

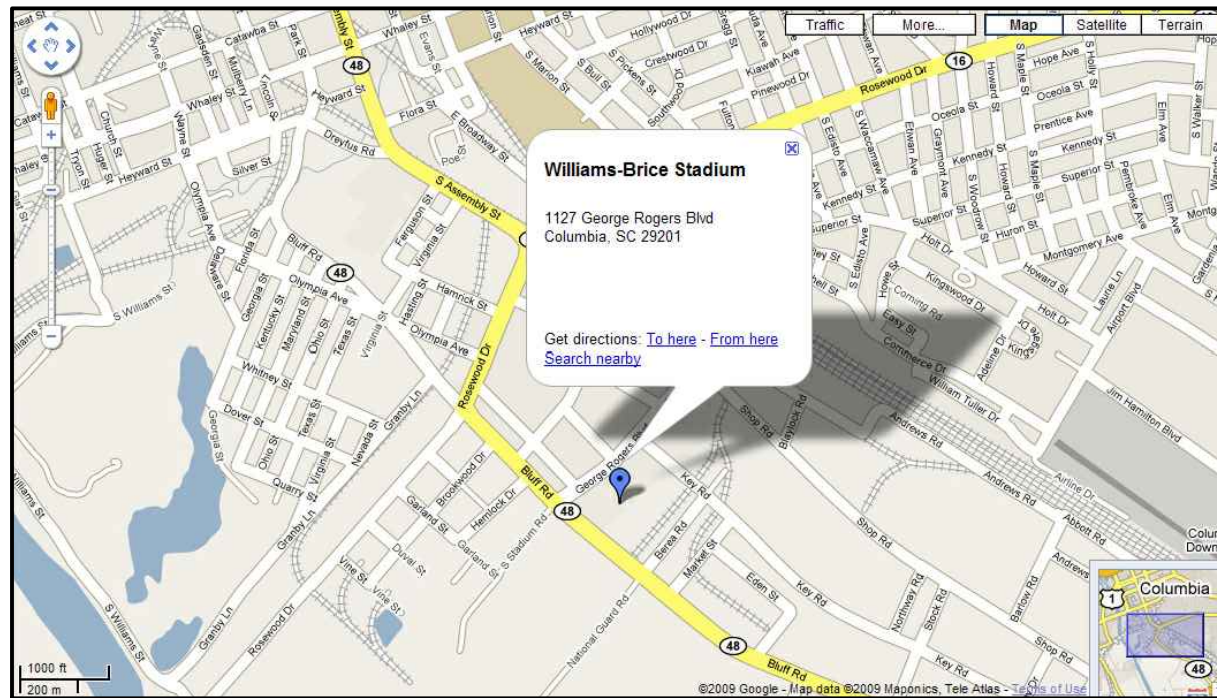
WILLIAMS BRICE STADIUM

MISCELLANEOUS CROSS BRACING

STRUCTURAL REPAIRS

CP50003003

University of South Carolina



VICINITY PLAN
NOT TO SCALE

ABBREVIATIONS				PROJECT CONTACTS		INDEX OF DRAWINGS					
A.C.T. ACOUSTICAL CEILING TILE ALUM. ALUMINUM BD BOARD BLKG BLOCKING C.J. CONTROL JOINT C.T. CERAMIC TILE CMU CONCRETE MASONRY UNIT CONC. CONCRETE CONT. CONTINUOUS CPT CARPET CR CLASSROOM DTL. DETAIL E.J. EXPANSION JOINT ELEC. ELECTRICAL EQ EQUAL EXIST/EXG EXISTING EXP EXPANSION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FF FINISH FLOOR FLR FLOOR FTG FOOTING GALV GALVANIZED GC GENERAL CONTRACTOR GR GUARDRAIL GWB GYPSUM WALL BOARD HM HOLLOW METAL HORIZ HORIZONTAL HR HANDRAIL I.D. INSIDE DIAMETER INSUL INSULATION NOTE: FOR ABBREVIATIONS NOT NOTED ABOVE CONTACT ARCHITECT.				MECH MECHANICAL MFR MANUFACTURER MB MARKER BOARD M.O. MASONRY OPENING N.I.C. NOT IN CONTRACT O.C. ON CENTER O.D. OUTSIDE DIAMETER OPNG OPENING P.B. PROMETHEAN BOARD PL PLATE PLUMB PLUMBING PR PAIR PT PRESSURE TREATED REINF REINFORCED REQ'D REQUIRED SCHED SCHEDULE SHT. SHEET SIM. SIMILAR SS STAINLESS STEEL STL. STEEL STOR. STORAGE TB TACKBOARD TEMP TEMPERED PT PRESSURE TREATED TYP. TYPICAL VCT VINYL COMPOSITION TILE VERT VERTICAL WD WOOD				JOB SITE CONTRACTOR'S OFFICE OWNER University of South Carolina ARCHITECT Jumper Carter Sease Architects, P.A. STRUCTURAL Kyzer & Timmerman Structural Engineers 803-791-1020 803-791-4511		T I O I TITLE, INDEX & ABBREVIATIONS S 1 OVERALL & NOTES S 2 GROUND LEVEL NORTH STANDS S 3 GROUND LEVEL EAST - A S 4 GROUND LEVEL EAST - B S 5 GROUND LEVEL EAST - C S 6 GROUND LEVEL SOUTH - A S 7 GROUND LEVEL SOUTH - B S 8 SECTIONS AND DETAILS S 9 SECTIONS AND DETAILS	

these drawings are the property of Jumper Carter Sease Architects, P.A.

