

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

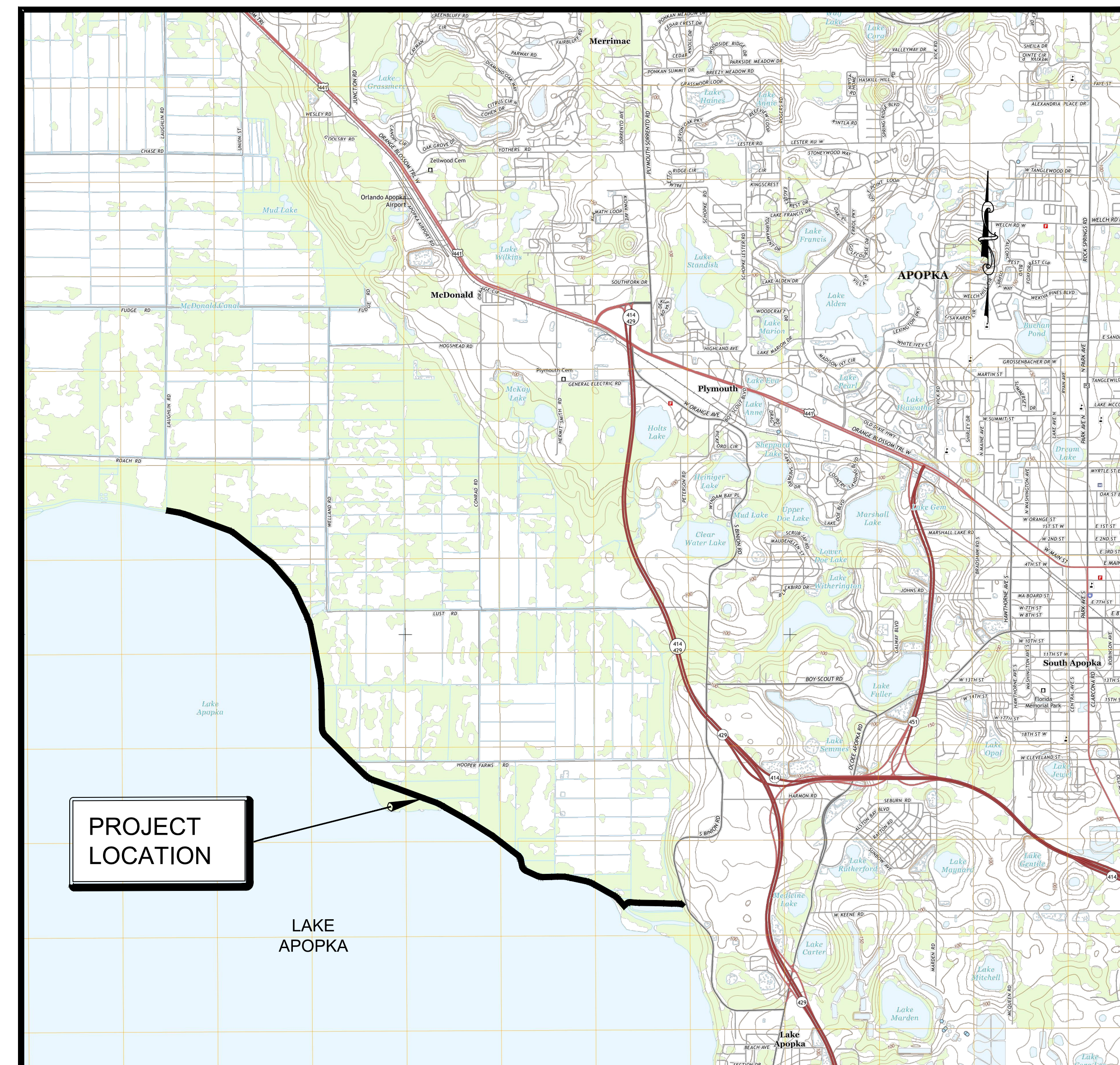
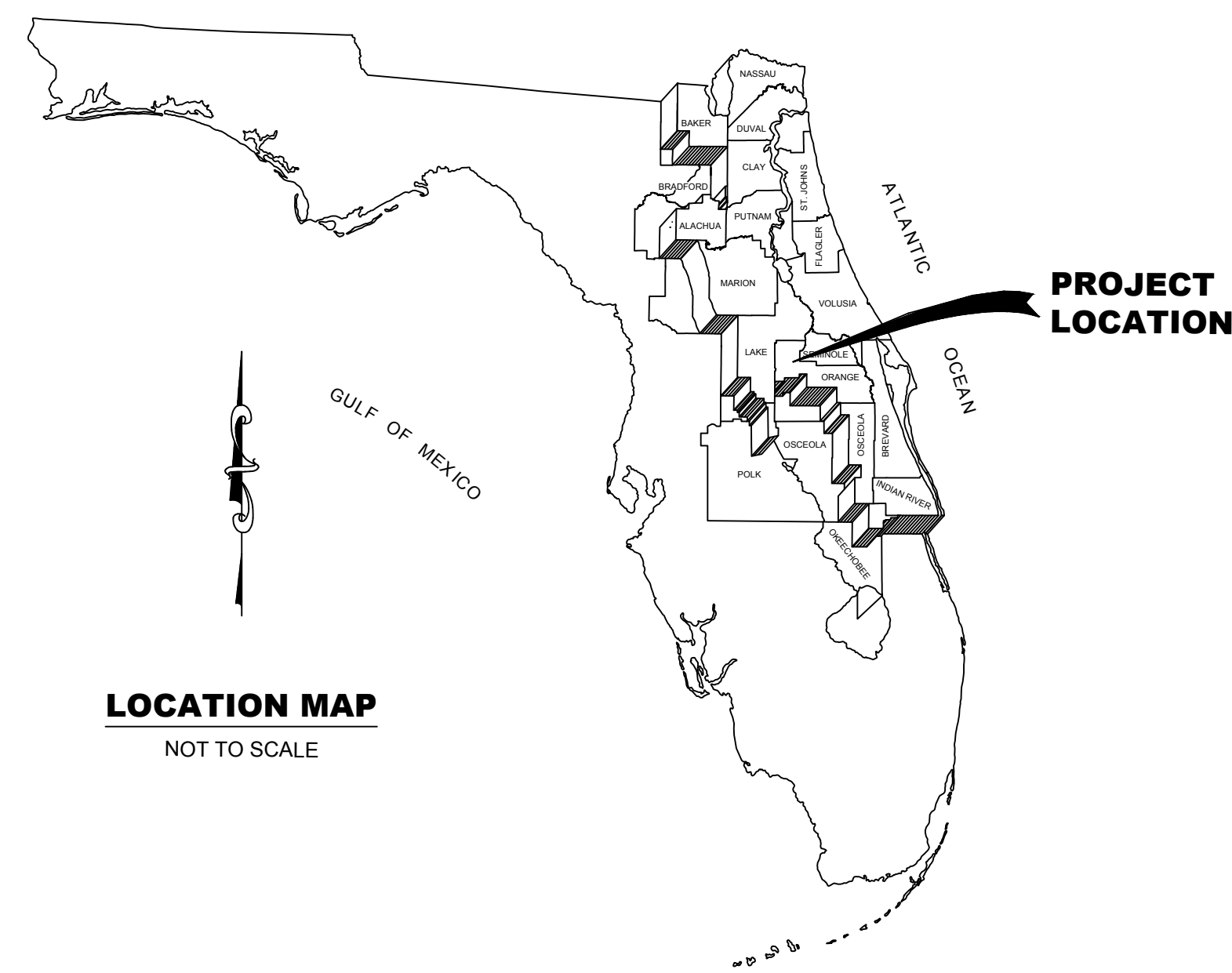
UPPER OCKLAWAHA RIVER BASIN

LAKE APOPKA LAKE LEVEL IMPROVEMENTS

ORANGE COUNTY, FLORIDA

NAVD 1988

ALL ELEVATIONS DEPICTED HEREIN
REFERENCE NAVD 1988 UNLESS
OTHERWISE NOTED. THE CONVERSION
FACTOR TO NGVD 1929 IS +1.47.



INDEX OF PLANS

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ENGINEER'S NOTES:

- These drawings are prepared for the sole and exclusive use of the St. Johns River Water Management District and shall not be relied upon by any other entity or individual.
- Reproductions of these drawings are "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED ENGINEER."

ALWAYS CALL
BEFORE YOU
DIG



VICINITY MAP

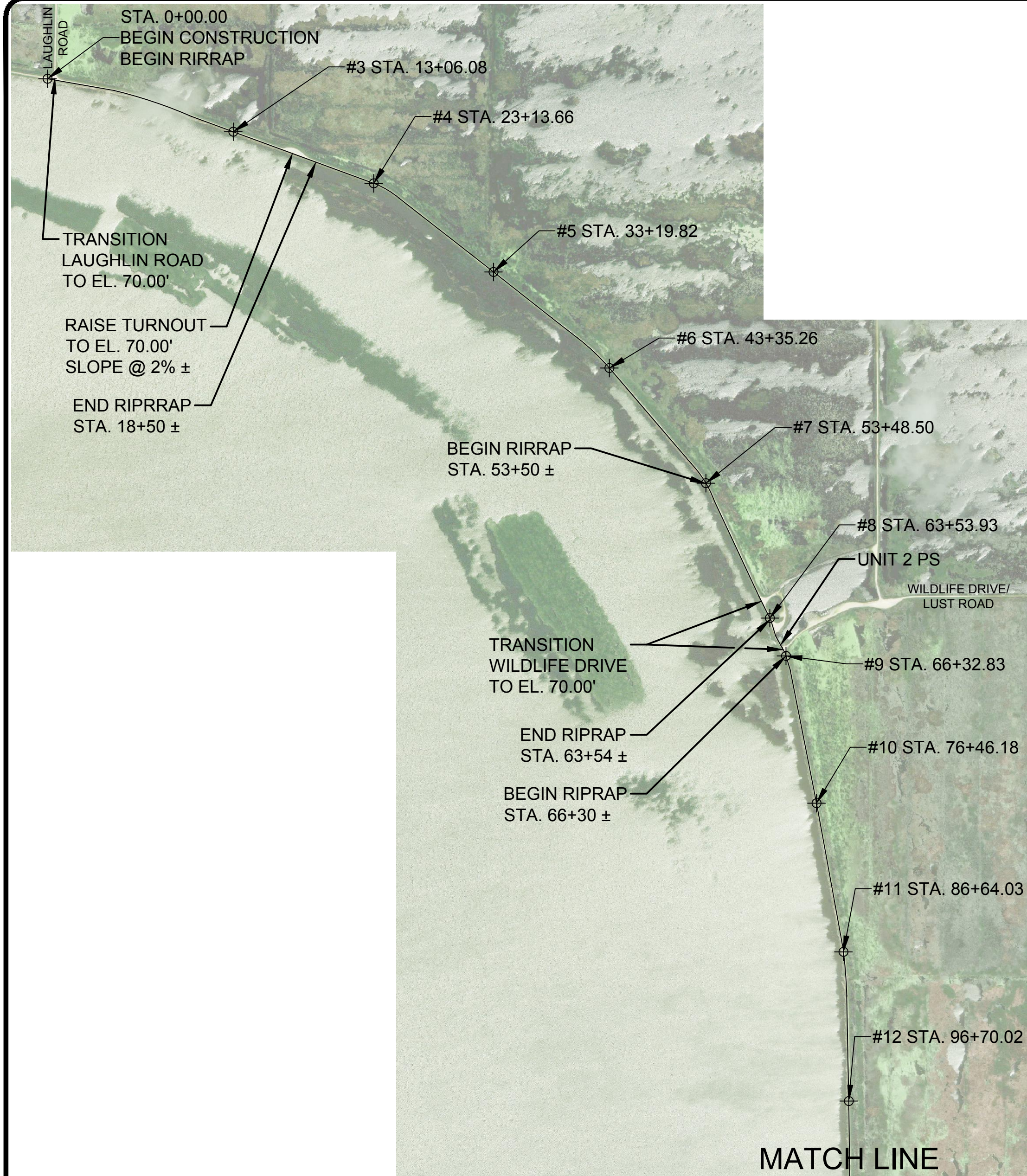
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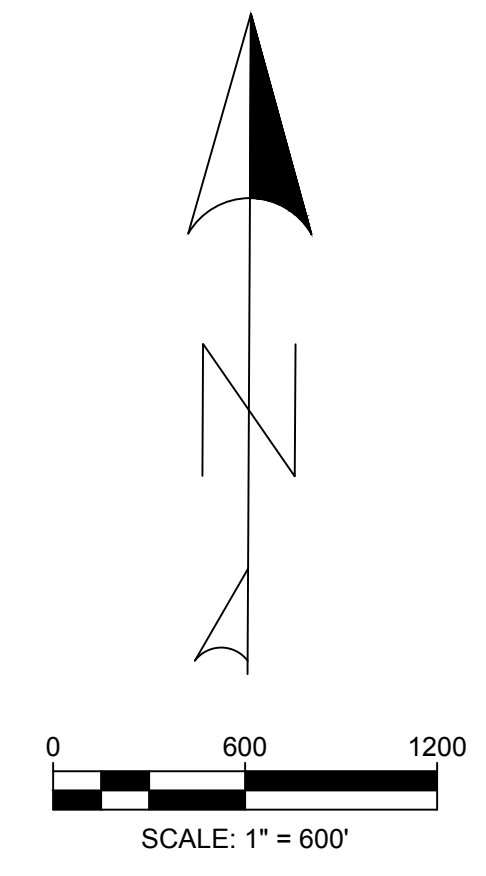
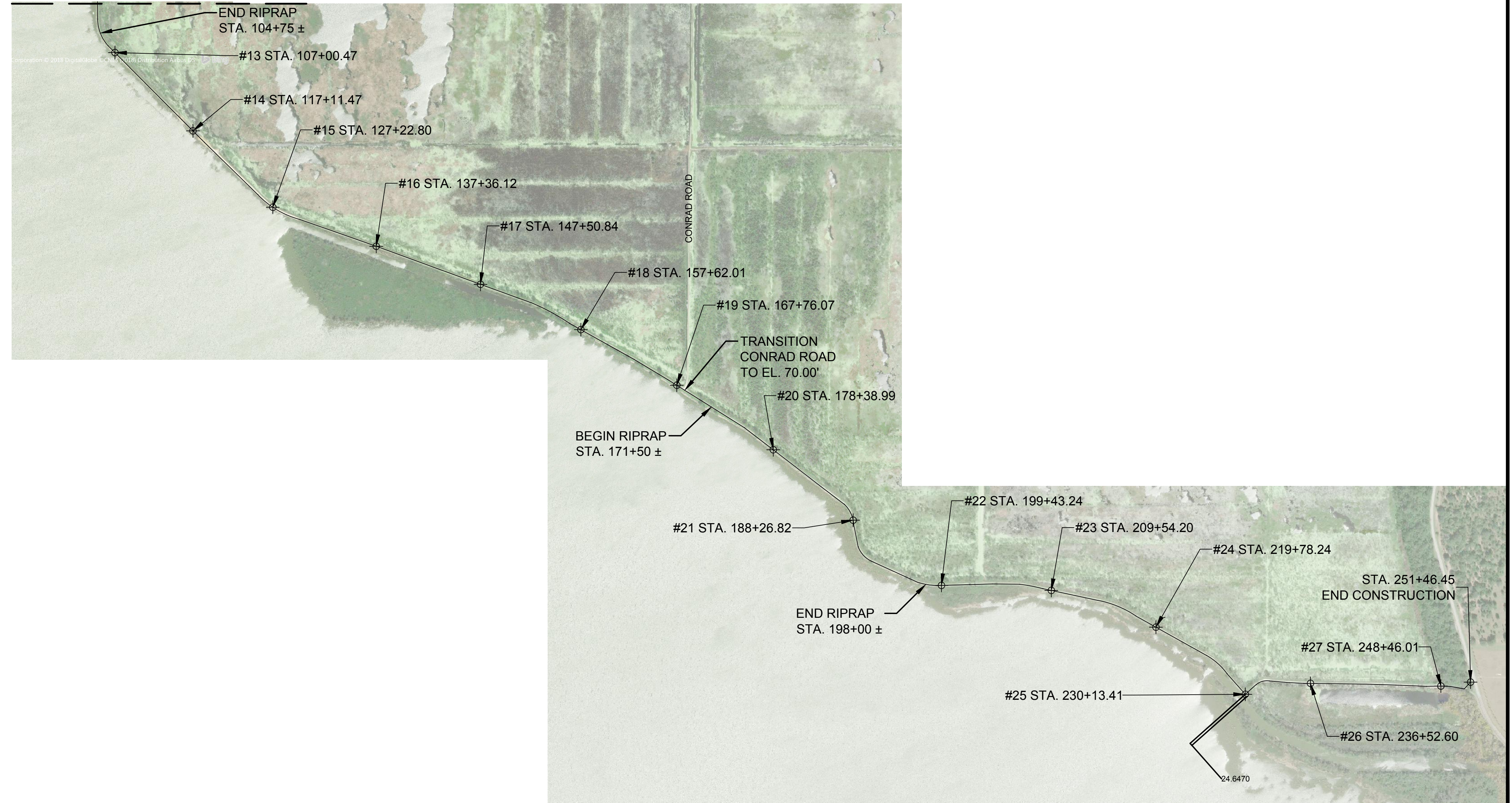
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P.E. NUMBER: _____	SHEET: _____
DATE: DECEMBER 6, 2018	C1

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MATCH LINE



- NOTES:**
1. ALL ELEVATIONS SHOWN HEREON ARE REFERENCE TO NAVD(88)
 2. ALL COORDINATES SHOWN HEREON ARE REFERENCE TO HPGN AND, PROJECTED TO FLORIDA EAST.
 3. THIS SKETCH MAY HAVE BEEN SHRUNKEN OR ENLARGED FROM ITS ORIGINAL AND MAY NOT BE TO SCALE.

