

NOTE:
NOT RELEASED FOR CONSTRUCTION UNLESS STAMPED "RELEASED
FOR CONSTRUCTION"

E1	EXISTING CONDITIONS PLAN
E2	SITE PLAN
E3	GRADING PLAN
E4	LONGITUDINAL SECTION
E5	CROSS SECTIONS
E6	CONSTRUCTION DETAILS
S1	STRUCTURAL SITE PLAN
S2	STRUCTURAL SECTIONS
S3	STRUCTURAL SECTIONS
S4	STRUCTURAL GENERAL NOTES

**SECTION 22-TOWNSHIP 35 SOUTH-RANGE 18 EAST
MANATEE COUNTY, FLORIDA**

C-1

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6106 E 63RD ST
LYING IN

Survey Area:

THAT PART OF NE 1/4 OF NE 1/4 OF SECTION 22, TOWNSHIP 35
SOUTH, RANGE 18 EAST LYING NORTH AND EAST OF BRADEN RIVER



NOTE: TO ADJUST ELEVATIONS FROM NGVD '29 AS DISPLAYED HEREON TO THE (NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88')) A FACTOR OF $-0.98'$ SHOULD BE APPLIED. THIS FACTOR IS FROM THE VERTCON CONVERSION PROGRAM AT WWW.NGS.NOAA.GOV/TOOLS/VERTCON/VERT_METHOD.HTML FOR THE LATITUDE N 27°25'55", LONGITUDE W 82°28'52" OF THE SURVEY AREA.

4. THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 AND 2 OF 2.

6. HAVING CONSIDERED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 120153 0365 C, EFFECTIVE DATE JULY 15, 1982, MANATEE COUNTY, THE SUBJECT PROPERTY APPEARS TO BE IN ZONE AE, SITE TO LIE ALONG GROSS CREEK, AND THEREFORE THE BASE FLOOD WATER SURFACE ELEVATION IS 9.5' MVD -79' AND 10' ON FLOWWAY DATA - BRADEN RIVER, LOWER CASE. ON 04-04-357P-120153, EFFECTIVE MAY 8, 2005 THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.
7. THE APPARENT USE OF THE LAND, AS CLASSIFIED BY THE MINIMUM TECHNICAL STANDARDS RULE CHAPTER 59-1, FLORIDA ADMINISTRATIVE CODE ESTABLISHES THAT THE MINIMUM RELATIVE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY MEET THE HORIZONTAL CONTROL ACCURACY OF 1"/10,000 FEET FOR A HIGH RISK SURVEY. THE MEASUREMENTS AND CALCULATIONS OF THE CLOSED GEOMETRIC FIGURES WERE FOUND TO MEET THIS ACCURACY. REPEAT THE SURVEY OF THE BOUNDARY TO VERIFY THE HORIZONTAL CONTROL ON THE SUBJECT PROPERTY WAS A TOPCON TOTAL STATION MODEL# GPT-3005.





8. HORIZONTAL WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF .02 (FT). THE EQUIPMENT USED TO LOCATE THE FEATURES WAS A TOPCON TOTAL STATION MODEL # GPT-3005.
9. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR OPINION OF TITLE. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS NOTED.
10. NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
11. FENCES EXISTING ON, OVER OR ADJACENT TO SUBJECT PROPERTY, ARE DISPLAYED HEREON; OWNERSHIP WHETHER SINGULAR OR JOINT WAS NOT DETERMINED BY THIS SURVEY.
12. DIMENSIONS ARE SHOWN RELATIVE TO UNITED STATES STANDARD FEET AND DECIMALS THEREOF.
13. THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL WETLAND BOUNDARIES.

A/C	- ACTUAL	MLP	- METAL LIGHT POLE
A/C	- AIR CONDITIONER	MPH	- MILES PER HOUR
ACSM	- AMERICAN CONGRESS ON SURVEYING & MAPPING	MPP	- METAL POWER POLE
ADA	- AMERICANS WITH DISABILITIES ACT	N/A	- NOT APPLICABLE
ALTA	- AMERICAN LAND TITLE ASSOCIATION	NAVD	- NORTH AMERICAN DATUM
APPROX	- APPROXIMATE	NG	- NORTH AMERICAN DATUM
ARV	- AIR RELEASE VALVE	NAD	- NATURAL GRAOUND
AVE	- AVERAGE	NGS	- NATIONAL GEODETIC SURVEY
AVG	- AVERAGE	NGVD	- NATIONAL GEODETIC VERTICAL DATUM
(BB)	- BEARING BASIS	N & D	- NAIL AND DISK
BFP	- BACK FLOW PREVENTER	NO.	- NUMBER
BK	- BLOCK	NR	- NON-RADIAL
BLDG	- BUILDING	NSPS	- NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
BLVD	- BOULEVARD	NT	- NON-TANGENT
BM	- BENCH MARK	NTS	- NOT TO SCALE
BOR	- BACK OF CURB	OD	- OUTSIDE DIAMETER
BSL	- BUILDING SETBACK LINE	ORB	- OFFICIAL RECORDS BOOK
BWF	- BARBED WIRE FENCE	OR	- OFFICIAL RECORDS
C-X	- DENOTES SHEET NUMBERING FOR ENGINEERING PLANS	ORL	- OVERHEAD UTILITY LINES
(C)	- CATCH	OTL	- OVERHEAD TRAFFIC LINES
CATV	- CABLE TELEVISION RISER	(P)	- PLAT
CB	- CHORD BEARING	PB	- PLAT BOOK
CBS	- CONCRETE BLOCK STRUCTURE	PC	- POINT OF CURVATURE
C & G	- CURB & GUTTER	PCP	- POINT OF COMPOUND CURVATURE
CI	- CATCH INLET	PP	- PERMANENT CONTROL POINT
C/L	- CENTERLINE	PFF	- PROPOSED FINISHED FLOOR
CLF	- CHAIN LINK FENCE	PG	- PAGE
CM	- CONCRETE MONUMENT	PAGES	- PAGES
CMP	- CORRUGATED METAL PIPE	PI	- POINT OF INTERSECTION
CO	- CLEANOUT	PK	- PARKER KAYLON
CONC	- CONCRETE	POL	- POINT OF BEGINNING
COR	- CORNER	POC	- POINT OF COMMENCEMENT
OPP	- CORRUGATED PLASTIC PIPE	PON	- POINT ON LINE
CUE	- COUNTY UTILITY EASEMENT	PP	- POWER POLE
CWS	- CROSSWALK SIGNAL	PRC	- POINT OF REVERSE CURVATURE
Δ	- DELTA	PRM	- PERMANENT REFERENCE MONUMENT
D	- DESCRIPTION	PSM	- PROFESSIONAL SURVEYOR & MAPPER
DB	- DEED BOOK	PT	- POINT OF TANGENCY
DBH	- DIAMETER AT BREAST HEIGHT IN INCHES	PVC	- POLYVINYL CHLORIDE PIPE
DE	- DRAINAGE EASEMENT	PVMT	- PAVEMENT
DEPT	- DEPARTMENT	R1E	- RANGE 18 EAST
DIP	- DIPOLE IRON PIPE	R	- RADIUS
DR	- DRIVE	RAD	- RADIAL
D/U	- DRAINAGE AND UTILITY EASEMENT	REC	- REINFORCED CONCRETE PIPE
(E)	- ENGINEERING PLAN	REC	- RECOVERED
EJB	- ELECTRIC JUNCTION BOX	REV	- REVISION
ELEC	- UNDERGROUND ELECTRICAL LINES	R/P	- RADIUS POINT
ELEV	- ELEVATION	R/W	- RIGHT-OF-WAY
ELLIP	- ELLIPTICAL	R/LS	- REGISTERED LAND SURVEYOR
EOP	- EDGE OF PAVEMENT	R	- RADIUS POINT
FB	- FIELD BOOK	RWL	- UNDERGROUND RECLAIM WATER LINE
FDOT	- FLORIDA DEPARTMENT OF TRANSPORTATION	RWM	- RECLAIMED WATER METER
FI	- FINISH FLOOR	SE	- SPECIAL EASEMENT
FG	- FLAT GRATE INLET	SEC 22	- SECTION 22
FGLP	- FIBERGLASS LIGHT POLE	SM	- SANITARY SEWER MANHOLE
FM	- FIRE HYDRANT	SQ	- SQUARE
FH	- FORCE MAIN	SQ FT	- SQUARE FEET
FND	- FOUND	ST	- STREET
FP&L	- FLORIDA POWER AND LIGHT	STMH	- STORM DRAINAGE MANHOLE
(G)	- GRID (STATE PLANE)	SW	- SIDEWALK
GL	- UNDERGROUND GAS LINES	T/B	- TANGENT BEARING
GOV/T	- GOVERNMENT	T35S	- TOWNSHIP 35 SOUTH
GPR	- GROUND PENETRATING RADAR	TELE	- TELEPHONE
GTMH	- GREASE TRAP MANHOLE	TL	- OVERHEAD TRAFFIC SIGNAL LINES
HDPE	- HIGH DENSITY POLYETHYLENE PIPE	TOB	- TOP OF BANK
HWF	- HOG WIRE FENCE	TOP	- TOP OF SLOPE
ID	- IDENTIFICATION	TR	- TELEPHONE RISER
IRC	- IRRIGATION CONTROL VALVE	TRANS	- TRANSFORMER PAD
INFO	- INFORMATION	TSS	- TRAFFIC SIGNAL BOX
INV	- INVERT	TSSP	- TRAFFIC SIGNAL SUPPORT POLE
IP	- IRON PIPE	TVL	- UNDERGROUND CABLE TV LINES
IR	- IRON ROD	(TYP)	- TYPICAL
IR&C	- IRON REBAR & CAP	UE	- UTILITY EASEMENT
IRR	- IRRIGATION	UKN	- UNKNOWN
LB#	- LICENSED BUSINESS NUMBER	UTL	- UNDERGROUND TELEPHONE LINES
L	- LIGHT POLE	W/	- WITH
(M)	- MEASURED	W/L	- UNDERGROUND WATER LINE
MB	- MAILBOX	WLP	- WOOD LIGHT POLE
MES	- METERED END SECTION	WM	- WATER METER
MH	- MANHOLE	WP	- WORK PROGRAM
		WPF	- WOOD POST FENCE
		WPP	- WOOD POWER POLE


























NOT TO SCALE

- | | | |
|--|---|--|
| | = | 1 FOOT CONTOURS |
| | = | 5 FOOT CONTOURS |
| | = | NEGATIVE CONTOURS |
| | = | ADJOINTER PROPERTY LINES |
| | = | BARBED WIRE FENCE |
| | = | BROKEN LINE |
| | = | BURIED CABLE |
| | = | BURIED CABLE TELEVISION |
| | = | BURIED ELECTRIC |
| | = | BURIED FIBER OPTICS |
| | = | BURIED GAS |
| | = | BURIED RECLAIMED WATER LINE |
| | = | BURIED SANITARY LINES |
| | = | BURIED SANITARY SEWER FORCE MAIN LINE |
| | = | BURIED TRAFFIC CONTROL |
| | = | BURIED TELEPHONE LINE |
| | = | BURIED WATER LINES |
| | = | CENTER LINE R/W |
| | = | CHAIN LINK FENCE |
| | = | EASEMENT LINES (EXISTING) |
| | = | EASEMENT LINES (PROPOSED) |
| | = | EDGE OF WATER LINES |
| | = | EXISTING DRAINAGE PIPES |
| | = | EXISTING DRAINAGE PIPES (OUTFALL NOT LOCATED) = HOT WATER SUPPLY LINES |
| | = | IRRIGATION LINES |
| | = | OVERHEAD TRAFFIC LINES |
| | = | OVERHEAD UTILITY LINES |
| | = | RAILROAD TRACK LINES |
| | = | RIGHT-OF-WAY LINES |
| | = | SECTION LINES |
| | = | STONE WALL LINES |
| | = | TOP OF BANK LINES |
| | = | TOE OF SLOPE LINES |
| | = | TREE LINES |
| | = | TRAVERSE LINES |
| | = | UNKNOWN BURIED LINES |
| | = | VINYL FENCE |
| | = | WOOD FENCE |
| | = | WETLAND LINE |

NOT TO SCALE

- | | | | |
|---|--------------------------------------|---|--------------------------------|
|  | - AIR RELEASE VALVE |  | - NAIL & DISC (AS NOTED) |
|  | - BORING HOLE LOCATION |  | - PARKING SPACES (2) |
|  | - CABLE TV RISER |  | - REVISION NUMBER (3) |
|  | - CENTRAL ANGLE |  | - RECLAIMED WATER METER |
|  | - CONCRETE |  | - RECLAIMED WATER VALVE |
|  | - CLEAN OUT |  | - ROOF DRAIN |
|  | - CONCRETE MITERED END SECTION |  | - SANITARY SEWER MANHOLE |
|  | - CONCRETE RIP RAP |  | - SANITARY SEWER VALVE |
|  | - CONCRETE UTILITY POLE |  | - SCHEDULE B ITEM NUMBER (8) |
|  | - COUNTY ROAD SYMBOL |  | - GROUND LIGHT |
|  | - DUAL SUPPORT SIGN |  | - SECTION CORNER |
|  | - ELECTRICAL MANHOLE |  | - 4" x 4" CM LB #7143 |
|  | - ELECTRIC OUTLET |  | - 5/8" IR&C LB #7143 |
|  | - ELECTRIC RISER |  | - SIGN |
|  | - FIRE HYDRANT |  | - SITE BENCH MARK |
|  | - FLOOD LIGHT |  | - STORM SEWER MANHOLE |
|  | - FOUND CONCRETE MONUMENT (AS NOTED) |  | - STRIPPING (DIRECTIONAL) |
|  | - FOUND IRON PIPE (AS NOTED) |  | - TELEPHONE CABLE RISER |
|  | - FOUND IRON REBAR (AS NOTED) |  | - TELEPHONE MANHOLE |
|  | - GAS VALVE |  | - TEST HOLE |
|  | - GRATE INLET |  | - TRANSFORMER PAD |
|  | - GREASE TRAP MANHOLE |  | - UTILITY RISER |
|  | - GUY ANCHOR |  | - WATER METER |
|  | - HANDICAP PARKING SPACE |  | - WATER SERVICE |
|  | - INTERSTATE SYMBOL |  | - WATER SPRINKLER |
|  | - IRRIGATION CONTROL VALVE |  | - WATER VALVE |
|  | - CONCRETE LIGHT POLE |  | - WETLAND FLAG |
| | - LIGHT POLE | | - WOOD UTILITY POLE |
| | - LIGHT POLE (DUAL) | | - UNKNOWN MANHOLE |
| | - LIGHT POLE (TRIPLE) | | - CONCRETE PAVERS |
| | - LIGHT POLE (QUAD) | | - DETECTABLE WARNING AREA |
| | - MAILBOX | | - CONCRETE LIGHT POLE (DUAL) |
| | - MONITOR WELLS | | - CONCRETE LIGHT POLE (TRIPLE) |
| | - BRICK PAVERS | | - CONCRETE LIGHT POLE (QUAD) |
| | - GARBAGE CAN | | |