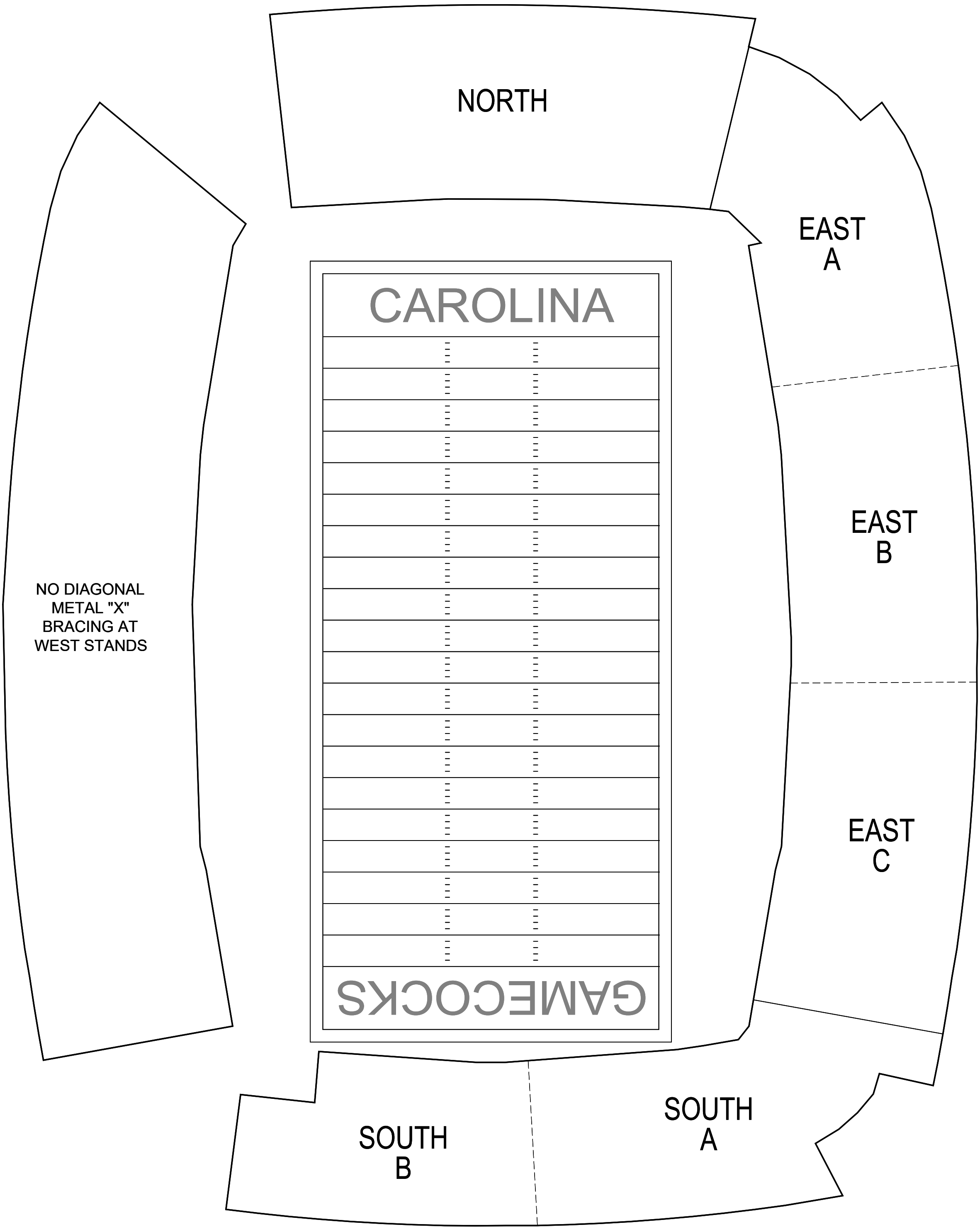
APPENDIX "G" - WILLIAMS BRICE STADIUM STRUCTURAL INSPECTION REPORT
SEPTEMBER 25, 2015
WO# CP00420508/FM00478864

THE INFORMATION CONTAINED IN THESE DOCUMENTS IS TO BE CONSIDERED AS AN ATTACHMENT TO THE WILLIAMS BRICE STADIUM ANNUAL INSPECTION REPORT DATED MAY 6, 2015.

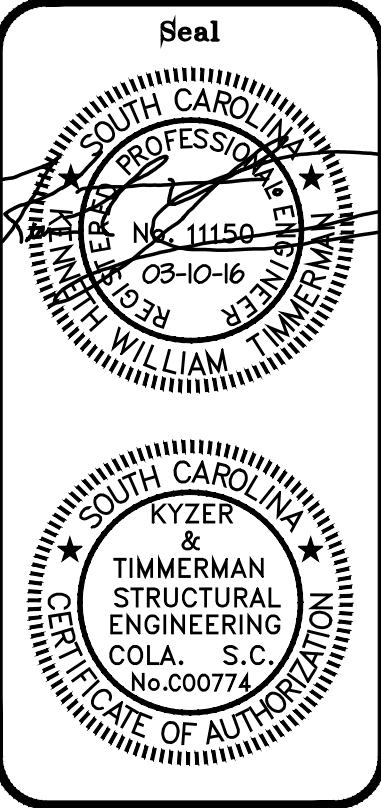
THE LOWER STANDS ALONG THE NORTH, EAST AND SOUTH SIDES OF THE STADIUM ARE PART OF THE ORIGINAL PHASES OF THE STADIUM'S CONSTRUCTION (1930's-1950's). DUE TO RENOVATIONS AND IMPROVEMENTS ALONG GROUND CONCOURSE LEVEL IN THESE AREAS, LATERAL SYSTEM "X" BRACING WAS MODIFIED AND REMOVED THROUGH THE YEARS TO ACCOMMODATE STORAGE, CONCESSIONS AND PEDESTRIAN FLOW.

