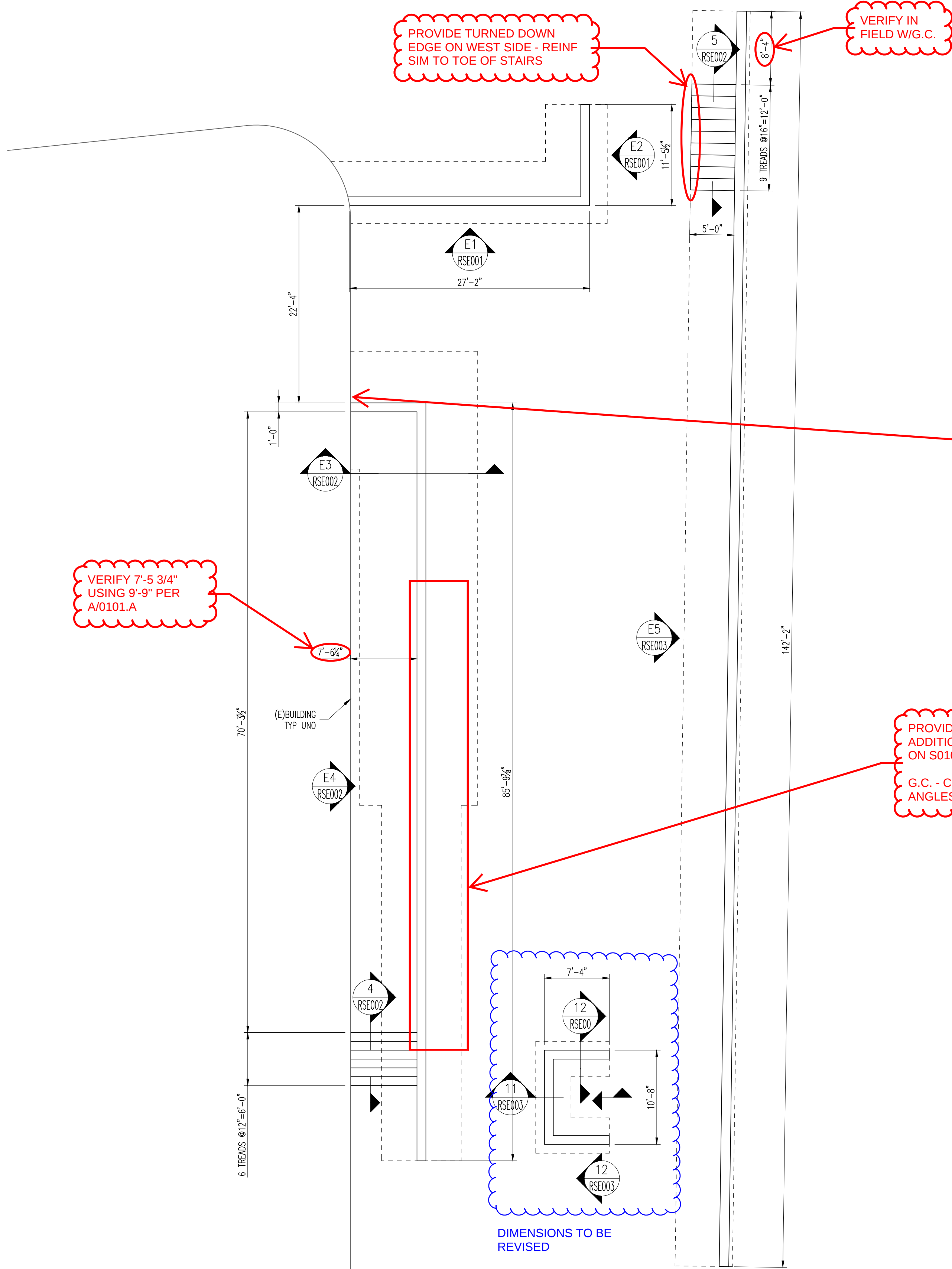




A/E PLEASE VERIFY IF DOWELS NEED TO BE PROVIDED TO THE FOOTING & RETAINING WALL INTO (C)BUILDING TYP. UND

DOWELS THIS LOCATION

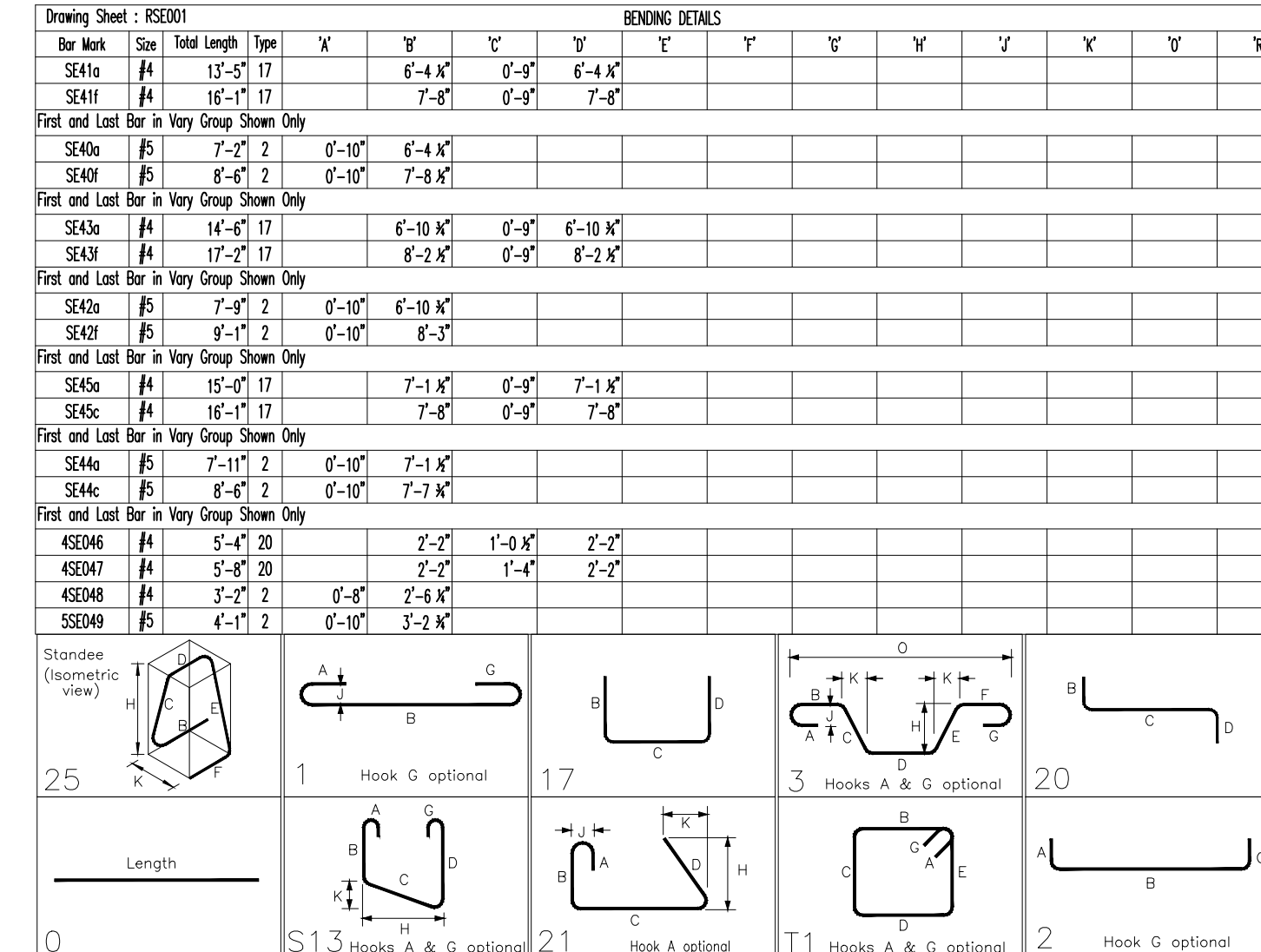
PROVIDE DETAILING FOR ADDITIONAL WALL PER ADD 1-11 ON S0101 AND S/S0004
G.C. - COORD EMBEDDED ANGLES FOR S/S0004

