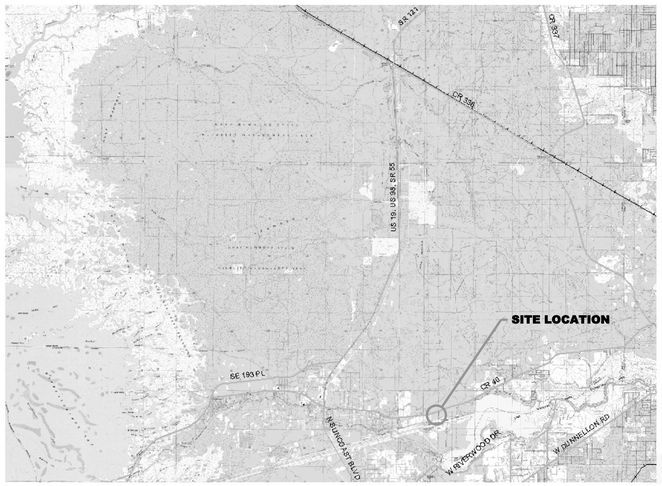
SITE AND STRUCTURE PLANS

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

Florida Power Corporation dba Progress Energy Florida, Inc.,(PEF)
299 First Avenue North, PEF-903, St. Petersburg, FL 33701

Horizontal Coordinate System Definition:
Planar:
Grid Coordinate System:
Grid Coordinate System Name: Universal Transverse Mercator
Universal Transverse Mercator:
UTM Zone Number: 17
Transverse Mercator:
Scale Factor at Central Meridian: 0.999600
Longitude of Central Meridian: -81.000000
Latitude of Projection Origin: 0.000000
False Easting: 500000.000000
False Northing: 0.000000
Planar Coordinate Information:
Planar Coordinate Encoding Method: row and column
Coordinate Representation:
Abscissa Resolution: 2.438470
Ordinate Resolution: 2.438400
Planar Distance Units: meters
Geodetic Model:
Horizontal Datum Name: North American Datum of 1983
Ellipsoid Name: Geodetic Reference System 80
Semi-major Axis: 6378137.000000
Denominator of Flattening Ratio: 298.257222



SITE LOCATION MAP
NOT TO SCALE

South Access Road Schedule

From Route 40 to the Boat Slip

Activity Description	Month Duration Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Notice to Proceed	0																				
Mobilization	1																				
Access Road																					
Erosion Control	1																				
Clear and Grub - Access Road from Rte 40 to boat slip	1																				
Strip topsoil and proofroll	1																				
Excavation along CFBC to boat slip	2																				
Install Access Road fills and road base.	2																				
Install Access Road Drainage Pipes and Features	1																				
Final grading Access Road and disturbed Area	1																				
Reseed shoulders	1																				
Access Road Bridge																					
Mobilize Drilled shaft labor and equipment	1																				
Install Access Bridge drilled shafts	2																				
Access Bridge substructure	2																				
Access Bridge Superstructure	2																				
Access Bridge approach slabs and expansion Joints	1																				
Boat Slip																					
Mobilize boat slip labor and equipment	1																				
Clear and Grub boat slip area	1																				
Install floating turbidity barrier and other erosion controls	1																				
Initial boat slip excavation	4																				
Install boat slip sheet pile wall	4																				
Install sheet pile wall tiebacks and supports	2																				
Complete boat slip excavation and earthwork	1																				
Install boat slip drainage pipes and features	1																				
Install RipRap	1																				
Install concrete structures and bollards	2																				
Reseed disturbed areas	1																				

ACCESS ROAD SCHEDULE

STATE PLANE NORTH
TRUNCATED NORTH

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
LNG-GI-XS-044	SITE AND STRUCTURE PLANS TITLE SHEET
LNG-GI-XS-045	PROPOSED ACCESS ROAD OVERALL SITE GRADING PLAN & PROFILE
LNG-GI-XS-046	STORMWATER/GRADING & EROSION CONTROL PLAN
LNG-GI-XS-047	STORMWATER/GRADING & EROSION CONTROL PLAN
LNG-GI-XS-048	STORMWATER/GRADING & EROSION CONTROL PLAN
LNG-GI-XS-049	STORM WATER & EROSION CONTROL DETAILS
LNG-GI-XS-050	PROPOSED ACCESS ROAD CROSS SECTIONS STA. 0+00 - 8+50
LNG-GI-XS-051	PROPOSED ACCESS ROAD CROSS SECTIONS STA. 9+00 - 16+50
LNG-GI-XS-052	PROPOSED ACCESS ROAD CROSS SECTIONS STA. 17+00 - 18+00
LNG-GI-XS-053	PROPOSED ACCESS ROAD CROSS SECTIONS STA. 18+50 - 25+00
LNG-GI-XS-054	PROPOSED ACCESS ROAD CROSS SECTIONS STA. 25+50 - 30+50
LNG-GI-XS-055	PROPOSED ACCESS ROAD STORM DRAINAGE AREA MAP
LNG-GI-XS-056	SEDIMENT & EROSION CONTROL NOTES AND DETAILS
LNG-GI-XM-000001	BOAT SLIP EXISTING CONDITIONS
LNG-GI-XM-000002	BOAT SLIP GENERAL ARRANGEMENT PLAN
LNG-GI-XM-000003	BOAT SLIP SECTIONS
LNG-X001-C2-001	ACCESS ROAD BYPASS CHANNEL BRIDGE PLAN AND ELEVATION
LNG-X001-C2-003	ACCESS ROAD BYPASS CHANNEL BRIDGE TYPICAL CROSS SECTION

FOR PERMITTING

PE STAMP

SHAW NUCLEAR
STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

WEC SAFETY CLASSIFICATION: E

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE
SITE AND STRUCTURE PLANS TITLE SHEET

Shaw Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: NTS
DATE: 6/17/08

SIZE: E
DRAWING NUMBER: LNG-G1-XS-044
REV NO: 2

REVISION

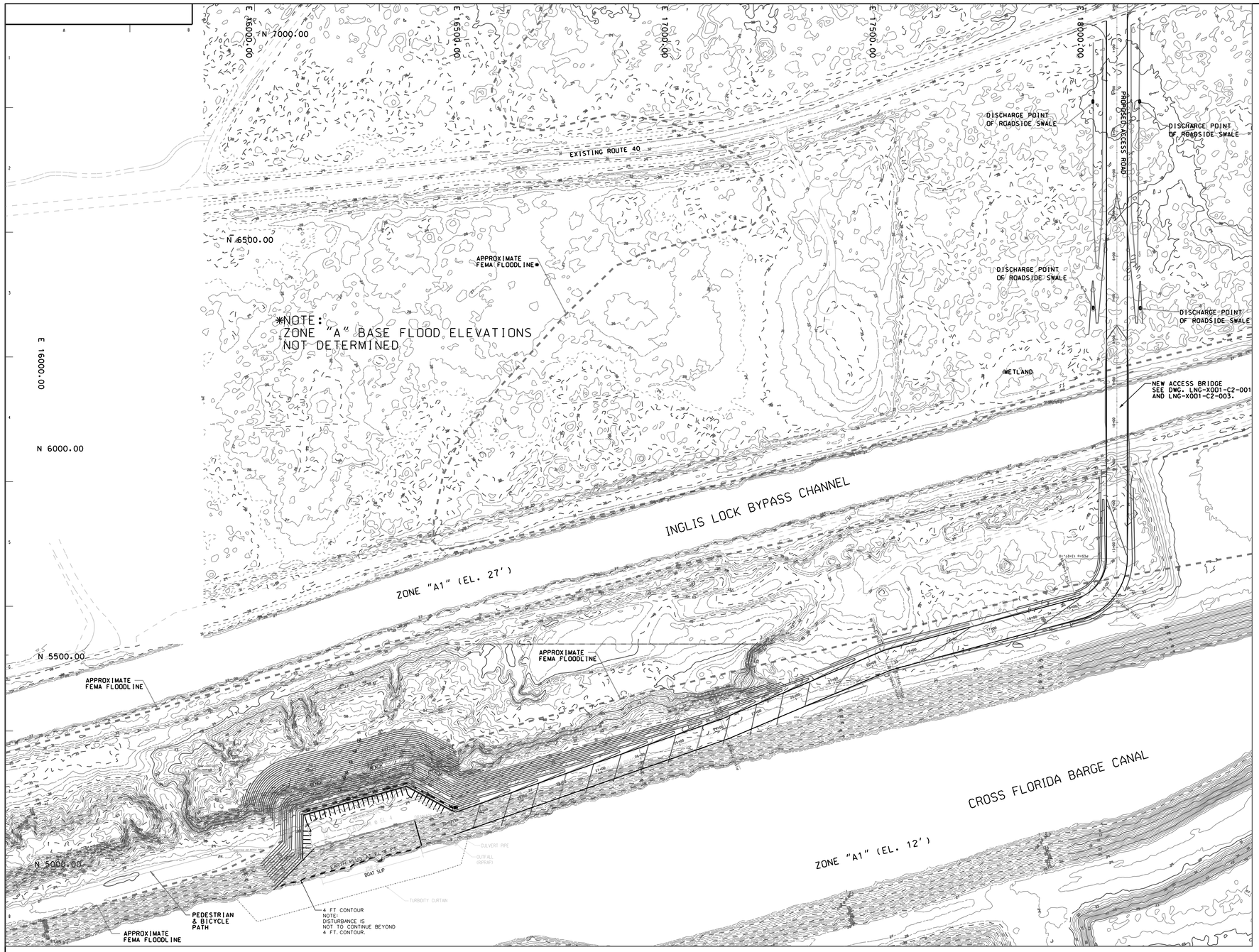
	REVISION DESCRIPTION	TITLE	APPR	DATE
2	REMOVED DWG. LNG-GIPI-X3-008 FROM DWG LIST	PE		
		DV		
		LE		
		RE		

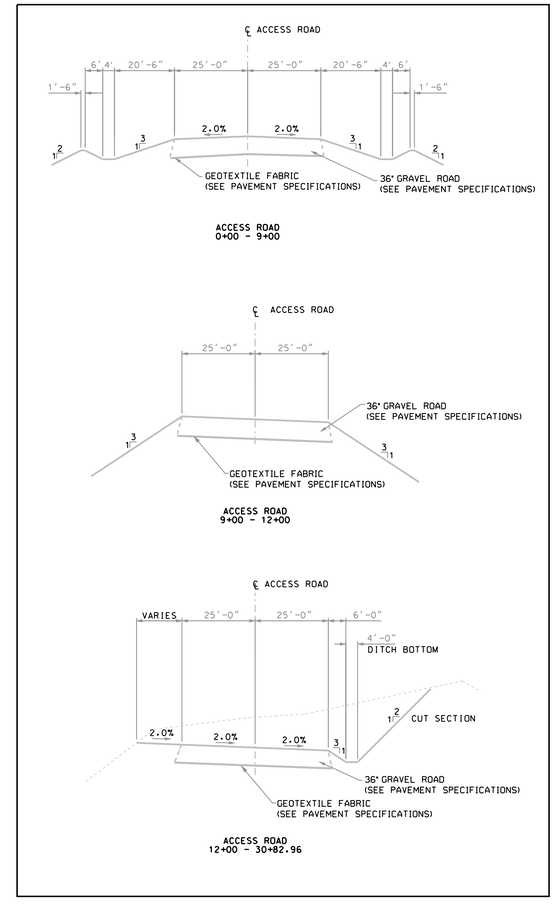
REVIEW

CSA		MECHANICAL						ELECT/INSTR	
ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

THIS DRAWING CREATED ELECTRONICALLY

N:\LNG\PE\CAD\construction\GIP Permit\MB Scale Sheets\Permit 1 Drawings\XS South Road\LNG-GI-XS-044.dgn
dbeardsley
Wed Jun 18 08:08:
8.252k MK



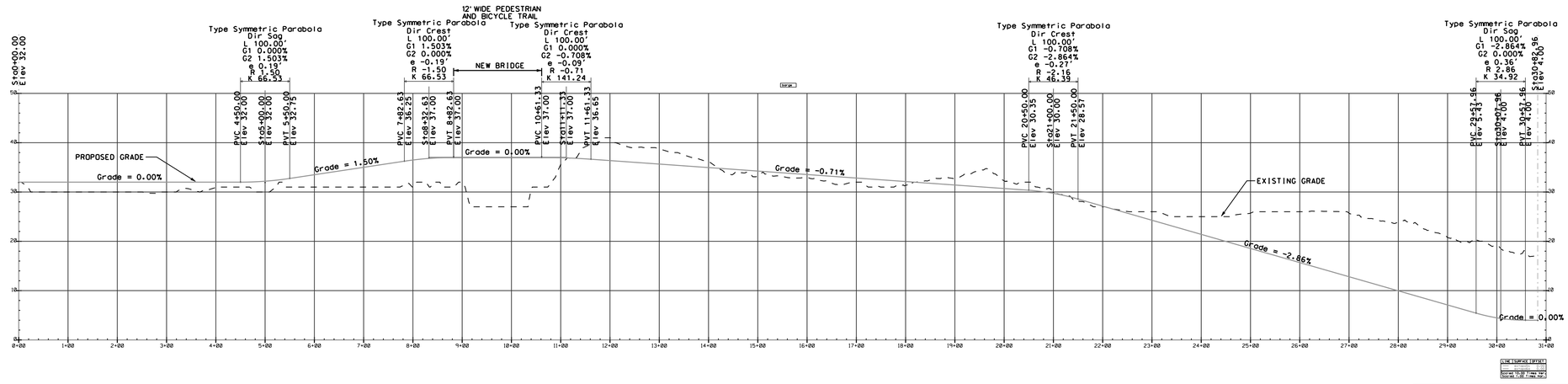


TYPICAL SECTIONS

FOR EROSION CONTROL - SEE SHEETS:
LNG-G1-XS-046 TO LNG-G1-XS-049

CONTOURS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

FEMA FLOOD PLAIN CONVERTED TO NAVD88 FROM NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)



GRAPHIC SCALE
100 50 0 100 200FT
SCALE: 1''= 100'