AS PART OF THE 2015 ANNUAL STRUCTURAL INSPECTION REPORT, THE UNIVERSITY OF SOUTH CAROLINA HAS RETAINED KYZER & TIMMERMAN STRUCTURAL ENGINEERS TO RENDER AN OPINION AS TO THE BEST METHODOLOGY FOR REPLACING THE REMOVED/MODIFIED "X" BRACING.

CONTAINED IN THESE DOCUMENTS ARE THE RECOMMENDATIONS BY KYZER & TIMMERMAN TO BEST RESTORE THE LATERAL BRACING TO IT'S ORIGINAL CONDITION.



Revisions	
Revision	By



Job Title:
WILLIAMS BRICE STADIUM
2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS

SOUTH CAROLINA
COLUMBIA

KYZER & TIMMERMAN
STRUCTURAL ENGINEERS
560 Olive Drive, West Columbia, SC 29169 P: 803.797.4211 F: 803.791.4455

Drawing Title: OVERALL & NOTES	
Scale:	AS NOTED
Job Number:	15-123
Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016

Sheet Number

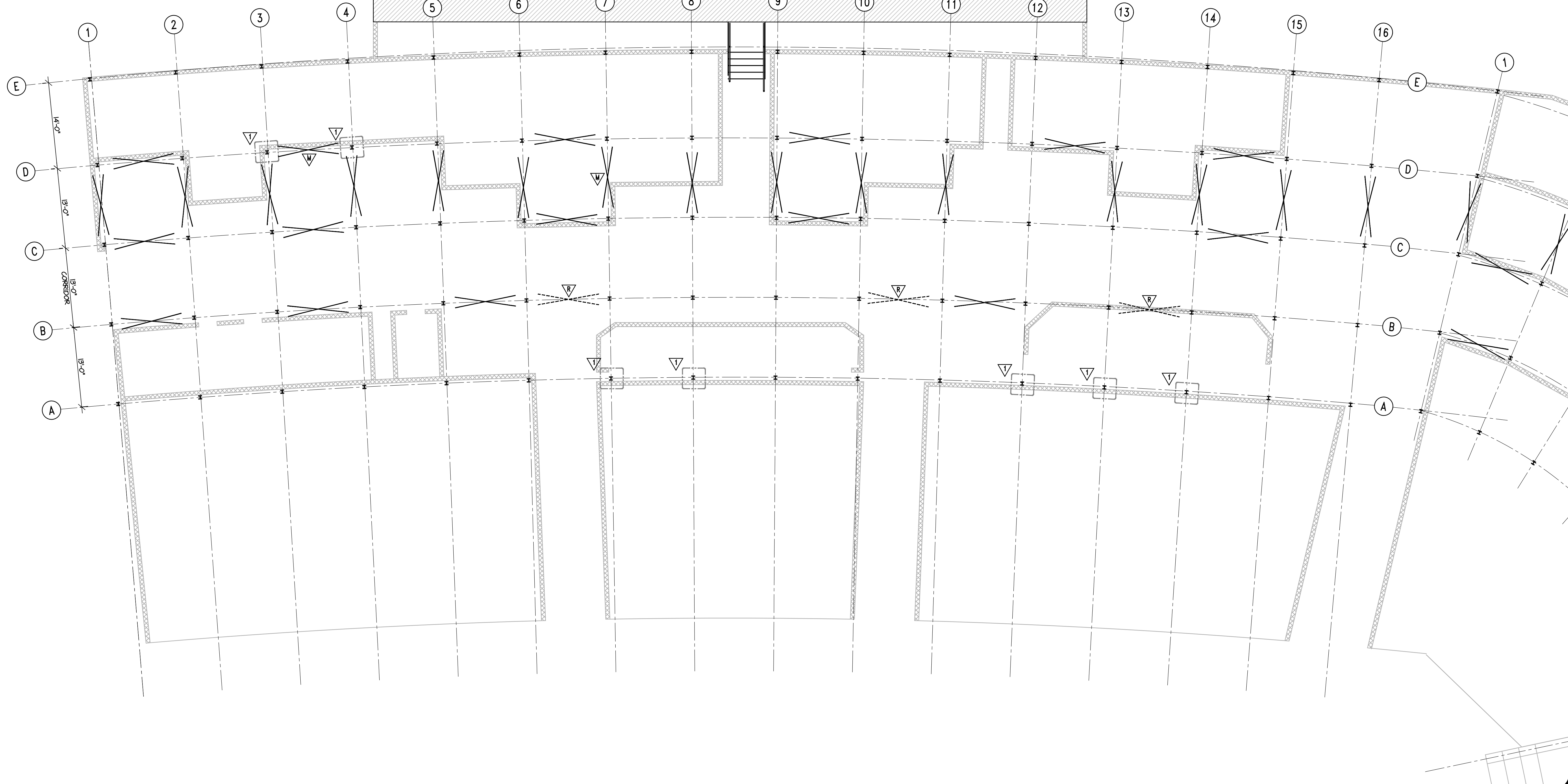
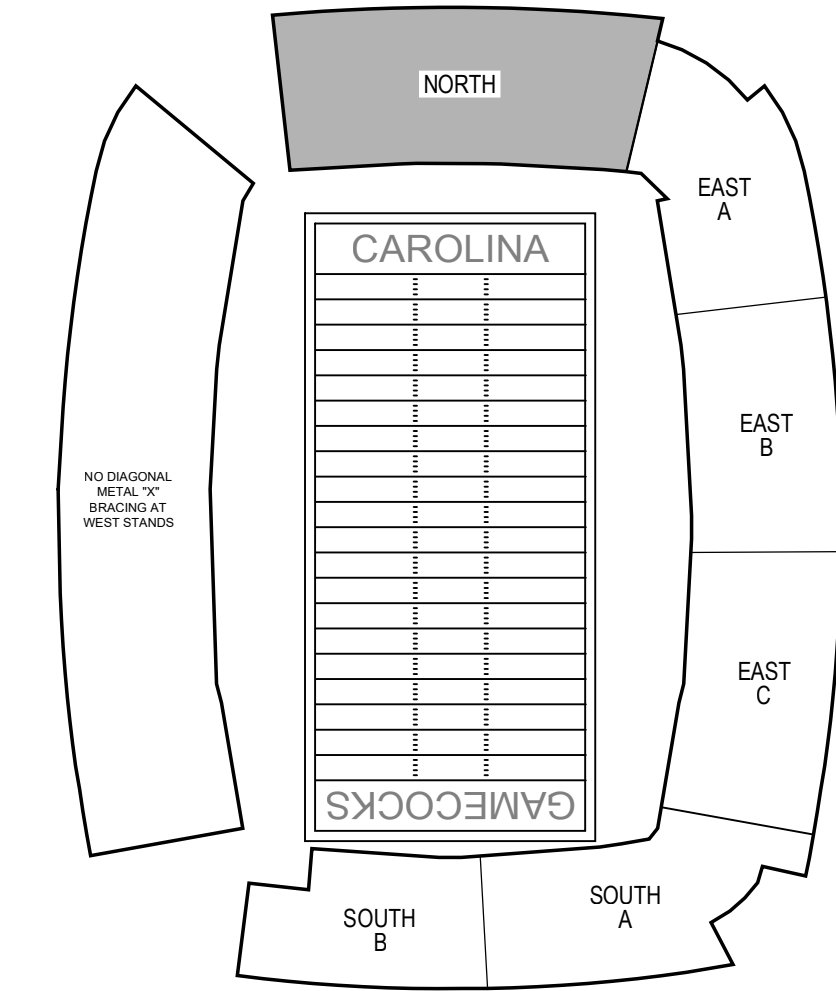
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Sheet 01 of 09