A/E PLEASE VERIFY ALL DIMENSIONS SHOWN TYP. UND

EAST SITE RETAINING WALLS PLAN

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

Drawing Sheet - RSE001												
Bar Mark	Size	Total Length	Type	X	Y	Z	W	V	U	T	S	R
4E015	#4	4'-11"	25		1'-4"	0'-7"	0'-8"	0'-7"	1'-4"	0'-7"	0'-3"	
4E011	#4	5'-1"	1	0'-7"	5'-1"	2'-8"						
4E013	#4	5'-8"	17		2'-8"	2'-8"						
4E014	#4	4'-4"	17		2'-8"	2'-8"						
4E012	#4	11'-5"	3		4'-10"	5'-7"	1'-0"					
SE186	#4	5'-4"	17	0'-7"	5'-4"							
SE188	#4	6'-10"	1	0'-7"	6'-3"							
First and Last Bar in Very Group Shown Only												
SE186	#4	7'-5"	1	0'-7"	6'-4"							
SE188	#4	7'-5"	1	0'-7"	7'-2"							
First and Last Bar in Very Group Shown Only												
SE186	#4	7'-5"	1	0'-7"	6'-4"							
SE188	#4	7'-5"	1	0'-7"	7'-2"							
SE186	#4	12'-5"	3	0'-7"	6'-10"	5'-7"	1'-1"					
SE188	#4	11'-11"	20		6'-11"	1'-4"	3'-5"					
SE186	#4	7'-5"	20		3'-1"	1'-1"	2'-11"					
SE188	#4	6'-10"	17		3'-5"	3'-5"						
SE186	#4	7'-4"	1	0'-8"	6'-10"							
SE188	#4	3'-4"	25		1'-4"	0'-10"	0'-8"	0'-10"	1'-4"	0'-10"	0'-5"	
SE186	#4	8'-0"	17		2'-4"	2'-4"						
SE188	#4	8'-11"	1		9'-11"							
First and Last Bar in Very Group Shown Only												
SE186	#4	22'-9"	3		18'-3"	3'-4"						
SE188	#4	4'-11"	25		1'-4"	0'-7"	0'-8"	0'-7"	1'-4"	0'-7"	0'-3"	
SE186	#4	18'-7"	3		0'-4"	2'-10"						
SE188	#4	14'-8"	3		11'-8"	0'-7"	2'-5"					
SE186	#4	8'-0"	17		8'-0"							
SE188	#4	8'-11"	1		8'-11"							
First and Last Bar in Very Group Shown Only												
SE186	#4	7'-5"	1	0'-8"	6'-7"							
SE188	#4	7'-5"	1	0'-8"	7'-5"							
First and Last Bar in Very Group Shown Only												
SE186	#4	22'-7"	3		15'-1"	0'-5"						
SE188	#4	10'-11"	53		2'-3"	0'-11"	1'-8"					
SE186	#4	9'-10"	3		7'-3"	2'-2"						
SE188	#4	9'-4"	21		2'-8"	2'-5"						
SE186	#4	5'-5"	25		1'-4"	0'-10"	1'-8"	0'-10"	1'-4"	0'-10"	0'-5"	
SE188	#4	5'-5"	11	0'-4"	0'-7"	0'-7"	0'-7"	0'-7"	0'-4"			
SE186	#4	10'-9"	3		5'-9"	2'-2"	2'-9"					
SE188	#4	7'-4"	3		2'-9"	2'-5"						
SE186	#4	6'-5"	3		2'-8"	2'-11"	2'-9"					
SE188	#4	11'-5"	20		6'-10"	1'-0"	3'-4"					
SE186	#4	8'-5"	20		3'-10"	1'-0"	3'-4"					
SE188	#4	5'-4"	20		3'-10"	1'-0"	3'-4"					
SE186	#4	5'-4"	2	0'-10"	4'-5"							
SE188	#4	7'-5"	2	0'-10"	6'-7"							
First and Last Bar in Very Group Shown Only												
SE186	#4	9'-4"	17		4'-5"	0'-9"	4'-5"					
SE188	#4	14'-0"	17		0'-7"	0'-9"	6'-7"					
First and Last Bar in Very Group Shown Only												
SE186	#4	12'-5"	17		5'-10"	0'-9"	5'-10"					
SE188	#4	15'-11"	17		7'-2"	0'-9"	7'-2"					
First and Last Bar in Very Group Shown Only												
SE186	#4	6'-4"	2	0'-10"	5'-10"							
SE188	#4	8'-0"	2	0'-10"	7'-2"							



LAP CHART-U.N.O.

Bar Mark	Size	Total Length	Type	X	Y	Z	W	V	U	T	S	R
4E015	#4	4'-11"	25		1'-4"	0'-7"	0'-8"	0'-7"	1'-4"	0'-7"	0'-3"	
4E011	#4	5'-1"	1	0'-7"	5'-1"	2'-8"						
4E013	#4	5'-8"	17		2'-8"	2'-8"						
4E014	#4	4'-4"	17		2'-8"	2'-8"						
4E012	#4	11'-5"	3		4'-10"	5'-7"	1'-0"					
SE186	#4	5'-4"	17	0'-7"	5'-4"							
SE188	#4	6'-10"	1	0'-7"	6'-3"							
First and Last Bar in Very Group Shown Only												
SE186	#4	7'-5"	1	0'-7"	6'-4"							
SE188	#4	7'-5"	1	0'-7"	7'-2"							
First and Last Bar in Very Group Shown Only												
SE186	#4	7'-5"	1	0'-7"	6'-4"							
SE188	#4	7'-5"	1	0'-7"	7'-2"							
SE186	#4	12'-5"	3	0'-7"	6'-10"	5'-7"	1'-1"					
SE188	#4	11'-11"	20		6'-11"	1'-4"	3'-5"					
SE186	#4	7'-5"	20		3'-1"	1'-1"	2'-11"					
SE188	#4	6'-10"	17		3'-5"	3'-5"						
SE186	#4	7'-4"	1	0'-8"	6'-10"							
SE188	#4	3'-4"	25		1'-4"	0'-10"	0'-8"	0'-10"	1'-4"	0'-10"	0'-5"	
SE186	#4	8'-0"	17		2'-4"	2'-4"						
SE188	#4	8'-11"	1		9'-11"							
First and Last Bar in Very Group Shown Only												
SE186	#4	22'-9"	3		18'-3"	3'-4"						
SE188	#4	4'-11"	25		1'-4"	0'-7"	0'-8"	0'-7"	1'-4"	0'-7"	0'-3"	
SE186	#4	18'-7"	3		0'-4"	2'-10"						
SE188	#4	14'-8"	3		11'-8"	0'-7"	2'-5"					
SE186	#4	8'-0"	17		8'-0"							
SE188	#4	8'-11"	1		8'-11"							
First and Last Bar in Very Group Shown Only												
SE186	#4	7'-5"	1	0'-8"	6'-7"							
SE188	#4	7'-5"	1	0'-8"	7'-5"							
First and Last Bar in Very Group Shown Only												
SE186	#4	22'-7"	3		15'-1"	0'-5"						
SE188	#4	10'-11"	53		2'-3"	0'-11"	1'-8"					
SE186	#4	9'-10"	3		7'-3"	2'-2"						
SE188	#4	9'-4"	21		2'-8"	2'-5"						
SE186	#4	5'-5"	25		1'-4"	0'-10"	1'-8"	0'-10"	1'-4"	0'-10"	0'-5"	
SE188	#4	5'-5"	11	0'-4"	0'-7"	0'-7"	0'-7"	0'-7"	0'-4"			
SE186	#4	10'-9"	3		5'-9"	2'-2"	2'-9"					
SE188	#4	7'-4"	3		2'-9"	2'-5"						
SE186	#4	6'-5"	3		2'-8"	2'-11"	2'-9"					
SE188	#4	11'-5"	20		6'-10"	1'-0"	3'-4"					
SE186	#4	8'-5"	20		3'-10"	1'-0"	3'-4"					
SE188	#4	5'-4"	20		3'-10"	1'-0"	3'-4"					
SE186	#4	5'-4"	2	0'-10"	4'-5"							
SE188	#4	7'-5"	2	0'-10"	6'-7"							
First and Last Bar in Very Group Shown Only												
SE186	#4	9'-4"	17		4'-5"	0'-9"	4'-5"					
SE188	#4	14'-0"	17		0'-7"	0'-9"	6'-7"					
First and Last Bar in Very Group Shown Only												
SE186	#4	12'-5"	17		5'-10"	0'-9"	5'-10"					
SE188	#4	15'-11"	17		7'-2"	0'-9"	7'-2"					
First and Last Bar in Very Group Shown Only												
SE186	#4	6'-4"	2	0'-10"	5'-10"							
SE188	#4	8'-0"	2	0'-10"	7'-2"							

ALL MATERIAL ON THIS DRAWING SHALL BE ASTM A615 GRADE 60 U.N.O.

