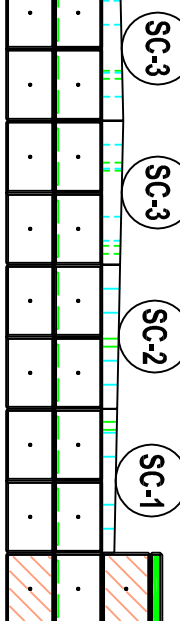
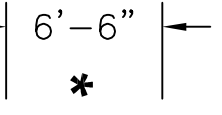
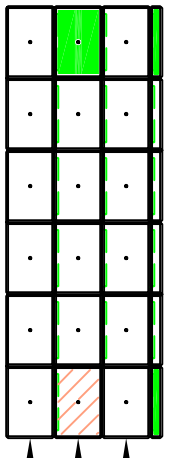


6 SPECIAL CAPS @  
 5'-11 3/4" + (6)  
 1/4" GAPS = 36'-0"  
 TOTAL LENGTH



\* NOTE: ROW 2 FULL BLOCKS IN SECTION A-A DO NOT HAVE LIPS.

# TYP. OF 2

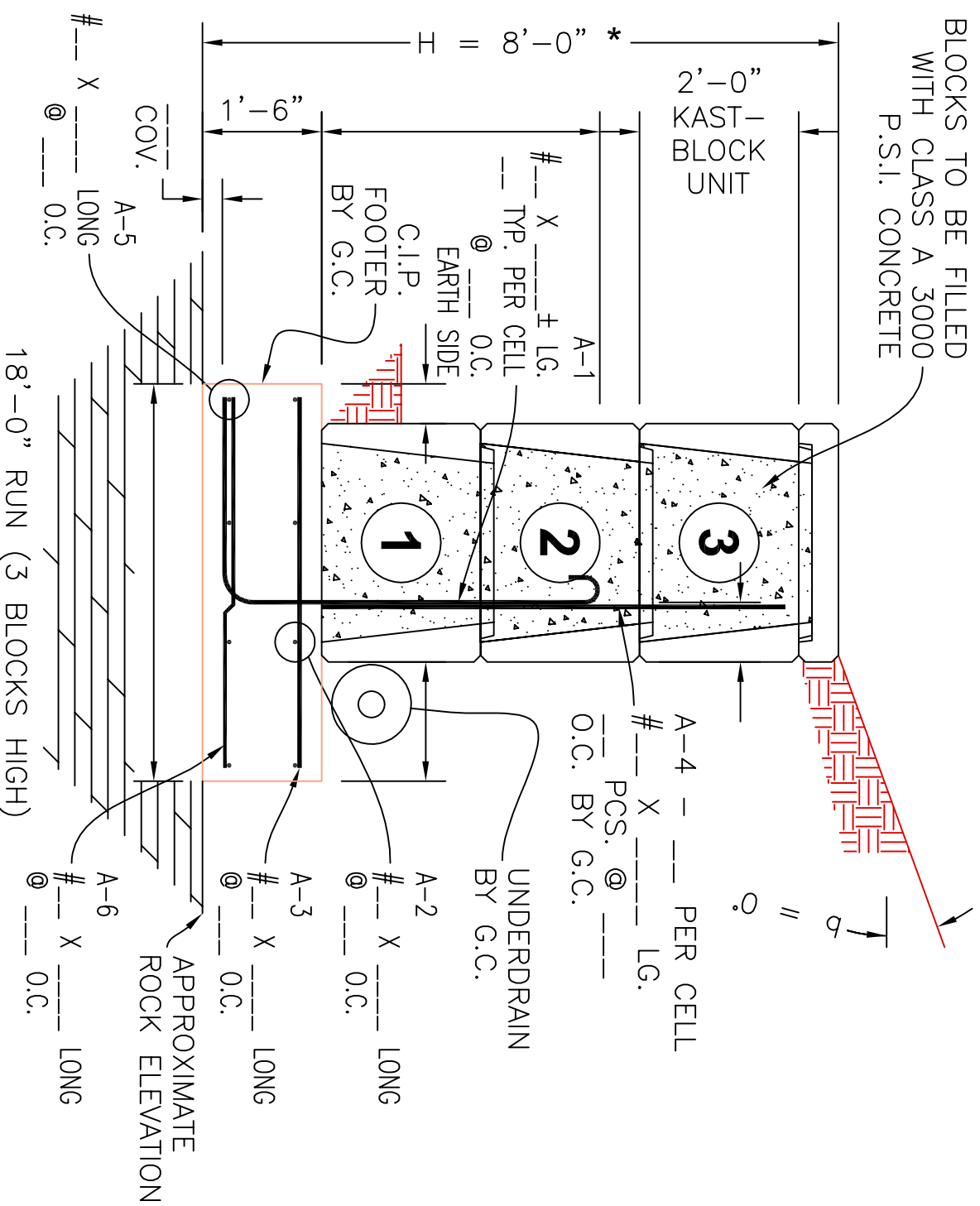
- = HALF BLOCK CAP
- = FULL BLOCK CAP
- = FULL BLOCK
- = FULL BLOCK
- = FULL BLOCK
- = SPECIAL CAP
- = HALF BLOCK
- = FULL BLOCK
- = FULL BLOCK
- = FULL BLOCK
- = NO LIP
- = END VIEW
- = NO LIP
- = END VIEW

