

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

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

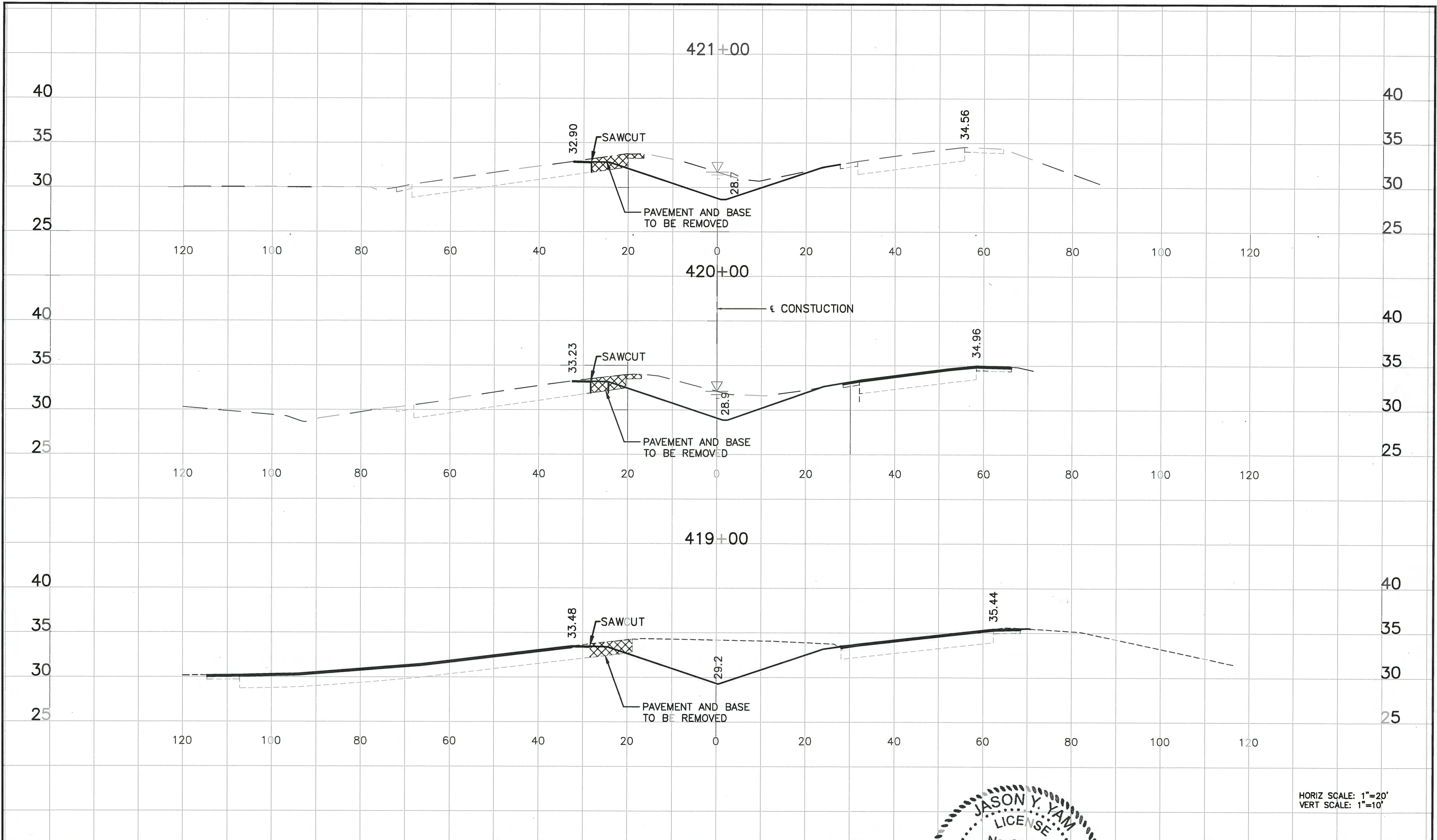
**44TH AVENUE EAST
ROADWAY EXTENSION**

JASON Y. YAM
60 LICENSE
No. 62449
STATE OF FLORIDA
PROFESSIONAL ENGINEER

**CROSS SECTIONS
US 301**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 81

FILE: J:\00193\00193001_18\ACAD\dwg\X18300118-1.dwg LAST SAVED: Tue, 06/16/15-1:17p PLOTTED: Tue, 06/18/15-5:27p BY: John Hutchison



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MANATEE COUNTY

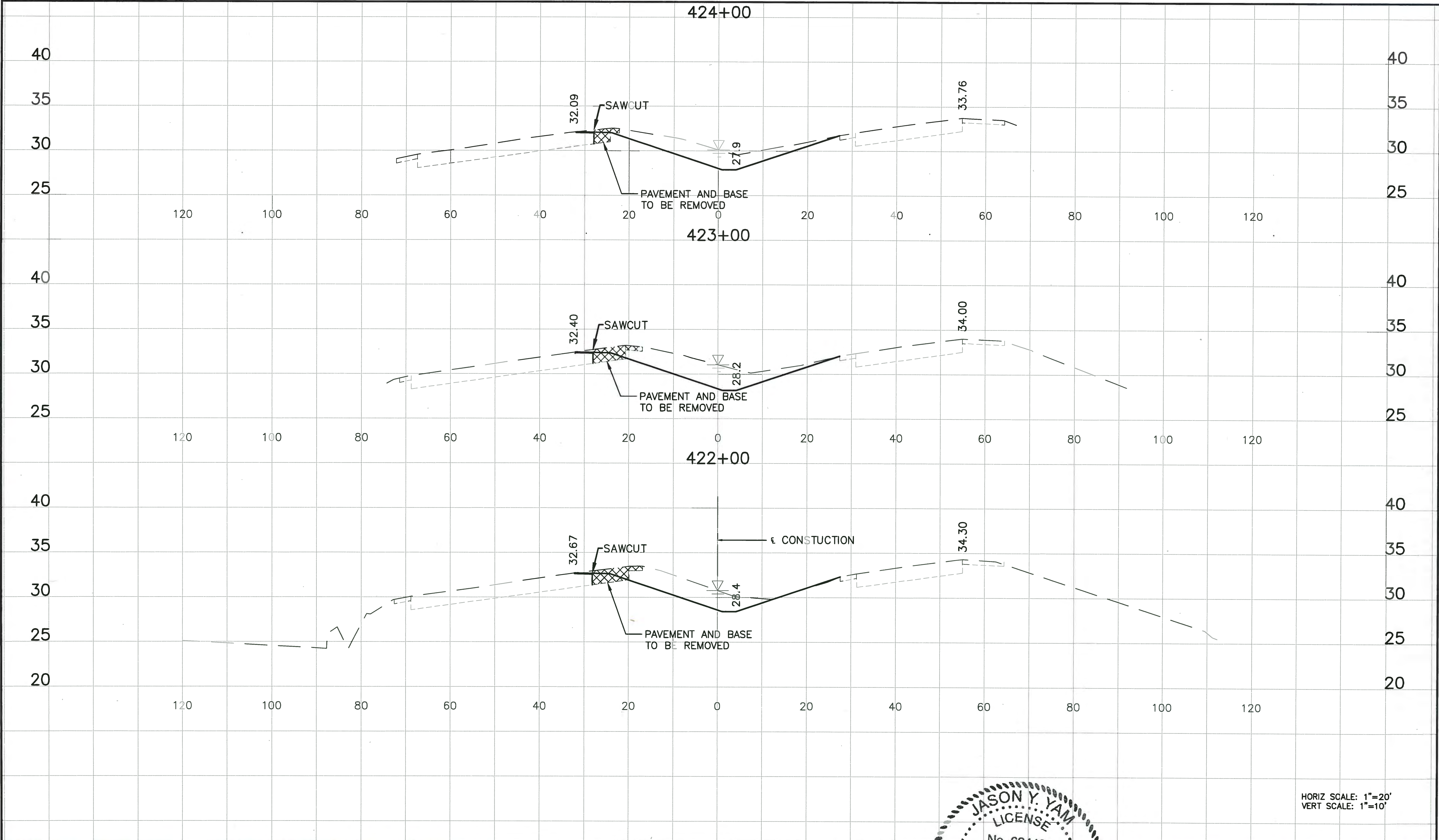
**44TH AVENUE EAST
ROADWAY EXTENSION**

DESIGNED: JCC
DRAWN: JCC
APPROVED: *[Signature]*
JASON Y. YAM
 LICENSE
 No. 62449
 PROFESSIONAL ENGINEER

**CROSS SECTIONS
US 301**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 82

FILE: J:\00193\00193001-18\ACAD\dwg\18\00193001-18-1.dwg LAST SAVED: Tue, 06/16/15-1:17p PLOTTED: Tue, 06/16/15-5:27p BY: John Hutchison



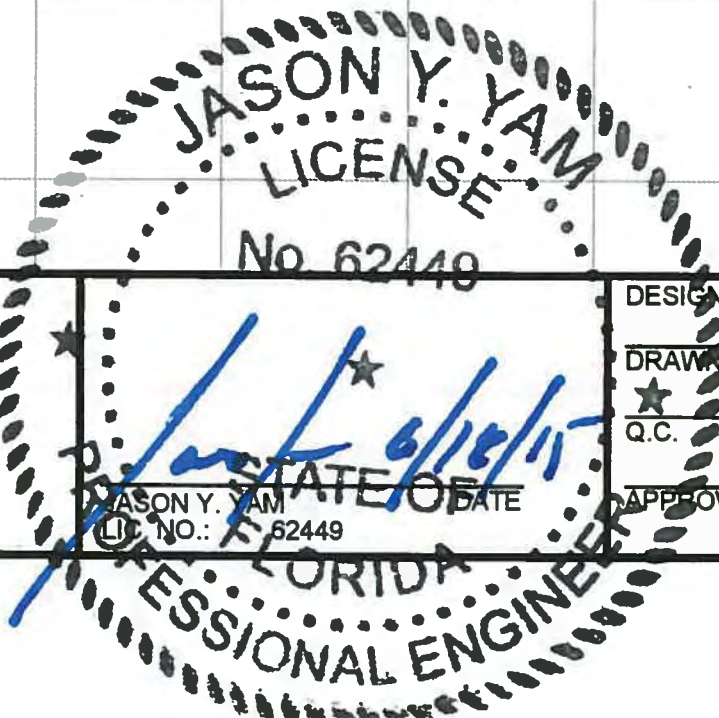
HORIZ SCALE: 1"=20'
 VERT SCALE: 1"=10'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
 ROADWAY EXTENSION**

Cardno
 Shaping the Future
 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
 33759 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29815

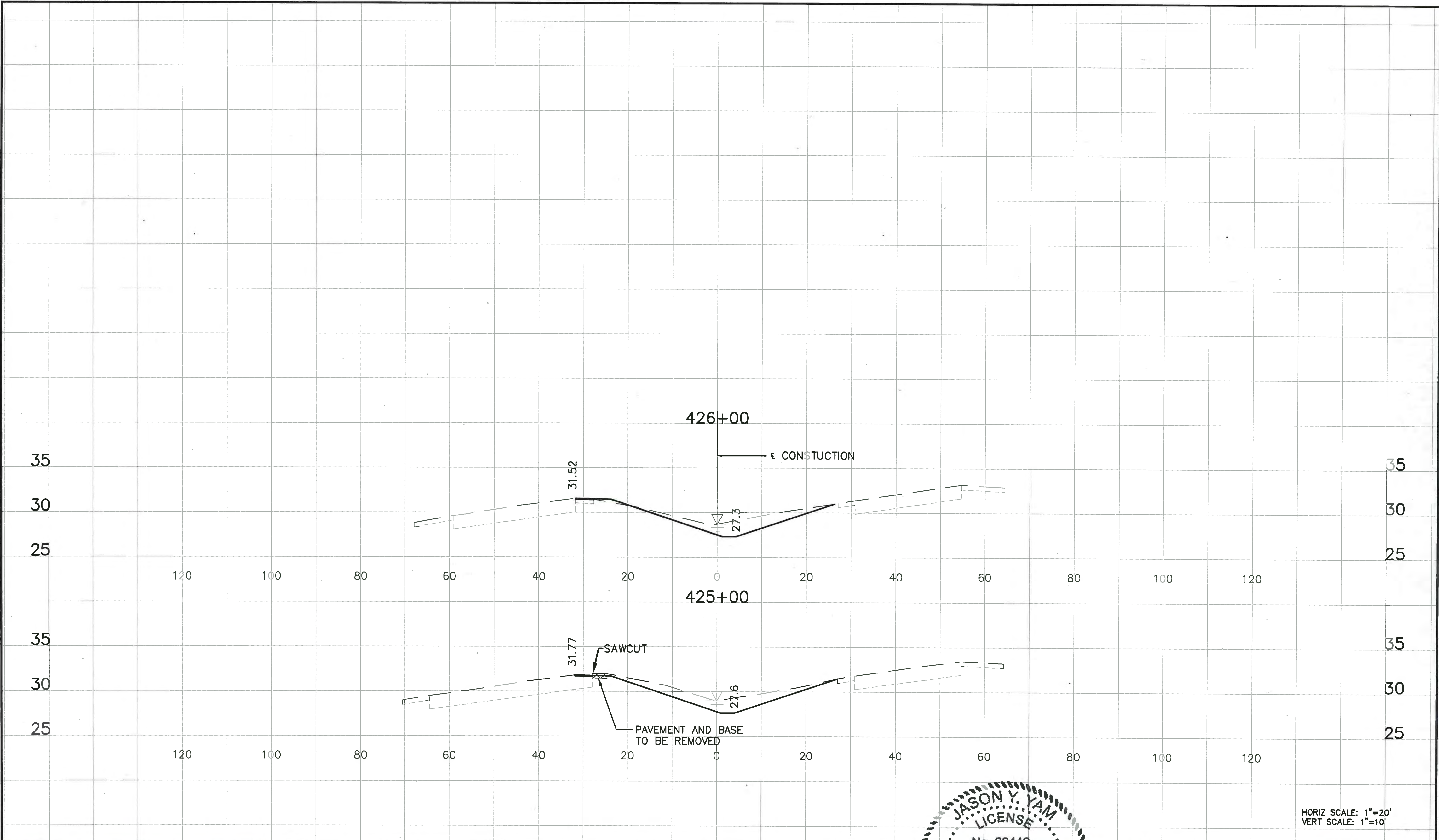


DESIGNED JCC
 DRAWN JCC
 Q.C.
 APPROVED

**CROSS SECTIONS
 US 301**

PROJECT NO:
 00193-001-18
 DATE:
 6-17-2015
 SHEET NO:
 83

FILE: J:\0019300193001\BACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15-1:17p PLOTTED: Tue, 06/16/15-5:27p BY: John Hutchison



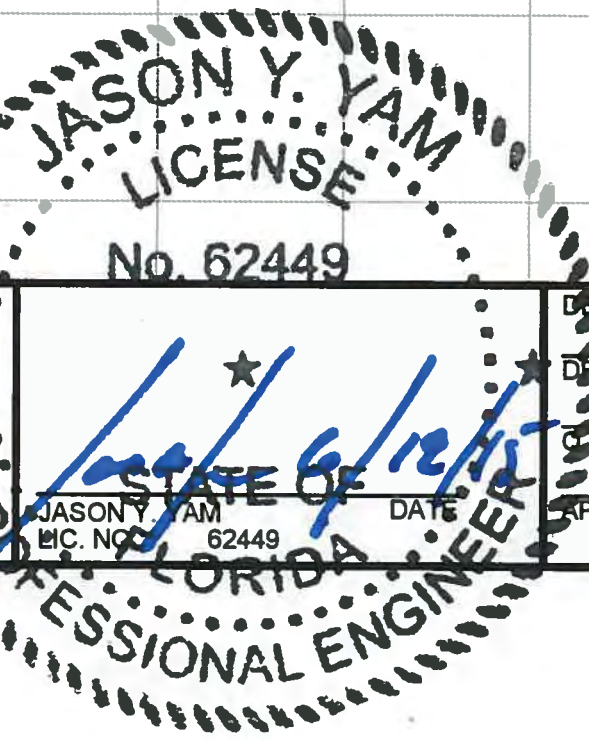
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=10'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
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380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33769 TEL: (727) 531-3505 (800) 861-8314
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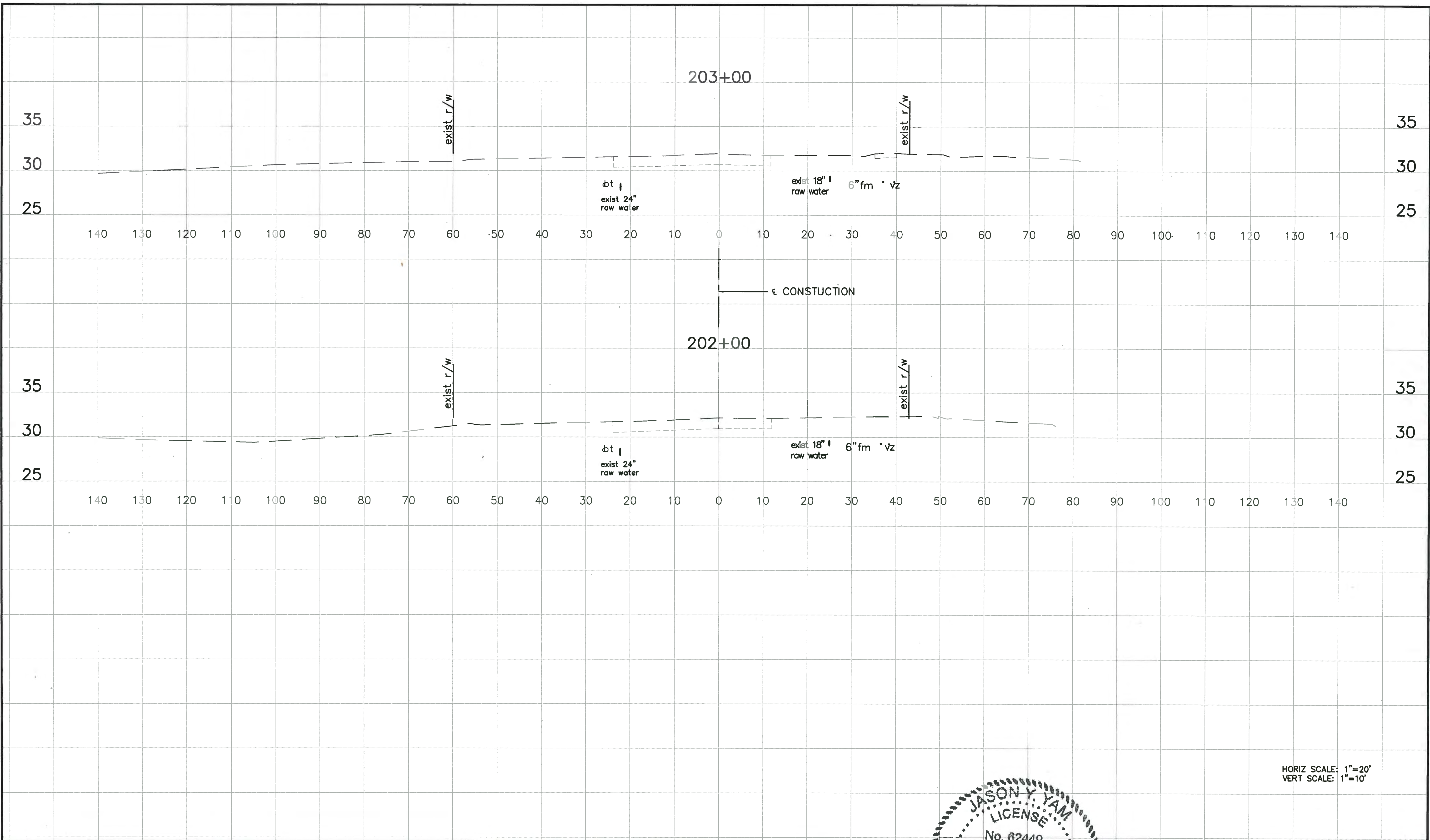


DESIGNED	JCC
DRAWN	JCC
CHECKED	
APPROVED	

**CROSS SECTIONS
US 301**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	84

FILE: J:\0193001\93001-18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15 1:17p PLOTTED: Tue, 06/16/15 5:26p BY: John Hutchison



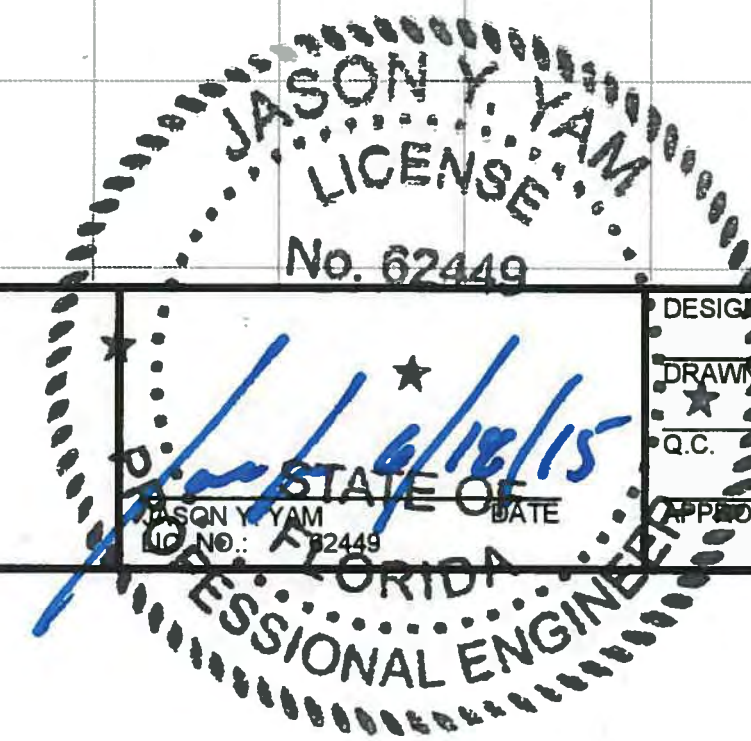
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=10'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

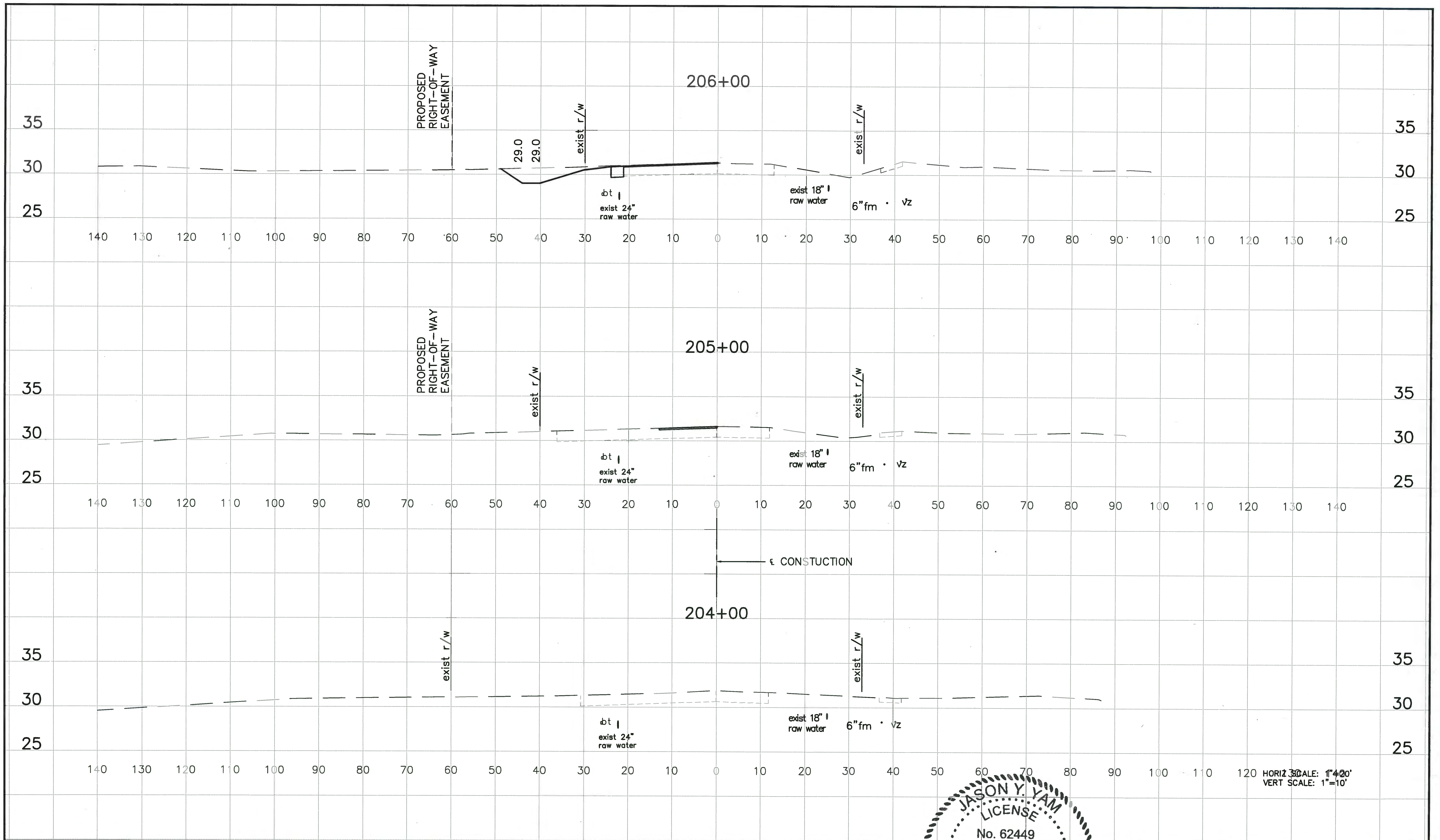
Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 881-8314
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DESIGNED	JCC
DRAWN	JCC
Q.C.	JCC
APPROVED	

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	85



HORIZ SCALE: 1"=40'
VERT SCALE: 1"=10'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

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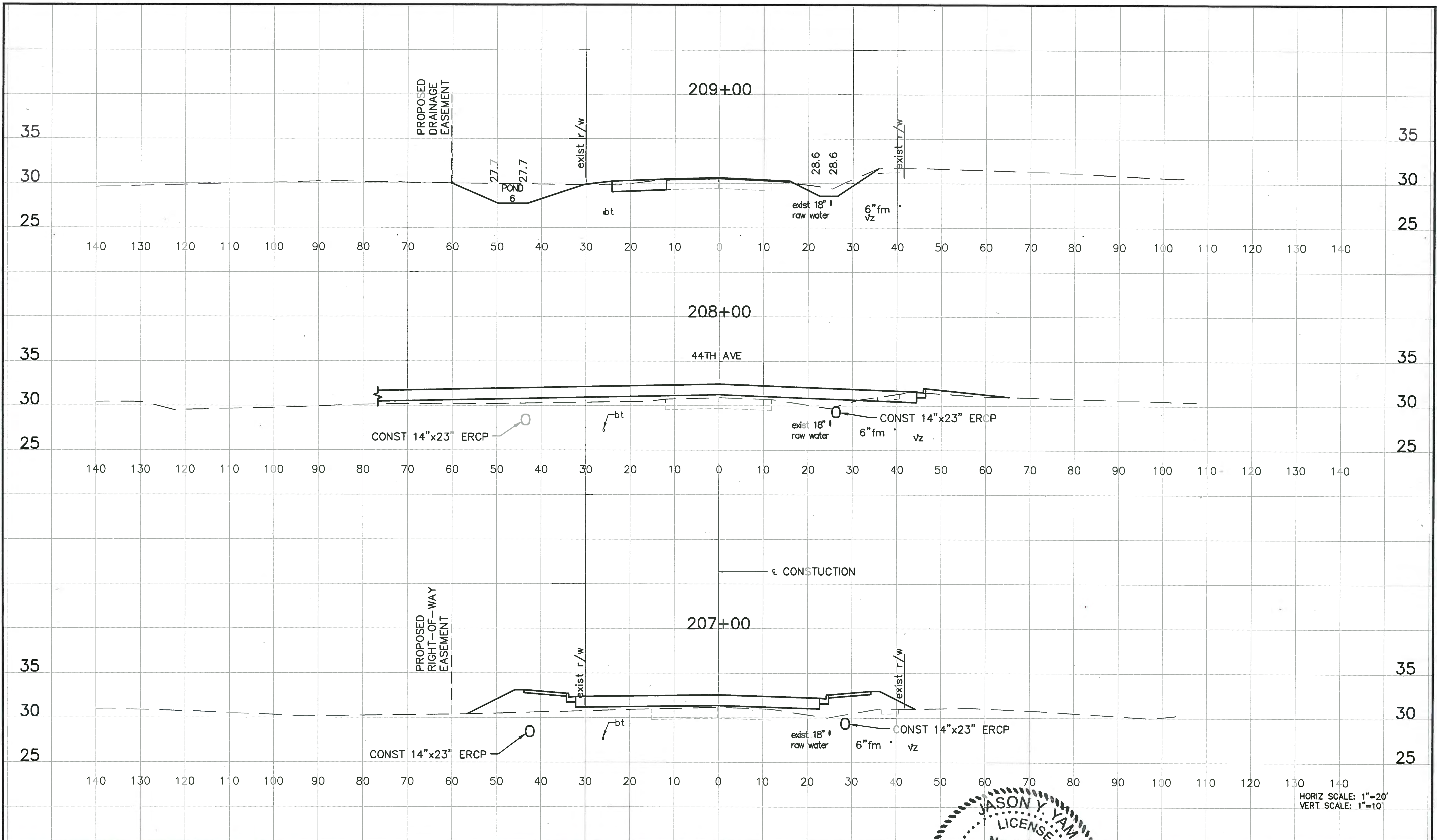
JASON Y. YAM
LICENSE
No. 62449
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DESIGNED	JCC
DRAWN	JCC
CHECKED	JCC
APPROVED	

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	86

FILE: J:\00193\00193001-18\ACAD\dwg\X\19300118-1.dwg LAST SAVED: Tue, 06/16/15 1:17p PLOTTED: Tue, 06/16/15 5:28p BY: John Hutchison