NOT TO SCALE

- | | | |
|-------|---|---------------------------|
| (A1) |  | AISLE SIGN |
| (B) |  | BUS STOP SIGN |
| (DNE) |  | DO NOT ENTER SIGN (R5-1) |
| (HC) |  | HANDICAP SIGN |
| (KR) |  | KEEP RIGHT SIGN |
| (ME) |  | MEDIAN SIGN |
| (ND) |  | NO DUMPING SIGN |
| (NL) |  | NO LEFT TURN SIGN (R3-2) |
| (NLI) |  | NO LITTERING SIGN |
| (FL) |  | NO PARKING FIRE LANE SIGN |
| (NOR) |  | NO RIGHT TURN SIGN (R3-1) |
| (NOT) |  | NO TRUCKS (R5-2) |
| (NP) |  | NO PARKING SIGN |
| (1W) |  | ONE WAY SIGN (R6-2) |
| (PE) |  | PEDESTRIAN CROSSING SIGN |
| (RTO) |  | RIGHT TURN ONLY |
| (SL) |  | SPEED LIMIT SIGN |
| (ST) |  | STOP SIGN (R1-1) |
| (SS) |  | STREET SIGN |
| (TZ) |  | TOW AWAY ZONE SIGN |
| (TE) |  | TRUCK ENTRANCE SIGN |
| (U) |  | UNKNOWN SIGN |
| (WL) |  | WEIGHT LIMIT SIGN |
| (WW) |  | WRONG WAY SIGN |
| (Y) |  | YIELD SIGN |

NOTE:
THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 2 OF 2

TITLE BLOCK ABBREVIATIONS			
Eng. = ENGINEERING	L.B. = LICENSED BUSINESS		
C.O.A. = CERTIFICATE OF AUTHORIZATION	Arch. = ARCHITECTURAL		
Landscp. = LANDSCAPE	N/A = NOT APPLICABLE	Lic. = LICENSED	
No. = NUMBER	P.O. = POST OFFICE	© = COPYRIGHT	

1 COVER SHEET
2 TOPOGRAPHIC SURVEY

I hereby certify that the attached "Topographic Survey" of the hereon-described property is true and correct to the best of my knowledge, information and belief as surveyed in the field on June 10, 2013. I further certify that this "Topographic Survey" meets the minimum technical standards set forth in Rule Chapter 5J-17 of the Florida Administrative Code.

For the Firm By:

Paul J. Katrek
Professional Surveyor and Mapper
Florida Registration No. 6233

cph










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Engineers
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Environmental Scientists
Construction
Management
Traffic/Transportation

Eng. C.O.A. No. 3215
Survey Lic. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298

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JTF	ADDED TOPOGRAPHIC INFORMATION
JTF	ADDED LAKE TOPOGRAPHIC INFORMATION
PJK	ROTATED SURVEY TO MATCH SUPPLIED AERIAL
By	Revision

Field Crew:	E.H.	
Drawn by:	J.T.F.	
Checked by:	R.L.R.	
Approved by:	P.J.K.	
Scale:	1"=20'	
Date:	6/10/13	
Job No.:	M13107	
File:	M13107.dwg	No.  Date 

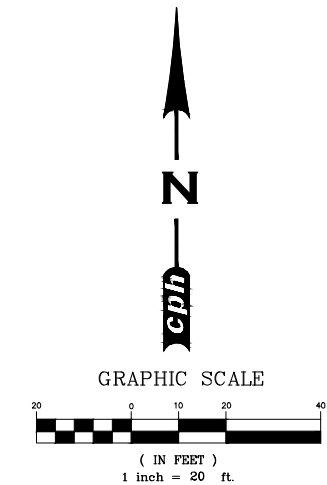
TOPOGRAPHIC SURVEY

JIGGS LANDING

6106 E 63RD ST BRADENTON, FL
SECTION 22-TOWNSHIP 36 SOUTH-RANGE 18 EAST
MANATEE COUNTY, FLORIDA

Sheet No.

1
of 2



NOTE:
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Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landsc. Lic. No. LC0000298
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Field Crew:	Drawn by:	Checked by:	Approved by:	Scale:	Date:	Job No.:	File:	No.	Date	Revision	By
	E.H.	J.T.F.	R.L.R.	P.J.K.	1"=20'	6/10/13	6/10/13	12/17/12	11/15/12		
										ADDED TOPOGRAPHIC INFORMATION	JTF
										ADDED LAKE TOPOGRAPHIC INFORMATION	JTF
										ROTATED SURVEY TO MATCH SUPPLIED AERIAL	PJK

TOPOGRAPHIC SURVEY

JIGGS LANDING

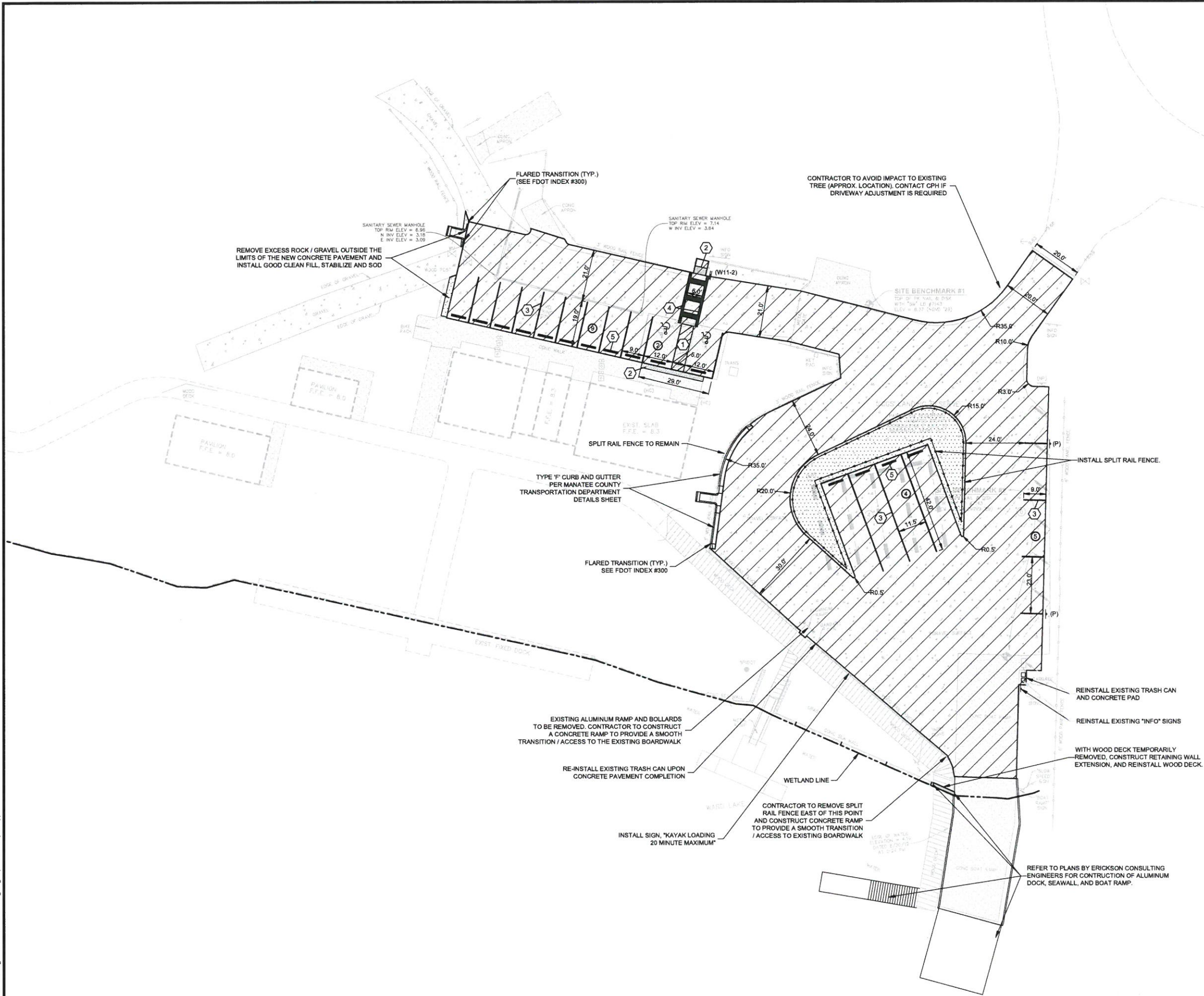
6106 E 63RD ST BRADENTON, FL
SECTION 22-TOWNSHIP 35 SOUTH-RANGE 18 EAST
MANATEE COUNTY, FLORIDA

Sheet No.

2
of 2

ITEM	DESCRIPTION	UNIT	QTY
2.01	MOBILIZATION	LS	1
2.02	MAINTENANCE OF TRAFFIC	LS	1
2.03	SURVEY AND CONTROL LAYOUT BY CONTRACTOR	LS	1
2.04	AS-BUILT SURVEY	LS	1
2.05	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
2.06	REMOVE AND STORE, EXIST. SITE ITEMS (SIGNS, WHEEL STOPS, TRASH CAN/PADS, BOLLARDS, WOOD DECK, ALUMINUM RAMP)	LS	1
2.07	CLEARING AND GRUBBING	LS	1
2.08	REMOVE AND DISPOSE OF, EXIST. GRAVEL	SY	2398
2.09	REMOVE AND DISPOSE OF, EXIST. CONCRETE	SY	303
2.10	GRADING	LS	1
2.11	ADJUST EXIST. VALVE BOX TO GRADE	EA	2
2.12	ADJUST MANHOLE RIM TO GRADE	EA	2
2.13	12-INCH SUB-BASE (STAB. W/ MIN. 60 LBR)	SY	2414
2.14	PAVEMENT CEMENT CONCRETE (6-INCH THICK MIN., 4000 PSI), INCLUDING MACROSYNTHETIC FIBER REINFORCEMENT (5.0 LBS/CY, 1.5-INCH FORTA-FERRO)	SY	2414
2.15	CONCRETE SIDEWALK (4-INCH THICK MIN., 3000 PSI), INCLUDING MACROSYNTHETIC FIBER REINFORCEMENT (5.0 LBS/CY, 1.5-INCH FORTA-FERRO)	SY	4
2.16	FLOWABLE FILL (UNDER WOOD DECK)	CY	15
2.17	CURB & GUTTER, CONCRETE (TYPE "F", MANATEE COUNTY)	LF	50
2.18	CONCRETE FLUME	EA	2
2.19	SODDING	SY	222
2.20	SPLIT RAIL FENCE	LF	286
2.21	RE-INSTALL EXIST. SITE ITEMS (SIGNS, WHEEL STOPS, TRASH CAN/PADS, WOOD DECK)	LS	1
2.22	SIGN (NEW)	EA	1
2.23	DETECTABLE WARNING (ARMORTILE)	SY	11
2.24	THERMOPLASTIC TRAFFIC STRIPES AND MARKINGS	LS	1
2.25	REMOVE AND STORE, EXIST. CONCRETE BOAT RAMP PANEL	EA	4
2.26	EXCAVATION (EXIST. MATERIAL BELOW BOAT RAMP)	CY	34
2.27	RETAINING WALL EXTENSION (VINYL) INCLUDING CONCRETE CAP	LF	4
2.28	ALUMINUM FLOATING DOCK (20' X 8') INCLUDING ALUMINUM RAMP (20' X 5')	LS	1
2.29	8-INCH CRUSHED SHELL BASE (MIN. 100 LBR) (UNDER CONCRETE BOAT RAMP PANEL)	TN	28
2.30	CONCRETE (STEEL REINFORCED, 5000 PSI)	CY	13
2.31	RE-INSTALL EXIST. CONCRETE BOAT RAMP PANEL	EA	4
2.32	VINYL SHEET PILING, 5-INCH PROFILE (ALONG RAMP SIDES)	SF	1300
2.33	PRECAST CONCRETE BEAM, 12-INCH X 16-INCH (STEEL REINFORCED, 5000 PSI)	LF	26
2.34	CLEAN FILL MATERIAL (MIN. 100 LBR) (UNDER ARTICULATING CONCRETE BLOCK)	CY	20
2.35	ARTICULATING CONCRETE BLOCK MATTRESS (8.5-INCH THICK) INCLUDING GEOTEXTILE FABRIC	SY	87
2.36	AGGREGATE, #57 STONE (FOR ARTICULATING CONCRETE BLOCK MATTRESS)	CY	20
2.37	CONCRETE (STEEL REINFORCED, 5000 PSI, TREMIE POUR)	CY	8
2.38	TESTING ALLOWANCE (CONT.)	LA	1
2.39	GENERAL ALLOWANCE (CONT.)	LA	1
5.00	BID AS ALTERNATIVE		
5.01	REMOVE, TRANSPORT, DELIVER EXIST. GRAVEL TO COUNTY FACILITY (REPLACES BID ITEM 2.08)	SY	2398

J:\M13107\DWG\DWG\Design\M13107 C-04 SDP.dwg Aug 18, 2014 - 2:23pm kupp



LEGEND:

- PROPOSED CONCRETE PAVEMENT, REFER TO GENERAL DETAIL SHEET.
- PROPOSED LANDSCAPE ISLAND PLANTED W/ BAHIA SOD
- "PARALLEL PARKING ONLY" SIGN PER MUTCD SPECIFICATIONS, LATEST EDITION.
- "PEDESTRIAN CROSSING" SIGN PER MUTCD SPECIFICATIONS, LATEST EDITION.
- PARKING COUNT

KEYNOTE LEGEND:

- ACCESSIBLE RAMP AND PARKING STALL DETAIL, SEE GENERAL DETAILS SHEET FOR ACCESSIBLE PARKING SPACE SIZE, SIGN, STRIPING AND SYMBOL.
- DETECTABLE WARNING, 2" DEPTH
- SINGLE WHITE SOLID LINE / 4" WIDE
- 6' WIDE PEDESTRIAN CROSSWALK (SPECIAL EMPHASIS) STRIPING PER FOOT INDEX # 17346.
- INSTALL EXISTING WHEEL STOPS

SPLIT RAIL NOTE:

CONTRACTOR TO PROVIDE SHOP DRAWING / OUT SHEET FOR REVIEW AND APPROVAL. NEW FENCE SHALL CLOSELY MATCH EXISTING SPLIT RAIL FENCE.

