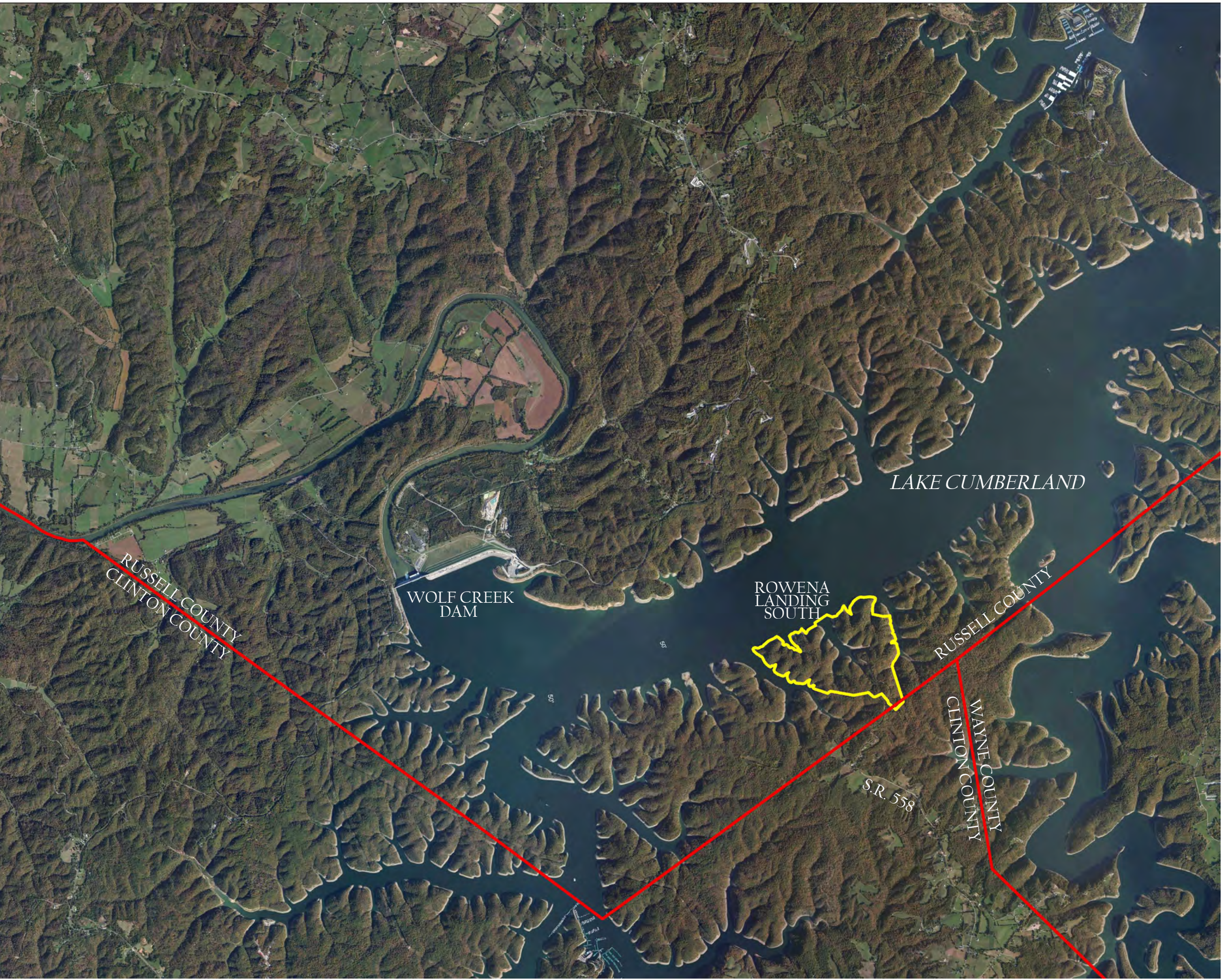
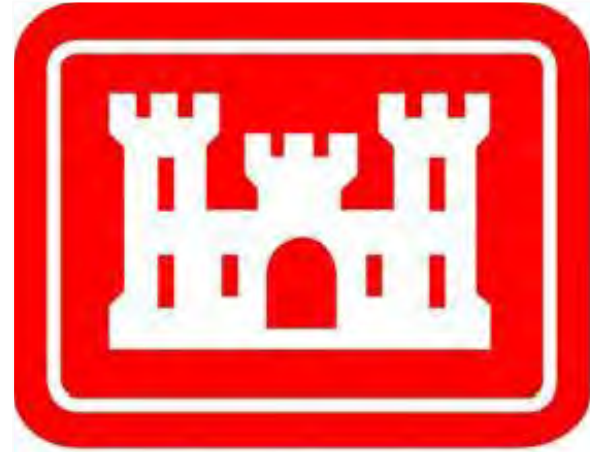


ROWENA LANDING SOUTH
PHASE II - FINAL APPLICATION
SUBMITTED BY: MARINA @ ROWENA, LLC



SUBMITTED TO:



**US Army Corps
of Engineers®**



*APPLICATION / PROPOSAL
FOR
COMMERCIAL MARINA CONCESSIONS
AT*

*WOLF CREEK DAM - LAKE CUMBERLAND PROJECT
ROWENA LANDING SOUTH
PROPOSED MARINA SITE
RUSSELL COUNTY, KENTUCKY*

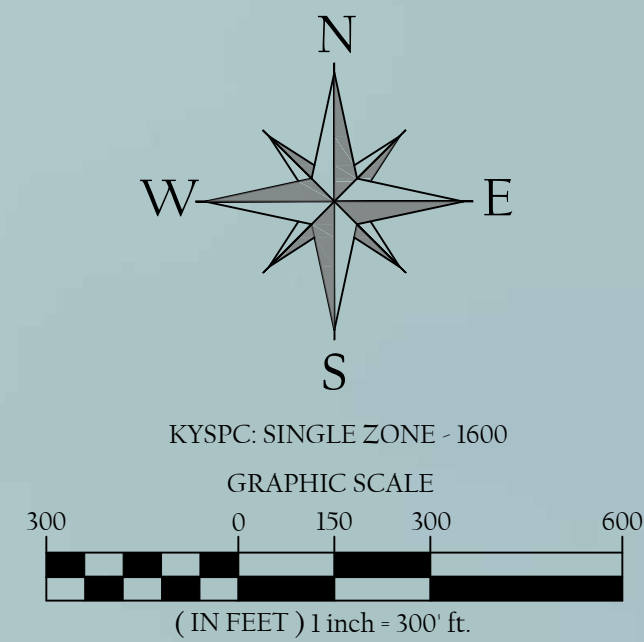
SUBMITTED:

DATE: AUGUST 11, 2016

LOCATION: U.S. ARMY CORPS OF ENGINEERS
NASHVILLE DISTRICT OFFICE
801 BROADWAY
NASHVILLE, TN. 37203

**Public Notice No. 17-05
File No. LRN-2011-00929
Figure 1 of 26**

LANDSCAPE SURVEY: 2013.12.12-01 KANSAS, 12-21-14 ROWENA CONCEPT.DWG

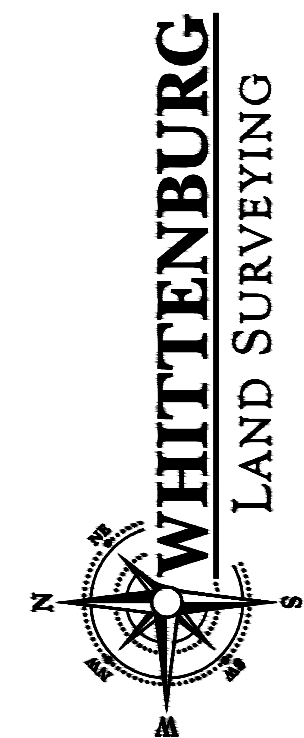


GENERAL NOTES

1. INFORMATION SHOWN HEREON WAS TAKEN FROM A DIGITIZED QUAD MAP PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY.
2. PROJECTION AND 1,000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 16S 10,000-FOOT TICKS.
3. KENTUCKY STATE PLANE COORDINATE SYSTEM OF 1983 (SINGLE ZONE - 1600)
4. CONTOUR INTERVAL EQUALS TWENTY (20) FEET.
5. CUMBERLAND CITY QUADRANGLE.
6. NORMAL SUMMER POOL ELEVATION IS 723.00'.
7. ROAD / TRAIL TO LAKE CUMBERLAND VIA THE OLD ROWENA FERRY ROAD.



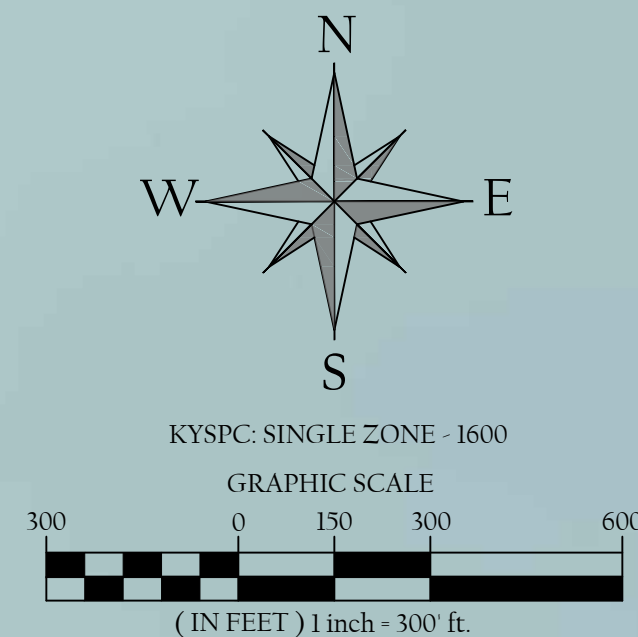
Public Notice No. 17-05
File No. LRN-2011-00929
Figure 2 of 26



RUSSELL COUNTY, KENTUCKY

DATE:	AUGUST 11, 2016	C.W.		T.D.		WK. ORDER	
APPROVED BY:							
DRAWN BY:							
SCALE:	1" = 300'						
JOB NO.	12-014						
REVISIONS							

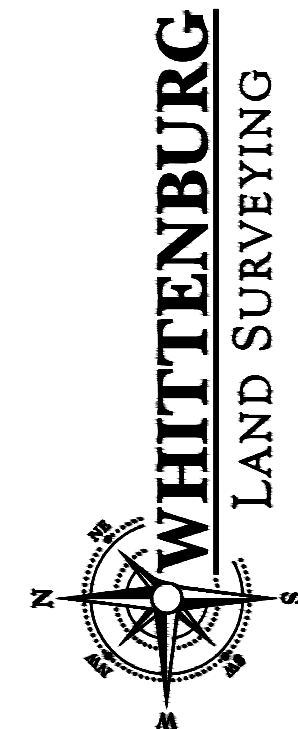
LEASE SITE
PRIOR TO DEVELOPMENT



- GENERAL NOTES**
1. INFORMATION SHOWN HEREON WAS TAKEN FROM A DIGITIZED QUAD MAP PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY.
 2. PROJECTION AND 1,000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 16S 10,000-FOOT TICKS.
 3. KENTUCKY STATE PLANE COORDINATE SYSTEM OF 1983 (SINGLE ZONE - 1600)
 4. CONTOUR INTERVAL EQUALS TWENTY (20) FEET.
 5. CUMBERLAND CITY QUADRANGLE.
 6. NORMAL SUMMER POOL ELEVATION IS 723.00'.
 7. ROAD / TRAIL TO LAKE CUMBERLAND VIA THE OLD ROWENA FERRY ROAD.



