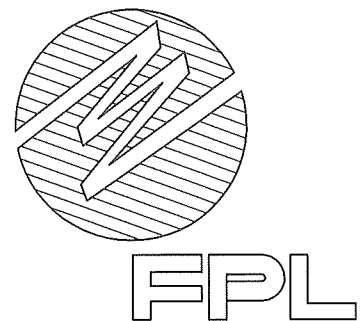


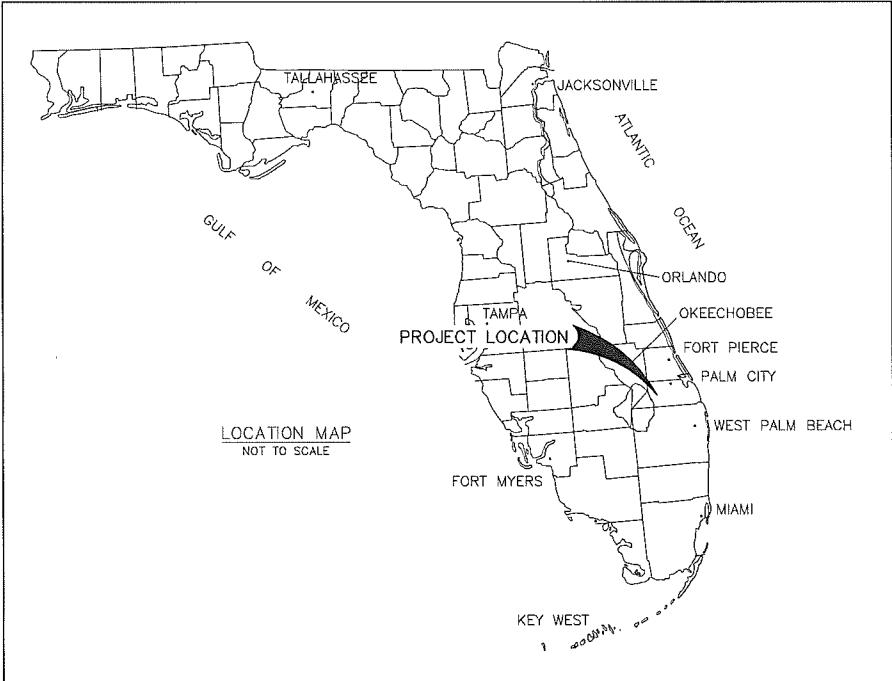
THE MARTIN SOLAR ENERGY CENTER

CONSTRUCTION PLANS & SPECIFICATIONS PREPARED FOR

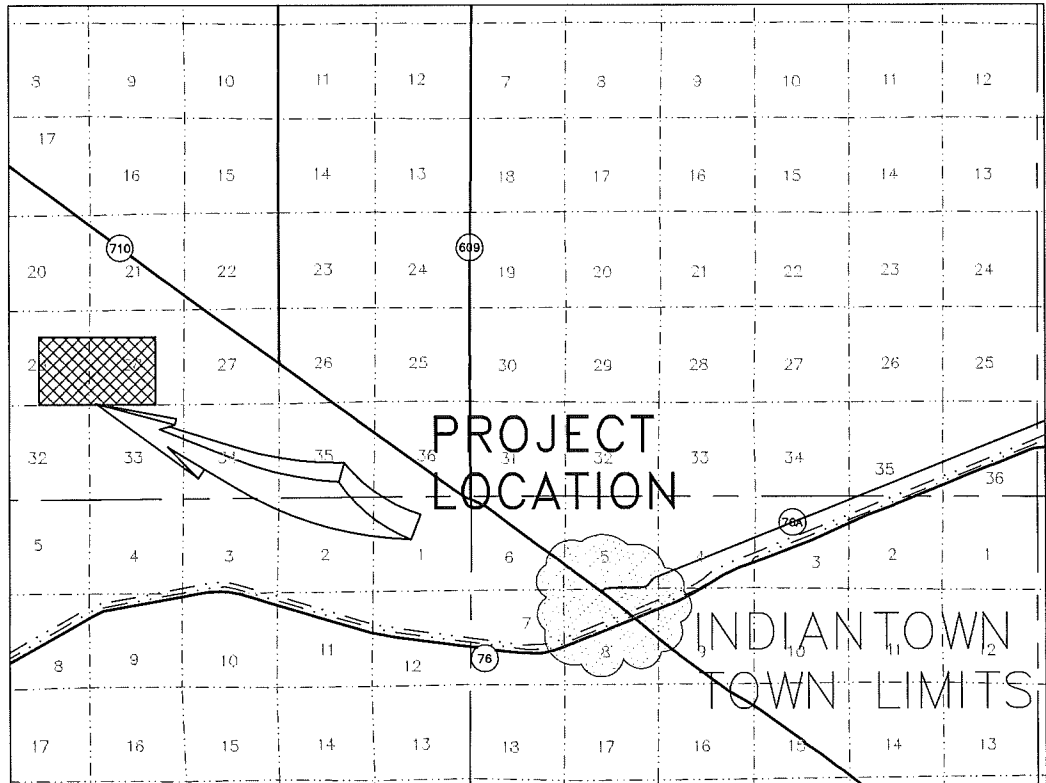


MARTIN COUNTY, FLORIDA

SECTION 28 & 29, TOWNSHIP 39S, RANGE 38E



LOCATION MAP

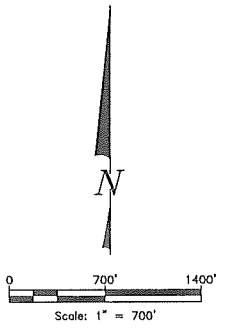
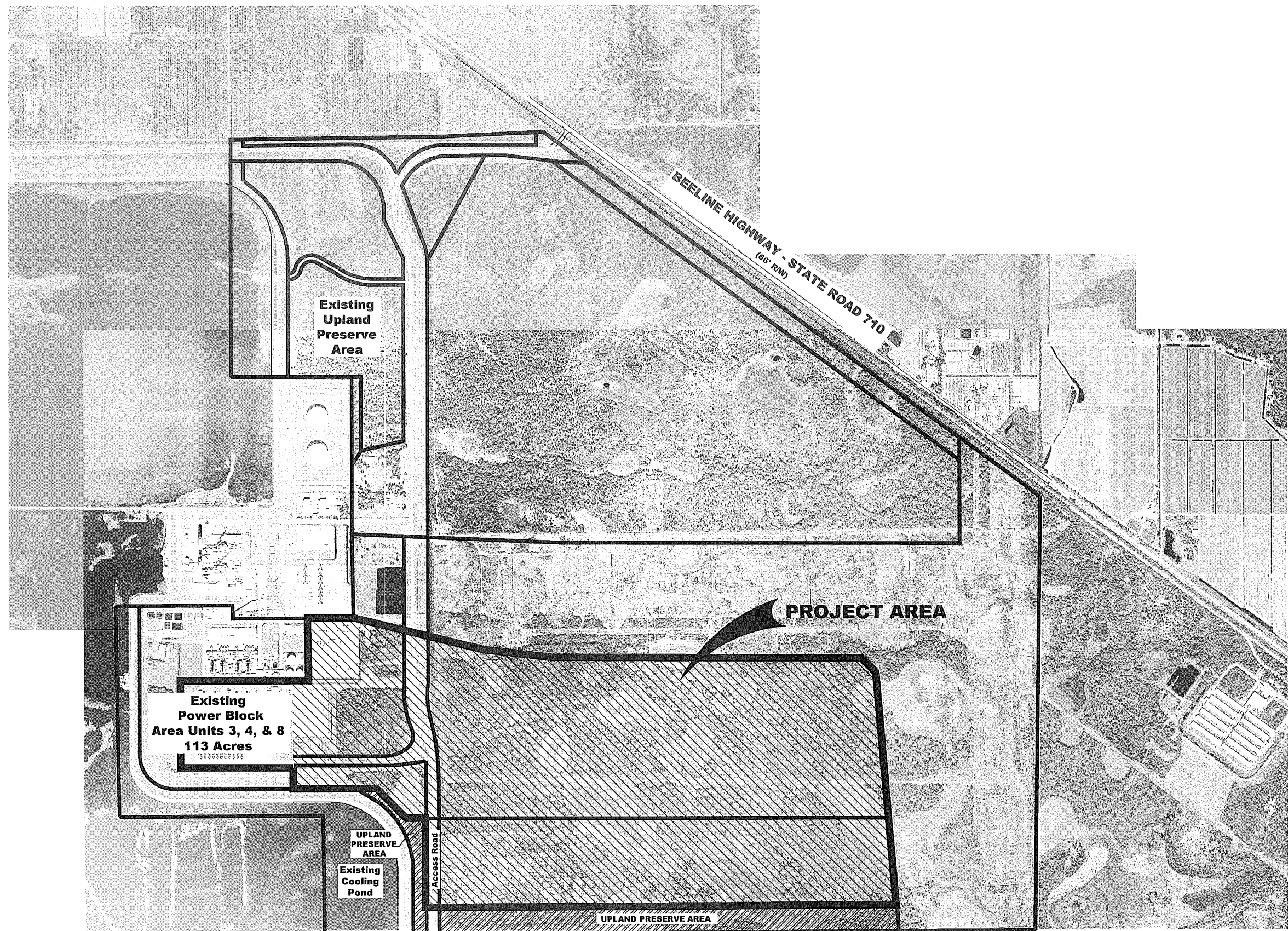