FLOWABLE FILL NOTE:

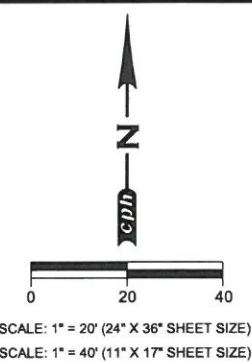
WITHOUT REMOVING WOOD DECK, VOID SPACE BELOW WOOD DECK TO BE STABILIZED WITH FLOWABLE FILL WHERE EROSION HAS OCCURRED, AS DIRECTED BY THE ENGINEER.

EXPANSION JOINT NOTE:

INSTALL 1/2" THICK EXPANSION / FILLER MATERIAL IN BETWEEN FIXED OBJECTS AND PROPOSED CONCRETE PAVEMENT (TYP).

NOTE:

EXISTING SITE ELEMENTS ARE SHOWN SCREENED FOR CLARITY.



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West Virginia
Wisconsin
Wyoming

STATE OF FLORIDA
PROFESSIONAL
ENGINEER
ADAM BRYANT
LICENSE No. 71551

By: J.A.B.
Revision
OUT TO BID
Date: 08/12/14

Designed by: KMU
Drawn by: KMU
Checked by: JAB
Approved by: JAB
Scale: AS NOTED
Date: 08/12/14
Job No.: M13107
© 2014

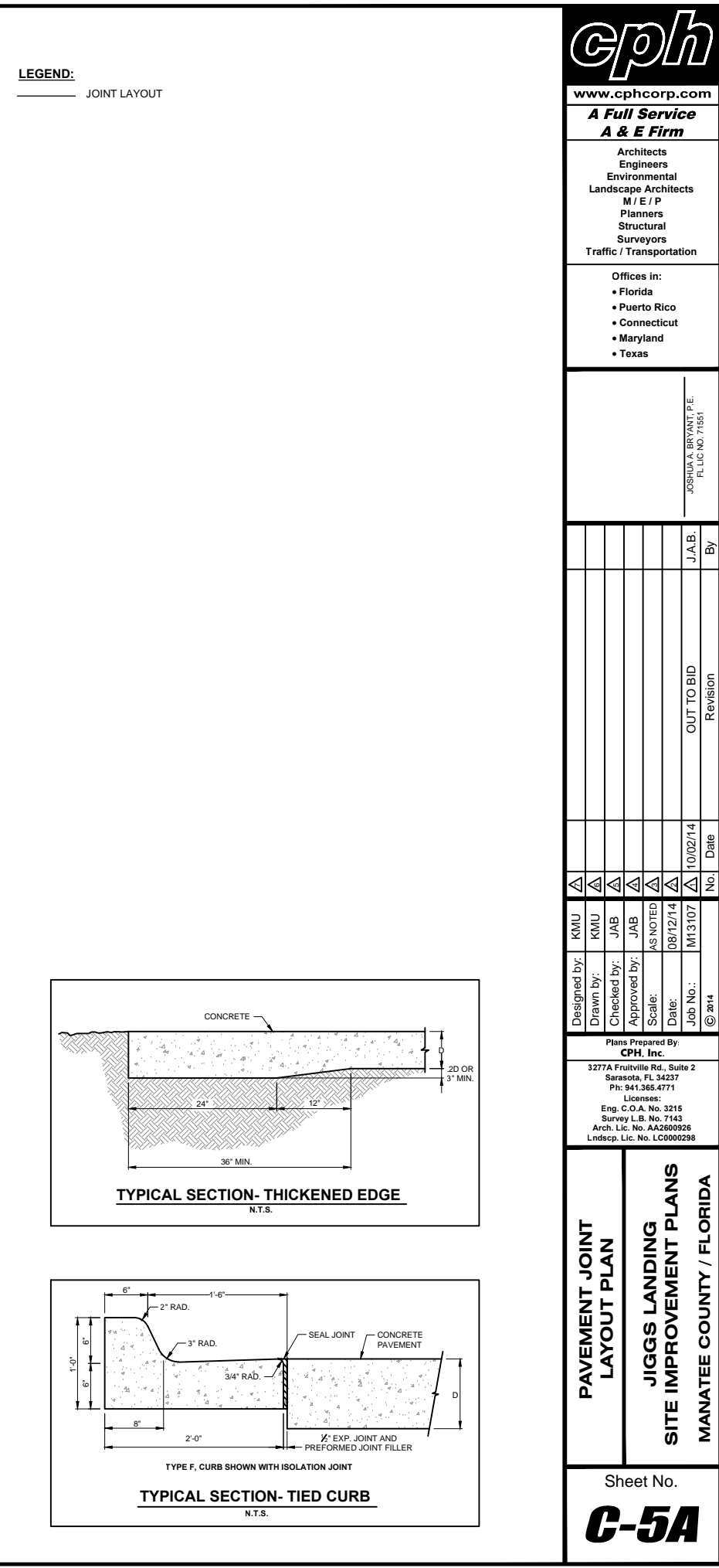
Plans Prepared By:
CPH, Inc.
3277A Fruitville Rd., Suite 2
Sarasota, FL 34237
Ph: 941.365.4771
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA260926
Landscape Lic. No. LC9000298

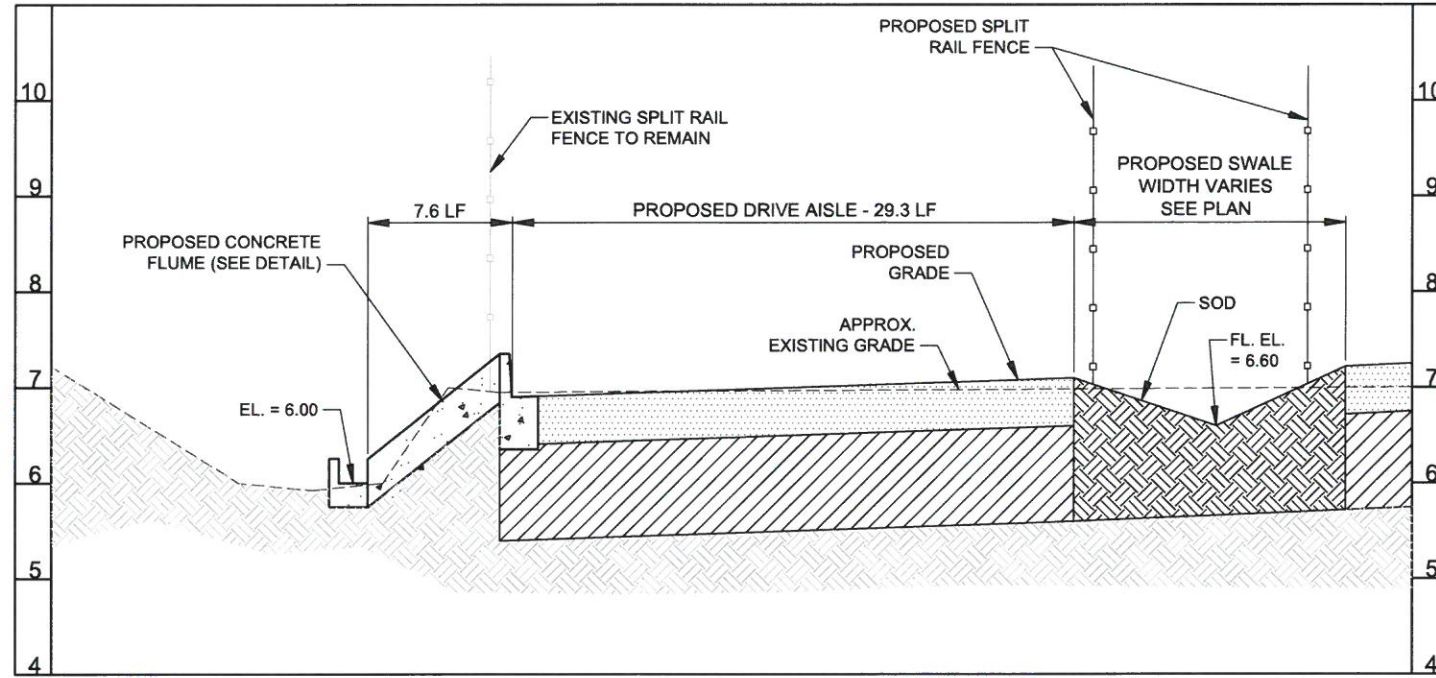
SITE DIMENSION PLAN

**JIGGS LANDING
SITE IMPROVEMENT PLANS**

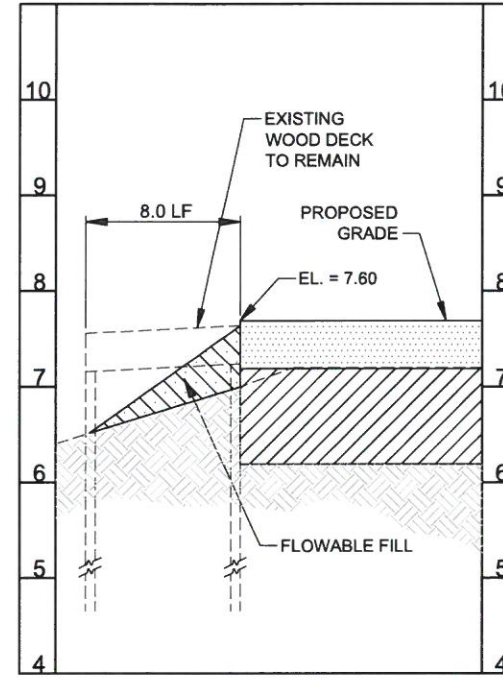
MANATEE COUNTY / FLORIDA

Sheet No.
C-4

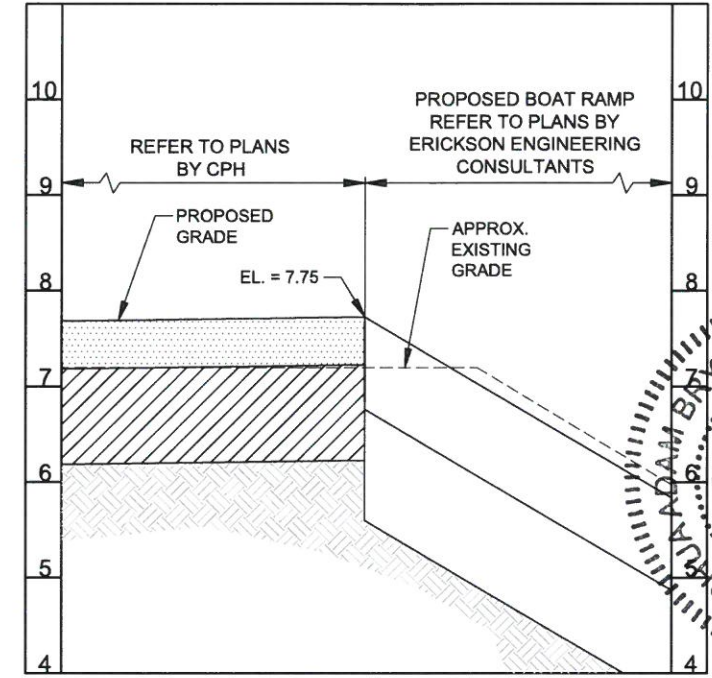




SECTION 'A'-A'
SCALE: 1"=5' HORIZ, 1"=1' VERT (24" X 36")
1"=10' HORIZ, 1"=2' VERT (11" X 17")