FOR PERMITTING

SHAW NUCLEAR
STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

PE STAMP

WEC SAFETY CLASSIFICATION: E

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE
PROPOSED ACCESS ROAD OVERALL SITE GRADING PLAN & PROFILE

REVISION	REVISION DESCRIPTION	TITLE	APPR	DATE
2	REVISED BASED ON 4 FT. ELEV. EARTHPLUG	PE		
		DV		
		LE		
		RE		

REVIEW	CSA		MECHANICAL					ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

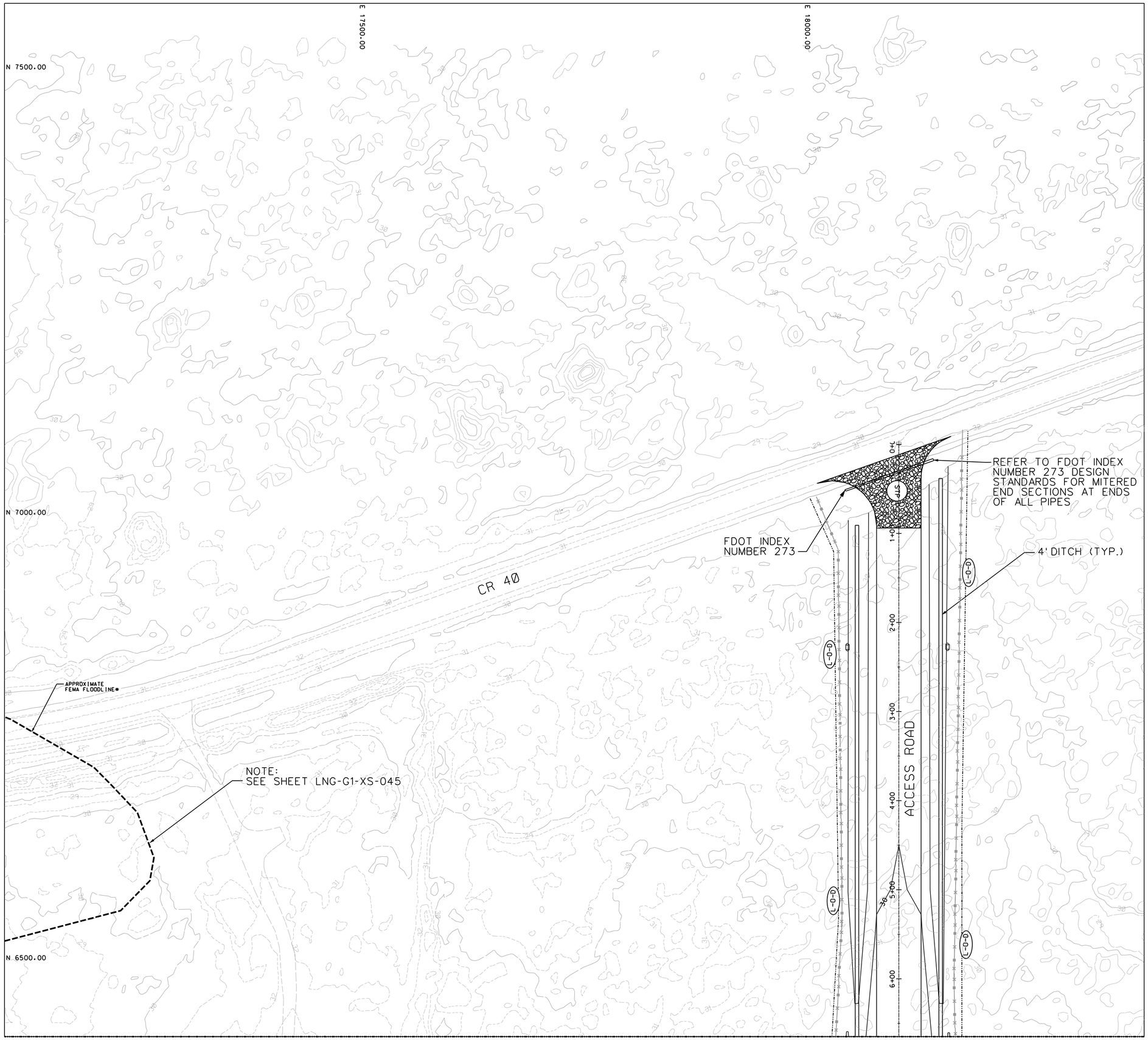
DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: AS SHOWN
DATE: 6/17/08

Shaw Nuclear

SIZE	DRAWING NUMBER	REV NO.
E	LNG-G1-XS-045	2

THIS DRAWING CREATED ELECTRONICALLY

T:\LNG\PROJ\Construction\CAD Permit\388 South Shore\Permit 1 Drawings\XS South Road\LNG-G1-XS-045.dgn
Steve Lasko
Civil Group
SHEAR 2W



MATCHLINE SEE DRAWING LNG-G1-XS-047

GRAPHIC SCALE

40 20 0 40 80FT

SCALE: 1'' = 40'

N

LEGEND

— 35.00 —	PROPOSED MAJOR CONTOUR
—— 35.00 -	PROPOSED MINOR CONTOUR
– – 35.00 – –	EXISTING MAJOR CONTOUR
------ 35.00 -	EXISTING MINOR CONTOUR
STP	SOIL TRACKING PREVENTION
ECM	EROSION CONTROL MATTING OR SOD
	STANDARD FILTER FABRIC
	CONCRETE CHECK STRUCTURE
	INLET PROTECTION
	NEW EDGE OF ROAD
	EXISITNG EDGE OF ROAD
	RIPRAP
	NEW STORM PIPE
D	NEW FLARED END SECTION
L-O-D	LIMIT OF DISTURBANCE
MHW	MEAN HIGH WATER

THE SITE IS RELATIVELY FLAT AND GENERALLY CONSIST OF UNSUITABLE SOILS. BUILDING THE ROADS AND BOAT SLIP IS INTENDED AS FOLLOWS:

1. PROVIDE SEDIMENT AND EROSION CONTROL IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILS SHOWN ON DRAWING LNG-G1-XS-049.

2. STRIP THE VEGETATION AND TOP SOIL. ALL ROADWAY SUBGRADES SHALL BE STRIPPED OF TOP SOIL AND ROOTS. PRIOR TO PLACEMENT OF SUBBASE, THE SUBGRADE SHALL BE PROOF ROLLED USING A LOADED TRUCK OR SCRAPER. ANY AREAS EXHIBITING "PUMPING" SHALL BE REINFORCED WITH RIPRAP AS STATED IN THE PAVING SPECIFICATIONS

3. INSTALL GEOTEXTILE IN ACCORDANCE WITH THE PAVING SPECIFICATIONS. THE GEOTECHNICAL ENGINEER SHALL EVALUATE THE CONDITION OF THE SOIL GRADE BEFORE PLACEMENT OF THE GEOTEXTILE AND SELECTION OF THE STONE IN ACCORDANCE WITH THE PAVING SPECIFICATIONS. UNDERCUT IS NOT INTENDED FOR PAVEMENT PREPARATION AND "BUILDING UP" OF THE PAVEMENT GRADES IS THE INTENTION OF STABILIZATION DUE TO THE ANTICIPATED GROUNDWATER AND SOIL CONDITIONS.

4. CONSTRUCT THE PAVEMENT IN ACCORDANCE WITH THE PAVING SPECIFICATIONS.

5. CONTOURS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

FOR PERMITTING

REVISION		TITLE	APPR	DATE
A	REVISION DESCRIPTION	PE		
		DV		
		LE		
		RE		

REVIEW	CSA		MECHANICAL						ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

PE STAMP

WEC SAFETY CLASSIFICATION:

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

STORMWATER/GRADING & EROSION CONTROL PLAN

Shaw® Nuclear

DESIGNED BY: DEB

CHECKED BY: JVS

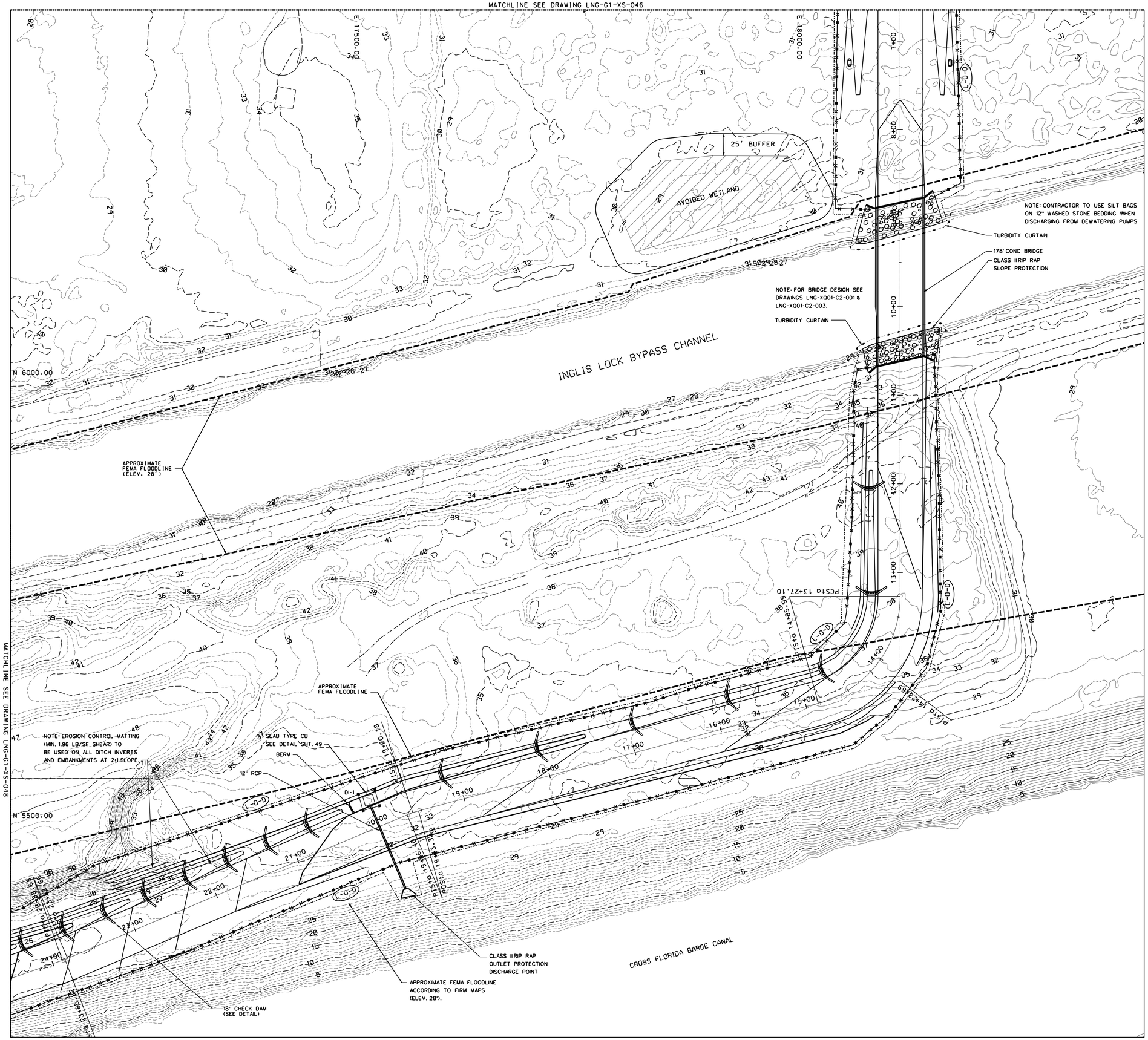
SCALE: AS SHOWN

DATE: 5/01/08

SIZE	DRAWING NUMBER	REV NO
E	LNG-G1-XS-046	A

THIS DRAWING CREATED ELECTRONICALLY

WELEA
ELECTRONIC
MODELS
ITEM#



LEGEND

— 35.00 —	PROPOSED MAJOR CONTOUR
—— 35.00 -	PROPOSED MINOR CONTOUR
-- 35.00 --	EXISTING MAJOR CONTOUR
------ 35.00 -	EXISTING MINOR CONTOUR
STP	SOIL TRACKING PREVENTION
ECM	EROSION CONTROL MATTING OR SOD
	STANDARD FILTER FABRIC
	CONCRETE CHECK STRUCTURE
	INLET PROTECTION
	NEW EDGE OF ROAD
	EXISITNG EDGE OF ROAD
	RIPRAP
	NEW STORM PIPE
	NEW FLARED END SECTION
L-O-D	LIMIT OF DISTURBANCE
MHW	MEAN HIGH WATER

CONTOURS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

FOR PERMITTING

GRAPHIC SCALE

40 20 0 40 80FT

SCALE: 1'' = 40'

CROSS PIPES AND DRAINAGE STRUCTURES

STRUCTURE				SWALE	STORM PIPE					ROAD
NUMBER	TYPE	STD. * SEE SHT. 49	WEIR ELEV.	BOTTOM ELEV.	INVERT OUT ELEV.	LENGTH	SLOPE	SIZE	MATERIAL	ELEV. AT CENTERLINE
1	DI SLAB TYPE	DETAIL SHEET DETAIL 2	28.30	27.50	24.00	65	1.5%	30"	HDPE	30.00
2	DI SLAB TYPE	DETAIL SHEET DETAIL 2	3.00	1.50	0.00	0.00	0.00	0.00	HDPE	4.00

RIP RAP APRON DIMENSIONS

NUMBER	LENGTH (ft)	WIDTH AT END OF APRON (ft)	AREA (sf)
1	18.00	15.00	108
2	10.00	12.00	50

NO	REVISION DESCRIPTION	TITLE	APPR	DATE
1	REVISED BYPASS BARGE CANAL TO INGLIS LOCK CHANNEL	PE	DS	5/22/08
		DV	N/A	5/22/08
		LE	GG	5/22/08
		RE	DW	5/22/08

REVIEW	CSA		MECHANICAL						ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PE STAMP