FOR THE BENDING DETAILS ON THIS SHEET, REFER TO DRAWING: RSE001

No.	Description	Date	By
0	FOR APPROVAL	11-7-16	BJE
Revisions and Issue Record			
The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.			
THIS DRAWING IS NOT TO BE SCALED.			
ST. LOUIS, MO.			
HarrisRebar National Strength. Local Service. PHONE: 314-382-2855 FAX: 314-382-1711			
Project: WEBSTER ISB PHASE 1			
Drawing: EAST SITE WALLS- PLAN VIEW/ SECTIONS & DETAILS			
Customer: K C I Construction			
Engineer: CANNON DESIGN			
Date	Drawn	Chkd.	JOB No.
11-7-16	BJE		00916023
			Dwg. No.
			RSE001

A/E PLEASE VERIFY IF BAR DOWELS NEED TO BE PROVIDED TO THE FOOTING & RETAINING WALL INTO (REBUILDING TYP UNO)

DOWELS THIS LOCATION

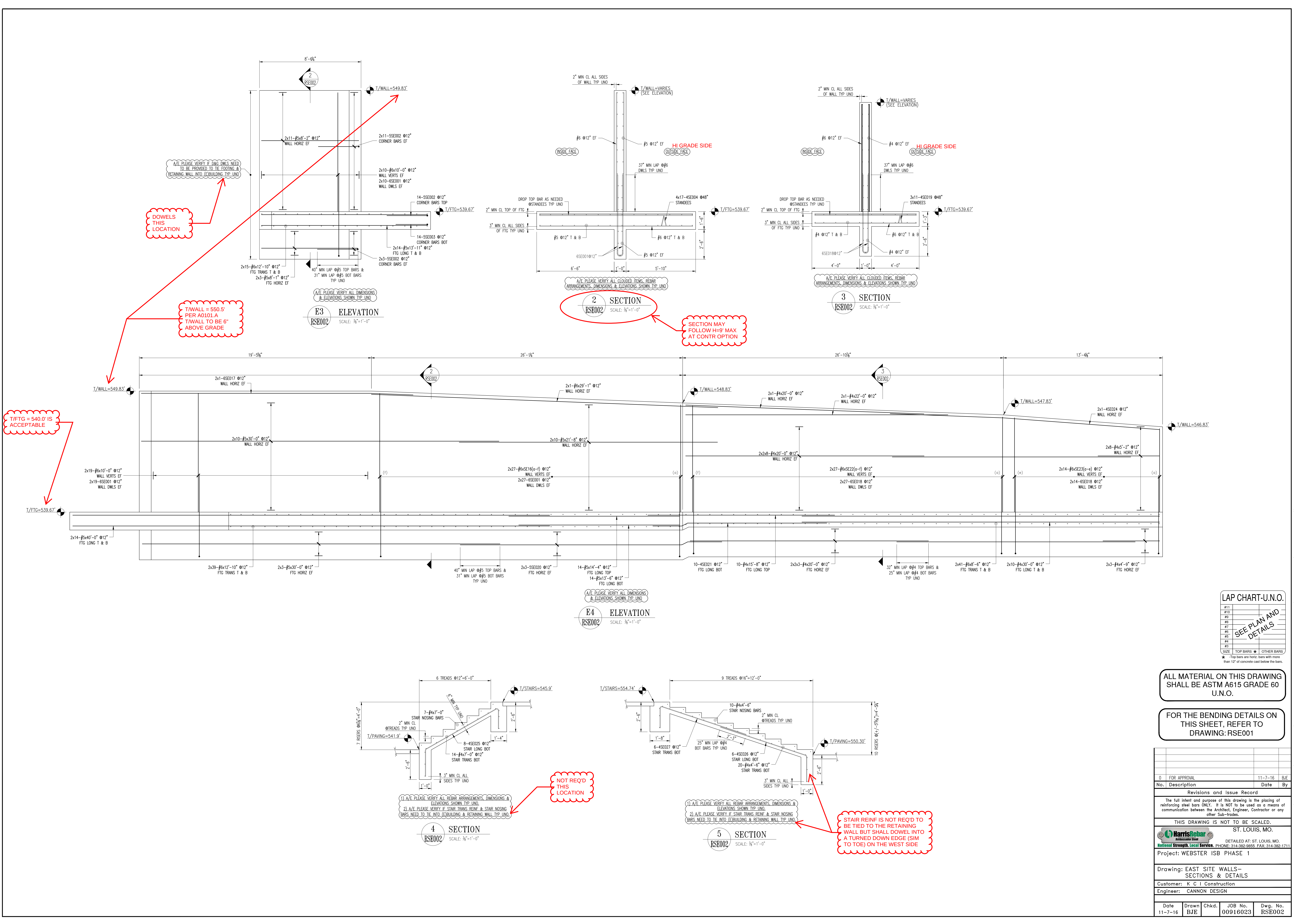
T/WALL = 550.5
T/WALL TO BE 6" ABOVE GRADE

T/FTG = 540.0' IS ACCEPTABLE

SECTION MAY FOLLOW H=9' MAX AT CONTR OPTION

NOT REQ'D THIS LOCATION

STAIR REINF IS NOT REQ'D TO BE TIED TO THE RETAINING WALL BUT SHALL DOWEL INTO A TURNED DOWN EDGE (SIM TO TOE) ON THE WEST SIDE

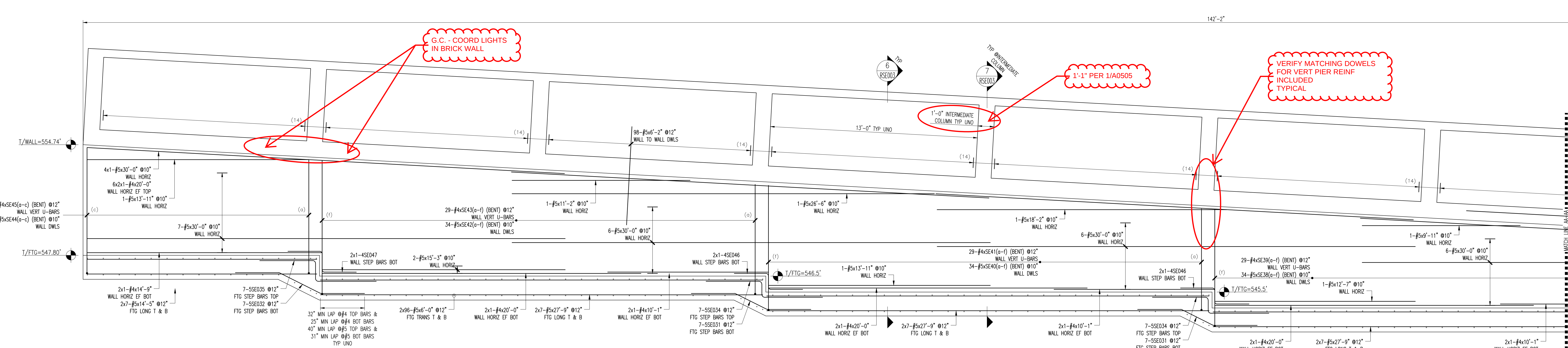


LAP CHART-U.N.O.	
#11	
#10	
#9	
#8	
#7	
#6	
#5	
#4	
#3	
#2	
#1	
SEE PLAN AND DETAILS	
★ TOP BARS ARE HORIZ. BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.	