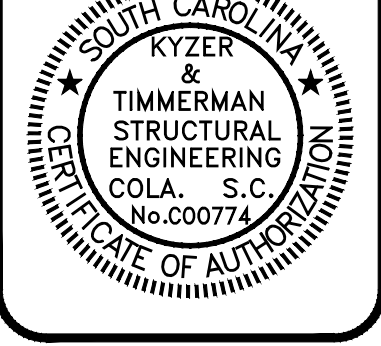
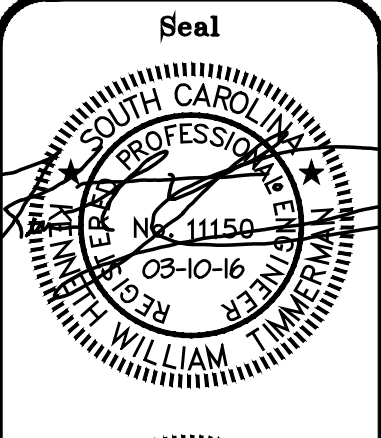
SHEET NOTES:

- DENOTES EXISTING "X" BRACING.
- DENOTES AREAS WHERE EXISTING "X" BRACING APPEARS TO BE MODIFIED
- DENOTES AREAS WHERE "X" BRACING APPEARS TO HAVE BEEN REMOVED
- NOTE: TYPICAL EXISTING "X" BRACING MEMBERS ARE 2" x 2" x 3/16" STEEL ANGLES
- DENOTES LOCATION OF NEW "X" BRACING - SEE TYPICAL DETAIL.
- ATTACH EXISTING COLUMN TO EXISTING CMU WALL - SEE TYPICAL DETAIL.