Public Notice No. 17-05
File No. LRN-2011-00929
Figure 3 of 26

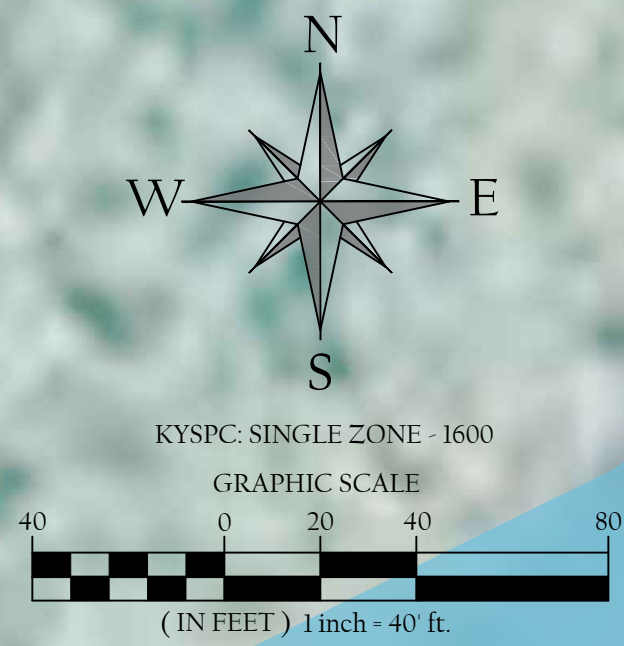


RUSSELL COUNTY, KENTUCKY

DATE:	AUGUST 11, 2016	C.W.		T.D.		WK. ORDER	
APPROVED BY:							
DRAWN BY:							
SCALE:	1" = 300'						
JOB NO.	12-014						
REVISIONS							

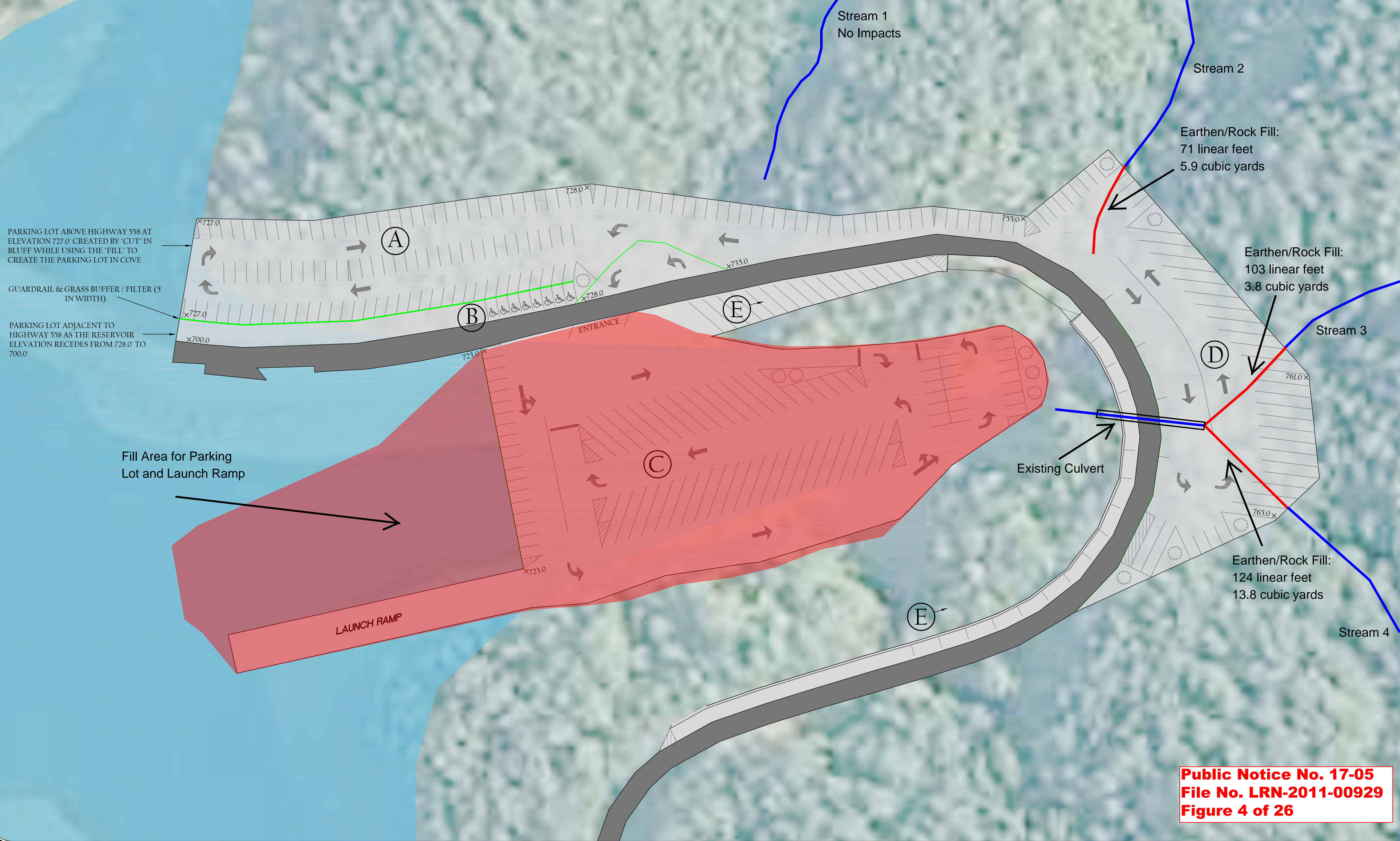
END OF YEAR ONE

LANDSCAPE SURVEY 2013.12-01 14-08-2014 ROWENA CONCEPT.DWG



- GENERAL NOTES**
1. INFORMATION SHOWN HEREON WAS TAKEN FROM A DIGITIZED QUAD MAP PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY.
 2. PROJECTION AND 1000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 16S 10,000-FOOT TICKS.
 3. KENTUCKY STATE PLANE COORDINATE SYSTEM OF 1983 (SINGLE ZONE - 1600)
 4. CONTOUR INTERVAL EQUALS TWENTY (20) FEET.
 5. CUMBERLAND CITY QUADRANGLE.
 6. NORMAL SUMMER POOL ELEVATION IS 723.00'.
 7. PARKING SPACE LAYOUT IS PRELIMINARY

- PARKING LOT LEGEND**
- A. BORROW AREA PARKING LOT CREATED BY CUT IN BLUFF / HILLSIDE FOR FILL TO CREATE LAKE COVE FILL PARKING / LAUNCH AREA.
 - B. PARKING ADJACENT TO BOTH HIGHWAY #558 AND EXISTING HIGH WALL (PARKING SPACES FROM ELEVATION 728.0' TO 700.0' INCREASE AS LAKE RECEDES).
 - C. LAKE COVE FILL PARKING / LAUNCH AREA.
 - D. HOLLOW FILL PARKING AREA (EAST SIDE OF CURVE) WITH FILL FROM BERM OR MOUND REMOVAL.
 - E. PARKING CREATED BY THE REMOVAL OF FOUR MOUNDS ADJACENT TO HIGHWAY #558 AND LAKE COVE FILL / LAUNCH AREA AND ADJACENT TO HIGHWAY #558.



Public Notice No. 17-05
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Figure 4 of 26

WHITTENBURG
LAND SURVEYING

US Army Corps
of Engineers®

MARINA Rowena

ROWENA
LANDING
SOUTH

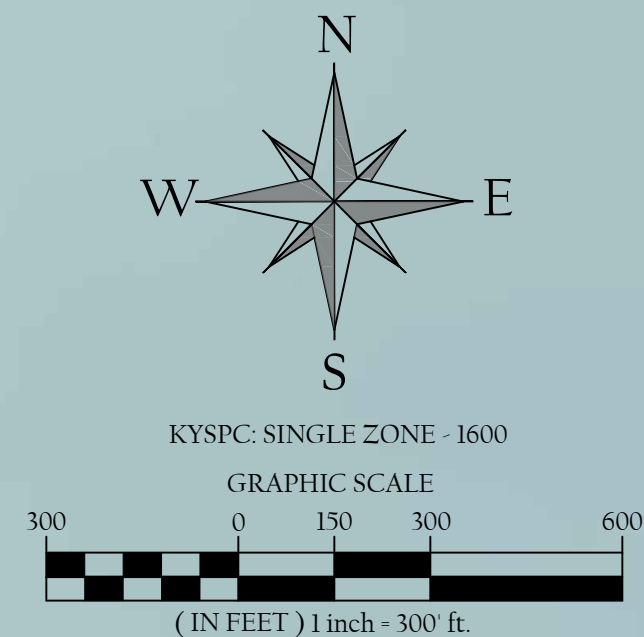
RUSSELL COUNTY, KENTUCKY

DATE:	AUGUST 11, 2016	C.W.:		T.D.:		SCALE:	1" = 40'	WK. ORDER:		REVISIONS:	
APPROVED BY:		DRAWN BY:									

12-014

PARKING
DETAIL

4 of 6



GENERAL NOTES

1. INFORMATION SHOWN HEREON WAS TAKEN FROM A DIGITIZED QUAD MAP PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY.
2. PROJECTION AND 1,000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 16S 10,000-FOOT TICKS.
3. KENTUCKY STATE PLANE COORDINATE SYSTEM OF 1983 (SINGLE ZONE - 1600)
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5. CUMBERLAND CITY QUADRANGLE.
6. NORMAL SUMMER POOL ELEVATION IS 723.00'.
7. ROAD / TRAIL TO LAKE CUMBERLAND VIA THE OLD ROWENA FERRY ROAD.