SHAW NUCLEAR
STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

WEC SAFETY CLASSIFICATION: E

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE: STORMWATER/GRADING & EROSION CONTROL PLAN

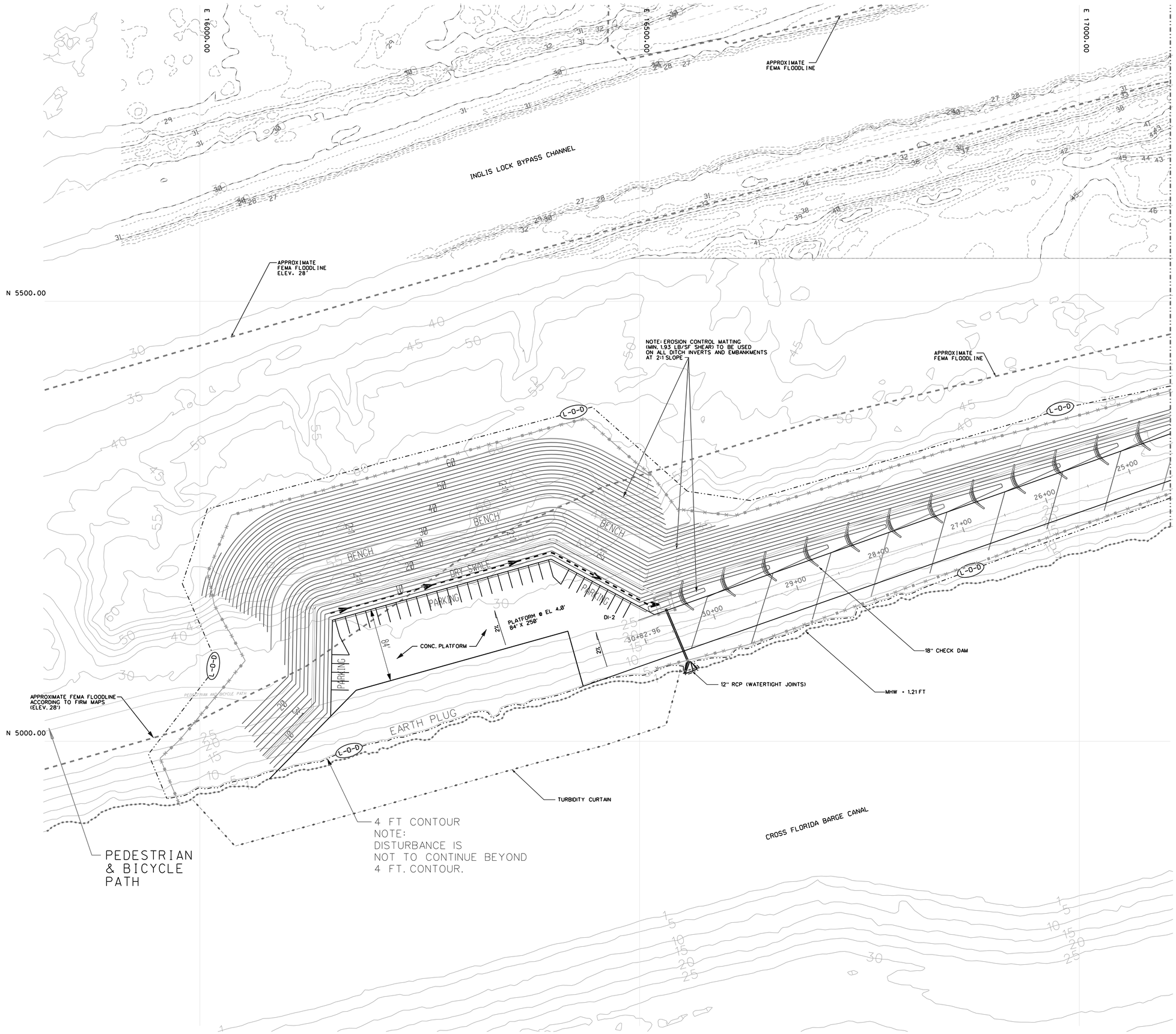
Shaw Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: AS SHOWN
DATE: 5/22/08

SIZE: E
DRAWING NUMBER: LNG-G1-XS-047
REV NO: 1

THIS DRAWING CREATED ELECTRONICALLY LNG-G1-XS-047.DGN 5/22/08

WELD: BLUEDRAWER BLUEDRAWER STONE



NOTE:
*RIP RAP TO BE ADDED AT THE TIME OF TEMPORARY EARTH BERM REMOVAL. TEMPORARY EARTH BERM WILL BE REMOVED AFTER OBTAINING SCA PERMIT.

GRAPHIC SCALE
40 20 0 40 80FT
SCALE: 1'' = 40'

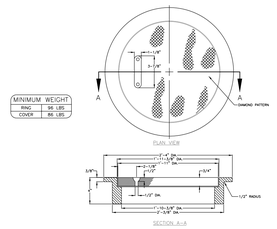
LEGEND

35.00	PROPOSED MAJOR CONTOUR
35.00	PROPOSED MINOR CONTOUR
35.00	EXISTING MAJOR CONTOUR
35.00	EXISTING MINOR CONTOUR
STP	SOIL TRACKING PREVENTION
ECM	EROSION CONTROL MATTING OR SOD
	STANDARD FILTER FABRIC
	CONCRETE CHECK STRUCTURE
	INLET PROTECTION
	NEW EDGE OF ROAD
	EXISITNG EDGE OF ROAD
	RIPRAP
	NEW STORM PIPE
D	NEW FLARED END SECTION
L-O-D	LIMIT OF DISTURBANCE
MHW	MEAN HIGH WATER

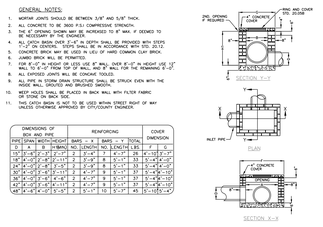
CONTOURS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

FOR PERMITTING

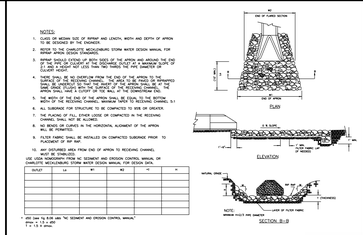
| REVISION | | |



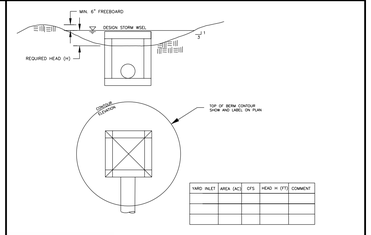
1. MANHOLE RING AND COVER



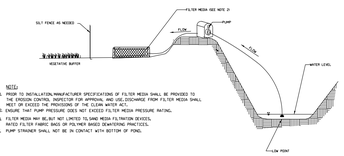
2. SLAB TYPE CATCH BASIN



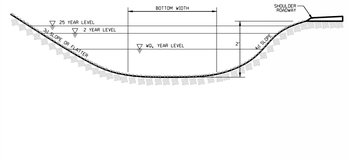
3. RIP RAP APRON AT PIPE OUTFALL



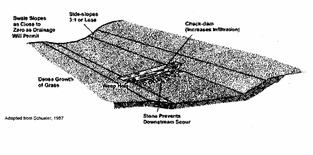
4. GRADING AT DROP INLET



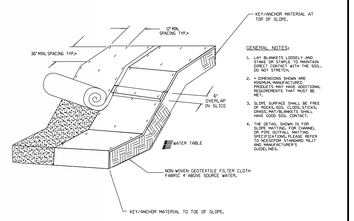
5. DEWATERING



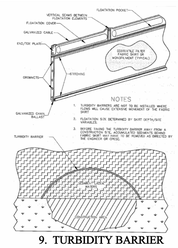
6. DRY SWALE



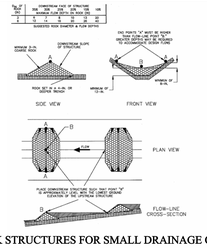
7. DRY SWALE WITH CHECK DAM



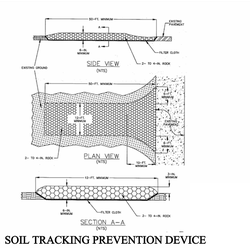
8. MATTING



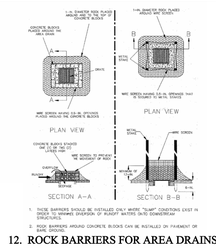
9. TURBIDITY BARRIER



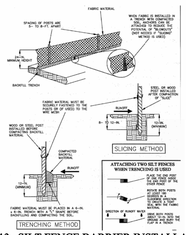
10. ROCK CHECK STRUCTURES FOR SMALL DRAINAGE CHANNELS



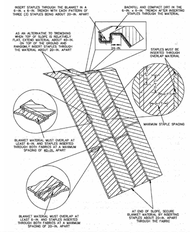
11. SOIL TRACKING PREVENTION DEVICE



12. ROCK BARRIERS FOR AREA DRAINS



13. SILT FENCE BARRIER INSTALLATION



14. INSTALLING A DISTURBED SLOPE RECP

FOR PERMITTING

PE STAMP

(SN) QA CATEGORY:

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PROGRESS ENERGY FLORIDA, INC

PROGRESS ENERGY FLORIDA, INC
LEVY NUCLEAR PLANT
UNITS 1 & 2

TITLE

STORM WATER & EROSION CONTROL DETAILS

Shaw Nuclear

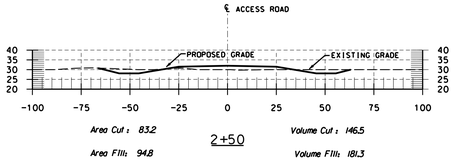
DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: NTS
DATE: 05/13/08

SIZE: E
DRAWING NUMBER: LNG-G1-XS-049
REV NO: A

REVISION | REVISION DESCRIPTION | TITLE | APPR | DATE
PE
DV
LE
NE

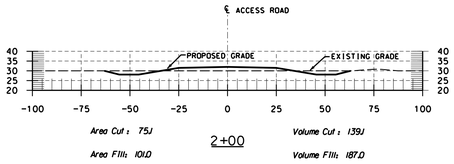
REVIEW | CSA: ARCH, CIVIL/STRUC | MECHANICAL: PIPE, PIPE SUP, SA, ENG, HVAC, PIPE PROC'S | ELECT/INSTR: LTG, I&C

THIS DRAWING CREATED ELECTRONICALLY



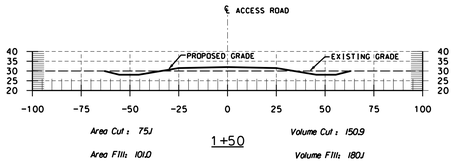
Area Cut : 83.2 Volume Cut : 146.5
Area Fill: 94.8 Volume Fill: 181.3

2+50



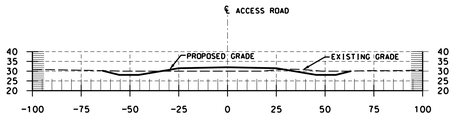
Area Cut : 75.1 Volume Cut : 139.1
Area Fill: 101.0 Volume Fill: 187.0

2+00



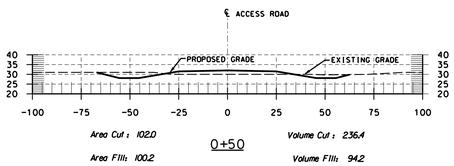
Area Cut : 75.1 Volume Cut : 150.9
Area Fill: 101.0 Volume Fill: 180.1

1+50



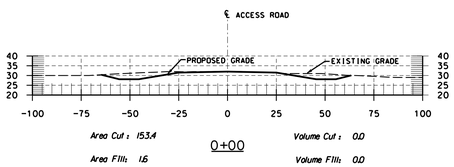
Area Cut : 87.9 Volume Cut : 175.8
Area Fill: 93.5 Volume Fill: 179.4

1+00



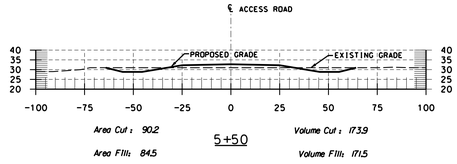
Area Cut : 102.0 Volume Cut : 236.4
Area Fill: 100.2 Volume Fill: 94.2

0+50



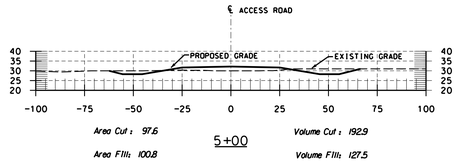
Area Cut : 153.4 Volume Cut : 0.0
Area Fill: 1.6 Volume Fill: 0.0

0+00



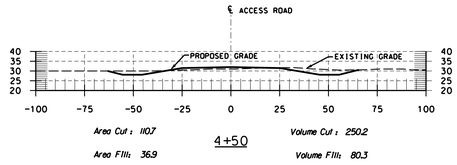
Area Cut : 90.2 Volume Cut : 173.9
Area Fill: 84.5 Volume Fill: 171.5

5+50



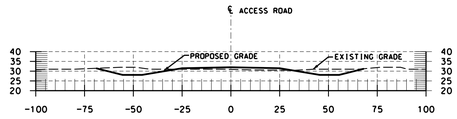
Area Cut : 97.6 Volume Cut : 192.9
Area Fill: 100.8 Volume Fill: 127.5

5+00



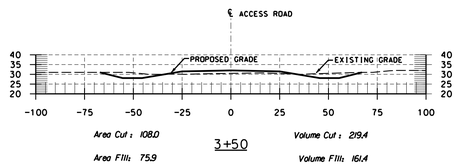
Area Cut : 110.7 Volume Cut : 250.2
Area Fill: 36.9 Volume Fill: 80.3

4+50



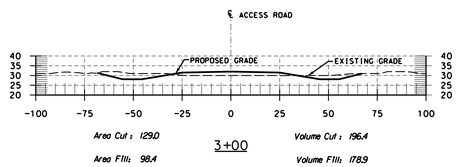
Area Cut : 159.6 Volume Cut : 247.8
Area Fill: 49.9 Volume Fill: 116.5

4+00



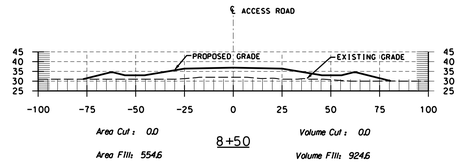
Area Cut : 108.0 Volume Cut : 219.4
Area Fill: 75.9 Volume Fill: 161.4

3+50



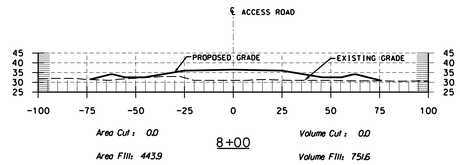
Area Cut : 129.0 Volume Cut : 196.4
Area Fill: 98.4 Volume Fill: 178.9

3+00



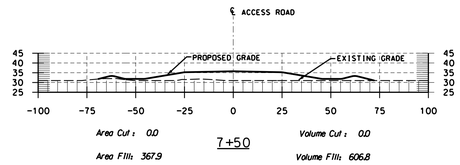
Area Cut : 0.0 Volume Cut : 0.0
Area Fill: 554.6 Volume Fill: 924.6