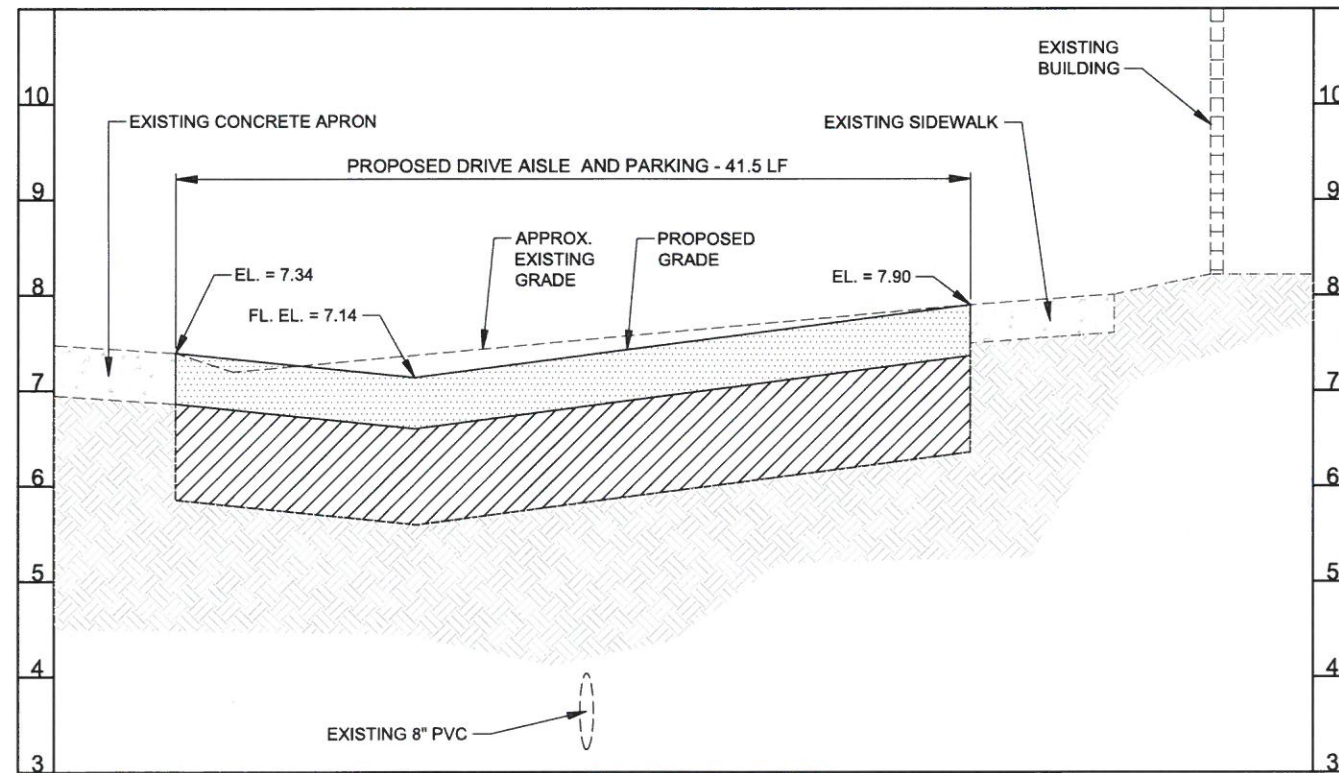
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SCALE: 1"=5' HORIZ, 1"=1' VERT (24" X 36")
1"=10' HORIZ, 1"=2' VERT (11" X 17")



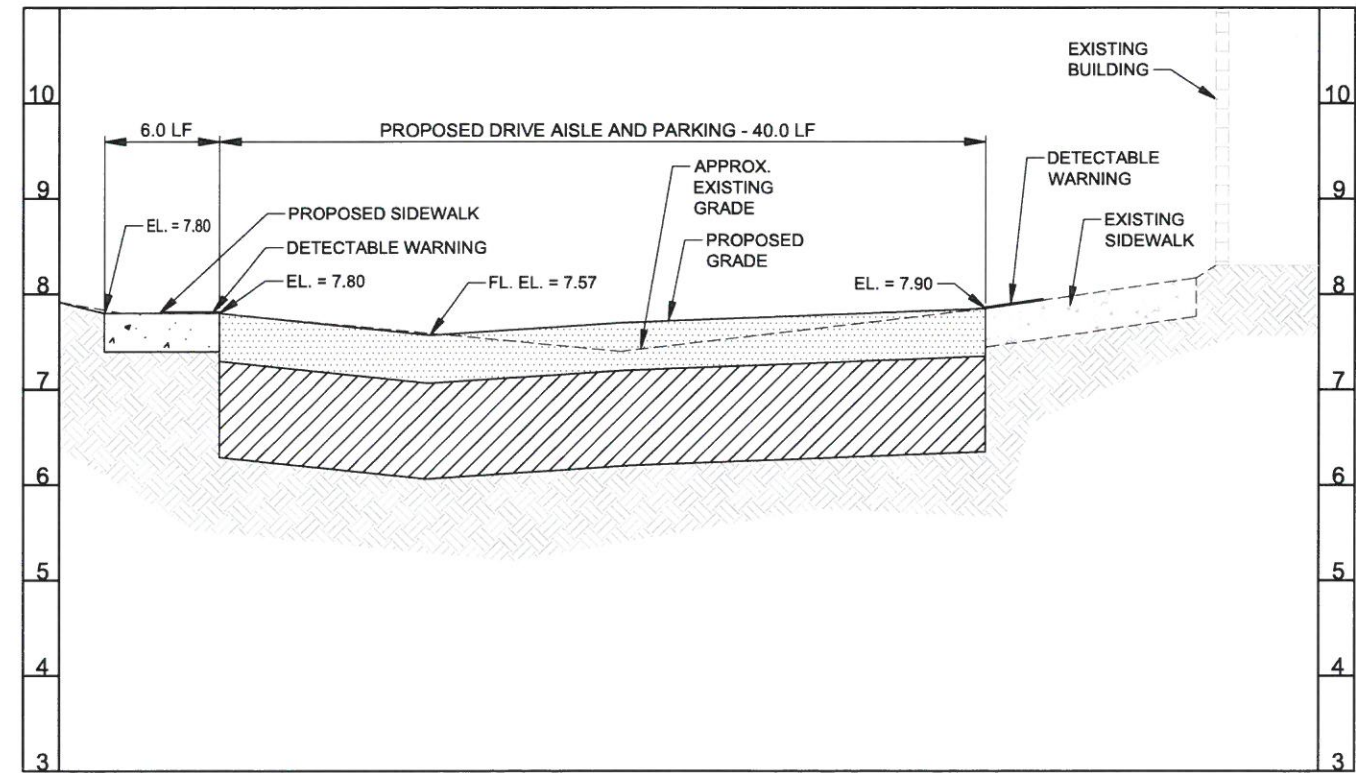
SECTION 'C'-C'
SCALE: 1"=5' HORIZ, 1"=1' VERT (24" X 36")
1"=10' HORIZ, 1"=2' VERT (11" X 17")

LEGEND

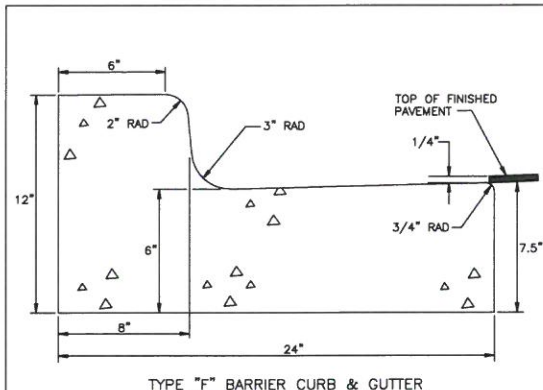
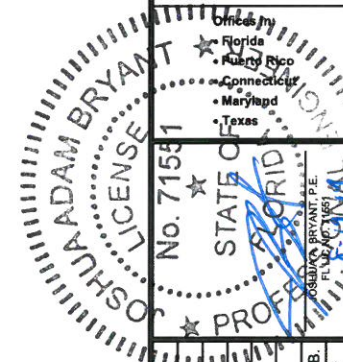
---	EXISTING GRADE	[Pattern]	CONCRETE SIDEWALK 4" THICK
[Pattern]	CONCRETE 6" THICK	[Pattern]	EXISTING SIDEWALK CONCRETE
[Pattern]	STABILIZED SUBGRADE 12" THICK	[Pattern]	EXISTING FILL
[Pattern]	PROPOSED FILL	[Pattern]	FLOWABLE FILL



SECTION 'D'-D'
SCALE: 1"=5' HORIZ, 1"=1' VERT (24" X 36")
1"=10' HORIZ, 1"=2' VERT (11" X 17")



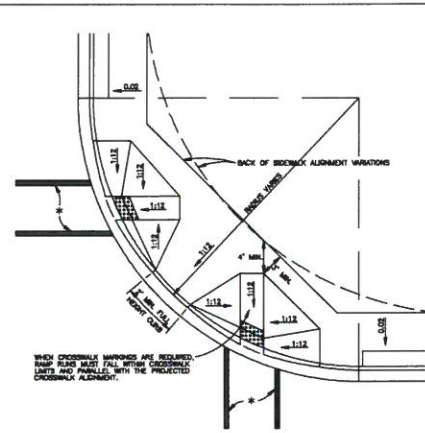
SECTION 'E'-E'
SCALE: 1"=5' HORIZ, 1"=1' VERT (24" X 36")
1"=10' HORIZ, 1"=2' VERT (11" X 17")



TYPE "F" BARRIER CURB & GUTTER

- A) CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.
B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE F CURB & GUTTER	201.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

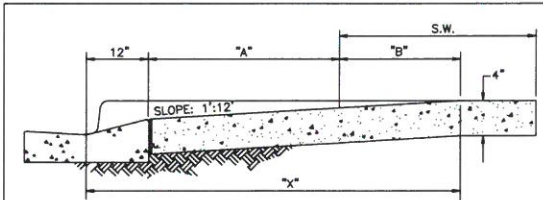


HANDICAPPED RAMP SHEET 1

- 1) CURB CUT RAMP ARE TO BE LOCATED AS SHOWN ON PLANS.
2) SEE SHEETS # 300.1 "GENERAL NOTES" & # 301.2 "HANDICAPPED RAMP" SHEET 2 FOR FURTHER REQUIREMENTS.
3) RADIUS OF CURB VARIES AS FOLLOWS:
A) 25' RAD. LOCAL STREET WITH ALLEY.
B) 25' RAD. LOCAL STREET WITH LOCAL STREET.
C) 35' RAD. LOCAL STREET WITH THOROUGHFARE OR COLLECTOR.
D) 50' RAD. THOROUGHFARE WITH THOROUGHFARE.
4) CURB RADIUS SHOULD BE A MINIMUM OF 50' WHERE INDUSTRIAL AND BUS TRAFFIC (5% OR MORE) IS ANTICIPATED ON LOWER CLASSIFICATION ROADWAYS.
5) BOTH LOCATION OPTIONS FOR HANDICAPPED RAMP ARE SHOWN. ENGINEER MAY SELECT EITHER, WHICHEVER FITS THE SITUATION.

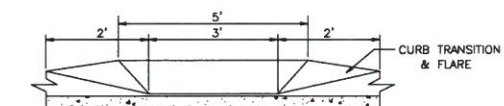
NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 1	302.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



SECTION A-A
(SEE SHEET 301.0)

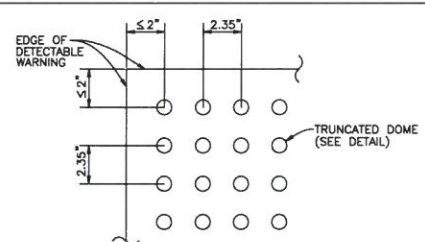
S.W. = SIDEWALK	"A"	S.W. + A + 10"	"X"	"B"
5'-0"	0	5.8'	5.8'	5'
6'-0"	0	6.8'	6.8'	6'
7'-0"	0	7.8'	7.3'	6.5'
8'-0"	0	8.8'	7.3'	6.5'
5'-2"	2	7.6'	5'	5'
5'-2.5'	2.5	8.3'	8.1'	4.8'
5'-3"	3	8.8'	8.2'	4.4'
5'-3.5'	3.5	9.3'	8.4'	4.1'
5'-4"	4	9.8'	8.6'	3.8'
5'-4.5'	4.5	10.3'	8.7'	3.4'
5'-5"	5	10.8'	9.1'	3.1'



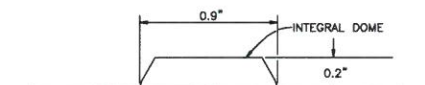
SECTION B-B
(SEE SHEET 301.0)

NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 2	302.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



PLAN VIEW



TRUNCATED DOME

CURB RAMP DETECTABLE WARNING DETAIL

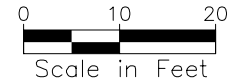
- NOTES:
DETECTABLE WARNINGS ON WALKING SURFACES
THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.
DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% CONTRAST IN PERCENT IS DETERMINED BY:
 $CONTRAST = [(B1-B2)/B1] \times 100$
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.
NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



1. JIGGS LANDING BOAT RAMP ADDRESS:
6106 63RD STREET E, BRADENTON, FL
2. TOPOGRAPHIC SURVEY COMPLETED ON JUNE 2013 BY CPH
3. ELEVATIONS ARE BASED ON NGVD 29 DATUM.
BEANCHMARKS # MCO BM 87-29-05, ELEVATION = 11.028'
NGVD 29 AND #MCO BM 8-2-04, ELEVATION =10.591' NGVD 29.

WATER LEVEL DATA
HISTORICAL HIGH WATER LEVEL = 5.8' NGVD 1929
AVERAGE HIGH WATER LEVEL = 4.25' NGVD 1929
DAILY MEAN WATER LEVEL = 4.0' NGVD 1929
AVERAGE LOW WATER LEVEL = 1.8' NGVD 1929
HISTORICAL LOW WATER LEVEL = -3.1' NGVD 1929

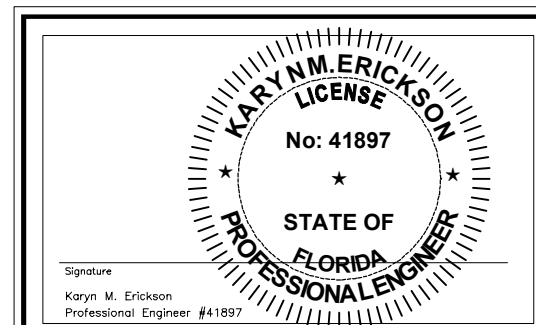


Ramp Section	Description
1	Flat, formed concrete ramp section; approximately 25 ft x50 ft; thickness assumed to be 10 in.
2	Sloped, formed concrete ramp section; nominally 25 ft x 16.5 ft; 10 in. thick.
3	Sloped, pre-fabricated concrete panel; approximately 25 ft by 10.5 ft; 10 in. thick.
4	Sloped, pre-fabricated concrete panel; approximately 25 ft by 10.5 ft; 10 in. thick.
5	Sloped, pre-fabricated concrete panel; approximately 25 ft by 10.5 ft; 10 in. thick.
6	Sloped, pre-fabricated concrete panel; nominally 25 ft by 8 ft; 10 in. thick.