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NO.	REVISION	BY	DATE	APPROVED	DATE

UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA LAKE LEVEE IMPROVEMENTS
ORANGE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

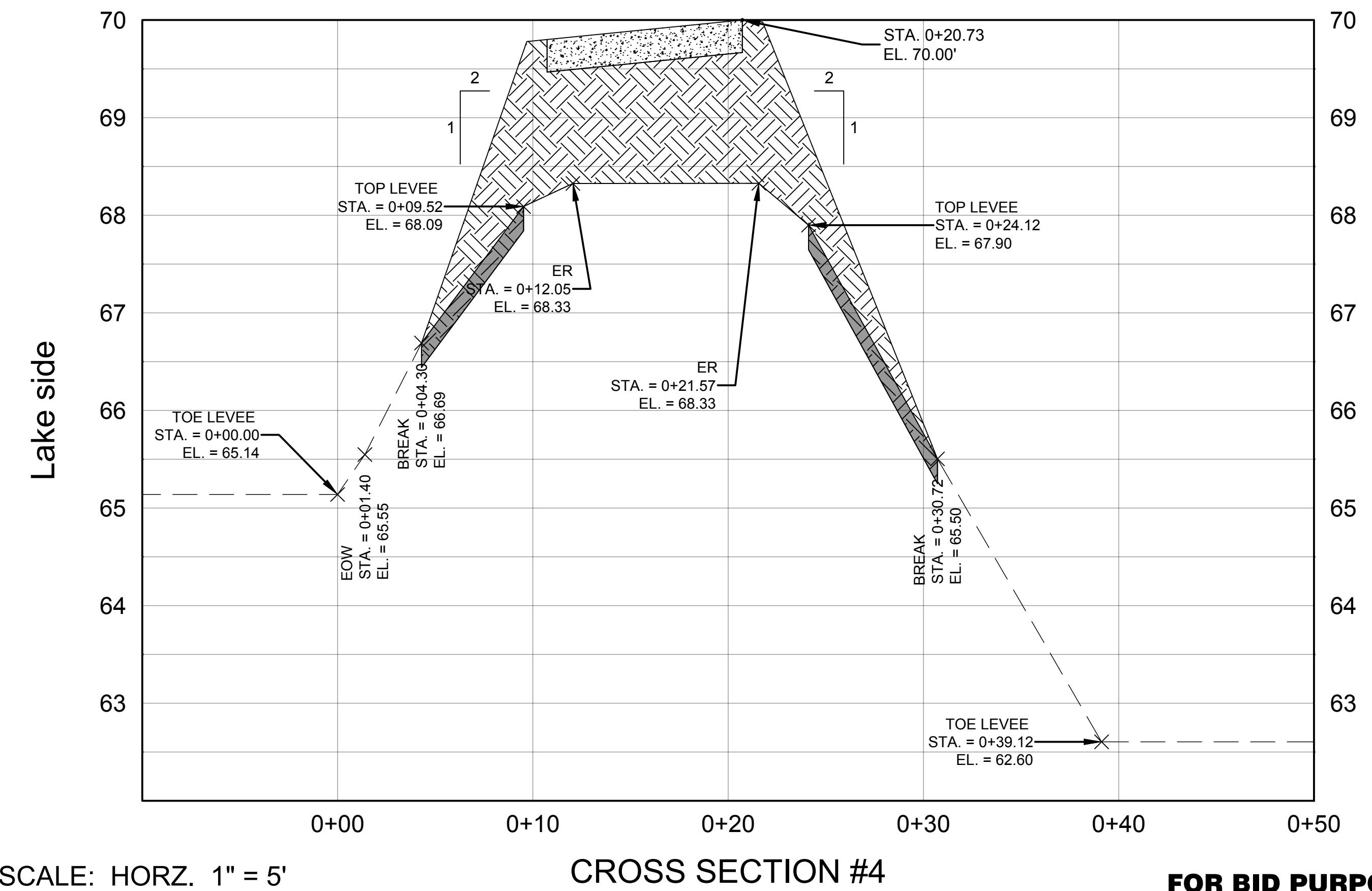
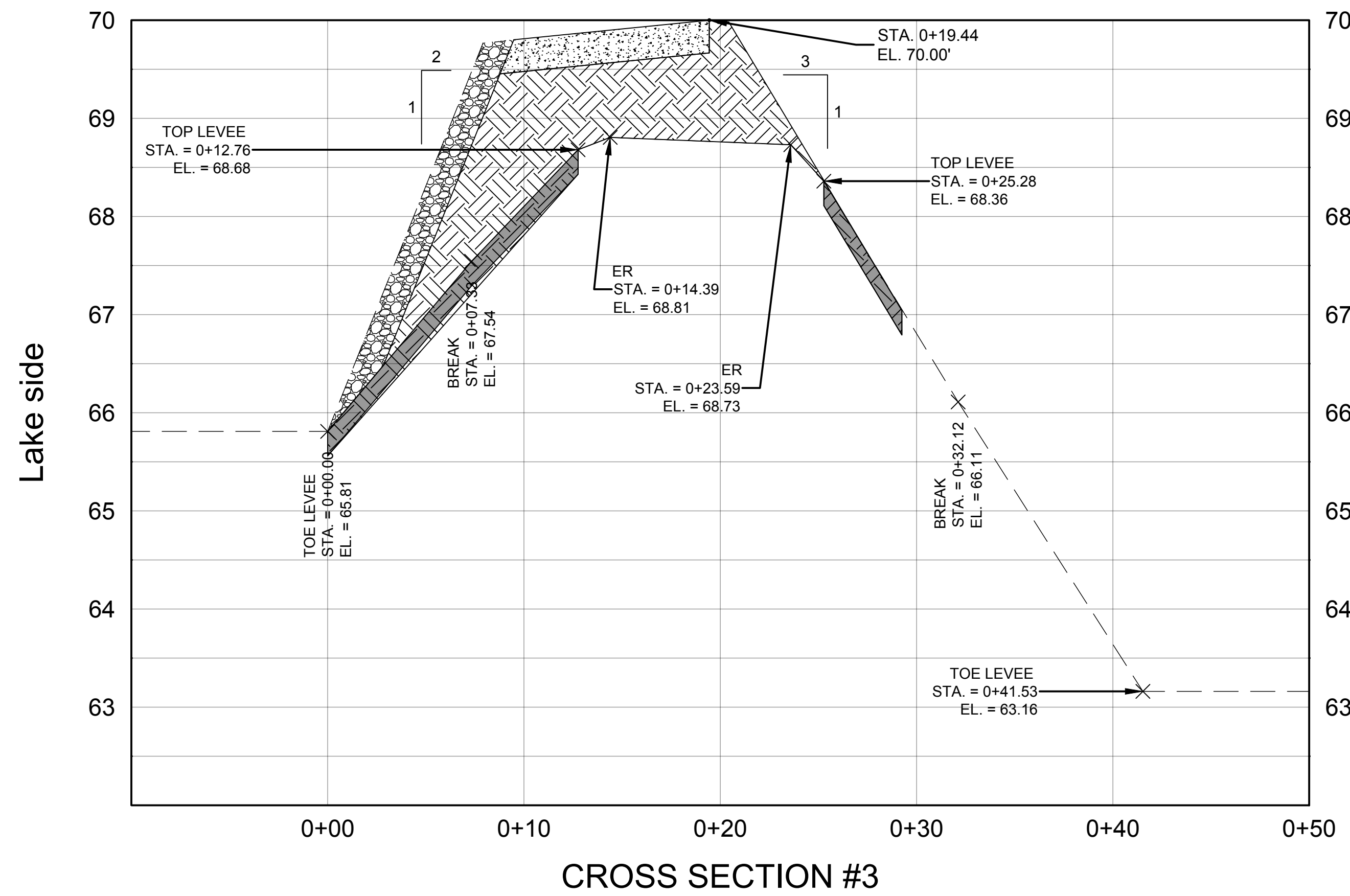
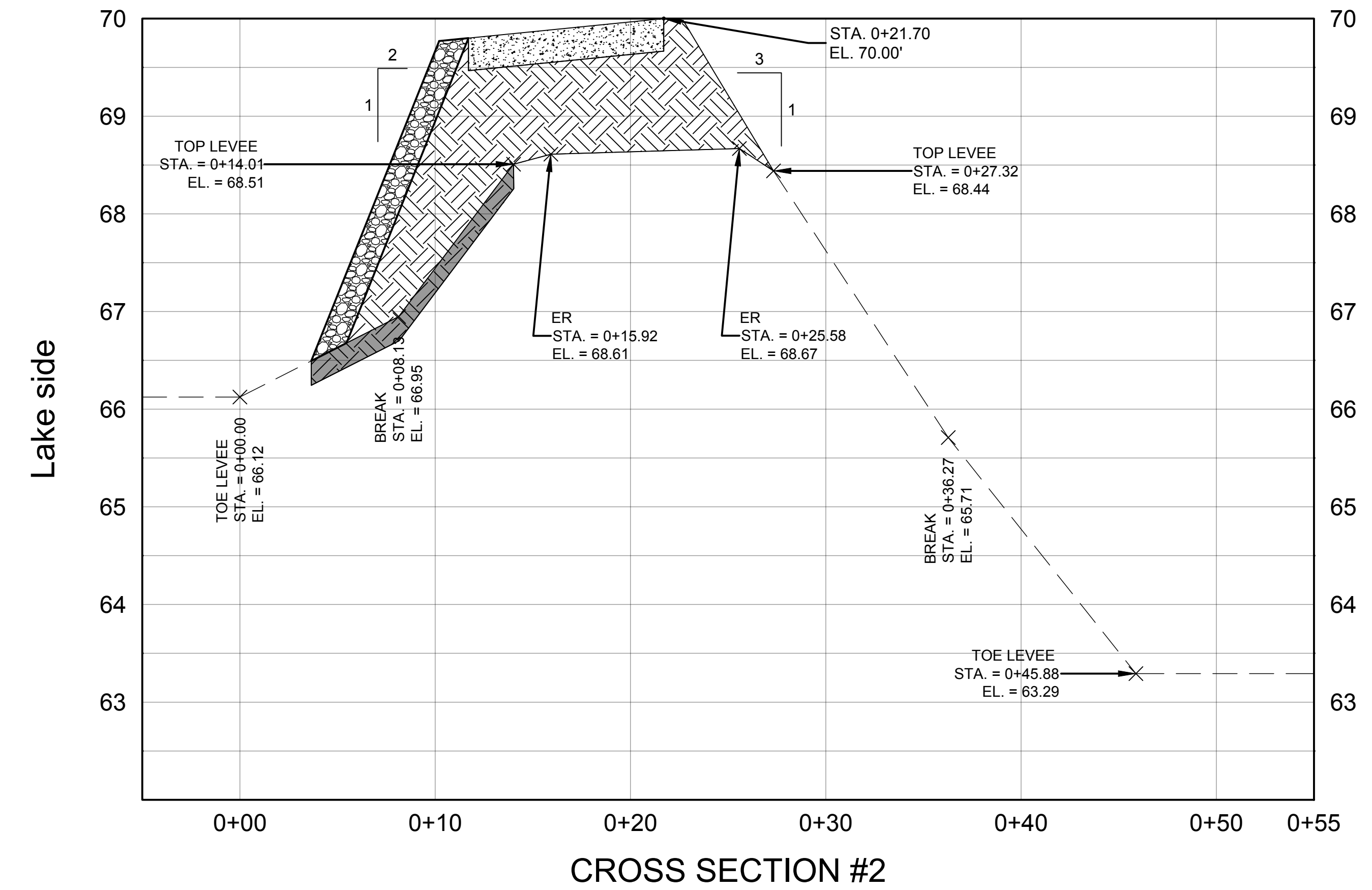
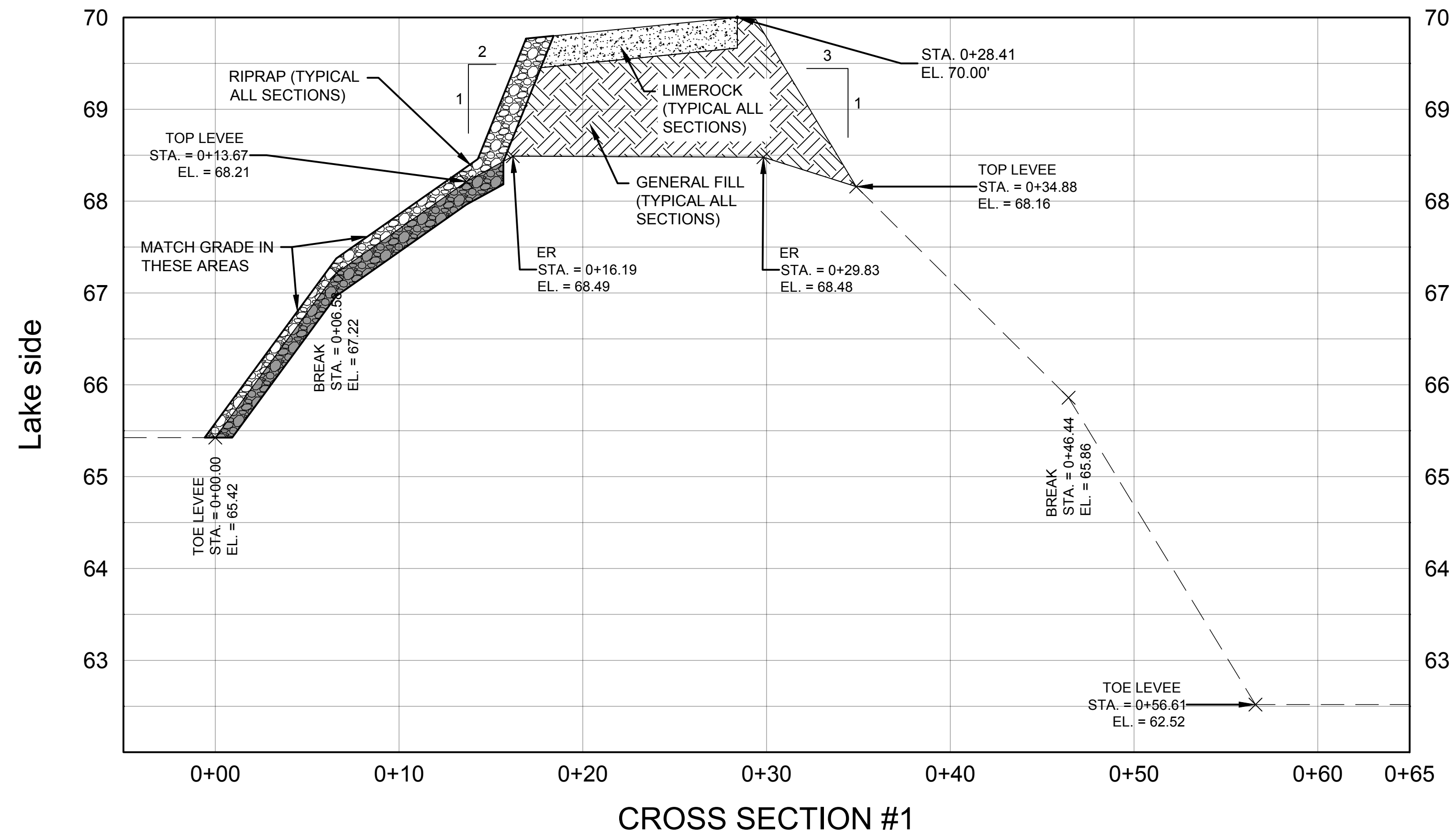
DRAWN: N.J.G. DATE: DECEMBER 6, 2018 REVIEWER: D.R.W.

SCALE: 1" = 600' DESIGNER: E.C.B. SECTION CHIEF: W.R.C.