FLOYD FOOTBALL BUILDING



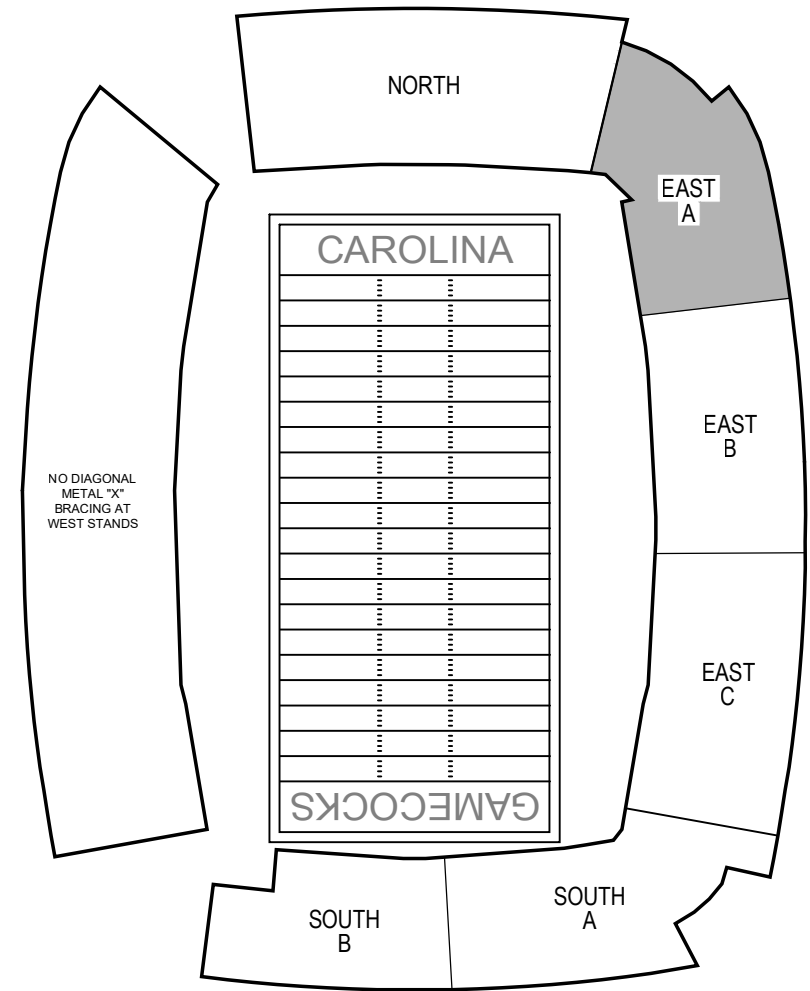
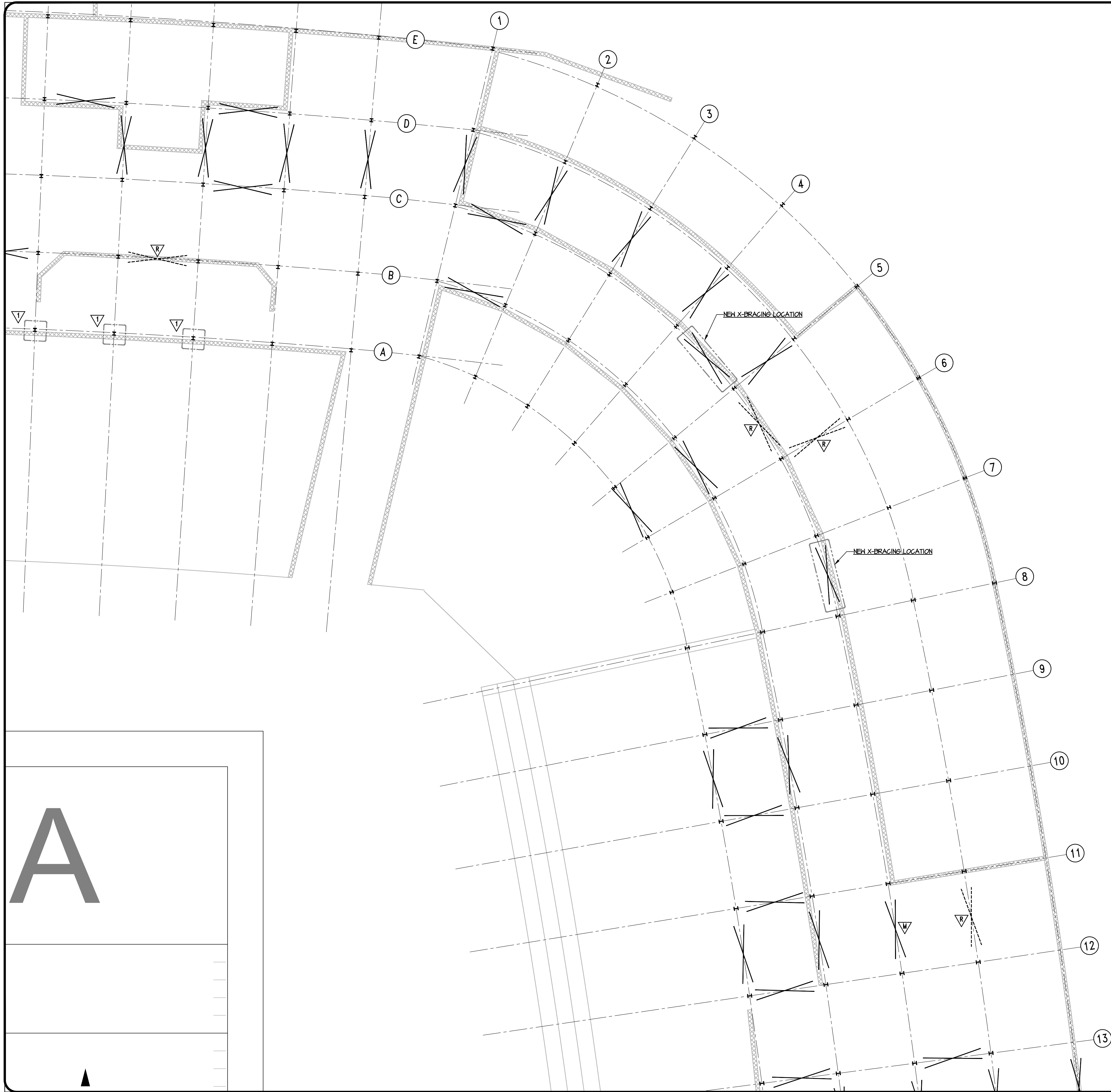
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Revision	By



Job Title:
WILLIAMS BRICE STADIUM
2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS
COLUMBIA
SOUTH CAROLINA