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

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

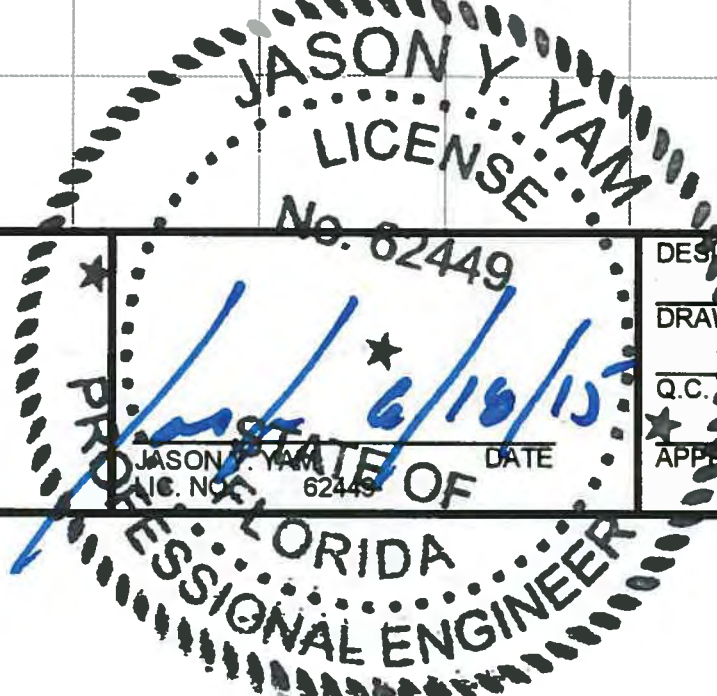
**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

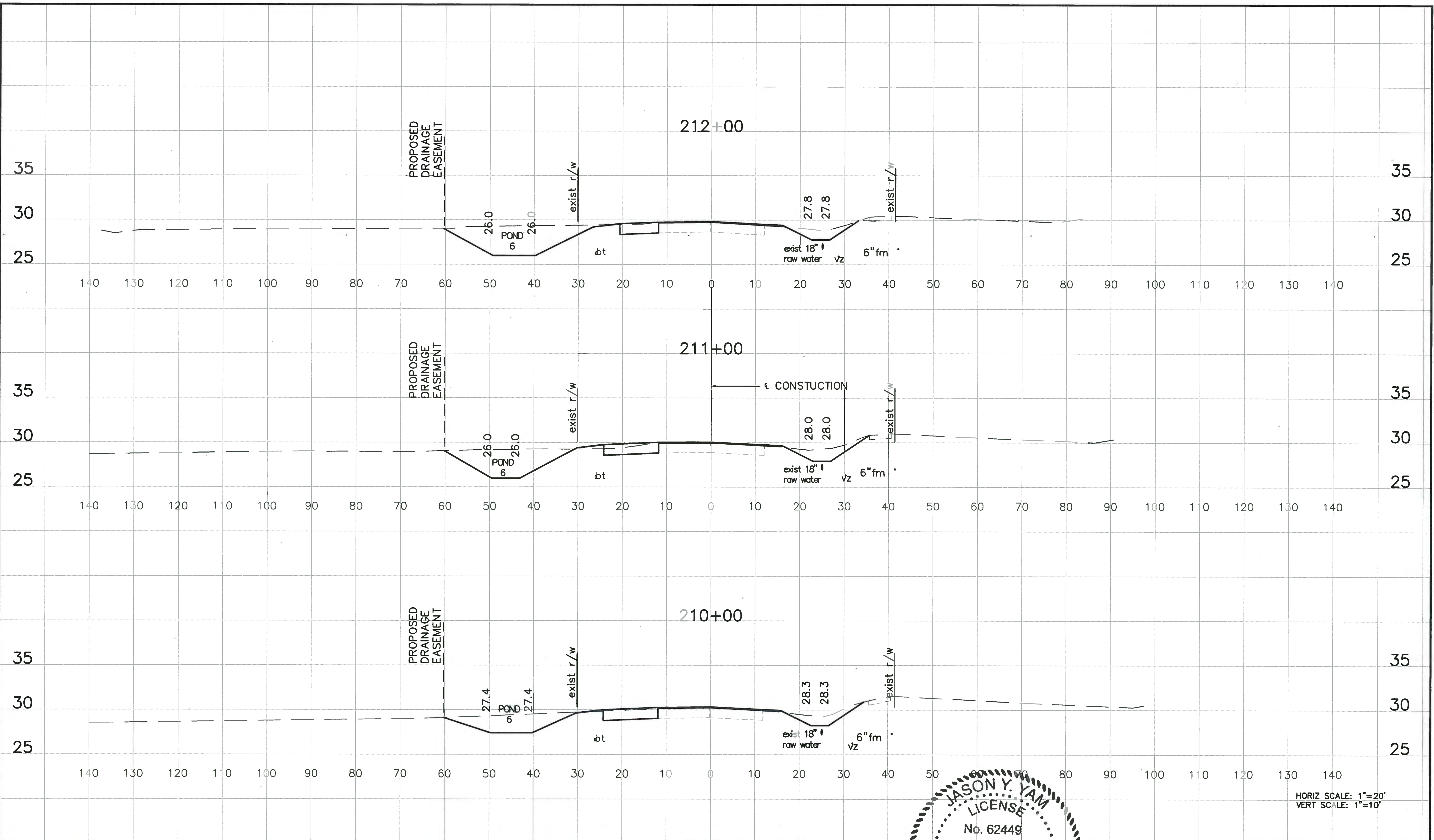
DESIGNED JCC
DRAWN JCC
Q.C.
APPROVED

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
87



FILE: J:\00193\00193001_18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15 11:17p PLOTTED: Tue, 06/16/15 5:28p BY: John Hutchison



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



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

44TH AVENUE EAST ROADWAY EXTENSION

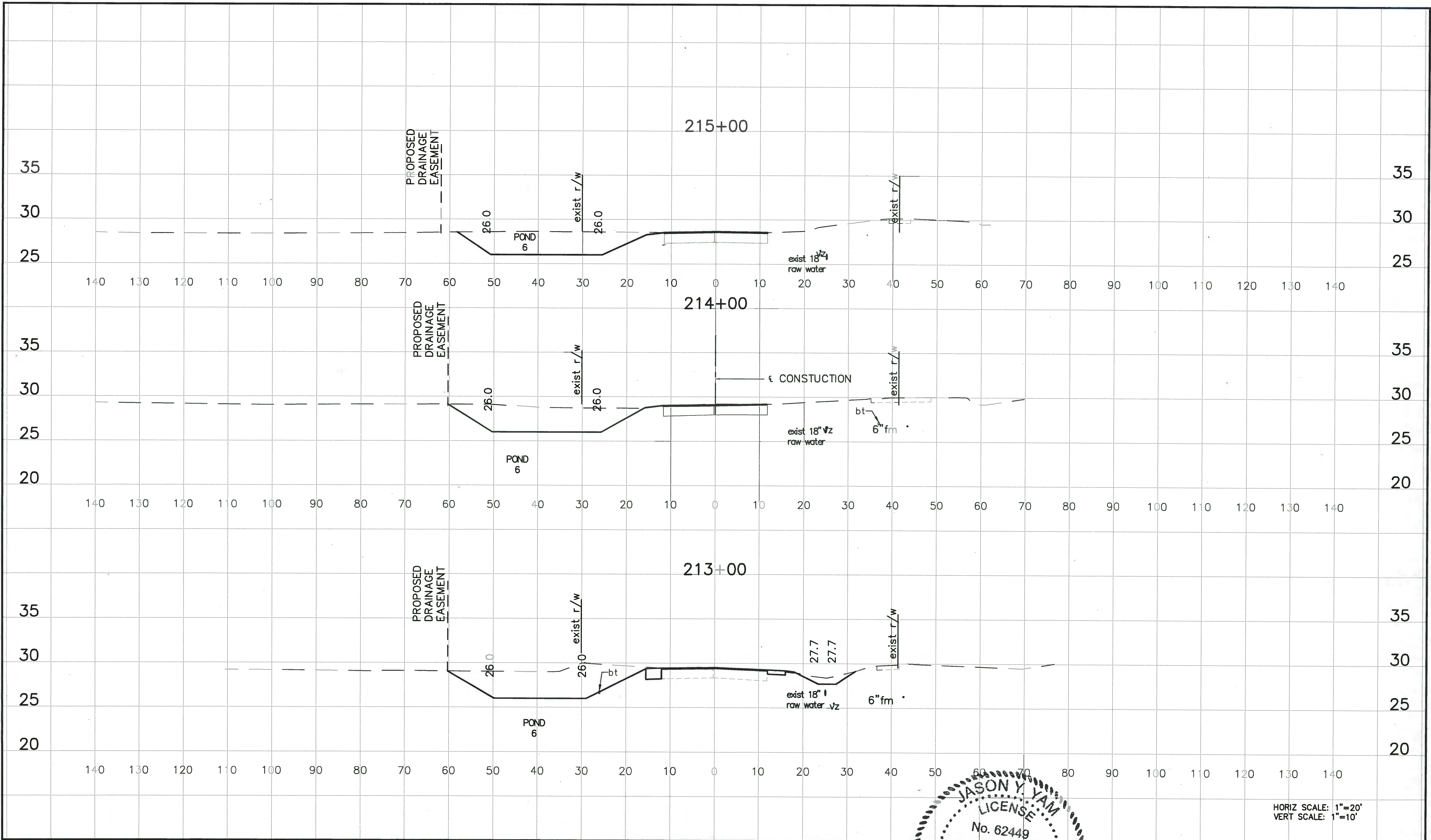
Cardno
 Shaping the Future
 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759
 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29915

DESIGNED	JCC
DRAWN	JCC
CHECKED	JCC
APPROVED	

**CROSS SECTIONS
 30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	88

FILE: J:\00193\00193001_18\ACAD\dwg\18\0019300118-1.dwg LAST SAVED: Tue, 06/16/15-1:17p PLOTTED: Tue, 06/16/15-5:29p BY: John Hutchison



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

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
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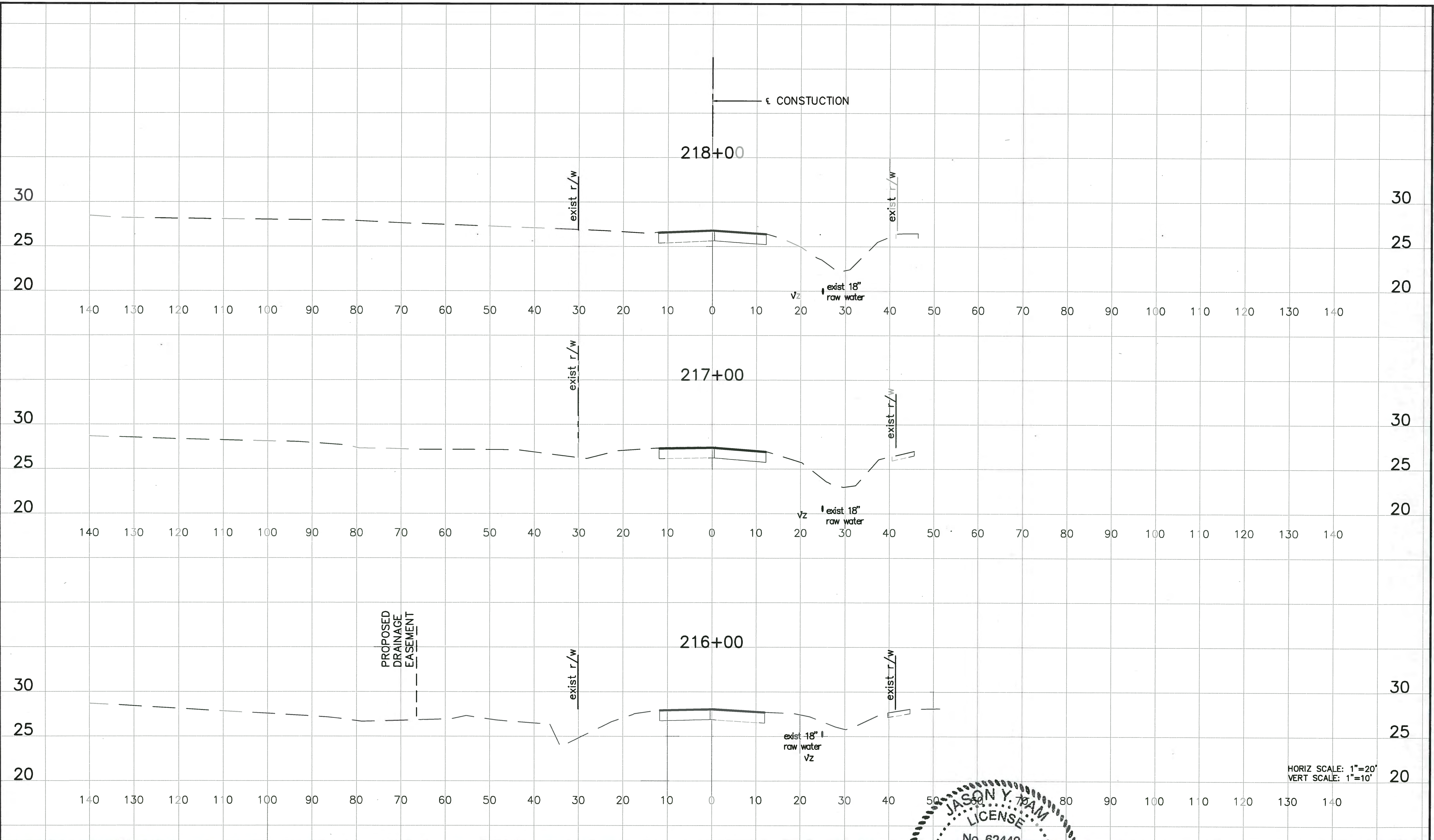
JASON Y. YAM
LICENSE
No. 62449
PROFESSIONAL ENGINEER
STATE OF FLORIDA

DESIGNED	JCC
DRAWN	JCC
CHECKED	
APPROVED	

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	89

FILE: J:\00193\00193001-18\ACAD\dwg\XST19300118-1.dwg LAST SAVED: Tue, 06/16/15-1:17p PLOTTED: Tue, 06/16/15-5:29p BY: John.Hutchison



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

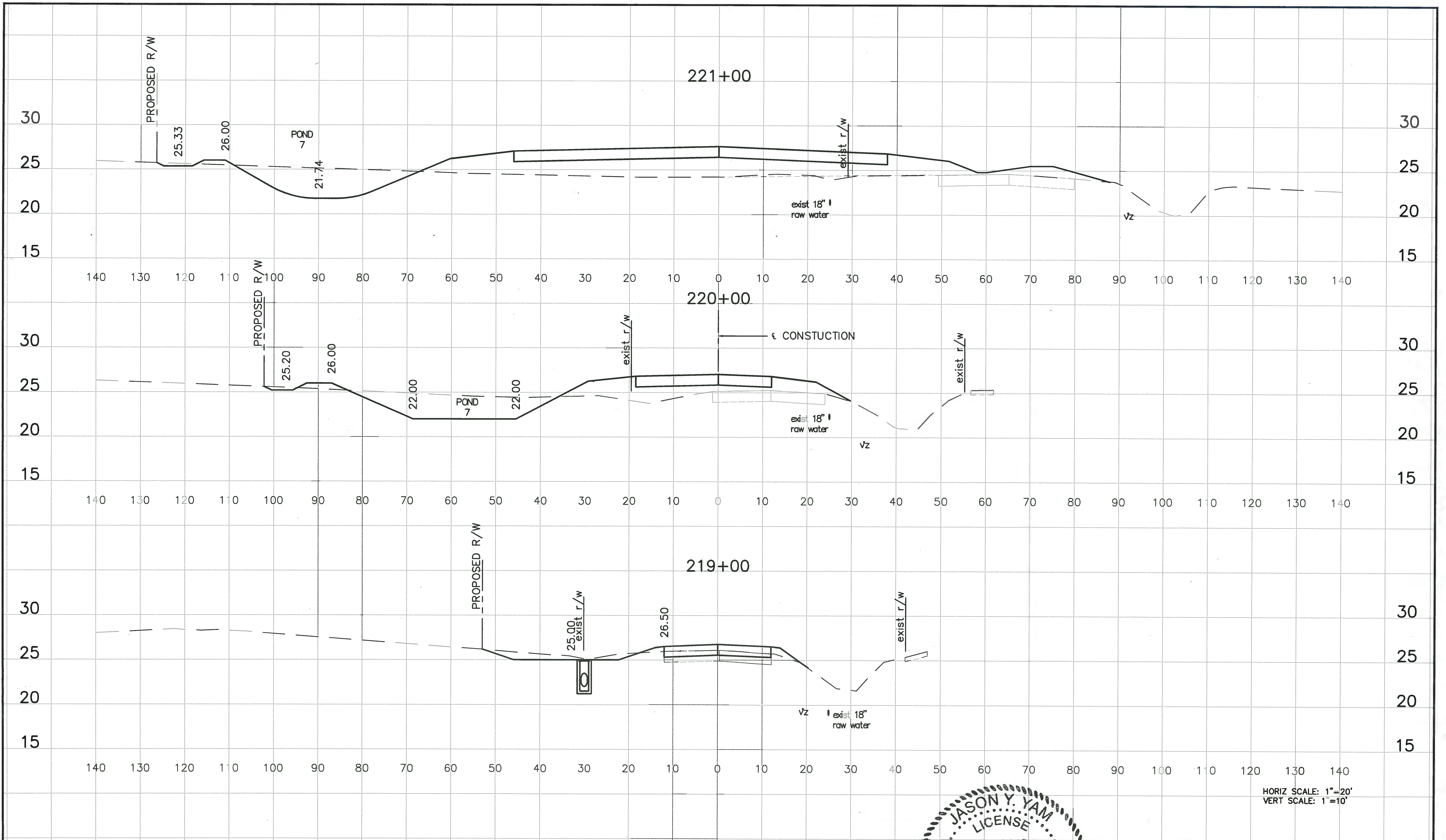
Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

JASON Y. TAM
LICENSE
No. 62449
DATE: 6/18/15
PROFESSIONAL ENGINEER

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
90

FILE: J:\00193\00193001-18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15-11:17p PLOTTED: Tue, 06/16/15-5:29p BY: John Hutchison



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

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

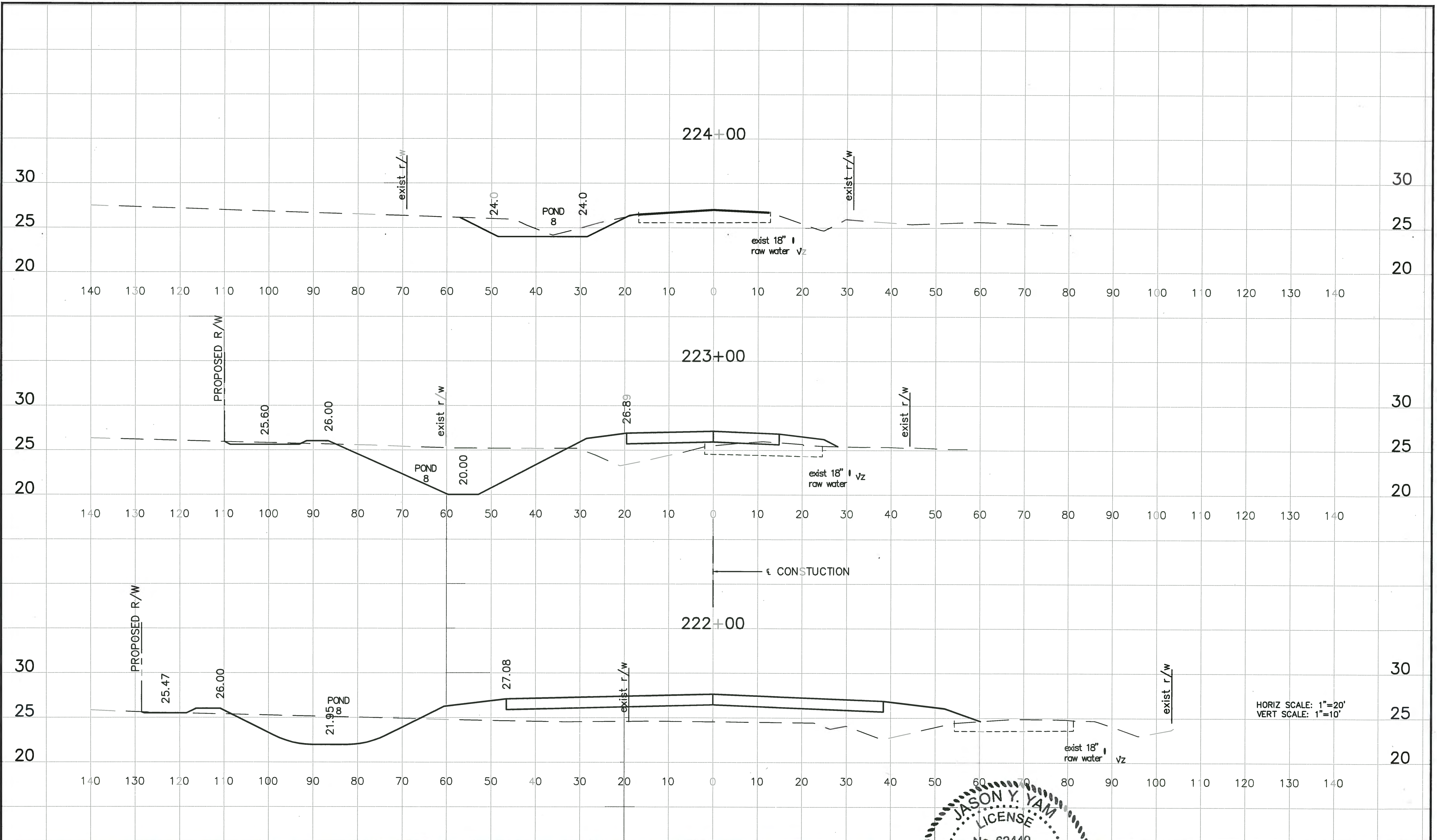
Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29815

JASON Y. YAM
LICENSE
No. 62449
DATE: 6/18/15
PROFESSIONAL ENGINEER
FLORIDA

**CROSS SECTIONS
30TH STREET EAST**

DESIGNED	JCC
DRAWN	JCC
CHECKED	JCC
APPROVED	JCC
PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	91

FILE: J:\00193\00193001-18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/18/15-11:17p PLOTTED: Tue, 06/18/15-5:30p BY: John.Hutchison



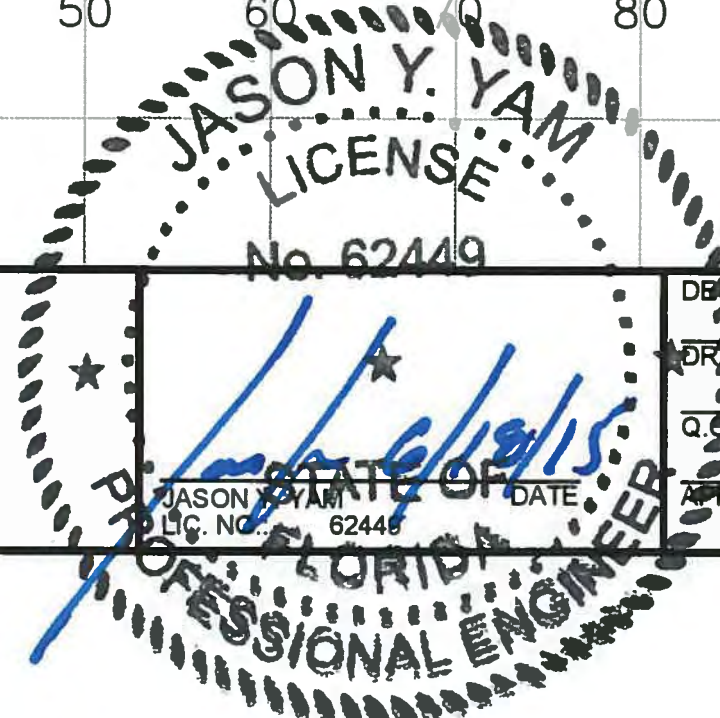
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=10'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
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380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

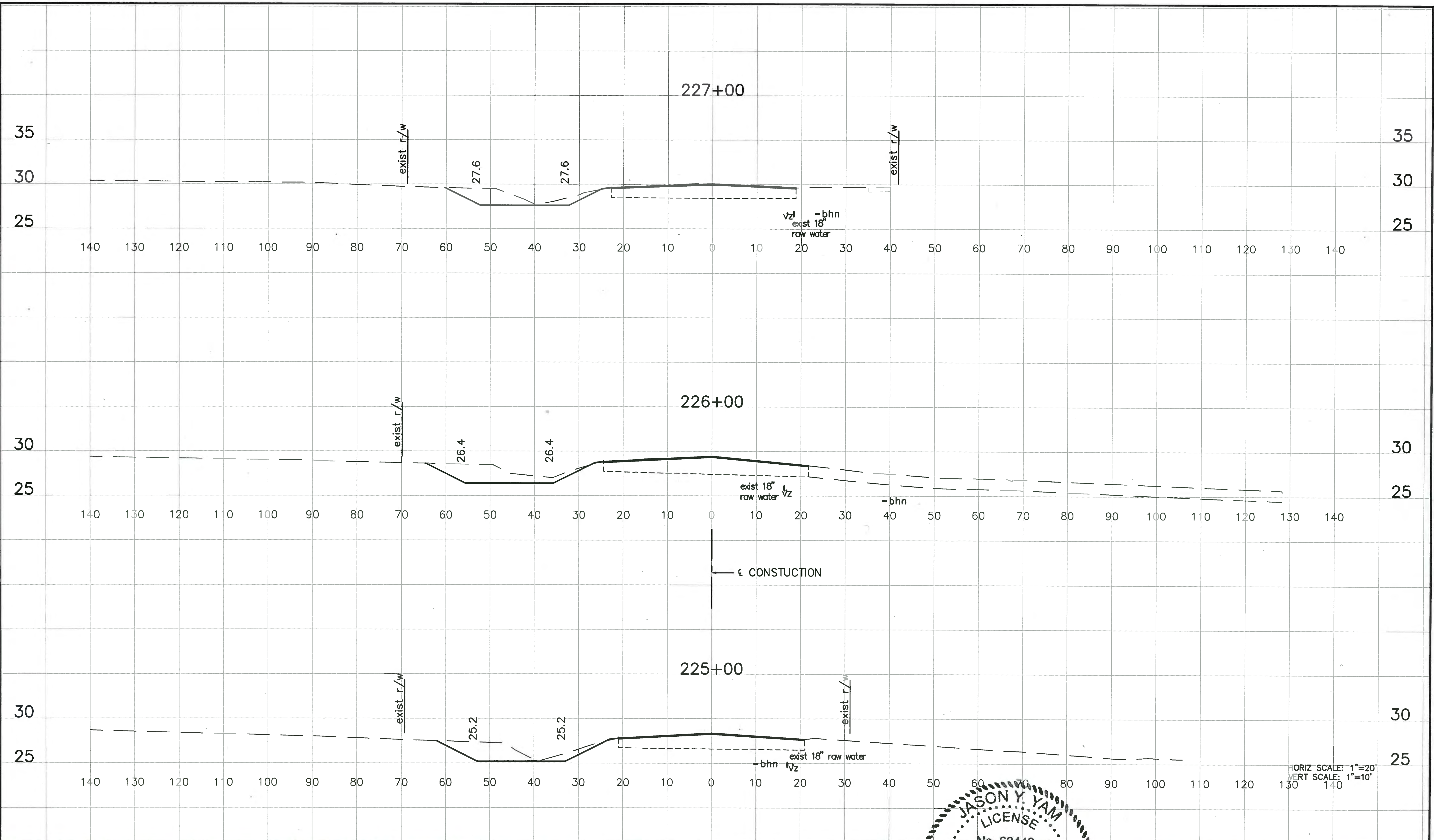


DESIGNED	JCC
DRAWN	JCC
QA	
APPROVED	

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	92

FILE: J:\00193\00193001.18\ACAD\dwg\X18300118-1.dwg LAST SAVED: Tue, 06/16/15 1:17p PLOTTED: Tue, 06/16/15 5:30p BY: John.Hutchison