8+50



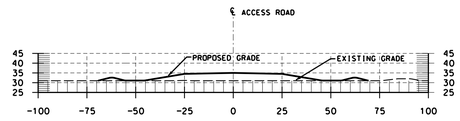
Area Cut : 0.0 Volume Cut : 0.0
Area Fill: 443.9 Volume Fill: 751.6

8+00



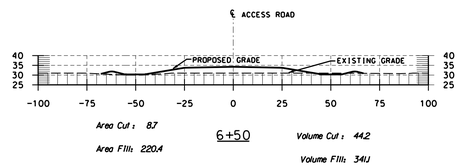
Area Cut : 0.0 Volume Cut : 0.0
Area Fill: 367.9 Volume Fill: 606.8

7+50



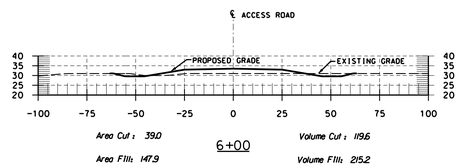
Area Cut : 0.0 Volume Cut : 8.1
Area Fill: 287.4 Volume Fill: 470.2

7+00



Area Cut : 8.7 Volume Cut : 44.2
Area Fill: 220.4 Volume Fill: 341.1

6+50



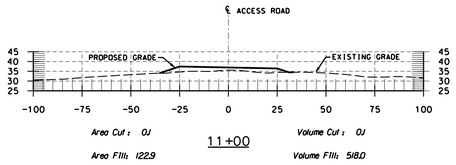
Area Cut : 39.0 Volume Cut : 119.6
Area Fill: 147.9 Volume Fill: 215.2

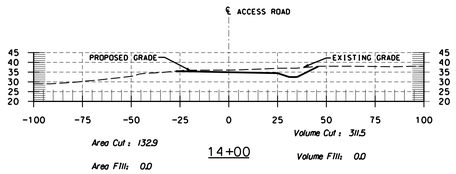
6+00

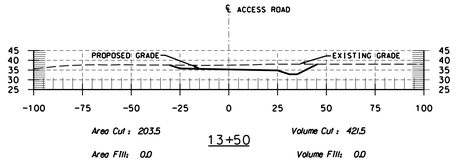
FOR PERMITTING

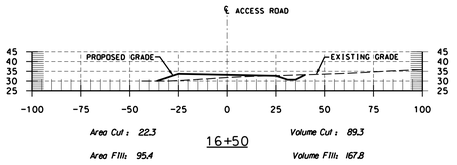
SCALE: HORZ. - 1"=30'
VERT. - 1"=3'

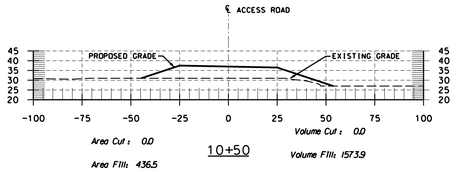
| REVISION | | |

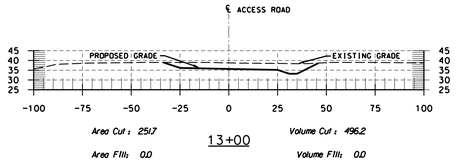


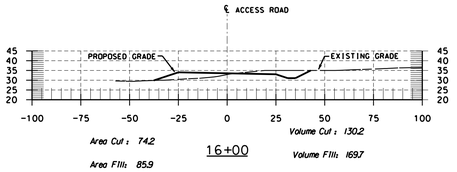


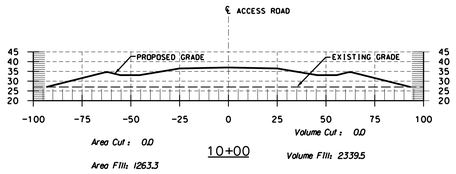


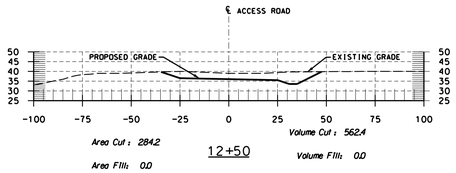


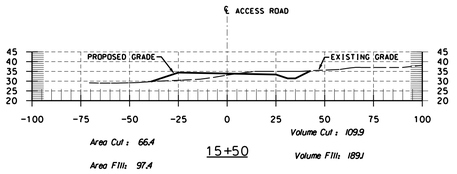


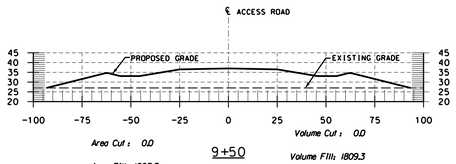


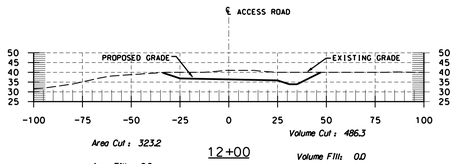


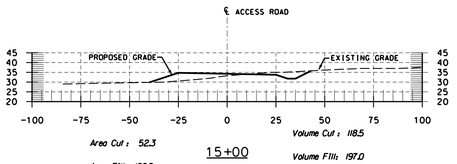


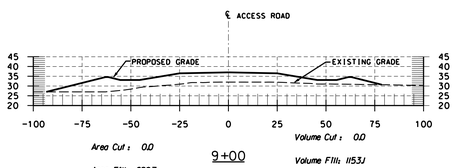


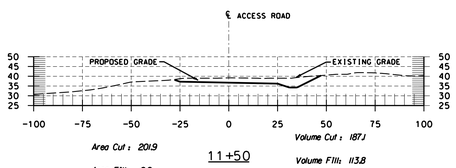


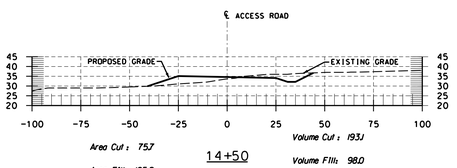












FOR PERMITTING

SCALE: HORZ. - 1"=30'
VERT. - 1"=3'

REVISION			TITLE	APPR	DATE
A	REVISION DESCRIPTION		PE		
			QV		
			LE		
			RE		

REVIEW	CSA		MECHANICAL					ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

PE STAMP

WEC SAFETY CLASSIFICATION:

CONFIDENTIAL

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

PROPOSED ACCESS ROAD CROSS SECTIONS STA. 9+00 - 16+50

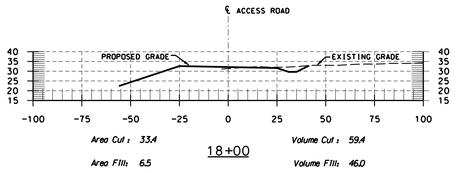
Shaw® Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: AS SHOWN
DATE: 4/20/08

SIZE	DRAWING NUMBER	REV NO
E	LNG-G1-XS-051	A

THIS DRAWING CREATED ELECTRONICALLY

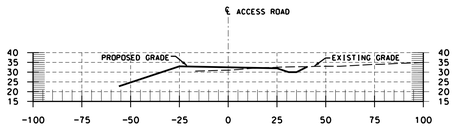
WILES
MUSSELMAN
WILES
KITNER



Area Cut : 33.4
Area Fill: 6.5

18+00

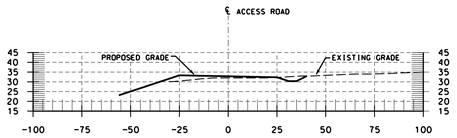
Volume Cut : 59.4
Volume Fill: 46.0



Area Cut : 30.7
Area Fill: 43.1

17+50

Volume Cut : 49.4
Volume Fill: 100.7



Area Cut : 22.7
Area Fill: 65.7

17+00

Volume Cut : 41.6
Volume Fill: 149.1

FOR PERMITTING

PE STAMP

WEC SAFETY CLASSIFICATION:

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PROGRESS ENERGY FLORIDA, INC

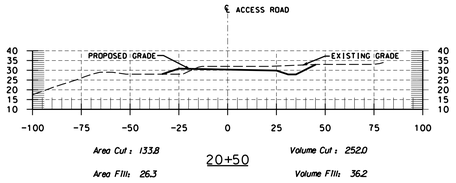
CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

PROPOSED ACCESS ROAD CROSS SECTIONS STA. 17+00 - 18+00

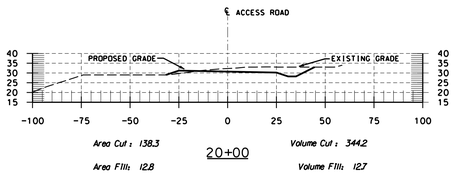
SCALE: HORZ. - 1"=30'
VERT. - 1"=3'

| REVISION | | |



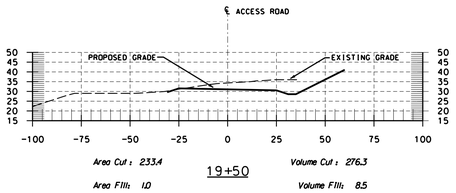
Area Cut : 133.8 Volume Cut : 252.0
Area Fill: 26.3 Volume Fill: 36.2

20+50



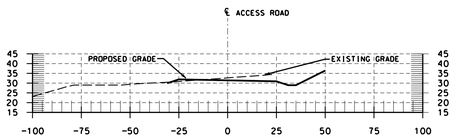
Area Cut : 138.3 Volume Cut : 344.2
Area Fill: 12.8 Volume Fill: 12.7

20+00



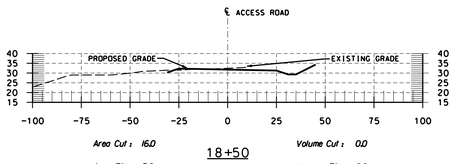
Area Cut : 233.4 Volume Cut : 276.3
Area Fill: 1.0 Volume Fill: 8.5

19+50



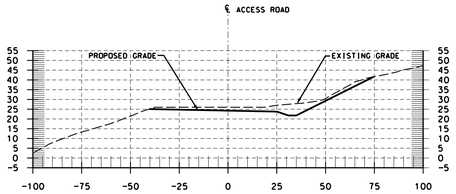
Area Cut : 65.0 Volume Cut : 75.0
Area Fill: 8.2 Volume Fill: 12.2

19+00



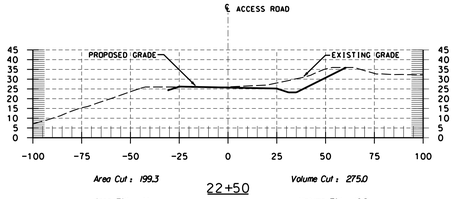
Area Cut : 16.0 Volume Cut : 0.0
Area Fill: 5.0 Volume Fill: 0.0

18+50



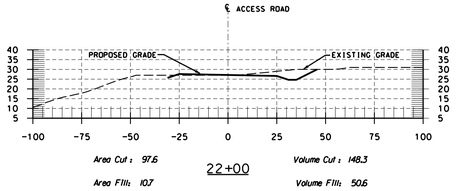
Area Cut : 240.9 Volume Cut : 407.6
Area Fill: 0.0 Volume Fill: 1.0

23+00



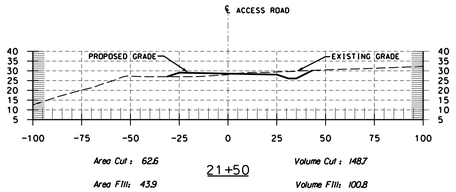
Area Cut : 199.3 Volume Cut : 275.0
Area Fill: 1.1 Volume Fill: 10.9

22+50



Area Cut : 97.6 Volume Cut : 148.3
Area Fill: 10.7 Volume Fill: 50.6

22+00



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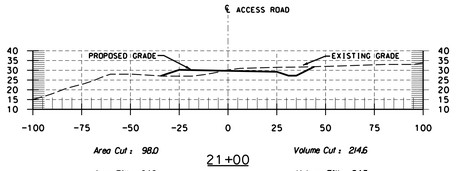
21+50



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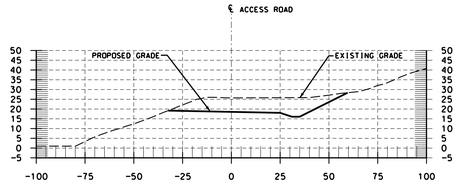
21+00



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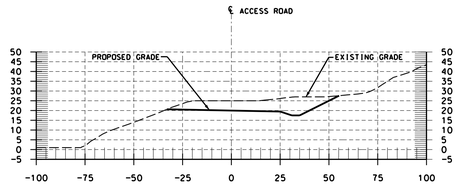
25+00



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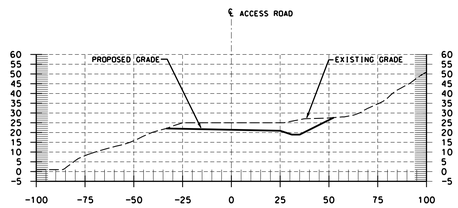
24+50



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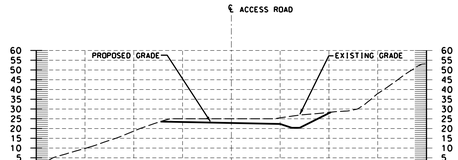
24+00



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23+50

FOR PERMITTING

SCALE: HORZ. - 1"=30'
VERT. - 1"=3'

	REVISION DESCRIPTION	TITLE	APPR	DATE
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REVISION		DV		
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REVIEW	CSA		MECHANICAL					ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

PROPOSED ACCESS ROAD CROSS SECTIONS STA. 18+50 - 25+00

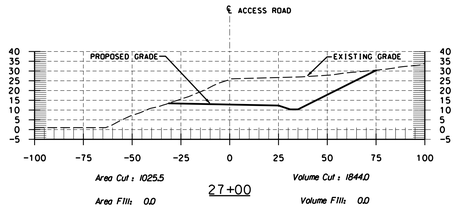
Shaw® Nuclear

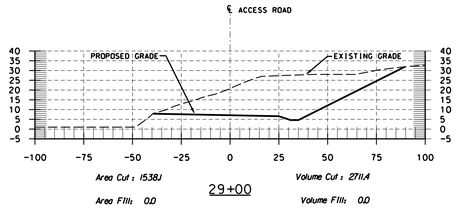
DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: AS SHOWN
DATE: 4/20/08