LOCATION SKETCH

SHEET INDEX

SHEET NUMBER	SHEET TITLE/DESCRIPTION
17038-C1	COVER SHEET
17038-C2	OVERALL PROJECT LAYOUT
17038-C3	PROJECT KEY & ROADWAY ALIGNEMENT SHEET
17038-C4	CLEARING AND GRUBBING & EROSION CONTROL SHEET
17038-C5	CONSTRUCTION DRAINAGE PLAN
17038-C6 TO 17038-C12	PAVING, GRADING, & DRAINAGE PLANS
17038-C13 TO 17038-C16	DETAILS
17038-C17	SPECIFICATIONS & SUPPLEMENTARY CONDITIONS





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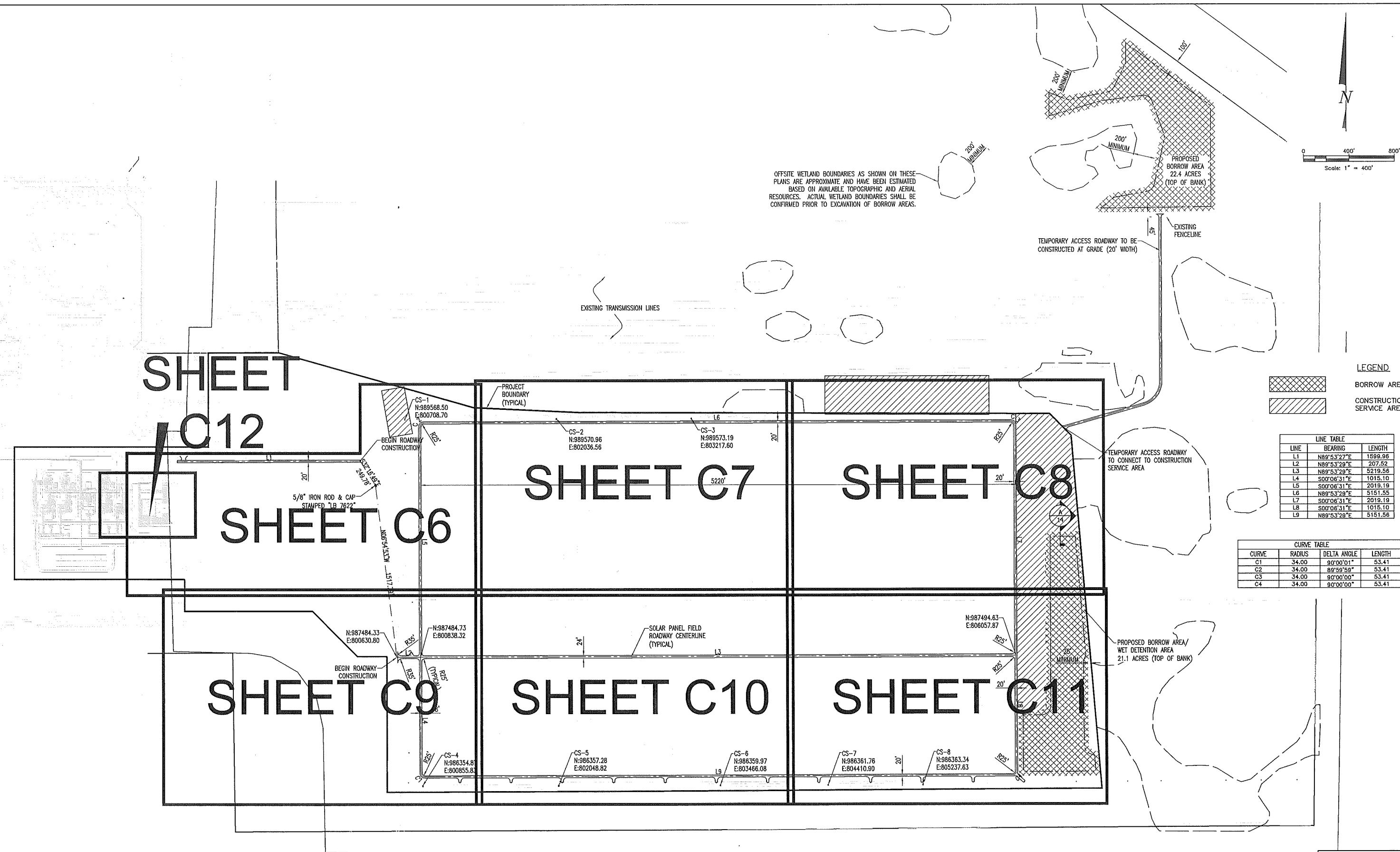
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FLORIDA POWER & LIGHT
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ENERGY CENTER
OVERALL PROJECT LAYOUT

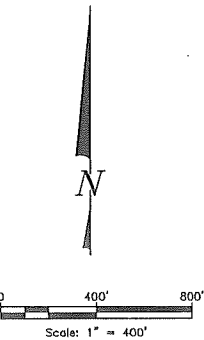
SHEET
17038-C2
OF
17038-C17

REV
NO

MARCOS MONTES DE OCA
No. 63897
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OFFSITE WETLAND BOUNDARIES AS SHOWN ON THESE PLANS ARE APPROXIMATE AND HAVE BEEN ESTIMATED BASED ON AVAILABLE TOPOGRAPHIC AND AERIAL RESOURCES. ACTUAL WETLAND BOUNDARIES SHALL BE CONFIRMED PRIOR TO EXCAVATION OF BORROW AREAS.



LEGEND

- BORROW AREA
- CONSTRUCTION SERVICE AREA

LINE TABLE		
LINE	BEARING	LENGTH
L1	N89°53'27"E	1599.96
L2	N89°53'29"E	207.52
L3	N89°53'29"E	5219.56
L4	S00°06'31"E	1015.10
L5	S00°06'31"E	2019.19
L6	N89°53'29"E	5151.55
L7	S00°06'31"E	2019.19
L8	S00°06'31"E	1015.10
L9	N89°53'29"E	5151.56

CURVE TABLE			
CURVE	RADIUS	DELTA ANGLE	LENGTH
C1	34.00	90°00'01"	53.41
C2	34.00	88°58'58"	53.41
C3	34.00	90°00'00"	53.41
C4	34.00	90°00'00"	53.41

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PROJECT KEY &
ROADWAY ALIGNMENT SHEET

SHEET
17038-C3
OF
17038-C17

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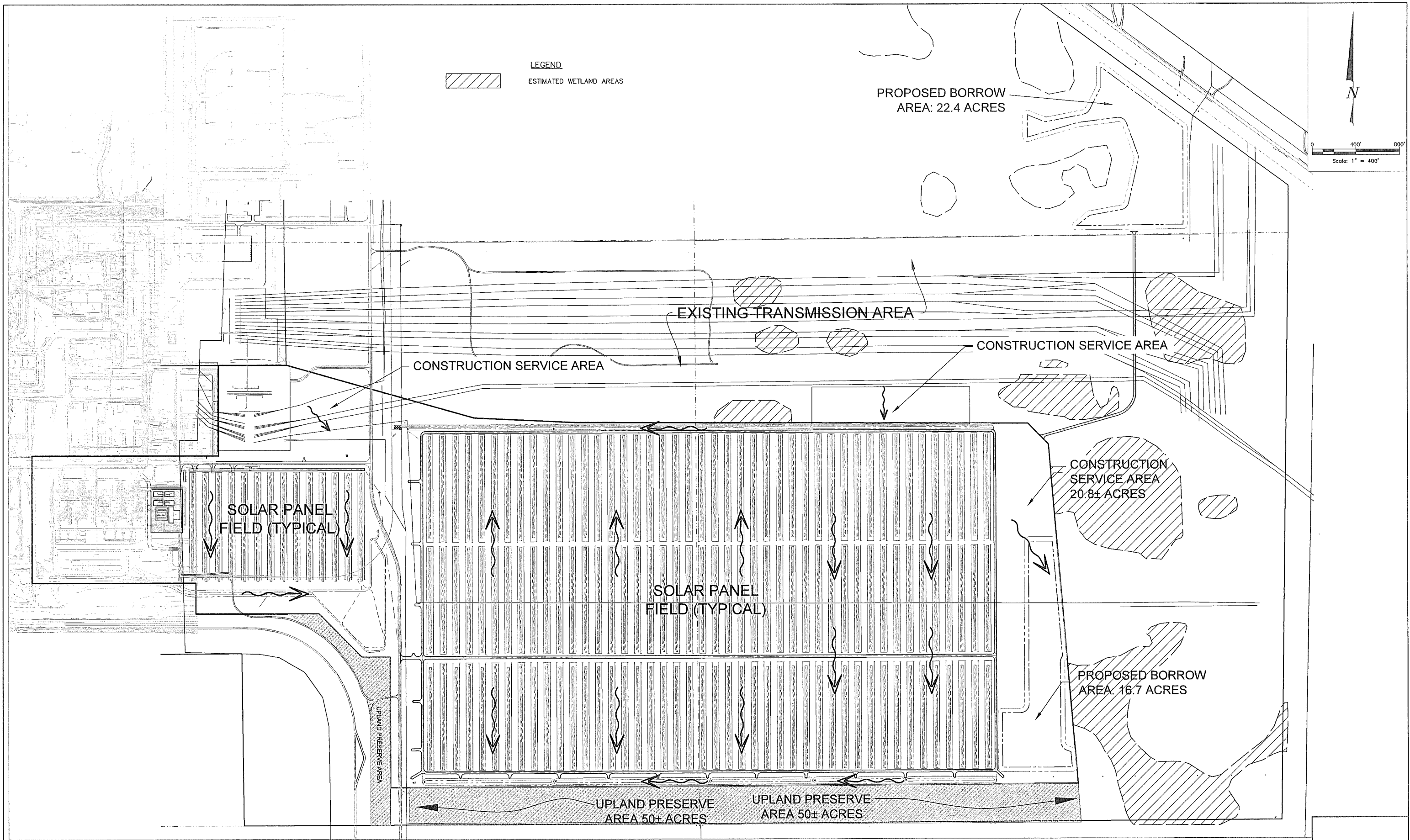
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FLORIDA POWER & LIGHT
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CLEARING AND GRUBBING
& EROSION CONTROL SHEET