OVERALL SITE PLAN

CERTIFICATION:
P.E. NUMBER: _____
DATE: DECEMBER 6, 2018

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CZLALLOSPN.dwg
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C2



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VERT. 1" = 1'

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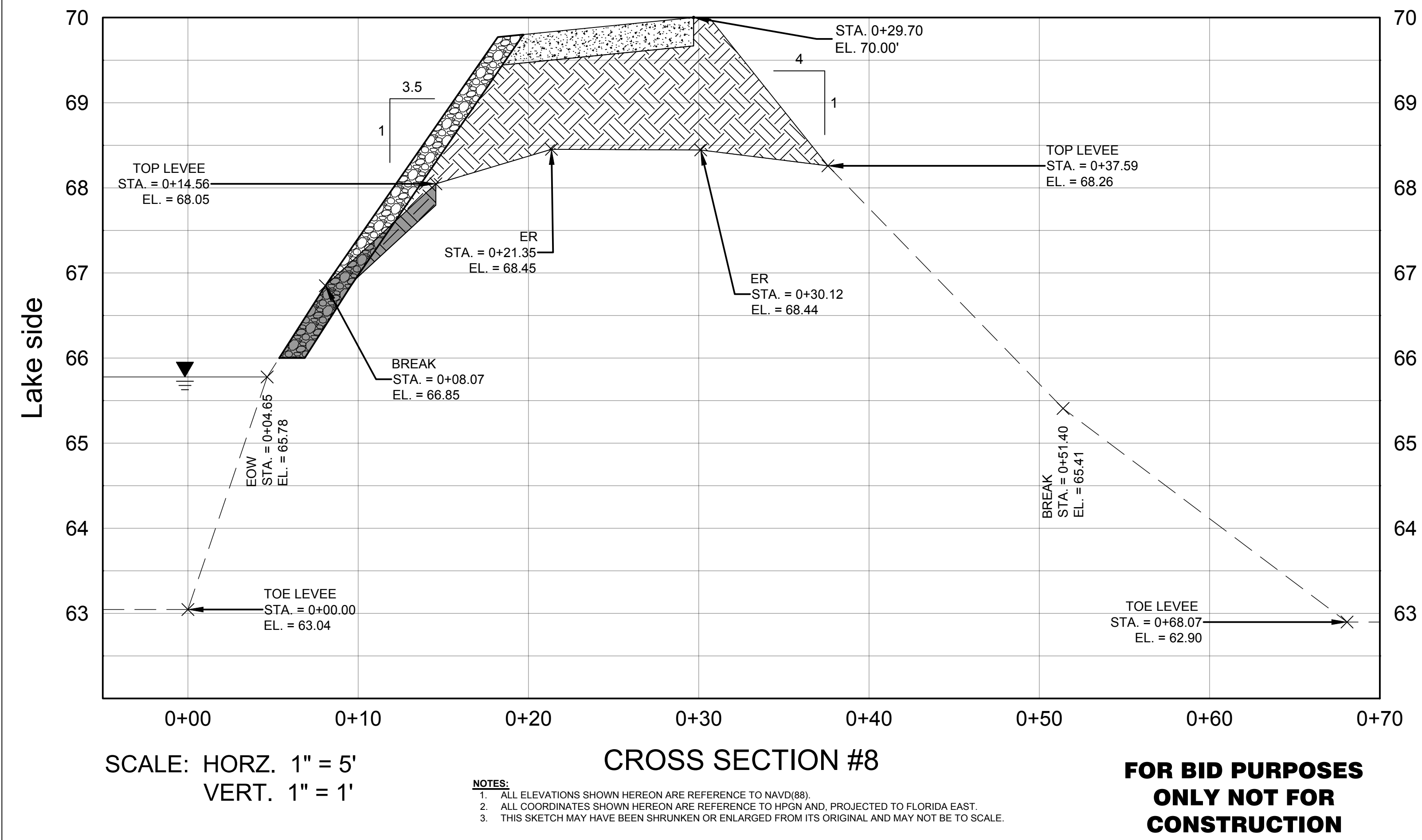
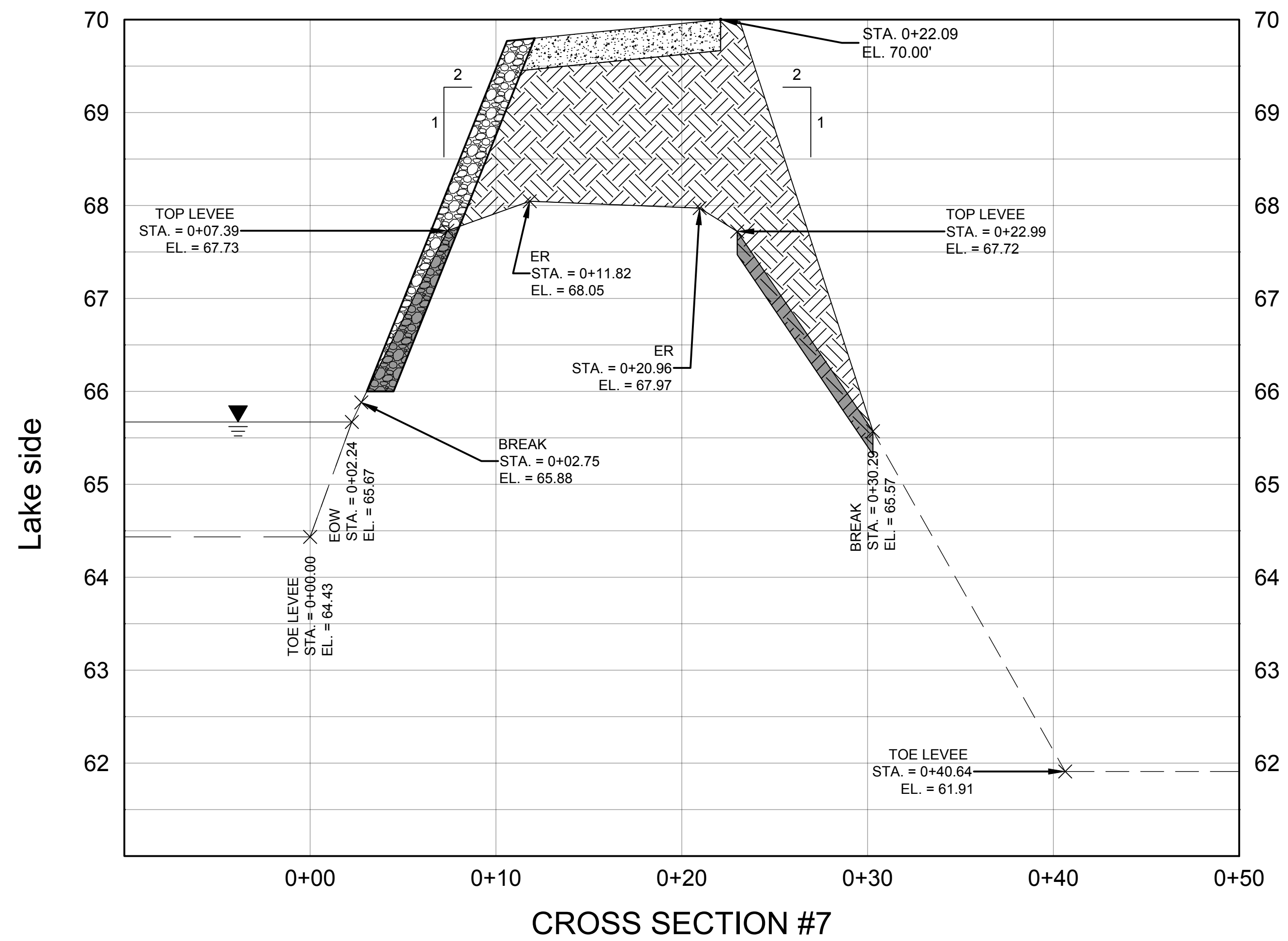
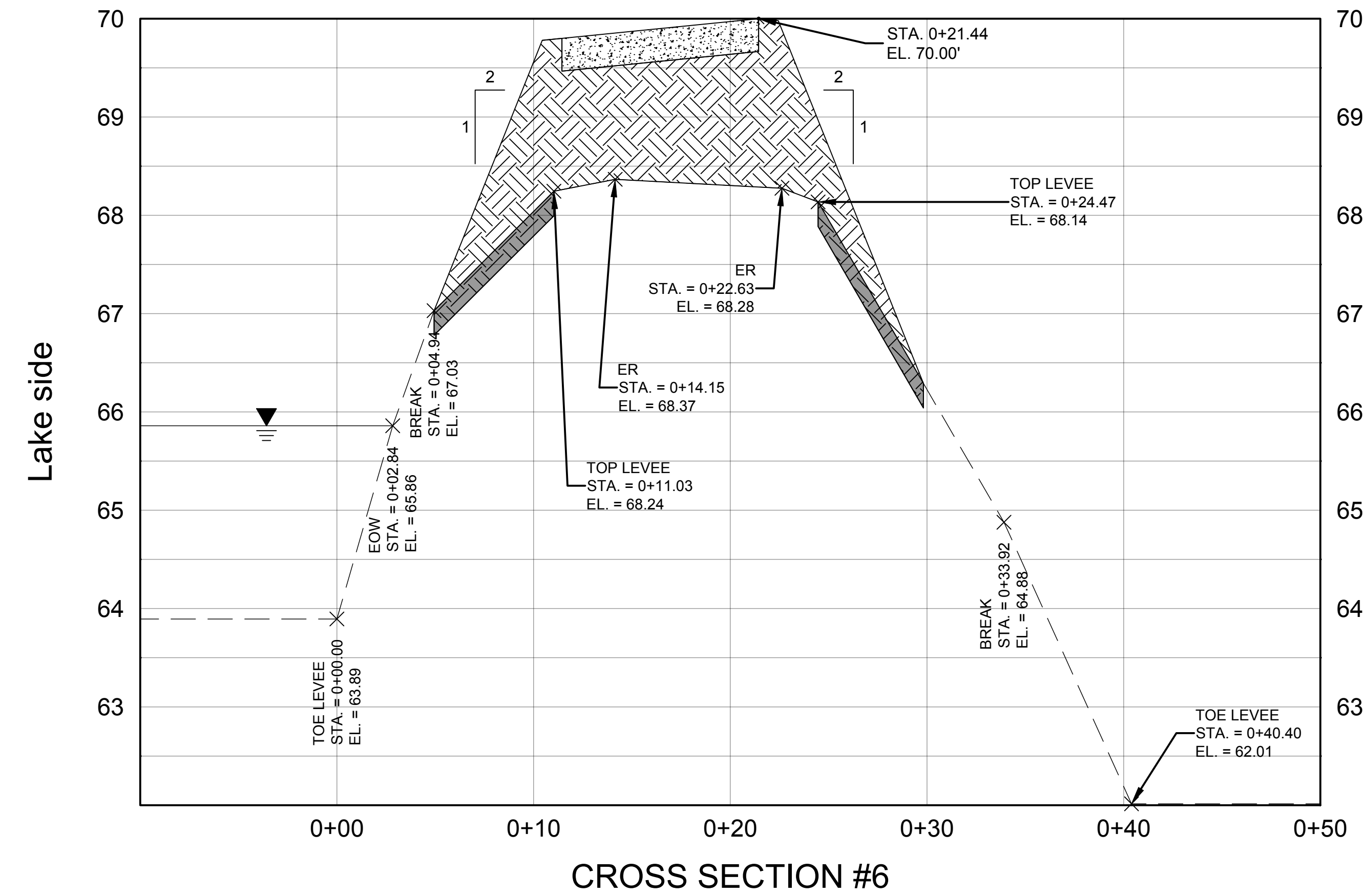
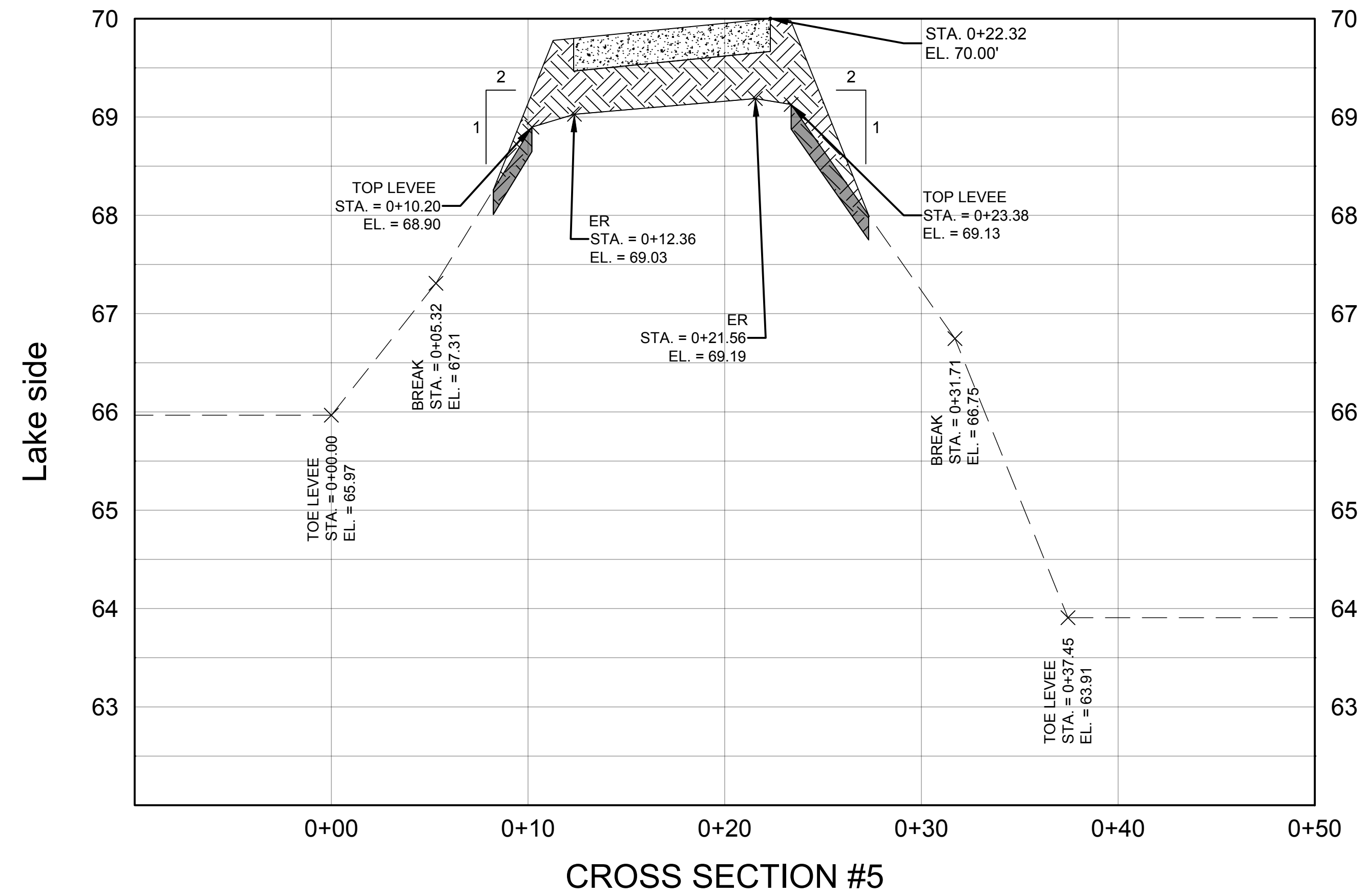
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CROSS SECTIONS 1 - 4

