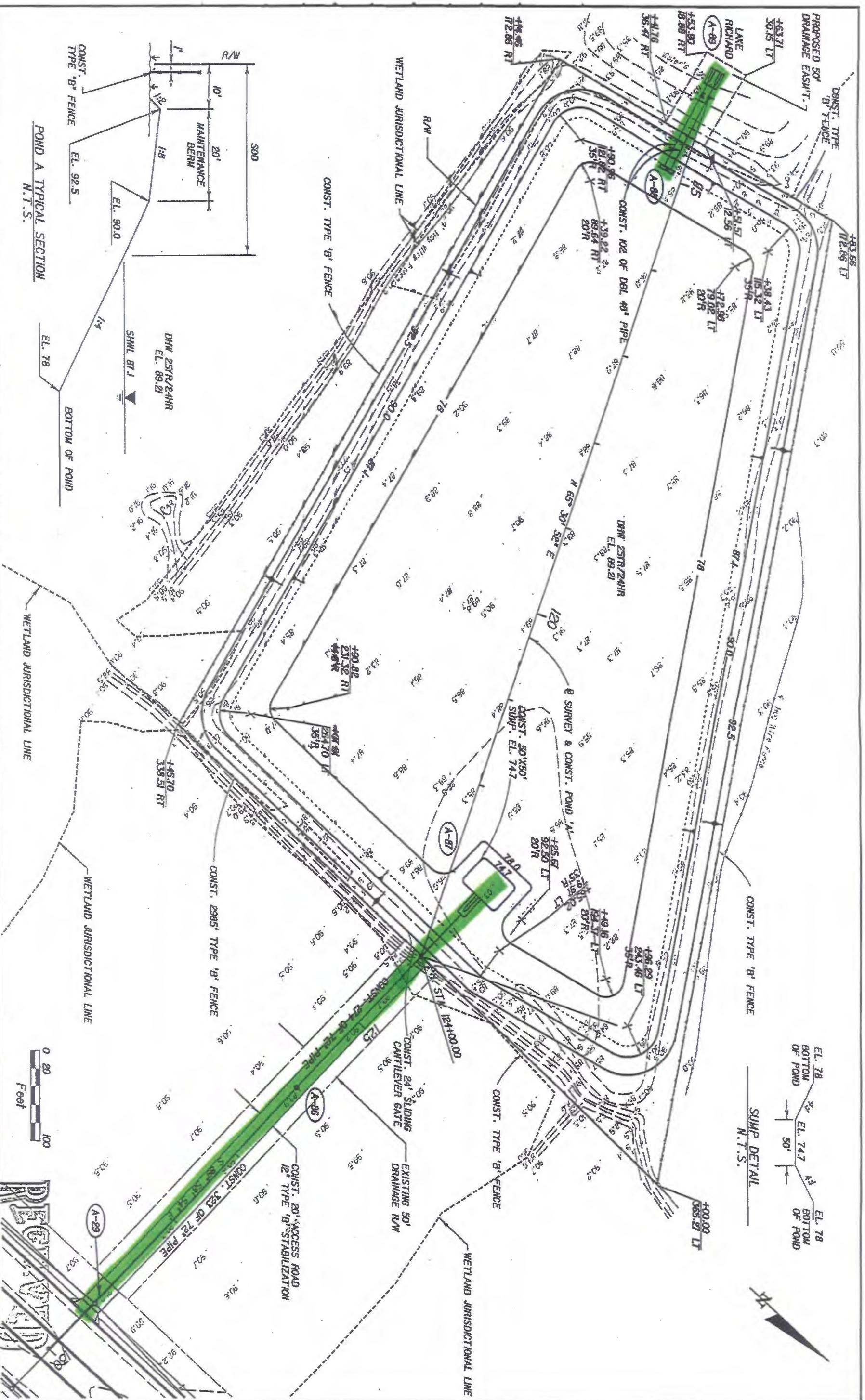
Reinforce later 1' 90" and
 keep 100' within 6' Slab

EXTEND TO EXIST. 48' RCP
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 Const. Corp. Endwall
 Index No. 250, 280
 FL-86.65

Sta. 70+80.00 (84.00' RT) BL-BL436
 Const. Corp. Endwall
 Index No. 250
 FL-89.53

SCALE: 1" = 20' HORIZ.
 1" = 10' VERT.