SHEET
17038-C4
OF
17038-C17

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FLORIDA POWER & LIGHT
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CONSTRUCTION DRAINAGE PLAN

SHEET
17038-C5
OF
17038-C18

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LEGEND

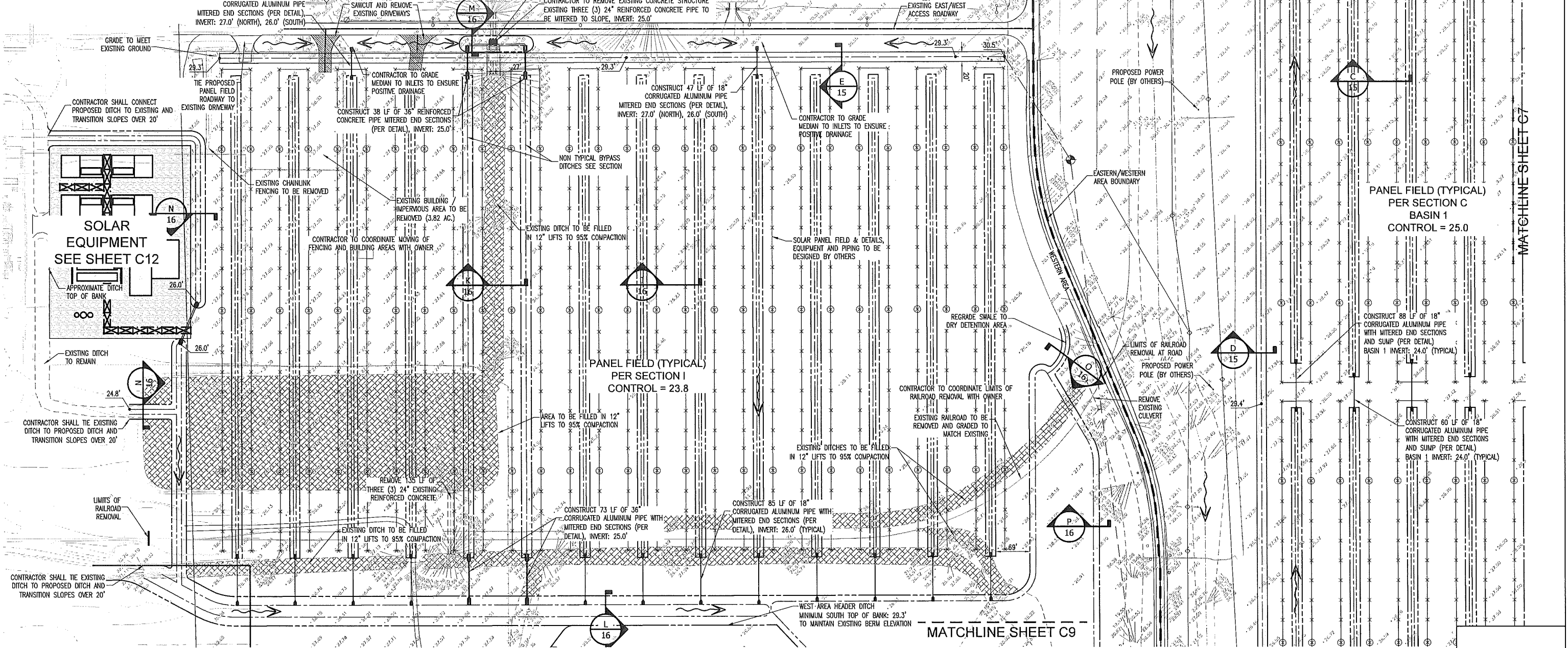
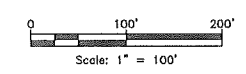
- PROPOSED ROADWAYS
- DETENTION/ DITCH AREA TO BE FILLED
- UPLAND PRESERVE AREA
- DRIVEWAY REMOVAL
- PROPOSED COLLECTOR LOOP WITH PYLONS (BY OTHERS)
- PROPOSED DRIVE PYLON (BY OTHERS)
- CENTERLINE OF PROPOSED ROADS
- PROPOSED TOE OF SLOPE
- PROPOSED TOP OF BANK
- PROPOSED GRADE
- PROPOSED FLOW ARROW
- PROPOSED BASIN DIVIDE
- EXISTING TOP-OF-BANK
- EXISTING FENCE
- EXISTING GRADE

NOTES:

- SOLAR PANEL FIELD & DETAILS, EQUIPMENT AND PIPING TO BE DESIGNED BY OTHERS
- ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88)

WEST AREA LAND USE			
	EXISTING	PROPOSED	PREVIOUSLY PERMITTED
IMPERVIOUS	96.20 AC.	116.20 AC.	116.60 AC.
PERVIOUS	119.60 AC.	99.60 AC.	99.20 AC.
TOTAL	215.80 AC.	215.80 AC.	215.80 AC.
PERCENT IMPERVIOUS	44.5	53.8	54.00
DRY DETENTION (WITHIN PROJECT AREA)	6.82	7.10	---

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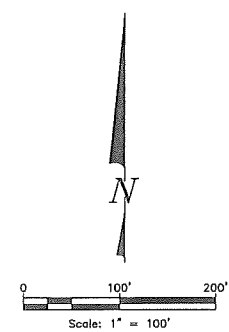
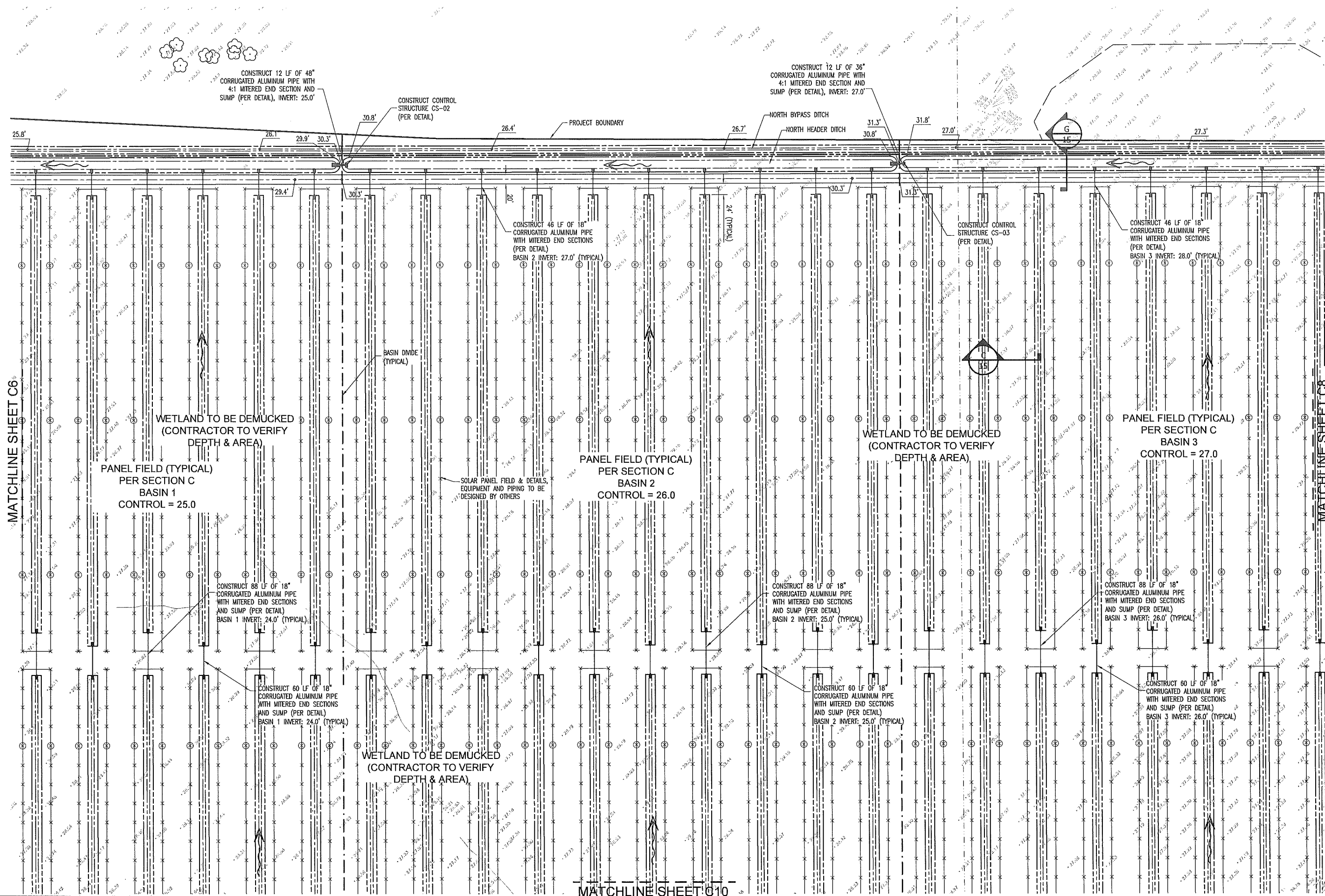
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OF
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LEGEND