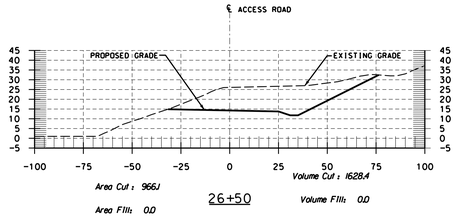
SIZE	DRAWING NUMBER	REV NO
E	LNG-G1-XS-053	A

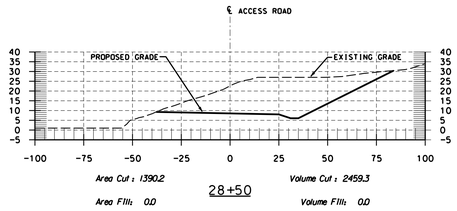
THIS DRAWING CREATED ELECTRONICALLY

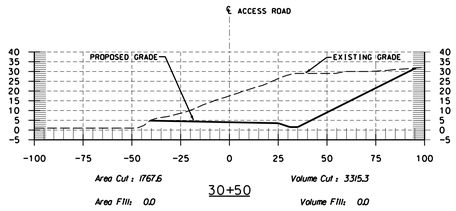
BRUNS. BUCKSHAWKS & RUSSELL STOKES

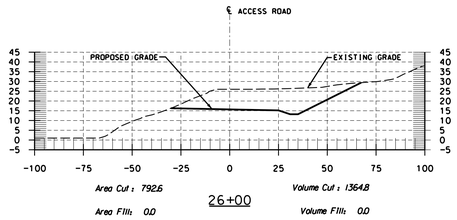


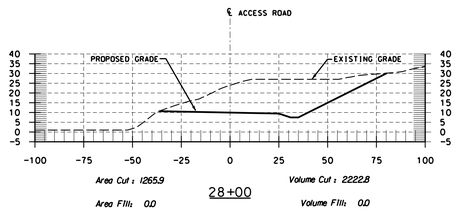


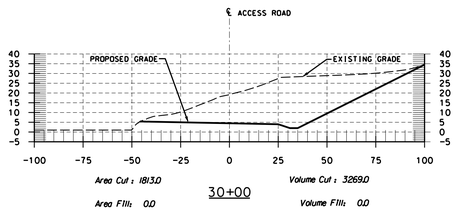


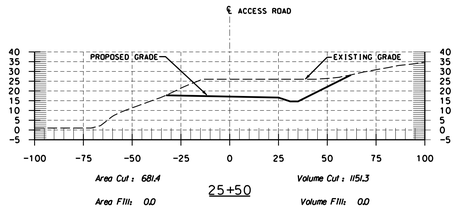


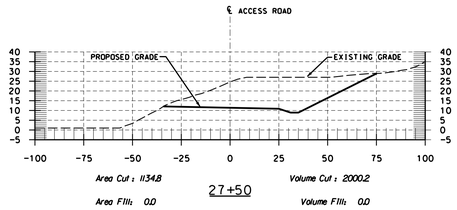


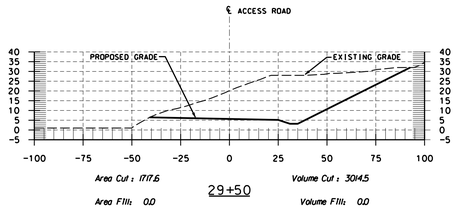












FOR PERMITTING

SCALE: HORZ. - 1"=30'
VERT. - 1"=3'

REVISION	REVISION DESCRIPTION	TITLE	APPR	DATE
A		PE		
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REVIEW	CSA		MECHANICAL					ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

PROPOSED ACCESS ROAD CROSS SECTIONS STA. 25+50 - 30+50

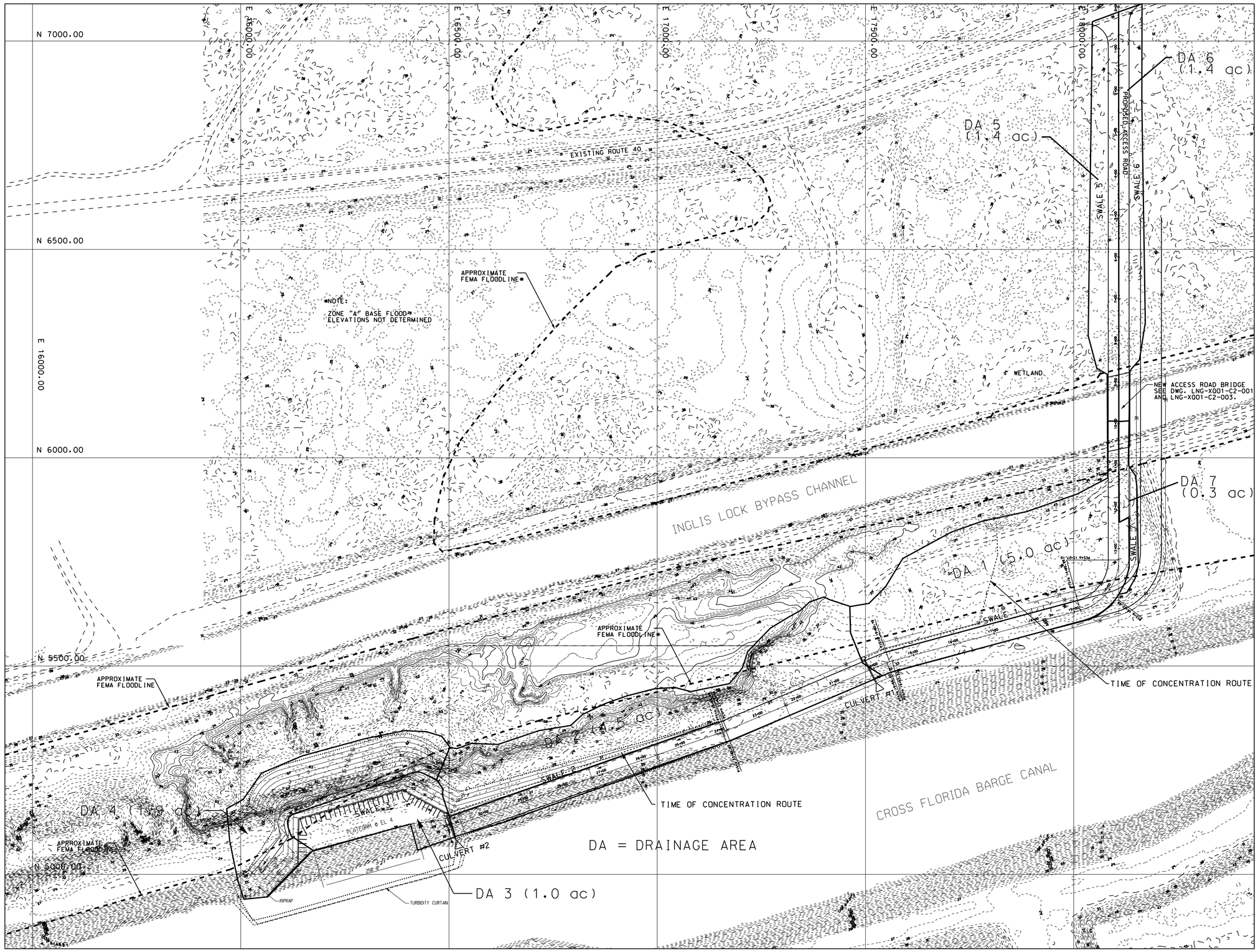
Shaw® Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: AS SHOWN
DATE: 4/20/08

SIZE	DRAWING NUMBER	REV NO
E	LNG-G1-XS-054	A

THIS DRAWING CREATED ELECTRONICALLY

WILLIS MUSSELWHITE BOYNTON & KITNER



NOTE: FOR GENERAL NOTES REFER TO DRAWING LNG-G1-XS-056.

GRAPHIC SCALE

100 50 0 100 200FT

SCALE: 1"= 100'

FOR PERMITTING

PE STAMP

SHAW NUCLEAR
STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

WEC SAFETY CLASSIFICATION: E

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE
PROPOSED ACCESS ROAD
STORM DRAINAGE AREA MAP

REVISION	REVISION DESCRIPTION	TITLE	APPR	DATE
2	REVISED BYPASS BARGE CANAL TO INGLIS LOCK BYPASS CHANNEL AND REVISED CONTOURS AT BOAT SLIP AREA. REMOVED INTAKE STRUCTURE AND RIP RAP AT BOAT SLIP.	PE		
		DV		
		LE		
		RE		

REVIEW	CSA		MECHANICAL						ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

DESIGNED BY:
CHECKED BY:
SCALE: AS SHOWN
DATE: 5/28/08

Shaw Nuclear

SIZE	DRAWING NUMBER	REV NO
E	LNG-G1-XS-055	2

LNG-G1-XS-055.DGN 5/22/08

THIS DRAWING CREATED ELECTRONICALLY

BFLEX
SUBSTRUCTURE
SURFACE
ETCHED

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL.

2. THE INSTALLATION OF EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

3. SILT BARRIERS SHALL BE PLACED AT DOWNSTREAM TOE OF ALL FILL SLOPES UNLESS OTHERWISE PROTECTED.

4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL DEVICES TO BE USED MAY BE REQUIRED.

5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.

6. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANING OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR FROM THE SITE ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED.

7. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED. CLEARING, GRUBBING, OR OTHER LAND DISTURBANCE SHALL NOT COMMENCE UNTIL PERIMETER CONTROLS ARE COMPLETE.

8. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

9. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED TO LOCAL JURISDICTIONAL STANDARDS.

10. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

11. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.

12. DISTURBED AREAS LEFT IDLE FOR 14 DAYS, AND ARE NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. DISTURBED AREAS LEFT IDLE FOR 30 DAYS OR MORE WILL BE ESTABLISHED TO PERMANENT VEGETATION. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION IMMEDIATELY UPON COMPLETION.

13. OTHER EROSION CONTROL NOTES:
    a) ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN 14 DAYS OF THEIR CONSTRUCTION.
    b) ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
    c) A 25 TO 35 FOOT UNDISTURBED BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.

14. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.

15. MULCH WILL BE USED AS A TEMPORARY COVER ON SLOPES THAT ARE GREATER THAN 2-1/2 HORIZ TO 1 VERT. MULCH, IF USED, WILL BE ANCHORED.

16. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION OF THE ISSUING AUTHORITY, THE ENGINEER, OR PROGRESS ENERGY, INC.

17. CONSTRUCTION WASTE DISPOSAL

    NOTE: CONSTRUCTION WASTE MAY NOT BE BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.

    CRITICAL AREAS

    FILL SLOPES
    SURFACE ROUGHENING OF THE FILL SLOPES ALONG WITH TEMPORARY AND PERMANENT GRASSING WILL BE UTILIZED TO CONTROL EROSION OF THE SLOPE FACE. SILT FENCE WILL BE PLACED AT THE TOE OF THE SLOPES.

    CUT SLOPE
    SURFACE ROUGHENING OF THE CUT SLOPES ALONG WITH TEMPORARY AND PERMANENT GRASSING WILL BE UTILIZED TO CONTROL EROSION OF THE SLOPE FACE.

SEEDING NOTES

1. TOPSOIL:
   a. TOPSOIL SHALL BE WORKABLE, LOAMY SOIL, FREE OF DEBRIS, REFUSE AND SIMILAR FOREIGN MATTER, AND REASONABLY FREE OF SUBSOIL, HARD LUMPS, GRAVEL AND OTHER SUCH MATERIALS. TOPSOIL SHALL HAVE A MINIMUM PLACTICITY (PI) OF 4, A MAXIMUM PIOF 12, A PH OF 5.5 TO 8.0, A MINIMUM ORGANIC CONTENT OF 3 PERCENT, AND SHALL BE CAPABLE OF SUPPORTING ADEQUATE VEGETATION.
   b. AREAS TO RECEIVE TOPSOIL SHALL BE SCARIFIED. AGRICULTURAL LIME, IF REQUIRED, SHALL BE SPREAD PRIOR TO SCARIFYING AREAS.
   c. TOPSOIL SHALL BE UNIFORMLY SPREAD OVER THE AREAS TO A MINIMUM DEPTH OF 4 INCHES AND ROLLED TO A UNIFORM SURFACE WITH A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

2. FERTILIZER:
   a. FERTILIZER SHALL BE A COMMERCIAL TYPE COMPLYING WITH THE COMMERCIAL FERTILIZER LAWS IN EFFECT AS REGULATED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND FORESTRY. FERTILIZER SUPPLIED IN GRANULAR, PELLET OR TABLET FORM SHALL BE PACKAGED IN MOIST ROOF CONTAINERS.
   b. FERTILIZER SHALL BE EITHER 8-8-8, 12-12-12, 13-13-13, OR 16-16-16. THE 3 NUMBERING SEQUENCE REPRESENTS THE MINIMUM PERCENTAGES BY WEIGHT, RESPECTIVELY, OF NITROGEN, AVAILABLE PHOSPHORIC ACID AND SOLUBLE POTASH.
   c. FERTILIZER SHALL BE UNIFORMLY BROADCAST OVER AREAS TO BE FERTILIZED BY EITHER HAND OR MACHINE METHODS. THE RATE OF FERTILIZER APPLICATION SHALL BE IN ACCORDANCE WITH FERTILIZER APPLICATION RATES AS SHOWN IN "TABLE - C" THIS DRAWING.
   d. FERTILIZER SHALL BE APPLIED BEFORE FINAL DISKING, HARROWING, OR ROTOTILLING DURING SURFACE DRESSING. WHEN THE SURFACE IS DRESSED BY HAND, THE FERTILIZER MAY BE APPLIED BEFORE FINAL RAKING AND LEVELING.

3. AGRICULTURAL LIME:
   a. AGRICULTURAL LIME SHALL CONSIST OF GROUND LIMESTONE OR SEASHELLS CONTAINING AT LEAST 90 PERCENT CALCIUM CARBONATE EQUIVALENT WHEN TESTED IN ACCORDANCE WITH ASTM C 602. THE MATERIAL SHALL BE GROUND SO THAT A MINIMUM OF 90 PERCENT PASSES A No. 10 SIEVE AND 25 PERCENT PASSES A No. 100 SIEVE.
   b. AGRICULTURAL LIME SHALL BE SPREAD UNIFORMLY AT A MINIMUM OF 2 TONS PER ACRE WITH A SPREADER. LIME SHALL BE APPLIED PRIOR TO SEEDING AND TOPSOIL PLACEMENT AND MAY BE APPLIED IN CONJUNCTION WITH FERTILIZER.
   c. AFTER APPLICATION, THE AREAS SHALL BE DISKED, HARROWED, OR ROTOTILLED TO INCORPORATE LIME OR LIME-FERTILIZER INTO THE TOP 3 INCHES TO 6 INCHES OF SOIL.