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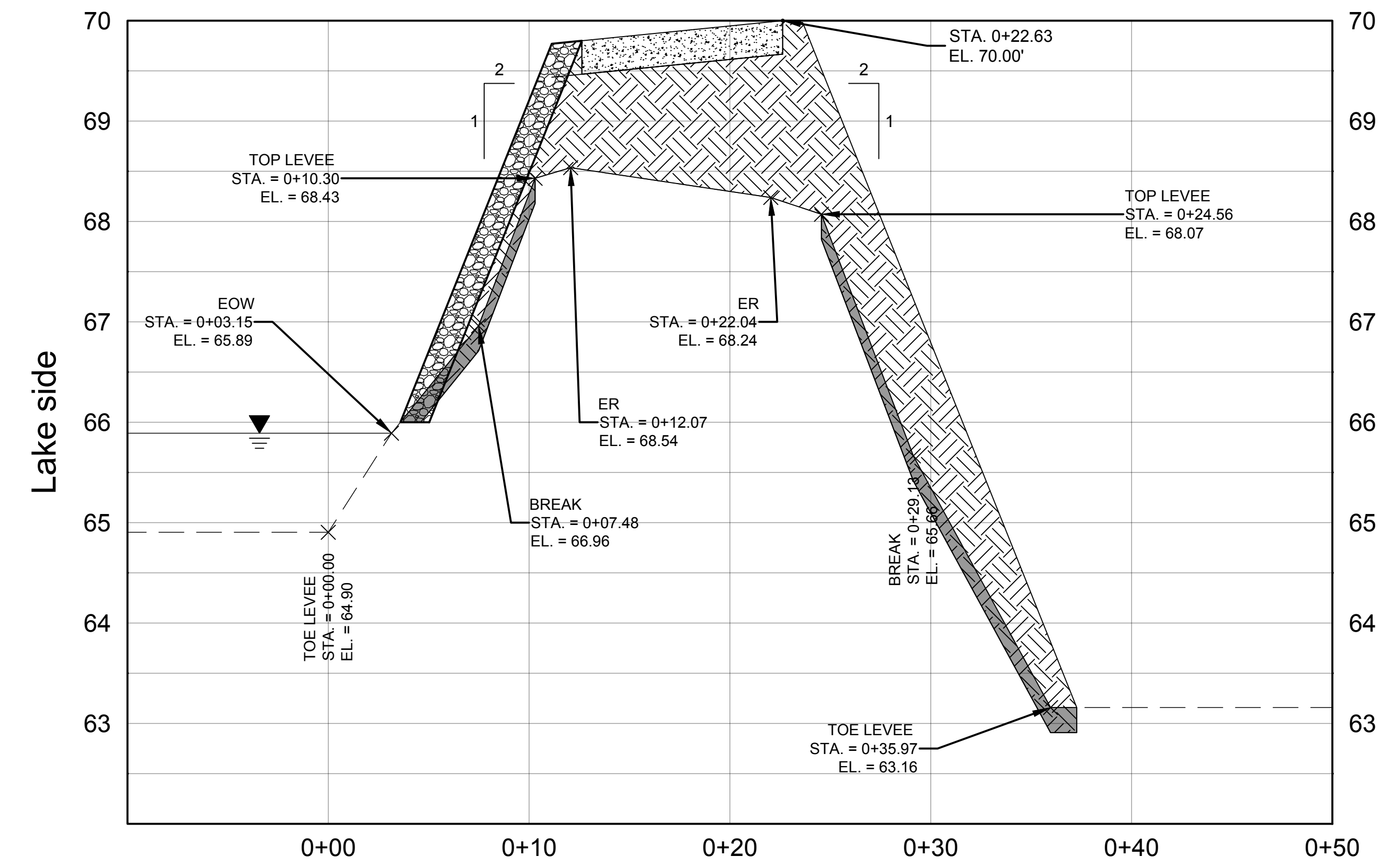
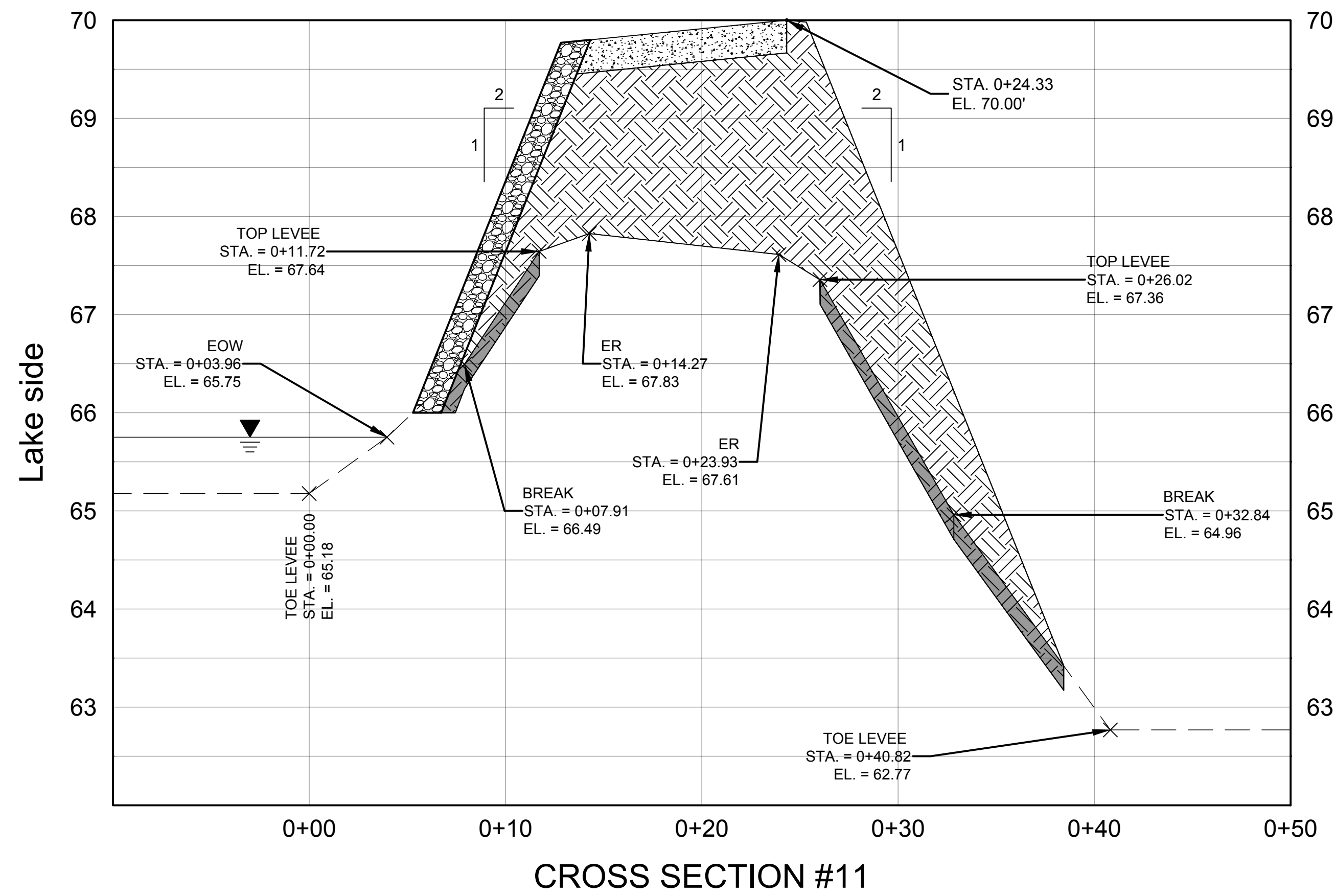
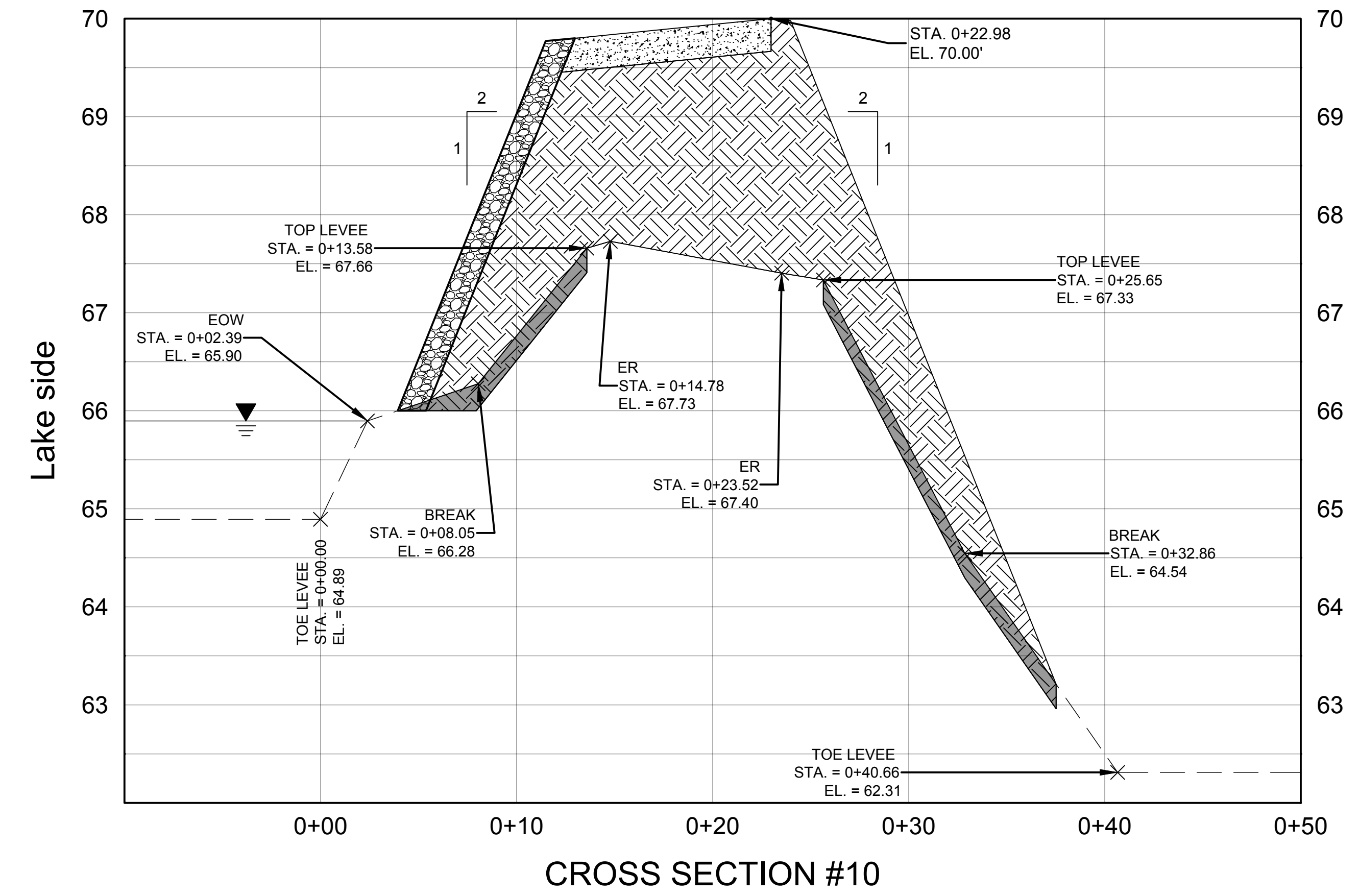
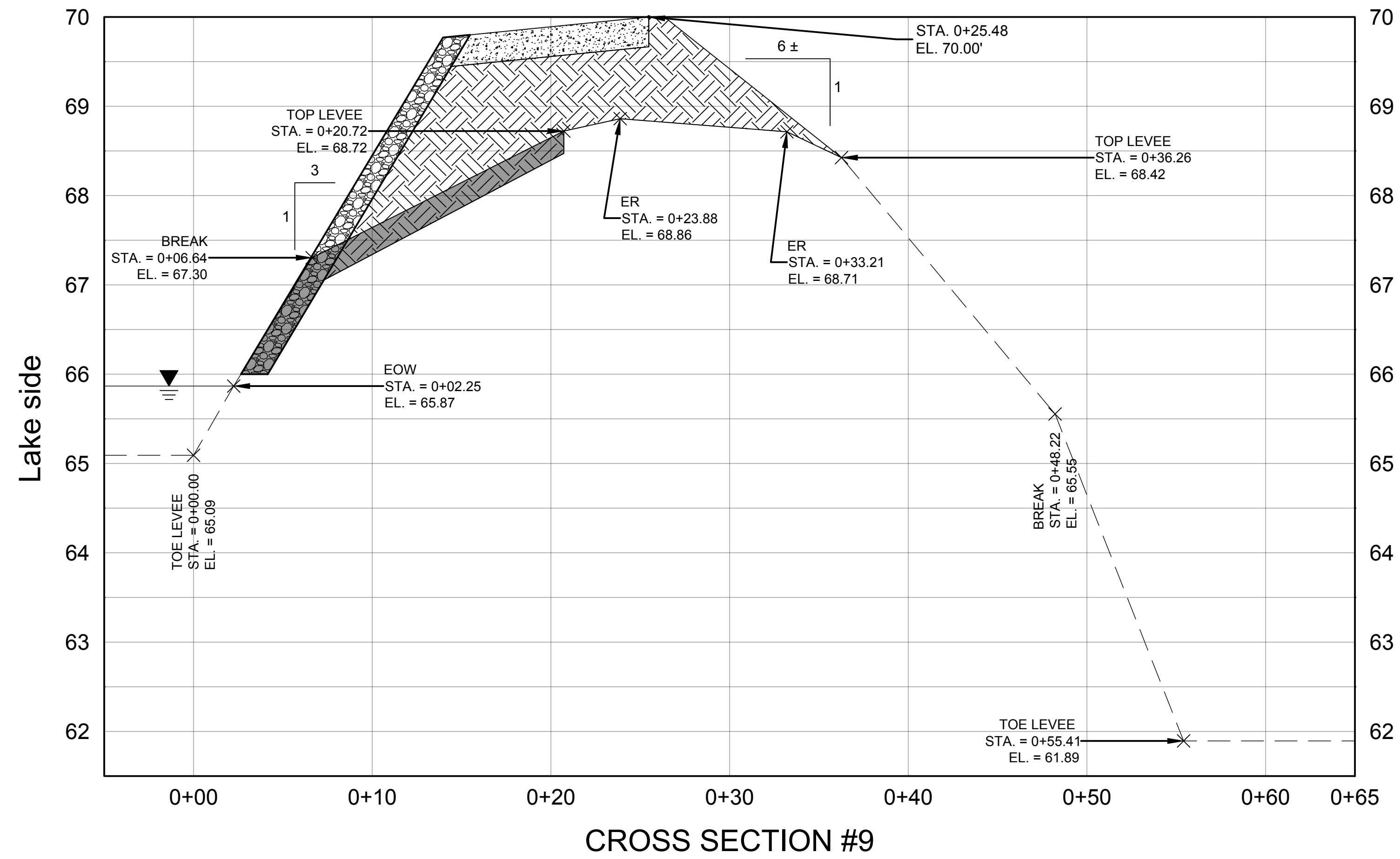
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CROSS SECTIONS 5 - 8

CERTIFICATION:
P.E. NUMBER:
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FILE NAME:
CZLALLOSPN.dwg
PROJECT NO.:
SHEET:
C4



SCALE: HORZ. 1" = 5'
VERT. 1" = 1'