- PROPOSED ROADWAYS
- DETENTION/ DITCH AREA TO BE FILLED
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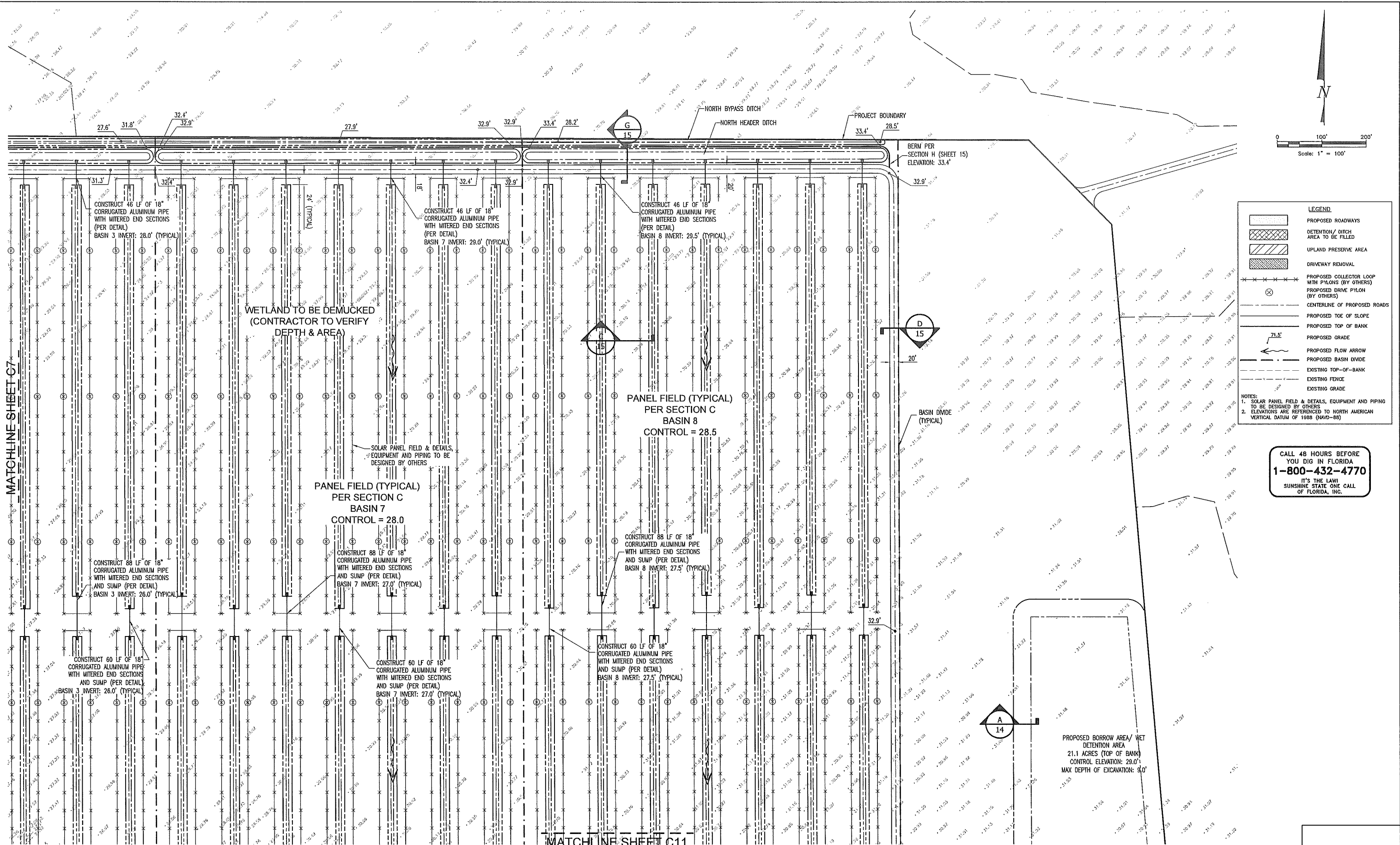
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				CH				COR			
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SHEET
17038-C7
OF
17038-C17

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LEGEND

- PROPOSED ROADWAYS
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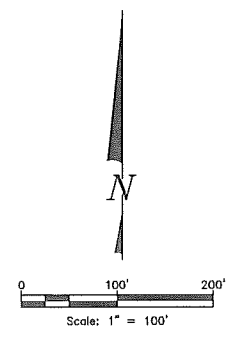
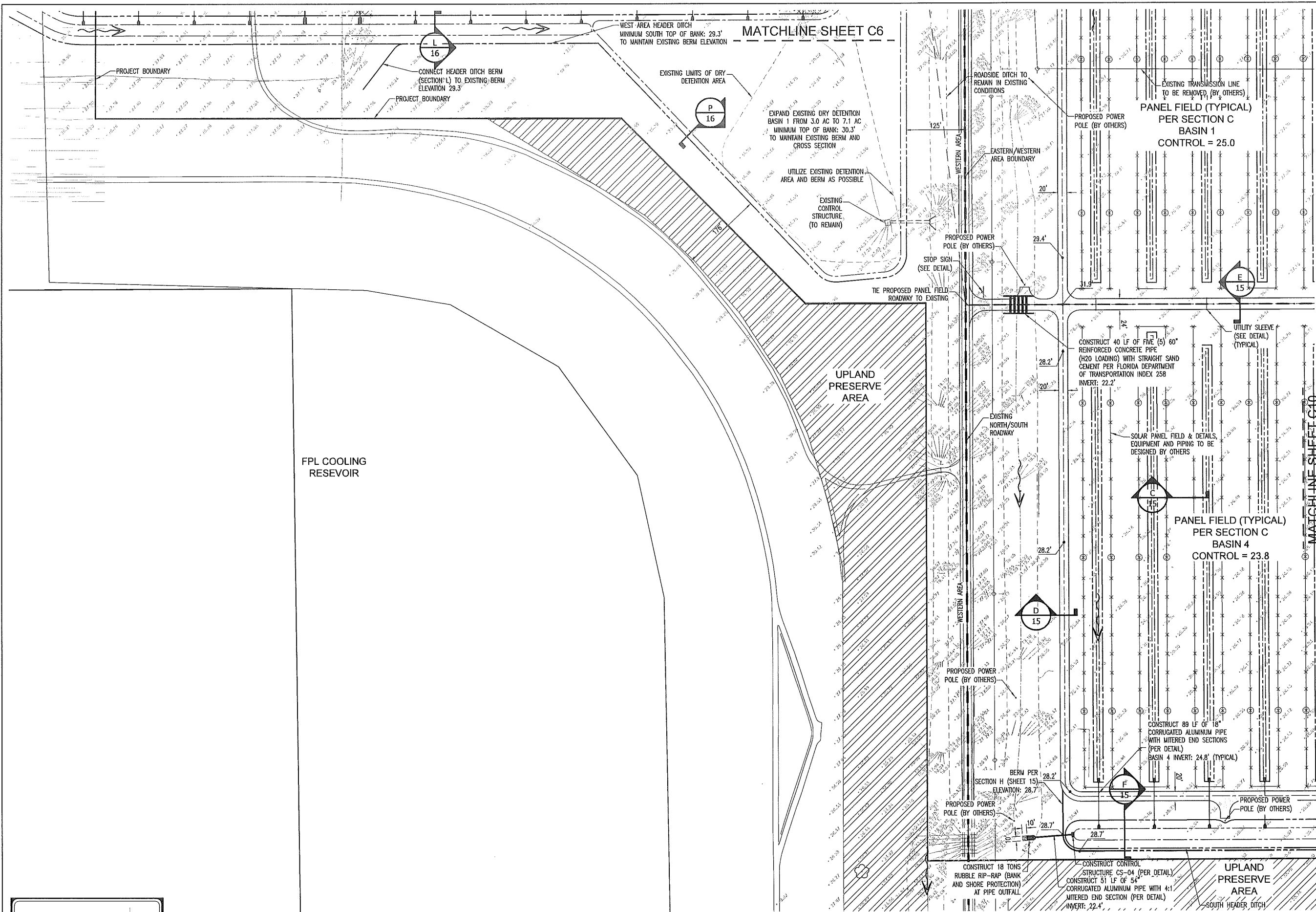
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17038-C8
OF
17038-C17