PROJECT
 4-26-25-2370-1
 PDS
 ORLANDO
 SUPERVISOR
 170+80.00



DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

Carter Burgess
 400 LEGION PLACE, SUITE 400
 ORLANDO, FLORIDA 32801
 (407) 54-1400
 REGISTRATION No. EB-0005300

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. SR 436
 COUNTY ORANGE
 FINANCIAL PROJECT ID 239454-2-52-01

POND A DETAIL SHEET
 JUL 11 2001
 4.845-12188-1
 ORLANDO
 SIB WARD
 SHEET NO. 275

DATE	BY	DESCRIPTION

Revisions

DATE	BY	DESCRIPTION

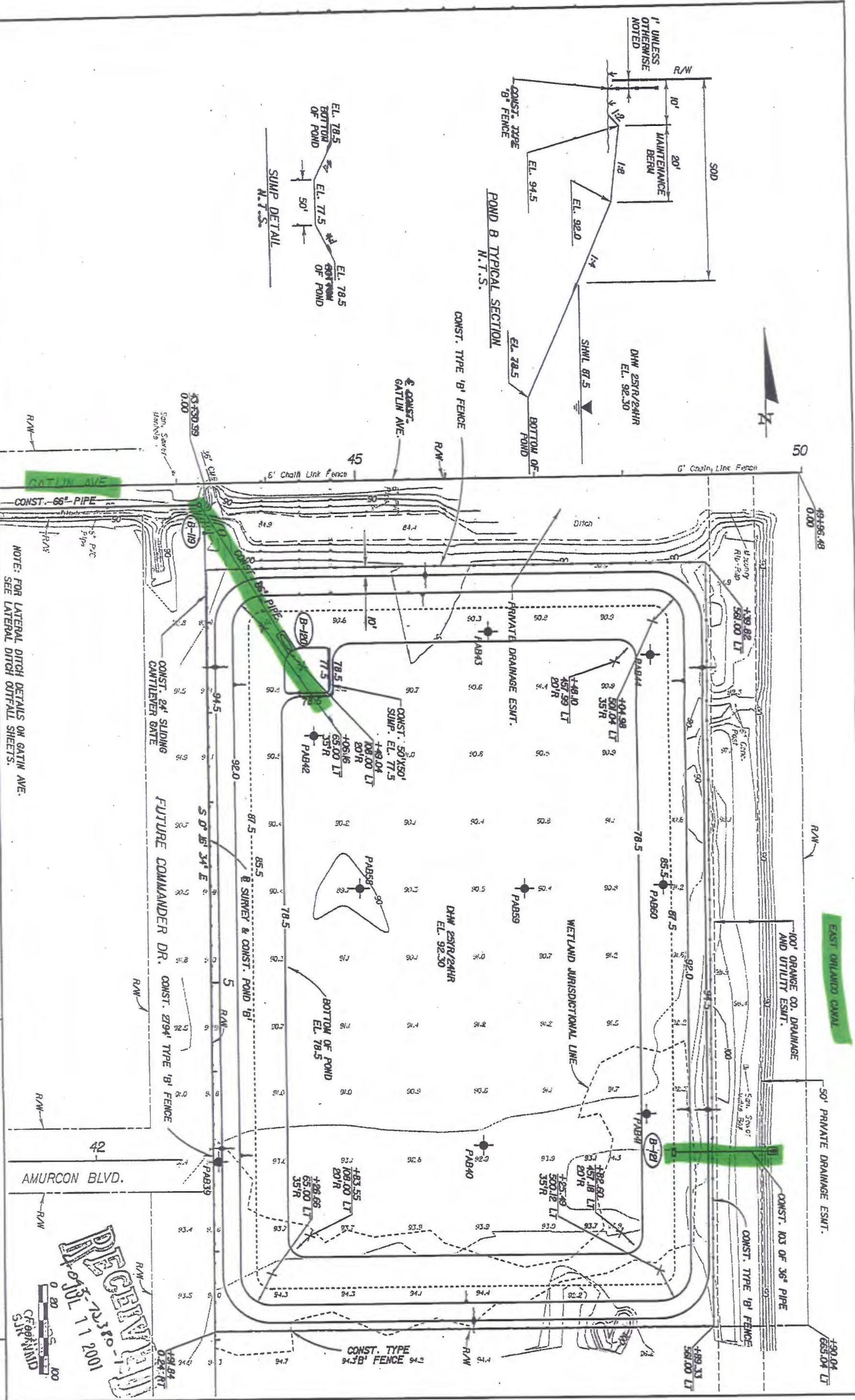
Project Information

DEPARTMENT OF TRANSPORTATION
 COUNTY ORANGE
 ROAD NO. SR 436
 FINANCIAL PROJECT ID 239454-2-52-01

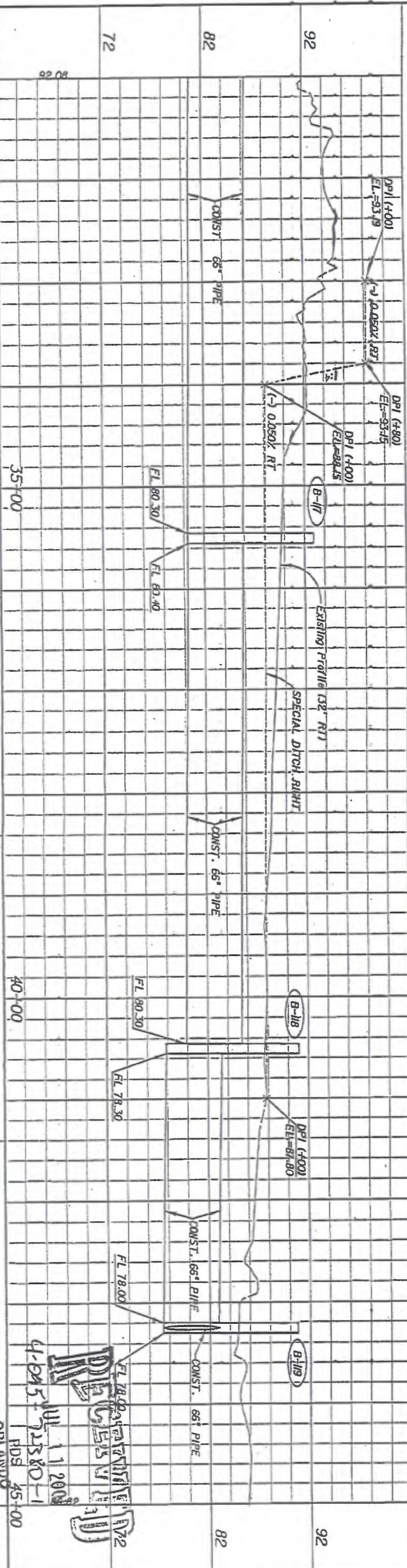
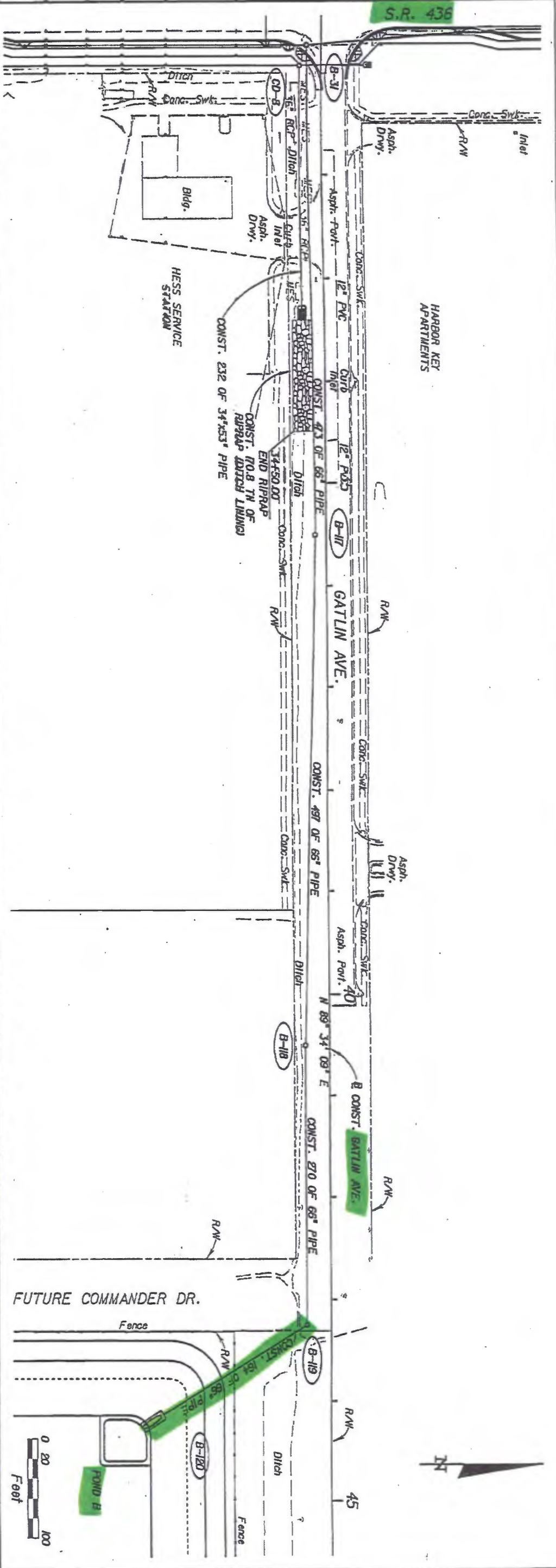
STATE OF FLORIDA
 CARTER H. BURGESS
 200 LEGION PLACE, SUITE 400
 ORLANDO, FLORIDA 32801
 (407) 54-1400
 REGISTRATION NO. EB-0005300