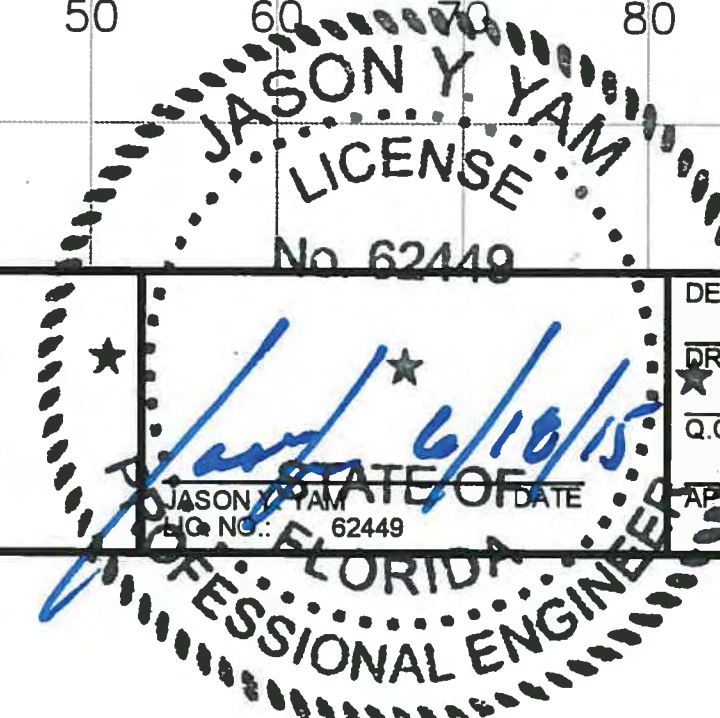


NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
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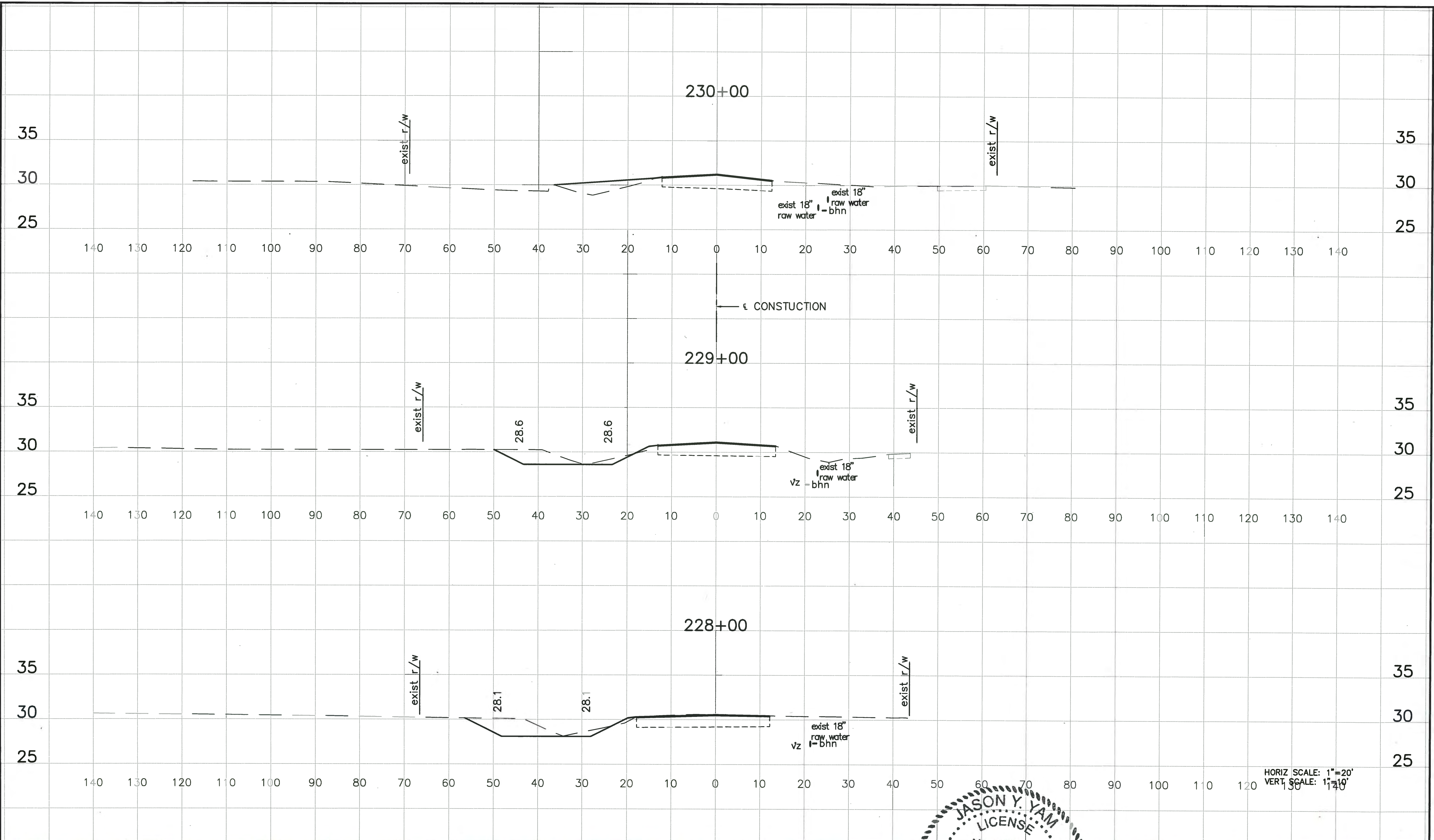


DESIGNED	JCC
DRAWN	JCC
Q.C.	
APPROVED	

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	93

FILE: J:\00193\00193001_18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15-11:17p PLOTTED: Tue, 06/16/15-5:30p BY: John Hutchison



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

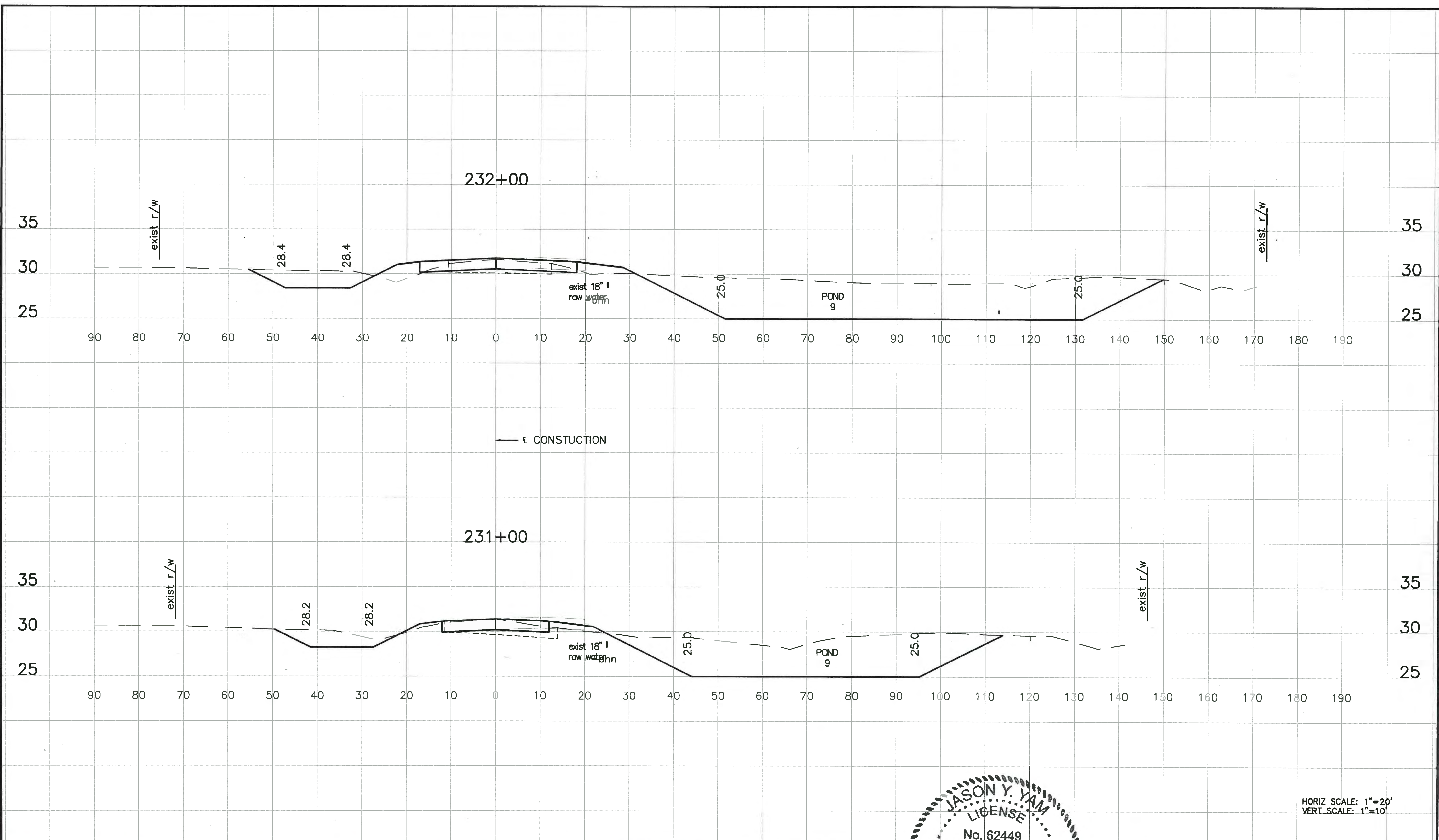
Cardno
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380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

JASON Y. YAM
LICENSE
No. 02449
DATE: 6/18/15
PROFESSIONAL ENGINEER
FLORIDA

**CROSS SECTIONS
38TH AVENUE EAST**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 94

FILE: J:\00193\00193001_18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15 11:17p PLOTTED: Tue, 06/16/15 5:31p BY: John Hutchison



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

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

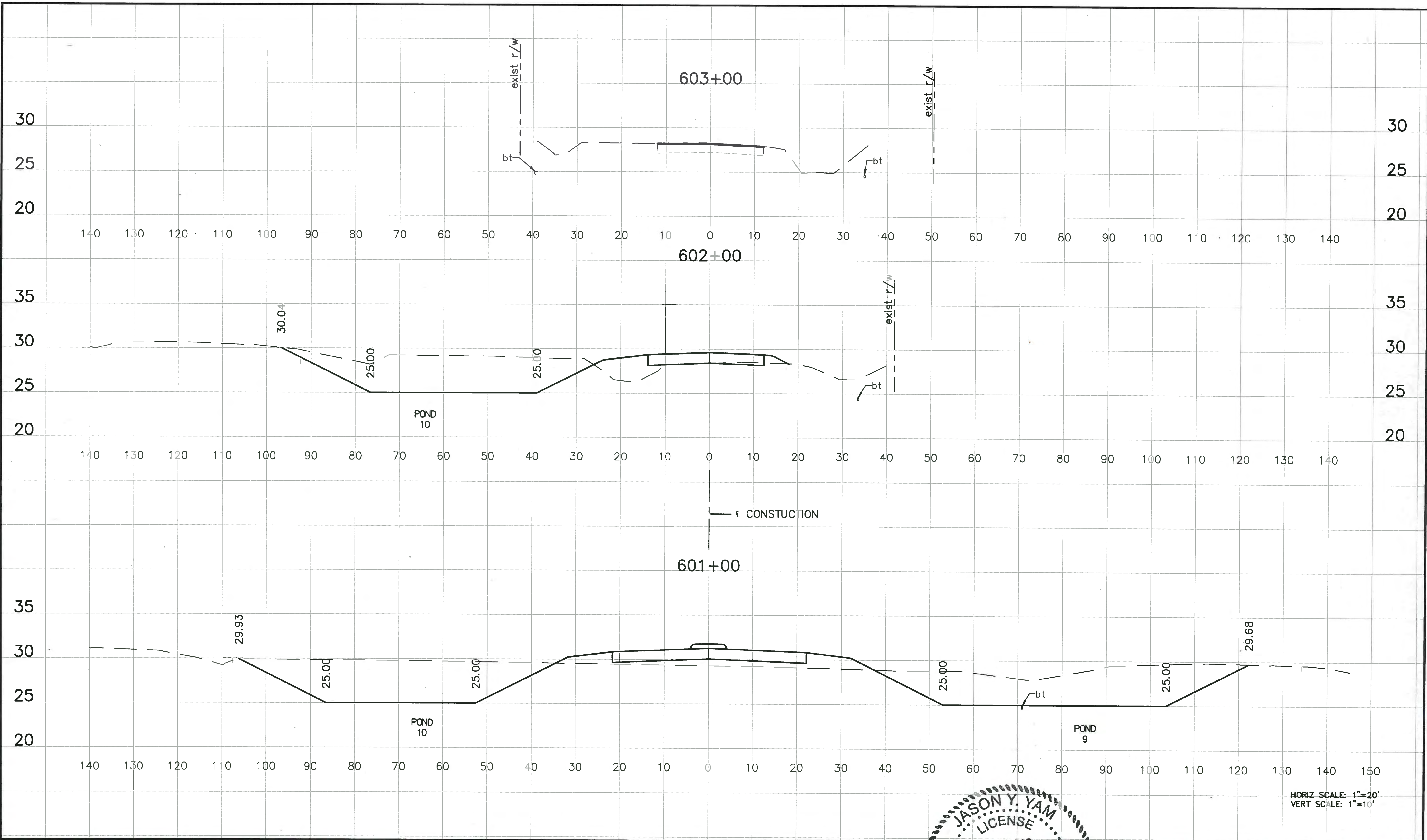
JASON Y. YAM
LICENSE
No. 62449
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DESIGNED	JCC
DRAWN	JCC
Q.C.	
APPROVED	

**CROSS SECTIONS
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	95

FILE: J:\00193\00193001\18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15 1:17p PLOTTED: Tue, 06/16/15 5:31p BY: John Hutchison



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

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

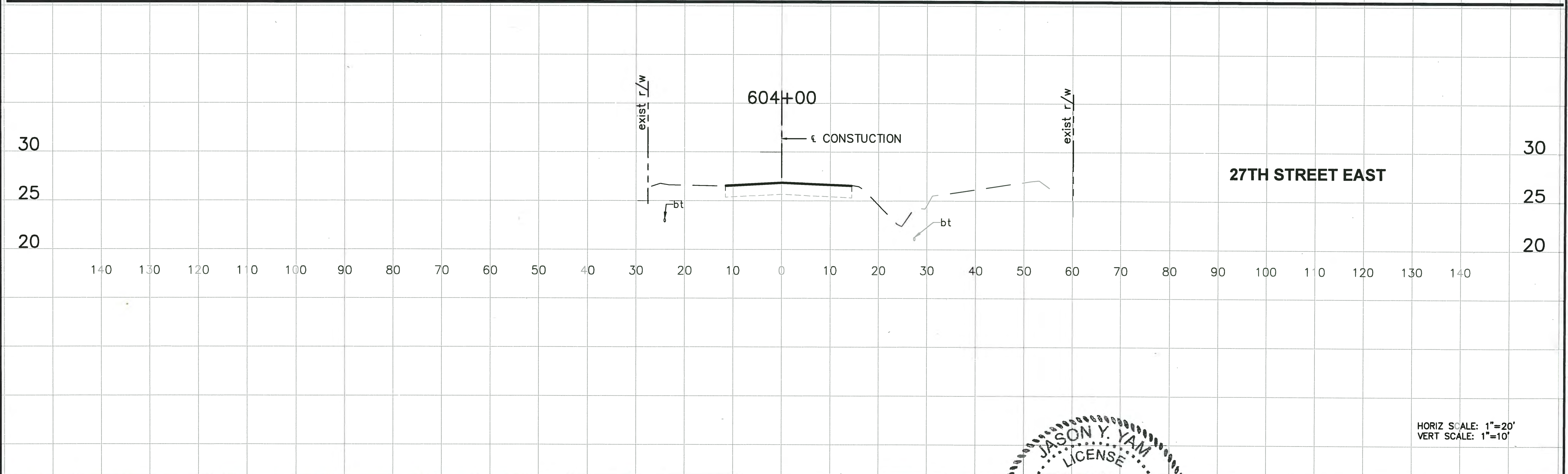
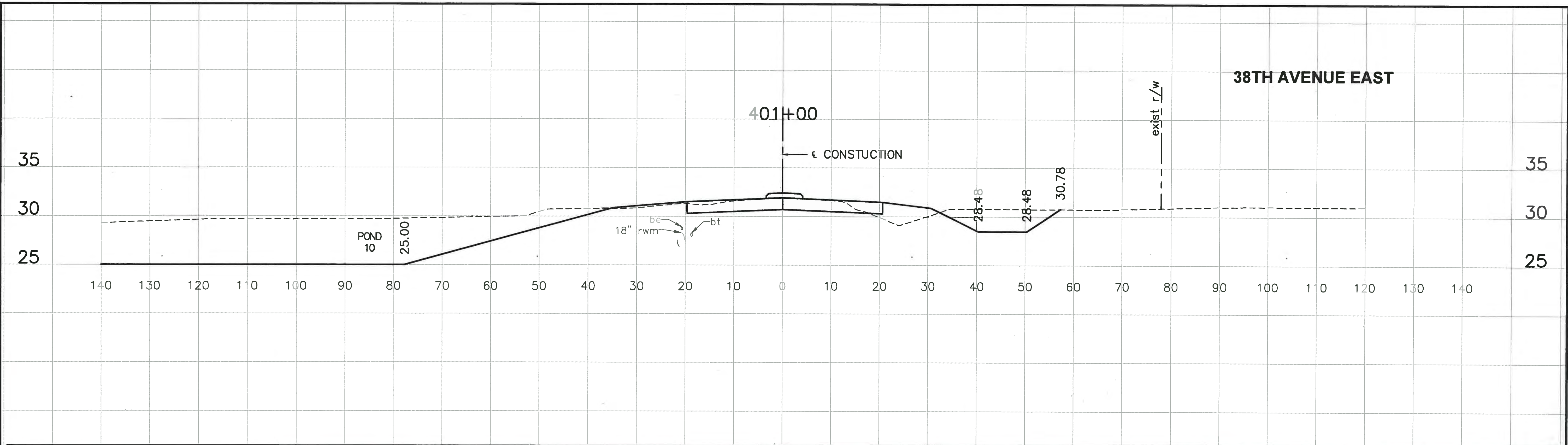
Cardno
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33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

JASON Y. YAM
LICENSE
No. 62449
DESIGNED: JCC
DRAWN: JCC
Q.C.:
APPROVED:
FLORIDA
PROFESSIONAL ENGINEER

**CROSS SECTIONS
27TH STREET EAST**

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
96

FILE: J:\00193\00193001-18\ACAD\dwg\XST19300118-1.dwg LAST SAVED: Tue, 06/18/15 1:17p PLOTTED: Tue, 06/18/15 5:31p BY: John Hutchison



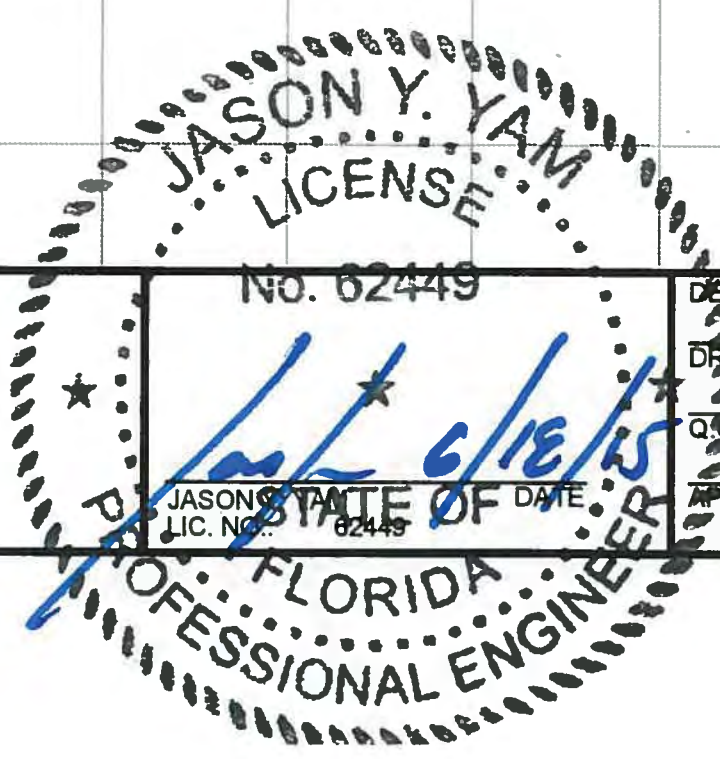
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=10'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno
Shaping the Future
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DESIGNED	JCC
DRAWN	JCC
CHECKED	
APPROVED	

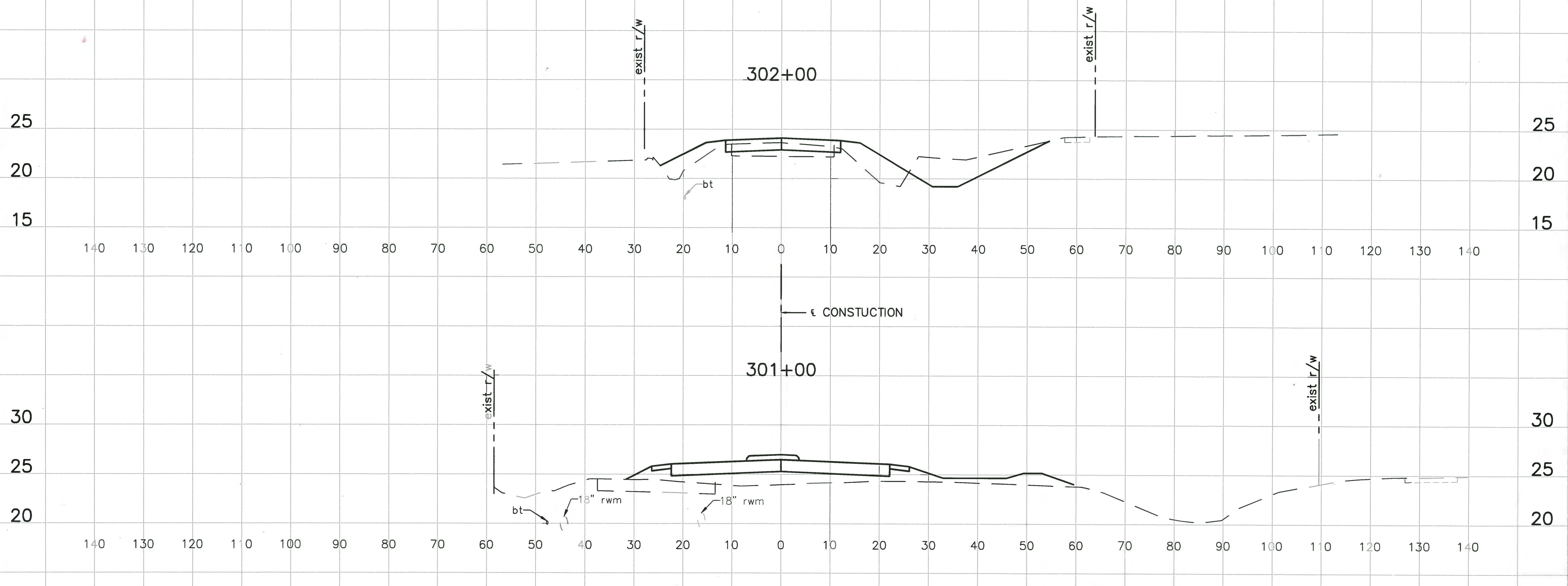
**CROSS SECTIONS
38TH AVENUE EAST
27TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	97

FILE: J:\00193\00193001\18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/18/15-1:17p PLOTTED: Tue, 06/18/15-5:32p BY: John Hutchison

TOTAL PROJECT EARTHWORK SUMMARY

	EXCAVATION	FILL
44TH AVE	32,839 CY	95,636 CY
US 301	4,817 CY	6,441 CY
19TH ST CT E	748 CY	0 CY
30TH ST	6,924 CY	3,058 CY
38TH AVE	763 CY	493 CY
POND 5	14,780 CY	1,424 CY
MITIGATION AREA	609 CY	0 CY
TOTAL PROJECT EXCAVATION	61,480 CY	
TOTAL PROJECT FILL		113,493 CY
TOTAL NET FILL		52,013 CY



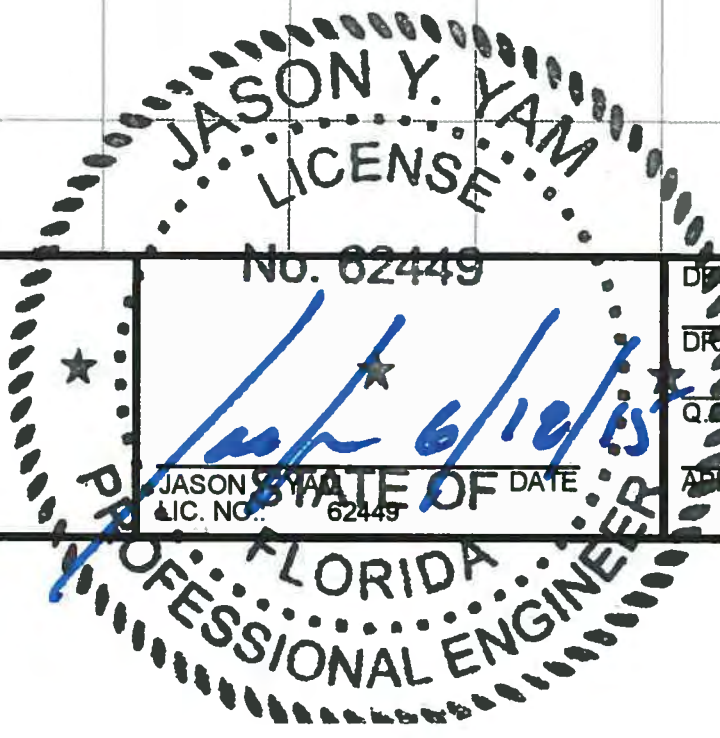
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**44TH AVENUE EAST
ROADWAY EXTENSION**

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33759 TEL: (727) 531-3505 (800) 861-8314
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DESIGNED	JCC
DRAWN	JCC
APPROVED	

**CROSS SECTIONS
38TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	98

FILE: J:\00193\00193001.18\ACAD\dwg\X19300118-1.dwg LAST SAVED: Tue, 06/16/15-1:17p PLOTTED: Tue, 06/16/15-5:32p BY: John Hutchison

K. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS:

SWFWMD ERP
FDOT RIGHT-OF-WAY, DRIVE WAY, DRAINAGE, AND UTILITY PERMITS

III. MAINTENANCE

ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING AN INSPECTION REPORT AFTER ANY 1/2" RAINFALL OR WEEKLY IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL.

IV. NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

1. WATER FROM WATER LINE FLUSHING
2. PAVEMENT WASH WATERS (WHERE NO SPILL OR LEAKS OF TOXIC OR VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED)
3. UNCONTAMINATED GROUNDWATER FROM DEWATERING ACTIVITIES

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER.

V. MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

A. GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT:

STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB ON SITE. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. SUBSTANCES SHALL NOT BE MIXED WITH ON ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

B. HAZARDOUS PROJECTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL OPENED CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE KEPT ON-SITE ON THE CONSTRUCTION OFFICE TRAILER. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED. THE CONTRACTOR MUST IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS.

C. CONCRETE TRUCKS

CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.

D. SPILL CONTROL PRACTICES

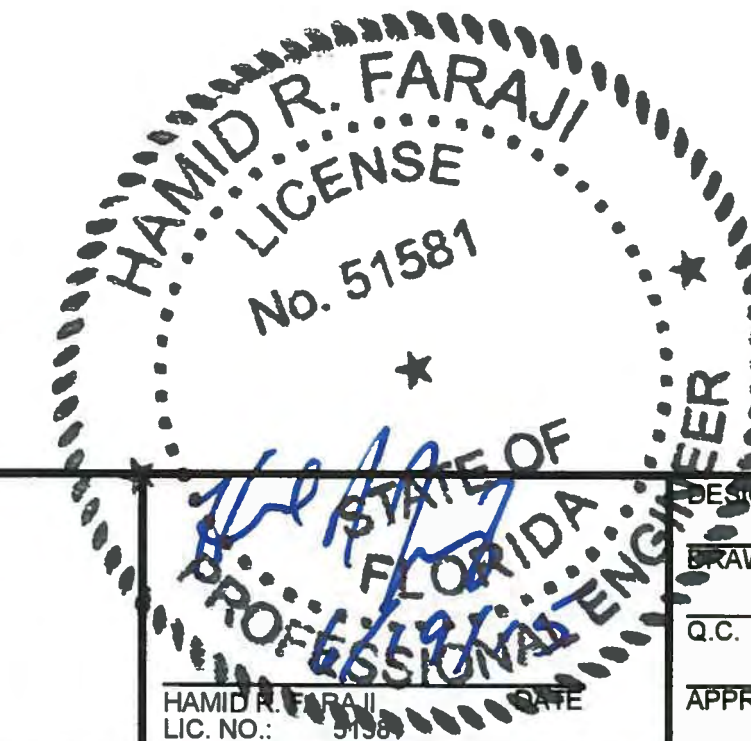
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.
2. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
5. THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE CONSTRUCTION OFFICE TRAILER AND WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.
6. THE SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

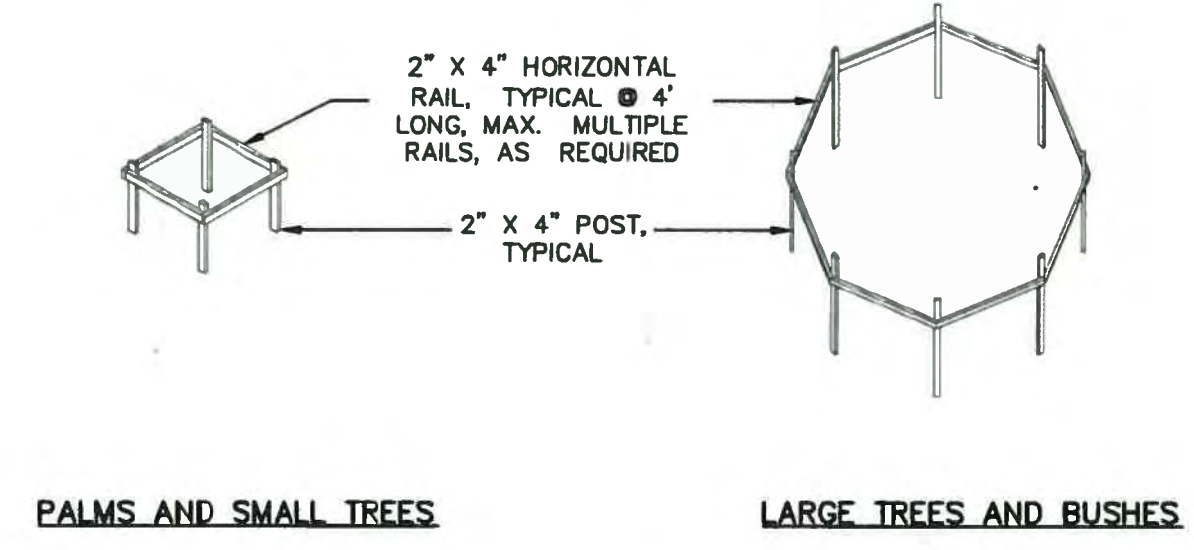
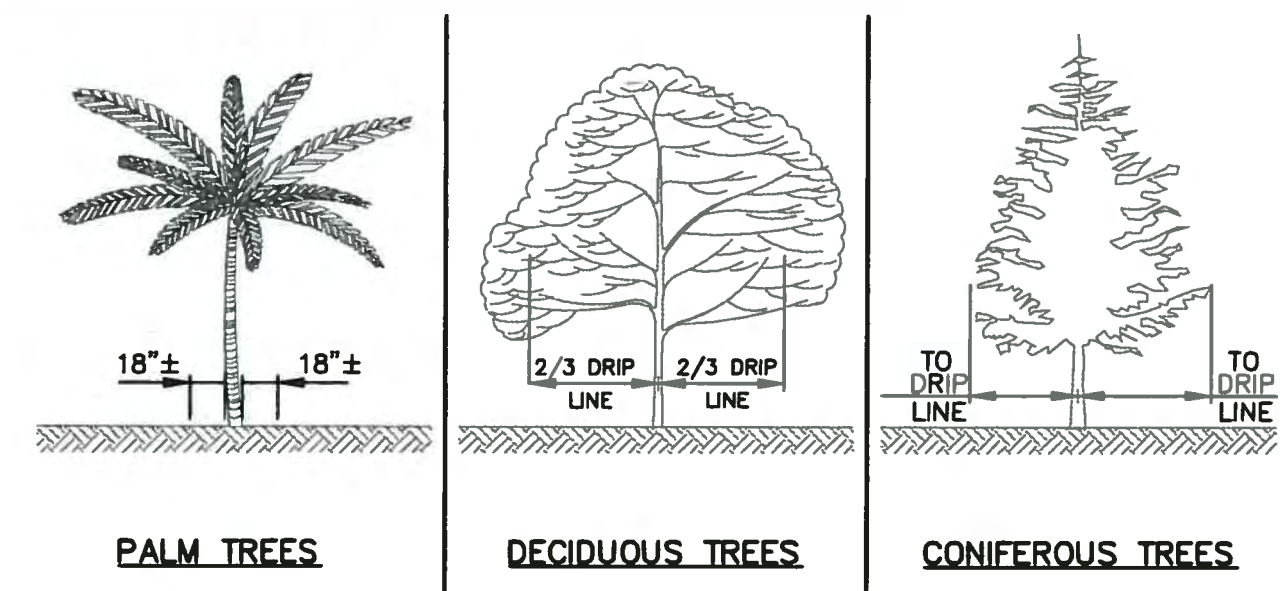
44TH AVENUE EAST
ROADWAY EXTENSION