LEGEND

- Legend:

 - 1 ---: EXISTING SPOT ELEVATION
 - FORMED CONCRETE SLAB - FLAT SECTION (ASSUMED 10 IN THICK): A rectangle with diagonal lines from bottom-left to top-right.
 - FORMED CONCRETE SLAB - SLOPED SECTION (10 IN THICK): A rectangle with diagonal lines from top-left to bottom-right.
 - PRE-FABRICATED CONCRETE PANELS (10 IN THICK): A rectangle with a cross-hatch pattern.
 - : WETLAND LINE
 - : SAFE UPLAND LINE

[illegible]

DESIGNED BC	DRAWN AS	CHECKED KE
DATE: 08-12-14		
JOB NO. 12-245		
SCALE: AS NOTED		

JIGGS LANDING BOAT RAMP IMPROVEMENTS
MANATEE COUNTY
BRADENTON, FLORIDA

EXISTING CONDITIONS PLAN

Erickson Consulting Engineers, Inc.

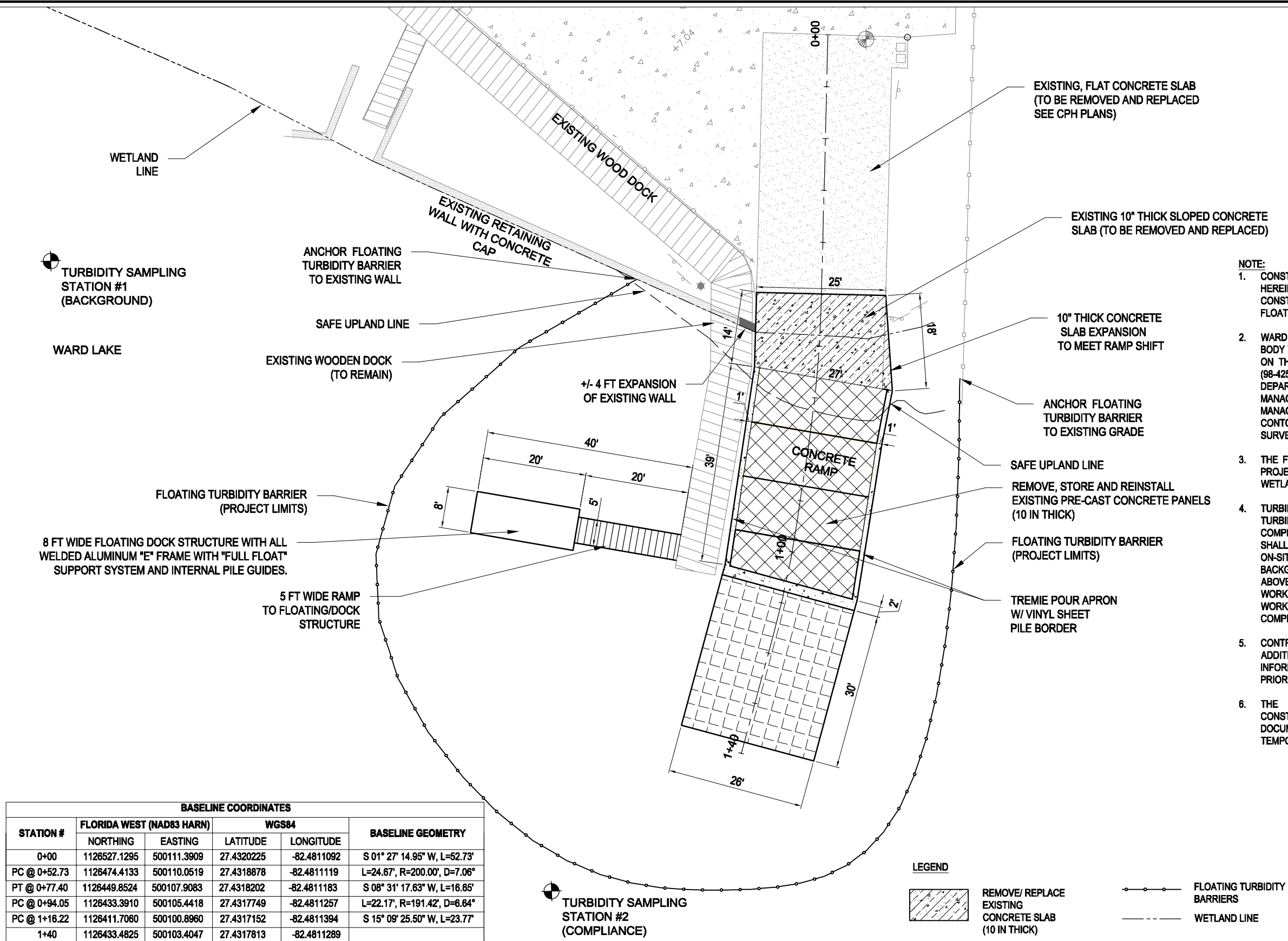
ECE
Erickson Consulting Engineers

DRAWING NUMBER

E1

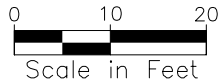
SHEET 1 OF 10

Z:\CADD_Graphics\US Projects\12-245_CPH_Jiggs Landing Boat Ramp\Construction\E1-E6 Construction Drawings 2014-08-14.dwg Aug 14, 2014--2:52pm



NOTE:

- CONSTRUCTION ASSOCIATED WITH THE IMPROVEMENTS SHOWN HEREIN (INCLUDING TEMPORARY COFFER DAM , IF REQUIRED FOR CONSTRUCTION), SHALL BE CONDUCTED WITHIN THE LIMITS OF THE FLOATING TURBIDITY BARRIER, AS SHOWN HEREIN.
- WARD LAKE (BILL EVERS RESERVOIR) IS A CONTROLLED WATER BODY WITH A SAFE UPLAND ELEVATION OF 4.10 FT (NGVD29) BASED ON THE WARD LAKE WATER RESOURCE INVESTIGATION REPORT (98-4251) BY USGS, THE CITY OF BRADENTON PUBLIC WORKS DEPARTMENT, THE MANATEE COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD). THE 4.10 FT (NGVD29) CONTOUR LINE HAS BEEN SHOWN HEREIN PER THE JUNE 2013 CPH SURVEY.
- THE FLOATING TURBIDITY BARRIER SHOWN HEREIN DEFINES THE PROJECT LIMITS FOR ALL WORK IN, ON OR OVER A JURISDICTIONAL WETLAND.
- TURBIDITY MONITORING IS REQUIRED DURING CONSTRUCTION. TURBIDITY MONITORING STATIONS (BACKGROUND AND COMPLIANCE) HAVE BEEN SHOWN HEREIN. THE CONTRACTOR SHALL LIMIT THE DISCHARGE OF TURBID WATERS OFF-SITE OR INTO ON-SITE/OFF-SITE WETLANDS TO NO MORE THAN 29 NTUs ABOVE BACKGROUND LEVELS. IF COMPLIANCE SAMPLES EXCEED 29 NTUs ABOVE BACKGROUND LEVELS, THE CONTRACTOR SHALL CEASE ALL WORK AND NOTIFY THE COUNTY AND ENGINEER IMMEDIATELY. WORK SHALL NOT CONTINUE UNTIL DISCHARGES MEET THE COMPLIANCE CRITERIA.
- CONTRACTOR TO REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONTRACTOR TO SUBMIT INTENT INFORMATION WITH BID AND SHOP DRAWINGS FOR REVIEW BY EOR PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR MAY USE ANY MEANS NECESSARY TO CONSTRUCT THE RAMP WITHIN THE LIMITS OF THE CONTRACT DOCUMENTS. THIS MAY INCLUDE THE POTENTIAL USE OF A TEMPORARY COFFER DAM AND CONTINUAL DEWATERING.



BASELINE COORDINATES					
STATION #	FLORIDA WEST (NAD83 HARN)		WGS84		BASELINE GEOMETRY
	NORTHING	EASTING	LATITUDE	LONGITUDE	
0+00	1126527.1295	500111.3909	27.4320225	-82.4811092	S 01° 27' 14.95" W, L=52.73'
PC @ 0+52.73	1126474.4133	500110.0519	27.4318878	-82.4811119	L=24.67', R=200.00', D=7.06°
PT @ 0+77.40	1126449.8524	500107.9083	27.4318202	-82.4811183	S 08° 31' 17.63" W, L=16.65'
PC @ 0+94.05	1126433.3910	500105.4418	27.4317749	-82.4811257	L=22.17', R=191.42', D=6.64°
PC @ 1+16.22	1126411.7060	500100.8960	27.4317152	-82.4811394	S 15° 09' 25.50" W, L=23.77'
1+40	1126433.4825	500103.4047	27.4317813	-82.4811289	

TURBIDITY SAMPLING COORDINATES				
STATION #	FLORIDA WEST (NAD83 HARN)		WGS84	
	NORTHING	EASTING	LATITUDE	LONGITUDE
1	1126483.5498	499961.7870	27.431755	-82.481176
2	1126362.2382	500058.1717	27.431585	-82.481268

WATER LEVEL DATA
HISTORICAL HIGH WATER LEVEL = 5.8' NGVD 1929
AVERAGE HIGH WATER LEVEL = 4.25' NGVD 1929
DAILY MEAN WATER LEVEL = 4.0' NGVD 1929
AVERAGE LOW WATER LEVEL = 1.8' NGVD 1929
HISTORICAL LOW WATER LEVEL = -3.1' NGVD 1929

REVISIONS		DATE	BY	CHKD	APP'D

DESIGNED	DRAWN	CHECKED	DATE	SCALE
BC	AS	KE	08-12-14	AS NOTED

JIGGS LANDING BOAT RAMP IMPROVEMENTS MANATEE COUNTY BRADENTON, FLORIDA	
SITE PLAN	

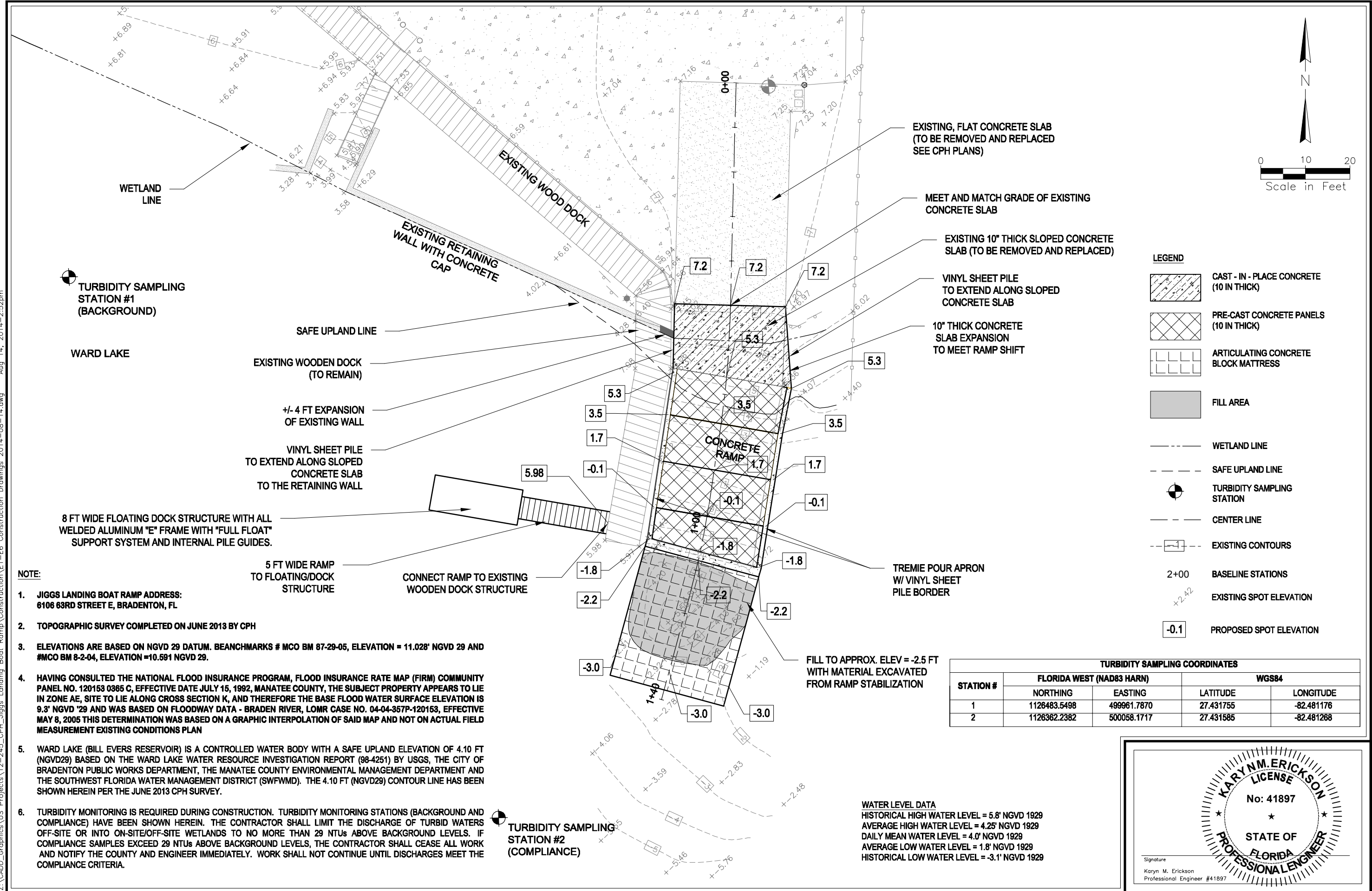
Erickson Consulting Engineers, Inc.