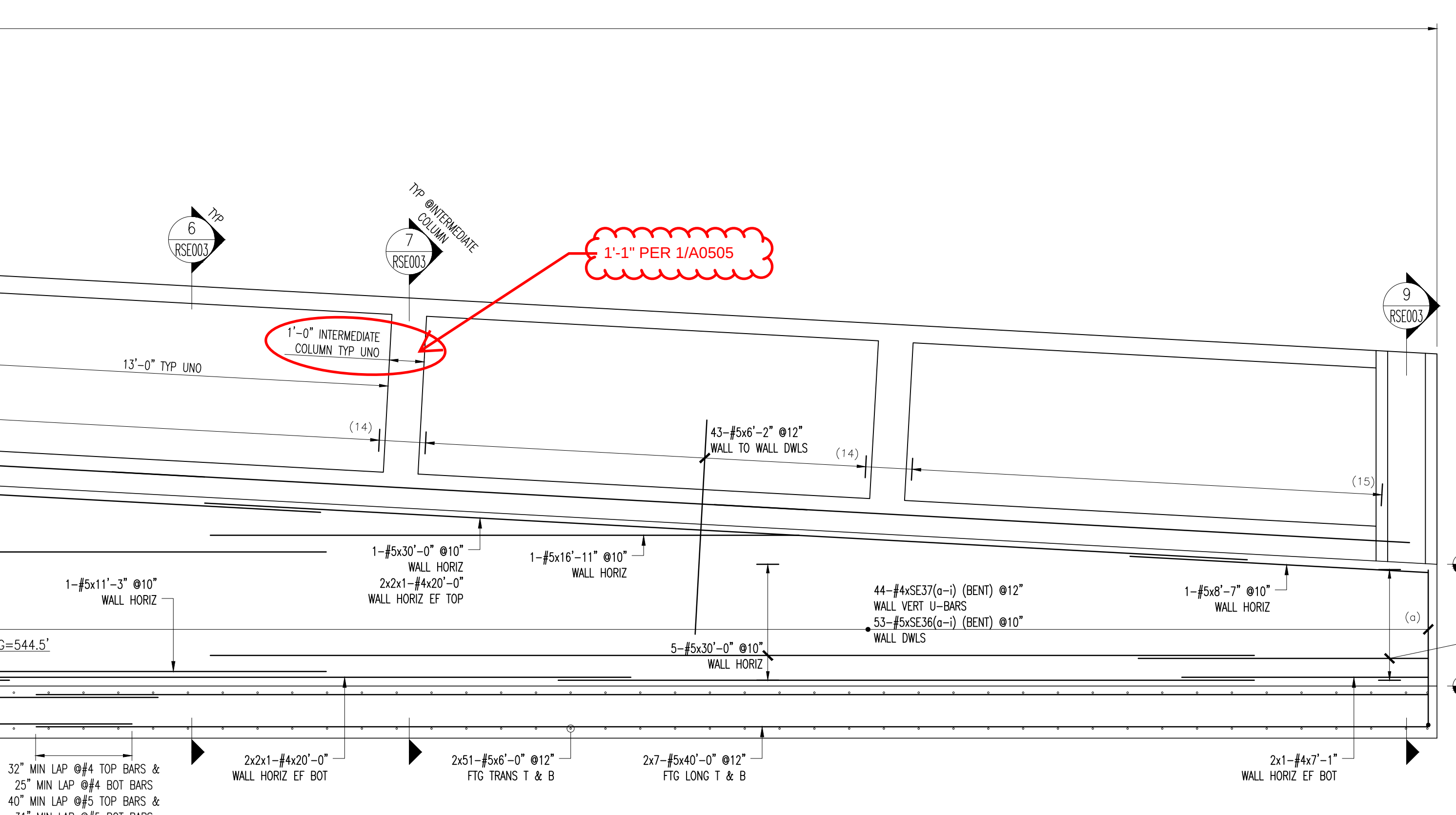
ALL MATERIAL ON THIS DRAWING SHALL BE ASTM A615 GRADE 60 U.N.O.

FOR THE BENDING DETAILS ON THIS SHEET, REFER TO DRAWING: RSE001

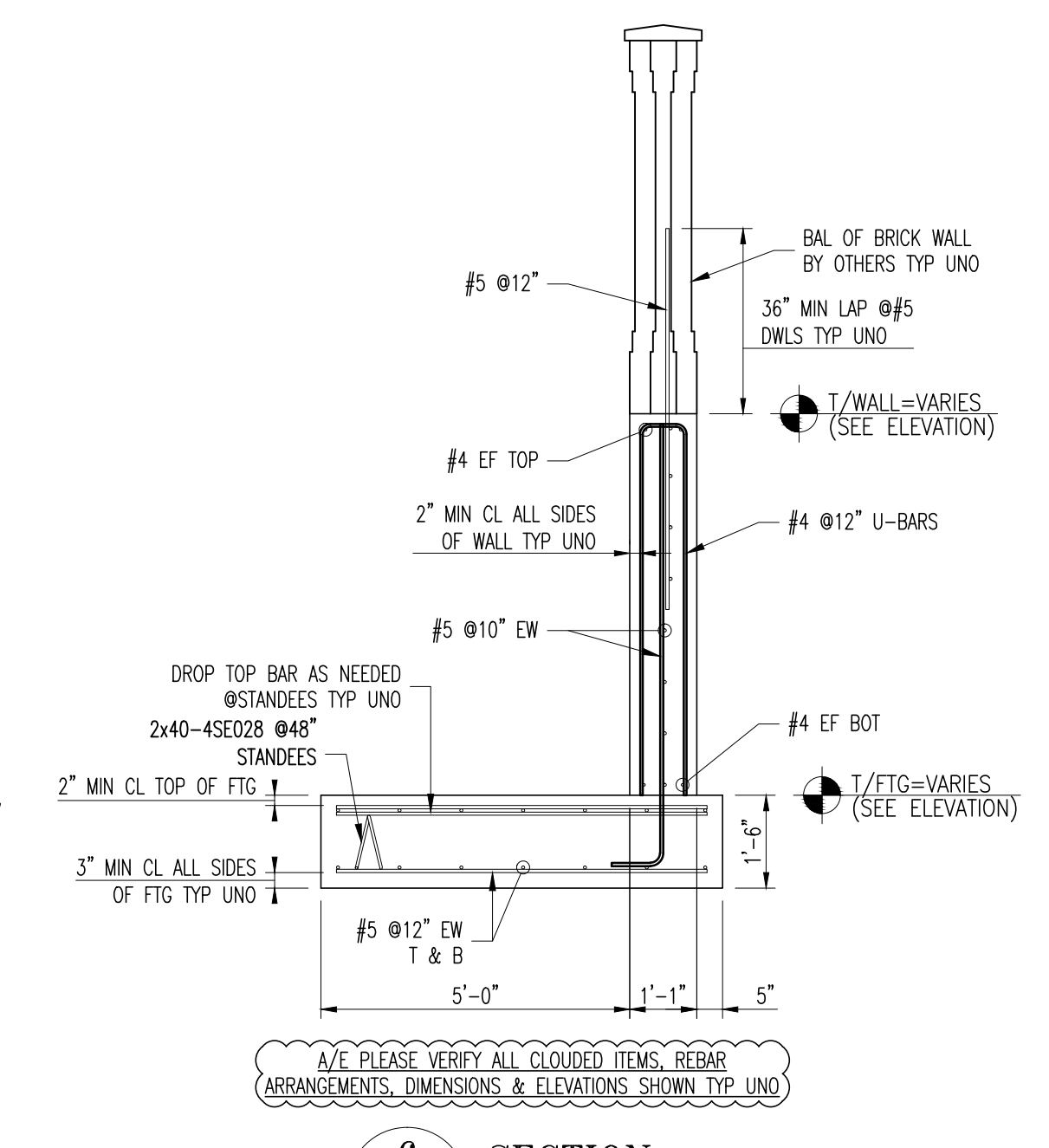
Revisions and Issue Record			
No.	Description	Date	By
0	FOR APPROVAL	11-7-16	BJE
THIS DRAWING IS NOT TO BE SCALED.			
ST. LOUIS, MO.			
HarrisRebar National Strength. Local Service. PHONE: 314-382-9855 FAX: 314-382-1711			
Project: WEBSTER ISB PHASE 1			
Drawing: EAST SITE WALLS- SECTIONS & DETAILS			
Customer: K C I Construction			
Engineer: CANNON DESIGN			
Date	Drawn	Chkd.	JOB No.
11-7-16	BJE		00916023
			Dwg. No.
			RSE002