4. SEED BED PREPARATION:
   a. SEED BEDS SHALL BE PREPARED BY DISKING, HARROWING OR OTHER APPROVED METHODS. SOIL SHALL BE THOROUGHLY PULVERIZED TO A MINIMUM DEPTH OF 3 INCHES. SLOPES SHALL BE SMOOTHED TO GRADE AND ROLLED PRIOR TO SEEDING.

5. SEED:
   a. PERMANENT SEED MIXTURES AND PLANTING DATES SHALL BE IN ACCORDANCE WITH THE PERMANENT SEEDING SCHEDULE PROVIDED IN "TABLE - A" THIS DRAWING.
   b. TEMPORARY SEED MIXTURES AND PLANTING DATES SHALL BE IN ACCORDANCE WITH THE TEMPORARY SEEDING SCHEDULE PROVIDED IN "TABLE - B" THIS DRAWING.
   c. SEED SHALL COMPLY WITH REQUIREMENTS OF FLORIDA LAW. THE MINIMUM PERCENTAGE OF PURE LIVE SEED AND THE MAXIMUM PERCENTAGE OF WEED SEED PERMITTED SHALL BE IN ACCORDANCE WITH SEED REQUIREMENTS PROVIDED IN "TABLE - D" THIS DRAWING.
   d. EACH VARIETY OF SEED SHALL BE FURNISHED AND DELIVERED IN SEPARATE BAGS OR OTHER CONTAINERS. EACH BAG OR CONTAINER SHALL BEAR AN ANALYSIS TAG WHICH IS A MINIMUM NO. 6 STANDARD SHIPPING TAG HAVING ALL INFORMATION REQUIRED BY THE FLORIDA SEED LAW, ARRANGED AS SHOWN IN "TABLE - E" THIS DRAWING.
   e. SEED FURNISHED SHALL BE THE PREVIOUS SEASON'S CROP (THE LAST CROP YEAR FOR THE CROP KIND IN QUESTION) AND THE DATE OF ANALYSIS SHOWN ON EACH TAG SHALL BE WITHIN 5 MONTHS (EXCLUDING THE MONTH IN WHICH THE TEST IS COMPLETED) OF THE TIME OF DELIVERY TO THE PROJECT.

6. NOXIOUS WEEDS:
   a. NOXIOUS WEEDS SHALL BE INTERPRETED TO MEAN THAT LIST OF WEEDS, EXCEPT BERMUDA, WHICH HAS BEEN ADOPTED BY THE FLORIDA SEED COMMISSION AS BEING NOXIOUS IN FLORIDA. NOXIOUS WEED SEEDS SHALL NOT EXCEED THE LIMITATIONS PRESCRIBED IN THE REGULATIONS AND IN NO CASE SHALL THEY EXCEED 500 PER POUND.
   b. ANALYSIS TAGS SHALL BE REMOVED FROM EACH BAG OR CONTAINER ONLY BY THE ENGINEER OR AN AUTHORIZED REPRESENTATIVE.

7. TEST REPORT:
   a. A COPY OF THE LABORATORY TEST REPORT OF AN "OFFICIAL" SAMPLE TAKEN AND TESTED FOR EACH LOT OF SEED FURNISHED AS PREPARED BY THE STATE SEED ANALYST OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND FORESTRY SHALL BE SUBMITTED TO THE ENGINEER BY THE CONTRACTOR. TEST REPORTS WILL BE ACCEPTED FROM THE AGRICULTURAL DEPARTMENTS OF OTHER STATES PROVIDED THE REQUIREMENTS OF THESE SPECIFICATIONS ARE MET.
   b. THE LOT NUMBER ON THE ANALYSIS TAG SHALL MATCH THE LABORATORY TEST REPORT LOT NUMBER.

8. WATERING:
   a. SEEDED AREAS SHALL BE PERIODICALLY WATERED UNTIL FINAL ACCEPTANCE. WATER MAY BE OBTAINED FROM ANY SOURCE, EXCEPT BRACKISH, CHEMICALLY CONTAMINATED, OR OILY WATER SHALL NOT BE USED.

MULCHING NOTES

1. GENERAL:
   a. MULCHING SHALL FOLLOW SEEDING OPERATIONS WITHIN 48 HOURS TO PROMOTE SEED GERMINATION AND GROWTH.
   b. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 7 CALENDAR DAYS IN ADVANCE OF COMMENCING OPERATIONS SO THAT THE MULCH CAN BE INSPECTED AND APPROVED PRIOR TO USE.
   c. MULCH SHALL CONSIST OF EITHER TACKED VEGETATIVE MULCH OR AN APPROVED FIBER MULCH PRODUCT.
   d. VEGETATIVE MULCH OR FIBER MULCH SHALL BE DELIVERED IN BALES OR BAGS OF UNIFORM SIZE. MULCH STORAGE STOCKPILES SHALL BE PROTECTED FROM WEATHER.

2. TACKED VEGETATIVE MULCH:
   a. VEGETATIVE MULCH SHALL CONSIST OF PINE STRAW, STEMS OR STALKS OF OATS, RYE, RICE, OR OTHER APPROVED STRAWS.
   b. THE CONTRACTOR MAY ALSO USE HAY OBTAINED FROM VARIOUS LEGUMES AND GRASSES SUCH AS LESPEDEZAS, CLOVER, VETCHES, SOYBEANS, BERMUDA, DALLIES, CARPET SEDGE, FESCUE OR OTHER APPROVED LEGUMES OR GRASSES OF ANY COMBINATION THEREOF.
   c. STRAW OR HAY SHALL BE REASONABLY DRY AND FREE FROM MOLD, JOHNSON GRASS OR OTHER NOXIOUS WEEDS.
   d. VEGETATIVE MULCH SHALL BE TACKED WITH AN APPROVED TACKING AGENT FOR VEGETATIVE MULCH LISTED IN THE QUALIFIED PRODUCTS LIST FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST.

   e. VEGETATIVE MULCH SHALL BE APPLIED AT A RATE OF 1 1/2 TO 2 TONS OF MULCH PER ACRE SIMULTANEOUSLY WITH THE TACKING AGENT.

   f. THE MINIMUM ALLOWABLE VEGETATIVE DENSITY FOR SOURCE APPROVAL OF TACKED VEGETATIVE MULCH SHALL BE 70 PERCENT FOR CLAY SOILS AND 60 PERCENT FOR SANDY SOILS WHEN EVALUATED IN ACCORDANCE WITH THE TEXAS TRANSPORTATION INSTITUTE (TTI) FIELD PERFORMANCE TESTING PROCEDURE OF SELECTED EROSION CONTROL PRODUCTS.

3. FIBER MULCH PRODUCTS:
   a. ACCEPTABLE FIBER MULCH PRODUCTS SHALL BE LISTED IN THE FLORIDA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST.

   b. FIBER MULCH SHALL BE APPLIED AS A SLURRY AT A RATE OF 1 TO 1 1/2 TONS PER ACRE BASED ON DRY WEIGHT (MASS) OF THE FIBERS. THE APPLICATION RATE OF THE TACKING AGENT, IF NOT PRE-BLENDED WITH THE FIBERS BY THE MANUFACTURER, SHALL BE IN ACCORDANCE WITH APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.
   c. THE MINIMUM ALLOWABLE VEGETATIVE DENSITY FOR SOURCE APPROVAL OF FIBER MULCH PRODUCTS SHALL BE 70 PERCENT FOR CLAY SOILS AND 60 PERCENT FOR SANDY SOILS WHEN EVALUATED IN ACCORDANCE WITH THE TEXAS TRANSPORTATION INSTITUTE (TTI) FIELD PERFORMANCE TESTING PROCEDURE OF SELECTED EROSION CONTROL PRODUCTS.

HYDRO-SEEDING NOTES

1. HYDRO-SEEDING SHALL CONSIST OF MIXING AND APPLYING SEED, COMMERCIAL FERTILIZER, WATER MANAGEMENT GEL, POLYACRYLAMIDE TACKIFIER, AND MYCORRHIZAL INOCULUM WITH FIBER AND WATER.

2. POLYACRYLAMIDE TACKIFIER SHALL NOT BE APPLIED DURING ANY RAINY WEATHER OR WHEN SOIL TEMPERATURES ARE BELOW 41 DEG. F.

3. SEED SHALL BE UNIFORMLY SPREAD OVER THE AREA AT RATES SPECIFIED IN TABLE - A AND/OR TABLE - B. FERTILIZER SHALL BE UNIFORMLY SPREAD OVER THE AREA AT RATES SPECIFIED IN TABLE - C.

4. A MINIMUM OF 535 POUNDS OF WOOD FIBER PER ACRE SHALL BE MIXED AND APPLIED WITH THE SEED. THE FIBER SHALL BE IN ADDITION TO STRAW OR MULCH WHEN STRAW OR MULCH IS SPECIFIED.

5. THE APPLICATION RATE FOR PELLET-INOCULATED SEED SHALL BE DETERMINED USING THE SEED MASS EXCLUSIVE OF INOCULANT MATERIALS.

6. MIXING OF MATERIALS FOR APPLICATION WITH HYDRO-SEEDING EQUIPMENT SHALL BE PERFORMED IN A TANK WITH A BUILT-IN CONTINUOUS AGITATION SYSTEM OF SUFFICIENT OPERATING CAPACITY TO PRODUCE A HOMOGENEOUS MIXTURE AND A DISCHARGE SYSTEM WHICH WILL APPLY THE MIXTURE AT A CONTINUOUS AND UNIFORM RATE.

TABLE - A

PERMENANT SEEDING SCHEDULE

SEED MIXTURES	POUNDS/ ACRE	PLANTING DATES
HULLED BERMUDA	30	MARCH-SEPT.
KENTUCKEY FESCUE UNHULLED BERMUDA	25 20	SEPT.-FEB.
UNHULLED BERMUDA CRIMSON CLOVER	20 40	SEPT.-FEB.
BALD CLOVER UNHULLED BERMUDA	25 20	FEB.-MARCH
VETCH (COMMON)	40	SEPT.-OCT.
LESPEDEZA	40	MARCH-MAY

INOCULATE CRIMSON CLOVER PRIOR TO PLANTING WITH PROPER BACTERIAL CULTURE.

TABLE - B

TEMPORARY SEEDING SCHEDULE

SEED MIXTURES	POUNDS/ ACRE	PLANTING DATES
HULLED BERMUDA	30	MARCH-SEPT.
KENTUCKEY FESCUE UNHULLED BERMUDA	25 20	SEPT.-FEB.
UNHULLED BERMUDA CRIMSON CLOVER	20 40	SEPT.-FEB.
BALD CLOVER UNHULLED BERMUDA	25 20	FEB.-MARCH
VETCH (COMMON)	40	SEPT.-OCT.
LESPEDEZA	40	MARCH-MAY
ANNUAL RYE	30	SEPT.-JAN.

ANNUAL RYE GRASS IS THE ONLY ACCCEPTABLE GRASS FOR WINTER COVER. ANNUAL RYE GRASS SHALL NOT BE PLANTED BEFORE SEPTEMBER 20. ANNUAL RYE GRASS MAY BE PLANTED AS LATE AS JANUARY 15 IF CLIMATE CONDITIONS AND SOIL TEMPERATURES WILL ALLOW GERMINATION.

INOCULATE CRIMSON CLOVER PRIOR TO PLANTING WITH PROPER BACTERIAL CULTURE.

TABLE - C

FERTILIZER APPLICATON RATES

TYPE FERTILIZER	POUNDS PER ACRE	KILOGRAM PER HECTARE
8-8-8	1000	1200
12-12-12	667	748
13-13-13	615	689
16-16-16	500	560

TABLE - D

SEED REQUIREMENT

VARITY	MINIMUN PERCENT OF PURE LIVE SEED (PURITY TIMES GERMINATION INCLUDING HARD SEED BY COUNT)	MAXIMUN PERCENT OF WEED SEED, BY COUNT
HULLED BERMUDA	83	1
PENSACOLA BAHIA	81	2
CRIMSON CLOVER	78	1
KENTUCKEY 31 FESCUE	80	1
UNHULLED BERMUDA	80	1
BALLED CLOVER	80	1
VETCH (COMMON)	80	1
LESPEDEZA	80	1
ANNUAL RYE	80	1

TABLE - E

SEED ANALYSIS TAG

KIND & VARITY			
WHERE GROWN		NET WEIGHT	LOT No.
PURE SEED	%	GERMINATION	%
INERT MATTER	%	HARD SEED	%
CROP SEED	%	TOTAL GERM. & HARD SEED	%
WEED SEED	%	DATE OF TEST	
NAME & No. OF NOXIOUS WEED SEED PER LB.			
NAME			
ADDRESS			