DESIGNED HRF
DRAWN JH
G.C.
APPROVED

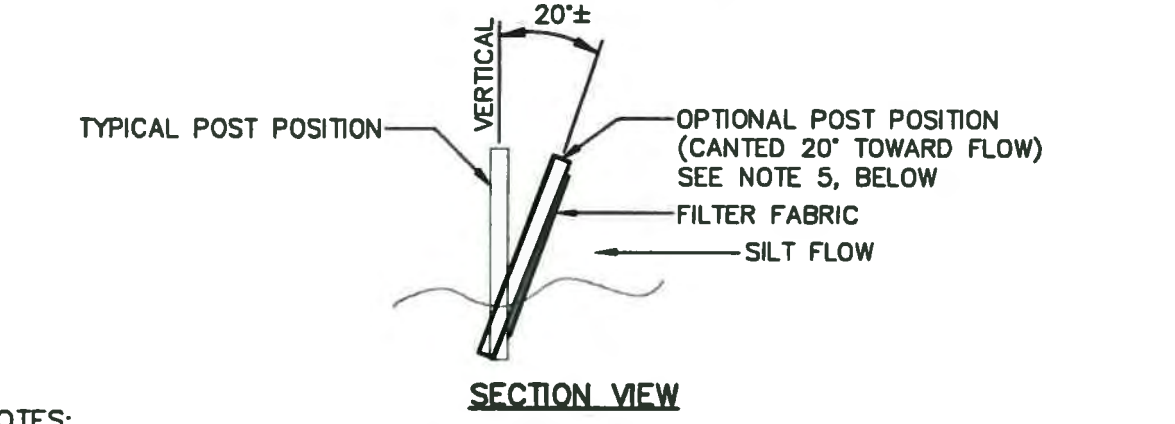
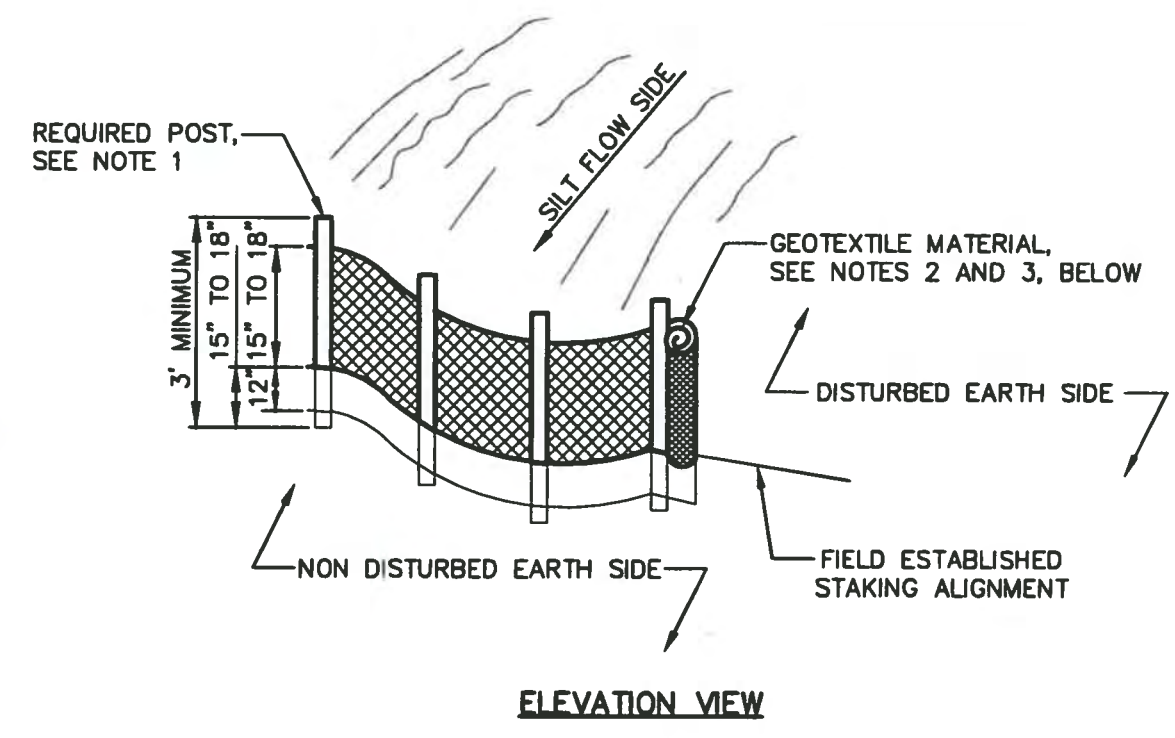
STORMWATER
POLLUTION
PREVENTION PLAN

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
100



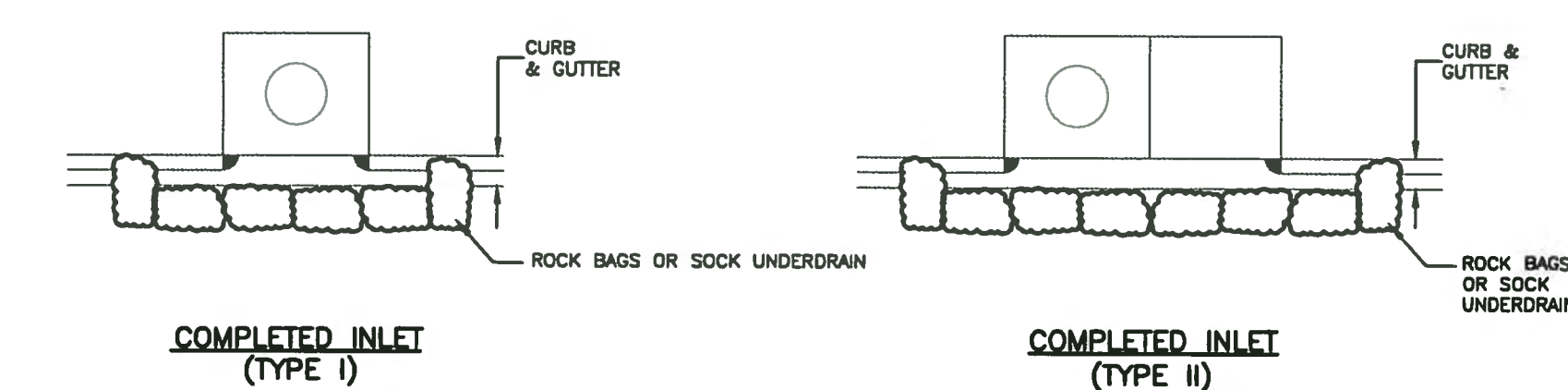
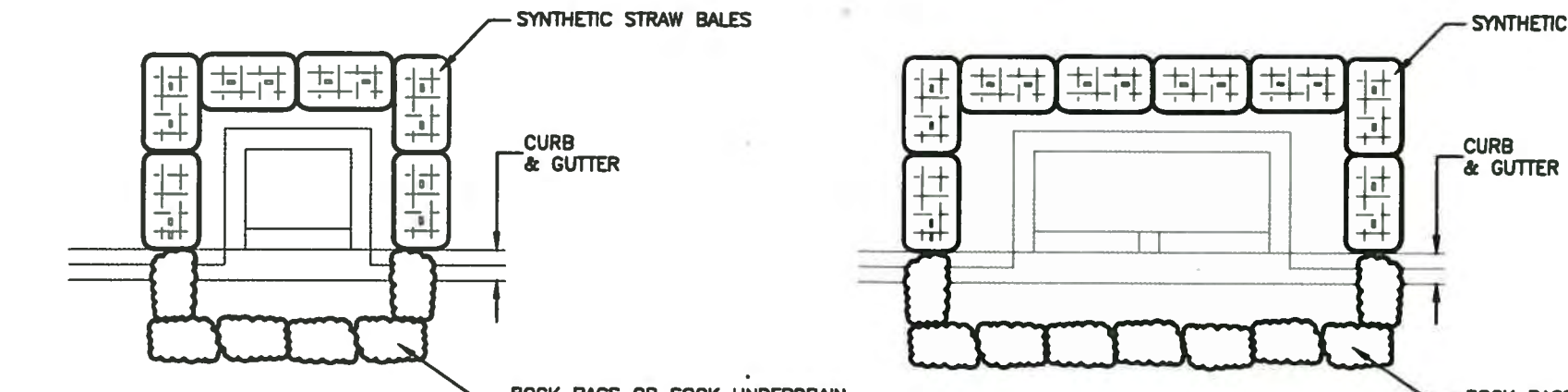
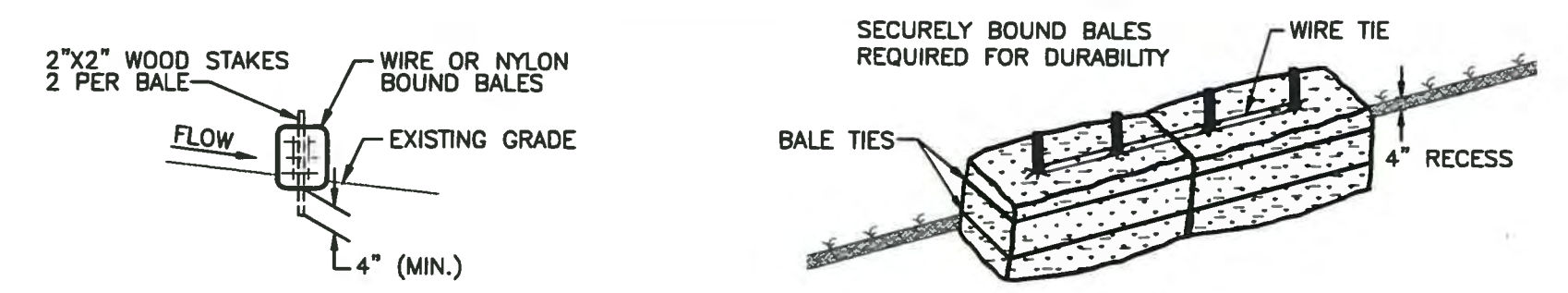
NOTES:
 1. NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS, ONLY HAND LABOR ALLOWED.
 2. NO CONSTRUCTION MATERIALS, SOILS DEPOSITS, OR SOLVENTS SHALL BE ALLOWED WITHIN BARRIERS.
 3. BARRIERS ARE TO IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN TREE AREA.
 4. BARRIERS ARE TO STAY IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT IS REMOVED FROM THE AREA.

TREE PROTECTION BARRIERS DETAIL
NTS

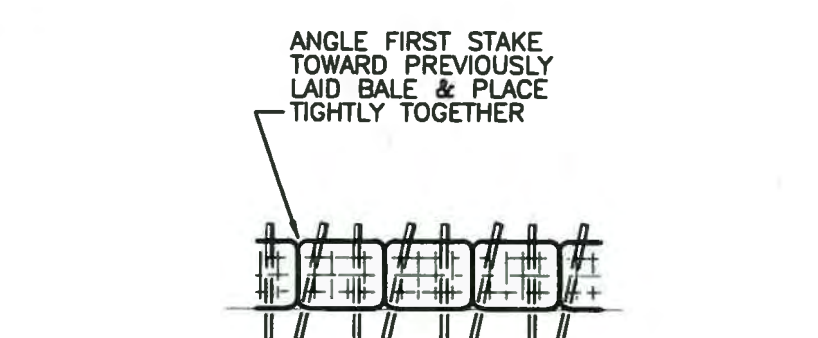
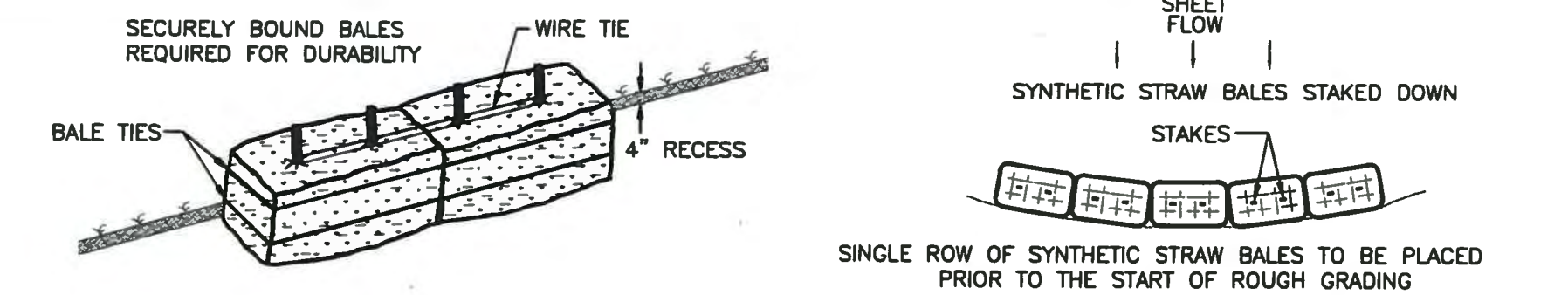


NOTES:
 1. POST: 2" X 2" WOOD, P.T. OR 2-1/2" Ø STEEL AT 6'-0" CENTERS MAXIMUM.
 2. GEOTEXTILE: GRAB TENSILE AT 90 LBS, TRAPEZOIDAL TEAR AT 35 LBS., MULLEN BURST AT 180 PSI.
 3. GEOTEXTILE MATERIAL SHALL BE BURIED IN THE GROUND A MINIMUM OF 12" AND BACK FILLED.
 4. ALSO SEE FDOT INDEX 199, "GEOTEXTILE CRITERIA", EROSION CLASS.
 5. OPTIONAL POST POSITION REQUIRED WHEN SLOPE IS GREATER THAN 1:2.

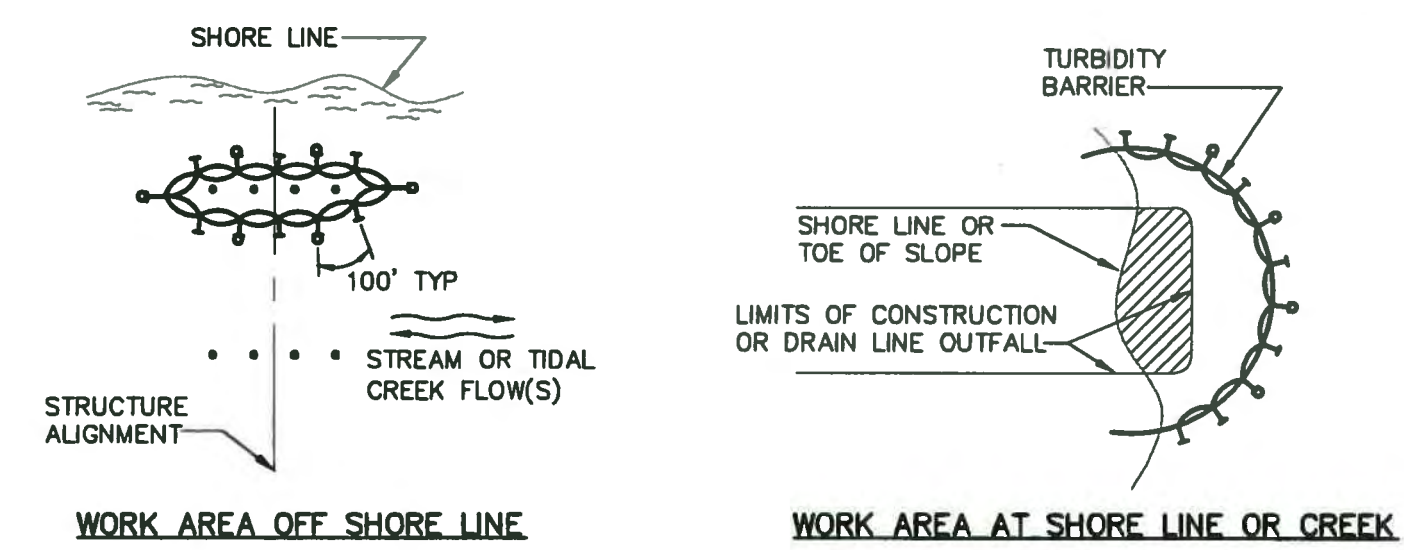
SEDIMENT BARRIER DETAIL
NTS



NOTE:
 CONTRACTOR MAY USE OTHER ACCEPTABLE EROSION CONTROL DEVICES AROUND INLETS AS APPROVED BY THE ENGINEER.



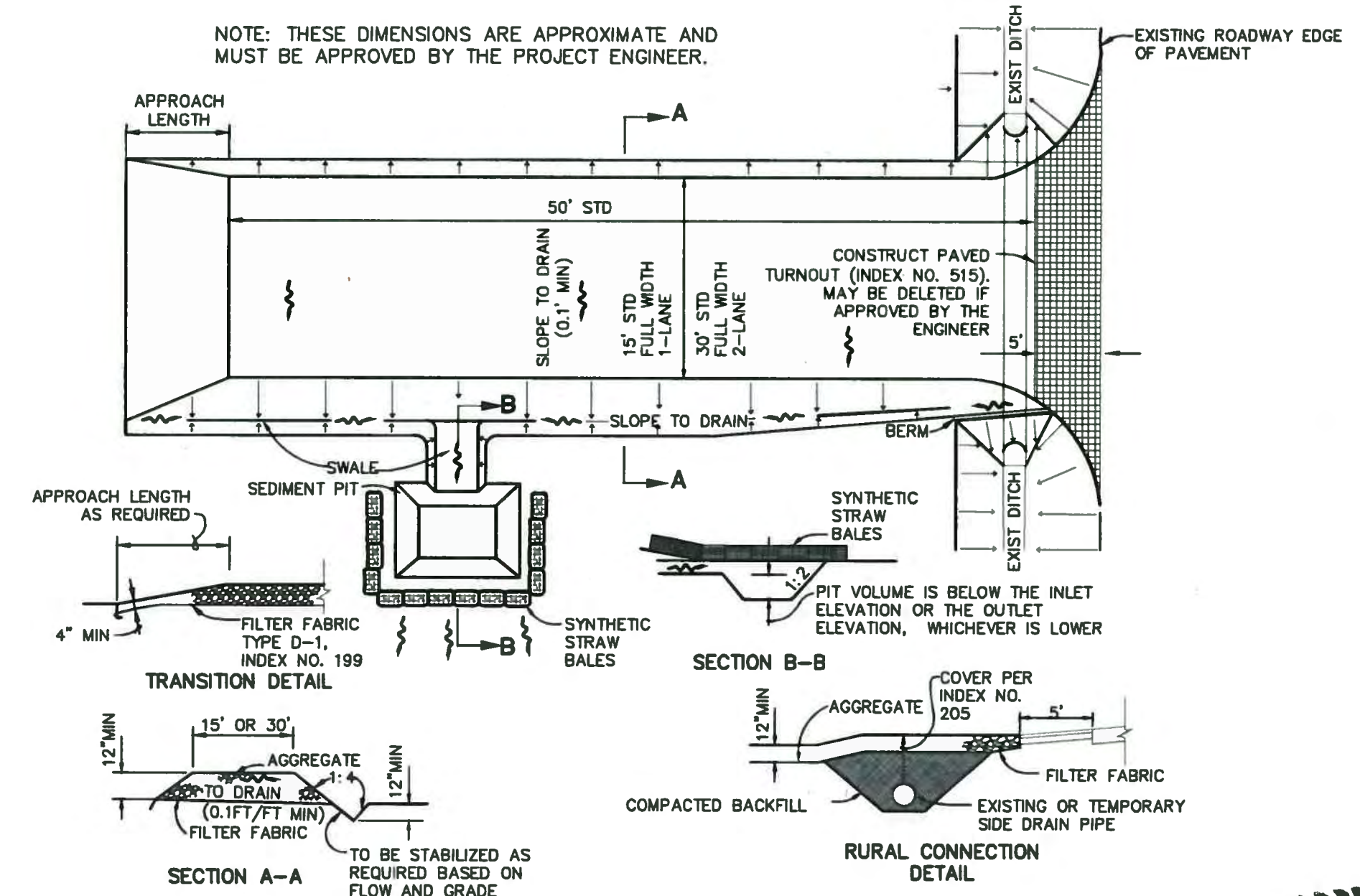
ROCK BAGS, SYNTHETIC STRAW OR SILT BARRIERS
NTS



LEGEND
 [Symbol] DREDGE OR FILL AREA
 [Symbol] MOORING BUOY W/ ANCHOR
 [Symbol] BARRIER MOVEMENT DUE TO CURRENT ACTION
 [Symbol] TO CURRENT ACTION
 [Symbol] PILE LOCATIONS
 [Symbol] WAVE ACTION

NOTES:
 1. CURTAIN TO REACH THE BOTTOM UP TO DEPTHS OF 10'. 2 PANELS ARE TO BE USED FOR DEPTHS GREATER THAN 10' UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY ARE CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 2. COMPONENTS OF TYPES I AND TYPES II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND/OR TYPE II SHALL BE AS APPROVED BY THE ENGINEER.
 3. TURBIDITY BARRIERS SHALL BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
 4. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
 5. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
 6. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION ACTIVITIES.
 7. FOR ADDITIONAL INFORMATION, SEE SECTION 104 OF THE STANDARD FDOT SPECIFICATIONS.

FLOATING TURBIDITY BARRIER DETAIL
NTS



SOIL TRACKING PREVENTION DEVICE TYPE A
NTS

SOIL TRACKING PREVENTION DEVICE NOTES

- IF DEEMED NECESSARY A SOIL TRACKING PREVENTION DEVICE (STPD) WILL BE CONSTRUCTED AT LOCATIONS DESIGNATED BY THE DESIGN BUILDER FOR POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFF SITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE CONSTRUCTION PROJECT SHOULD BE DIRECTED THROUGH A STPD. BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHOULD BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STPD.
- THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFF SITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ITS USE.
- ALL MATERIALS SPILLED, DROPPED OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE AND CONSTRUCTION MUD) SHOULD BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
- AGGREGATE SHALL BE DESCRIBED IN SECTION 901 EXCLUDING 901-2.3. AGGREGATES SHALL BE FDOT SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE NOT SUITABLE.
- THE SEDIMENT PIT SHOULD PROVIDE A RETENTION VOLUME OF 3600 CUBIC FEET/ACRE OF SURFACE AREA DRAINING TO THE PIT. WHEN THE STPD IS ISOLATED FROM OTHER DRAINAGE AREAS, THE FOLLOWING PIT VOLUMES WILL SATISFY THIS REQUIREMENT: 15'X50'=100 FT.³ 30'X50'=200 FT.³ AS AN OPTION TO THE SEDIMENT PIT, THE WIDTH OF THE SWALE BOTTOM CAN BE INCREASED TO OBTAIN THE VOLUME. WHEN THE SEDIMENT PIT OR SWALE VOLUME HAS BEEN REDUCED TO ONE HALF, IT SHALL BE CLEANED. WHEN A SWALE IS USED, HAY BALES OR SILT FENCE SHALL BE PLACED ALONG THE ENTIRE LENGTH.
- THE SWALE DITCH DRAINING THE STPD SHALL HAVE A 0.2% MINIMUM AND A 1.0% MAXIMUM GRADE ALONG THE STPD AND TO THE SEDIMENT PIT.
- MITERED END SECTIONS ARE NOT REQUIRED WHEN THE SIDE DRAIN PIPE SATISFIES THE CLEAR ZONE REQUIREMENTS.
- THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFFSET TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THROUGH THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT MUD TRACKED.
- THE STPD WILL INCLUDE CONSTRUCTION, MAINTENANCE, REPLACEMENT OF MATERIALS, REMOVAL, AND RESTORATION OF THE AREA UTILIZED FOR THE STPD: INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING, TEMPORARY PIPE (INCLUDING M.E.S. WHEN REQUIRED), FILTER FABRIC, AGGREGATE, PAVED TURNOUT (INCLUDING ASPHALT AND BASE CONSTRUCTION), DITCH STABILIZATION, APPROACH ROUTE STABILIZATION, SEDIMENT REMOVAL AND DISPOSAL, WATER, RINSING AND CLEANING OF THE STPD AND CLEANING OF PUBLIC ROADS, GRASSING AND SO.
- THE NOMINAL SIZE OF A STANDARD STPD IS 15'X50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXITING VEHICLES WARRANT, A 30' WIDTH STPD MAY BE USED IF APPROVED BY THE ENGINEER. WHEN A DOUBLE WIDTH (30') STPD IS USED, THE PAY QUANTITY SHALL BE 2 FOR EACH LOCATION.



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

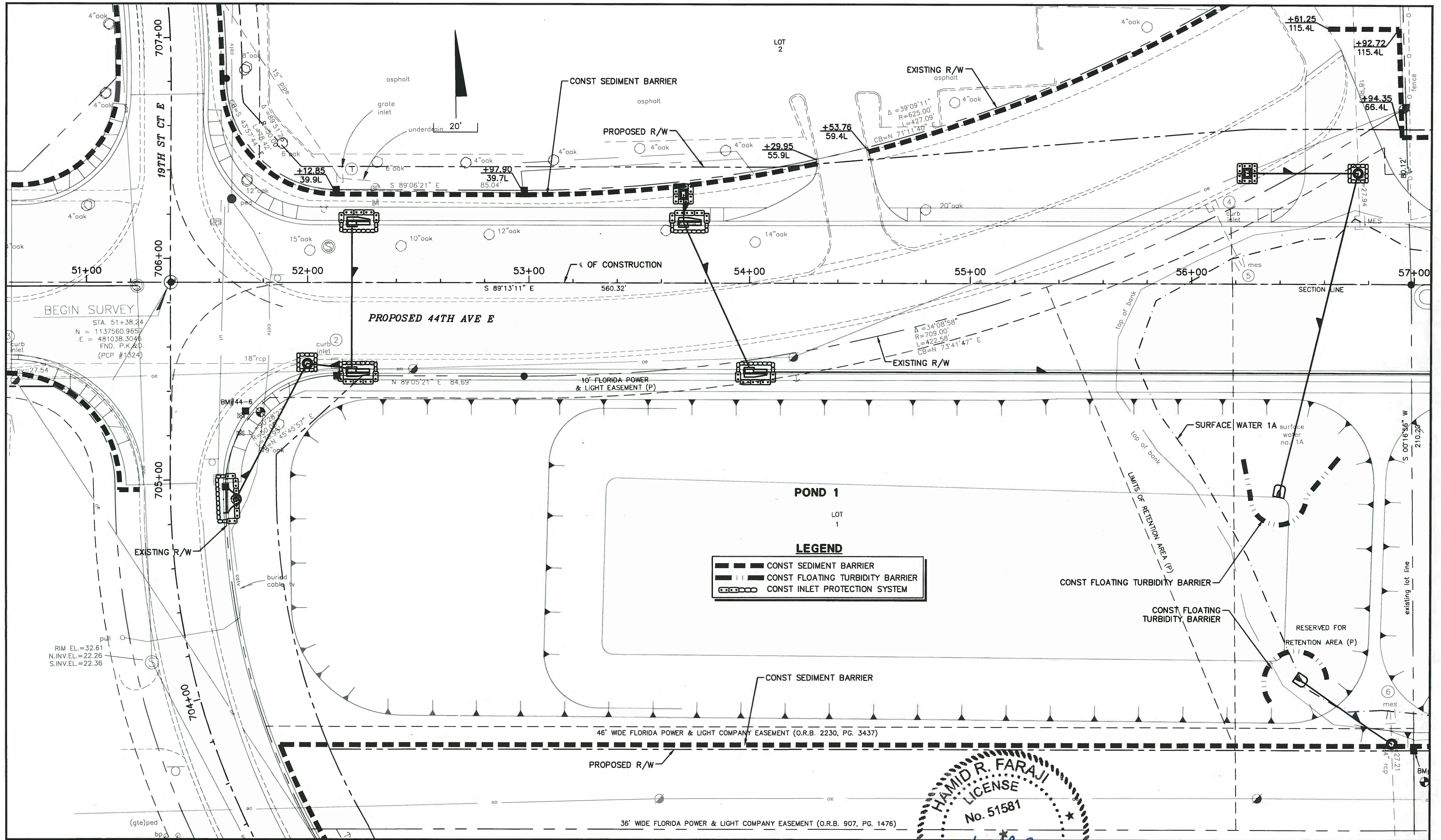
44TH AVENUE EAST ROADWAY EXTENSION

Cardno Shaping the Future
 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 34615
 33759 TEL: (727) 531-3505 (800) 888-8314
 www.cardno.com Certificate of Authorization No. 19915

DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

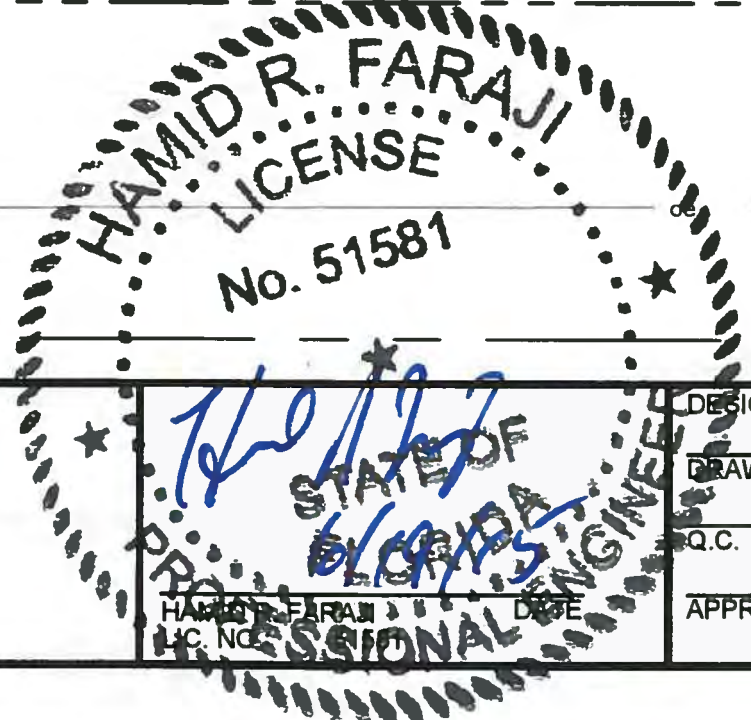
**EROSION CONTROL AND TREE PROTECTION
 44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	101