<input type="checkbox"/> Approved <input type="checkbox"/> Approved As Noted  By: _____ Date: _____	<b>REVISION:</b> A <b>DATE:</b> _____ <b>REVIEWED BY:</b> _____ <b>DATE:</b> _____ <b>CONTR. NO.:</b> _____ <b>PAY ITEM:</b> _____ <b>PROJECT:</b> NEW OREGON ROAD - BRIDGE ABUTMENT & WINGWALL <b>LOCATION:</b> NEW OREGON ROAD BR446-6, NORTH COLLINS, NEW YORK <b>OWNER:</b> ERIE COUNTY DEPARTMENT OF PUBLIC WORKS <b>ENGINEER:</b> ECDPW/TVGA <b>CONTRACTOR:</b> ERIE COUNTY DEPARTMENT OF PUBLIC WORKS <b>ACCT #</b> 596 <b>BUFFALO, NEW YORK 14202</b> <b>PRODUCT DESIGNATION:</b> <b>KAST-BLOCK LAYOUT AND SECTIONS</b> <b>SCALE:</b> 1/8"=1' <b>DRAWN BY:</b> DAR <b>DATE:</b> 6-10-04 <b>DWG. NO.</b> 3029-NEWORGRD-02 <b>REVISED BY:</b> _____ <b>CHECKED BY:</b> _____ KISTNER CONCRETE PRODUCTS, INC., 5550 HINMAN ROAD LOCKPORT, NEW YORK 14094 - PHONE 716-434-6157
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# \* RANGE 8'-0"

"OPEN SIDE"

"EARTH SIDE"