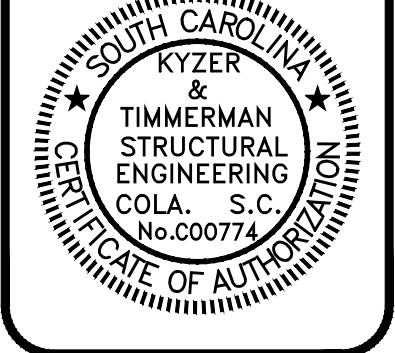
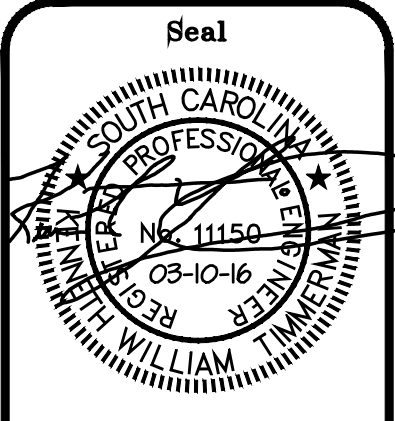


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Scale:	AS NOTED
Job Number:	15-123
Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016



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Revisions	
Revision	By

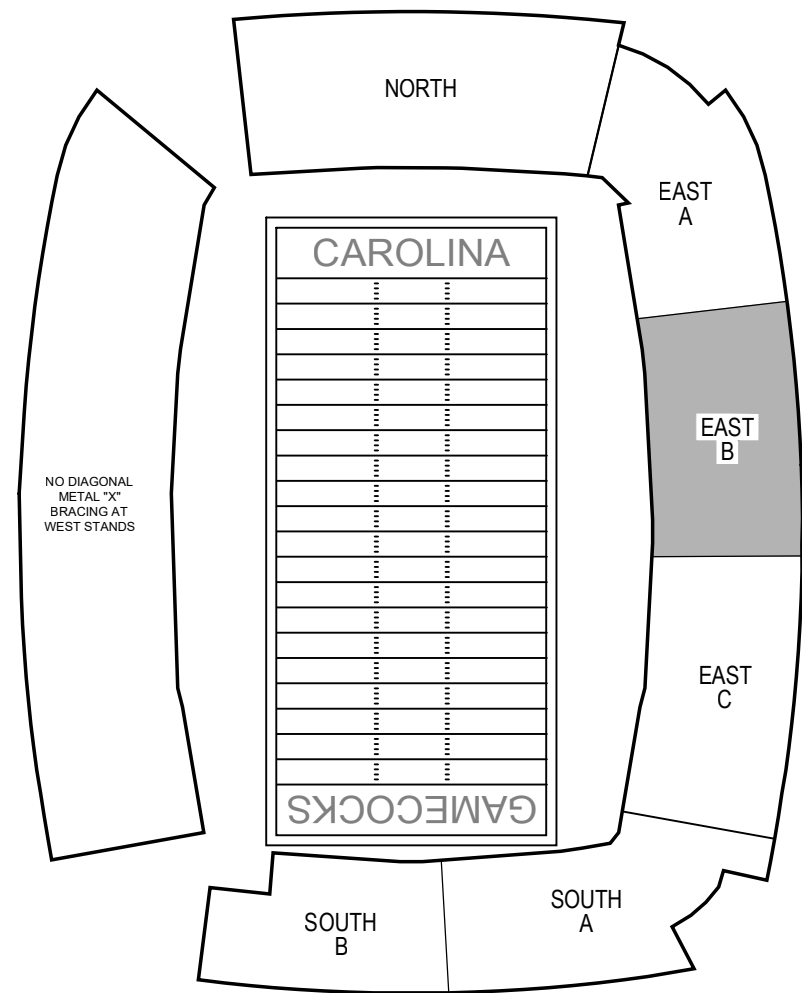
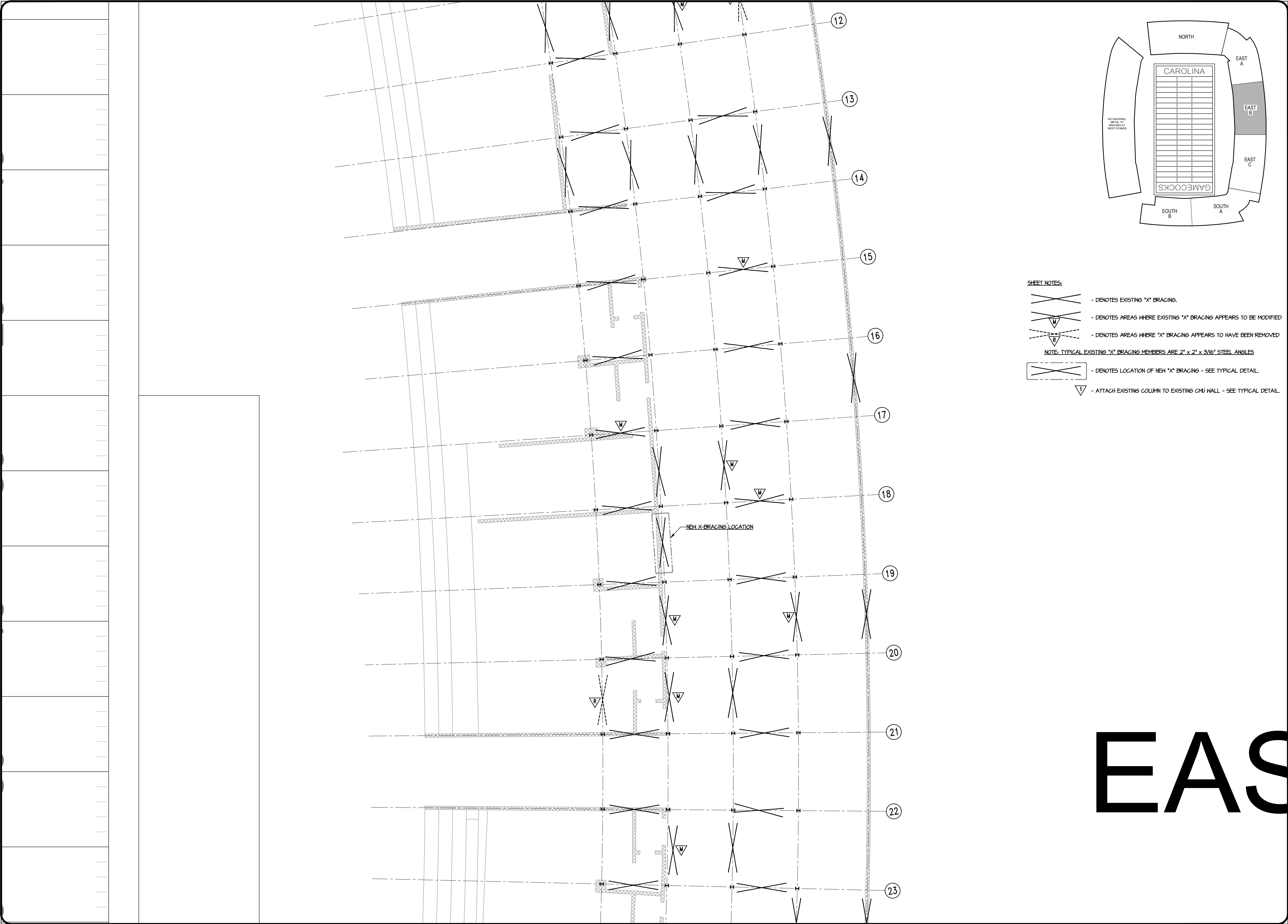