NOTES:
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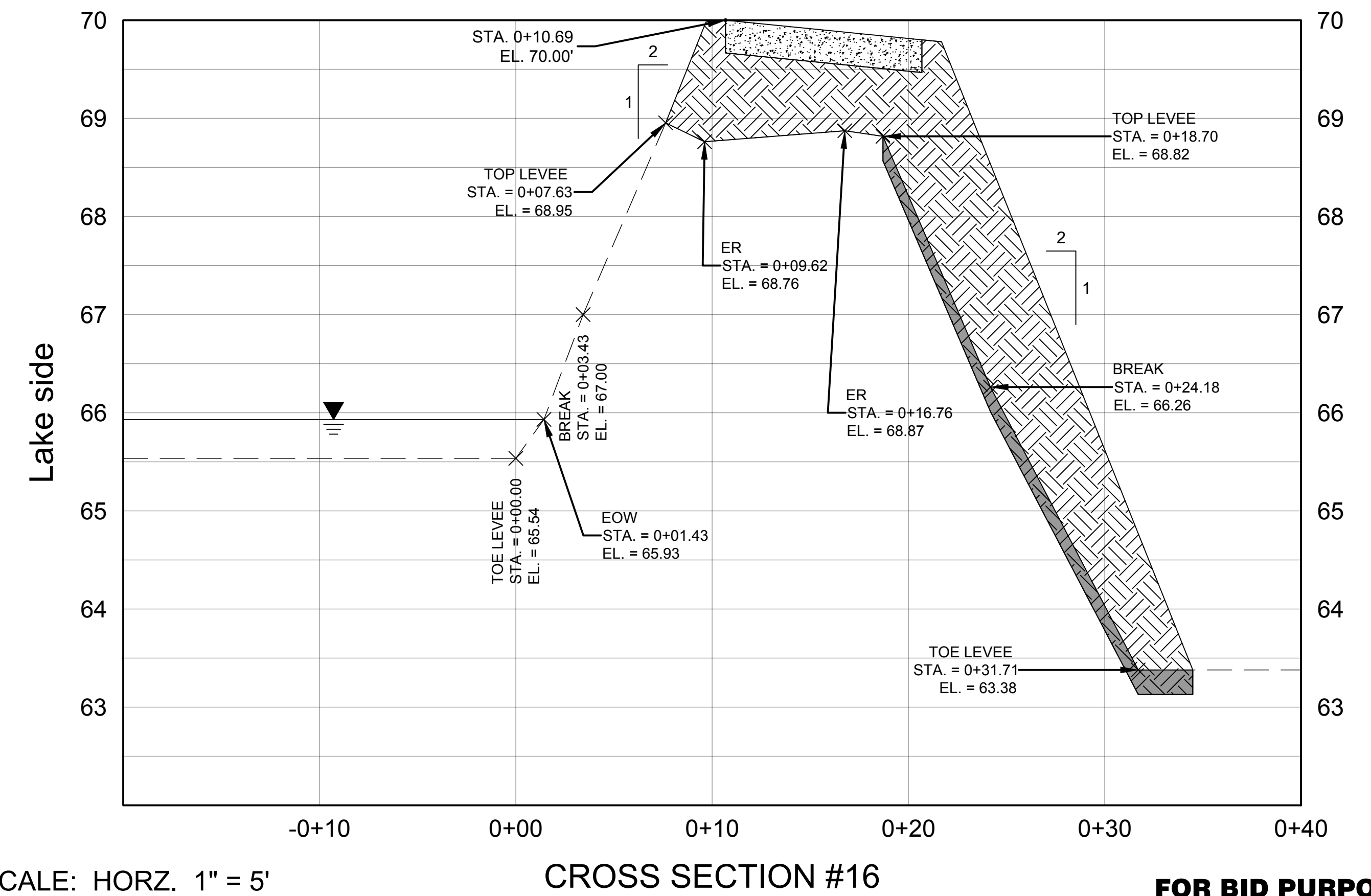
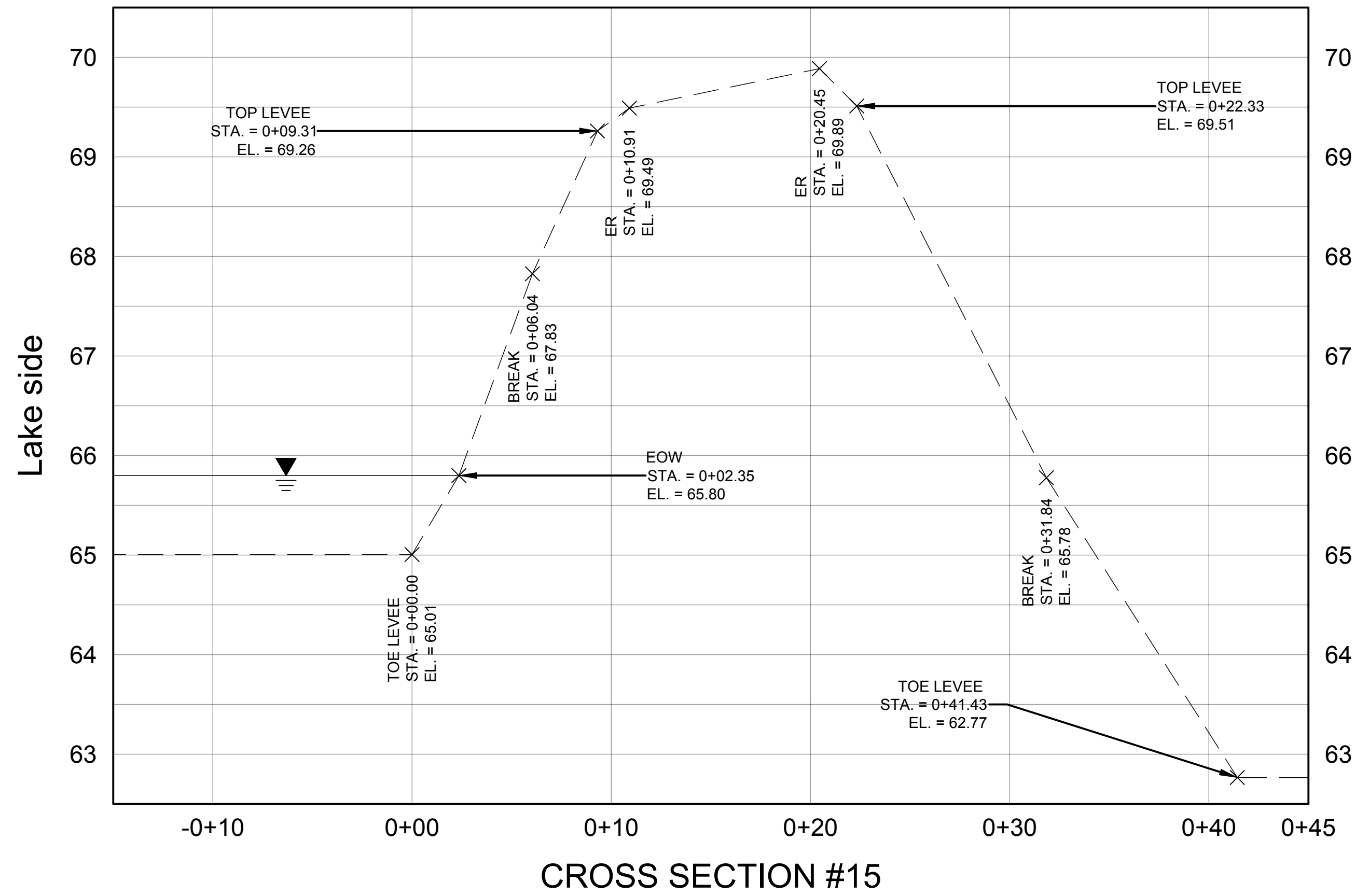
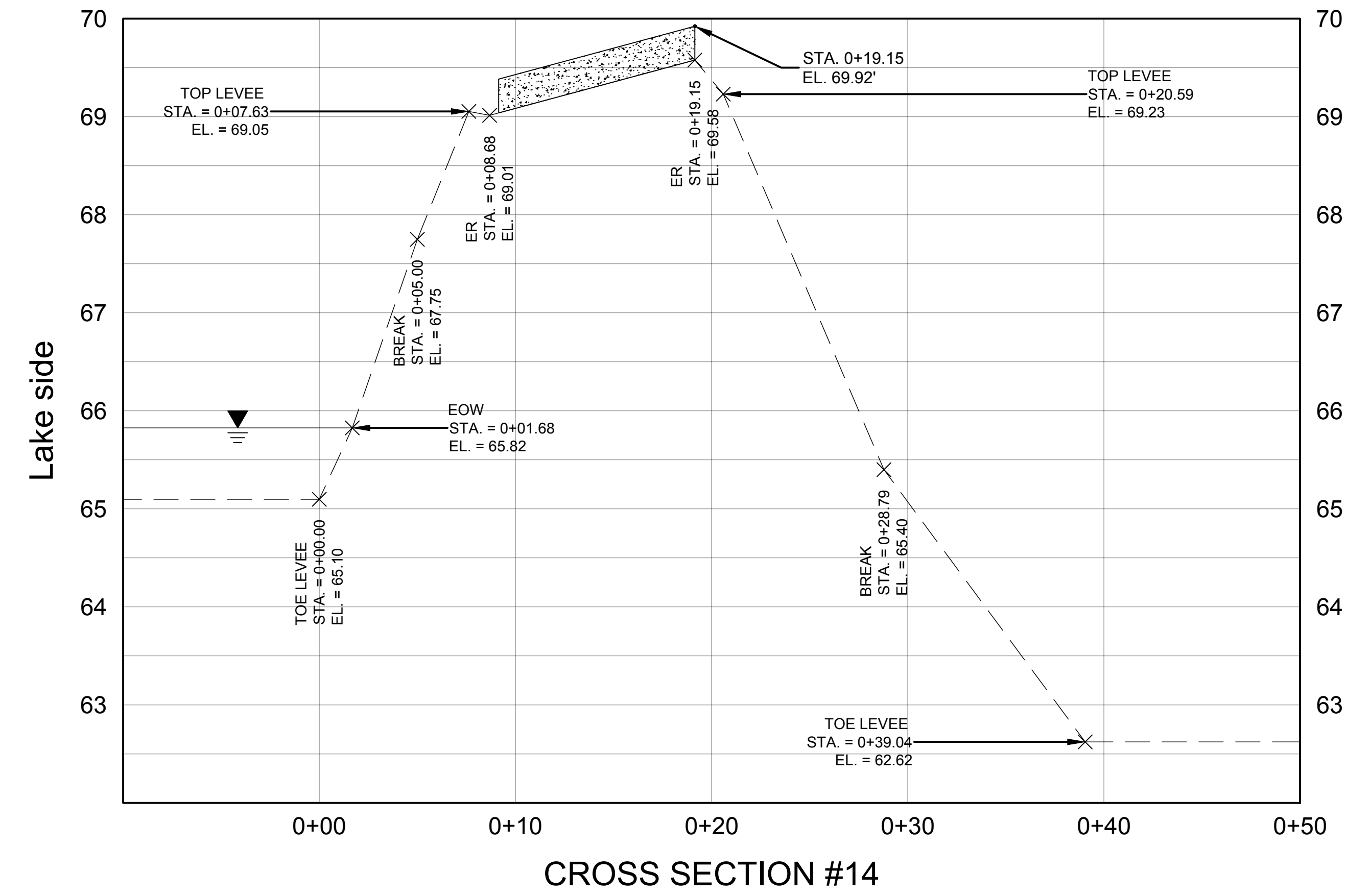
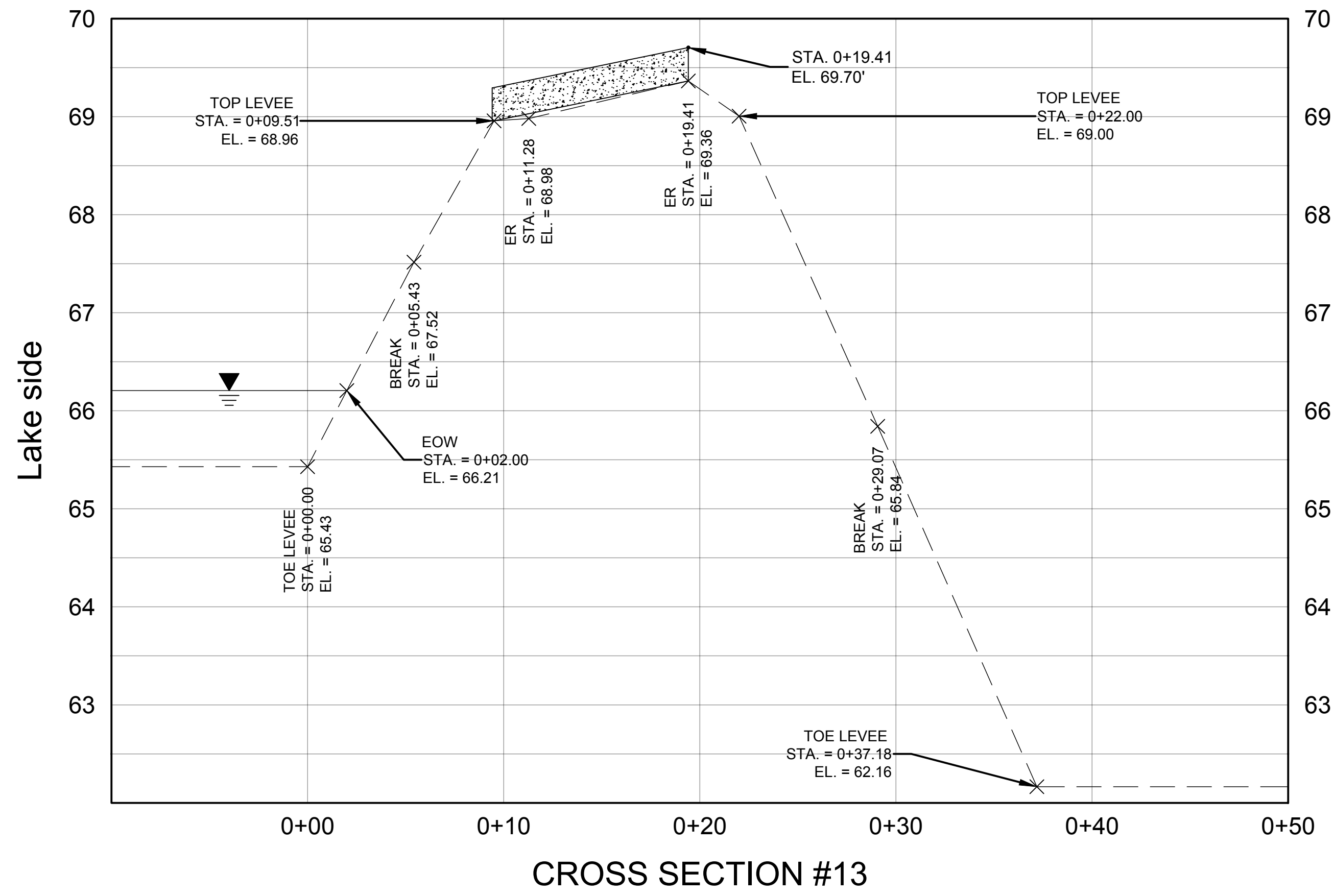
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CROSS SECTIONS 9 - 12

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DATE: DECEMBER 6, 2018

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CZLALLOSPN.dwg
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C5



SCALE: HORZ. 1" = 5'
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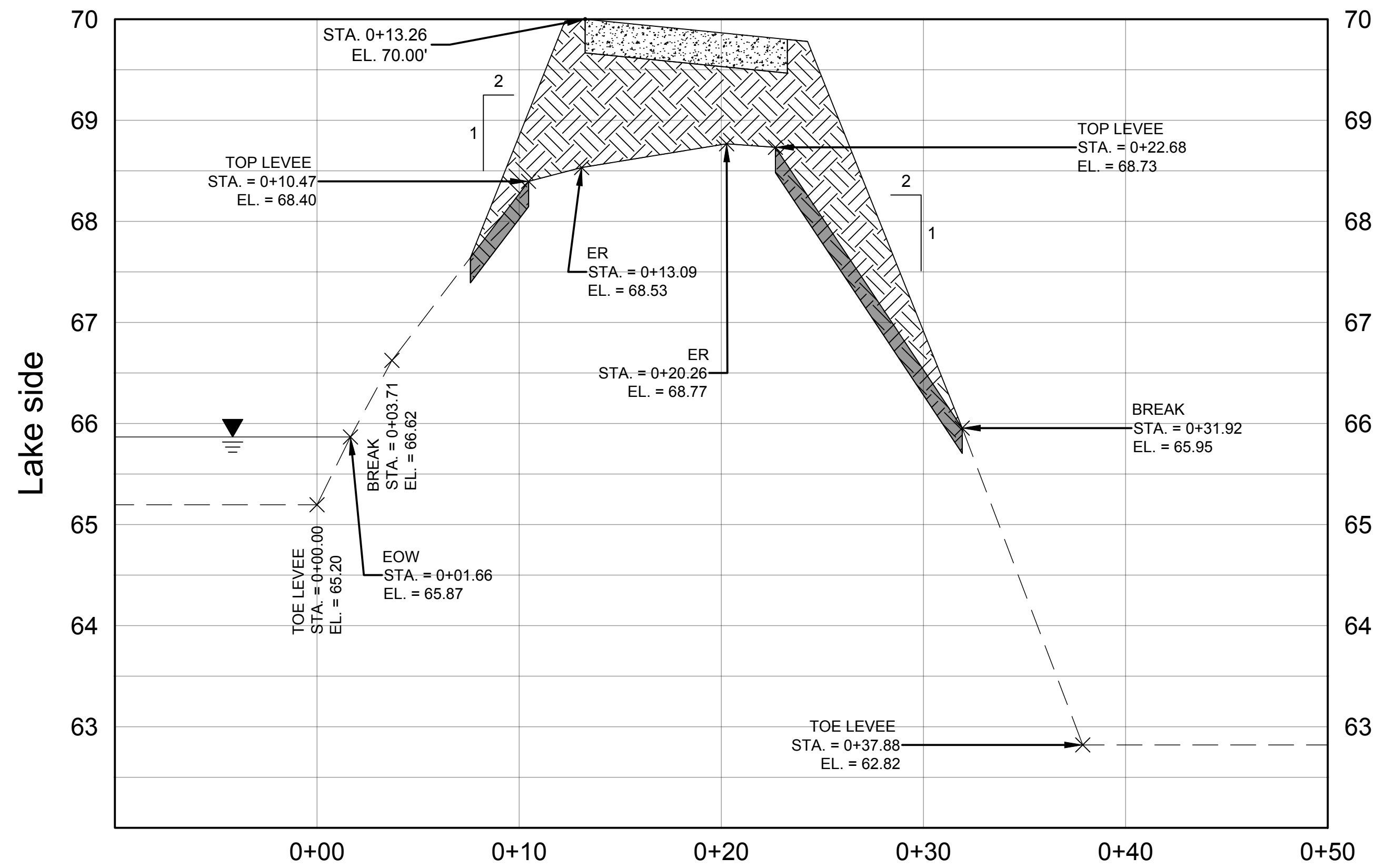
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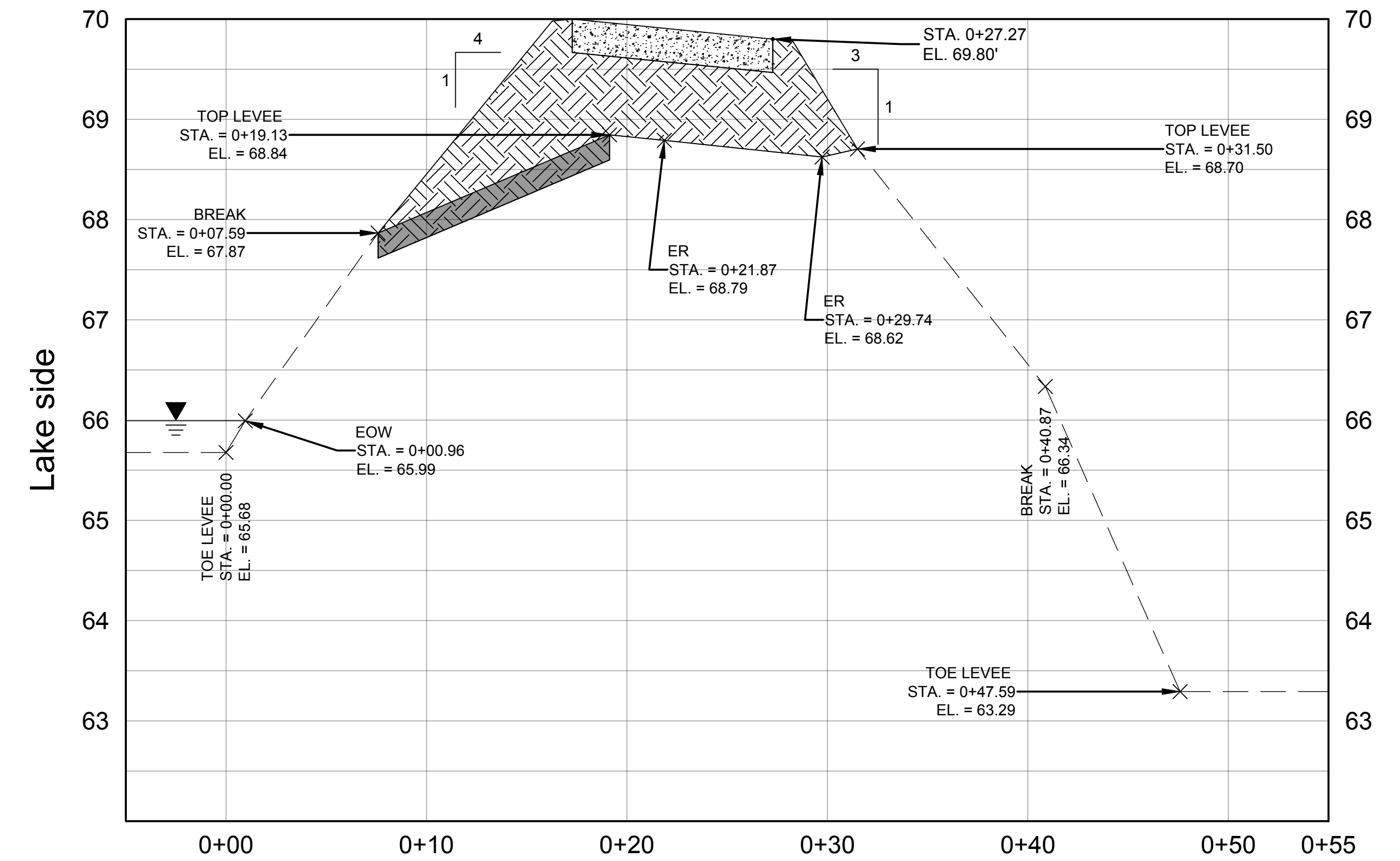
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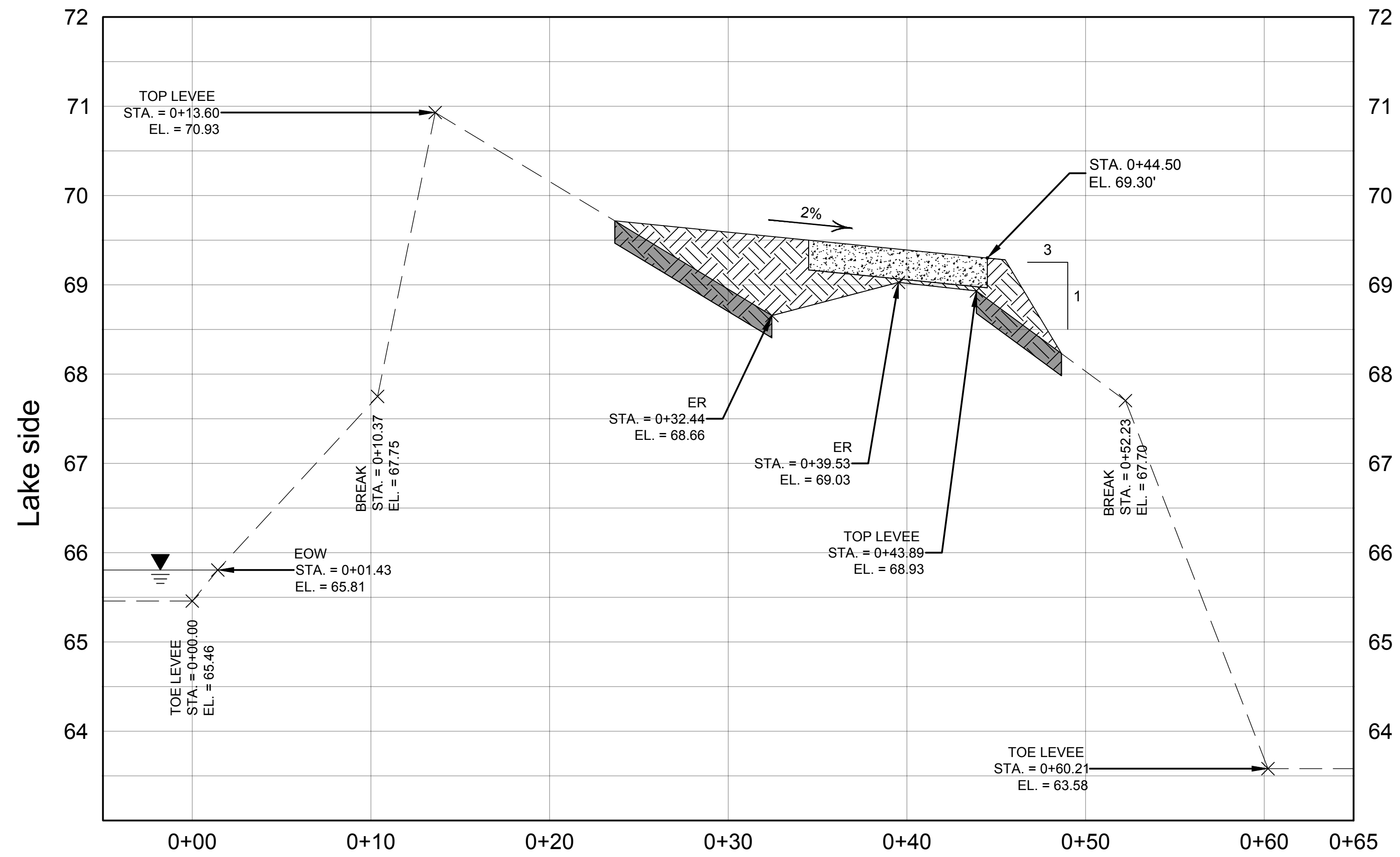
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PROJECT NO.: _____
SHEET:
C6