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

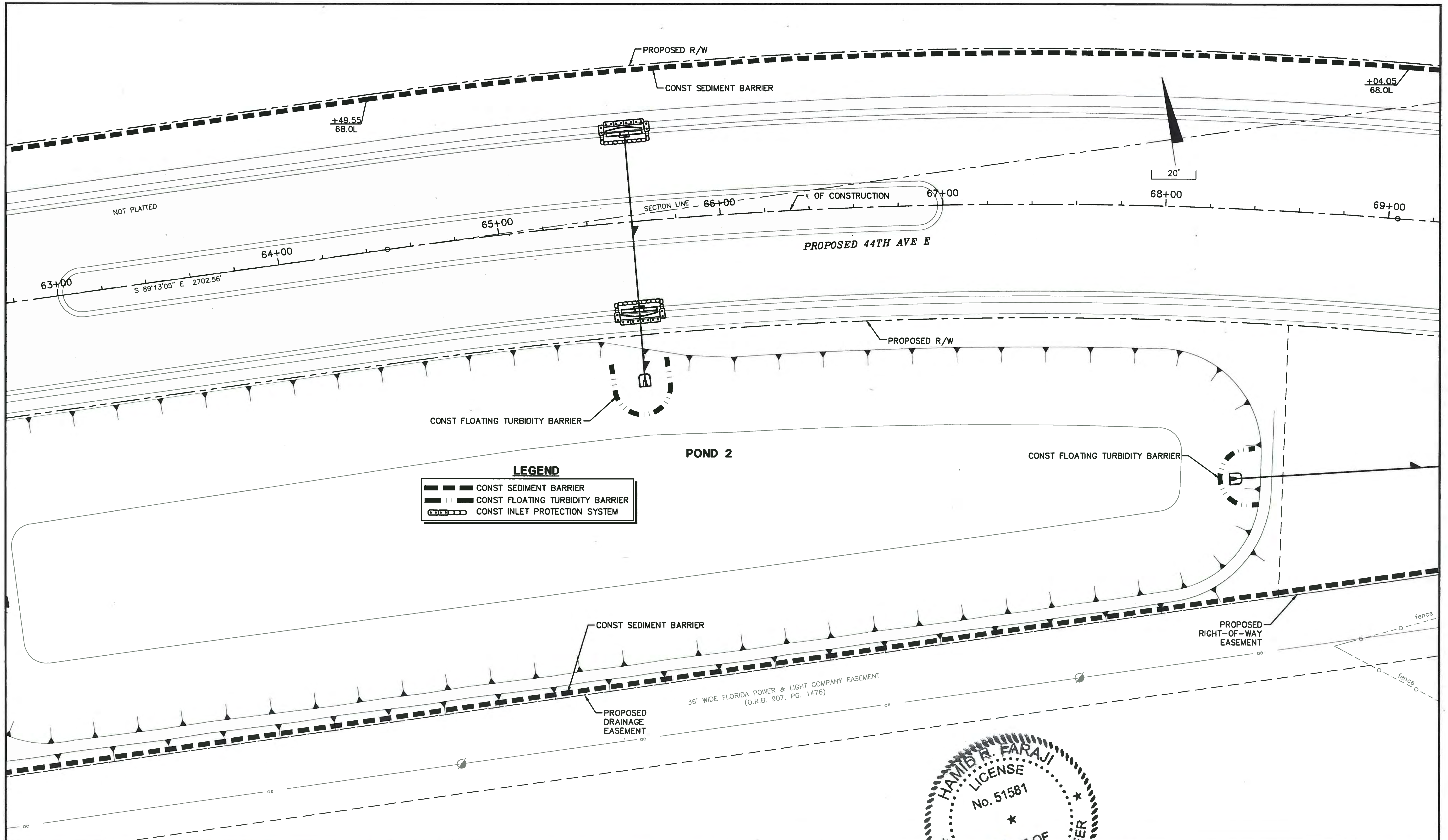
**44TH AVENUE EAST
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DRAWN	JJH
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APPROVED	

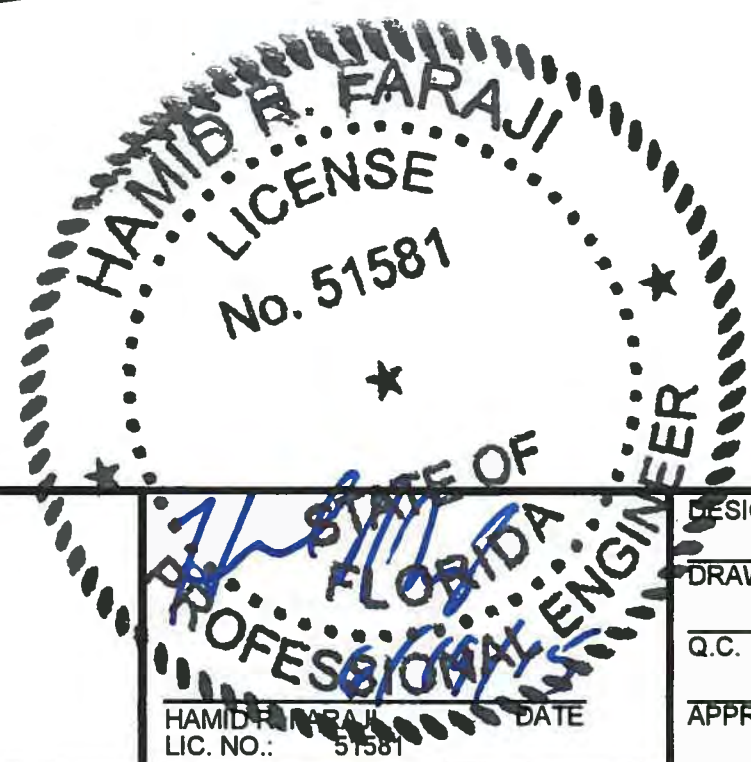
**EROSION CONTROL PLAN
44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	102



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

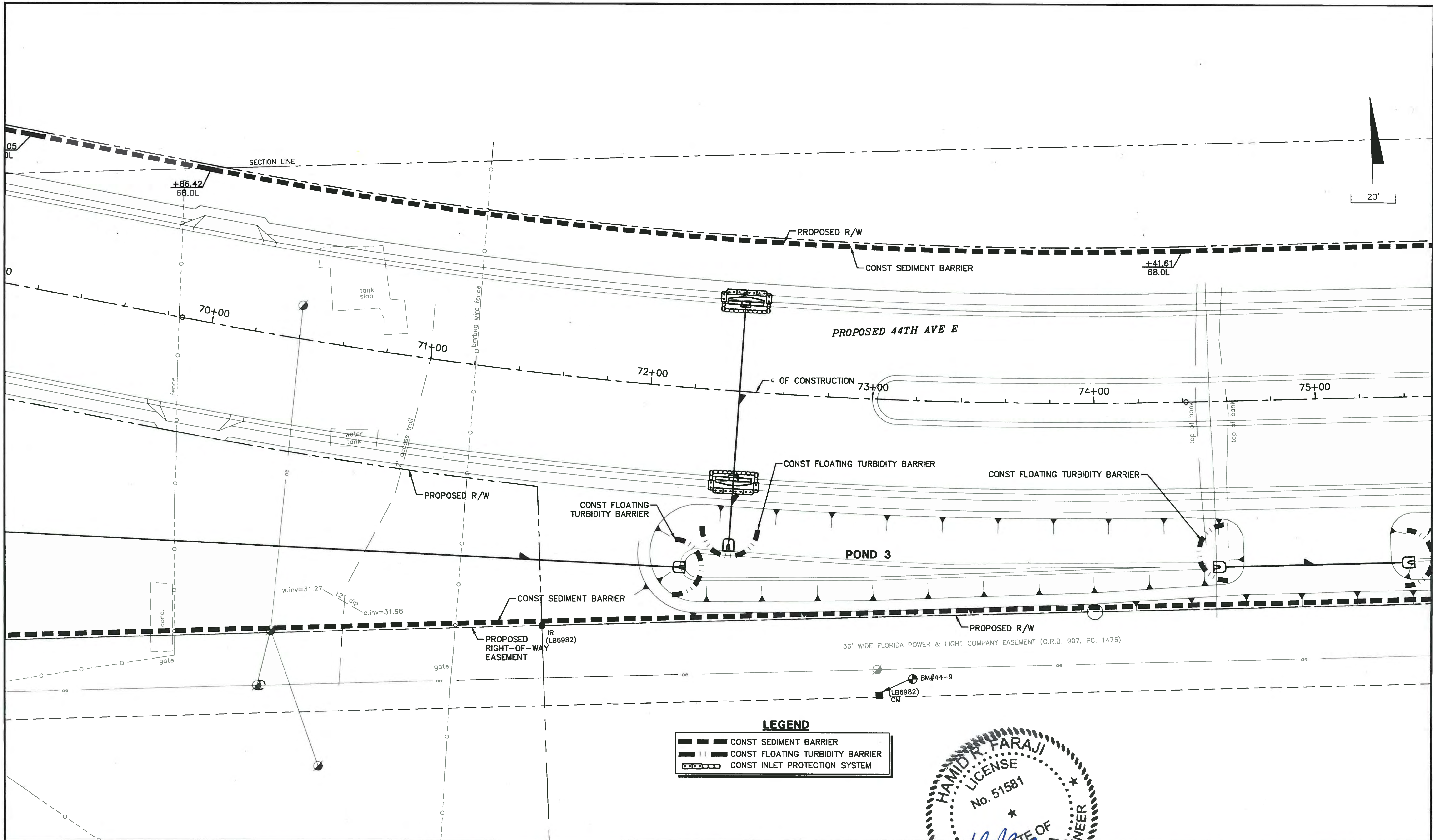
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**EROSION CONTROL PLAN
44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	104

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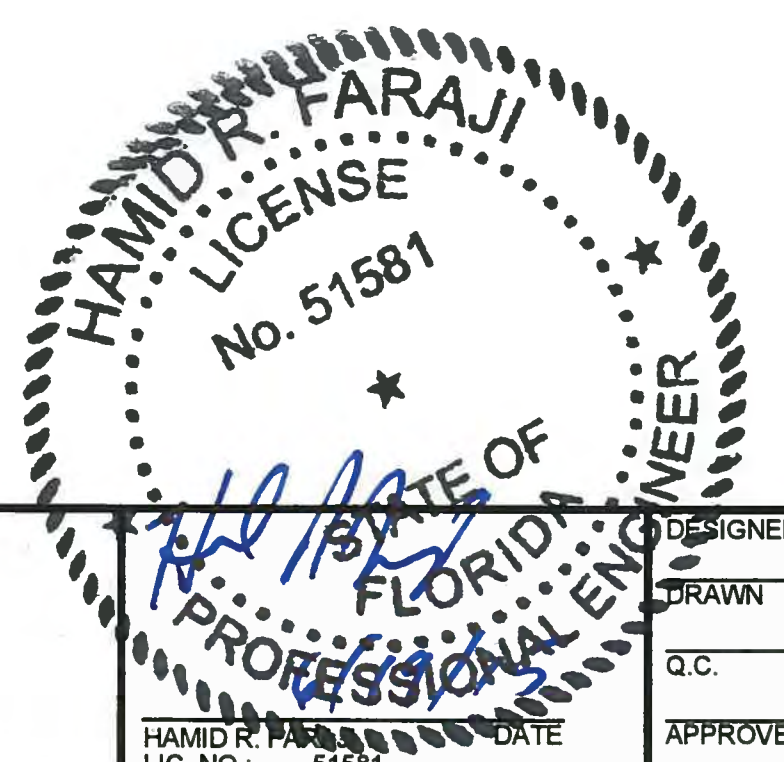


NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

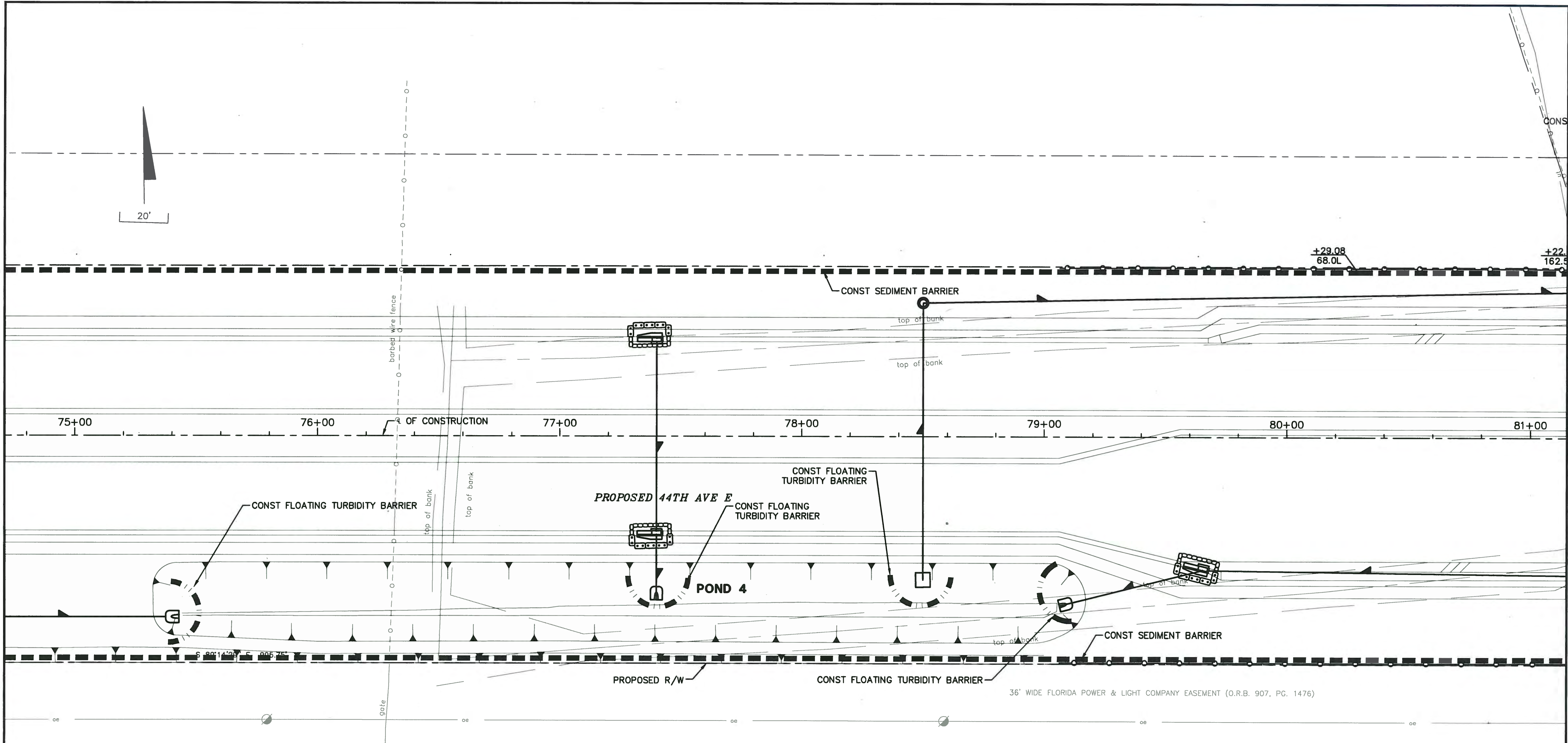
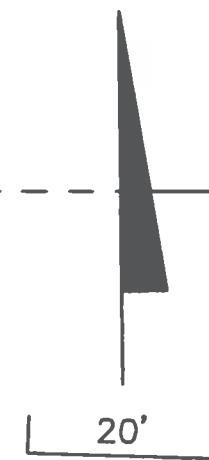
**44TH AVENUE EAST
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 HAMID R. FARAJI
 LICENSE
 No. 51581
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

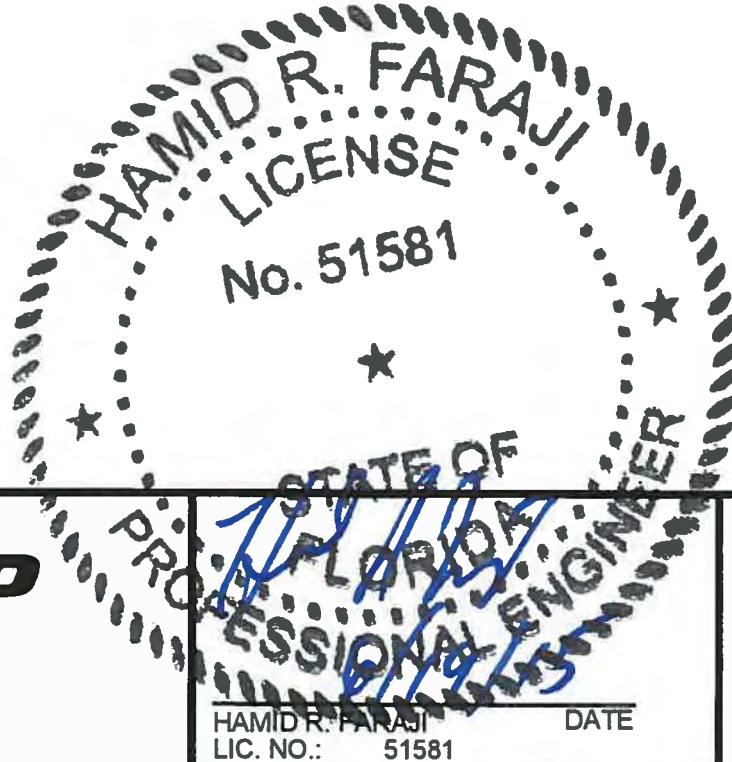
**EROSION CONTROL PLAN
44TH AVENUE EAST**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 105



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

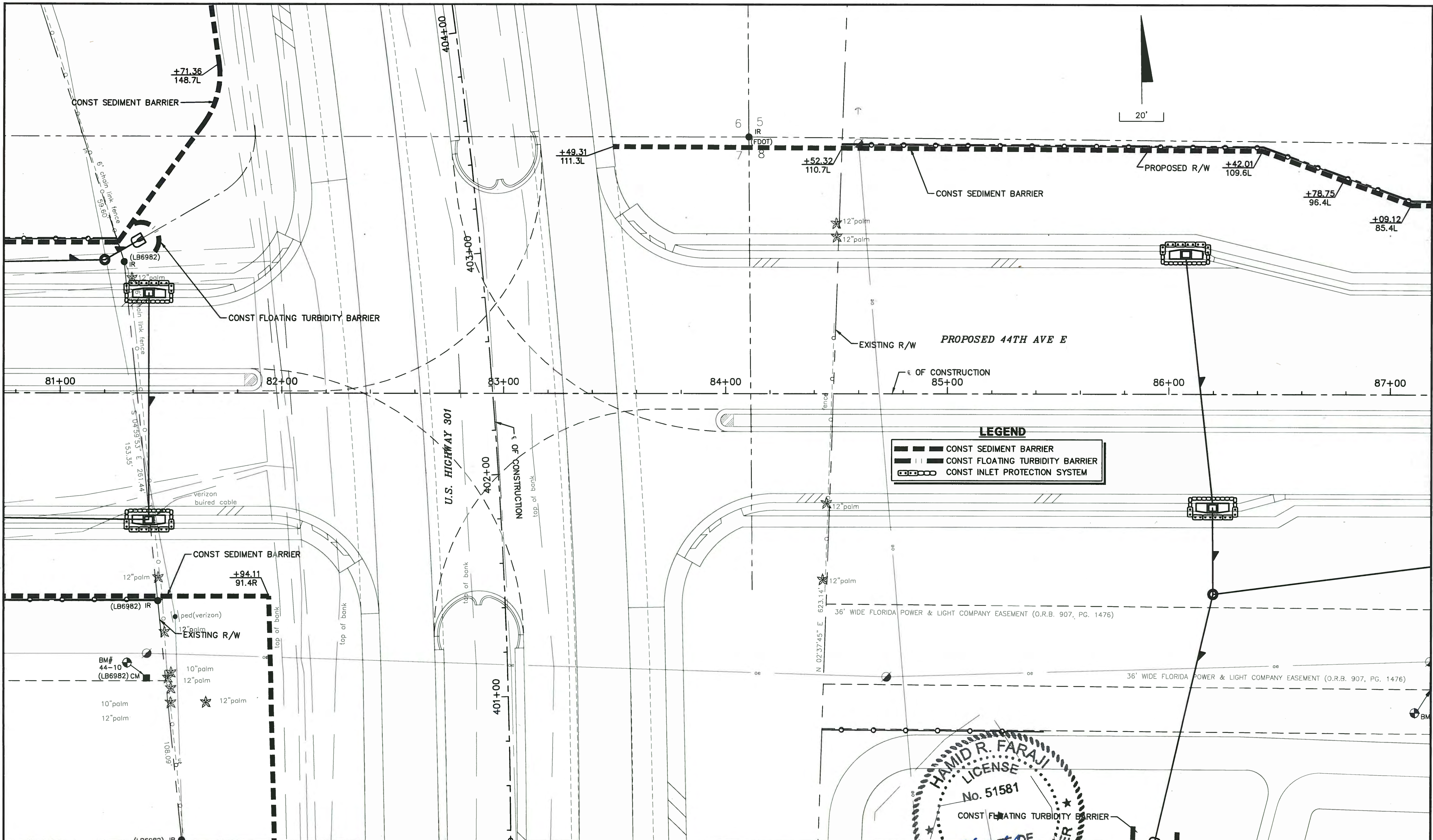
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DRAWN	JJH
Q.C.	
APPROVED	

**EROSION CONTROL PLAN
44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	106

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ROADWAY EXTENSION**

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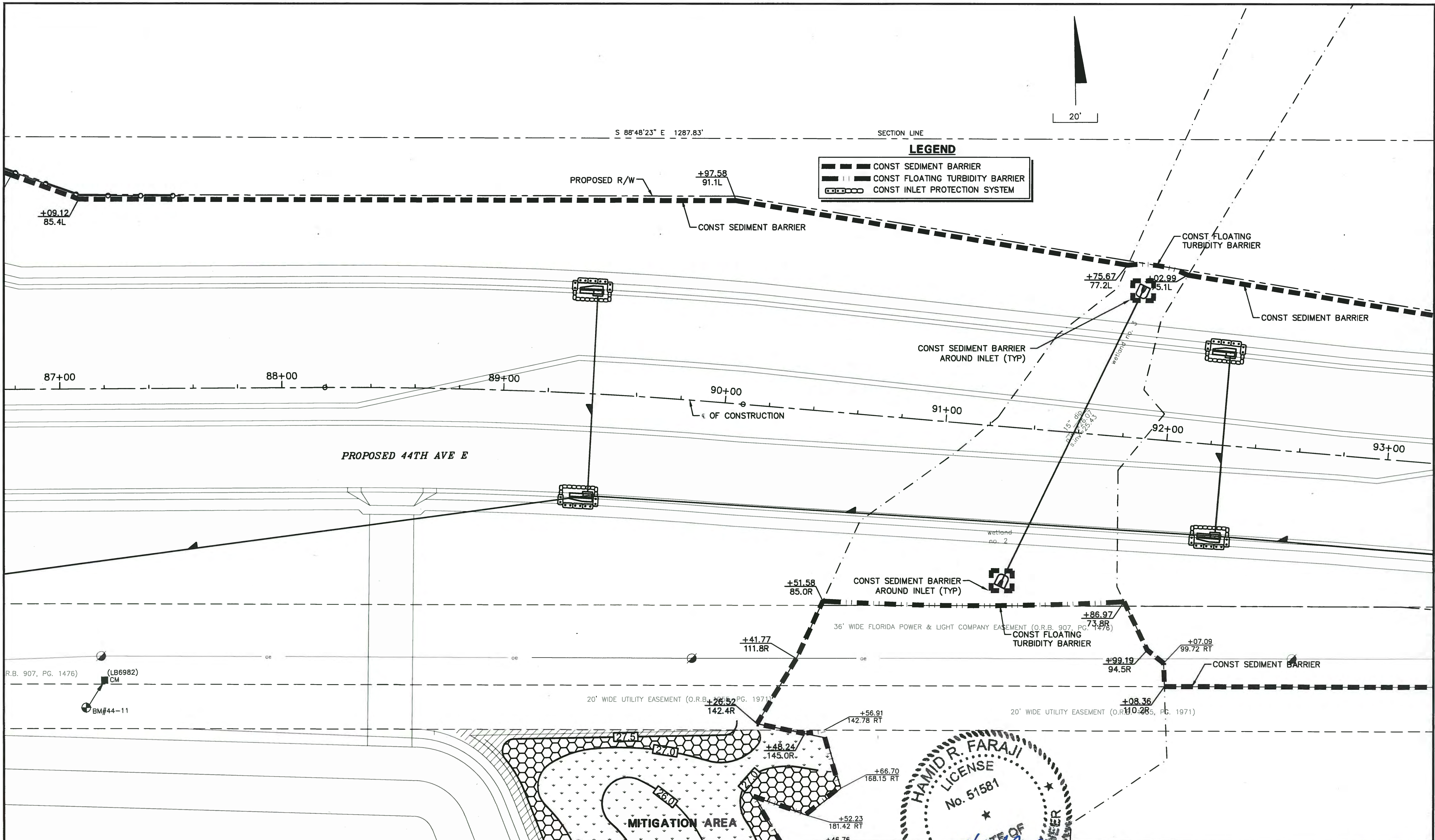
HAMID R. FARAJI
LICENSE
No. 51581
CONST FLOATING TURBIDITY BARRIER
PROFESSIONAL ENGINEER
STATE OF FLORIDA
DATE
LIC. NO.: 51581

DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

**EROSION CONTROL PLAN
44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	107

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LEGEND

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	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM

MANATEE COUNTY

44TH AVENUE EAST
ROADWAY EXTENSION

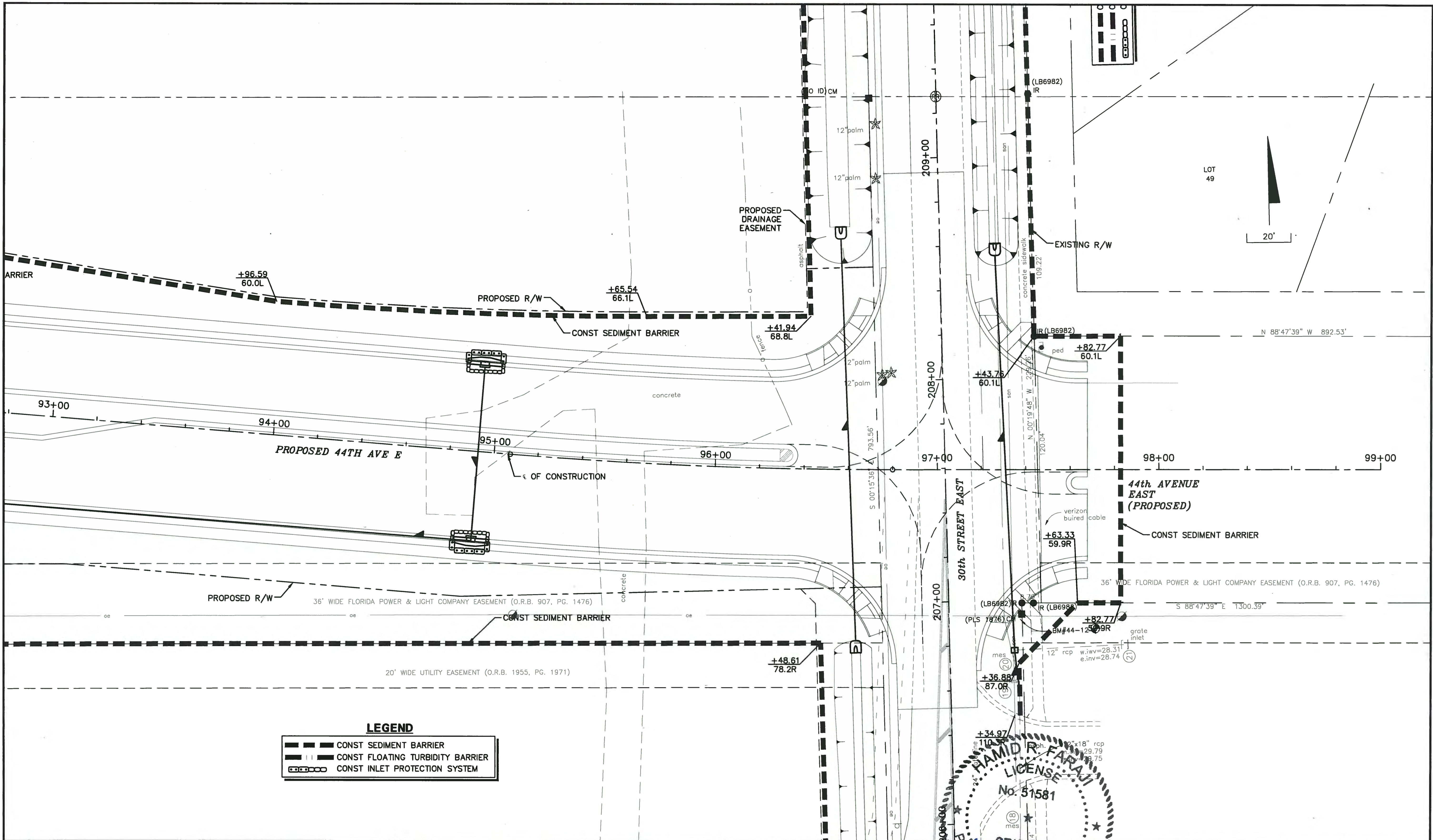
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HAMID R. FARAJI
LICENSE
No. 51581
PROFESSIONAL ENGINEER
STATE OF FLORIDA
DATE

DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

EROSION CONTROL PLAN
44TH AVENUE EAST

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	108



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

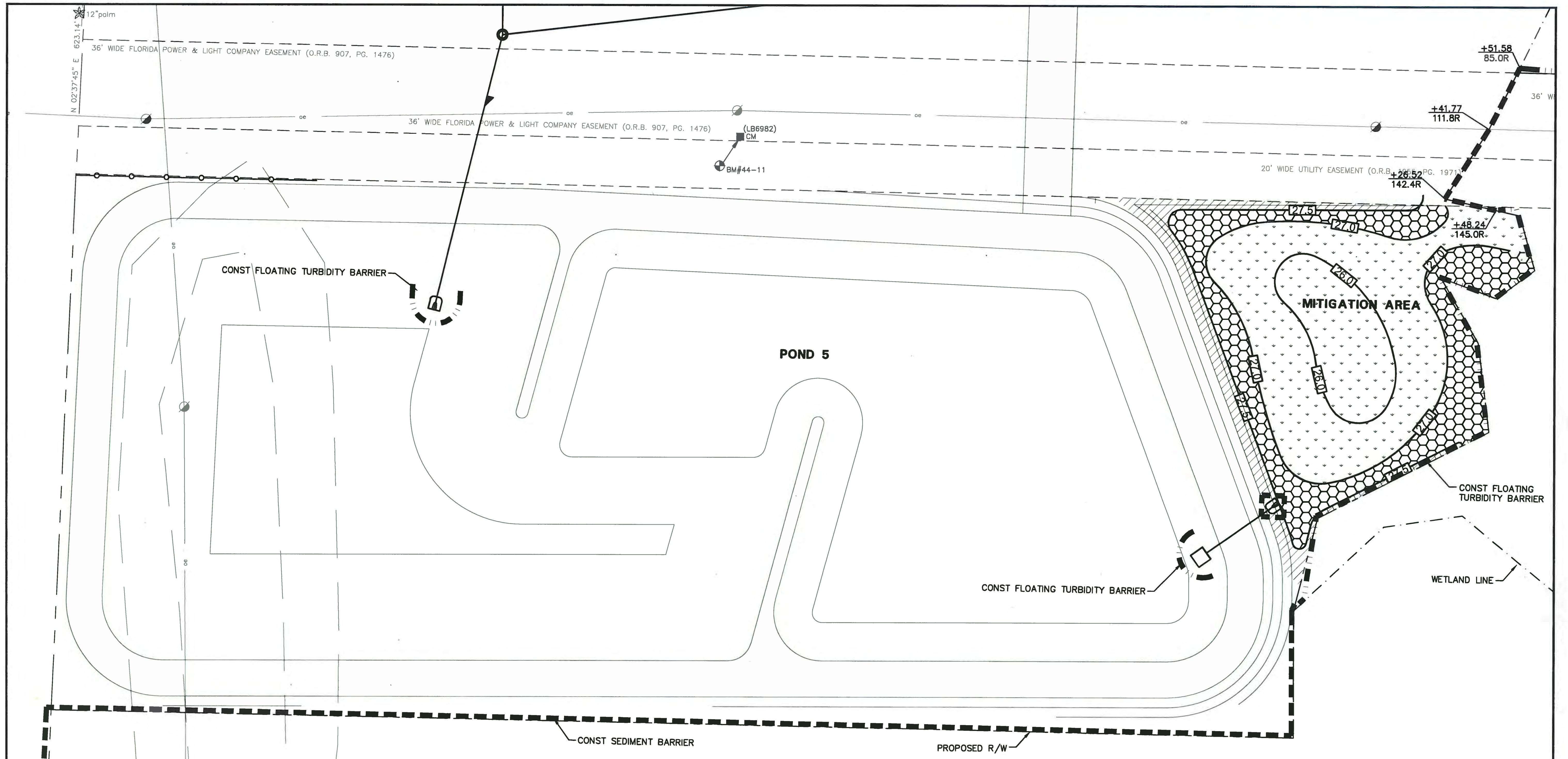
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HAMID R. FARAJ
 LICENSED PROFESSIONAL ENGINEER
 No. 51581
 STATE OF FLORIDA
 LICENSED PROFESSIONAL ENGINEER
 No. 51581

**EROSION CONTROL PLAN
44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	109

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LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NOTE: ALL STATION AND OFFSET INFORMATION ARE BASED ON 44TH AVENUE'S ϵ OF CONSTRUCTION.