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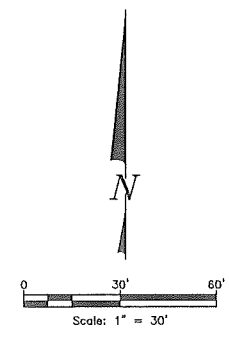
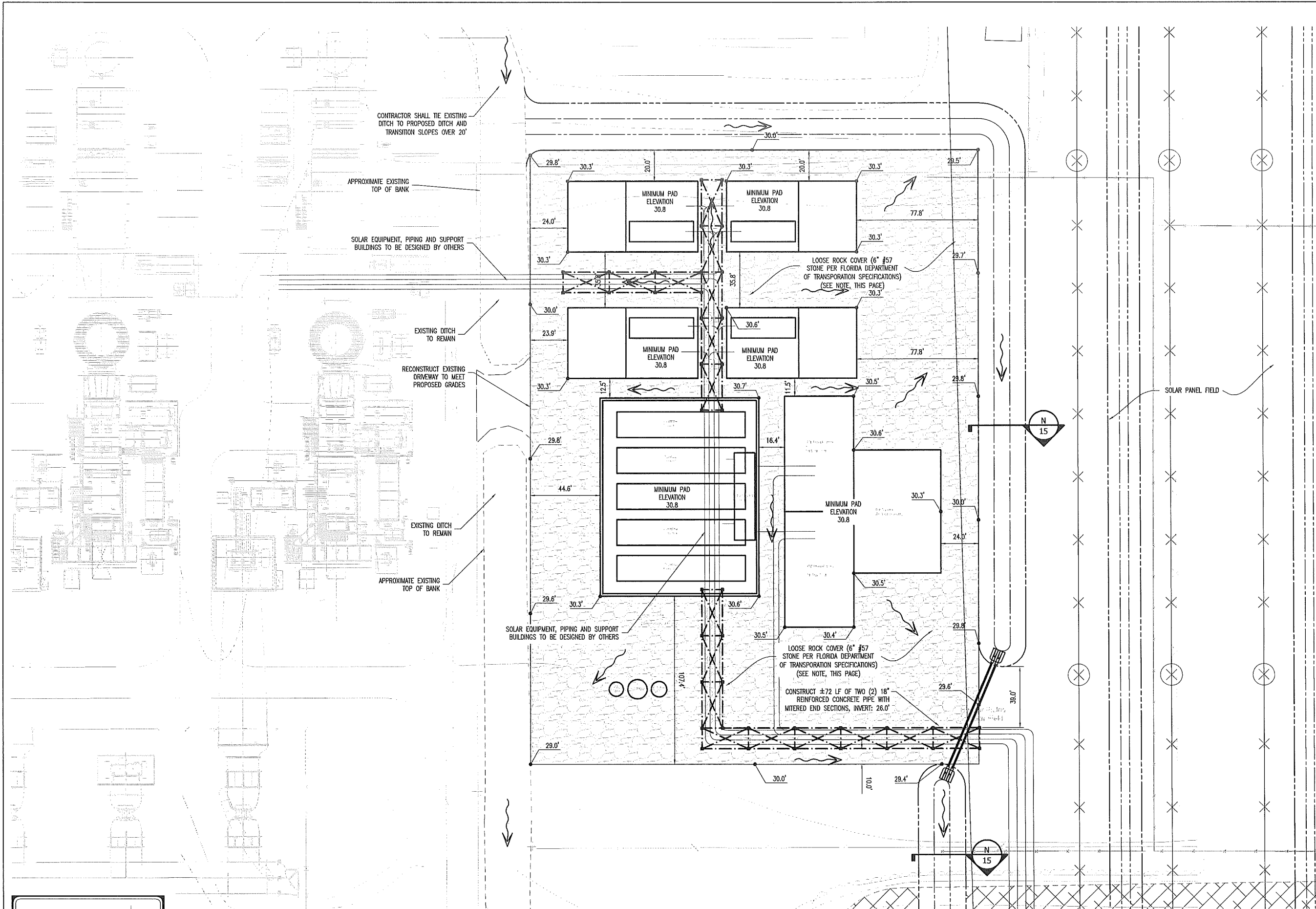
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THE MARTIN SOLAR
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PAVING, GRADING, & DRAINAGE PLAN

SHEET
17038-C9
OF
17038-C17

REV NO

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No. 63997
BOYLE ENGINEERING CORP. No. 2005
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OKEECHOBEE, FL 34972
ENGINEER'S SEAL



NOTE: ROCK COVER TO BE PROVIDED BY OTHERS PRIOR TO PROJECT COMPLETION. ELEVATIONS AS PROVIDED ARE TO THE TOP OF ROCK COVER. ROUGH GRADING TO BE 6" BELOW TOP OF ROCK.

LEGEND

	PROPOSED ROADWAYS
	DETENTION / DITCH AREA TO BE FILLED
	UPLAND PRESERVE AREA
	DRIVEWAY REMOVAL
	PROPOSED COLLECTOR LOOP WITH PYLONS (BY OTHERS)
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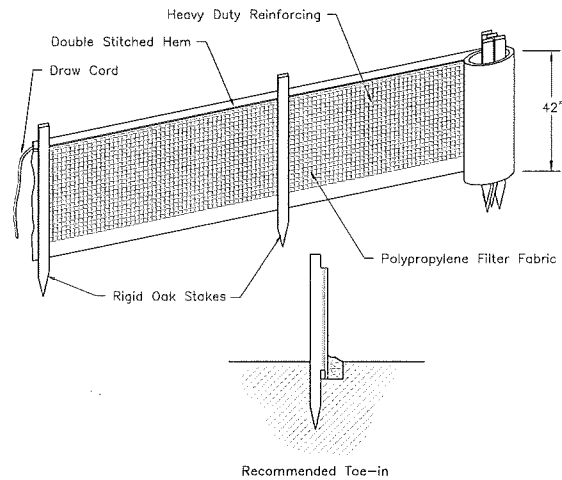
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FLORIDA POWER & LIGHT
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SHEET
17038-C12
OF
17038-C17

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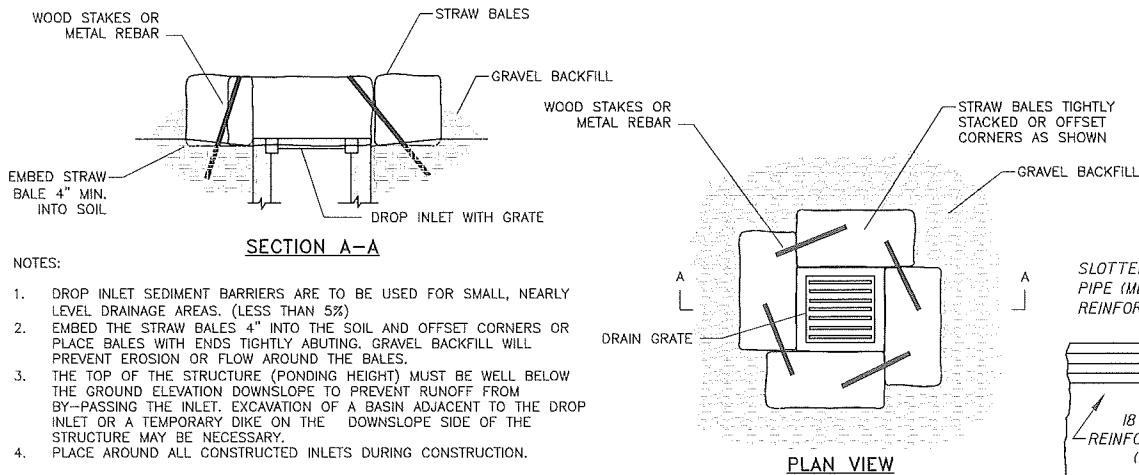


NOTES:

1. Silt Fence shall be installed per manufactures specifications prior to the start of construction and shall not be removed until construction is complete.
2. The Contractor shall inspect and repair the silt fence after each rain event and remove sediment when necessary.
3. Removed sediment shall be deposited in an area that will not contribute sediment offsite and can be permanently stabilized.
4. The silt fence shall be placed on slope contour to maximize its ponding efficiency.
5. If ditch level is deeper than 30", then a Floating Silt Screen shall be used.

SILT FENCE DETAIL

SCALE: N.T.S.

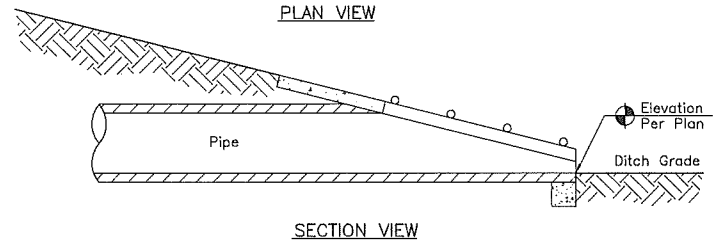
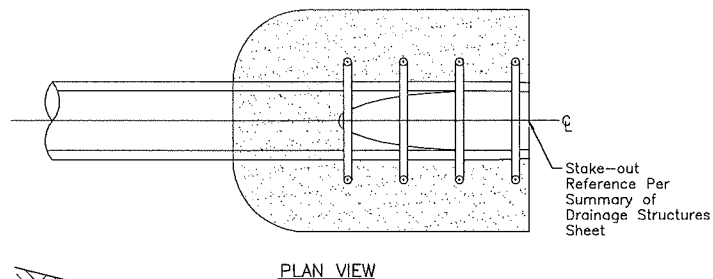


NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EMBED THE STRAW BALES 4" INTO THE SOIL AND OFFSET CORNERS OR PLACE BALES WITH ENDS TIGHTLY ABUTTING. GRAVEL BACKFILL WILL PREVENT EROSION OR FLOW AROUND THE BALES.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE SIDE OF THE STRUCTURE MAY BE NECESSARY.
4. PLACE AROUND ALL CONSTRUCTED INLETS DURING CONSTRUCTION.