FOR PERMITTING

REVISION	REVISION DESCRIPTION	TITLE	APPR	DATE
A		PE		
		DV		
		LE		
		RE		

REVIEW	CSA		MECHANICAL					ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

PE STAMP

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

SEDIMENT & EROSION CONTROL NOTES AND DETAILS

Shaw® Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: NTS
DATE: 4/20/08

SIZE	DRAWING NUMBER	REV NO
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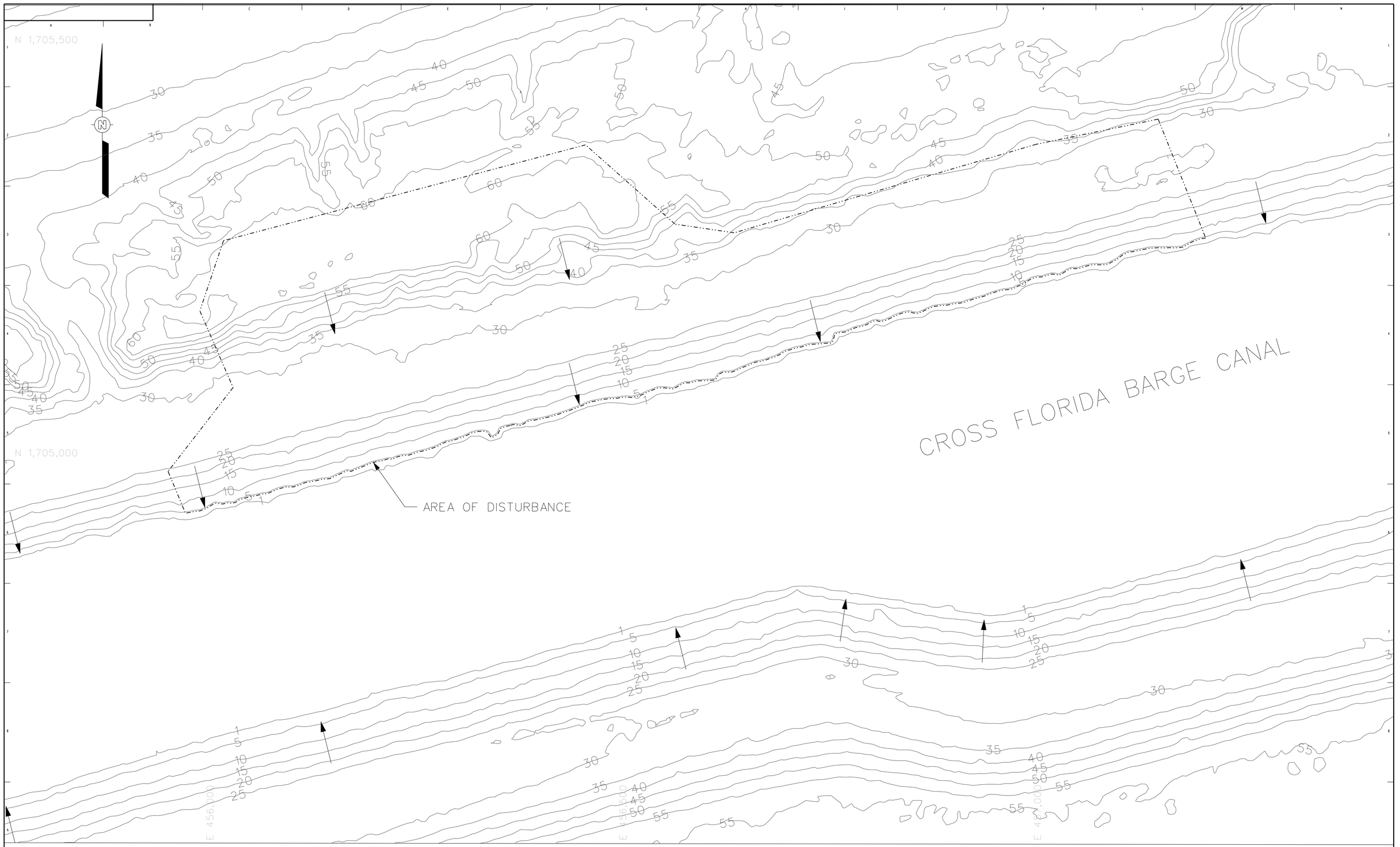
THIS DRAWING CREATED ELECTRONICALLY

MILLER BUCKTHAUSEN & JACOBS, INC. ATLANTA

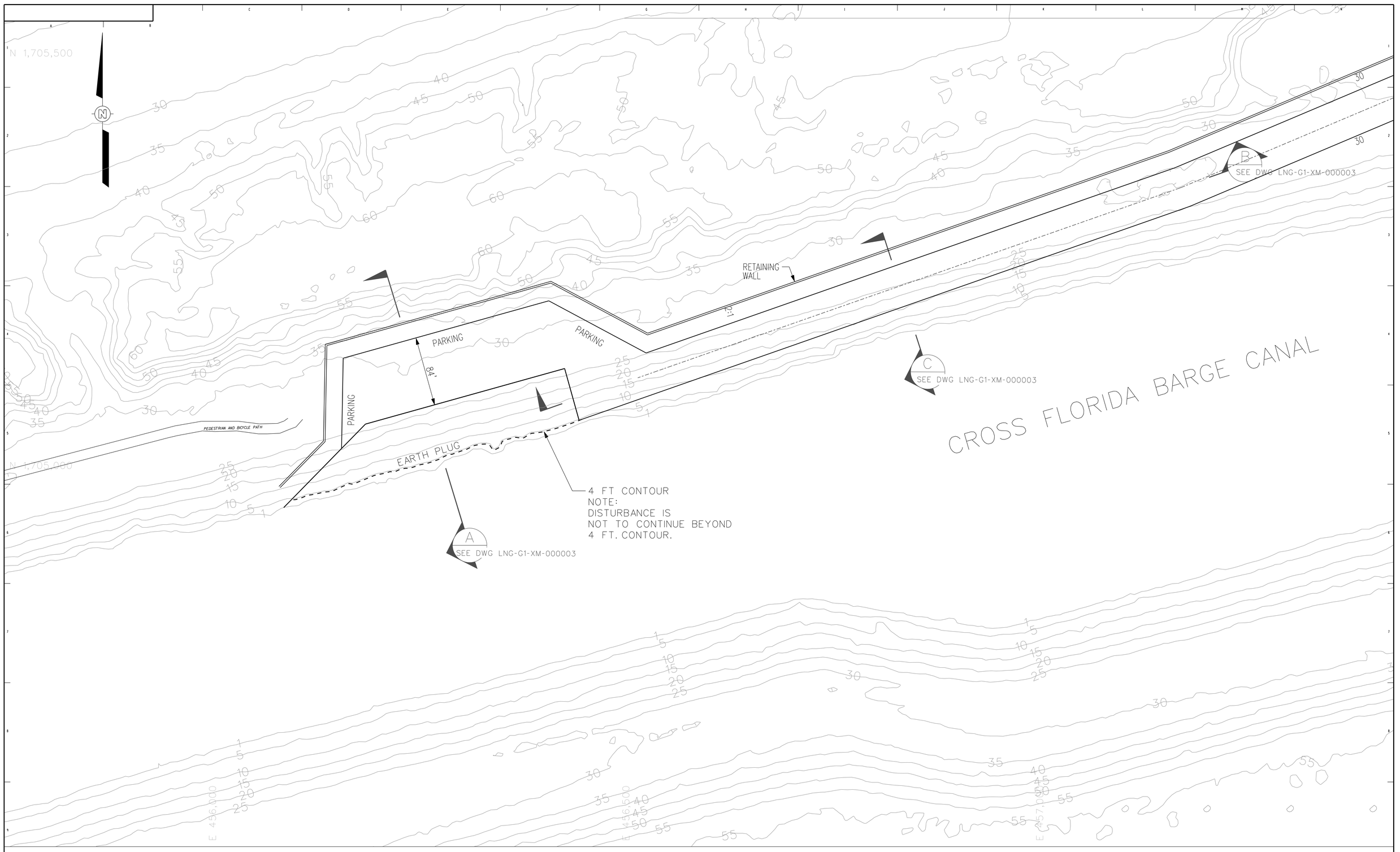


LEGEND:

DIRECTION OF FLOW

FOR PERMITTING

| REVISION | | |



FOR SITE GRADING AND STORM WATER INFRASTRUCTURE
SEE DRAWING LNG-G1-XS-048

NOTE:
*RIP RAP TO BE ADDED AT THE TIME OF TEMPORARY EARTH BERM REMOVAL.
TEMPORARY EARTH BERM WILL BE REMOVED AFTER OBTAINING SCA PERMIT.

FOR PERMITTING

REVIEW	REVISION	REVISION DESCRIPTION	TITLE	APPR	DATE
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			DV		
			LE		
			RE		

CSA		MECHANICAL						ELECT/INSTR	
ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

PE STAMP

SHAW NUCLEAR
STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY
RECREATIONAL IMPROVEMENT AREA

TITLE
BOAT SLIP GENERAL ARRANGEMENT PLAN

Shaw Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: NTS
DATE: 6/17/08

SIZE	DRAWING NUMBER	REV NO
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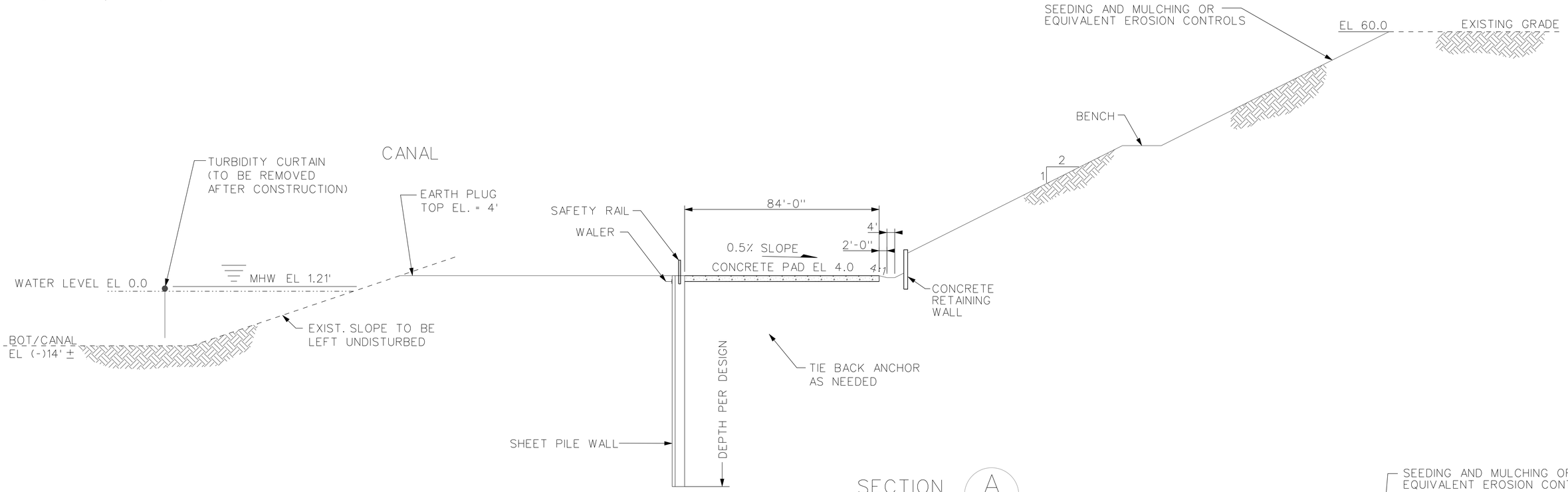

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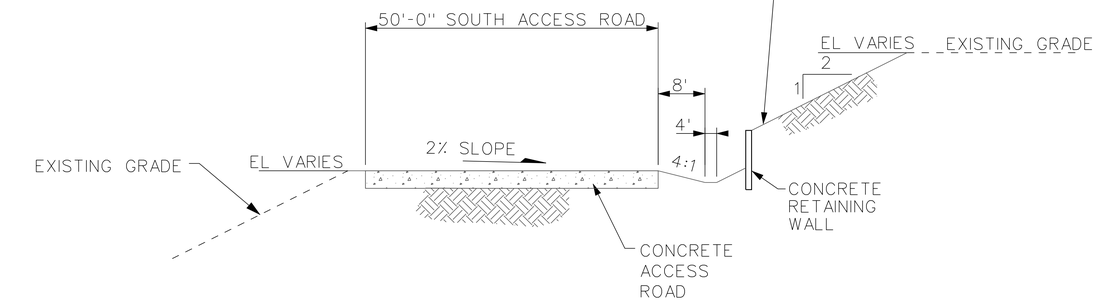
SHT 2



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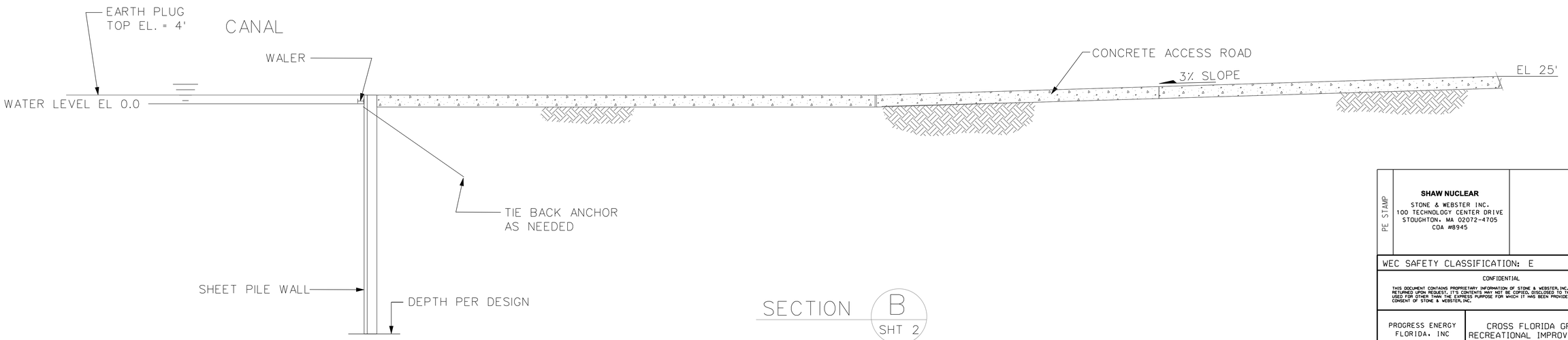

SECTION B
SHT 2

FOR PERMITTING

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			DY		
			LE		
			RE		

REVIEW	CSA		MECHANICAL					ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

PE STAMP

SHAW NUCLEAR
STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE
BOAT SLIP SECTIONS