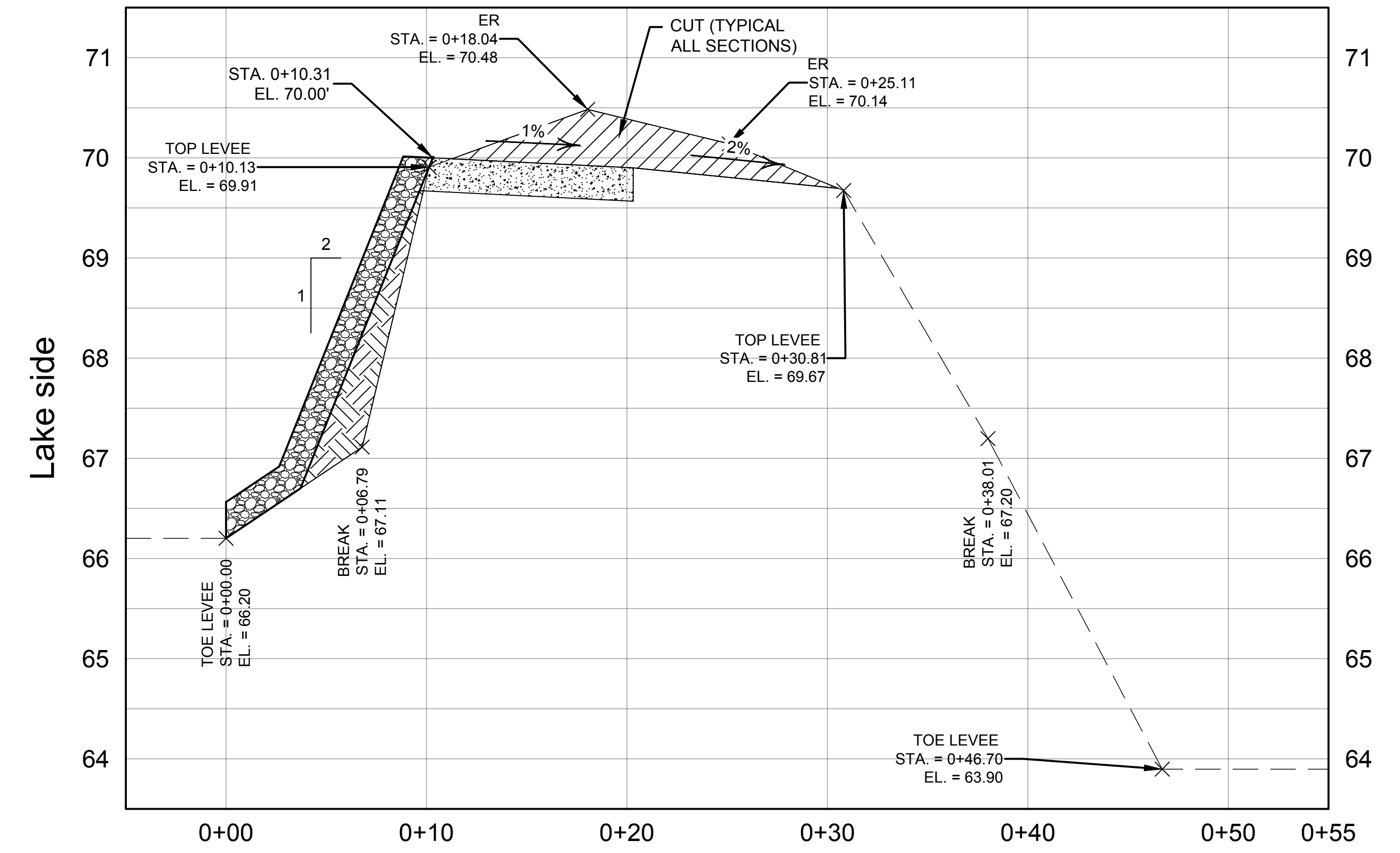
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CROSS SECTION #18



CROSS SECTION #19



CROSS SECTION #20

SCALE: HORZ. 1" = 5'
VERT. 1" = 1'