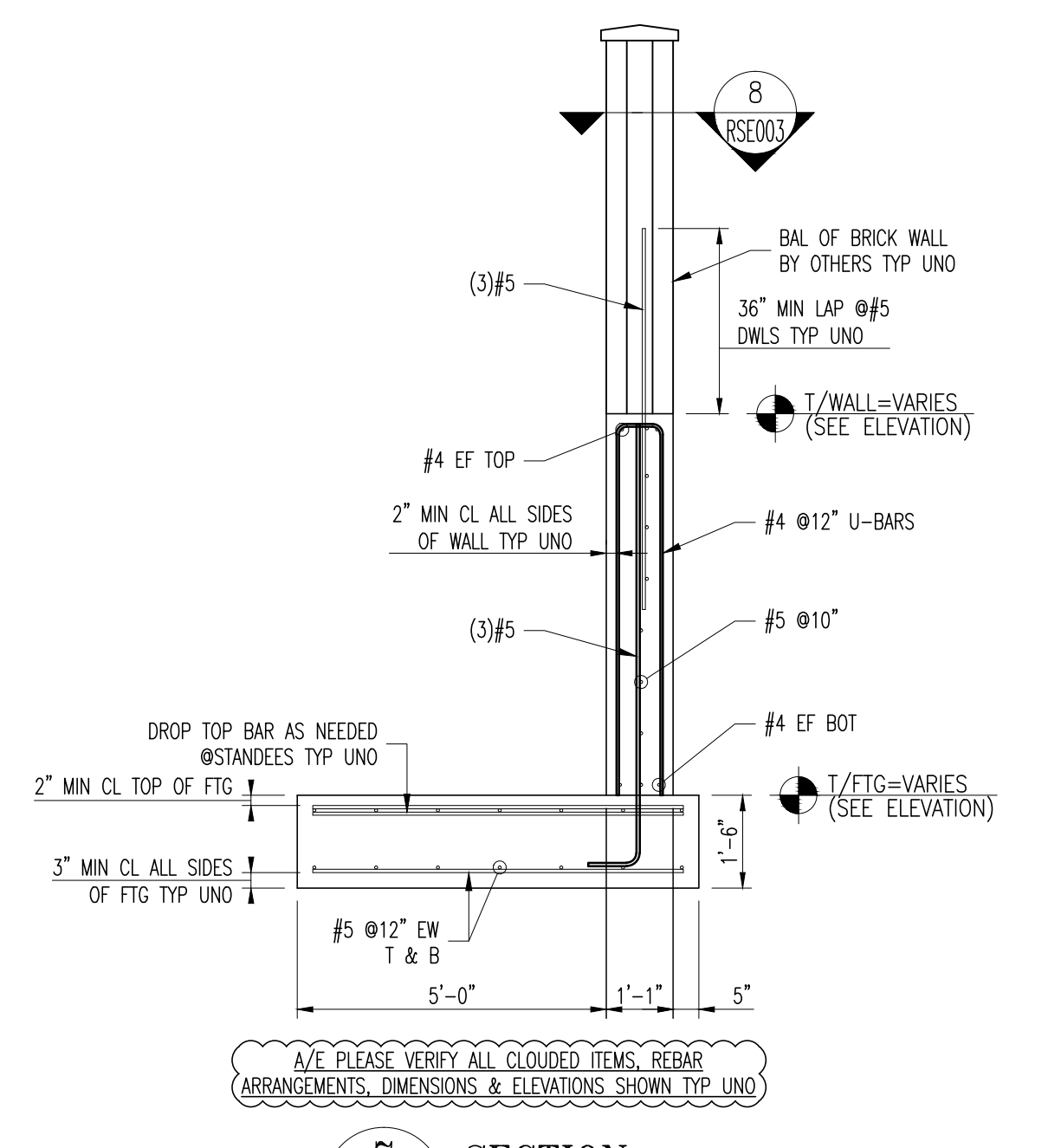
E5 ELEVATION
SCALE: 3/8"=1'-0"



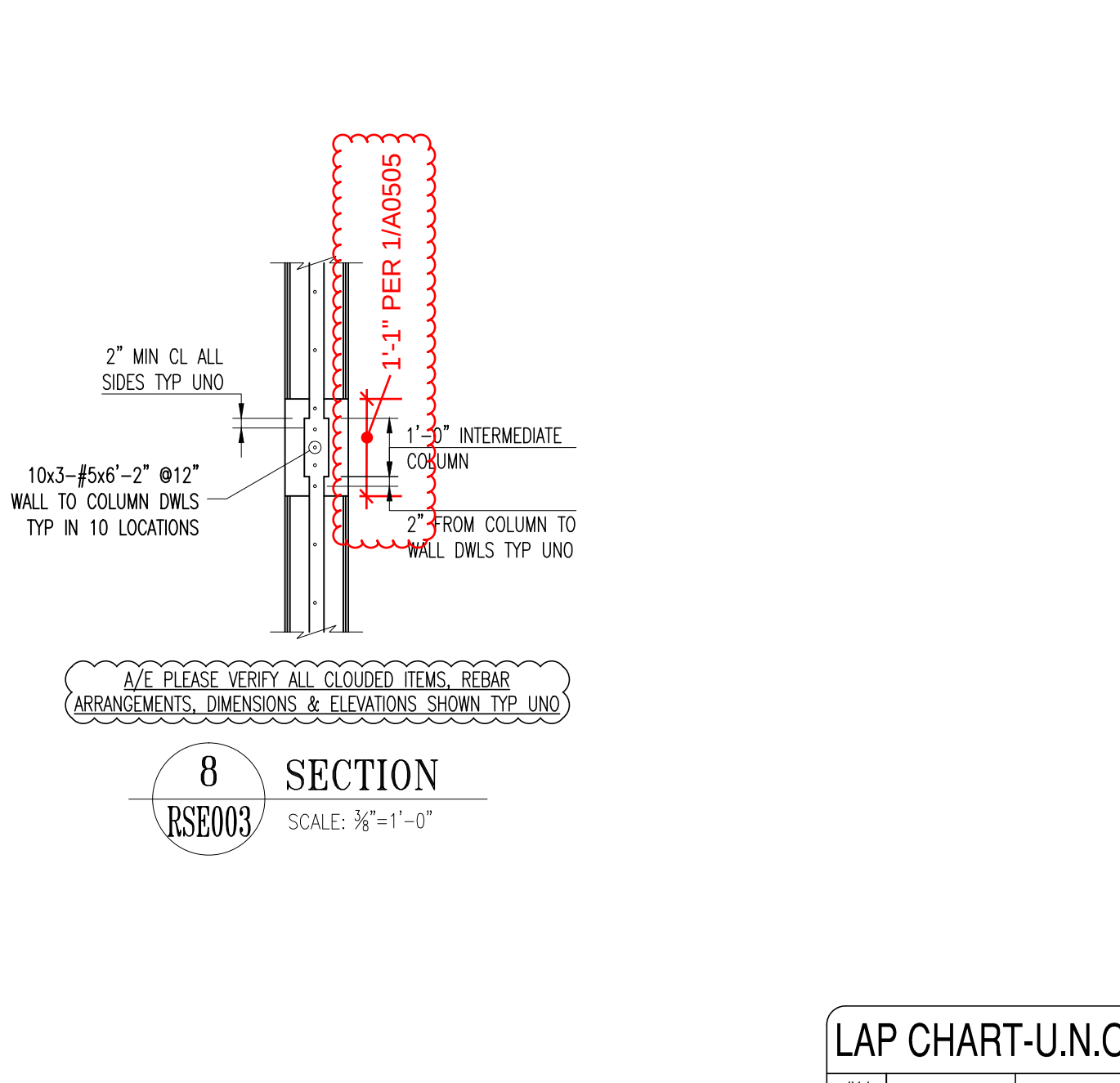
E6 ELEVATION
SCALE: 3/8"=1'-0"