END OF YEAR TWO DOCK CONSTRUCTION

DOCK A
WAVE BREAK
MAIN DOCK & HEAD PIER
UNCOVERED HOUSEBOAT SLIPS - 55 (4' FINGERS)
COVERED BOAT SLIPS - 79
TOTAL SLIPS - 134
SEE DOCK CONSTRUCTION PLANS FOR DETAIL

LANDSCAPE SURVEY 2013.12.01 14:00:00 12-014 ROWENA CONCEPT.DWG

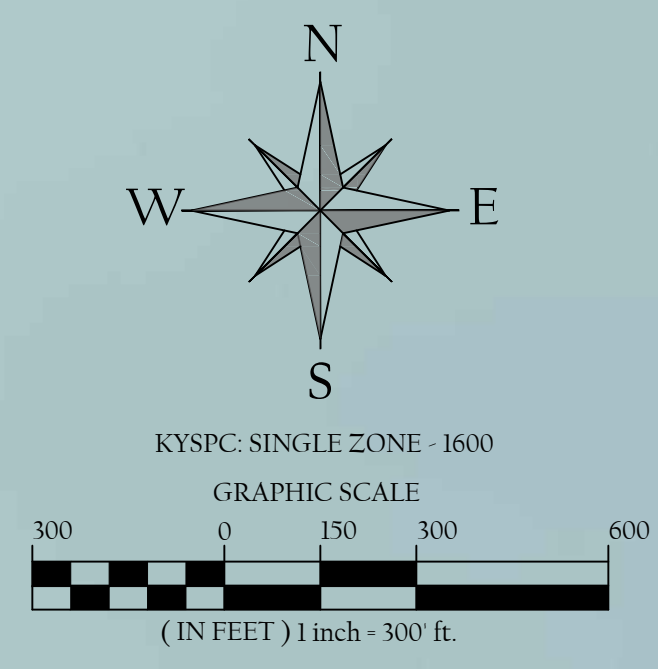
Public Notice No. 17-05
File No. LRN-2011-00929
Figure 5 of 26



RUSSELL COUNTY, KENTUCKY

DATE:	AUGUST 11, 2016	C.W.		T.D.		WK. ORDER	
APPROVED BY:							
DRAWN BY:							
SCALE:	1" = 300'						
JOB NO.	12-014						

END OF YEAR TWO



- GENERAL NOTES**
1. INFORMATION SHOWN HEREON WAS TAKEN FROM A DIGITIZED QUAD MAP PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY.
 2. PROJECTION AND 1,000-METER GRID: UNIVERSAL TRANSVERSE MERCATOR, ZONE 16S 10,000-FOOT TICKS.
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 5. CUMBERLAND CITY QUADRANGLE.
 6. NORMAL SUMMER POOL ELEVATION IS 723.00'.
 7. ROAD / TRAIL TO LAKE CUMBERLAND VIA THE OLD ROWENA FERRY ROAD.
 8. SEE DOCK CONSTRUCTION PLANS FOR DOCK LAYOUT DETAILS.

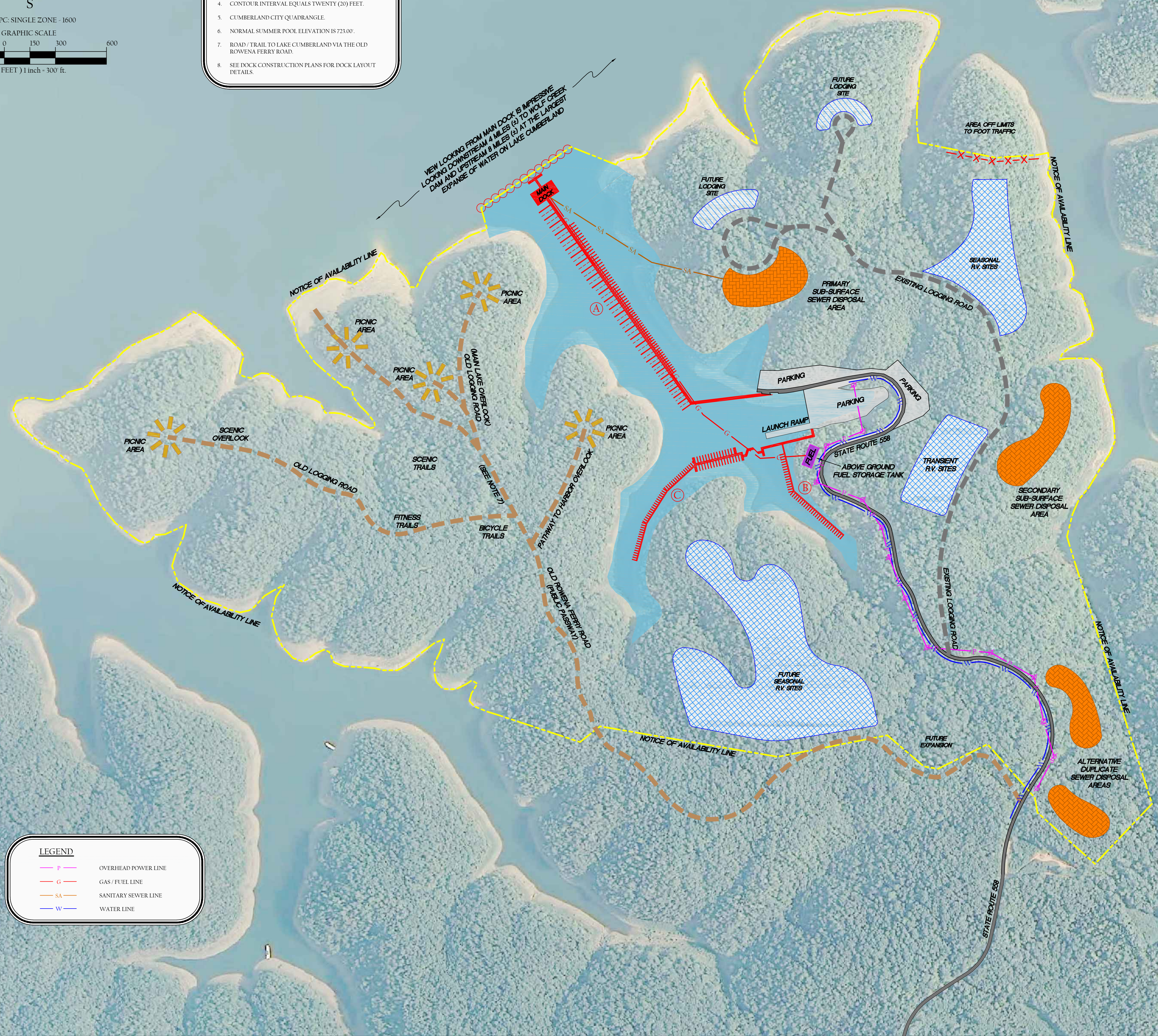
KSPC: SINGLE ZONE - 1600

GRAPHIC SCALE

(IN FEET) 1 inch = 300 ft.

- LEGEND**
- P — OVERHEAD POWER LINE
 - G — GAS / FUEL LINE
 - SA — SANITARY SEWER LINE
 - W — WATER LINE

VIEW LOOKING FROM MAIN DOCK IS IMPRESSIVE
LOOKING DOWNSTREAM 4 MILES (S) TO WOLF CREEK
DAM AND UPSTREAM 8 MILES (S) AT THE LARGEST
EXPANSE OF WATER ON LAKE CUMBERLAND



Public Notice No. 17-05
File No. LRN-2011-00929
Figure 6 of 26

RUSSELL COUNTY, KENTUCKY

DATE:	AUGUST 11, 2016
APPROVED BY:	C.W.
DRAWN BY:	T.D.
SCALE:	1" = 300'
JOB NO.	WK ORDER
12-014	REVISIONS

BEYOND YEARS
ONE AND TWO

6 of 6

ENGINEERING DESIGN BY:



NEAL W SHOEMAKER PE
74 BIGHT LEAF DRIVE
SOMERSET, KENTUCKY 42503
606-305-6762

MARINA AT ROWENA , LLC ROWENA LANDING SOUTH Topographic Survey

ALL WORK ON KYTC RIGHT OF WAY WILL REQUIRE AN ENCROACHMENT PERMIT

Public Notice No. 17-05
File No. LRN-2011-00929
Figure 7 of 26

BORROW AREA MATERIAL IDENTIFICATION

- 1.) NO "OFF SITE " BORROW MATERIAL REQUIRED.
- 2.) ALL BORROW (CUT) MATERIAL WILL BE GENERATED FROM THE ADJACENT SIDE HILL CUTS AS SHOWN
- 3.) MATERIAL CONSISTS OF DURABLE STONE AND SHALES
- 4.) NO ACID PRODUCING MATERIAL IS PRESENT.

CONTOURS BASED ON FIELD SURVEYS BY :
WHITTENBURG LAND SURVEYING AND NEAL W. SHOEMAKER PE
CONTOUR INTERVALS AS SHOWN : 2 FT
CONTOUR ACCURACY +/- 1.0 FOOT
BASED ON ACTUAL FIELD SURVEY WITH GPS EQUIPMENT AND
DEPTH FINDER FOR UNDERWATER CONTOURS.