Job Title:	WILLIAMS BRICE STADIUM	SOUTH CAROLINA
2015 STRUCTURAL INSPECTION REPORT		
APPENDIX G - "X" BRACING RECOMMENDATIONS		
	COLUMBIA	



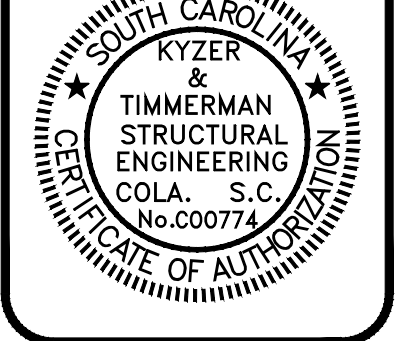
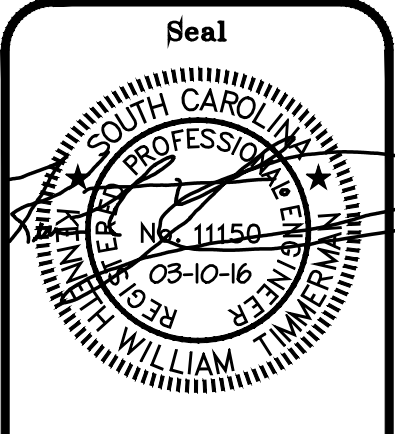
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Scale:	AS NOTED
Job Number:	15-123
Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016

Sheet Number
S3
Sheet 03 of 09



- SHEET NOTES:**
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Revisions	
Revision	By



Job Title:
WILLIAMS BRICE STADIUM
2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS
SOUTH CAROLINA
COLUMBIA

KYZER & TIMMERMAN
STRUCTURAL ENGINEERS
565 Oak Drive, West Columbia, SC 29169 P: 803.737.4511 F: 803.791.4455

Drawing Title: GROUND LEVEL EAST-B	
Scale:	AS NOTED
Job Number:	15-123
Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016