7201 Delaney Court
Sarasota, FL 34240
(941) 373-6460

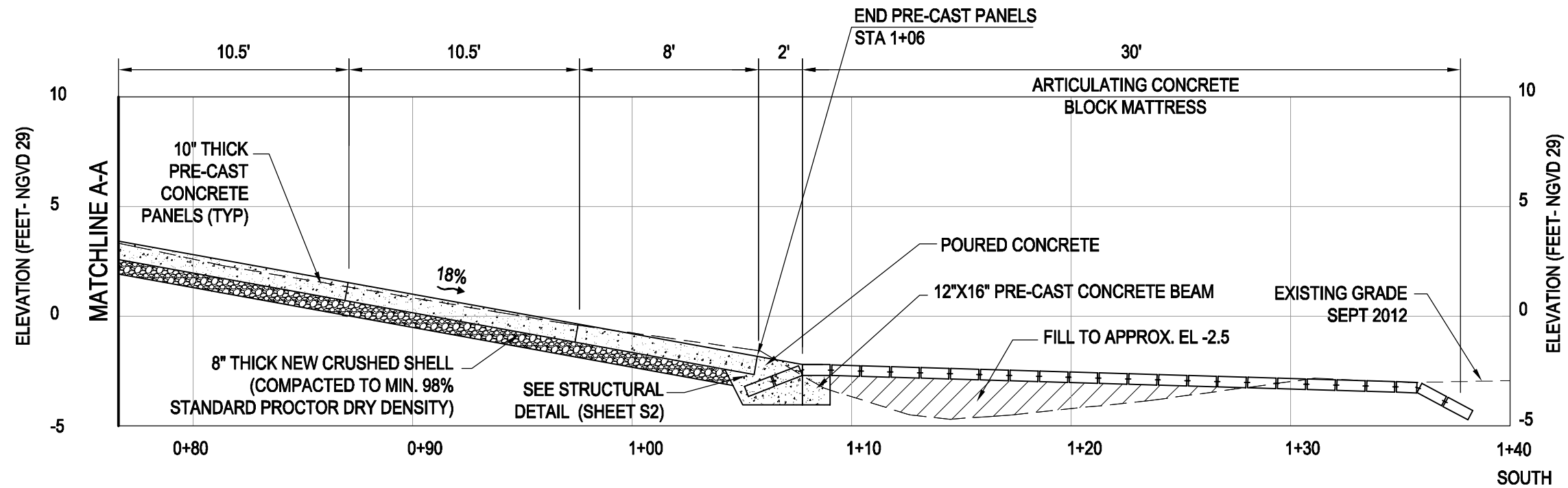
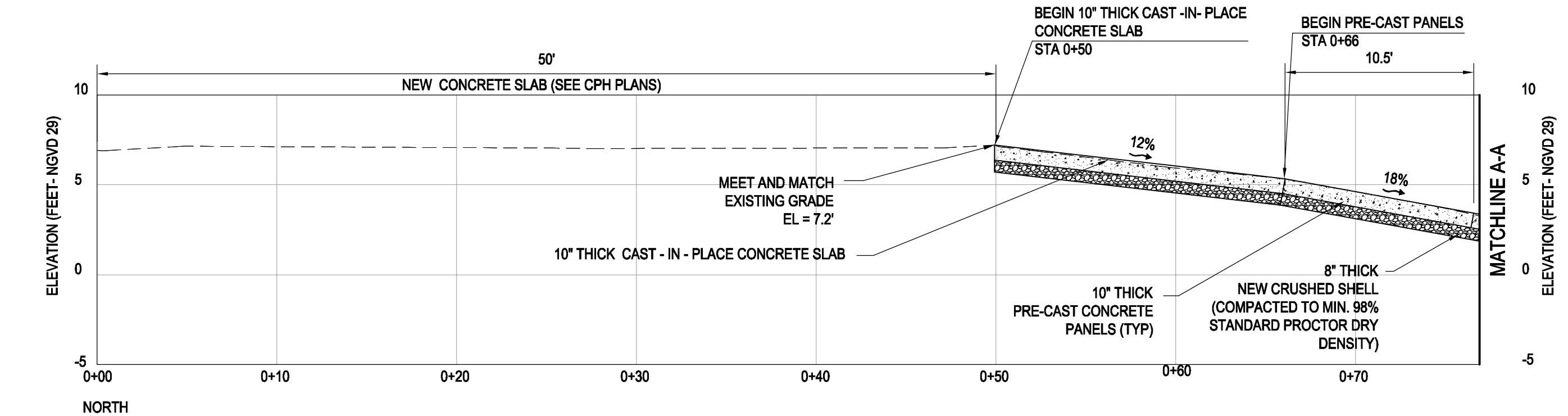
DRAWING NUMBER
E2
SHEET 2 OF 10

KARYN M. ERICKSON
LICENSE
No: 41897
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Signature
Karyn M. Erickson
Professional Engineer #41897

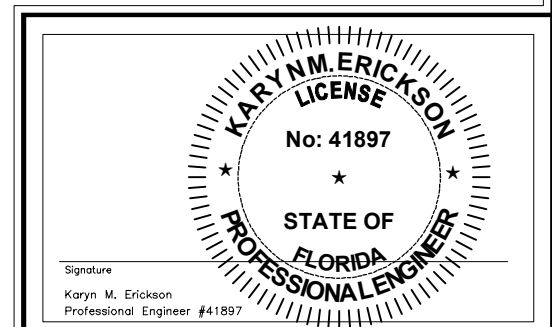
A circular professional engineer seal for Karyn M. Erickson. The outer ring contains the text "KARYN M. ERICKSON" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. The inner circle contains the word "LICENSE" at the top, "No: 41897" in the center, and "STATE OF FLORIDA" at the bottom, also separated by three stars. The seal is surrounded by a series of short, radiating lines. Below the seal, there is a line for a signature and the text "Karyn M. Erickson Professional Engineer #41897".

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WATER LEVEL DATA
HISTORICAL HIGH WATER LEVEL = 5.8' NGVD 1929
AVERAGE HIGH WATER LEVEL = 4.25' NGVD 1929
DAILY MEAN WATER LEVEL = 4.0' NGVD 1929
AVERAGE LOW WATER LEVEL = 1.8' NGVD 1929
HISTORICAL LOW WATER LEVEL = -3.1' NGVD 1929

JIGGS LANDING BOAT RAMP
LONGITUDINAL SECTION
SCALE 1" = 6' (H)
1" = 6' (V)



REV.	DATE	DRAWN BY	CHECKED BY	REMARKS

DESIGNED BY	BC	DRAWN BY	AS	CHECKED BY	KE
DATE	08-12-14	DATE	08-12-14	DATE	08-12-14
JOB NO.	12-245	JOB NO.	12-245	JOB NO.	12-245
SCALE	AS NOTED	SCALE	AS NOTED	SCALE	AS NOTED

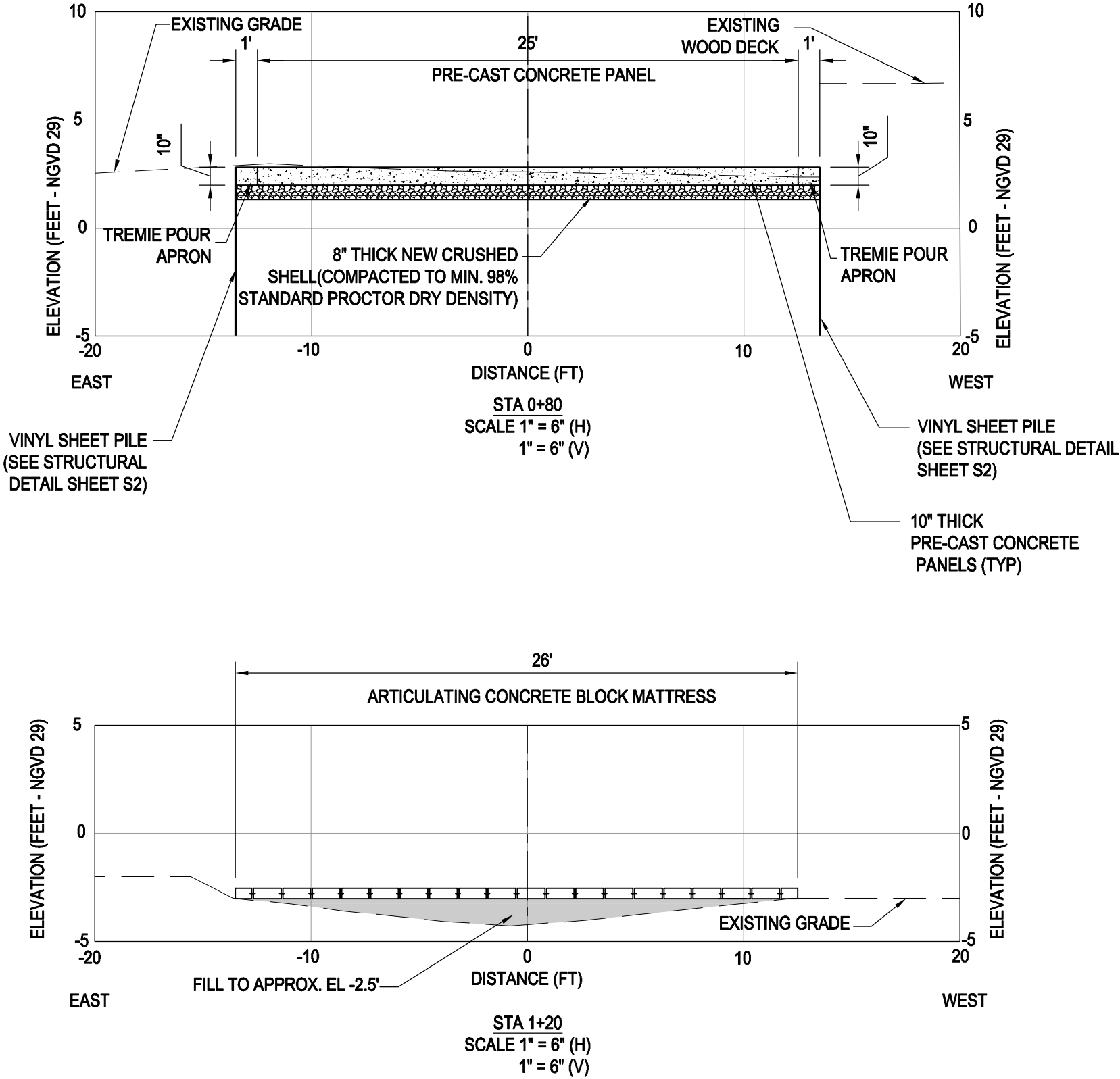
JIGGS LANDING BOAT RAMP IMPROVEMENTS MANATEE COUNTY BRADENTON, FLORIDA	LONGITUDINAL SECTION
--	----------------------

Erickson Consulting Engineers, Inc. 7201 Delaney Court Sarasota, FL 32420 (941) 373-6460	ECB Erickson Consulting Engineers
---	--------------------------------------

DRAWING NUMBER E4	SHEET 4 OF 10
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WATER LEVEL DATA
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AVERAGE HIGH WATER LEVEL = 4.25' NGVD 1929
DAILY MEAN WATER LEVEL = 4.0' NGVD 1929
AVERAGE LOW WATER LEVEL = 1.8' NGVD 1929
HISTORICAL LOW WATER LEVEL = -3.1' NGVD 1929



Signature

Karyn M. Erickson
Professional Engineer #41897

KARYN M. ERICKSON

LICENSE

No: 41897

STATE OF FLORIDA

PROFESSIONAL ENGINEER

REMARKS

DESIGNED
BC

DRAWN
AS

CHECKED
KE

REV.
No.

DATE

DATE
08-12-14

JOB NO. 12-245

SCALE: AS NOTED

JIGGS LANDING BOAT RAMP IMPROVEMENTS
MANATEE COUNTY
BRADENTON, FLORIDA

CROSS SECTIONS

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 34220
(941) 373-6460

ECPE

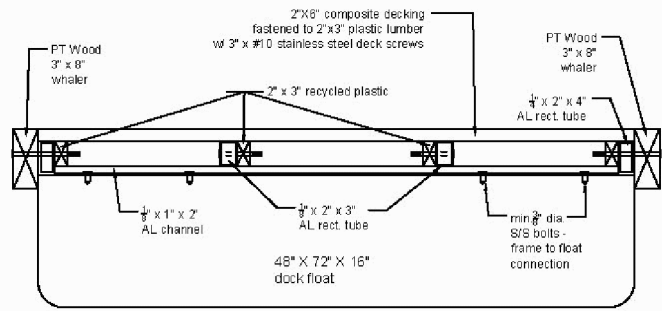
Erickson Consulting Engineers

DRAWING NUMBER

E5

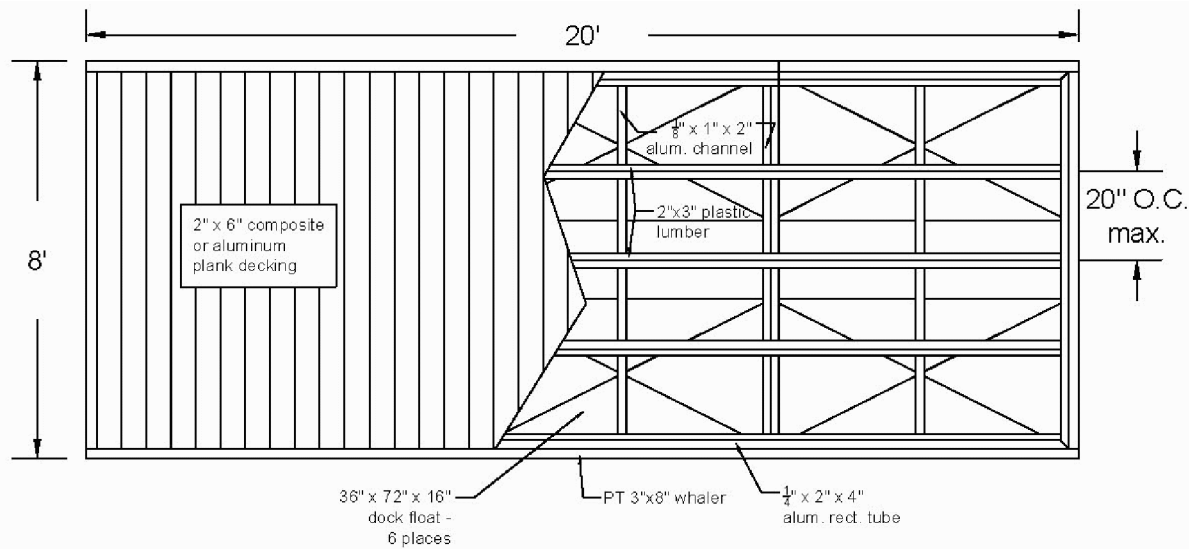
SHEET 5 OF 10

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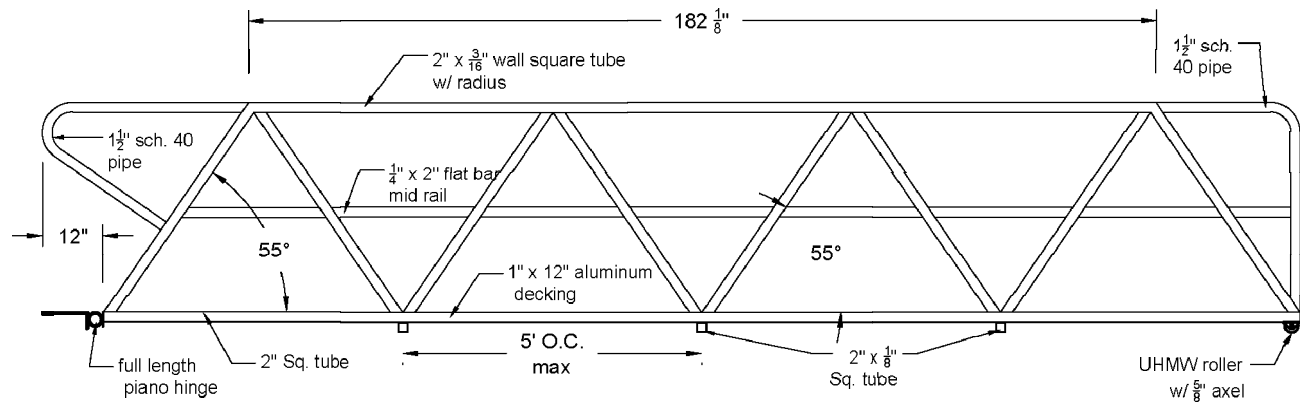