Earthen/Rock Fill:
71 linear feet
5.9 cubic yards

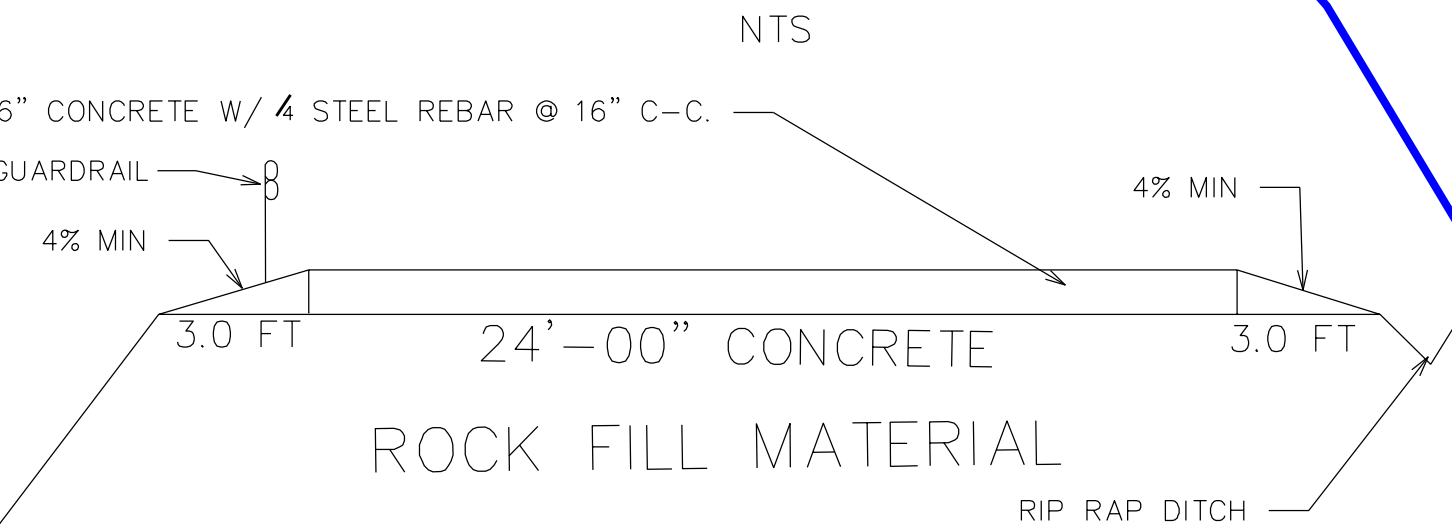
Stream 3

Earthen/Rock Fill:
103 linear feet
3.8 cubic yards

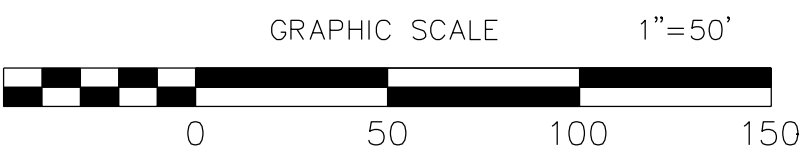
Stream 4

Earthen/Rock Fill:
124 linear feet
13.8 cubic yards

RAMP DETAIL



PLAN VIEW



Normal Summer Pool
Elevation = 723 FT

Fill area for parking lot, launch ramp and
toe of parking lot = 2.77 acres

YARDAGE SUMMARY FILL SUMMARY

FILL REQUIRED FOR 2 AC PARKING W/TOE AND RAMP = 66,988 CY
FILL REQUIRED FOR BORROW AREA ONE = 17.50 CY
FILL REQUIRED FOR DEPRESSION AREA 4 = 2688 CY
FILL REQUIRED FOR DEPRESSION AREA 3 = 8275

TOTAL FILL REQUIRED = 77,968.50 CY
+ 15% SHRINK = 11,695.28 CY
TOTAL FILL REQUIRED = 89663.78 CY

CUT SUMMARY

BORROW AREA 1 = 82113 (CUT)
BORROW AREA 2 = 7086 CY (CUT)
MOUND AREA 1 = 3428 CY (CUT)
MOUND AREA 2 = 4370 CY (CUT)
MOUND AREA 3 = 1556 CY (CUT)
MOUND AREA 4 = 2430 CY (CUT)

TOTAL CUT AVAILABLE = 100,983 CY

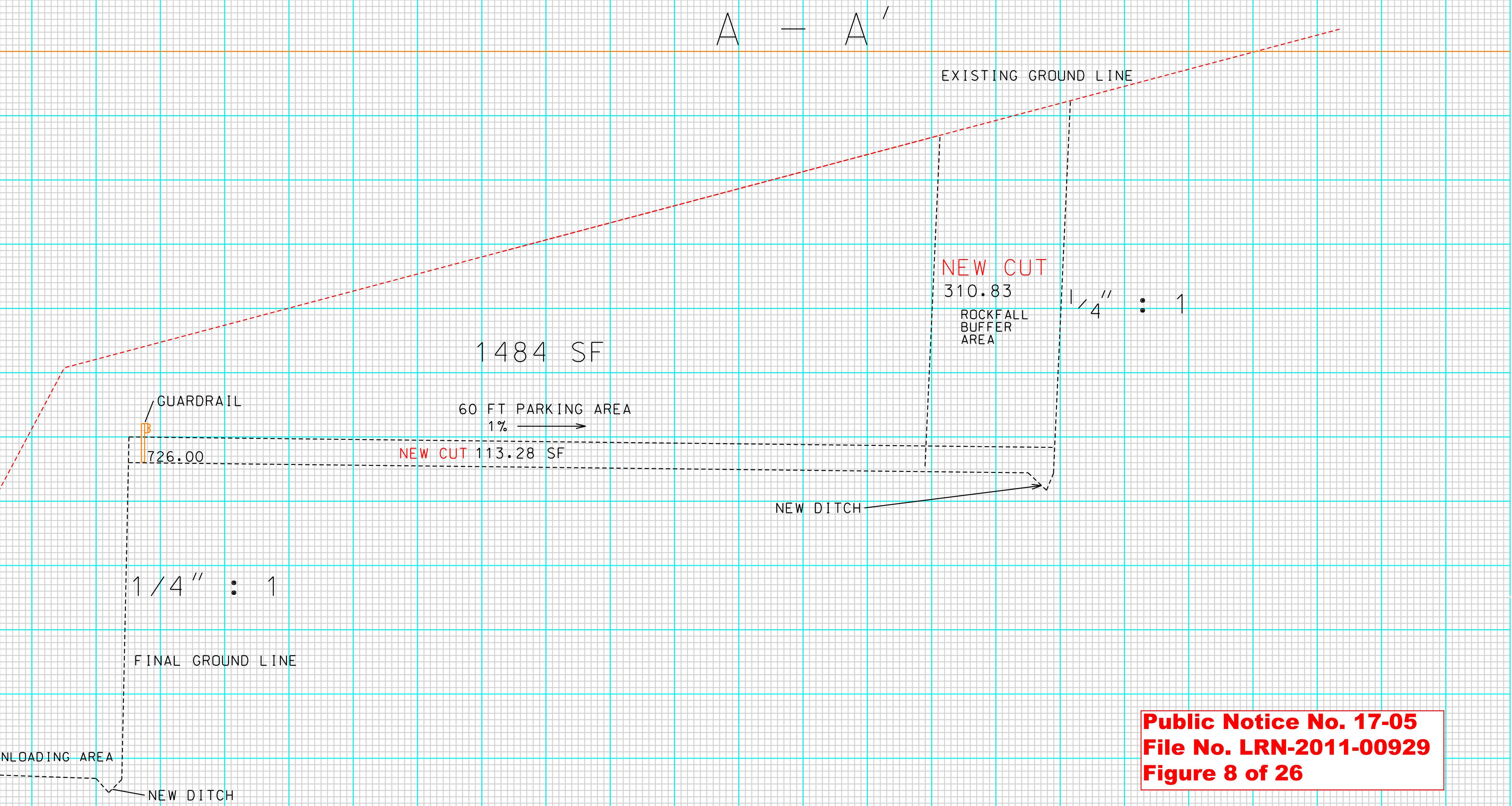
PROJECT REQUIRES COMPLIANCE WITH KENTUCKY
DIVISION OF WATER STORMWATER REQUIREMENTS

NOTES:

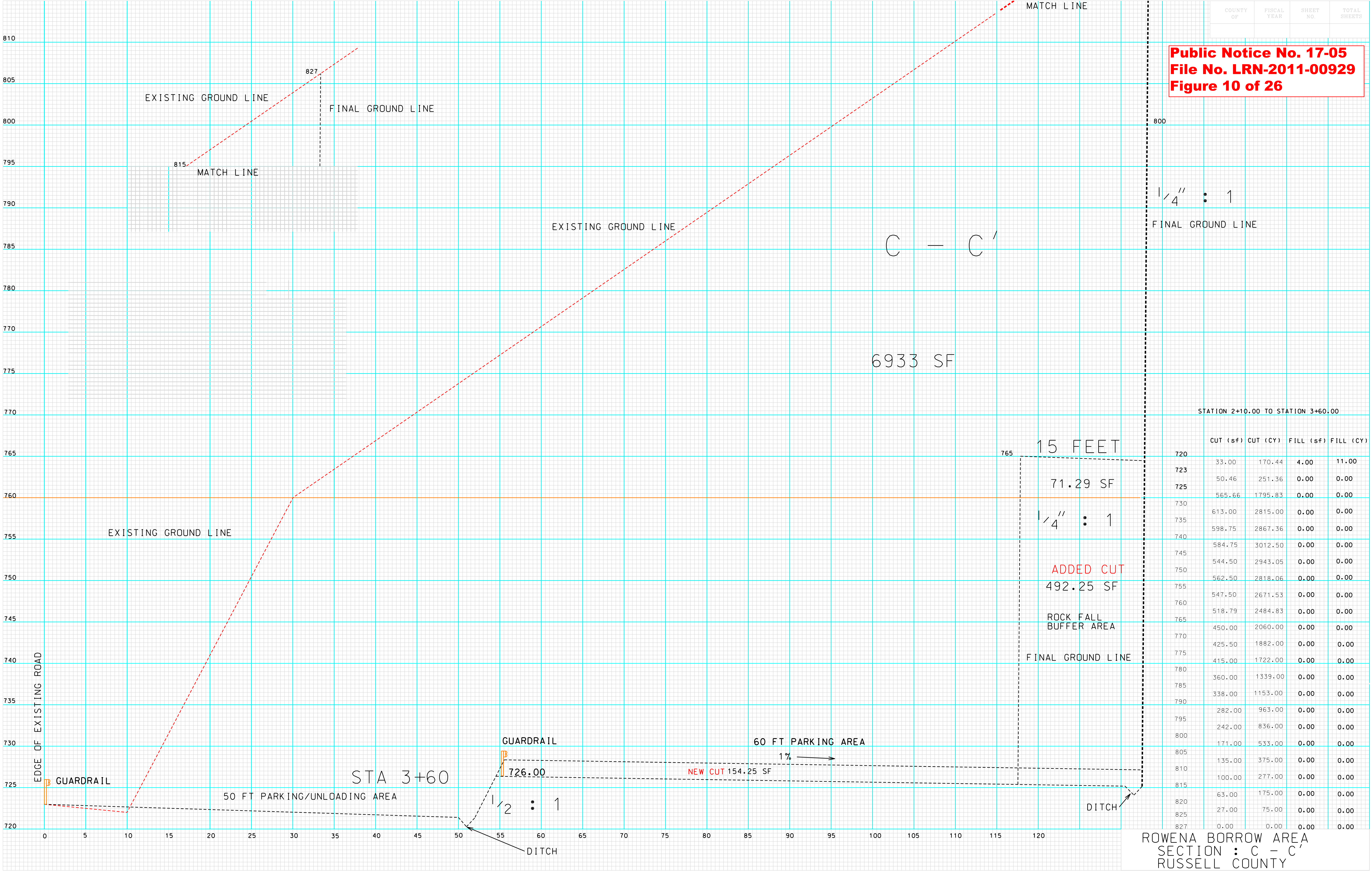
- 1.) PARKING LOT AT 2% SLOPE TOP OF RAMP AT 723.00
- 2.) ALL FILL TO BE ROCK FILL
- 3.) REFER TO CROSS SECTIONS OF BORROW AREA FOR STAKING DETAIL
- 4.) EARTHWORK PAYMENT WILL BE BASED ON BEFORE AND AFTER SURVEY OF BORROW AREAS. CLEARING OF BORROW AREA BEFORE FIELD SURVEY IS CONSIDERED INCIDENTAL TO EARTHWORK.
- 5.) ALL WORK TO BE IN ACCORDANCE WITH " STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" KENTUCKY TRANSPORTAION CABINET/ DEPARTMENT OF HIGHWAYS (CURRENT EDITION)