DATE: 07/01/08
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SHEET NO. 276



S.R. 436



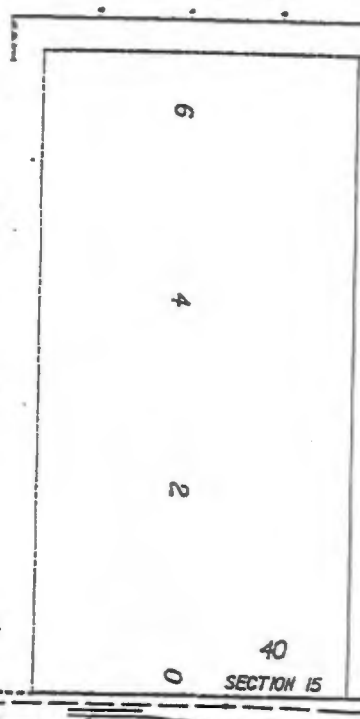
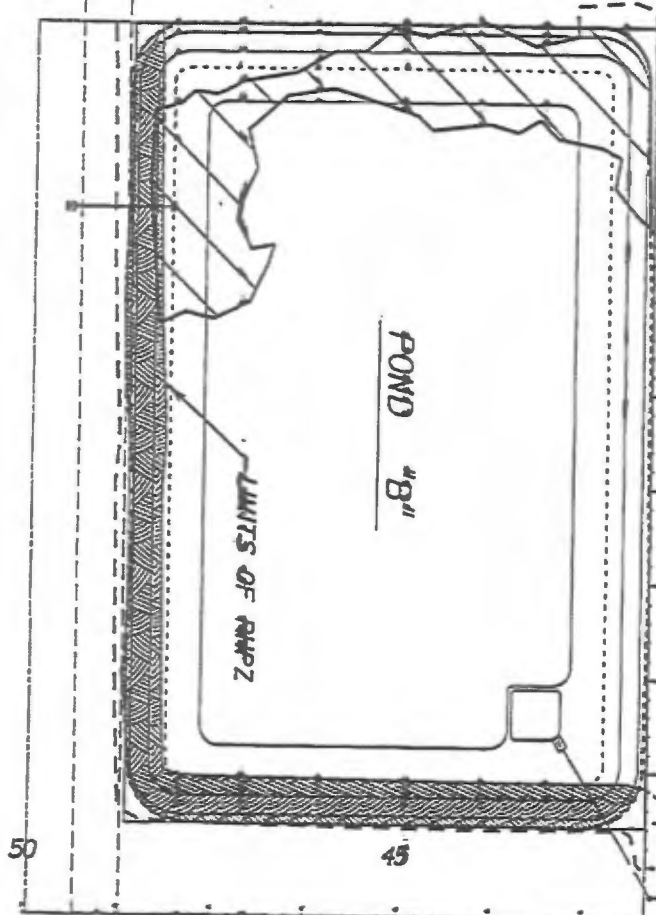
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BY	DESCRIPTION	DATE	BY

DATE	DESCRIPTION	DATE	BY

Carter & Burgess 1000 LEGION PLACE, SUITE 1400 ORLANDO, FLORIDA 32801 (407) 54-1400 REGISTRATION NO. EB-0005300		DEPARTMENT OF TRANSPORTATION ROAD NO. SR 436 COUNTY ORANGE FINANCIAL PROJECT ID 239454-2-52-01	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID 239454-2-52-01
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ORLANDO RDS 45+00 4-24-11 2380-1 11-2008	SHEET NO. 210
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 SEP 10 2001
 PDS
 ORLANDO
 AIR MAIL



GATLIN AVE. SECTION 10



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- LEGEND**
- WETLAND & SURFACE WATER LIMITS
 - LIMITS OF CONSTRUCTION
 - ▨ WETLAND & SURFACE WATER IMPACTS
 - ▩ RHPZ IMPACTS
 - (X) WETLAND NO. X
 - (SX) SURFACE WATER NO. X
 - [X] PROPERTY OWNER NO X.

PROJECT DESCRIPTION: SR 436

TWP: 23 S & 22 S RRG: 30 E

SECS: 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33, & 34

FLORIDA DEPARTMENT OF TRANSPORTATION

NAME: _____

SIGNATURE _____

CERTIFICATE NO. _____

DATE: _____

FINANCIAL PROJECT NO. 239454-2-52-01

COUNTY: ORANGE

DER	CG	SHEET 19 OF 34
DOE	WIND	DATE 7/6/01