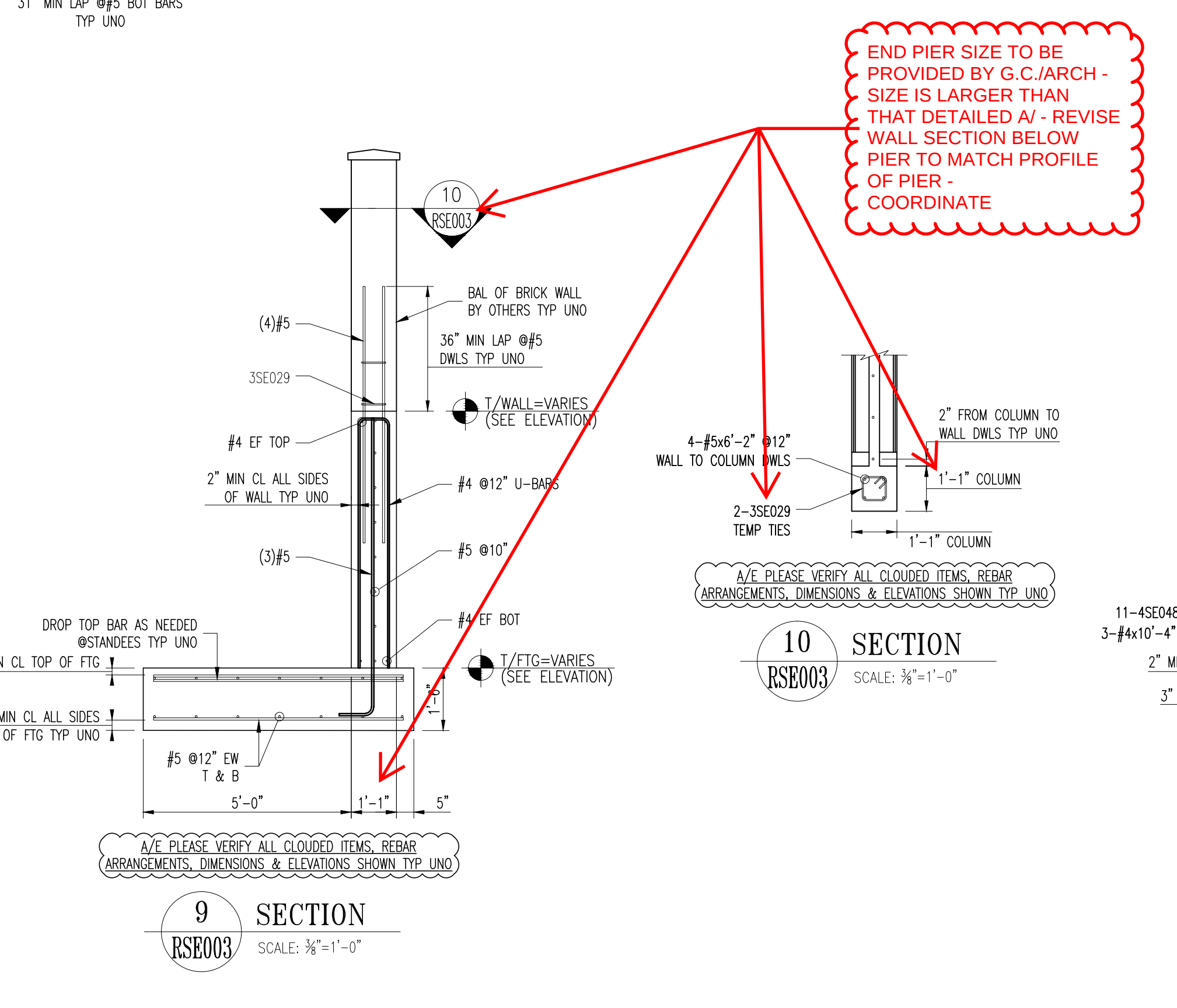
6 SECTION
SCALE: 3/8"=1'-0"



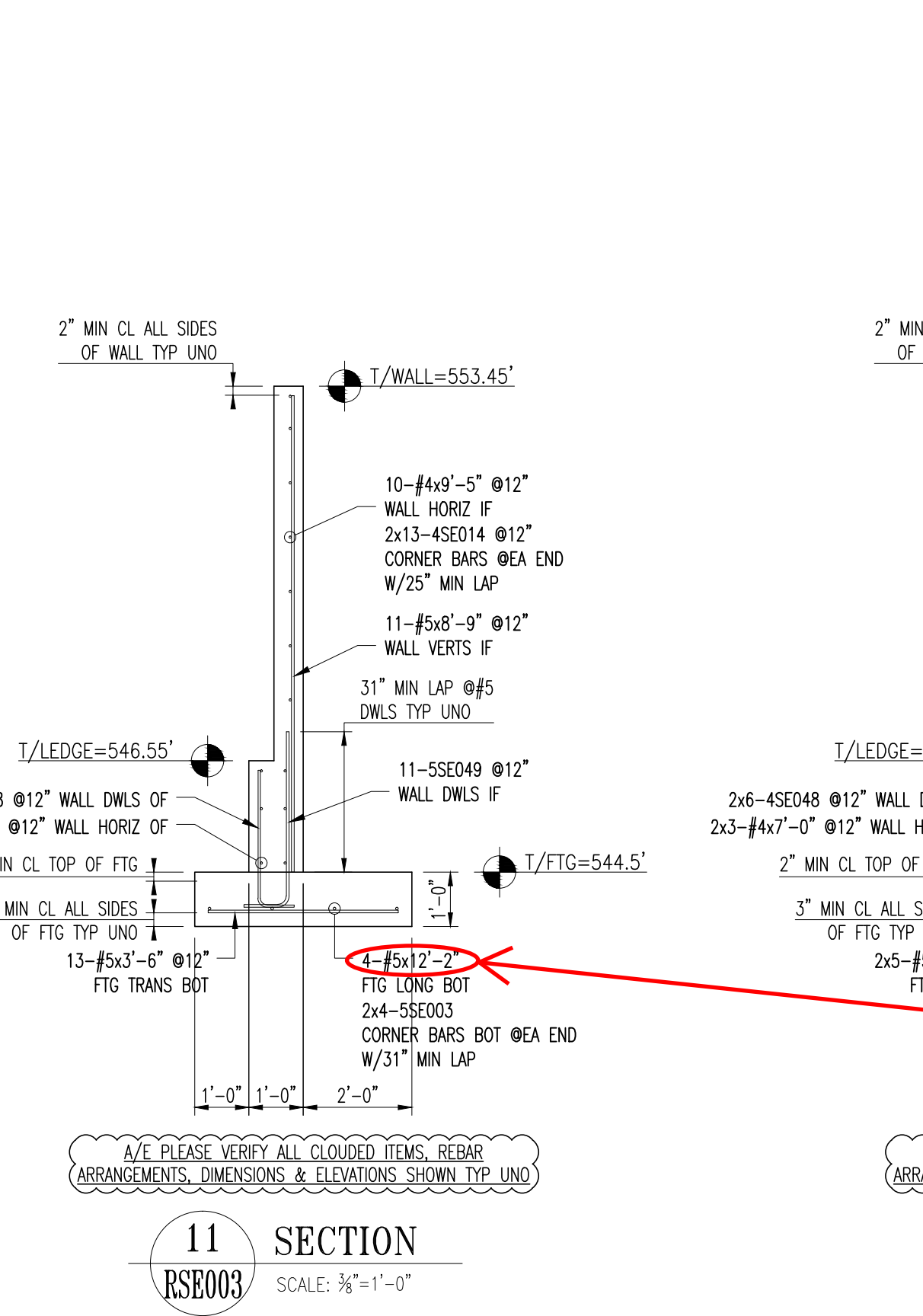
7 SECTION
SCALE: 3/8"=1'-0"