STATION 0+00 to STATION 0+90
CUT (sf) CUT (CY) FILL (sf) FILL (CY)

700				
	27.63	46.05	6.50	11.00
705	97.45	162.42	0.00	0.00
710	84.95	141.58	0.00	0.00
715	71.75	119.58	0.00	0.00
720	96.15	160.25	0.00	0.00
770	723	136.28	227.13	0.00
	725	220.18	366.96	0.00
765	730	380.25	633.75	0.00
	735	339.25	565.42	0.00
760	740	251.25	418.75	0.00
	745	159.75	266.25	0.00
755	750	72.00	120.00	0.00
750	755	5.00	8.33	0.00
	760			



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Figure 8 of 26



STATION 3+60.00 TO STATION 5+10.00

		CUT (sf)	CUT (CY)	FILL (sf)	FILL (CY)
810	720	0.00	91.66	0.00	0.00
805	723	78.73	358.86	0.00	0.00
	725	424.33	2749.97	0.00	0.00
800	730	360.00	2702.78	0.00	0.00
	735	333.00	2588.19	0.00	0.00
795	740	299.00	2454.86	0.00	0.00
790	745	260.00	2234.72	0.00	0.00
	750	230.00	2201.40	0.00	0.00
785	755	200.00	2076.40	0.00	0.00
	760	165.16	1900.00	0.00	0.00
780	765	141.00	1641.00	0.00	0.00
775	770	110.00	1487.00	0.00	0.00
	775	78.00	1369.00	0.00	0.00
770	780	23.00	1064.00	0.00	0.00
	785	0.00	1153.00	0.00	0.00
765	790	0.00	783.00	0.00	0.00
	795	0.00	672.00	0.00	0.00
760	800	0.00	475.00	0.00	0.00
	805	0.00	375.00	0.00	0.00
755	810	0.00	278.00	0.00	0.00
	815	0.00	175.00	0.00	0.00
750	820	0.00	75.00	0.00	0.00
	825	0.00	75.00	0.00	0.00

STATION 5+10.00 TO END (STA 5+60 AVG.)

		CUT (sf)	CUT (CY)	FILL (sf)	FILL (CY)
720	0.00	0.00	0.00	0.00	0.00
723	78.73	72.90	0.00	0.00	0.00
725	424.33	392.90	0.00	0.00	0.00
730	360.00	333.33	0.00	0.00	0.00
735	333.00	308.33	0.00	0.00	0.00
740	299.00	276.85	0.00	0.00	0.00
745	260.00	240.74	0.00	0.00	0.00
750	230.00	212.96	0.00	0.00	0.00
755	200.00	185.19	0.00	0.00	0.00
760	165.16	152.93	0.00	0.00	0.00
765	141.00	131.00	0.00	0.00	0.00
770	110.00	102.00	0.00	0.00	0.00
775	78.00	72.00	0.00	0.00	0.00
778					

D - D'

FINAL GROUND LINE

1/4" : 1

15 FEET

71.16 SF

FINAL GROUND LINE

529.00 SF

ROCKFALL
BUFFER
AREA

1/4" : 1

1940 SF

EXISTING GROUND LINE

1% SLOPE (MIN)

ADDED CUT 162.08 SF

STA 5+10

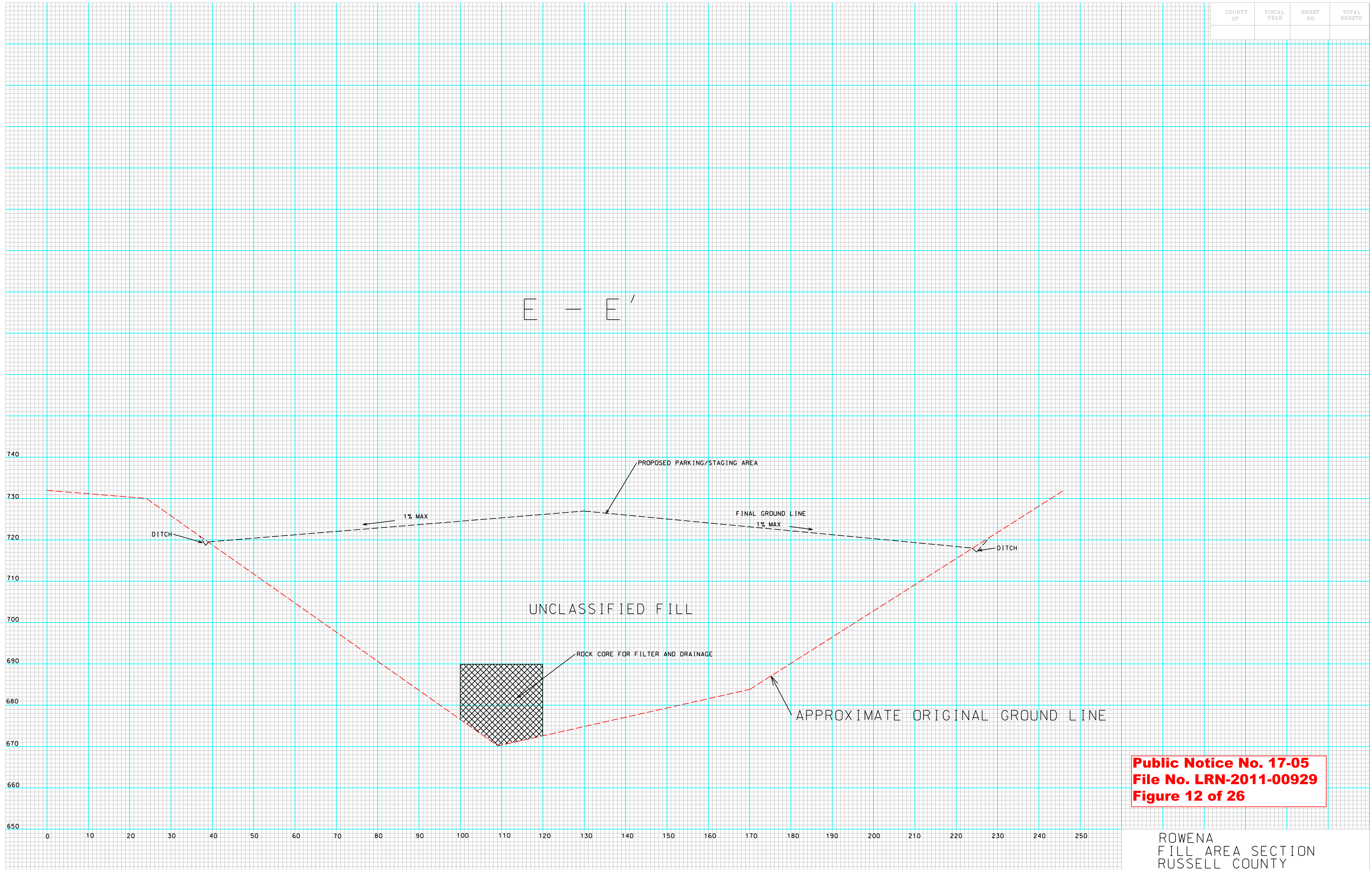
DITCH

BORROW AREA ONE SUMMARY
CUT 82,113 CY
FILL 17.50 CY

Public Notice No. 17-05
File No. LRN-2011-00929
Figure 11 of 26

ROWENA BORROW AREA
SECTION : D - D'
RUSSELL COUNTY

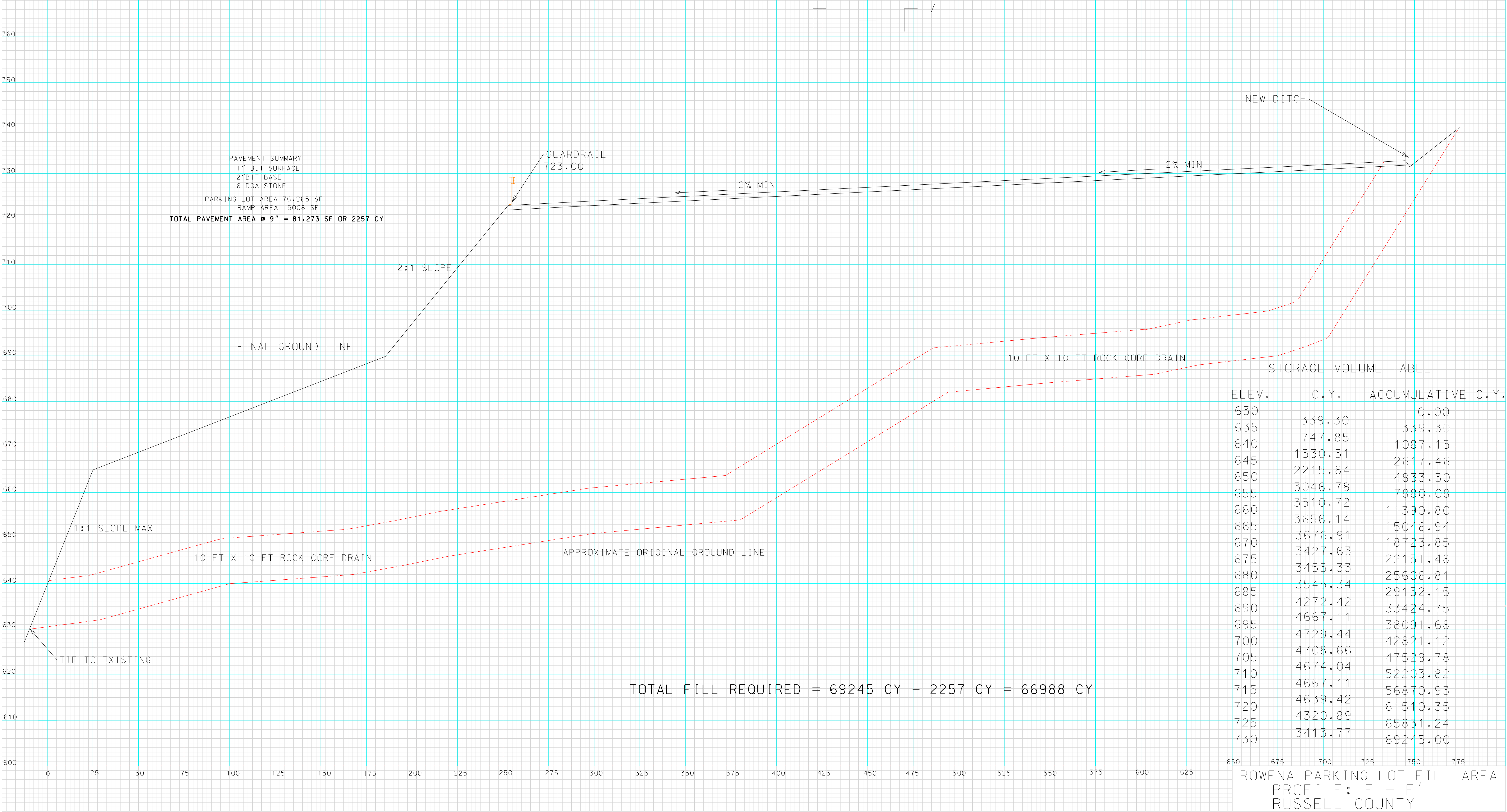
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