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

44TH AVENUE EAST ROADWAY EXTENSION

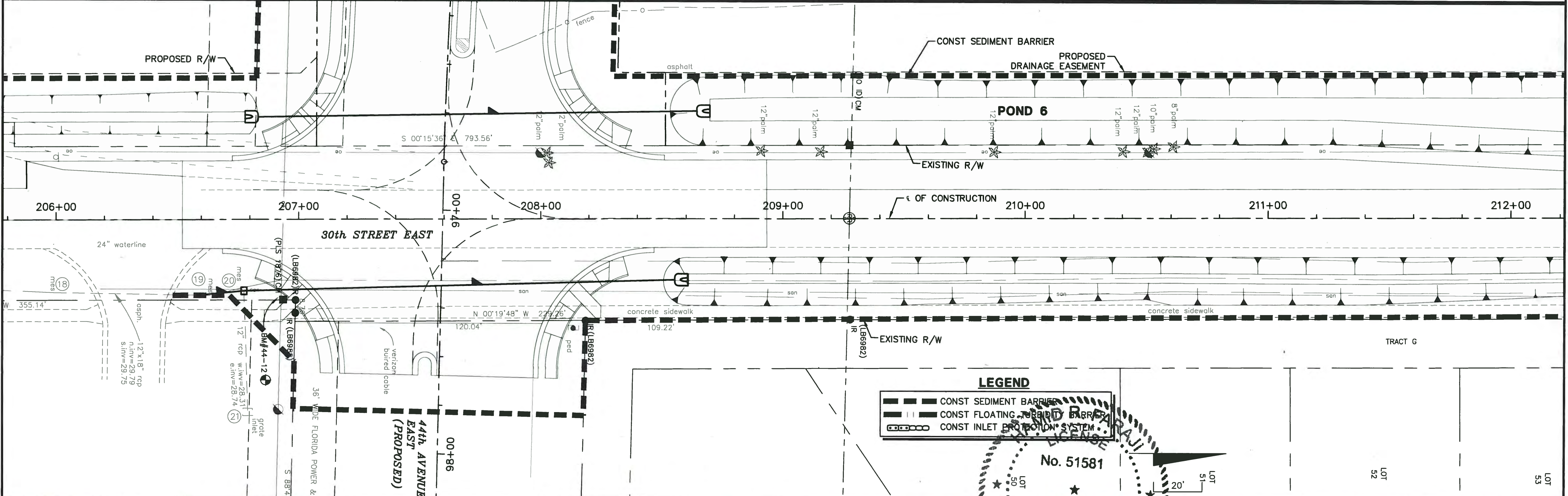
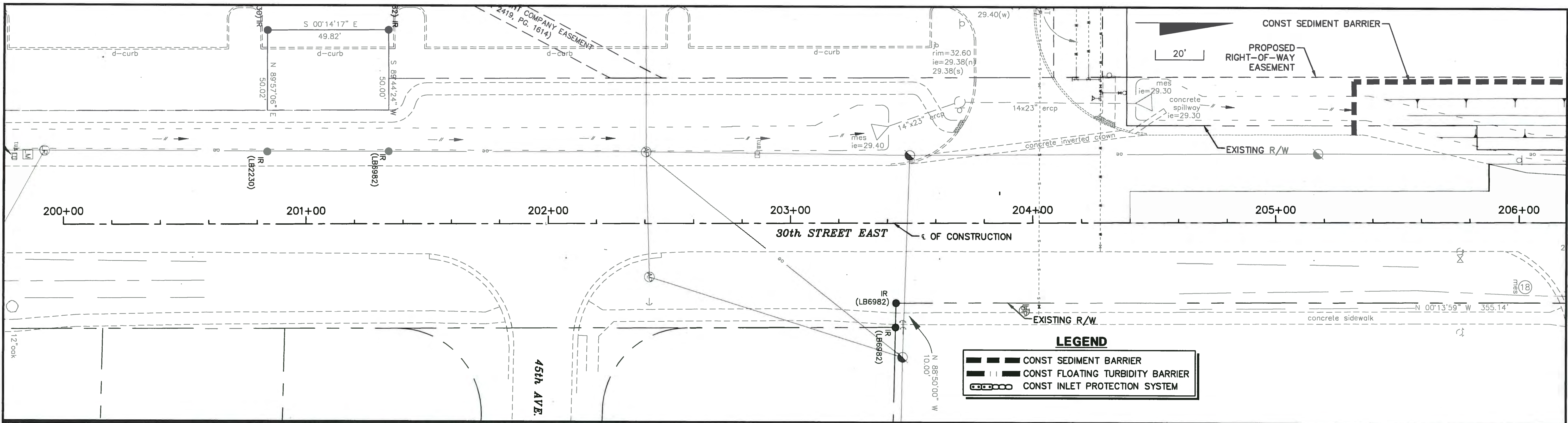
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DRAWN	JJH
Q.C.	
APPROVED	

HAMID R. FARAJI
LIC. NO.: 51581

**EROSION CONTROL PLAN
POND 5 / MITIGATION AREA**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	110



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44th AVENUE EAST
ROADWAY EXTENSION**


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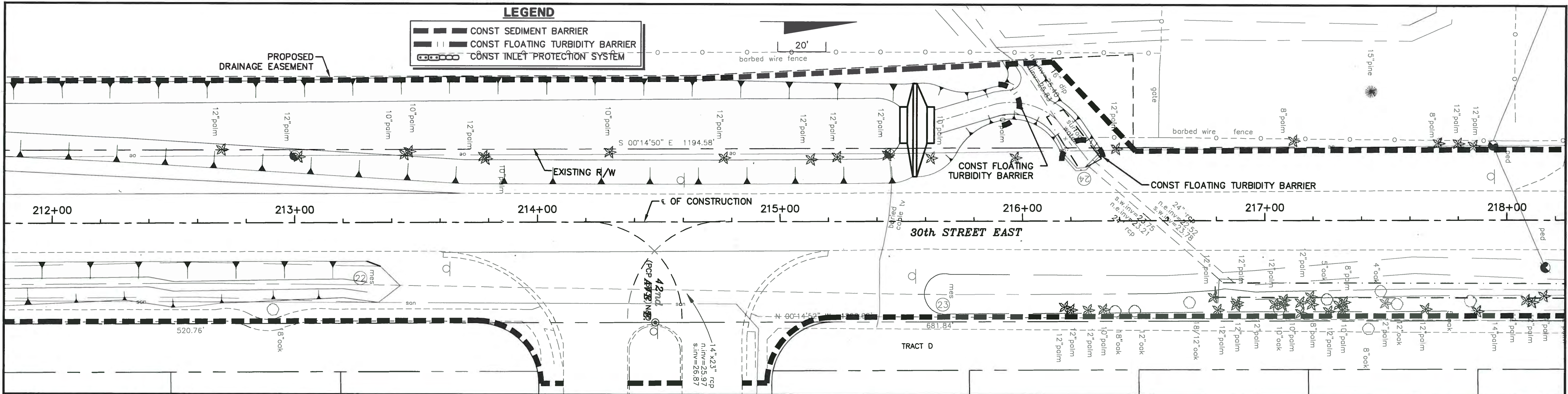
**EROSION CONTROL PLAN
30TH STREET EAST**

PROJECT NO:
00193-001-18
 DATE:
6-17-2015
 SHEET NO:
111

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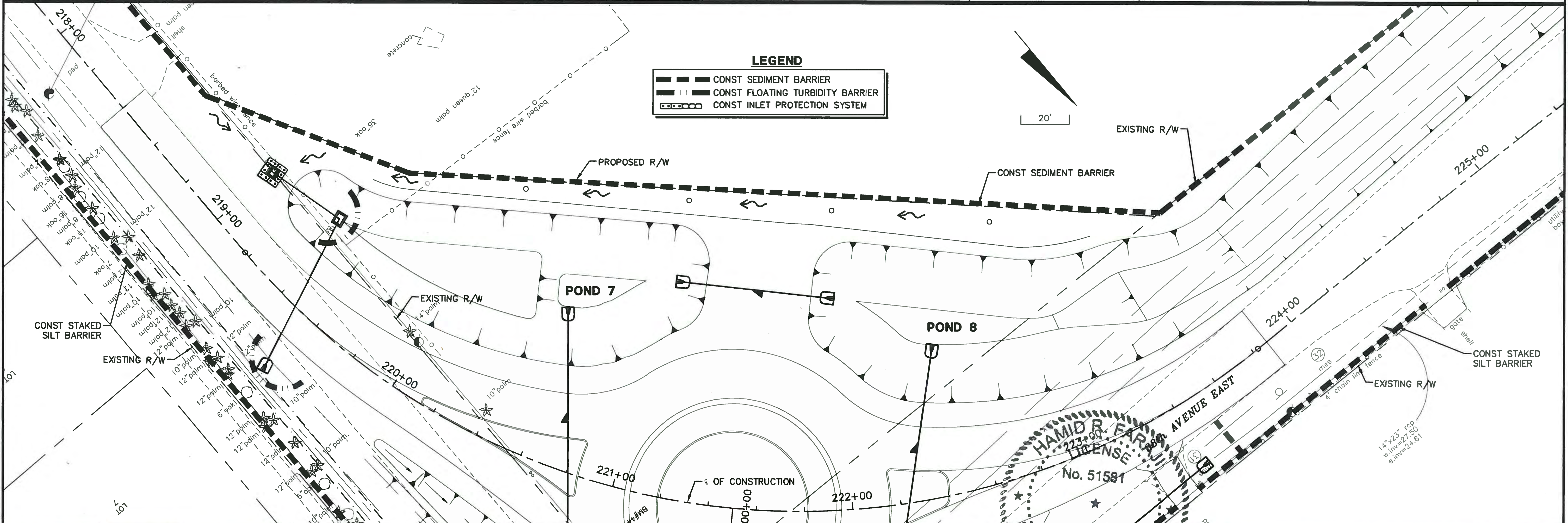
LEGEND

- CONST SEDIMENT BARRIER
- CONST FLOATING TURBIDITY BARRIER
- CONST INLET PROTECTION SYSTEM



LEGEND

- CONST SEDIMENT BARRIER
- CONST FLOATING TURBIDITY BARRIER
- CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

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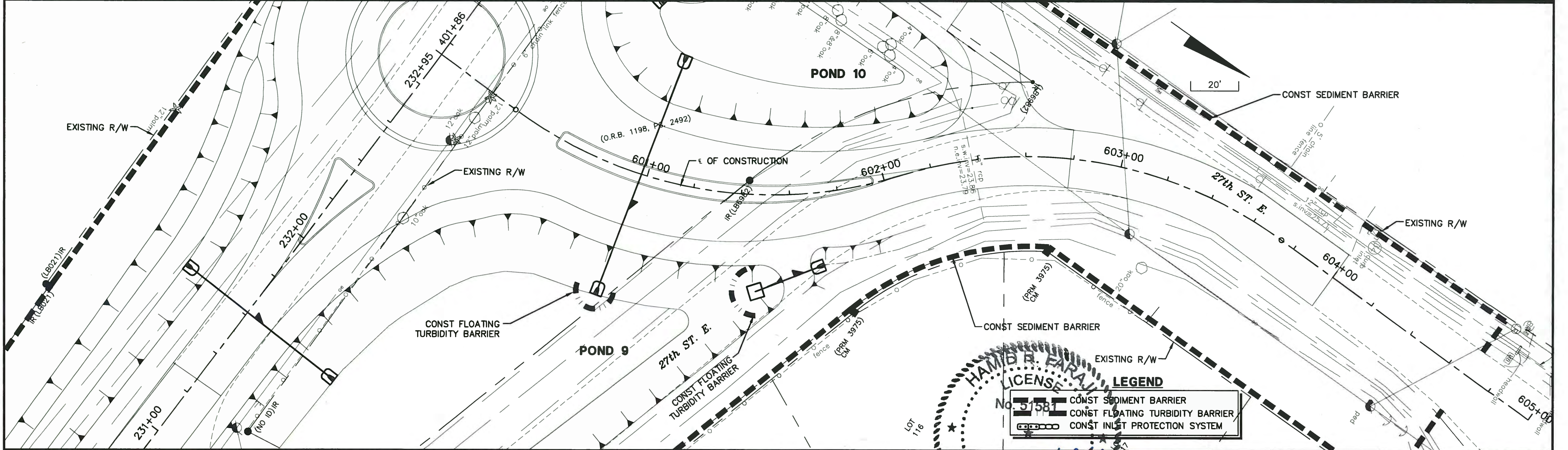
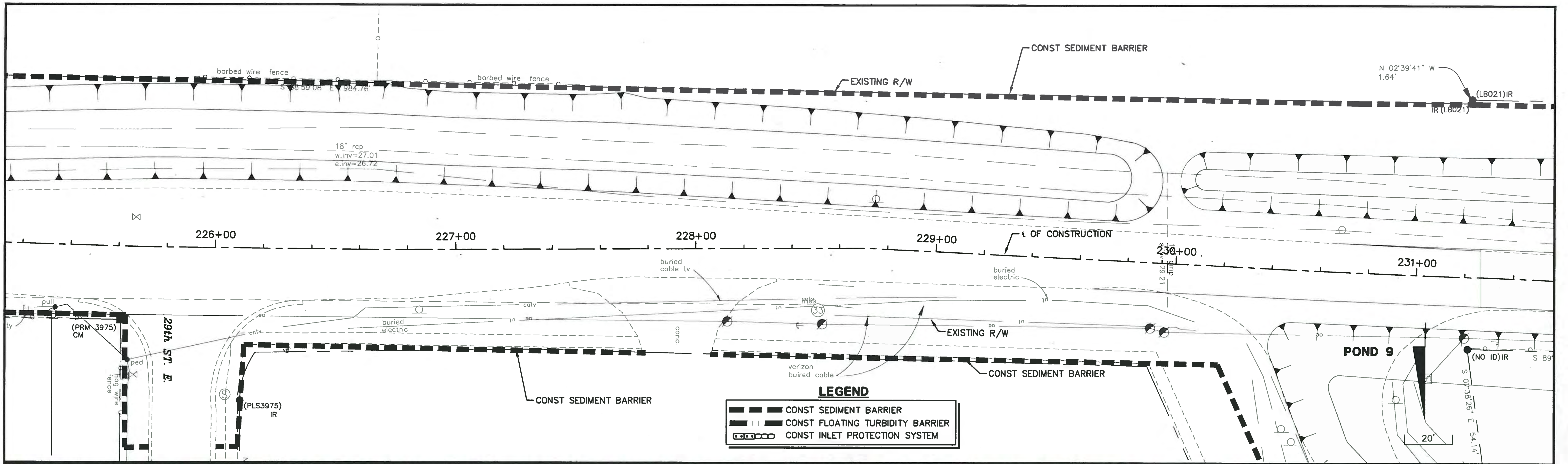
HAMID R. FARUK
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE No. 51581
DATE: 1/15/2015
LIC. NO. 15938

DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

**EROSION CONTROL PLAN
30TH STREET EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	112

FILE: J:\00193\00193001.18\ACAD\dwg\EC18300118-1.dwg LAST SAVED: Tue, 06/16/15 1:45p PLOTTED: Wed, 06/17/15 8:01a BY: John.Hutchison



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

Cardno Shaping the Future
 380 PARK PLACE BLVD, STE 300, CLEARWATER FL
 33759 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29915

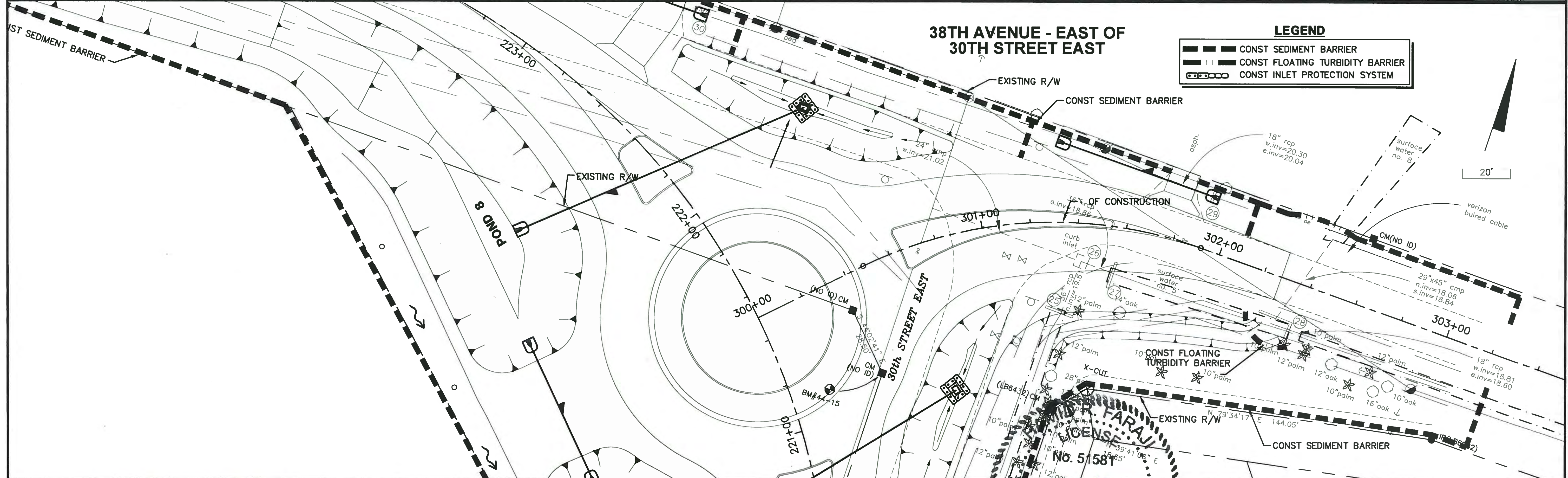
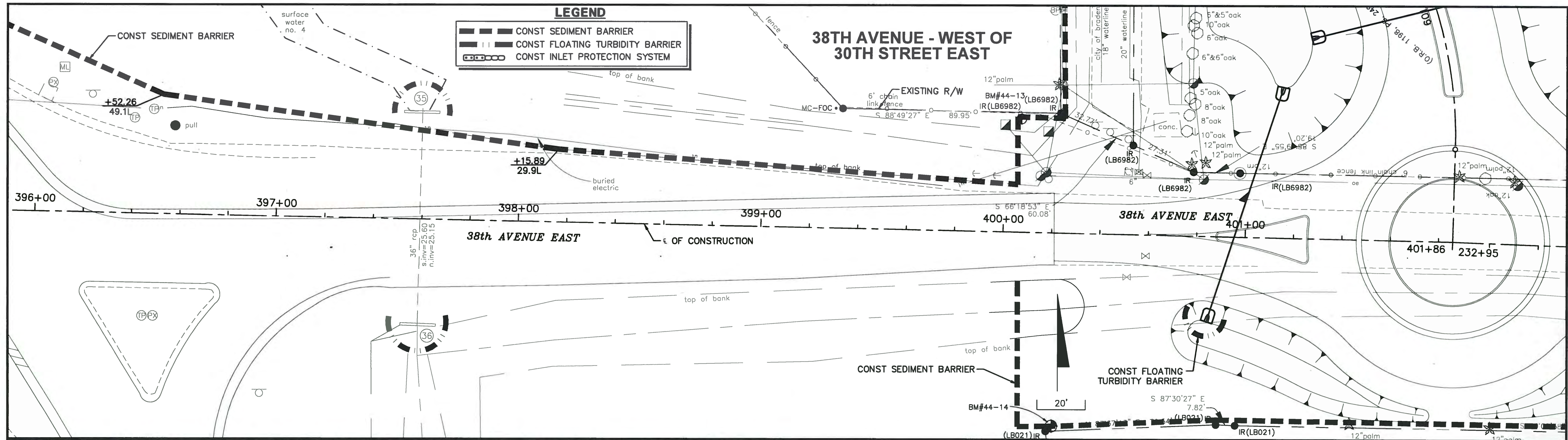
STATE OF FLORIDA
HAMID R. FARUJI
 LICENSED PROFESSIONAL ENGINEER
 No. 51581
 DATE 6/19/15

DESIGNED: HRF
 DRAWN: JJH
 Q.C.
 APPROVED:

**EROSION CONTROL PLAN
30TH STREET EAST**

PROJECT NO: 00193-001-18
 DATE: 6-17-2015
 SHEET NO: 113

FILE: J:\00193\00193001_18\ACAD\dwg\EC19300118-1.dwg LAST SAVED: Tue, 06/16/15 1:46p PLOTTED: Wed, 06/17/15 8:01a BY: John.Hutchison



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

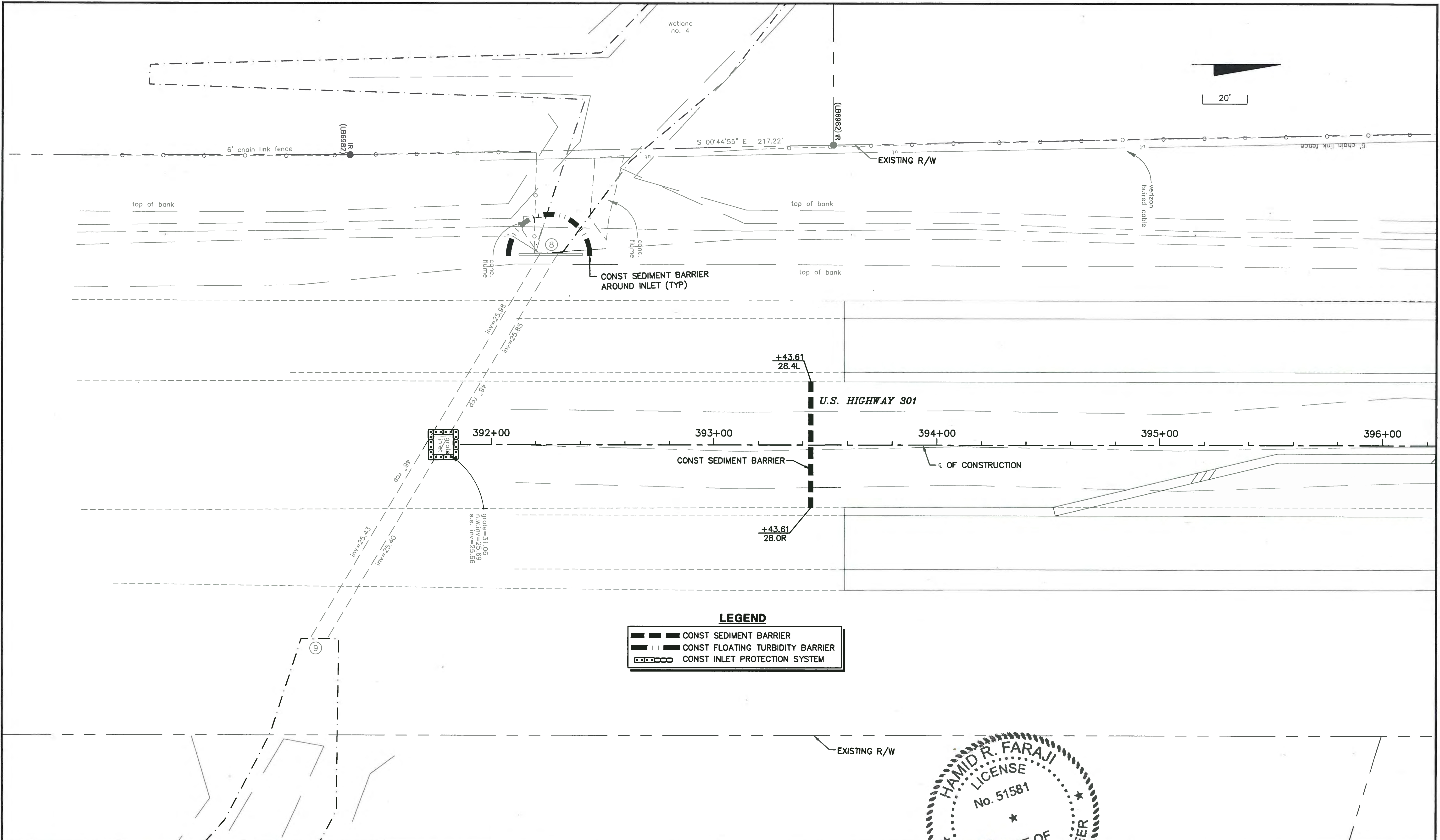
Cardno
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33759 TEL: (727) 531-3505 (800) 861-8314
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STATE OF FLORIDA
No. 51581
PROFESSIONAL ENGINEER

DESIGNED: HRF
DRAWN: JH
A.C.
APPROVED:

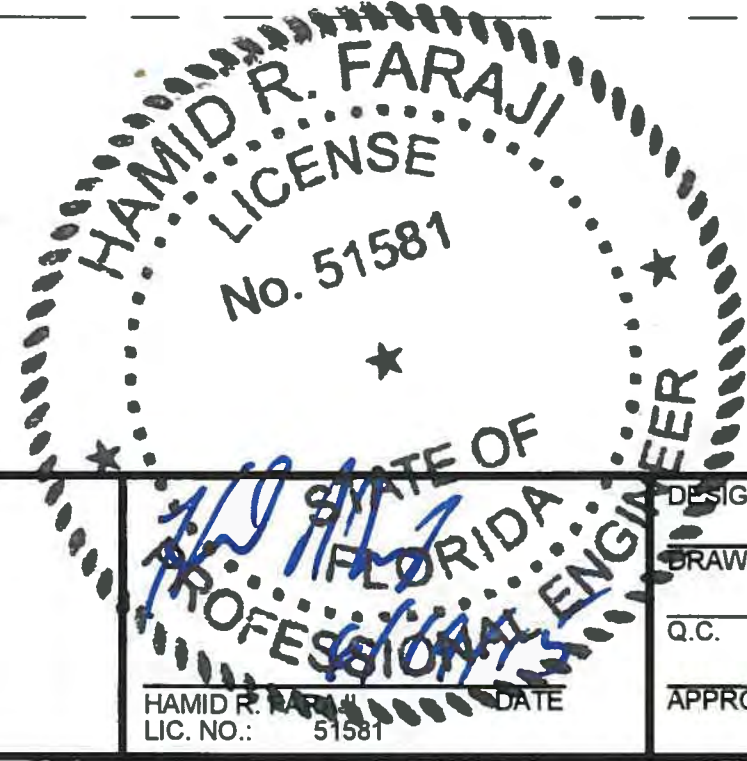
EROSION CONTROL PLAN

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
114



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

44TH AVENUE EAST ROADWAY EXTENSION

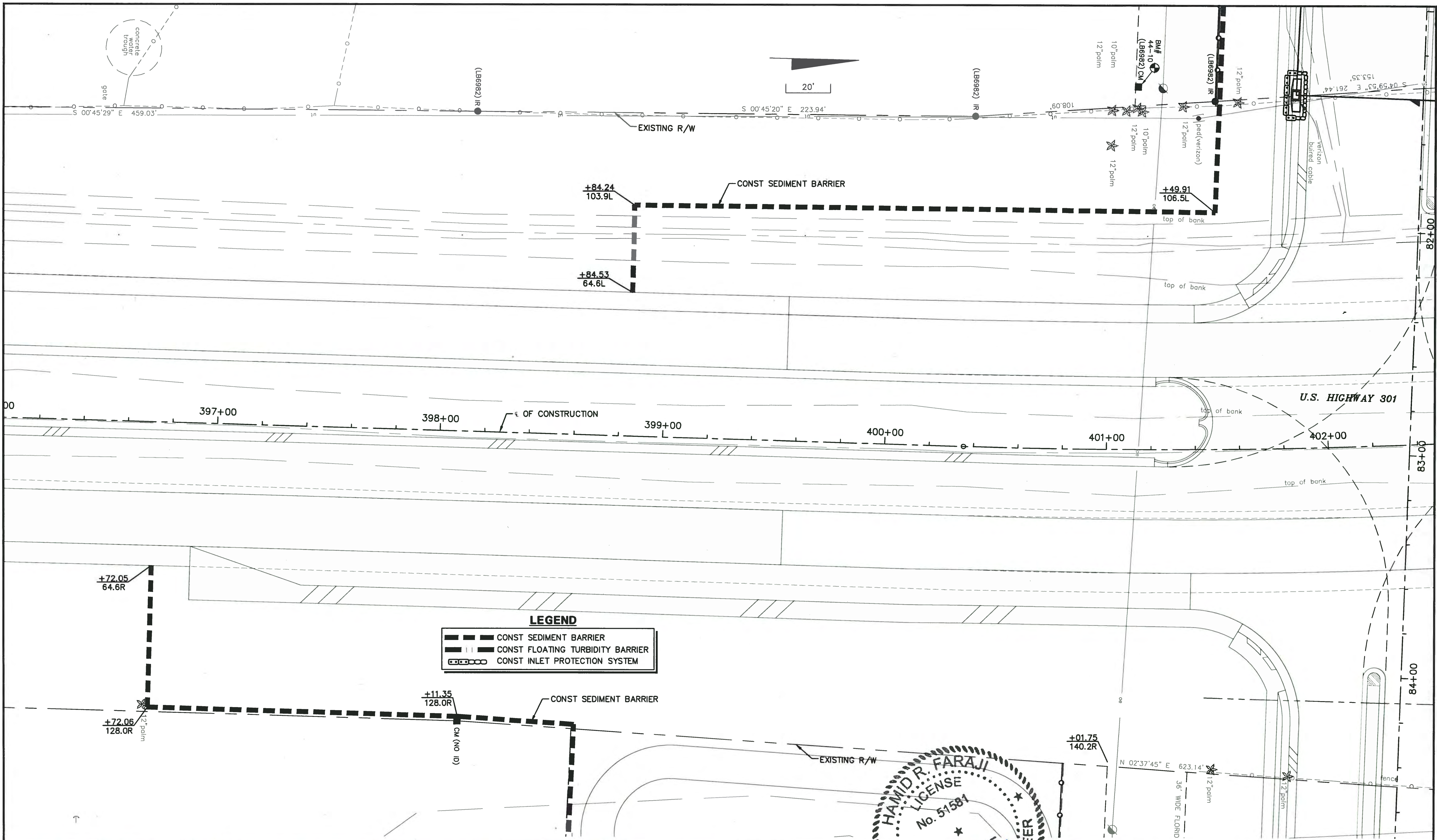
Cardno
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 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
 33759 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29915

DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	




**EROSION CONTROL PLAN
 US 301**

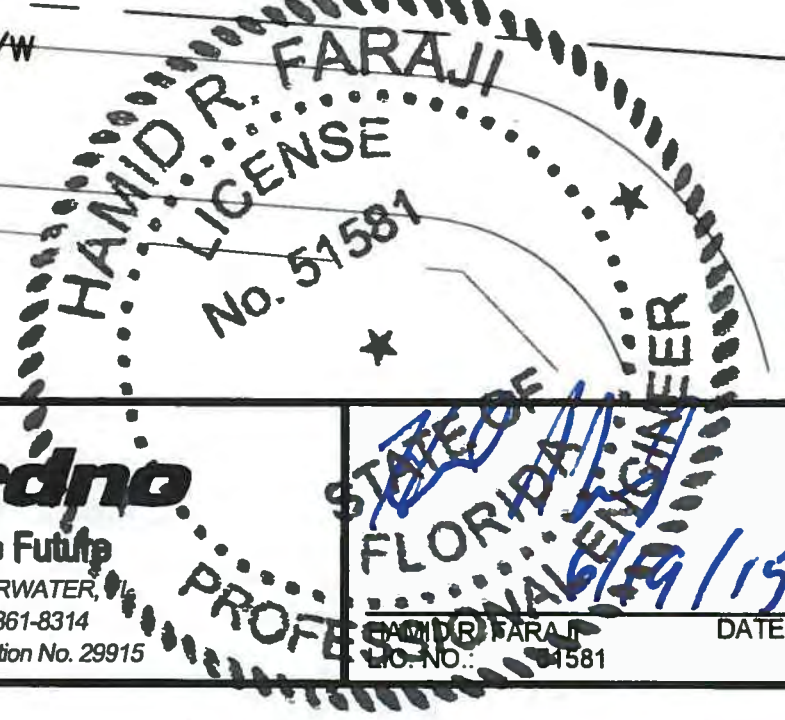
PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	116

FILE: J:\00193\00193001.18\ACAD\dwg\EC19300118-1.dwg LAST SAVED: Tue, 06/16/15-1:49p PLOTTED: Wed, 06/17/15-8:02a BY: John.Hutchison



LEGEND

-  CONST SEDIMENT BARRIER
-  CONST FLOATING TURBIDITY BARRIER
-  CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

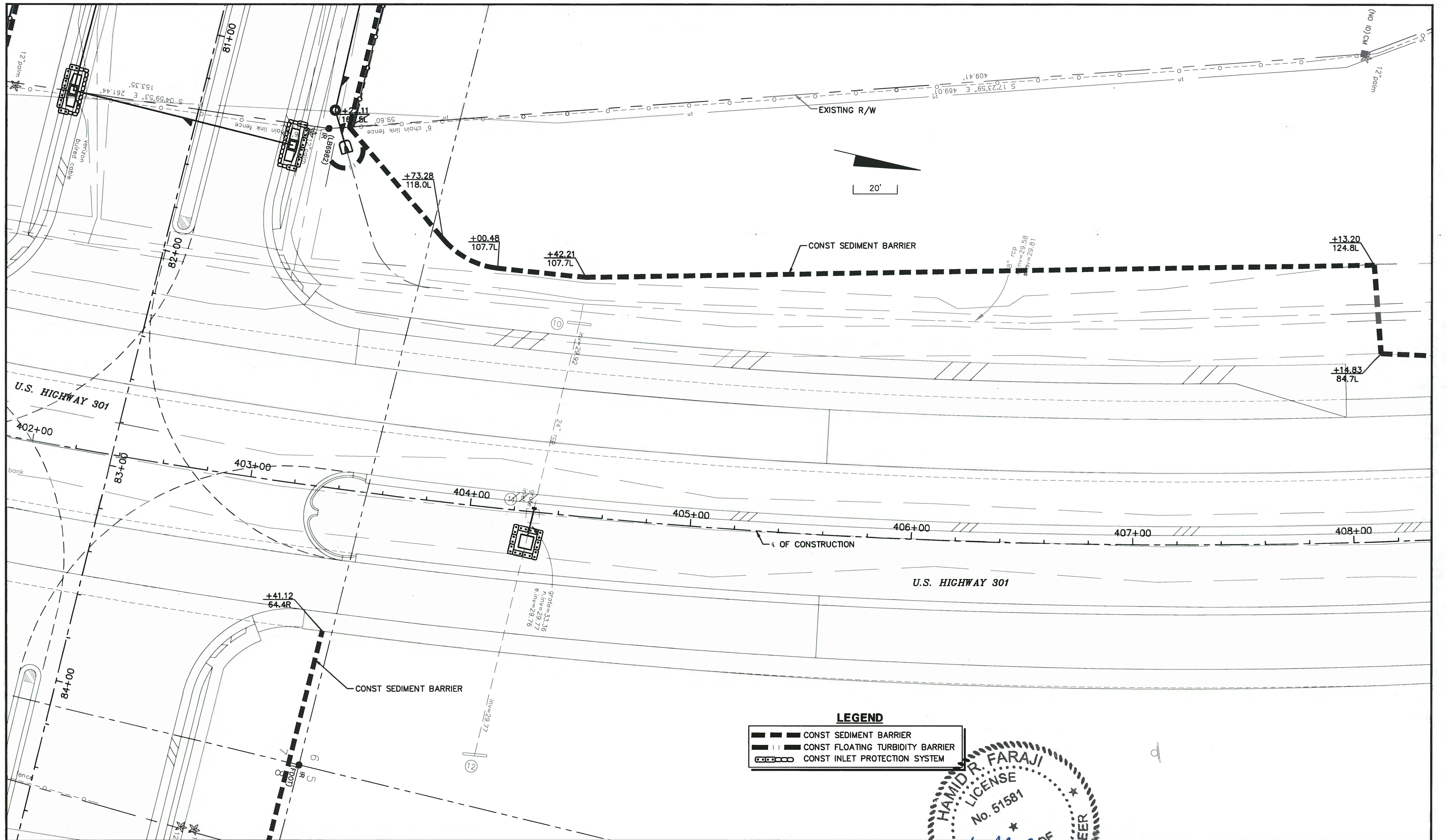
44TH AVENUE EAST ROADWAY EXTENSION

Cardno
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 34615
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 28915

DESIGNED: HRF
DRAWN: JJH
Q.C.:
APPROVED:

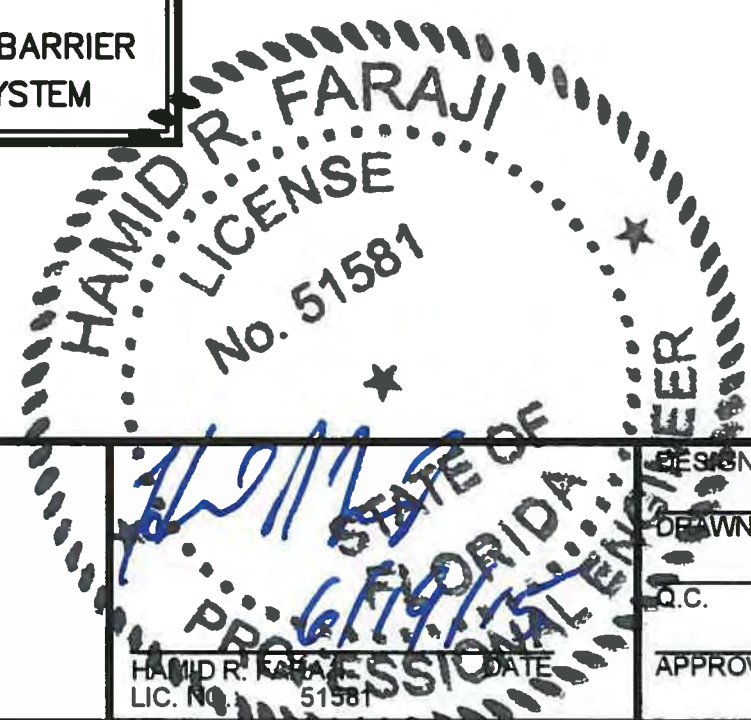
**EROSION CONTROL PLAN
US 301**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 117



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

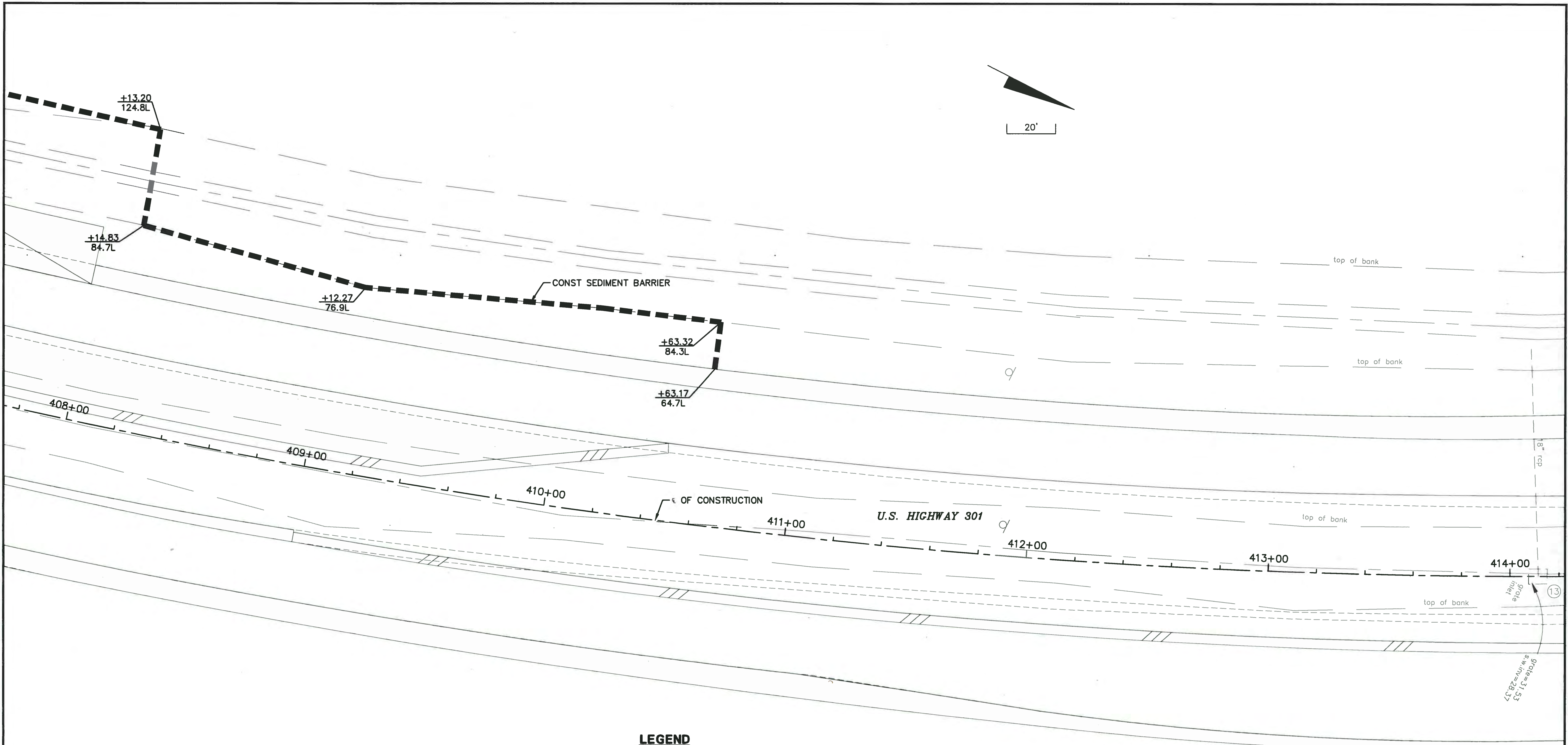
44TH AVENUE EAST ROADWAY EXTENSION

DESIGNED: HRF
 DRAWN: JJH
 DATE: 6-17-2015
 APPROVED: [Signature]

**EROSION CONTROL PLAN
 US 301**

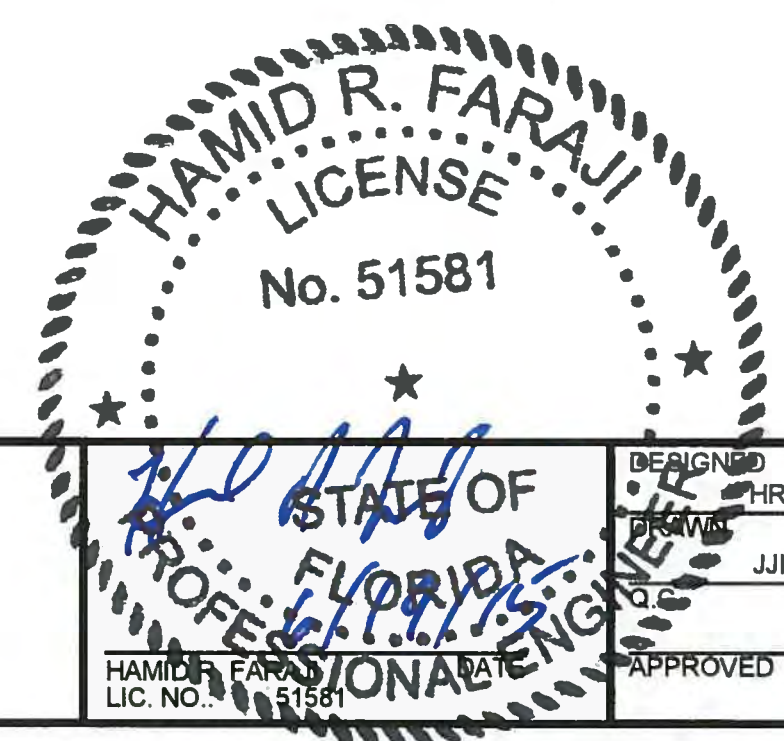
PROJECT NO: 00193-001-18
 DATE: 6-17-2015
 SHEET NO: 118

FILE: J:\00193\00193001.18\ACAD\dwg\EC19300118-1.dwg LAST SAVED: Tue, 06/17/15 8:02a BY: John Hutchison



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

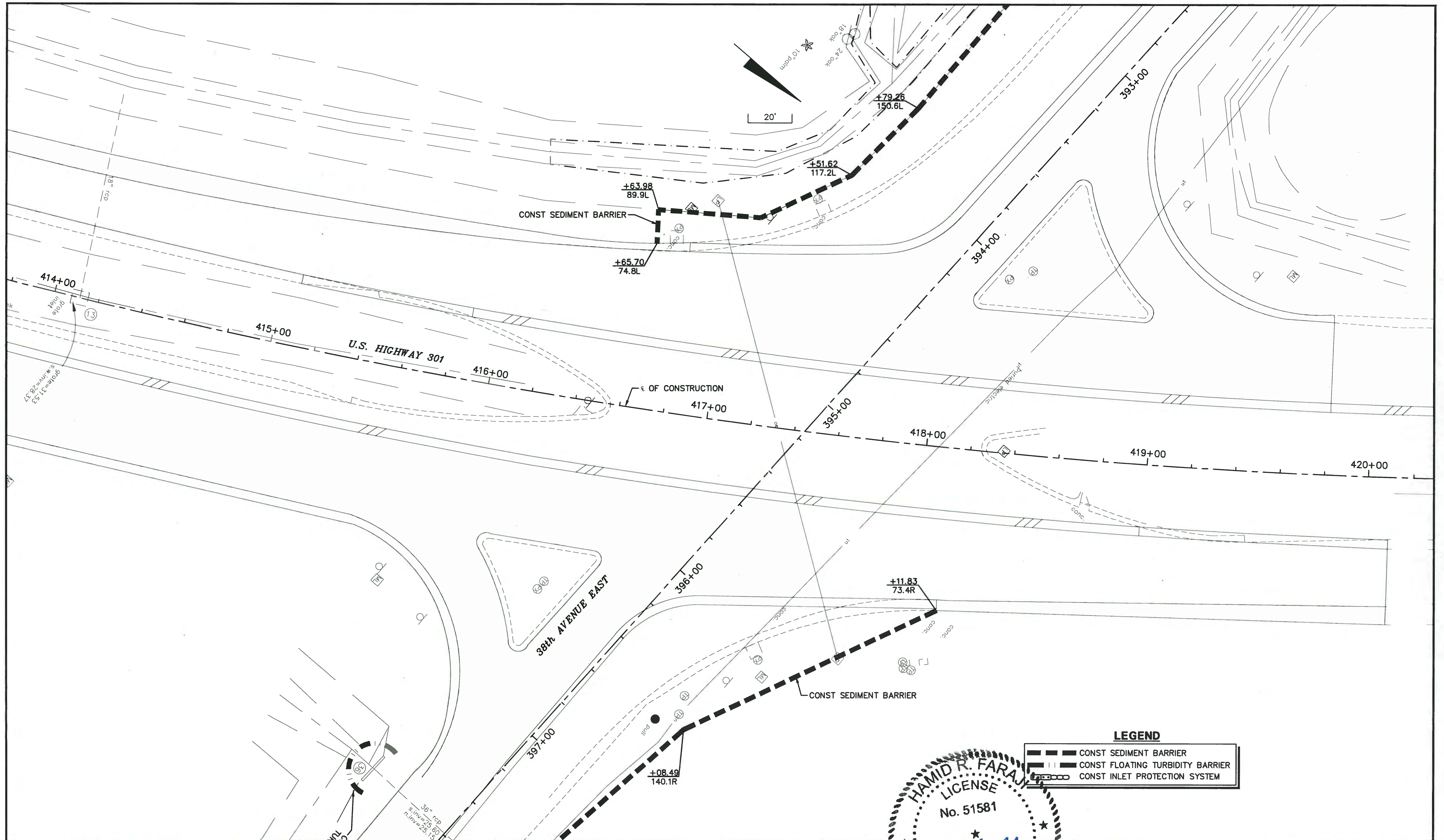
Cardno
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33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DESIGNED: HRF
DRAWN: JWH
CHECKED: JWH
APPROVED:

**EROSION CONTROL PLAN
US 301**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	119

FILE: J:\00193\00193001_18\ACAD\dwg\EC19300118-1.dwg LAST SAVED: Tue, 06/16/15-1:46p PLOTTED: Wed, 06/17/15-8:02a BY: John Hutchison



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

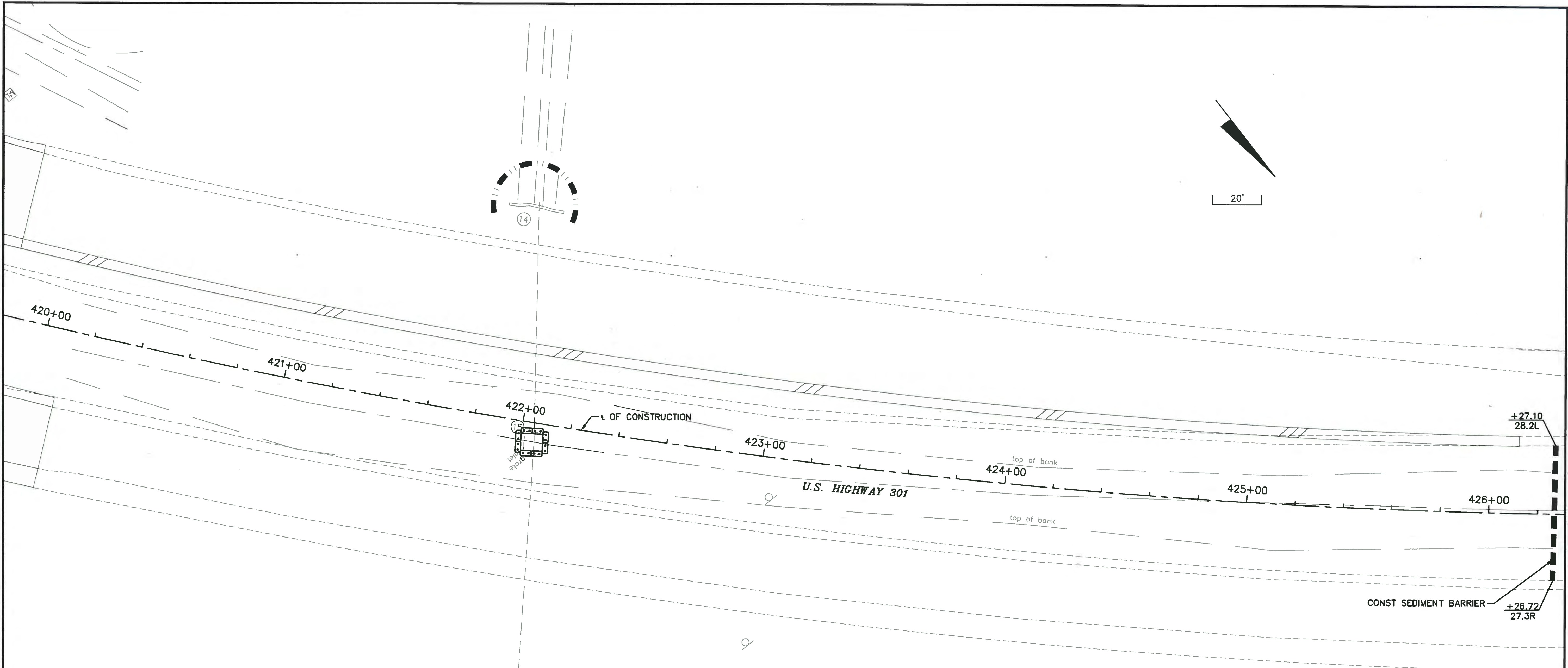
**44TH AVENUE EAST
ROADWAY EXTENSION**

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380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DESIGNED: HRF
DRAWN: JJH
Q.C.:
APPROVED:

**EROSION CONTROL PLAN
US 301**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 120



LEGEND

	CONST SEDIMENT BARRIER
	CONST FLOATING TURBIDITY BARRIER
	CONST INLET PROTECTION SYSTEM



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

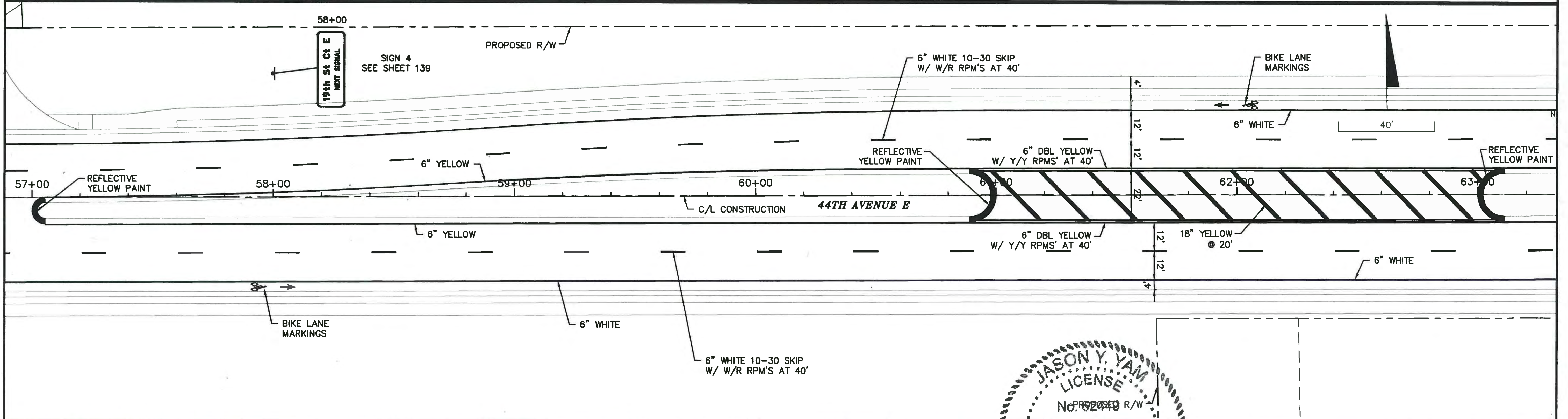
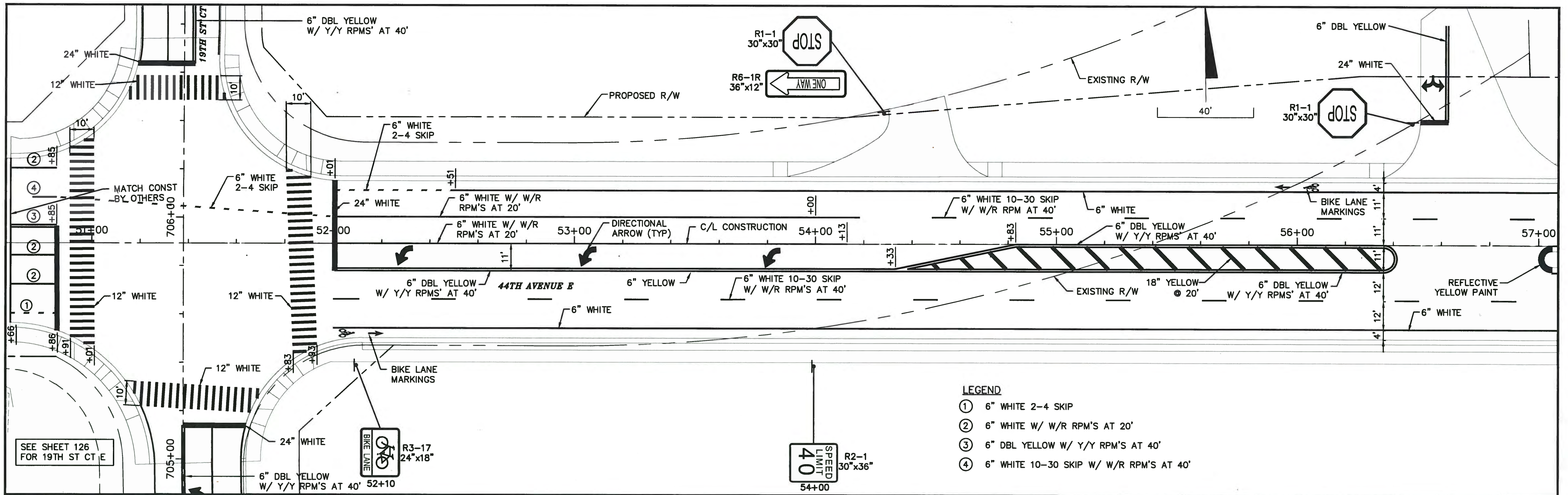

Cardno
 Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
 33759 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29915

DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

**EROSION CONTROL PLAN
US 301**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	121

FILE: J:\00193\00193001_18\ACAD\dwg\EC19300118-1.dwg LAST SAVED: Tue, 06/16/15 1:45p PLOTTED: Wed, 06/17/15 8:02a BY: John Hutchison