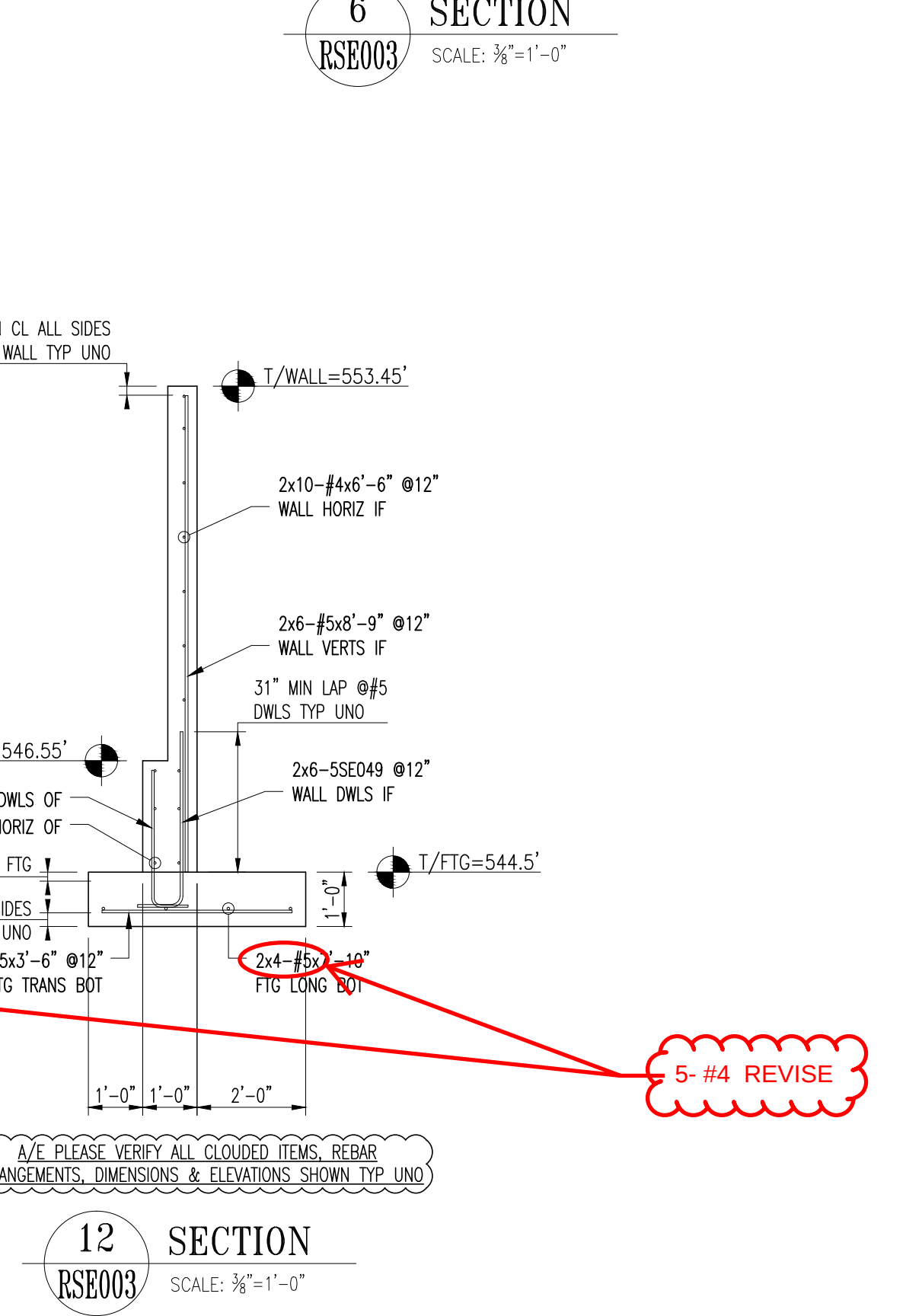
8 SECTION
SCALE: 3/8"=1'-0"



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



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



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



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

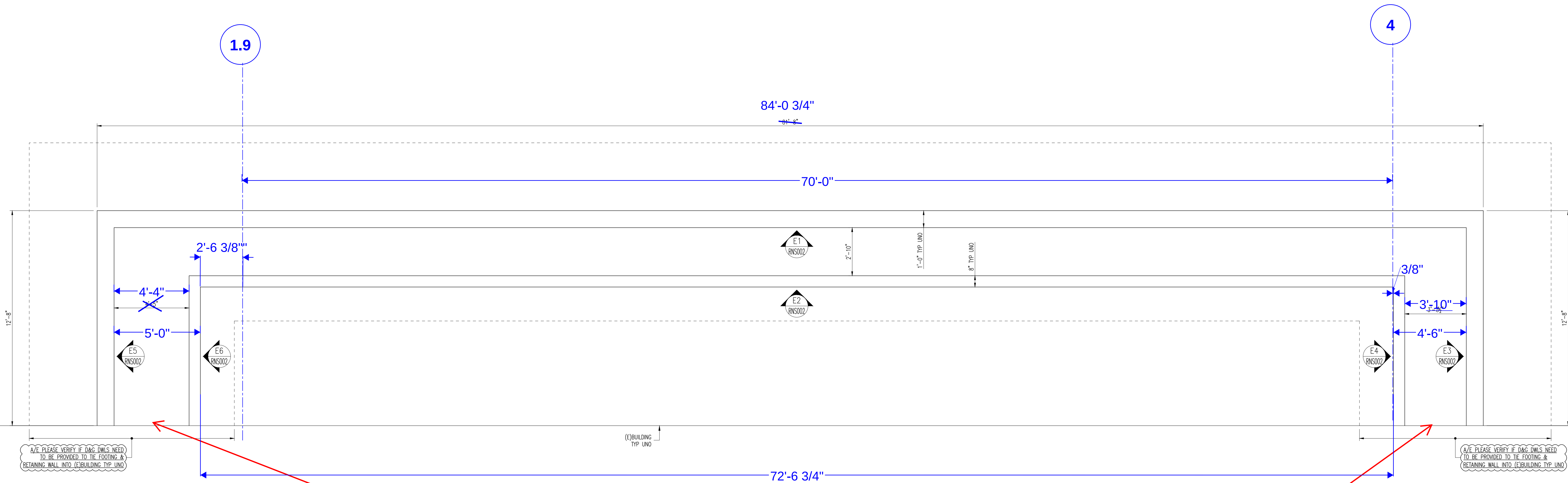
LAP CHART-U.N.O.	
#11	
#10	
#9	
#8	
#7	
#6	
#5	
#4	
#3	
SEE PLAN AND DETAILS	
*Top bars are horiz. bars with more than 12" of concrete cast below the bars.	

ALL MATERIAL ON THIS DRAWING SHALL BE ASTM A615 GRADE 60 U.N.O.

FOR THE BENDING DETAILS ON THIS SHEET, REFER TO DRAWING: RSE001

Revisions and Issue Record			
No.	Description	Date	By
0	FOR APPROVAL	11-7-16	BJE
The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.			
THIS DRAWING IS NOT TO BE SCALED.			
ST. LOUIS, MO.			
HarrisRebar National Strength. Local Service. PHONE: 314-382-9855 FAX: 314-382-1711			
Project: WEBSTER ISB PHASE 1			
Drawing: EAST SITE WALLS- SECTIONS & DETAILS			
Customer: K C I Construction			
Engineer: CANNON DESIGN			
Date	Drawn	Chkd.	JOB No.
11-7-16	BJE		00916023
			Dwg. No.
			RSE003

ADDITIONAL MARKUP IN BLUE 12.02. 16 - LSG



NORTH SITE WALLS PLAN
SCALE: 3/8"=1'-0"

FOOTING AND RETAINING WALLS DO NOT REQUIRE DOWELS TO BUILDING CONCRETE AT THESE LOCATIONS

Drawing Sheet : RNS001									
Bar No.	Size	Total Length	Type	X	Y	Z	W	V	U
405003	#4	4'-11" 25		1'-4"	0'-7 1/2"		0'-8"	0'-7 1/2"	1'-4"
505001	#5	6'-1" 1		0'-7"	2'-4"				0'-5"
405002	#4	4'-6" 1		0'-6"	4'-2"			0'-4"	
505004	#5	6'-10" 17		5'-5"	5'-5"				
505005	#5	5'-4" 17		2'-8"	2'-8"				
405006	#4	5'-6" 17		2'-9"	2'-9"				