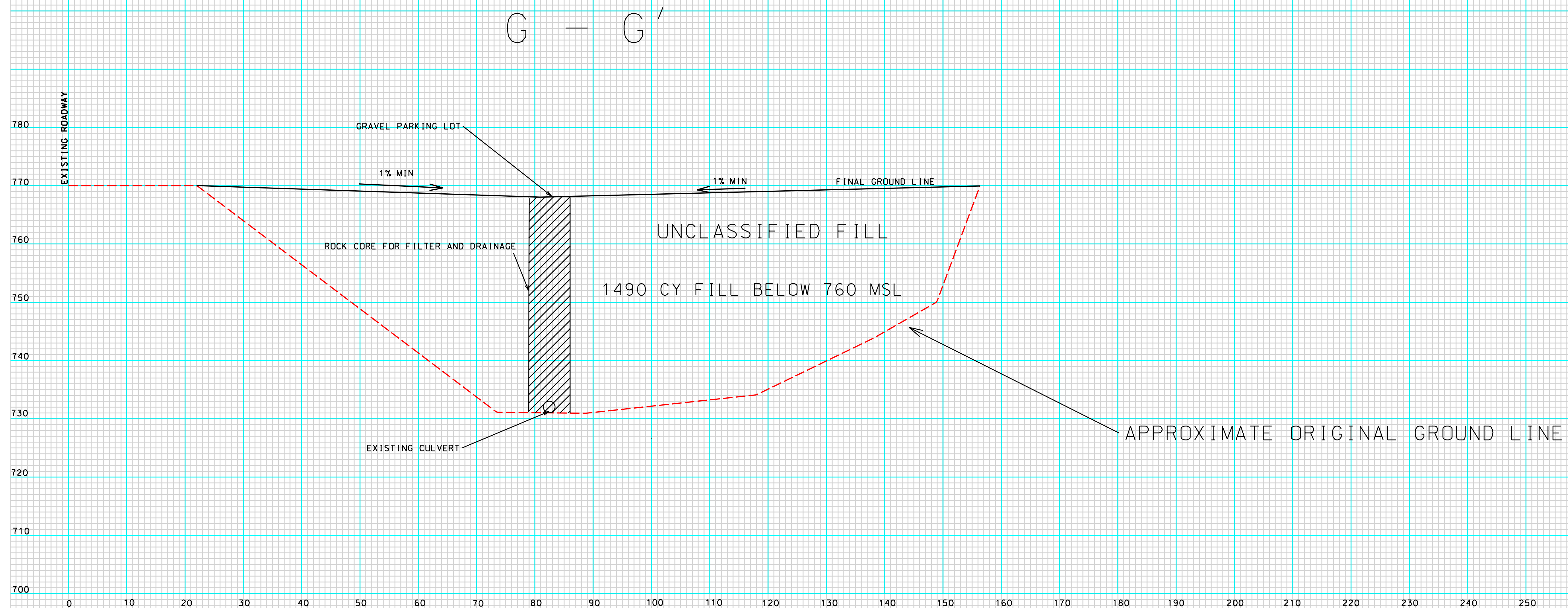
Public Notice No. 17-05
File No. LRN-2011-00929
Figure 12 of 26

ROWENA
FILL AREA SECTION
RUSSELL COUNTY

Public Notice No. 17-05
File No. LRN-2011-00929
Figure 13 of 26



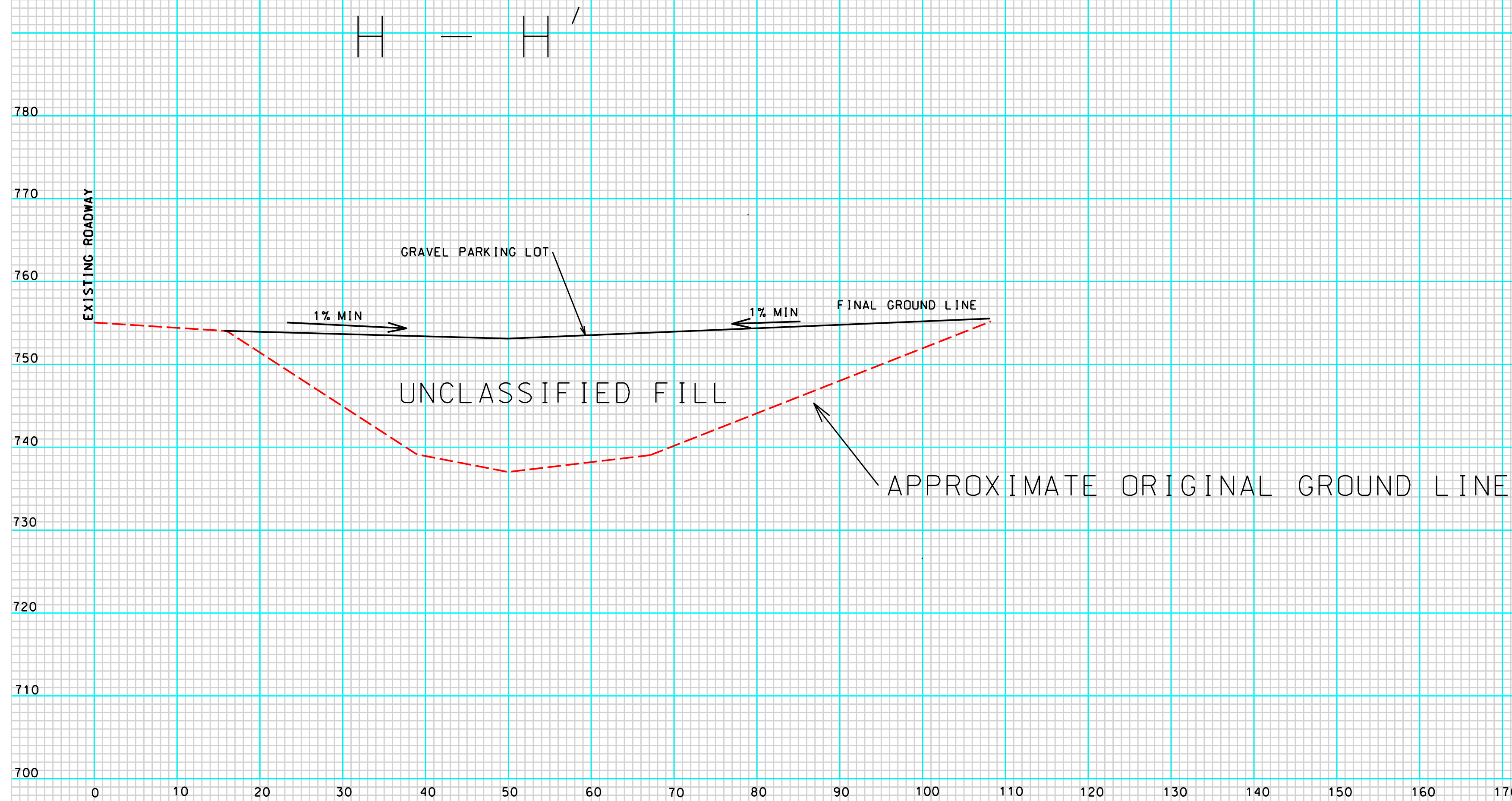
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS



Public Notice No. 17-05
File No. LRN-2011-00929
Figure 14 of 26

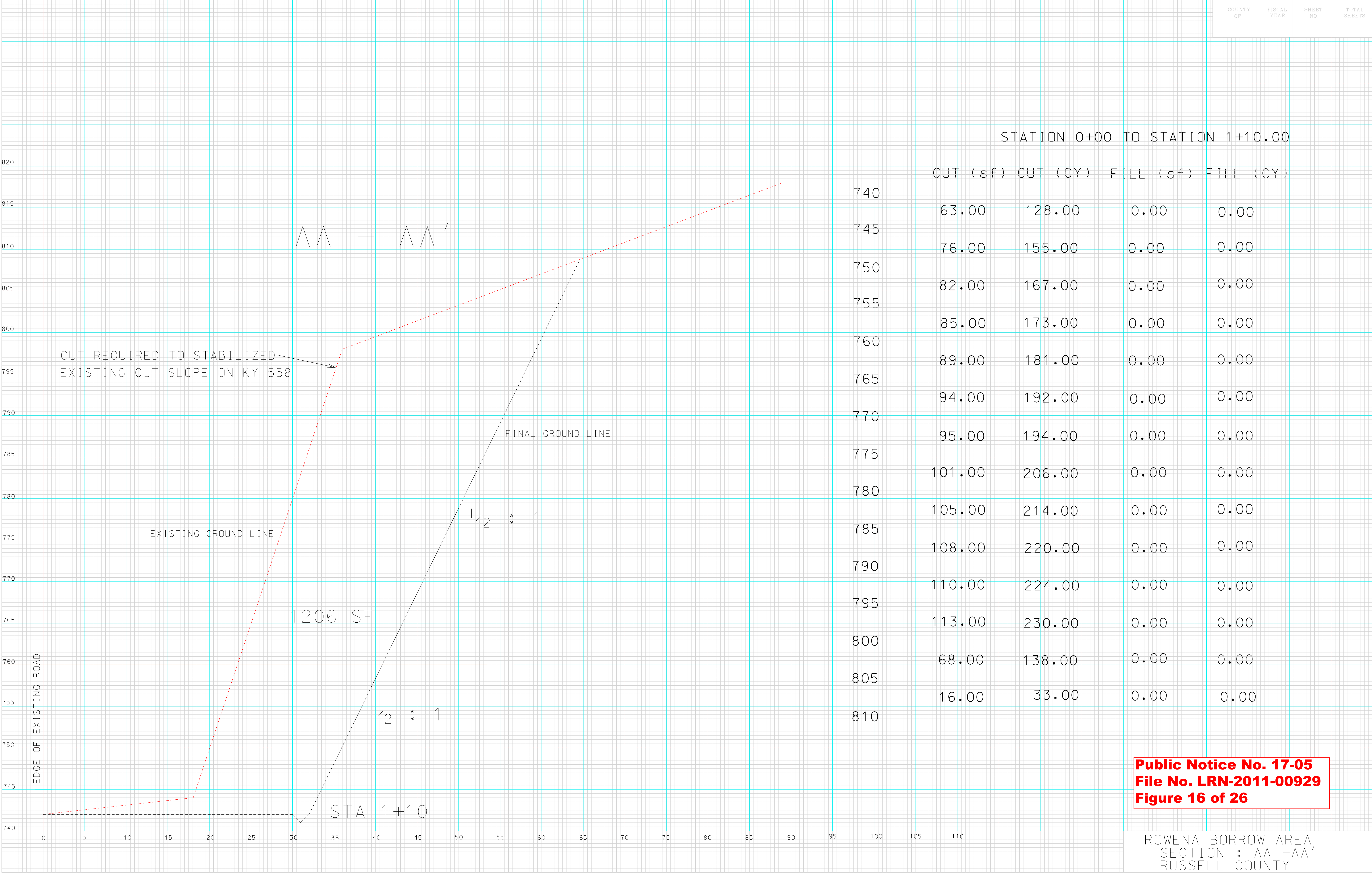
ROWENA
SECTION : G-G' FILL AREA 3
RUSSELL COUNTY

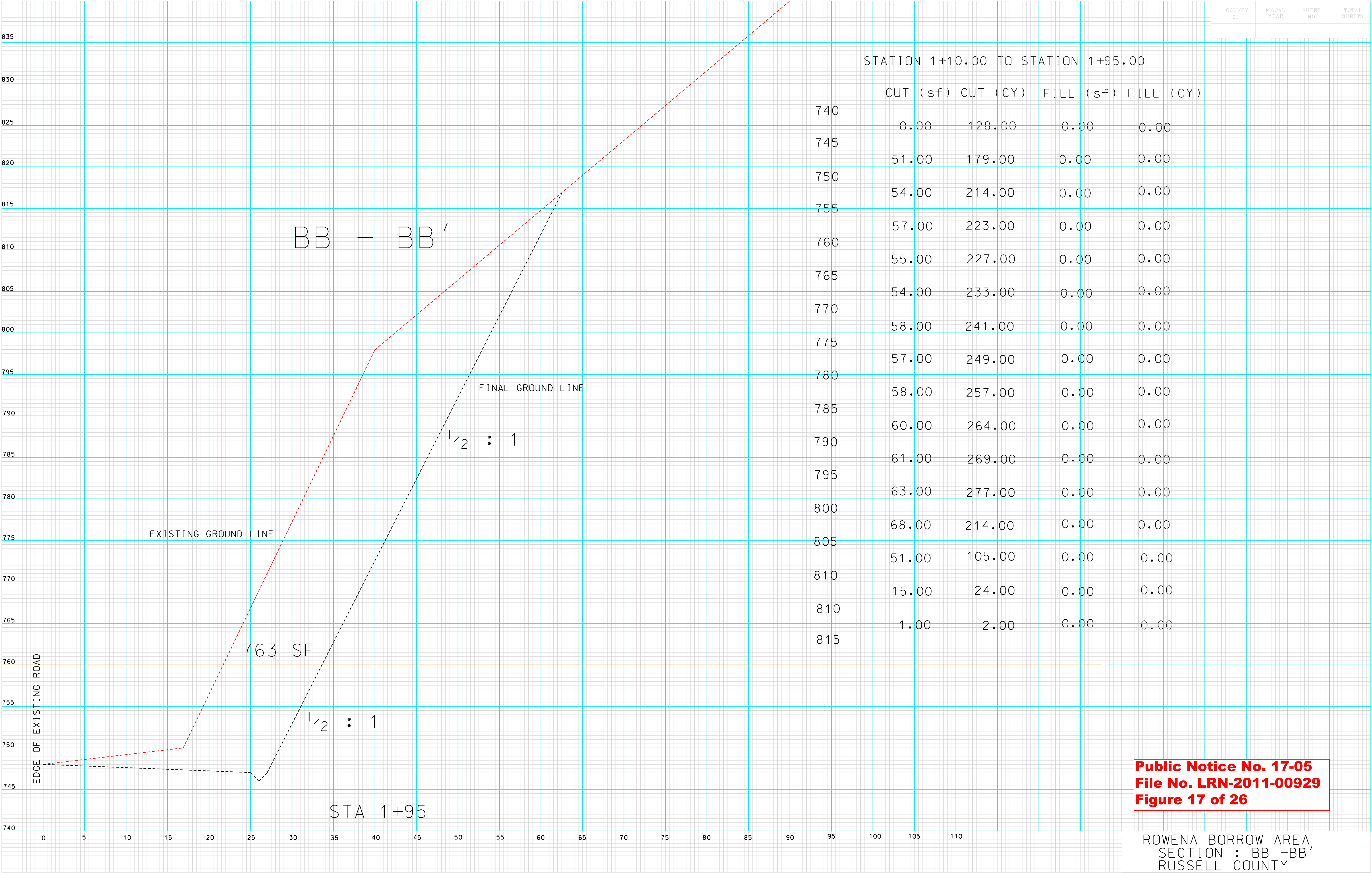
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