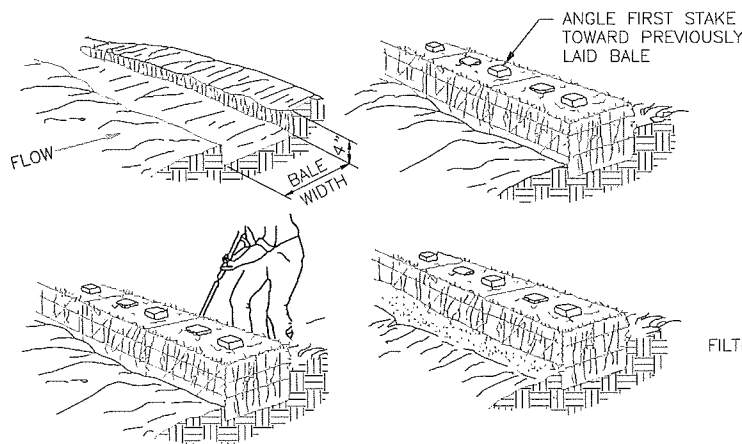
INLET PROTECTION - HAY BALES AND GRAVEL PLAN

N.T.S.



FDOT INDEX 272 & 273 MITERED END SECTIONS

SCALE: N.T.S.

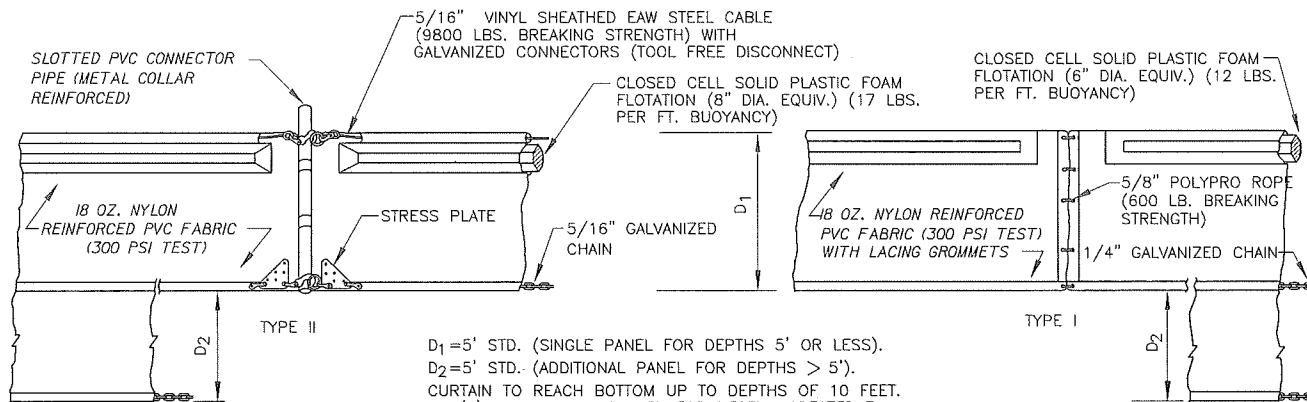
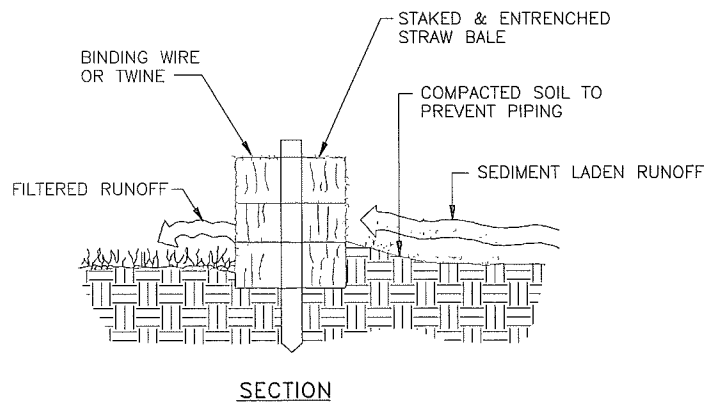


NOTES:

1. EXCAVATE THE TRENCH
2. PLACE AND STAKE STRAW BALES
3. WEDGE LOOSE STRAW BETWEEN BALES
4. BACKFILL AND COMPACT THE EXCAVATED SOIL

STRAW BALE BARRIER

SCALE: N.T.S.



D₁=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).

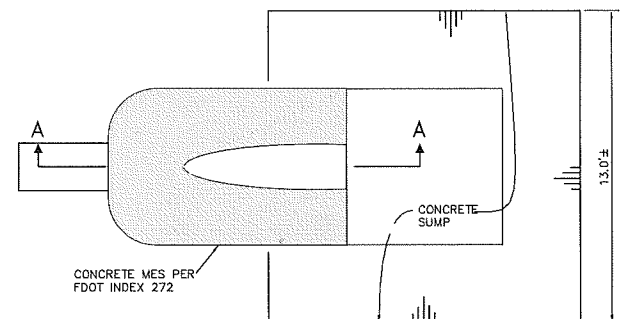
D₂=5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. 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.

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.

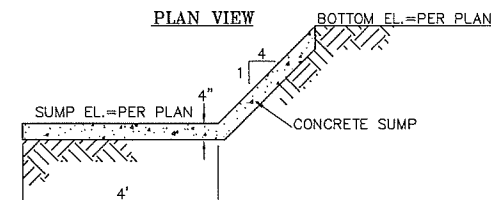
FLOATING TURBIDITY BARRIER

N.T.S.



PLAN VIEW

BOTTOM EL.=PER PLAN



SECTION A-A
(MES NOT SHOWN)

CONCRETE SUMP

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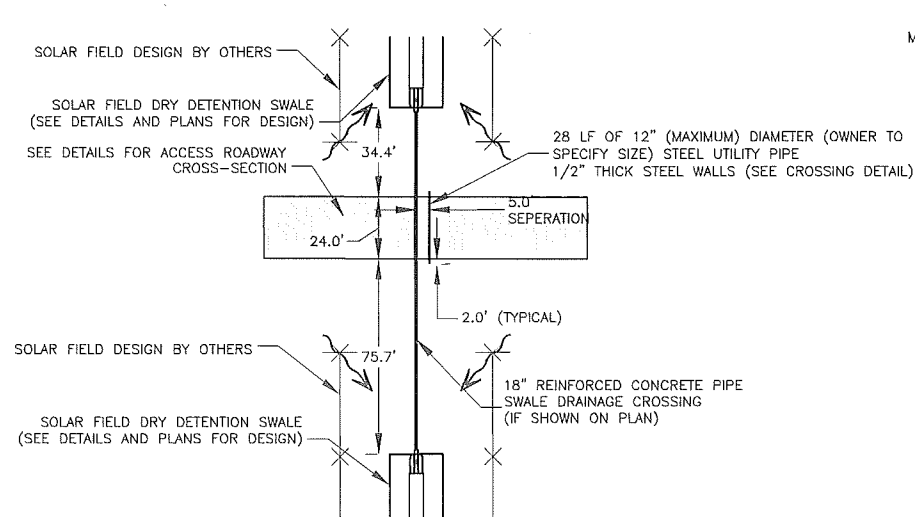
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THE MARTIN SOLAR
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PAVING, GRADING, & DRAINAGE DETAILS

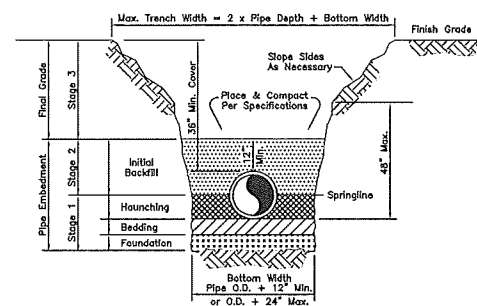
SHEET
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OF
17038-C17

REV NO
MARCOS MONTES DE OCA
No. 63897
BOYLE ENGINEERING CORP. No. 2005
421 NW 3RD STREET
OKEECHOBEE, FL 34972
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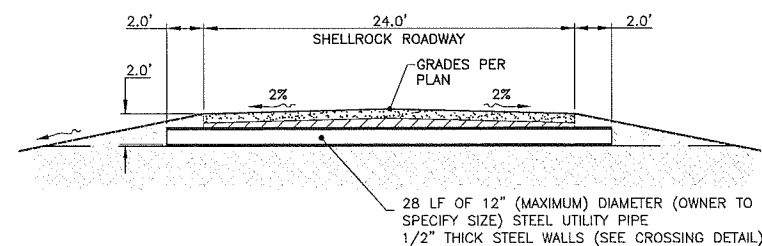
OPEN LOOP SOLAR PANEL FIELD ROAD CROSSING



- NOTES:**
1. Depth of pipe may be field adjusted to meet special conditions as determined by the Owner's Representative.
 2. All trenching shall comply with the requirements of the Florida Trench Safety Act.
 3. **FOUNDATION:** A foundation may be required in poor soil conditions.
 4. **BEDDING:** Bedding is required primarily to bring the trench bottom up to grade and adjust for pipe bells. Bedding materials shall provide a uniform and adequate supporting support and the pipe. Material shall be placed in 4 to 6 lifts, lightly compacted, uniform and not finer than the foundation material.
 5. **HAUNCHING:** Haunching material shall be hand placed to the springline of the pipe. Material shall be consolidated under the pipe and hand tamped to provide adequate pipe support.
 6. **INITIAL BACKFILL:** Initial backfill shall be hand placed to 12" above the top of the pipe. The soil shall be consolidated by hand tamping or walking the soil in place.
 7. **FINAL BACKFILL:** Final backfill material may be machine placed. Material under roadways may require special compaction and density tests.
 8. **DENSITY:** All backfill shall be compacted to the requirements of the Specifications.