Shaw® Nuclear

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: NTS
DATE: 6/17/08

SIZE	DRAWING NUMBER	REV NO
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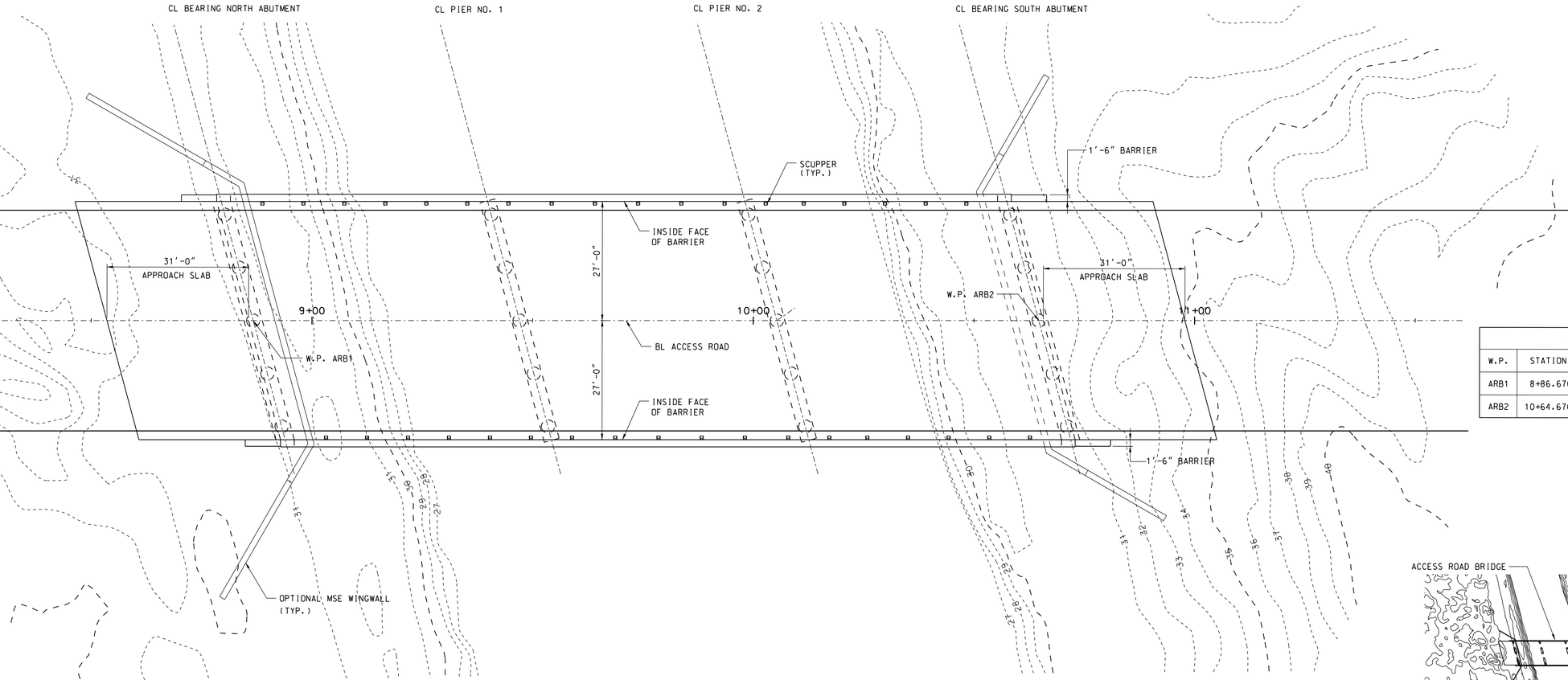
NOTES:

1. REFER TO DRAWING LNG-X001-C9-001 FOR GENERAL NOTES.



BRIDGE PLAN
SCALE: $\frac{3}{32}$" = 1'-0"

WORK POINT COORDINATES			
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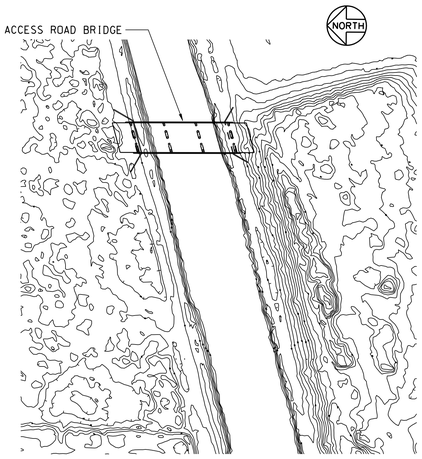
ARB2	10+64.676	6016.89	18108.00



KEY PLAN
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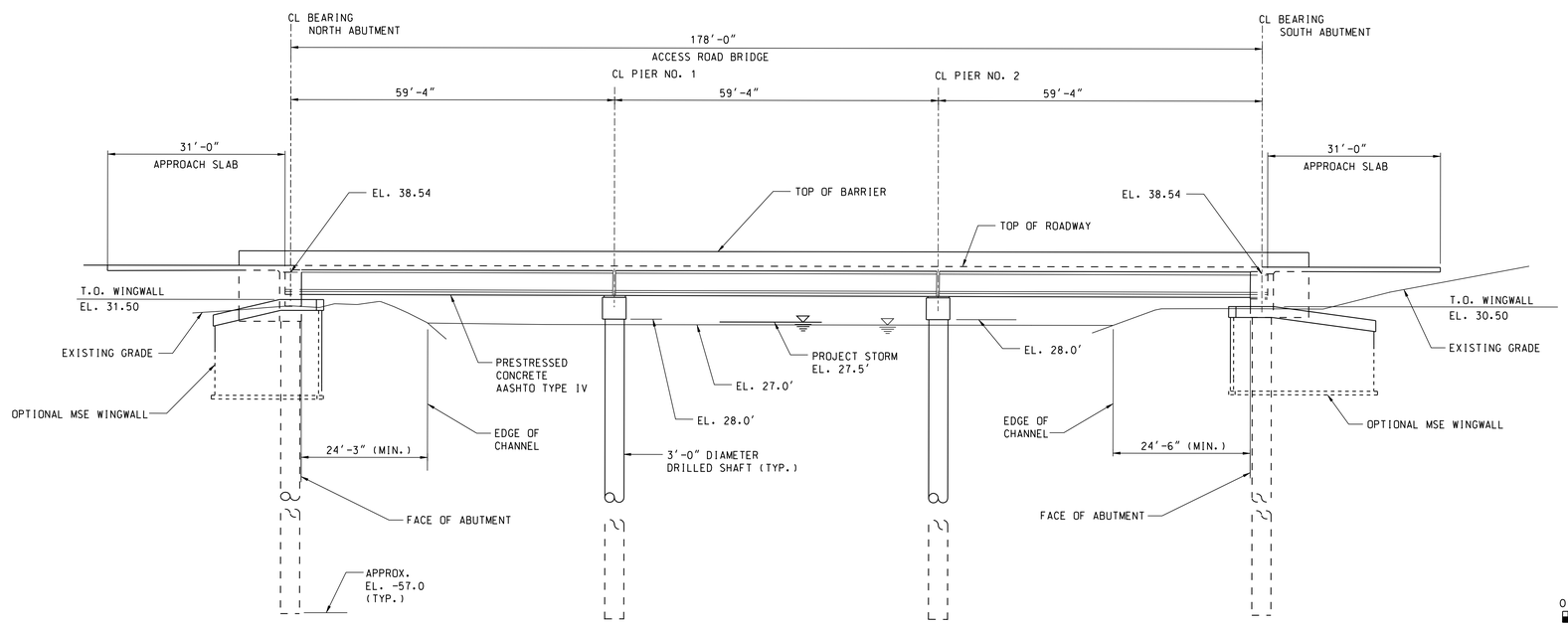

BRIDGE WEST ELEVATION
SCALE: $\frac{3}{32}$" = 1'-0"

0 4' 8' 16' 24' 32'
SCALE: $\frac{3}{32}$"=1'-0"

FOR PERMITTING

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STONE & WEBSTER INC.
100 TECHNOLOGY CENTER DRIVE
STOUGHTON, MA 02072-4705
COA #8945

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE
ACCESS ROAD BYPASS CHANNEL BRIDGE PLAN AND EVEVATION

REVISION													
1	REVISION DESCRIPTION									TITLE	APPR	DATE	
										PE	DS	5/22/08	
										DV	N/A	5/22/08	
										LE	GG	5/22/08	
										RE	DW	5/22/08	
REVIEW	CSA		MECHANICAL							ELECT/INSTR			
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT		LTG	I&C		
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		

DESIGNED BY: DEB
CHECKED BY: JVS
SCALE: AS SHOWN
DATE: 5/19/08

Shaw Nuclear

SIZE	DRAWING NUMBER	REV NO
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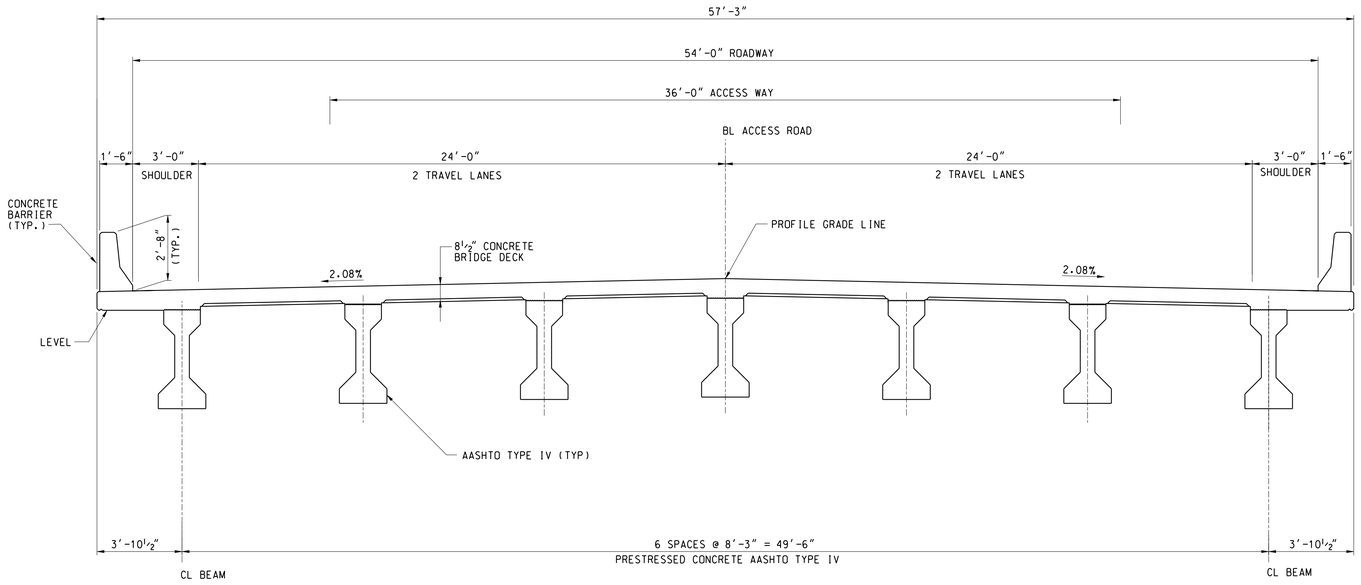

TYPICAL CROSS SECTION

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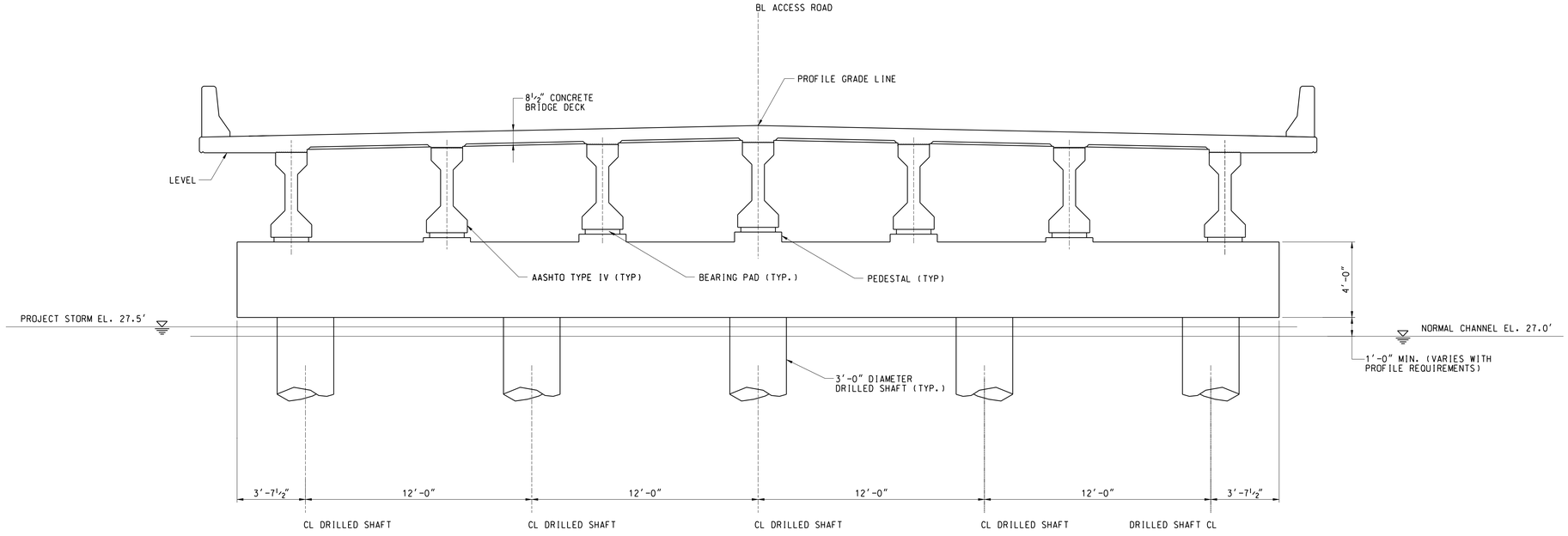

TYPICAL SECTION @ PIER

SCALE: 3/8" = 1'-0"

FOR PERMIT ONLY

0 1' 2' 4' 6' 8'

SCALE: 3/8"=1'-0"

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PROGRESS ENERGY FLORIDA, INC

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

TITLE

ACCESS ROAD BYPASS CHANNEL BRIDGE TYPICAL CROSS SECTION

REVISION	REVISION DESCRIPTION	TITLE	APPR	DATE
	ISSUED FOR PERMIT	PE		
		DV		
		LE		
		RE		

REVIEW	CSA		MECHANICAL						ELECT/INSTR	
	ARCH	CIVIL STRUC	PIPE	PIPE SUP	SA	ENG	HVAC	FIRE PROT	LTG	I&C

Shaw® Nuclear

DESIGNED BY:

CHECKED BY:

SCALE | DATE

SIZE: E

DRAWING NUMBER: LNG-X001-C2-003

REV NO

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ELECTRONIC
FILE
ITEM

FILE: I:*Progress-Levy*Working*ISSUED*2008-04-28_Re-issued for Permit*drawing*BRIDGE-C2-003.dgn

DATE: 30-Apr-08 15:24