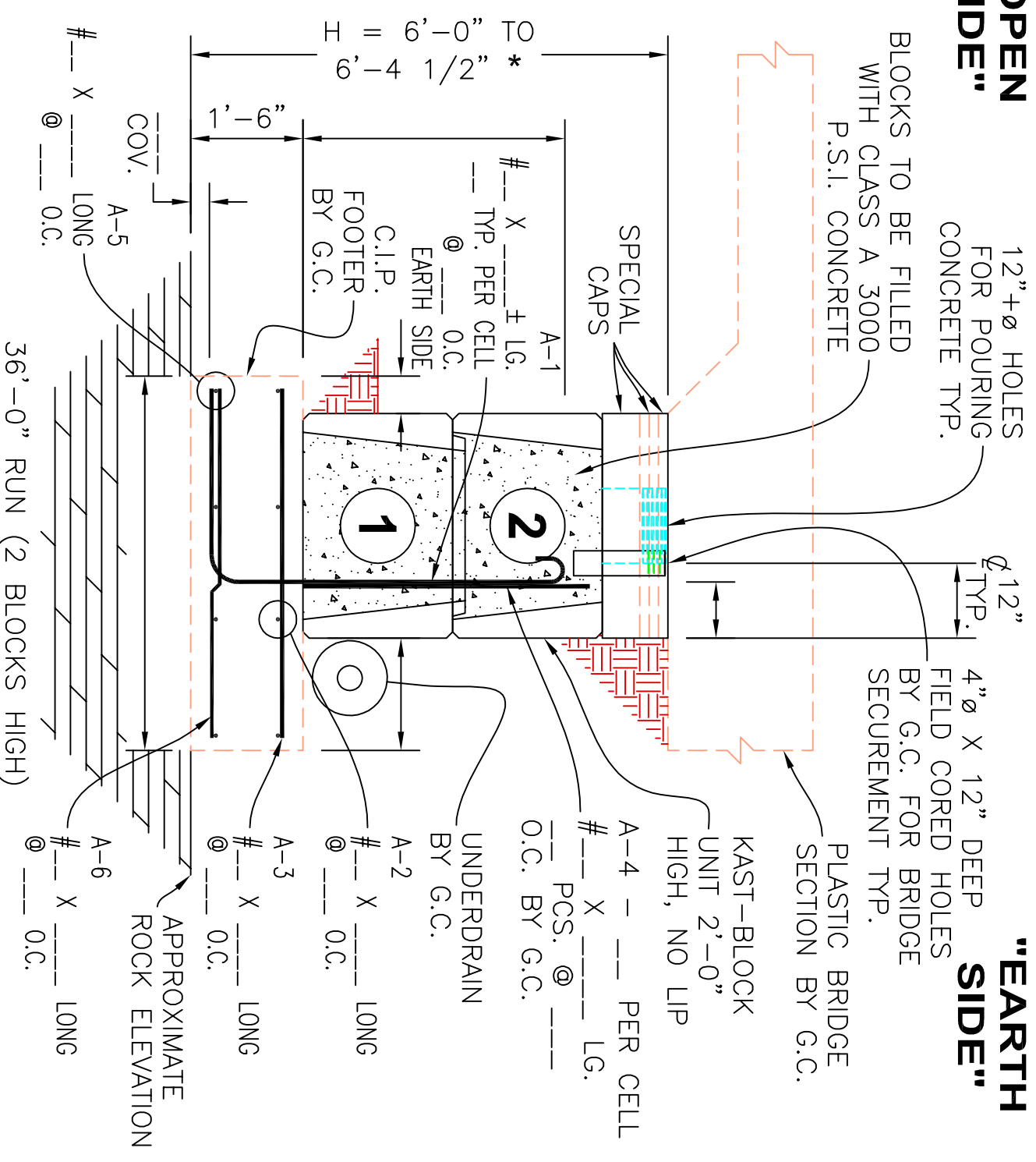


NOTE: ALL C.I.P. FOOTER STEEL TO BE PROVIDED & SET IN FIELD BY E.C.D.P.W.

# \* RANGE 6'-0" TO 6'-4 1/2"

"OPEN SIDE"

"EARTH SIDE"



TYP. OF 2

GROUP A	
NO. OF KAST-BLOCK = 3	2
MAX. HT. = 8'-0"*	
FRICITION ANGLE (phi) = 34°	
SOIL ALLOWABLE BEARING = 3000 PSF	
SOIL COEFFICIENT OF FRICTION = 0.45	
SAFETY FACTORS: 1.5 MIN. FOR SLIDING 2.0 MIN. FOR OVERTURNING	3

Approved  
 Approved As Noted

By: \_\_\_\_\_ Date \_\_\_\_\_

REVISION: A DATE: \_\_\_\_\_ REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CONTR. NO.: \_\_\_\_\_ PAY ITEM: \_\_\_\_\_

**precast** PROJECT: NEW OREGON ROAD - BRIDGE ABUTMENT & WINGWALL

LOCATION: NEW OREGON ROAD BR446-6, NORTH COLLINS, NEW YORK

OWNER: ERIE COUNTY DEPARTMENT OF PUBLIC WORKS

ENGINEER: ECDPW/TVGA

CONTRACTOR: ERIE COUNTY DEPARTMENT OF PUBLIC WORKS ACCT # 596

BUFFALO, NEW YORK 14202

PRODUCT DESIGNATION: **KAST-BLOCK WINGWALL CROSS-SECTIONS AND GROUP CHART**

SCALE: 1/2" = 1' DRAWN BY: DAR DATE: 6-11-04 DWG. NO. **3029-NEWORGRD-08**

REVISED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

KISTNER CONCRETE PRODUCTS, INC., 5550 HINMAN ROAD

LOCKPORT, NEW YORK 14094 - PHONE 716-434-6157

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