DRAINAGE STRUCTURE TABLE							
STRUCTURE #	STRUCTURE TYPE	PIPE INVERT ELEVATION (NAVD)	BOTTOM ELEVATION (NAVD)	RIM ELEVATION (NAVD)	BLEEDER TYPE	BLEEDER DIAMETER (INCHES)	BLEEDER INVERT ELEVATION (NAVD)
CS-01	TYPE H	23.6	23.1	27.6	CIRCLE	10.9	25.0
CS-02	TYPE H	25.0	24.5	28.7	CIRCLE	8.4	26.0
CS-03	TYPE E	27.0	26.5	29.7	CIRCLE	5.9	27.0
CS-04	TYPE H	22.4	21.9	26.3	CIRCLE	10.9	23.8
CS-05	TYPE H	24.0	23.5	27.5	CIRCLE	9.7	25.0
CS-06	TYPE E	27.0	26.5	29.4	CIRCLE	8.6	27.0
CS-07	TYPE E	28.0	27.5	30.7	CIRCLE	7.4	28.0
CS-08	TYPE E	28.5	28.0	31.0	CIRCLE	4.9	28.5

CONTROL STRUCTURE DETAIL
MODIFIED FDOT TYPE "E" OR "H" INLET
NOT TO SCALE



STEEL UTILITY SLEEVE CROSSING
SCALE: NOT TO SCALE

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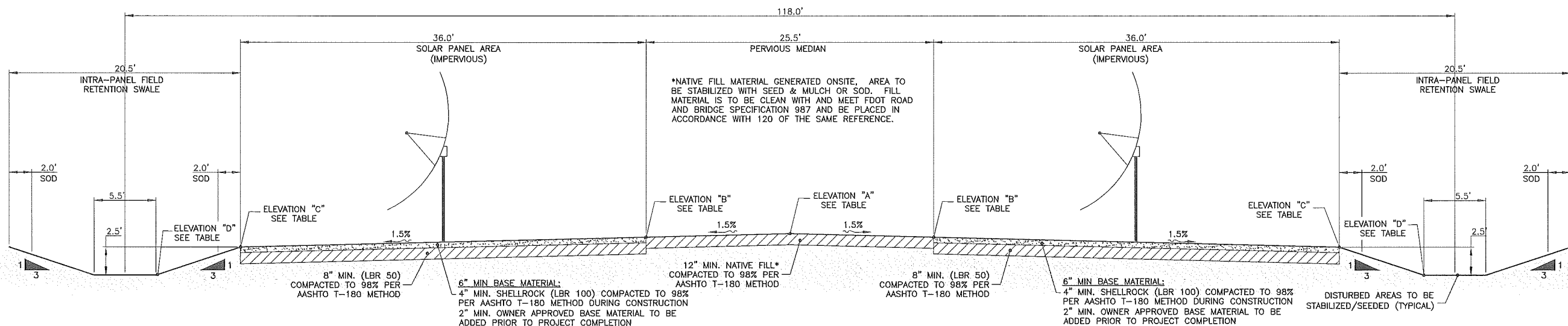
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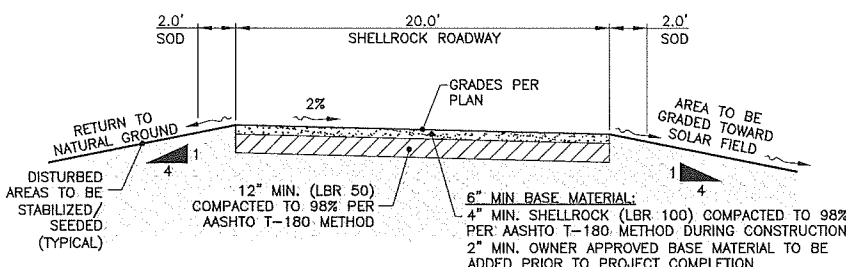
DETAILS ELEVATION SCHEDULE (SECTION C)

Basin #	Elevation A	Elevation B	Elevation C	Elevation D
1	29.2'±	29.0'±	28.5'	26.0'
2	30.2'±	30.0'±	29.5'	27.0'
3	31.2'±	31.0'±	30.5'	28.0'
4	28.0'±	27.8'±	27.3'	24.8'
5	29.2'±	29.0'±	28.5'	26.0'
6	31.2'±	31.0'±	30.5'	28.0'
7	32.2'±	32.0'±	31.5'	29.0'
8	32.7'±	32.5'±	32.0'	29.5'

NOTES:
 1. AT BASIN DIVIDE LOCATIONS ALL ELEVATION "A" SHALL REFERS TO THE UPSTREAM (HIGHER) ELEVATION
 2. ALL ELEVATIONS ARE IN NAVD 88.

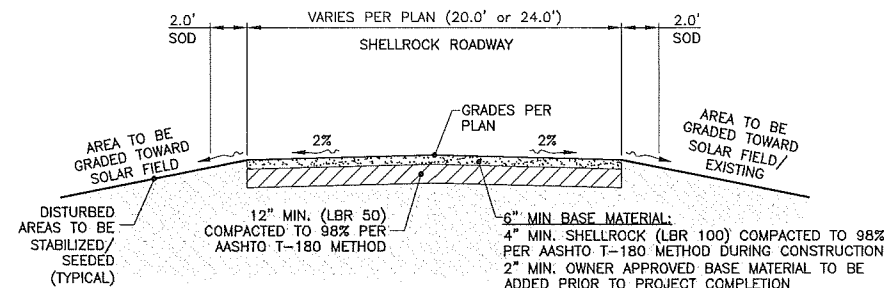
SECTION C: TYPICAL SOLAR PANEL FIELD (EAST AREA)