- NOTES:
- All aluminum components to be either 6061 T6 or 6063 T52
 - All welds to be full fillet by AWS Certified welders
 - Floats to be industry standard encasement type with EPS foam fill
 - All fasteners to be stainless steel
 - Minimum 50 PSF live load
 - Outside frame/whaler to be isolated from aluminum with #15 tar/felt paper
 - Decking options include aluminum plank, composite or IPE hardwood

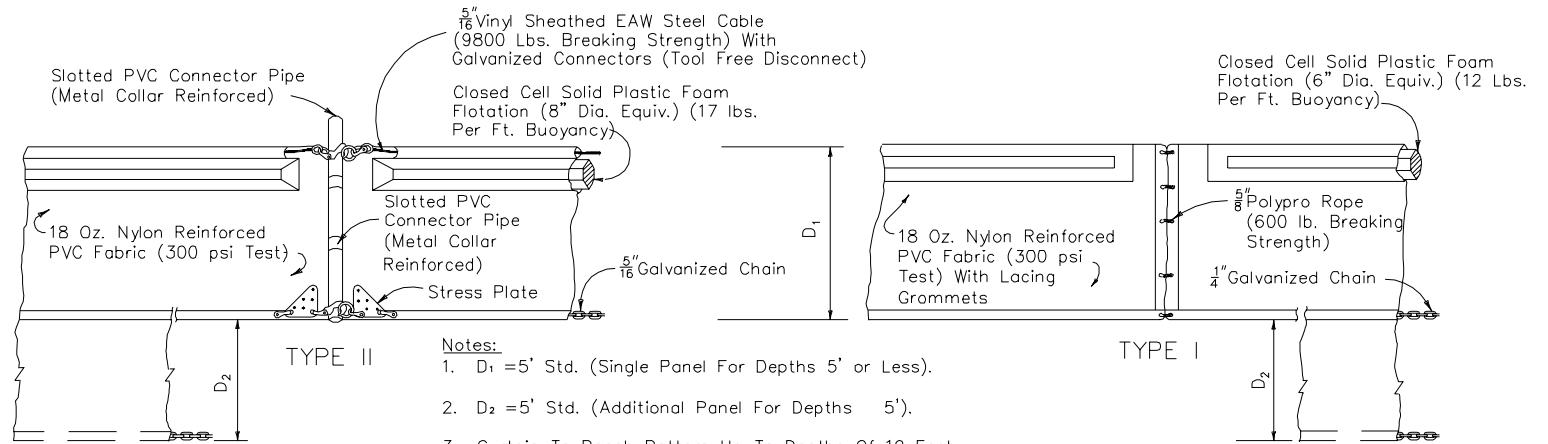
TYPICAL 6' WIDE FLOATING DOCK SECTION
NOT TO SCALE



TYPICAL 8'W X 25'L FLOATING DOCK
NOT TO SCALE



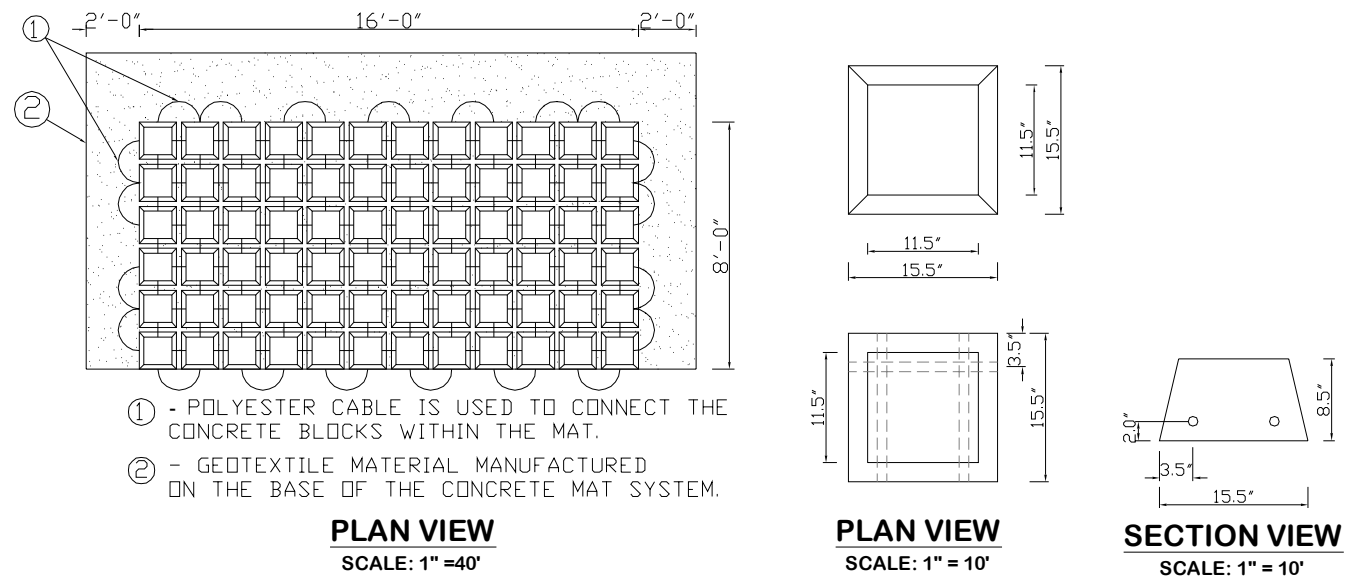
5' X 20' ALUMINUM GANGWAY - SIDE ELEVATION
NOT TO SCALE



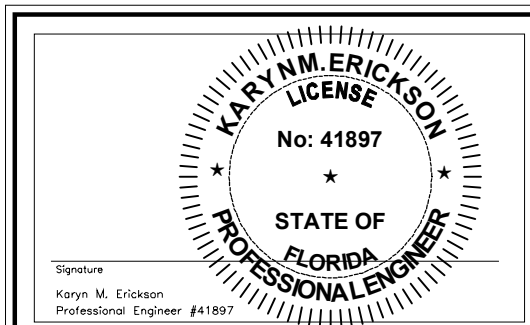
- Notes:
1. D₁ = 5' Std. (Single Panel For Depths 5' or Less).
 2. D₂ = 5' Std. (Additional Panel For Depths 5').
 3. Curtain To Reach Bottom Up To Depths Of 10 Feet.
 4. Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.
 5. Refer to FDOT Standard Spec #104 for Floating Turbidity Barriers.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER
FDOT INDEX #103
NOT TO SCALE



8.5" THICK ARTICULATED CONCRETE BLOCK MATTRESS

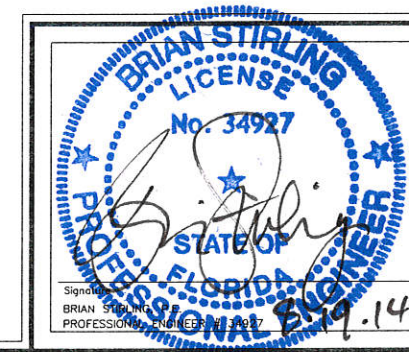
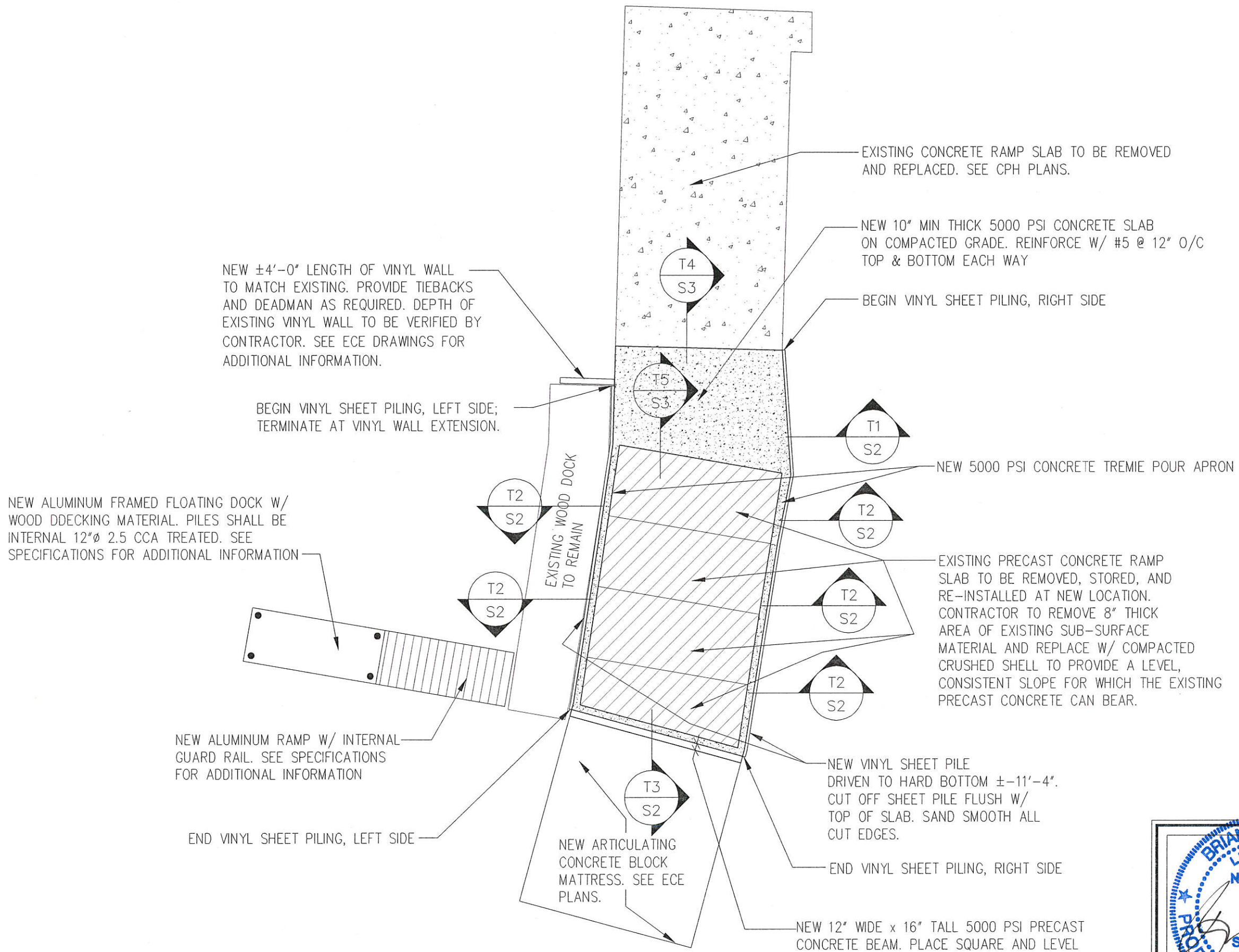


JIGGS LANDING BOAT RAMP IMPROVEMENTS
MANATEE COUNTY
BRADENTON, FLORIDA

CONSTRUCTION DETAILS

Erickson Consulting Engineers, Inc.
7201 Delaney Court
Sarasota, FL 32420
(941) 373-6460