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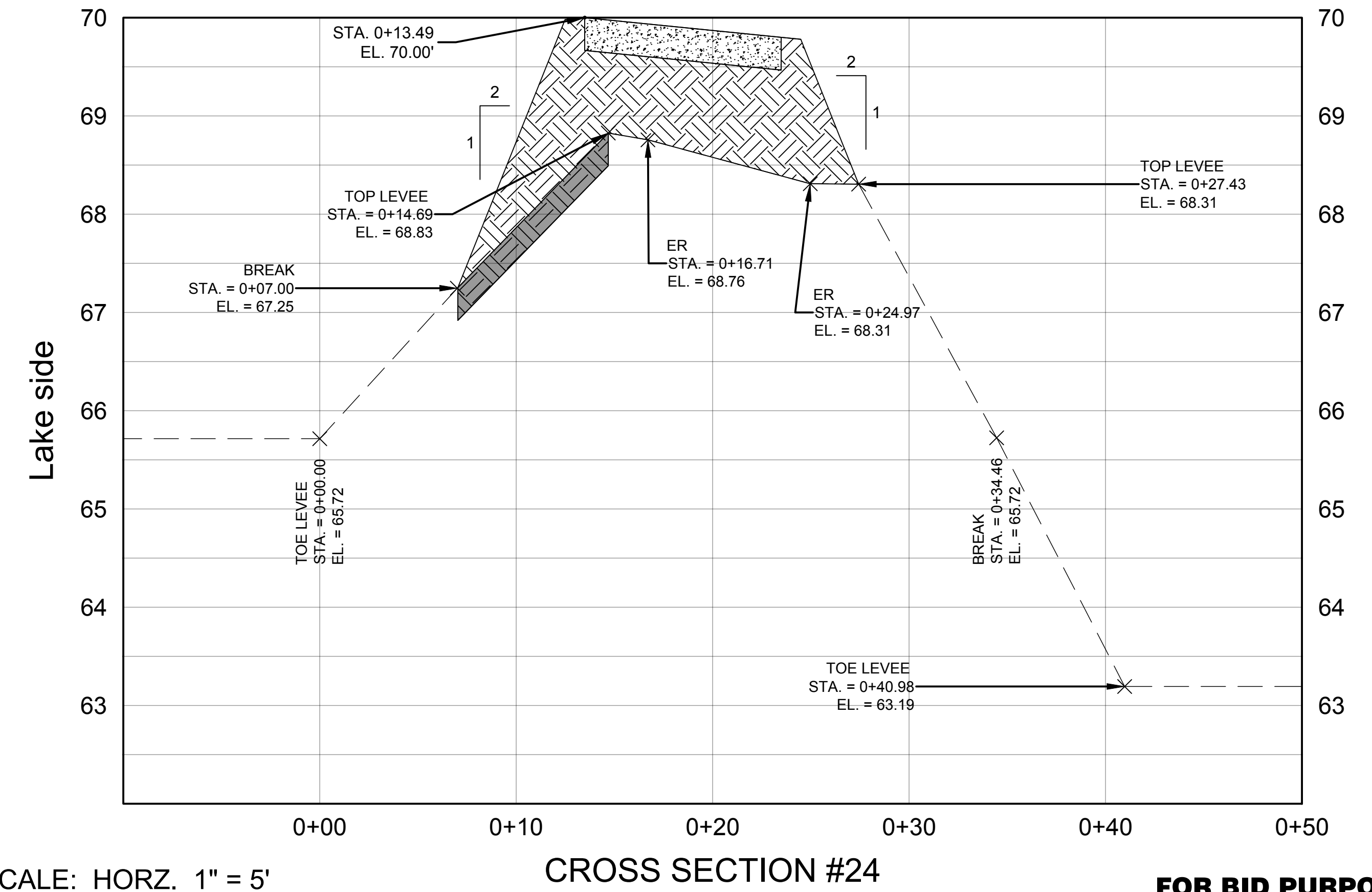
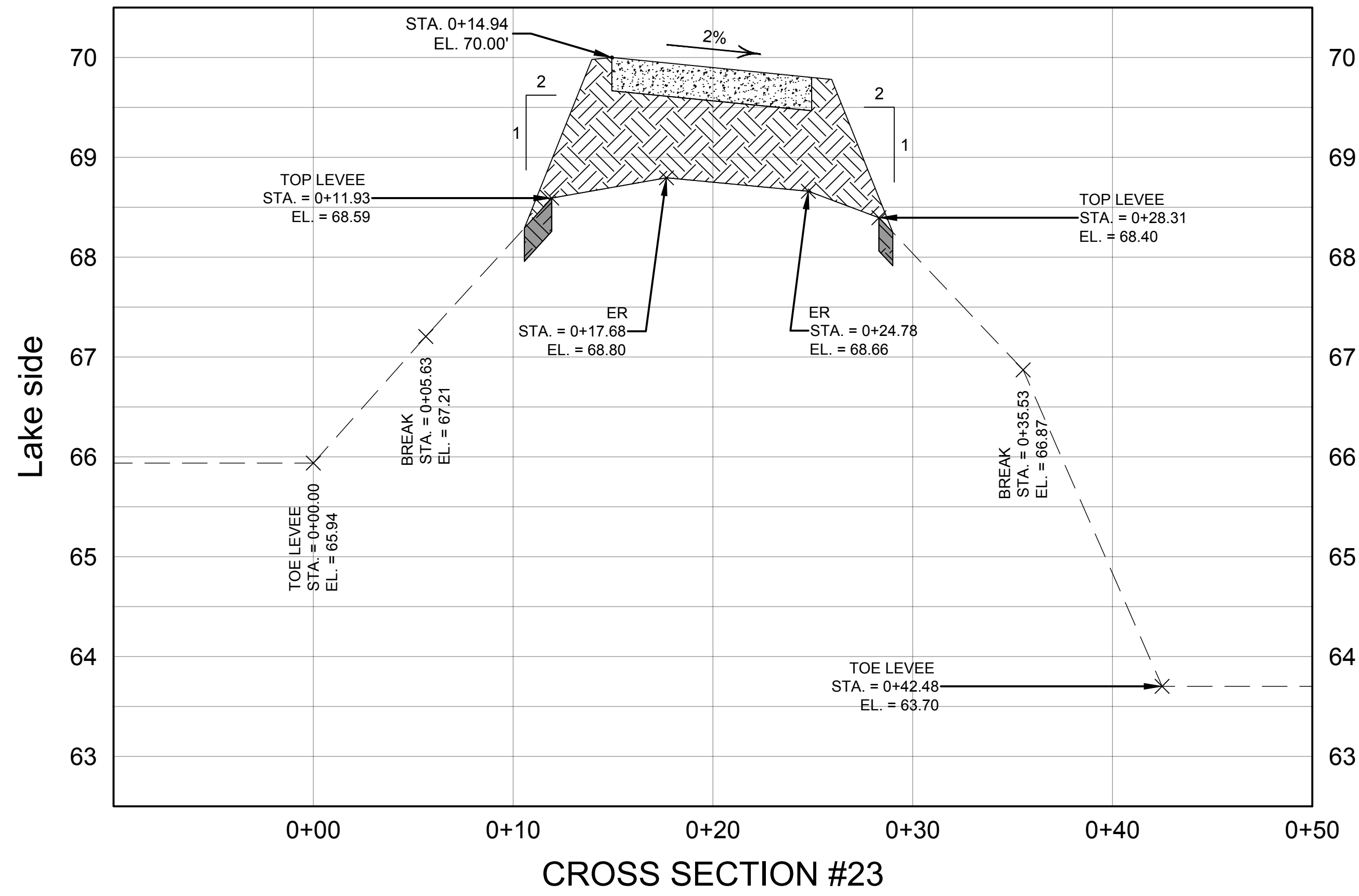
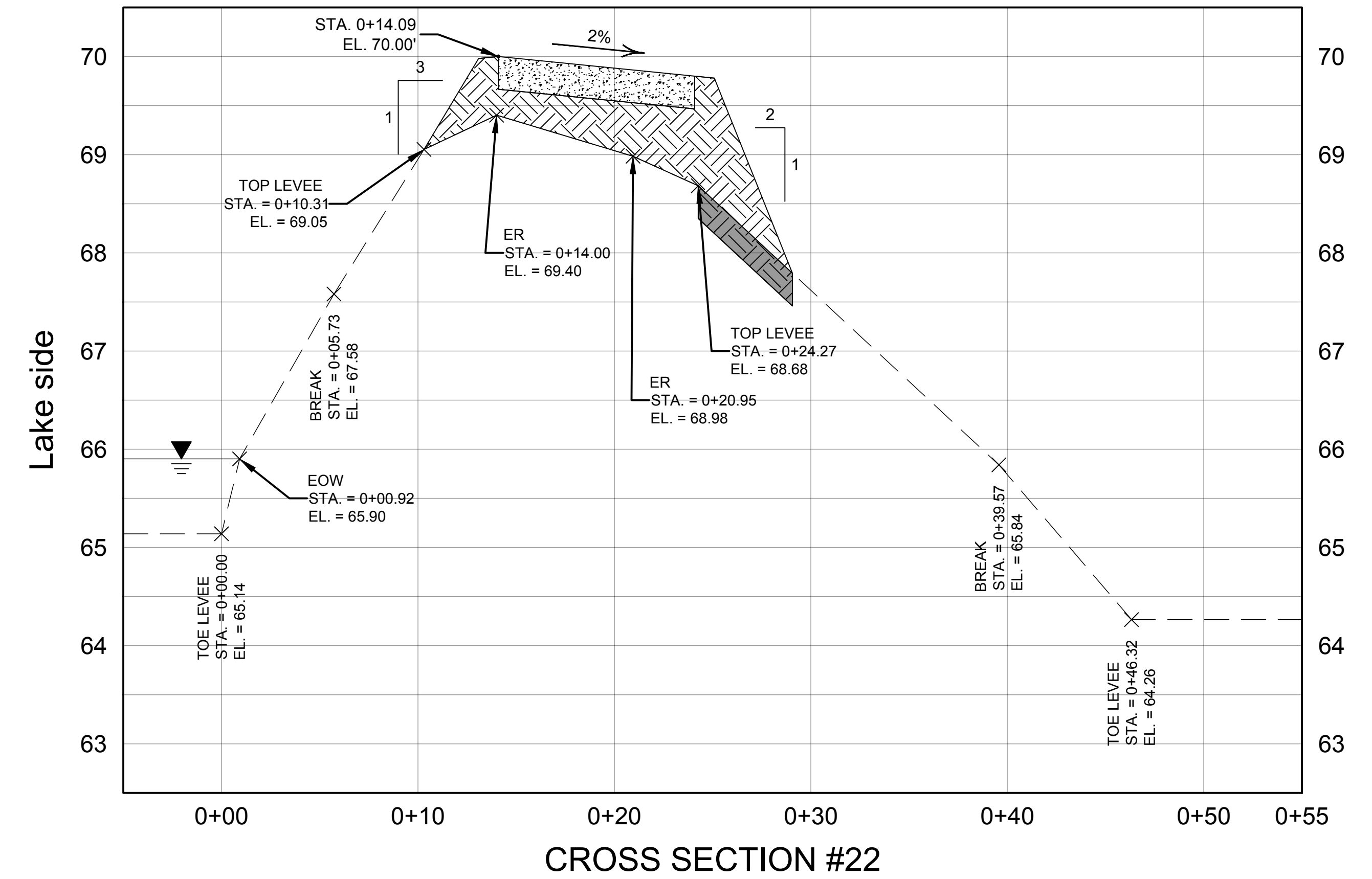
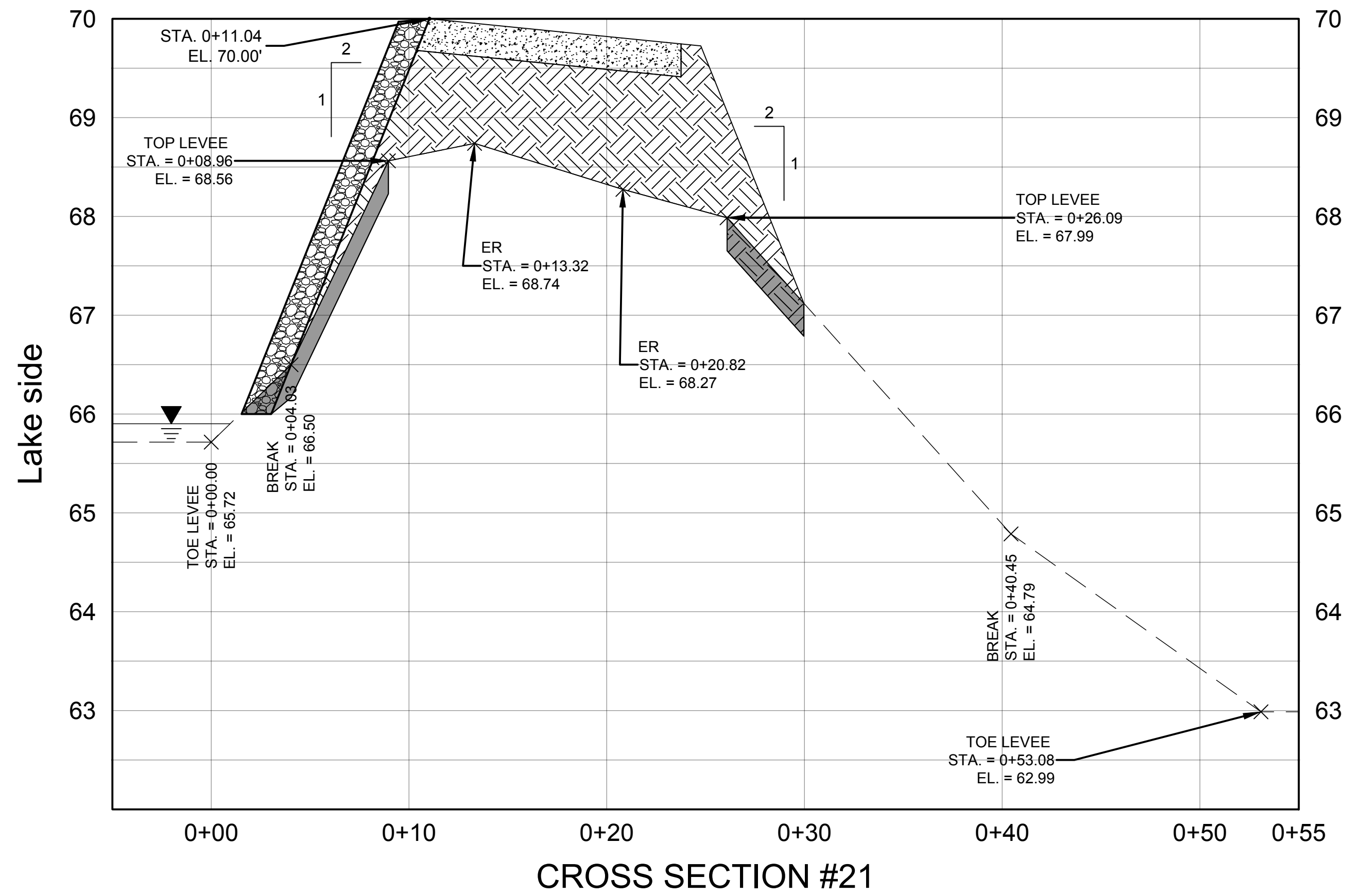
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CROSS SECTIONS 17 - 20

CERTIFICATION:
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FILE NAME:
CZLALLOSPN.dwg
PROJECT NO.:
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C7



SCALE: HORZ. 1" = 5'
VERT. 1" = 1'

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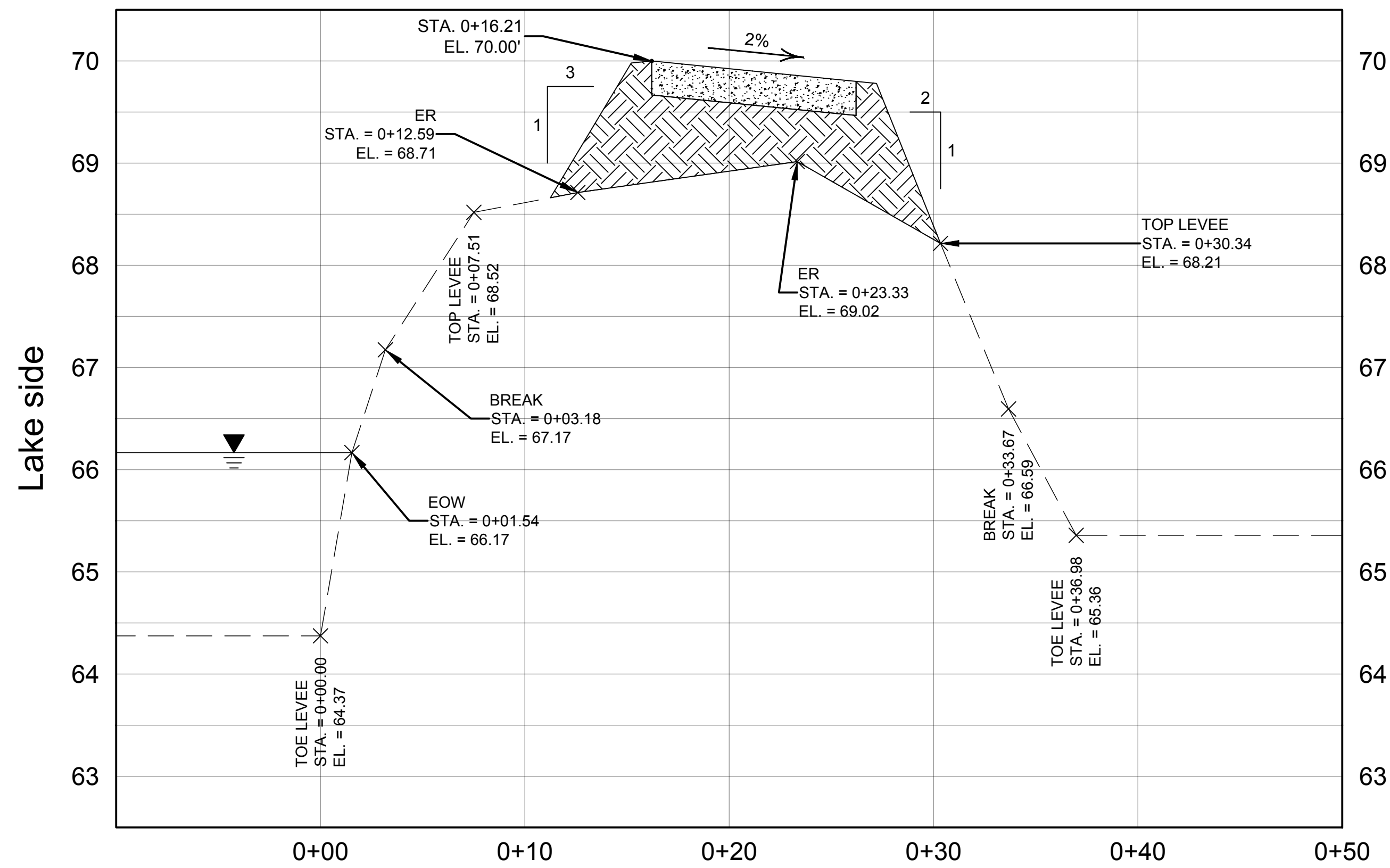
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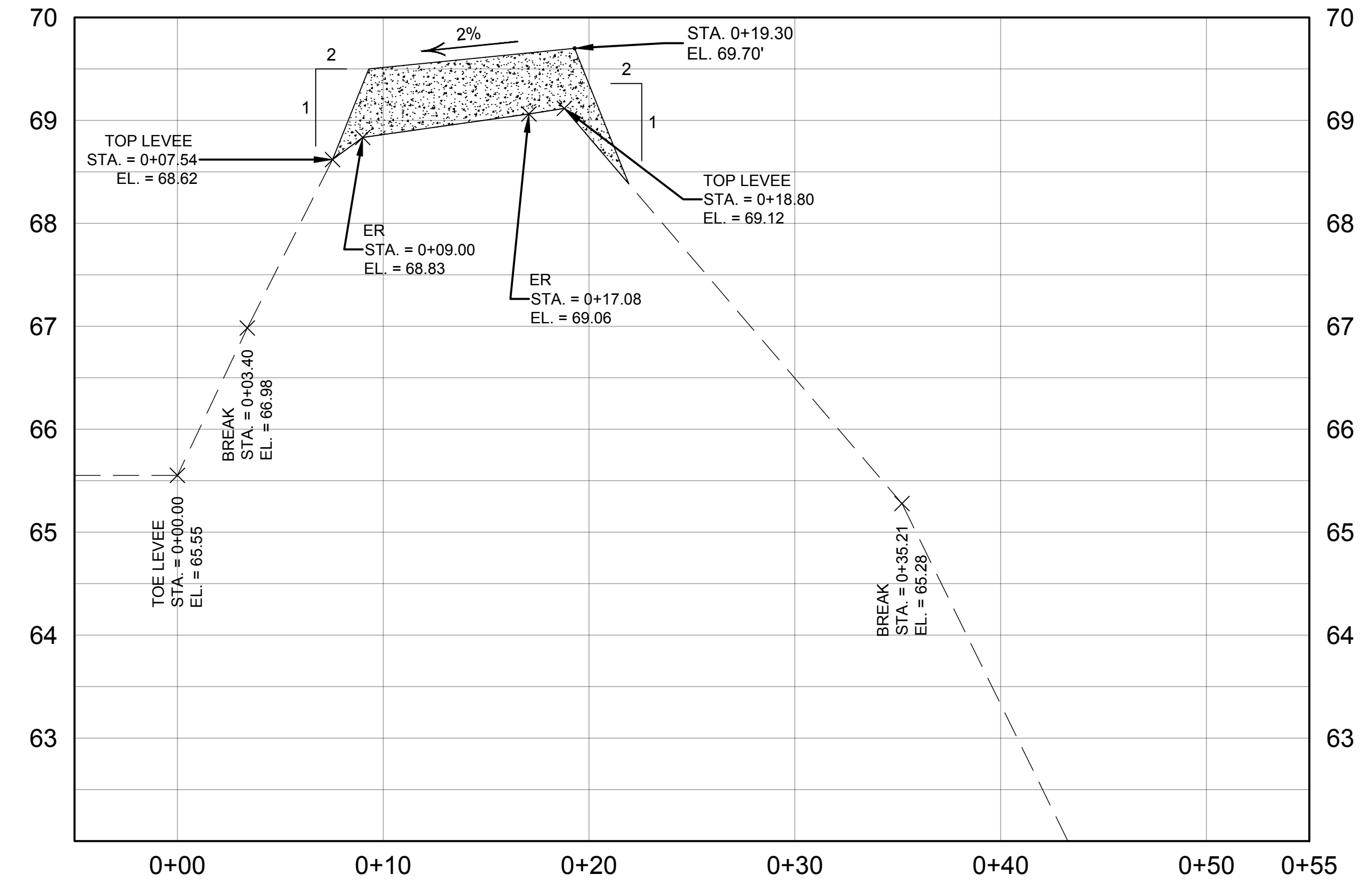
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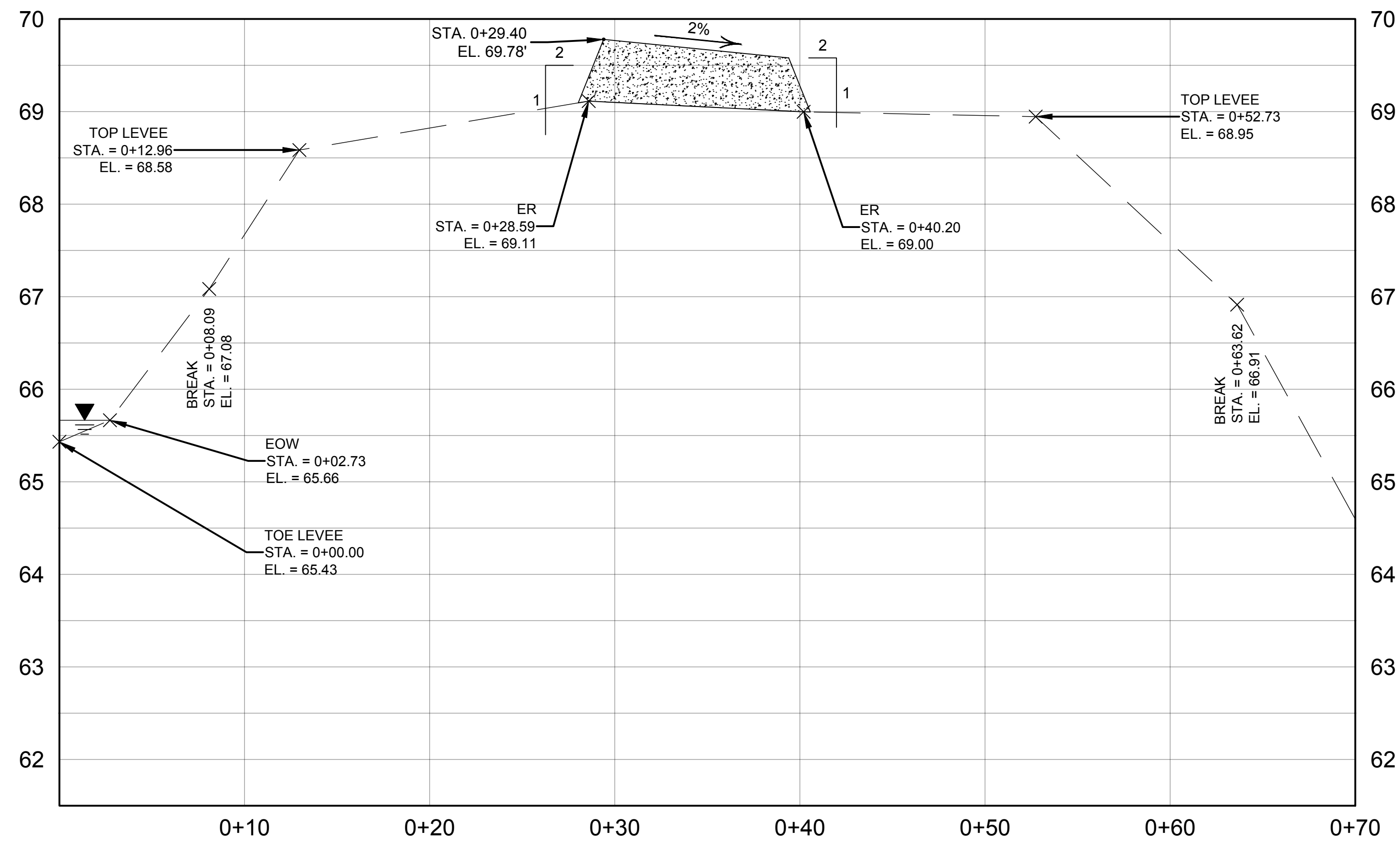
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PROJECT NO.: _____
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C8