- LEGEND**
- ① 6" WHITE 2-4 SKIP
 - ② 6" WHITE W/ W/R RPM'S AT 20'
 - ③ 6" DBL YELLOW W/ Y/Y RPM'S AT 40'
 - ④ 6" WHITE 10-30 SKIP W/ W/R RPM'S AT 40'

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

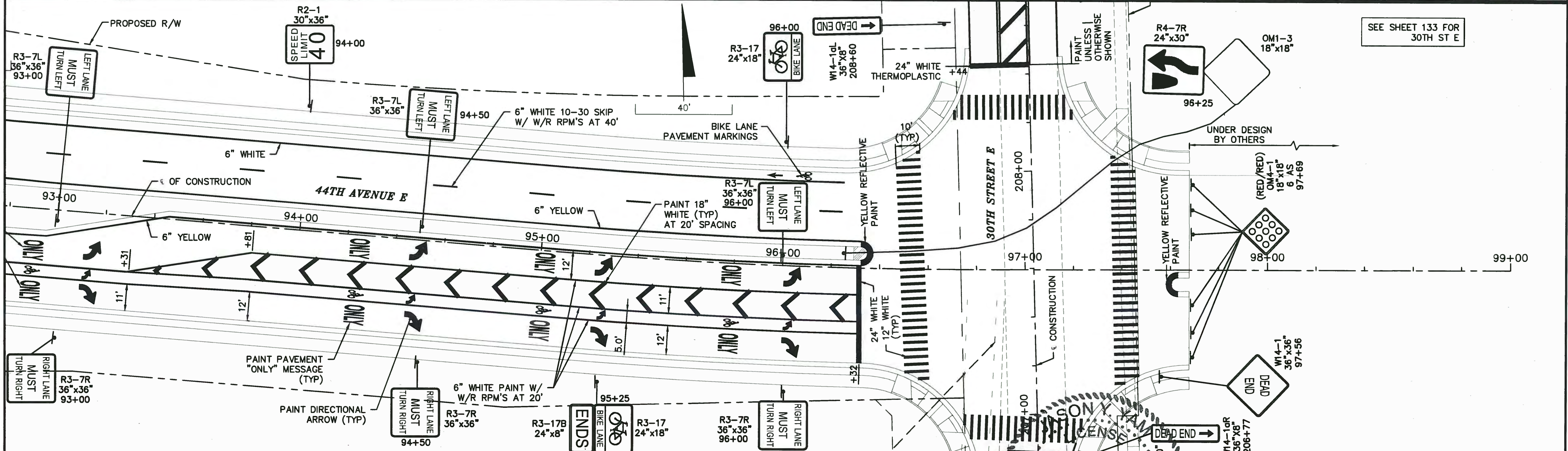
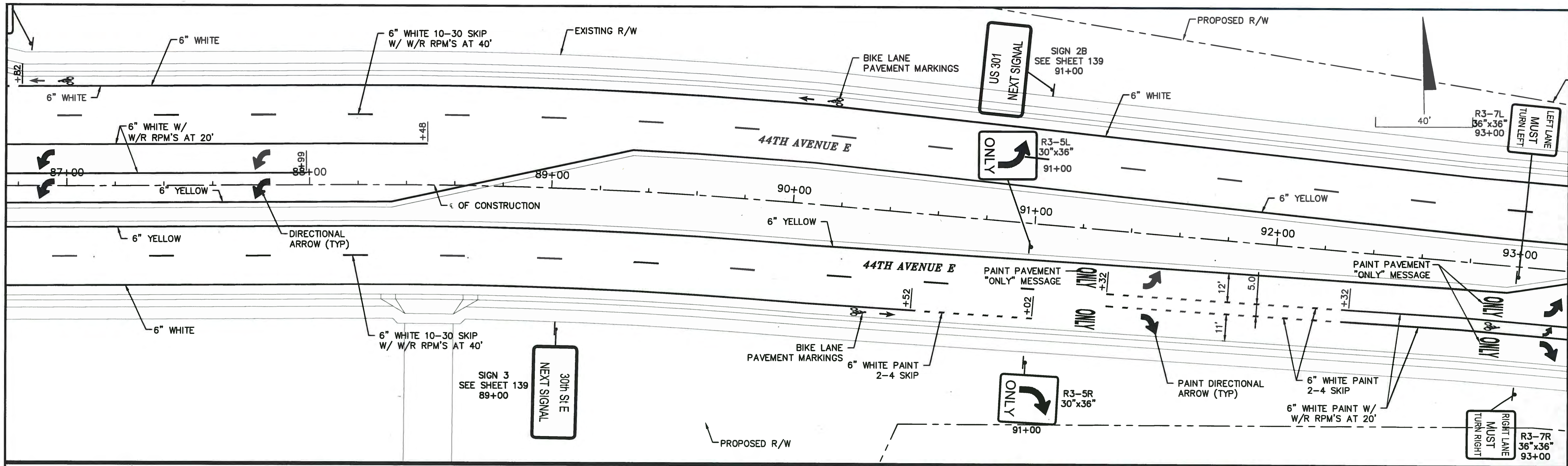
Cardno
Shaping the Future
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33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

JASON Y. YAM
LICENSE
No. 02440
PROFESSIONAL ENGINEER

DESIGNED SJS
DRAWN MMA
APPROVED

**SIGNING AND PAVEMENT
MARKING PLAN
44TH AVENUE EAST**

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
122



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

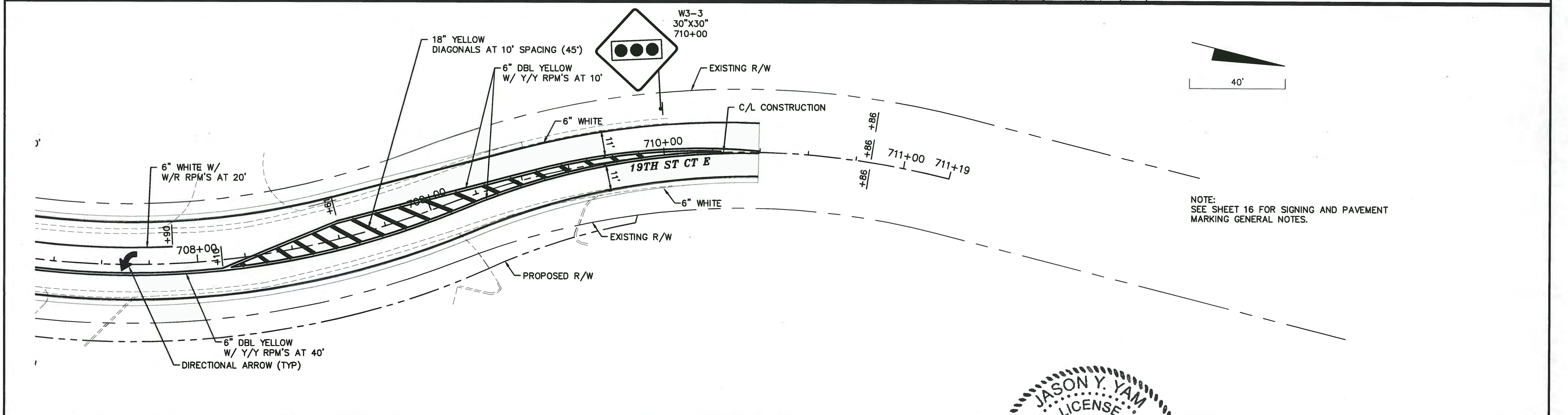
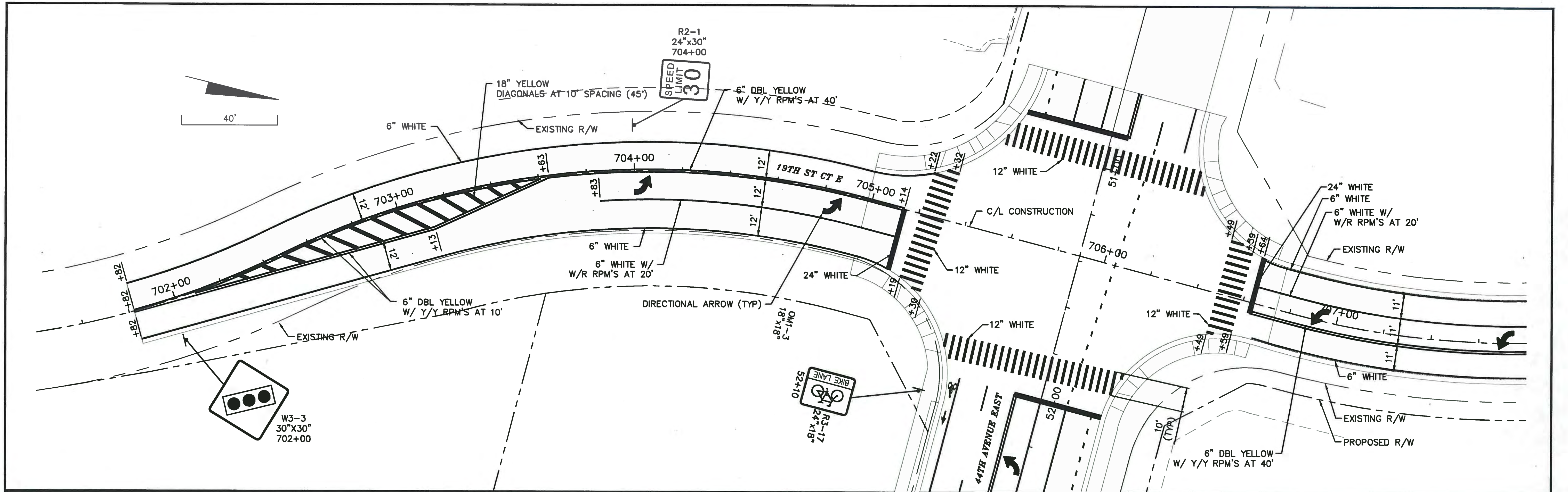

Cardno
 Shaping the Future
 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
 33759 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29915

DESIGNED: SJS
 DRAWN: MMA
 CHECKED: [Signature]
 APPROVED: [Signature]
 DATE: 6/18/15
 LICENSE NO. 62449
PROFESSIONAL ENGINEER
 STATE OF FLORIDA

**SIGNING AND PAVEMENT
MARKING PLAN
44TH AVENUE EAST**

PROJECT NO:
00193-001-18
 DATE:
6-17-2015
 SHEET NO:
125

FILE: J:\00193\00193001.18\ACAD\dwg\PM19300118-1.dwg LAST SAVED: Thu, 06/18/15 4:05p PLOTTED: Thu, 06/18/15 4:05p BY: John Hutchison



NOTE:
SEE SHEET 16 FOR SIGNING AND PAVEMENT
MARKING GENERAL NOTES.

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

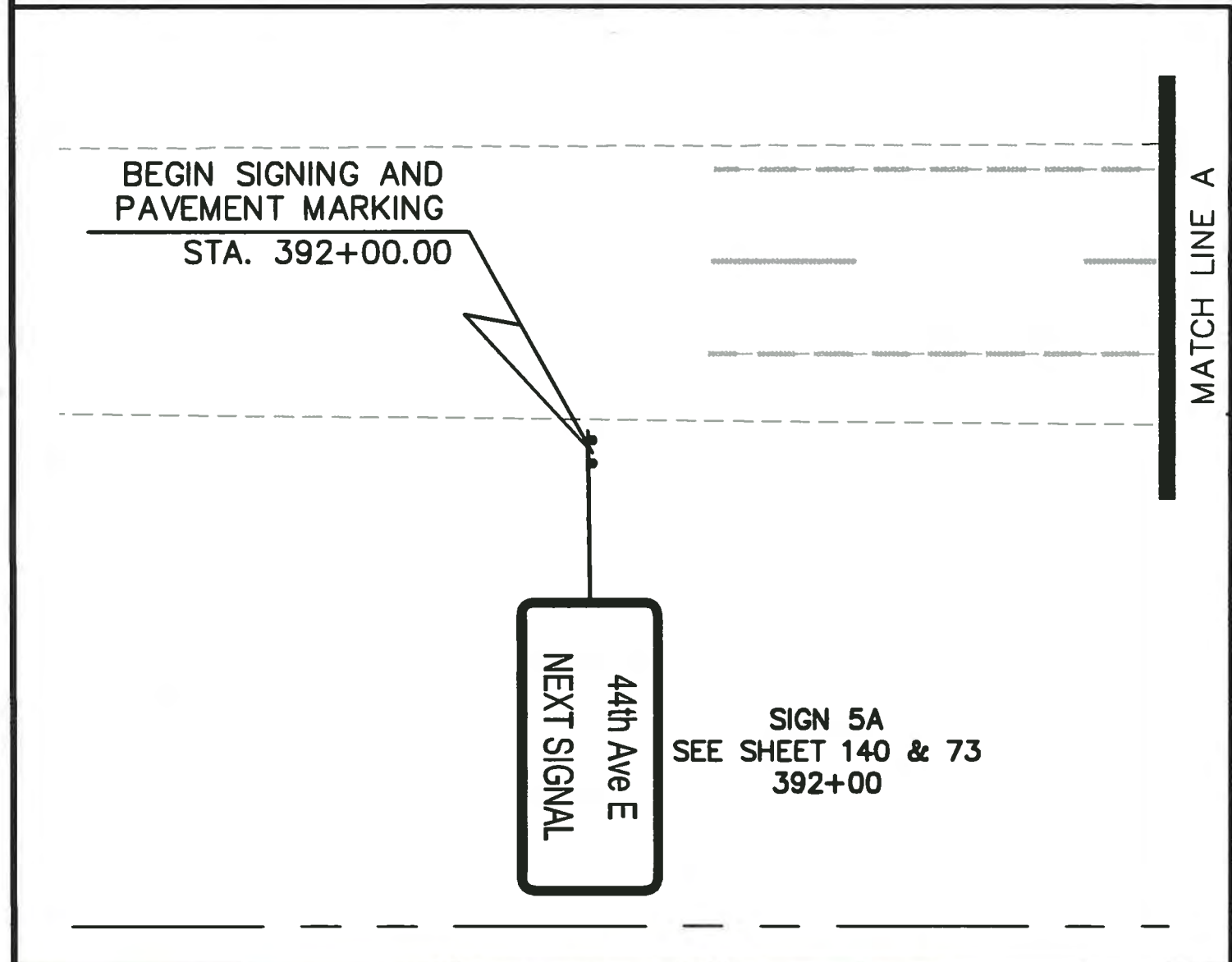
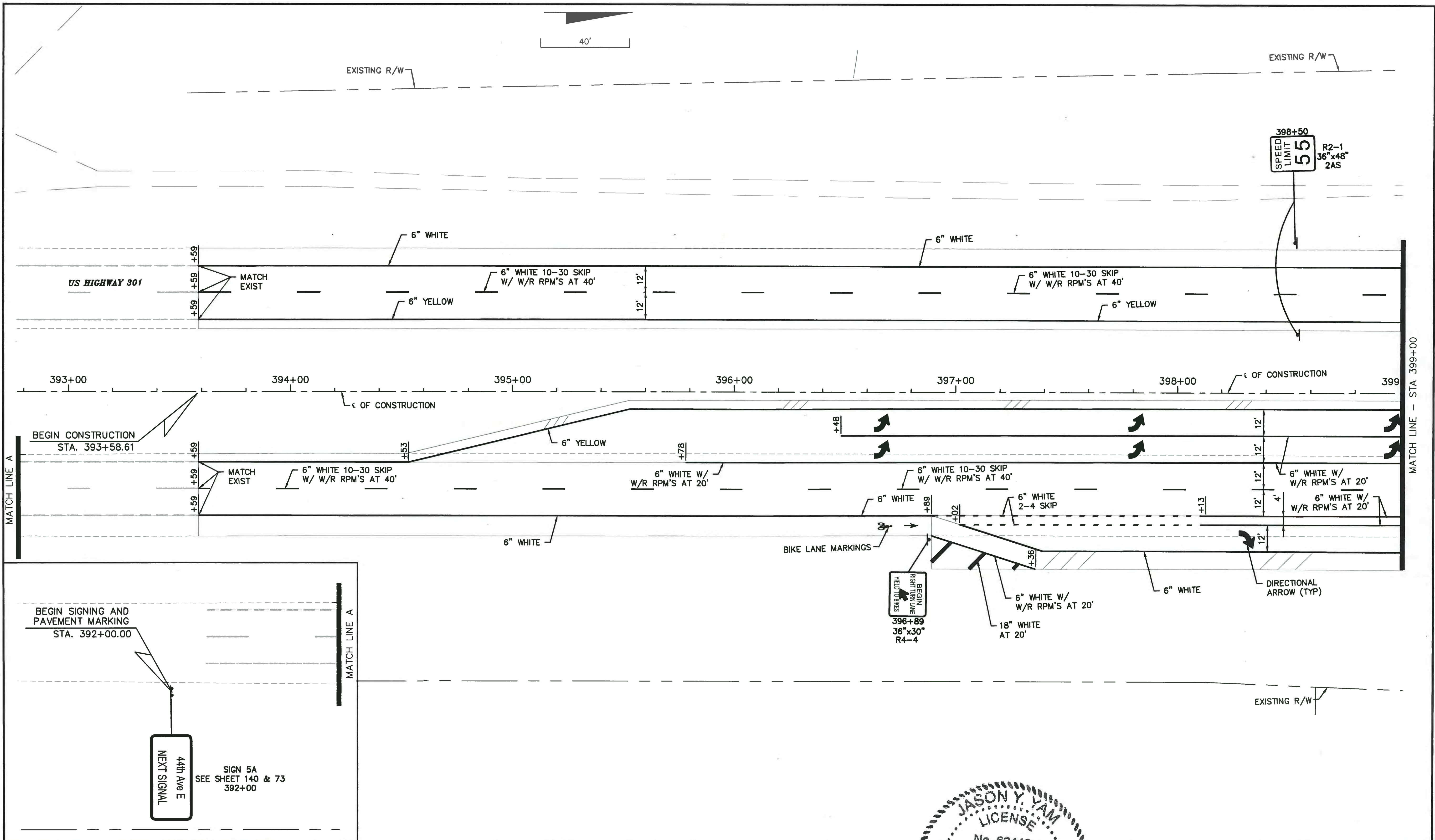
Cardno
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33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

DESIGNED: SJS
DRAWN: MMA
CHECKED: J.Y.
APPROVED: J.Y.
DATE: 6/17/15

JASON Y. YAM
LICENSE No. 62449
STATE OF FLORIDA
PROFESSIONAL ENGINEER

**SIGNING AND PAVEMENT
MARKING PLAN
19TH STREET COURT EAST**

PROJECT NO:
00193-001-18
DATE:
6-17-2015
SHEET NO:
126



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**


Cardno
 Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
 33759 TEL: (727) 531-3505 (800) 861-8314
 www.cardno.com Certificate of Authorization No. 29915

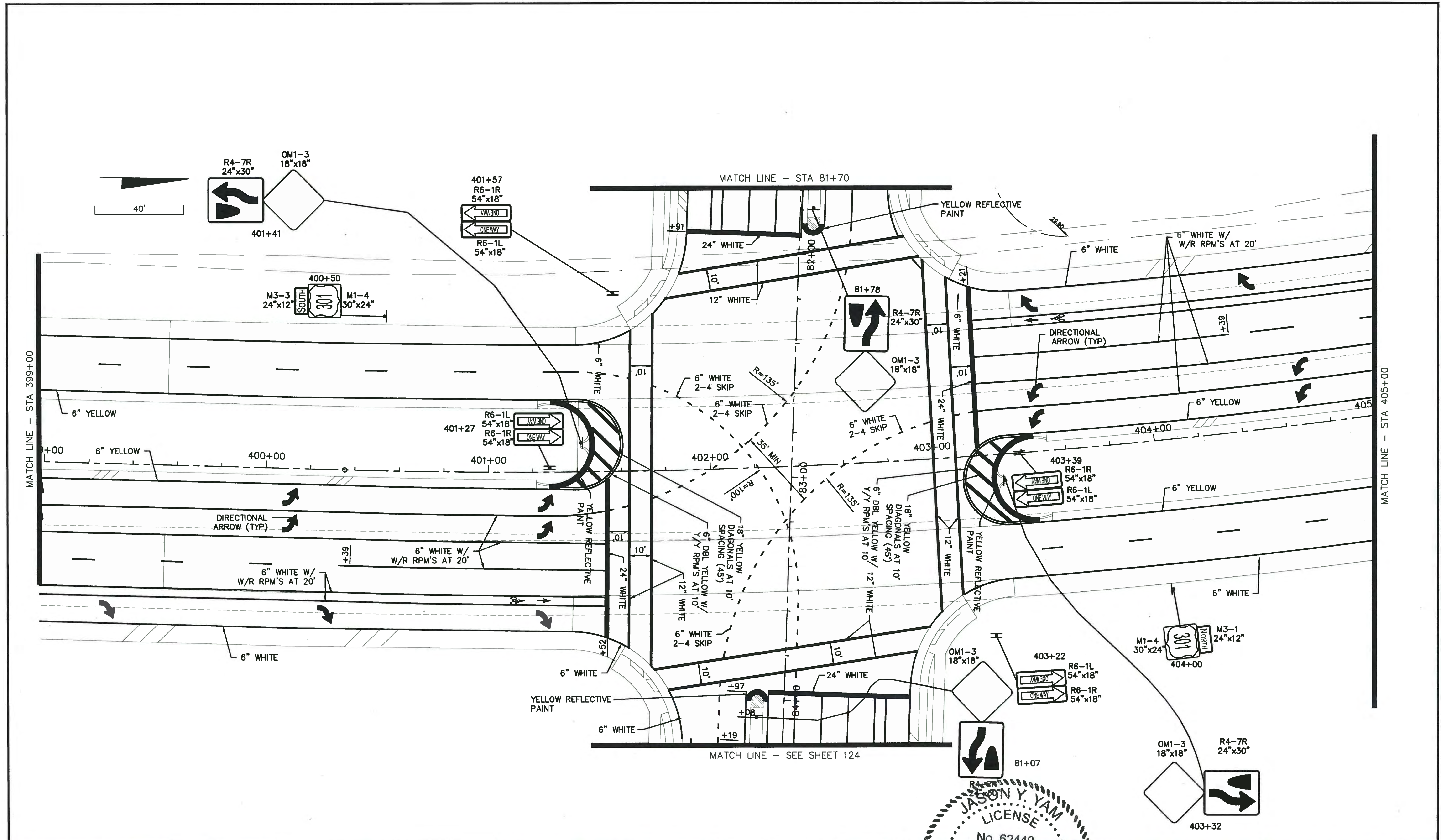
DESIGNED	SJS
DRAWN	MMA
CHECKED	
APPROVED	

**SIGNING AND PAVEMENT
MARKING PLAN**

US 301

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	127

FILE: J:\00193\00193001.18\ACAD\dwg\PM19300118-1.dwg LAST SAVED: Thu, 06/18/15 4:05p PLOTTED: Thu, 06/18/15 4:07p BY: John Hutchison

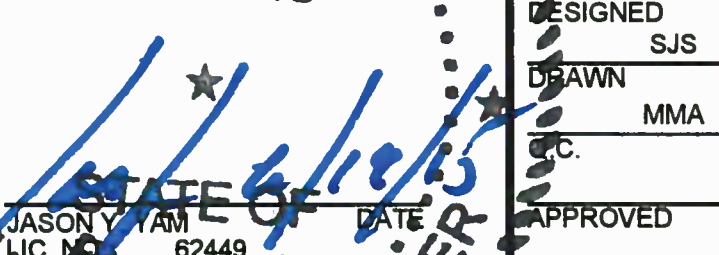


NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**


Cardno
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 www.cardno.com Certificate of Authorization No. 29915

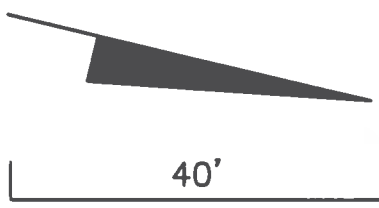

JASON Y. YAM
 LICENSE
 No. 62449
 PROFESSIONAL ENGINEER

**SIGNING AND PAVEMENT
MARKING PLAN**
US 301

PROJECT NO:
00193-001-18
 DATE:
6-17-2015
 SHEET NO:
128

FILE: J:\00193\00193001.18\ACAD\dwg\PM18300118-1.dwg LAST SAVED: Thu, 06/18/15 4:05p PLOTTED: Thu, 06/18/15 4:07p BY: John Hutchison

EXISTING R/W



407+98

BEGIN RIGHT TURN LANE YIELD TO BIKES

R4-4 36"x30"

6" WHITE W/ W/R RPM'S AT 20'

18" WHITE AT 20'

6" WHITE W/ W/R RPM'S AT 20'

DIRECTIONAL ARROW (TYP)

+47

6" WHITE 2-4 SKIP

BIKE LANE MARKINGS

DIRECTIONAL ARROW (TYP)

6" WHITE W/ W/R RPM'S AT 20'

6" WHITE 10-30 SKIP W/ W/R RPM'S AT 40'

6" WHITE

MATCH LINE - STA 405+00

MATCH LINE - STA 411+00

6" YELLOW

4'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

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12'

12'

12'

12'

12'

12'

12'

12'

6" WHITE 10-30 SKIP W/ W/R RPM'S AT 40'

R2-1 36"x48" SPEED LIMIT 55 406+00 2 AS

(REMOVE)

38th Ave E NEXT SIGNAL

US HIGHWAY 301

OF CONSTRUCTION

6" YELLOW

6" YELLOW

410+00

6" WHITE 10-30 SKIP W/ W/R RPM'S AT 40'

411+00

6" WHITE

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

44TH AVENUE EAST ROADWAY EXTENSION

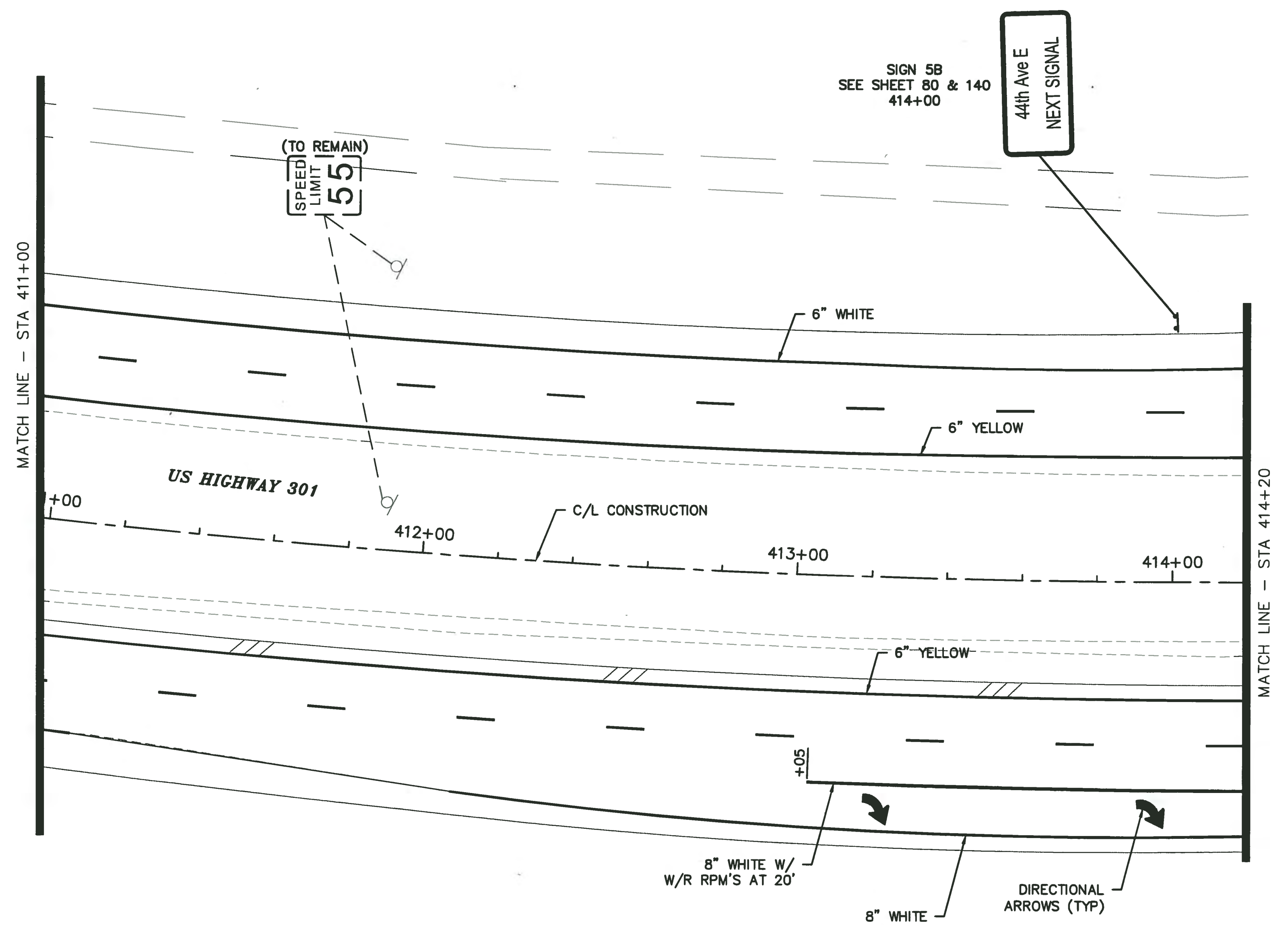
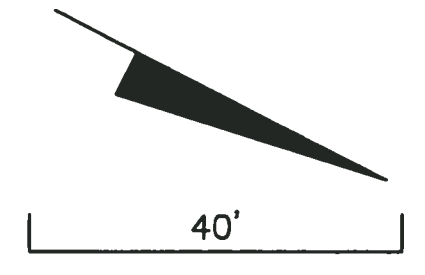
Cardno
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380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
33759 TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

JASON Y. YAM
LICENSE
No. 62449
DATE 6/15/15
PROFESSIONAL ENGINEER
FLORIDA

DESIGNED	SJS
DRAWN	MMA
CHECKED	
APPROVED	

SIGNING AND PAVEMENT MARKING PLAN
US 301

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	129



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

**44TH AVENUE EAST
ROADWAY EXTENSION**

380 PARK PLACE BLVD, STE 300, CLEARWATER, FL
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www.cardno.com Certificate of Authorization No. 29915



DESIGNED	SJS
DRAWN	MMA
Q.C.	
APPROVED	

**SIGNING AND PAVEMENT
MARKING PLAN
US 301**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	130