25

Isometric view

A

B

C

D

1

Hook G optional

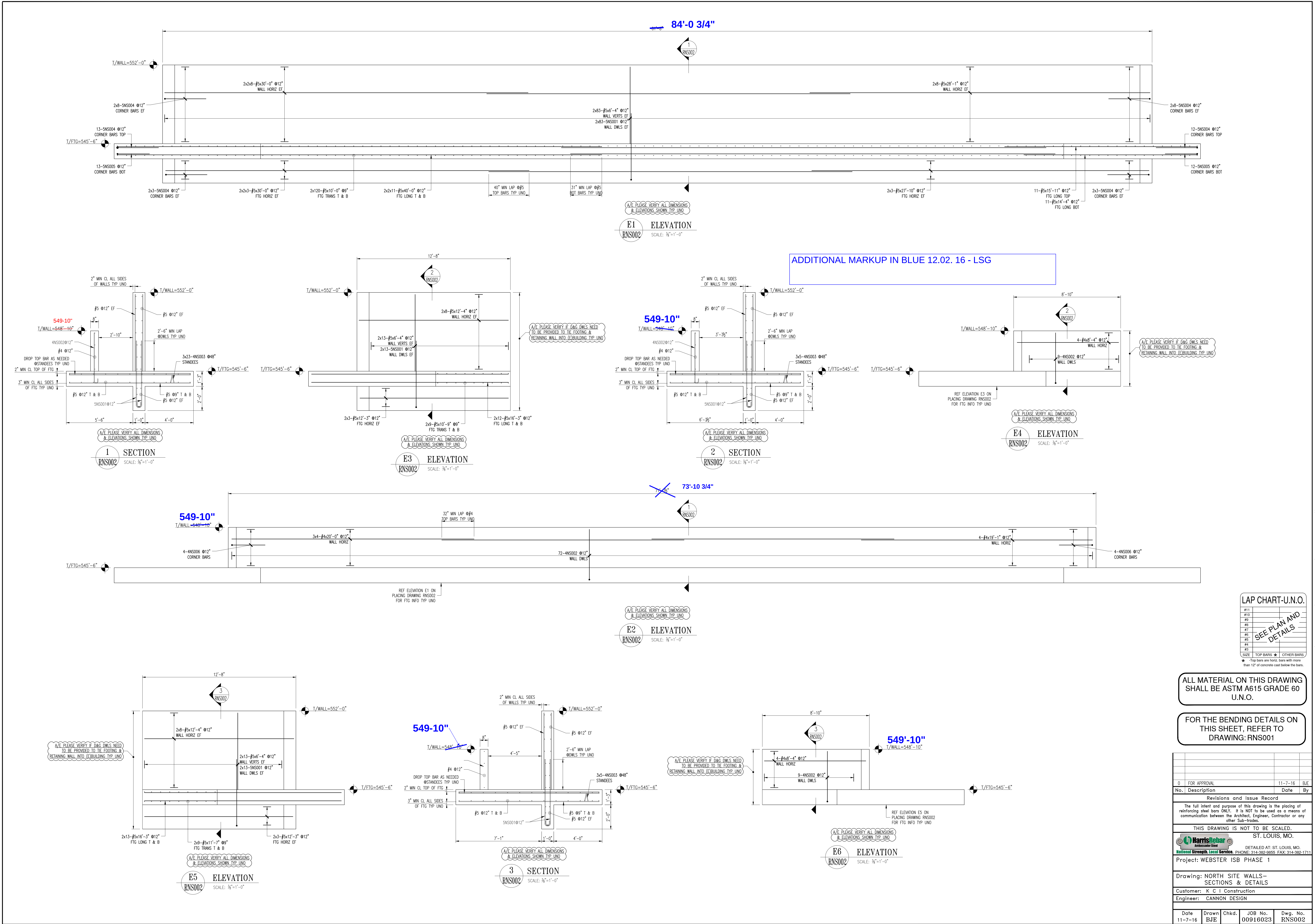
17

LAP CHART-U.N.O.	
#11	
#10	
#9	
#8	
#7	
#6	
#5	
#4	
#3	
SIZE TOP BARS ★ OTHER BARS	
★ Top bars are horiz. bars with more than 12" of concrete cast below the bars.	

ALL MATERIAL ON THIS DRAWING SHALL BE ASTM A615 GRADE 60 U.N.O.

FOR THE BENDING DETAILS ON THIS SHEET, REFER TO DRAWING: RNS001

Revisions and Issue Record			
No.	Description	Date	By
0	FOR APPROVAL	11-7-16	BJE
The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.			
THIS DRAWING IS NOT TO BE SCALED.			
ST. LOUIS, MO.			
HarrisRebar National Strength. Local Service. PHONE: 314-382-2855 FAX: 314-382-1711			
Project: WEBSTER ISB PHASE 1			
Drawing: NORTH SITE WALLS-PLAN VIEW			
Customer: K C I Construction			
Engineer: CANNON DESIGN			
Date 11-7-16	Drawn BJE	Chkd. BJE	JOB No. 00916023
			Dwg. No. RNS001



R:\Jobs-St. Louis\2016 St. Louis\00916023-Webster ISB Phase 1\00916023-RNS001_Rev 0_10242016_North Site Walls.dwg

LAP CHART-U.N.O.			
#11			
#10			
#9			
#8			
#7			
#6			
#5			
#4			
#3			
SIZE TOP BARS ★ OTHER BARS			
★ Top bars are horiz. bars with more than 12" of concrete cast below the bars.			

ALL MATERIAL ON THIS DRAWING SHALL BE ASTM A615 GRADE 60 U.N.O.

FOR THE BENDING DETAILS ON THIS SHEET, REFER TO DRAWING: RNS001

0	FOR APPROVAL	11-7-16	BJE	
No.	Description	Date	By	
Revisions and Issue Record				
The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.				
THIS DRAWING IS NOT TO BE SCALED.				
ST. LOUIS, MO.				
HarrisRebar National Strength. Local Service. PHONE: 314-382-2855 FAX: 314-382-1711				
Project: WEBSTER ISB PHASE 1				
Drawing: NORTH SITE WALLS- SECTIONS & DETAILS				
Customer: K C I Construction				
Engineer: CANNON DESIGN				
Date	Drawn	Chkd.	JOB No.	Dwg. No.
11-7-16	BJE		00916023	RNS002

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
☐ CRITICAL	

ITEM BEING SUBMITTED (check only one)

- | | | |
|---|--|--|
| ☐ Shop Drawings | ☐ Certification / Qualifications | ☐ Coordination Drawing |
| ☐ Samples (____ copies) | ☐ Record Documents | ☐ Calculations |
| ☐ LEED Submittal | ☐ Product Data | ☐ Schedules |
| ☐ Other _____ | ☐ O&M Manuals | |

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action
 ☐ Information Only
 ☐ Record

REMARKS OR DEVIATIONS

ARCH TO VERIFY WALL LENGTHS AND LAYOUT DIMENSIONS

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER	
RECEIVED DATE	
☐ A. No Exceptions Taken No further review of submittal is required.	
☐ B. Make Corrections Noted Incorporate corrections in work; resubmission is not required.	
☐ C. Revise and Resubmit Revise as noted, and resubmit for review.	
☐ D. Rejected Submittal is not in compliance with Contract Documents; provide new submittal.	
☐ E. For Record / Information Only Submittal was reviewed for Record / Information purposes only.	
☐ F. Not Required for Review Submittal is not required by Contract Documents and has not been reviewed.	

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW	
☐ NO EXCEPTION TAKEN	☒ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
☐ REJECTED	
☐ REVIEWED FOR INFORMATION ONLY	☐ REVISE AND RESUBMIT AS NOTED
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.	
DAVID MASON & ASSOCIATES, INC.	
REVIEW BY: JYW	DATE: 11.16.2016

**NOTE: ADDITIONAL MARKUPS IN BLUE ON PAGES 7 AND 8: 12.02.16 LSG
DUMPSTER ENCLOSURE TO BE REVISED BY ASI**

REVIEWED BY	DATE
-------------	------

JILL WALKER / DMA	11/16/2016
REVIEWED BY	DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0318

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 11/09/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Remaining Site Walls Reinforcement Shop Drawings

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☒ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☐ Other:	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		033000-030	1		11/09/2016	Remaining Site Walls Reinforcement Shop Drawings	Submitted

NOTES:

CC:

Signed: _____
Devin Gates



SUBMITTAL DATA

WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING WEBSTER GROOVES, MISSOURI

ARCHITECT	CANNON DESIGN
GENERAL CONTRACTOR	PARIC CORPORATION
SUBCONTRACTOR	KCI CONSTRUCTION

ITEM SUBMITTED	REBAR SHOP DRAWINGS – SITE WALLS – NORTH WEST WALLS AND NORTH EAST WALLS
SPEC SECTION	03 30 00 CAST IN PLACE CONCRETE
MANUFACTURER	HARRIS REBAR
DATE	11/09/16
SUBMISSION NO.	1

SHOP DRAWING / SUBMITTAL REVIEW

☒ REVIEWED ☐ REVIEWED WITH CHANGES NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED / RESUBMIT

This review is for general information with plans and specifications only. Approvals are subject to subcontractors performance within the confines of the contract documents. Review of dimensions will not serve to relieve the subcontractor of contractual responsibility for any deviation from the contract requirements.

By: Steve Teipe, Project Manager
KCI Construction, Inc.

10315 Lake Bluff Drive
St. Louis, MO 63123

Date:
11/09/2016