DRAWING NUMBER
E6
SHEET 6 OF 10



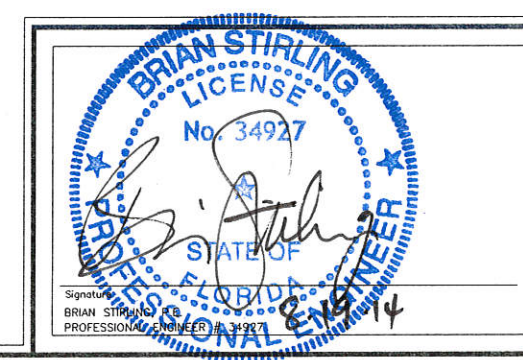
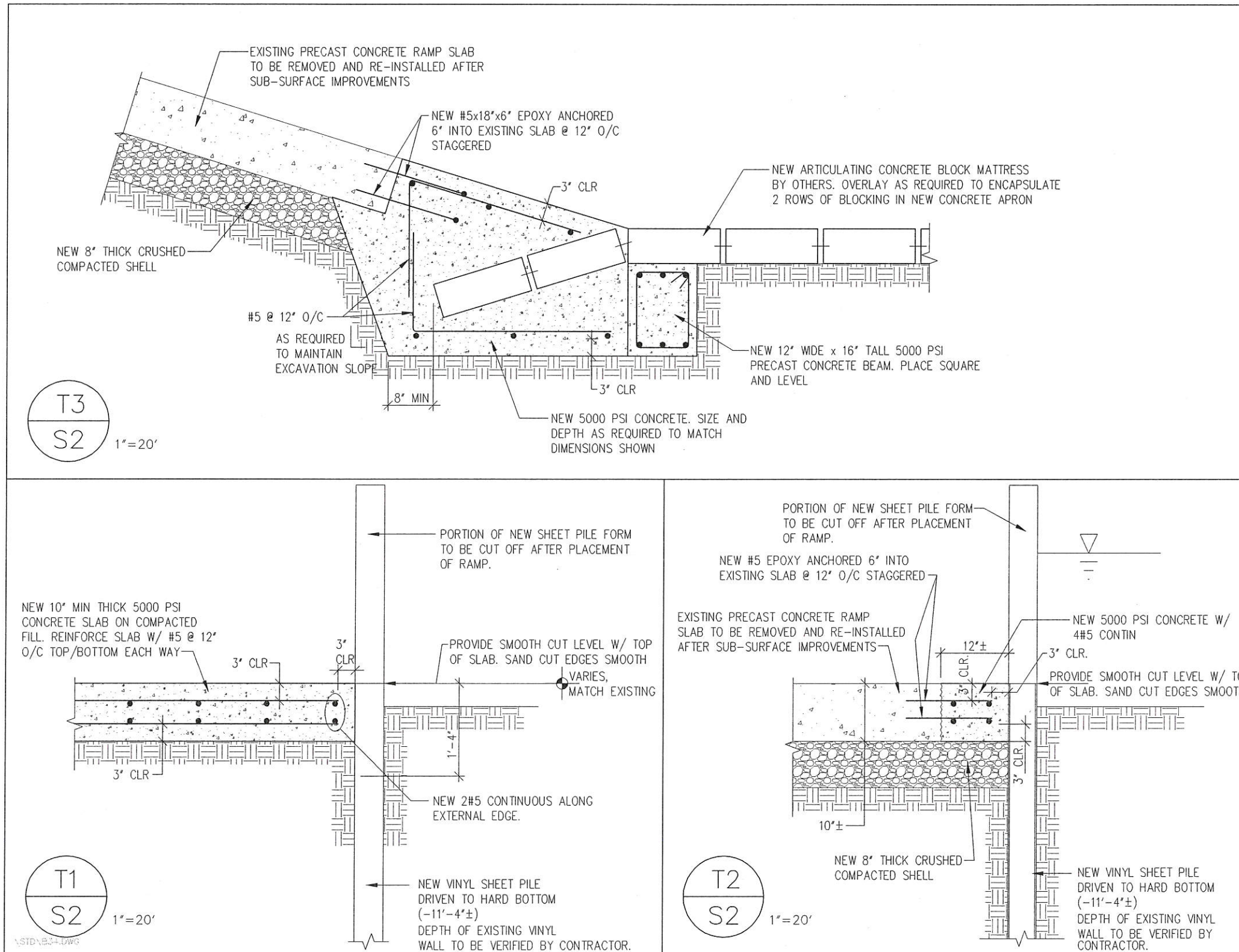
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DESIGNED	DRAWN	CHECKED	DATE	SCALE
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JOB NO. 12-245		SCALE: AS NOTED		

JIGGS LANDING BOAT RAMP IMPROVEMENTS MANATEE COUNTY BRADENTON, FLORIDA	STRUCTURAL SITE PLAN
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EB542

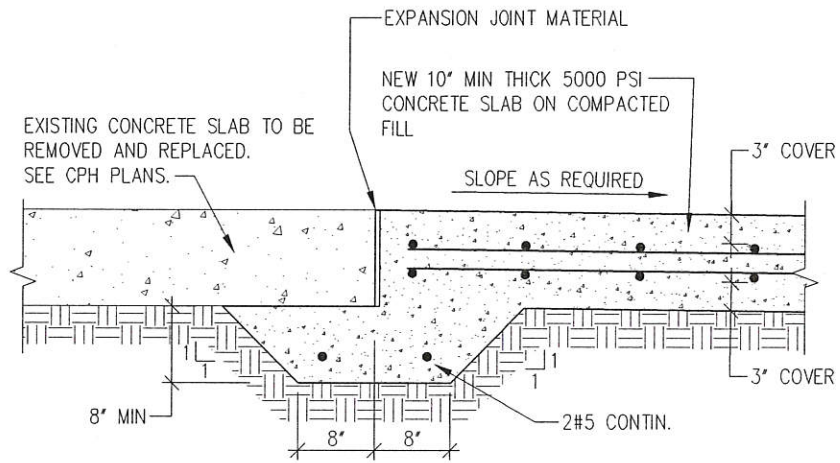
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SHEET 7 OF 10



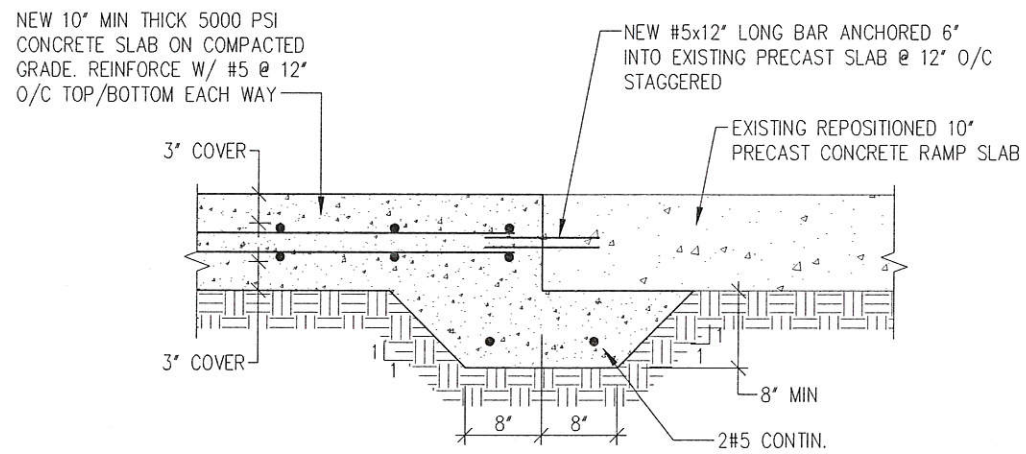
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STRUCTURAL SECTIONS				REV	DATE	DRAWN BY	CHD BY
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DATE:			08-12-2014				
JOB NO.			12-245				
SCALE:			AS NOTED				

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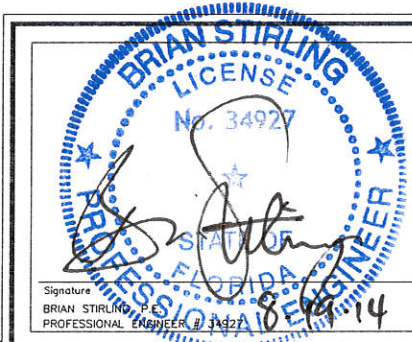
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T4
S3
1"=20'



T5
S3
1"=20'



REV.	DATE	BY	CHKD	REMARKS

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DATE:	08-12-2014	
JOB NO.	12-245	
SCALE:	AS NOTED	

JIGGS LANDING BOAT RAMP IMPROVEMENTS MANATEE COUNTY BRADENTON, FLORIDA	STRUCTURAL SECTIONS
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S3
SHEET 9 OF 10

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GENERAL NOTES

DESIGN:

1. THE STRUCTURE DESCRIBED ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION.

GENERAL:

1. ALL DIMENSIONS, OTHER THAN PURELY STRUCTURAL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE CHECKED AGAINST THE ON SITE CONDITIONS. REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK.
2. DO NOT SCALE THE DRAWINGS.
3. NO PROVISION HAS BEEN MADE IN THE STRUCTURAL DESIGN FOR TEMPORARY CONDITIONS OCCURRING DURING CONSTRUCTION UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING REQUIRED TO RESIST STRESSES OR INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION, THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR SUCH MEASURES.
4. ALL CODES AND STANDARDS REFERRED TO ARE LATEST EDITIONS INCLUDING LATEST REVISIONS AND ADDENDA
5. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING COMPONENTS, NOTED DISTRESSED AREAS, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL COMPONENTS. THE CONTRACTOR SHALL ALSO ESTABLISH EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO PROCEEDING.
6. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING DEMOLITION PHASE AS TO ENSURE THAT THE FOUNDATIONS AND SLABS OF THE STRUCTURES AND SLABS TO REMAIN, ARE NOT UNDERMINED OR THAT THE SOIL SUPPORT IS NOT COMPROMISED. REFER TO PLANS OF EXISTING STRUCTURES IN "GOVERNMENT'S" POSSESSION FOR MORE INFORMATION.
7. REMOVE AND LEGALLY DISPOSE ALL DEMOLITION DEBRIS TO AN APPROVED SITE.
8. ENGINEER MUST BE CONTACTED 48 HOURS PRIOR TO EACH POUR OF ANY STRUCTURAL CONCRETE.
9. DO NOT DISPOSE OF ANY MATERIALS INTO THE WATER.

FOUNDATIONS:

1. BACK FILLING AND COMPACTION:
- A. BACK FILL ONLY WITH APPROVED MATERIAL. FOLLOW BACK FILLING RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT IN THE ABSENCE OF SUCH INFORMATION, AND UNLESS NOTED OTHERWISE, BACK FILL IN 8" (MAX.) HIGH LIFTS, COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DRY DENSITY. CONTRACTOR SHALL SUBMIT PROPOSED FILL AND DRAINAGE MATERIAL FOR REVIEW BY ENGINEER PRIOR TO COMMENCEMENT OF PROJECT.

CONCRETE NOTES

GENERAL

1. ALL CONCRETE MATERIALS BATCHING AND WORKMANSHIP SHALL CONFORM TO THE FOLLOWING:
- ACI 304 CONCRETE PLACED UNDER WATER
- ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- ASTM C94 READY MIX CONCRETE

MATERIALS:

1. CONCRETE MINIMUM COMPRESSIVE STRENGTH(S) FOR CONCRETE SHALL BE AS NOTED ON THE STRUCTURAL PLANS, SLUMP 4" +/- 1" WITH A MAXIMUM WATER-TO-CEMENT RATIO OF 0.35, (5,000 PSI), 046 (3000 PSI). PROVIDE FLY ASH SUBSTITUTION TO 20% OF CEMENT CONTENT, ADD 50 LBS OF SILICA FUME PER CUBIC YARD OF MATERIAL. IN ALL CONCRETE PROVIDE A HIGH RANGE WATER REDUCING ADMIXTURE CONFORMING TO ASTM C260; ALL OTHER ADMIXTURES SHALL CONFORM TO ASTM C494 AND SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ADD CORROSION INHIBITOR ADMIXTURE PER MANUFACTURER'S RECOMMENDATIONS.
2. SUBMIT MIX DESIGN(S) FOR REVIEW BY THE ENGINEER OF RECORD A MINIMUM OF 7 DAYS PRIOR TO INITIAL CONCRETE POUR.
3. ALL MILD REINFORCEMENT SHALL BE MFX 2 REBAR (ASTM A615 GRADE 75 AND ASTM A1035-04).

EXECUTION:

1. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED TO CONFORM WITH THE ACI DETAILING MANUAL. ACI SP-66.
2. MINIMUM REINFORCING STEEL LAP SPLICE LENGTH, UNLESS NOTED OTHERWISE, IS 36X BAR DIAMETER.
3. POUR STRUCTURAL CONCRETE WITHIN THE FOLLOWING TOLERANCES
- VARIATION FROM PLUMB: 1/4" IN 10'-0".
- VARIATION FROM LEVEL IN TOPS OF SLABS, AND BEAM: 1/8" IN 10'-0".
4. INSERTS, SLEEVES, CONDUITS, FASTENERS, ETC, WHERE REQUIRED BY THE DOCUMENTS, SHALL BE INSTALLED SO AS NOT TO IMPAIR THE INTEGRITY OF THE STRUCTURE, AND IN A MANNER WHICH WILL NOT REQUIRE THE BENDING, CUTTING OR DISPLACEMENT OF THE REINFORCEMENT.
5. FOR READY MIX CONCRETE THE MAXIMUM TIME PERMITTED BETWEEN BATCHING AND DEPOSITING THE FORM WORK IS 90 MINUTES, CONCRETE NOT PLACED WITHIN THIS TIME LIMIT SHALL BE REJECTED.
6. THE ADDITION OF MIX WATER AT THE SITE TO INCREASE THE CONCRETE SLUMP SHALL NOT BE ALLOWED AND SHALL BE CAUSE FOR REJECTION OF THAT BATCH OF CONCRETE.
7. OPENINGS OR FASTENERS REQUIRED AFTER CONCRETE PLACEMENT SHALL BE INSTALLED ONLY WITH THE APPROVAL OF THE ENGINEER.
8. PLACEMENT OF CONCRETE TO BE POURED BELOW WATER SHALL BE COORDINATED WITH MAXIMUM LOW TIDE PERMISSIBLE.
9. SUBMIT SHOP DRAWINGS FOR REINFORCEMENT DETAILING, BENDING, AND PLACING OF CONCRETE REINFORCEMENT.
10. FOR ALL CONCRETE SURFACES WHERE LEGS OF SUPPORT DEVICES ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS THAT ARE STAINLESS STEEL (CRSI, CLASS2).
11. ALL CONCRETE SHALL BE WET CURED FOR A MINIMUM OF 3 DAYS.
12. PROVIDE CONCRETE TESTING OF CONCRETE MATERIAL CONFIRMING DESIGN STRENGTHS.
13. PROVIDE 1/4" DEEP x 1/4" WIDE GROOVES IN RAMP SLAB AT 1/2" O/C. TEXTURE IS A MINIMUM PROFILE. CONTRACTOR TO PROVIDE MEANS AND METHODS OF TEXTURE INSTALLATION W/ BID.



REVISIONS		CHG		BY		DATE		JOB NO. 12-245		SCALE: AS NOTED	
REMARKS		DRAWN		AS		DATE		JOB NO. 12-245		SCALE: AS NOTED	
JIGGS LANDING BOAT RAMP IMPROVEMENTS		MAYATEE COUNTY		BRADENTON, FLORIDA		STRUCTURAL GENERAL NOTES		STIRLING & WILBUR		ENGINEERING GROUP	
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