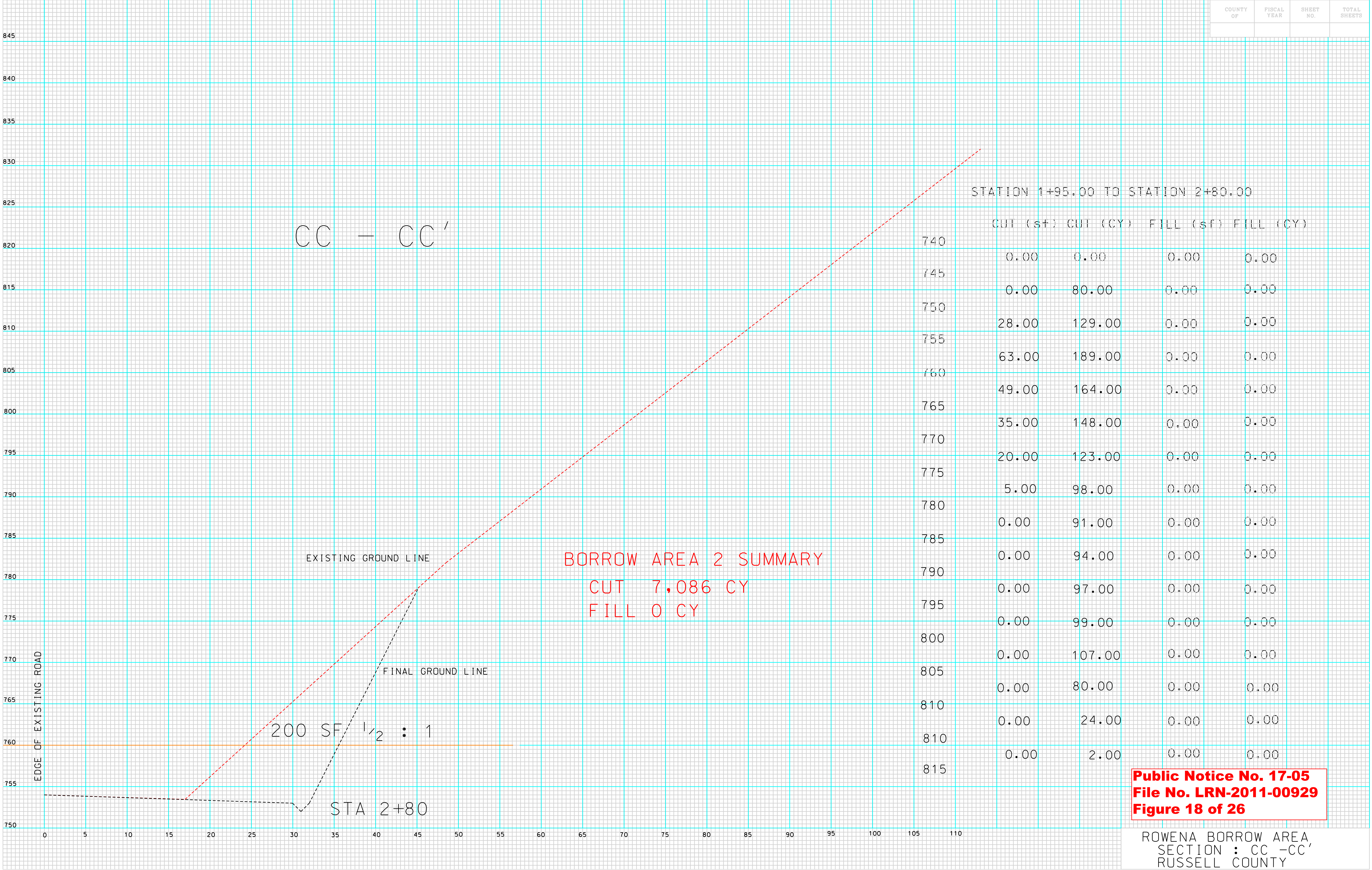


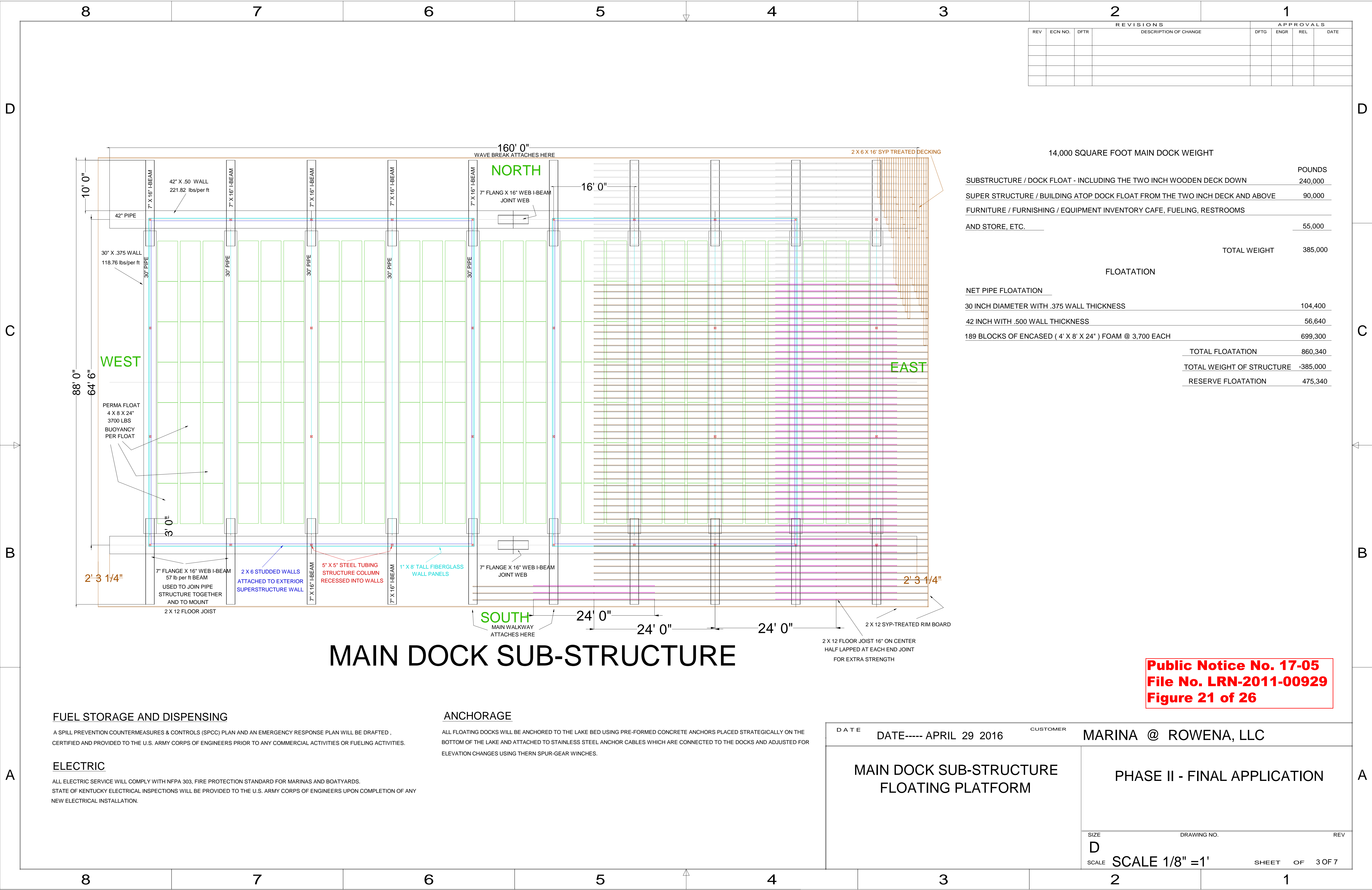
Public Notice No. 17-05
File No. LRN-2011-00929
Figure 15 of 26

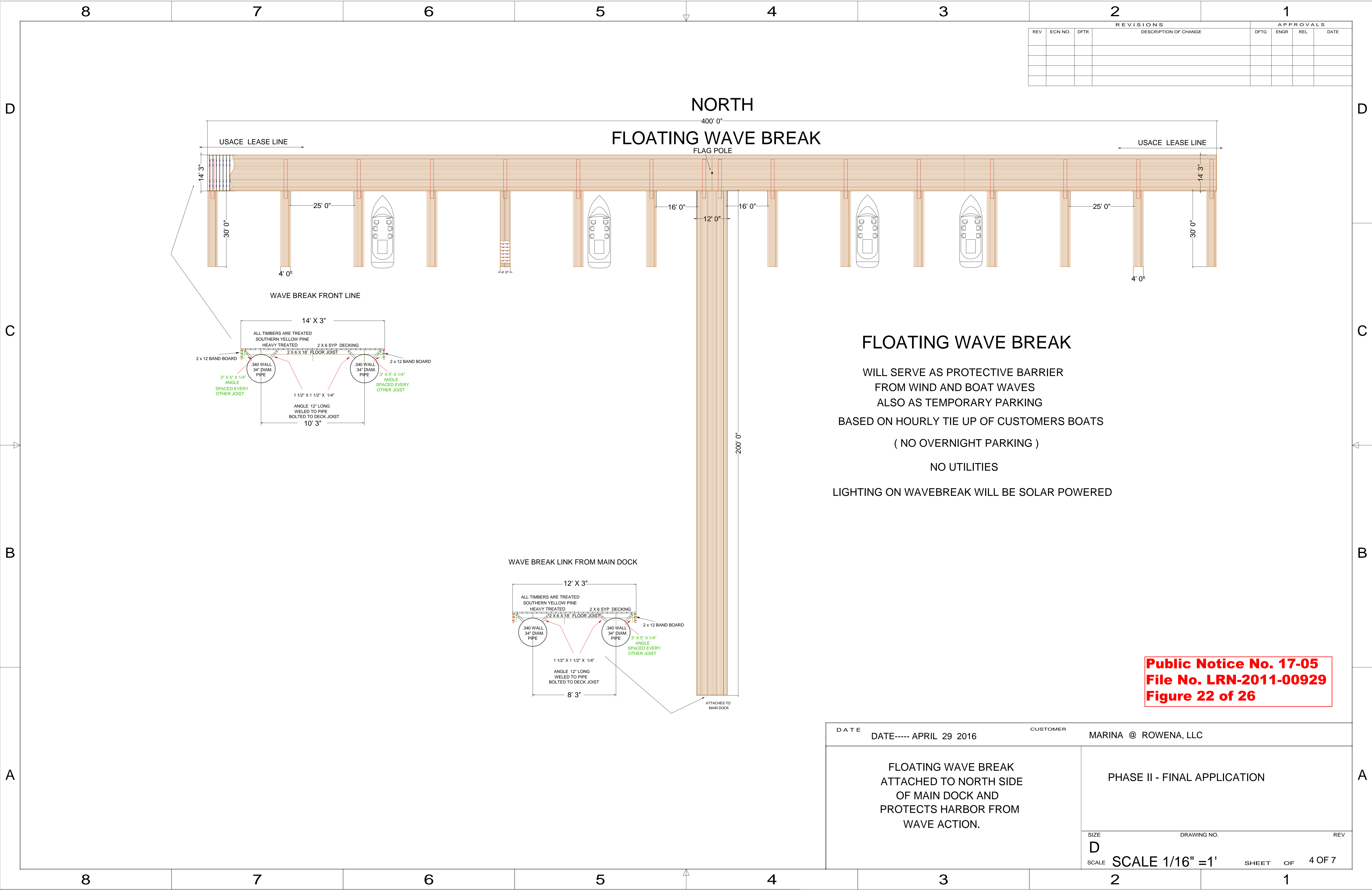
ROWENA
SECTION : H-H' FILL AREA 4
RUSSELL COUNTY









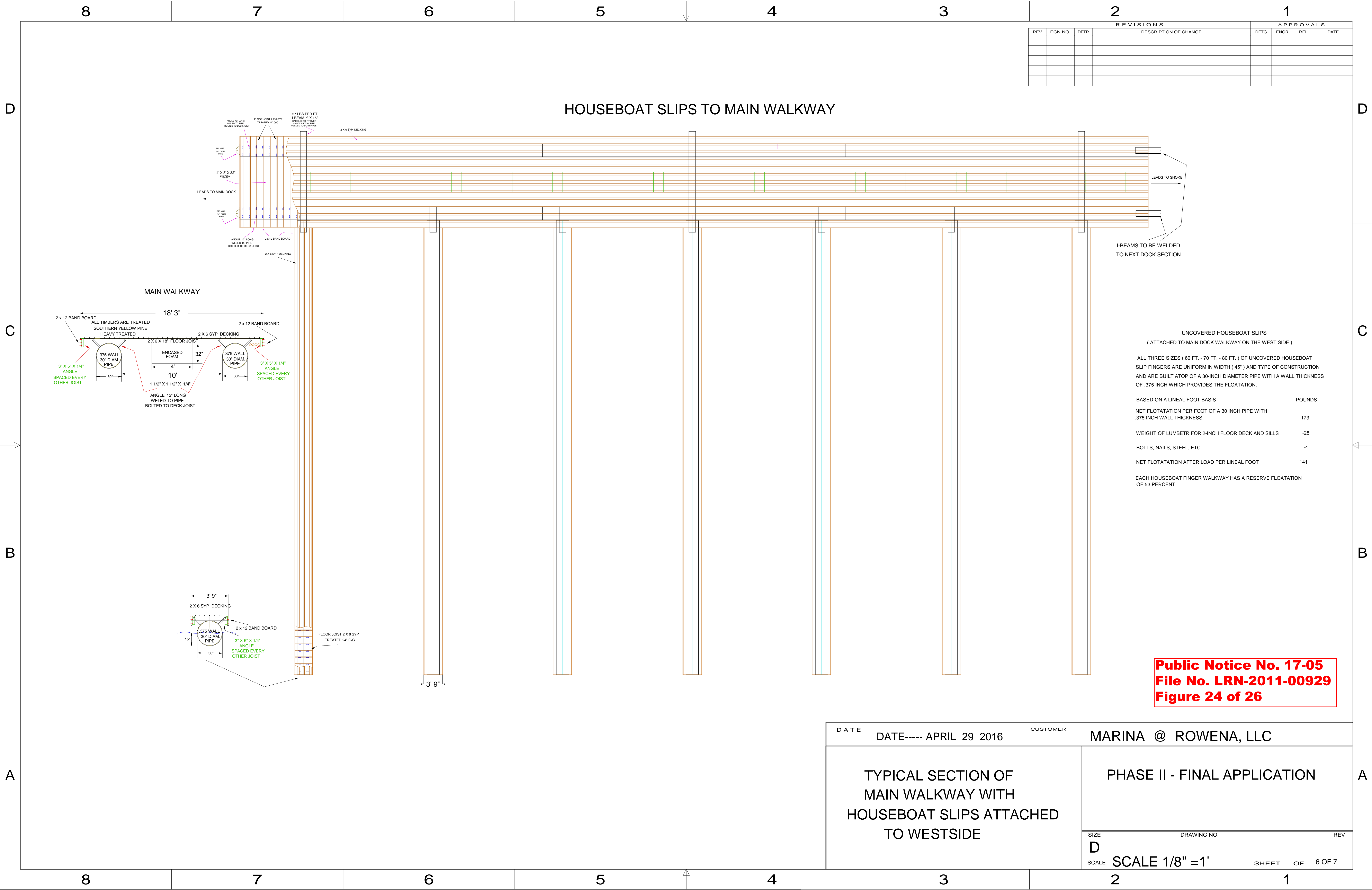


D



B








Public Notice No. 17-05
File No. LRN-2011-00929
Figure 26 of 26

Legend

 Disposal Site 2.00 +/- Acres

Rowena Disposal Site

11565 KY HWY 558
Albany, Kentucky 42602

Exhibit "A"

Google earth

© 2016 Google

McFalls-Spur-Rd

400 ft

N