CROSS SECTION #25



CROSS SECTION #26



CROSS SECTION #27

SCALE: HORZ. 1" = 5'
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CROSS SECTIONS 25 - 27

CERTIFICATION:

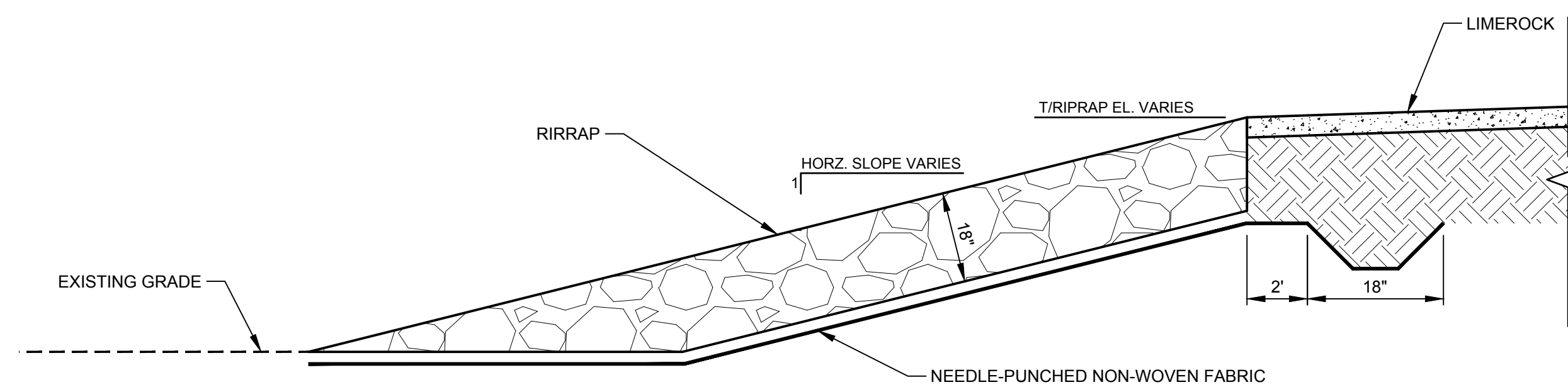
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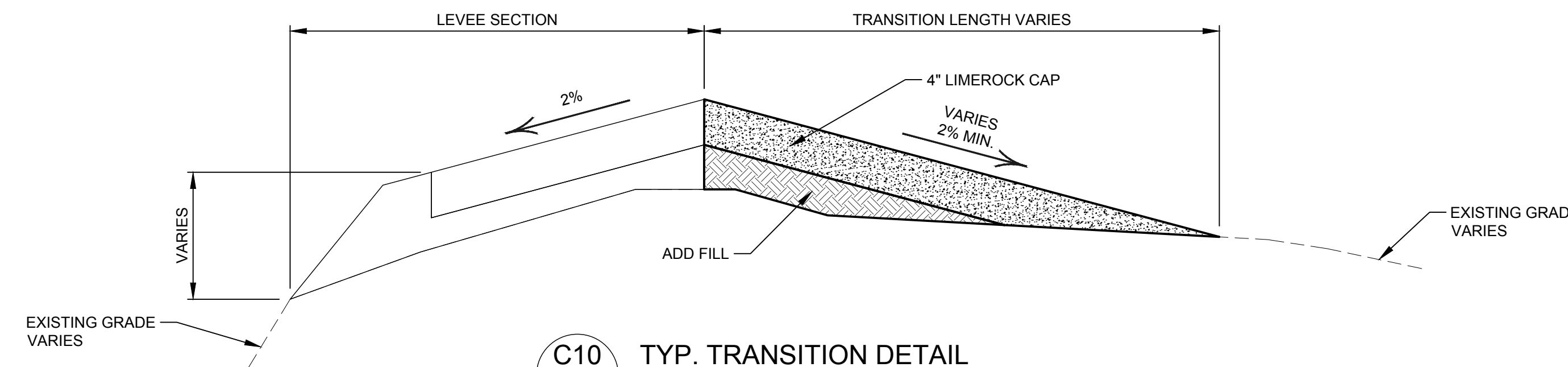
FILE NAME: C2\ALLOSPN.dwg

PROJECT NO.:

SHEET: C9



C10
1
RIPRAP KEY AT TOP OF SLOPE
NOT TO SCALE



C10
2
TYP. TRANSITION DETAIL
NOT TO SCALE

EARTHWORK NOTES:

SITE PREPARATION

- ACTIVITIES SHALL INCLUDE SURFACE WATER REMOVAL, CLEARING, GRUBBING, STRIPPING, GROUNDWATER CONTROL, AND FILL PLACEMENT AND COMPACTION. STRIPPING INCLUDES COMPLETE REMOVAL OF LOW-GROWING VEGETATION, ORGANIC TOPSOILS, PEAT/MUCK (PT), AND CONCENTRATED ROOT ZONES AND ROOT MATS. ALL UNSUITABLE MATERIALS SHALL BE PLACED ON THE NORTHERN SLOPE TO BE REGRADED UPON COMPLETION OF FILL PLACEMENT.

THE PREPARED SURFACE SHALL BE KEPT DRAINED AND NOT SCARIFIED UNTIL JUST PRIOR TO FILL PLACEMENT TO MINIMIZE SATURATION FROM RAINFALL EVENTS. PROOF-ROLLING SHALL OCCUR AFTER CUTTING AND BEFORE FILLING.

FILL

- FILL SHALL CONSIST OF SOILS CLASSIFIED AS FINE SAND (SP), SLIGHTLY SILTY SAND (SP-SM), SLIGHTLY CLAYEY SAND (SP-SC), SILTY SAND (SM), AND CLAYEY SAND (SC). SOILS WITH FINES CONTENT GREATER THAN 20 PERCENT WILL BE MORE MOISTURE SENSITIVE AND DIFFICULT TO PLACE AND COMPACT. DISTRICT STAFF SHALL APPROVE BORROW SOURCE PRIOR TO PLACEMENT.

- FILL SHALL BE FREE OF ROOTS, LOGS, REFUSE, BRUSH, SOD, OR ORGANIC AND/OR PERISHABLE MATERIALS, MUCK OR OTHER HIGHLY ORGANIC MATERIAL, ROCKS, COBBLES, BOULDERS, OR CEMENTED FRAGMENTS HAVING A DIMENSION LARGER THAN 2 INCHES.

FILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 15 INCHES IN THICKNESS. EACH LIFT SHALL BE COMPACTED UTILIZING A STATIC ROLLER WITH A MINIMUM 84-INCH 7 TON ROLLER A MINIMUM OF THREE PASSES SHALL BE REQUIRED TO ACHIEVE COMPACTION. MOISTURE CONTENT OF THE SOILS SHALL BE MANIPULATED AS NECESSARY TO MEET THE PERCENT COMPACTION REQUIREMENT. IN ADDITION TO THE PERCENT COMPACTION REQUIREMENT, THE COMPACTED SOIL SHALL BE FIRM AND UNYIELDING WHEN TRAVERSED WITH CONSTRUCTION EQUIPMENT. FILL PLACEMENT AND COMPACTION SHALL CONTINUE IN LIFTS UNTIL THE DESIGN GRADES ARE ACHIEVED.

FILL SURFACES SHALL BE PREPARED IN SUCH A MANNER THAT THE FILL MATERIALS WILL BOND WITH THE EXISTING SURFACE. PREPARED SURFACES SHALL BE SCARIFIED AND WETTED OR DRIED AS MAY BE REQUIRED TO OBTAIN SPECIFIED COMPACTION AND TO ENSURE GOOD BONDING WITH FILL MATERIALS. NO FILL SHALL BE PLACED UNTIL THE BASE MATERIALS ACCEPTING THE FILL HAVE BEEN PROPERLY PREPARED AND INSPECTED BY THE DISTRICT'S PROJECT MANAGER OR DESIGNATED REPRESENTATIVE. ALL SCARIFYING ACTIVITIES AND BREAKING OF THE GROUND SURFACE SHALL BE DONE PARALLEL TO THE CENTERLINE OF THE LEVEE.

THE LEVEE SHALL BE CUT, FILLED, AND SHAPED TO THE GEOMETRY, LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. PRIOR TO PLACEMENT OF FILL MATERIAL, THE SURFACE OF THE PREVIOUSLY COMPACTED LIFT SHALL BE THOROUGHLY SCARIFIED AND MOISTURE CONDITIONED AS NECESSARY TO BOND TO OVERLYING MATERIAL. EMBANKMENT MATERIALS SHALL BE THOROUGHLY MIXED (BY DISKING OR HARROWING) AND SPREAD BY DOZERS OR OTHER APPROVED MEANS.

INUNDATED OR DISTURBED SOIL CONDITIONS

- SHOULD THE SUBGRADE EXPERIENCE "PUMPING" AND SUBSEQUENT SOIL STRENGTH LOSS DURING EXCAVATION AND COMPACTION OPERATIONS, COMPACTION WORK SHALL BE TERMINATED. EITHER THE DISTURBED SOILS SHALL BE REMOVED AND BACKFILLED WITH "DRY" FINE SAND (SP) TO SLIGHTLY SILTY FINE SAND (SP-SM) AND COMPACTED, OR THE EXCESS MOISTURE CONTENT WITHIN THE DISTURBED SOILS BE ALLOWED TO DISSIPATE BEFORE RE-COMPACTION. THE GROUNDWATER LEVEL SHALL BE CHECKED AND CONTROLLED AS PRACTICAL TO ENSURE PROPER DRAWDOWN OF ANY HIGH GROUNDWATER CONDITIONS THAT MAY BE CAUSING THE "PUMPING" CONDITIONS DURING COMPACTION OR CONSTRUCTION ACTIVITY UPON THESE SOILS.

PROTECTION OF EARTHWORK

PRIOR TO RAIN EVENTS, THE CONTRACTOR SHALL PROTECT THE SOIL THAT HAS BEEN PLACED DURING CONSTRUCTION FROM TRAPPING RAINWATER AND BECOMING OVERLY UNSTABLE BY GRADING AND SMOOTH-ROLLING THE SURFACE TO POSITIVELY DRAIN AWAY WATER, AND TO PROMOTE RUNOFF. ALL SMOOTH-ROLLED SURFACES SHALL BE SCARIFIED PRIOR TO PLACING THE NEXT LIFT OF SOIL.

QUALITY CONTROL TESTING

THE COST OF SUCH TESTING SHALL BE BORNE BY THE DISTRICT.

FIELD DENSITY TESTS SHALL BE PERFORMED AS NECESSARY (BY THE DISTRICT OR REPRESENTATIVE) WITH EITHER A PENETROMETER PROBES TO VERIFY THE UNIFORMITY OF COMPACTION. THE CONTRACTOR AND DISTRICT STAFF SHALL AGREE TO GAUGE READING PRIOR TO COMPLETING EACH FILL PLACEMENT AT 1,000 FT INTERVALS.

TRENCH SAFETY

- ALL EARTHWORK SHALL COMPLY WITH THE REQUIREMENTS OF FLORIDA STATUTES CHAPTER 553, PART III, TRENCH SAFETY ACT. ALL TRENCH EXCAVATIONS, SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT (SECTIONS 553.60-553.64, FLORIDA STATUTES) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) TRENCH EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650, SUBPART P, INCLUDING ALL SUBSEQUENT PROVISIONS OR UPDATES TO STANDARDS AS ADOPTED BY THE FLORIDA DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY (DOLES).

VEGETATIVE COVER

- SEED MIX SHALL INCLUDE BAHIA (50 LBS/ ACRE) AND BROWN TOP MILLET OR ANNUAL RYEGRASS (35 LBS/ ACRE). HAY SHALL BE PLACED AT APPROXIMATELY 1 BALE PER 1,500 SQ.FT.

ACCESS AND LAYDOWN AREAS

- ACCESS TO LEVEE SHALL BE FROM WILDLIFE DRIVE VIA LUST ROAD OR JONES ROAD.

LAYDOWN AREAS

- CONTRACTOR MAY UTILIZE AREA AT UNIT 2 PS AND PROPERTY SOUTH OF WILDLIFE DRIVE AT CONRAD ROAD.

RIPRAP

- PROVIDE RUBBLE RIPRAP AND BEDDING STONE AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE DISTRICT. RUBBLE RIPRAP SHALL CONSIST OF EITHER BROKEN STONE OR BROKEN CONCRETE.

- PROVIDE RIPRAP SUCH THAT THE FINAL BLANKET THICKNESS IS A MINIMUM OF 18 INCHES. THE MINIMUM UNIT WEIGHT OF STONE SHALL BE 145 PCF (SATURATED SURFACE DRY). THE STONE SHALL BE REASONABLY WELL GRADED WITHIN THE FOLLOWING LIMITS:

STONE WEIGHT (LBS)	% LIGHTER BY WEIGHT
165	100
45	45-65
15	10-30
5	0-15

THE MATERIAL SHALL BE SOUND AND DURABLE, AND SHALL BE FREE OF CRACKS, SOFT SEAMS OR OTHER STRUCTURAL DEFECTS. THE PIECES SHALL BE ROUGHLY ANGULAR, AND THE LOT SHALL REASONABLY FREE OF THIN, FLAT OR ELONGATED PIECES.

- GEOTEXTILE FABRIC SHALL BE NEEDLE-PUNCHED NON-WOVEN FABRIC (OR APPROVED EQUAL) AND SHALL COMPLY WITH THE REQUIREMENTS SECTION 614 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). ADDITIONALLY, THE GEOTEXTILE FABRIC MATERIAL SHALL CONFORM TO THE REQUIREMENTS FOR TYPE D-2 OF THE FDOT SPECIFICATIONS SECTION 985.

- THE STRIPS SHALL BE PLACED TO PROVIDE A MINIMUM WIDTH OF 24 INCHES OF OVERLAP FOR EACH JOINT WITH THE UPSTREAM STRIP OF FABRIC OVERLAPPING THE DOWNSTREAM STRIP.

PIN SPACING	SLOPE
3 FT.	3:1 TO 4:1
5 FT.	FLATTER THAN 4:1

**FOR BID PURPOSES
ONLY NOT FOR
CONSTRUCTION**

NO.	REVISION	BY	DATE	APPROVED	DATE

**UPPER OCKLAWAHA RIVER BASIN
LAKE APOPKA LAKE LEVEE IMPROVEMENTS
ORANGE COUNTY, FLORIDA**

**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G.	DATE: DECEMBER 6, 2018	REVIEWER: D.R.W.
SCALE: 1" = 600'	DESIGNER: E.C.B.	SECTION CHIEF: W.R.C.

DETAILS & NOTES

CERTIFICATION: _____

P.E. NUMBER: _____

DATE: DECEMBER 6, 2018

FILE NAME: C3LALLDNS.dwg

PROJECT NO.: _____

SHEET: **C10**

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