SCALE: NOT TO SCALE



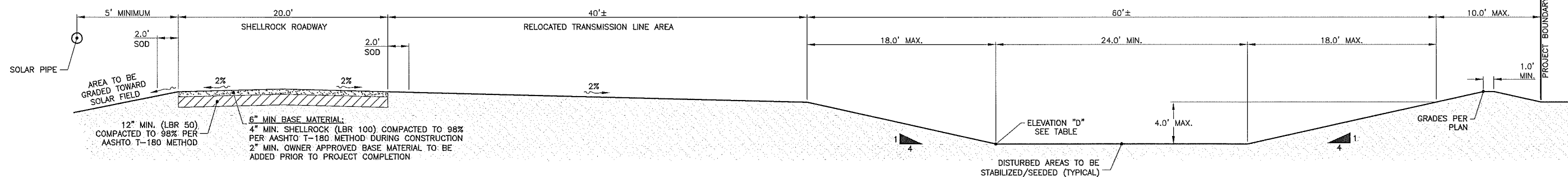
SECTION D: ROADWAY

SCALE: NOT TO SCALE



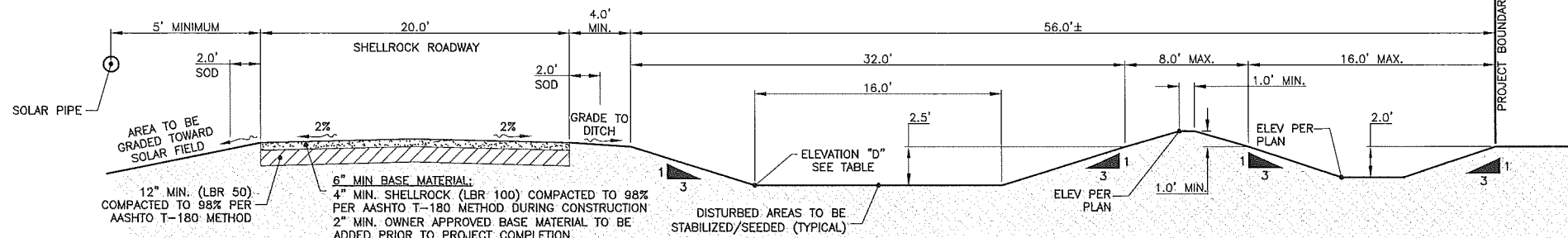
SECTION E: ROADWAY

SCALE: NOT TO SCALE



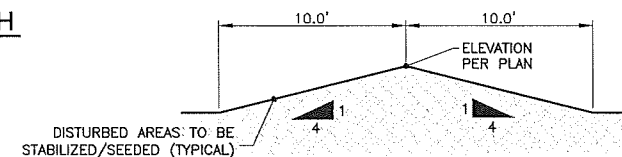
SECTION F: SOUTHERN ROADWAY/DRY DETENTION HEADER DITCH

SCALE: NOT TO SCALE



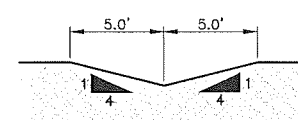
SECTION G: NORTHERN ROADWAY/DRY DETENTION HEADER DITCH/BYPASS DITCH

SCALE: NOT TO SCALE



SECTION H: PERIMETER BERM

SCALE: NOT TO SCALE



SECTION I: SPREADER SWALE / HYDRATION SWALE

SCALE: NOT TO SCALE

SPREADER SWALE SCHEDULE

SPREADER SWALE	TOP OF BANK EL.	TOE OF SLOPE EL.	LINEAR FT. OF SWALE
I-1	28.5'	27.5'	100
I-2	28.5'	27.5'	100

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 421 NW 3rd Street
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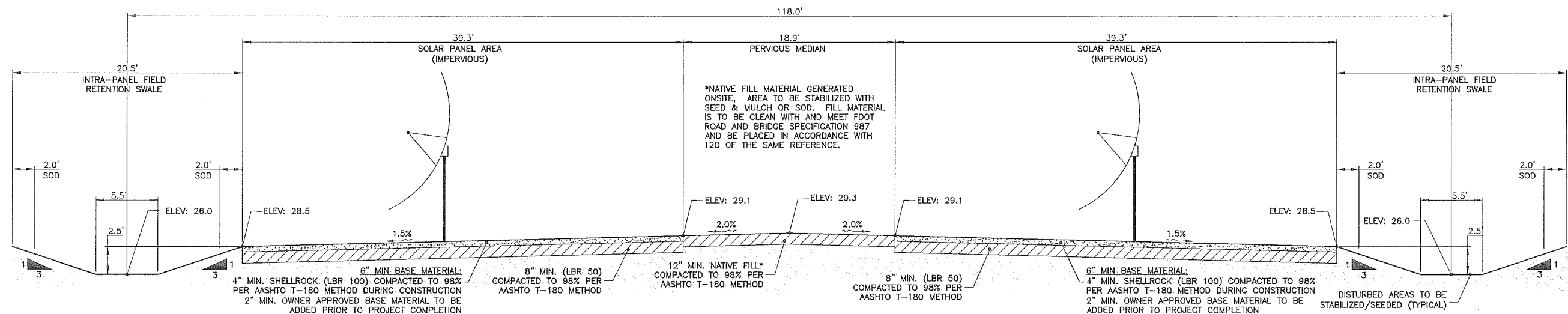
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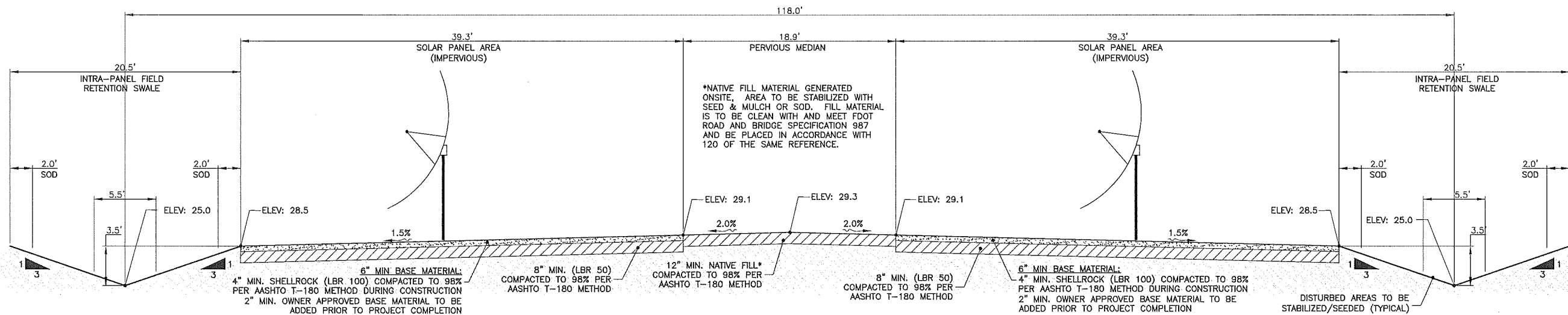
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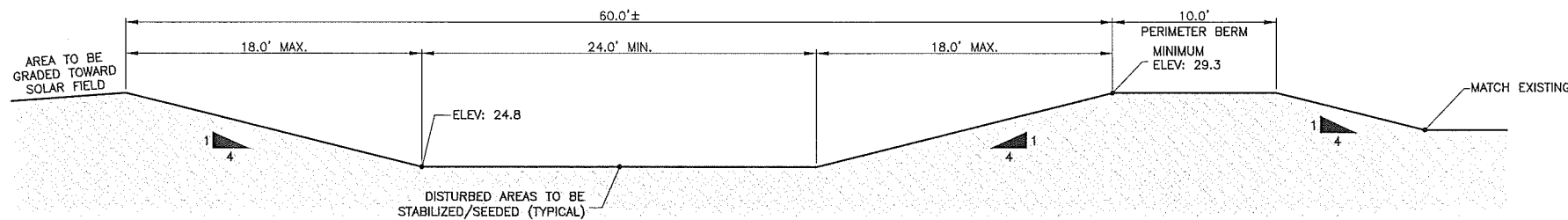
SECTION J: TYPICAL SOLAR PANEL FIELD W/ 2.5 FOOT SWALE (WEST AREA)

SCALE: NOT TO SCALE



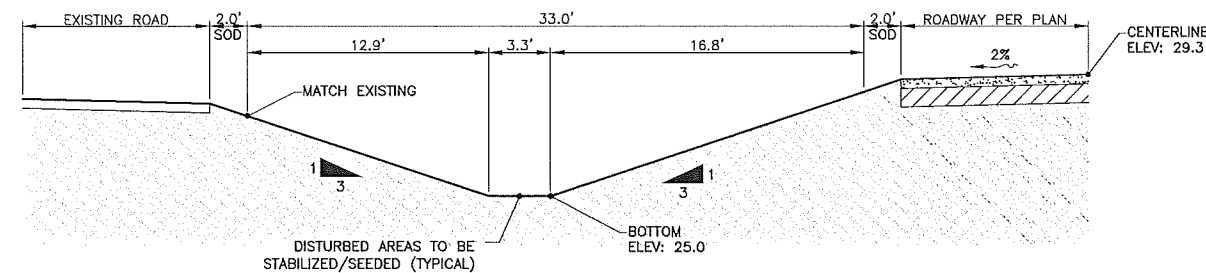
SECTION K: TYPICAL SOLAR PANEL FIELD W/ 3.0 FOOT BYPASS SWALE (WEST AREA)

SCALE: NOT TO SCALE



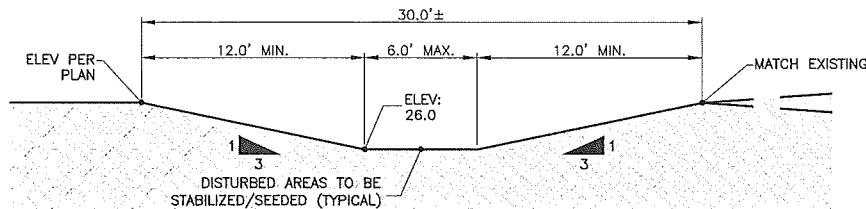
SECTION L: HEADER DITCH (WEST AREA)

SCALE: NOT TO SCALE



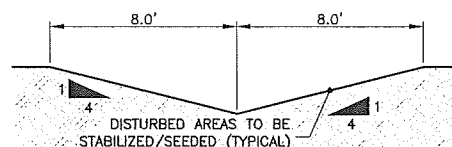
SECTION M: BYPASS/COLLECTION DITCH (WEST AREA)

SCALE: NOT TO SCALE



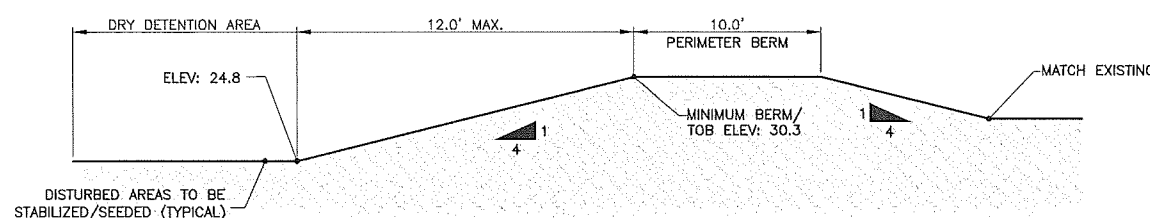
SECTION N: BYPASS/COLLECTION DITCH (WEST AREA)

SCALE: NOT TO SCALE



SECTION O: COLLECTION SWALE

SCALE: NOT TO SCALE



SECTION P: DRY DETENTION (WEST AREA)

SCALE: NOT TO SCALE

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