Sheet Number
S4
Sheet 04 of 09

G

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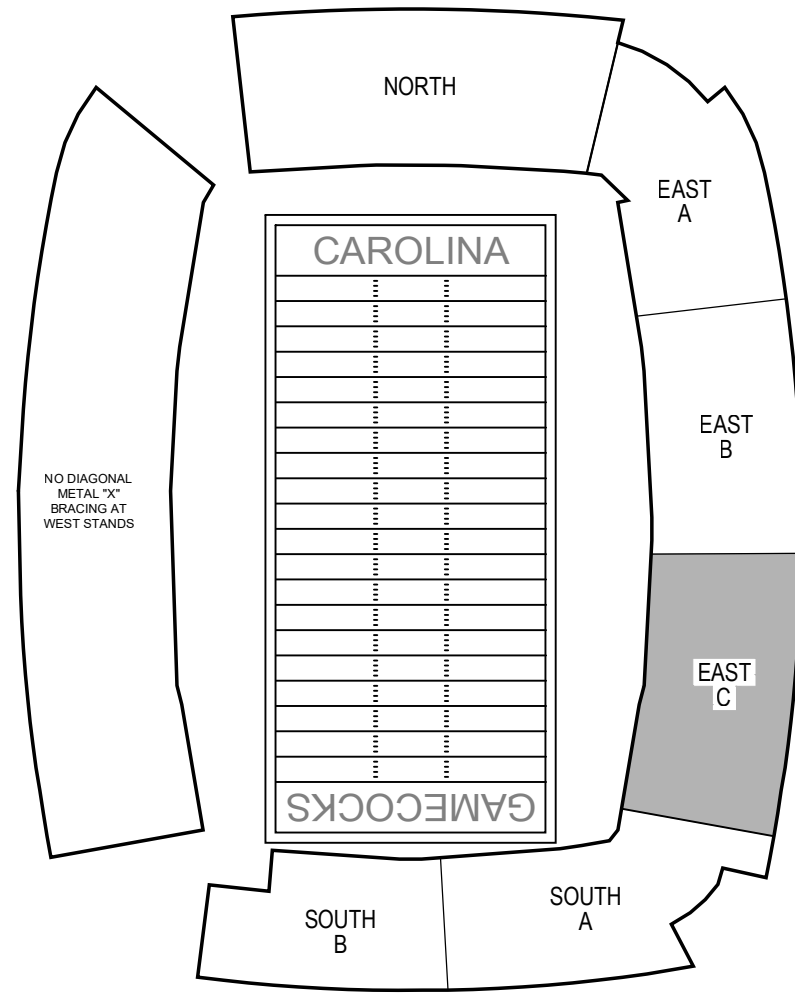
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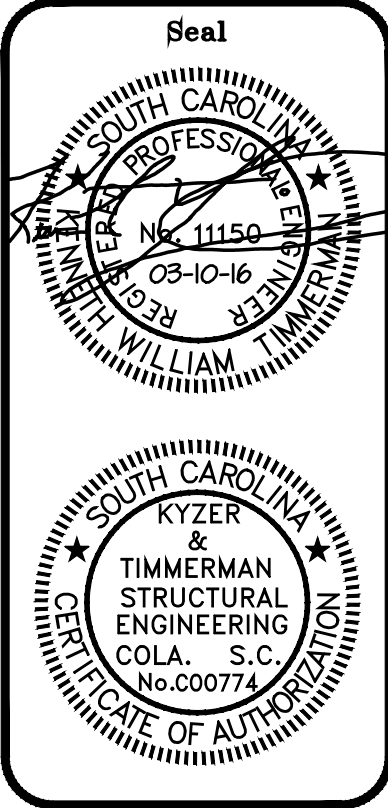


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Revision	By



Job Title:
WILLIAMS BRICE STADIUM
2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS
SOUTH CAROLINA
COLUMBIA

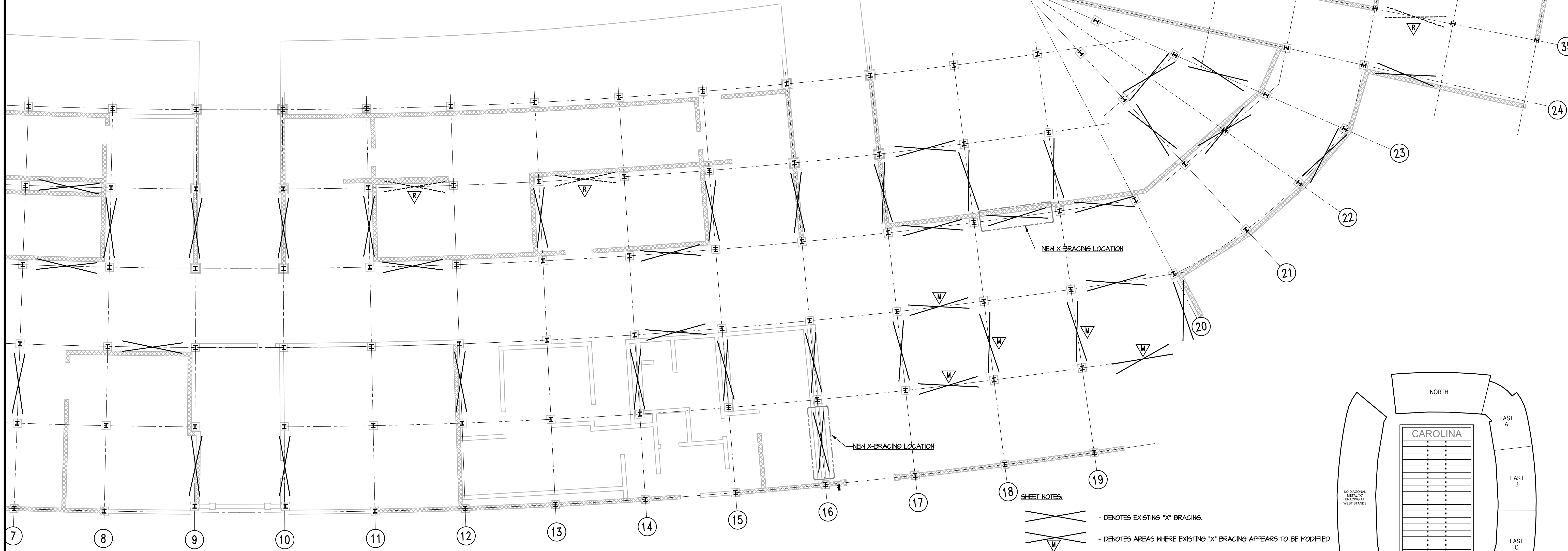
KYZER & TIMMERMAN
STRUCTURAL ENGINEERS
550 Olive Drive, West Columbia, SC 29169 P: 803.737.4011 F: 803.731.1455

Drawing Title: GROUND LEVEL EAST -C	
Scale:	AS NOTED
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Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016

Sheet Number
S5
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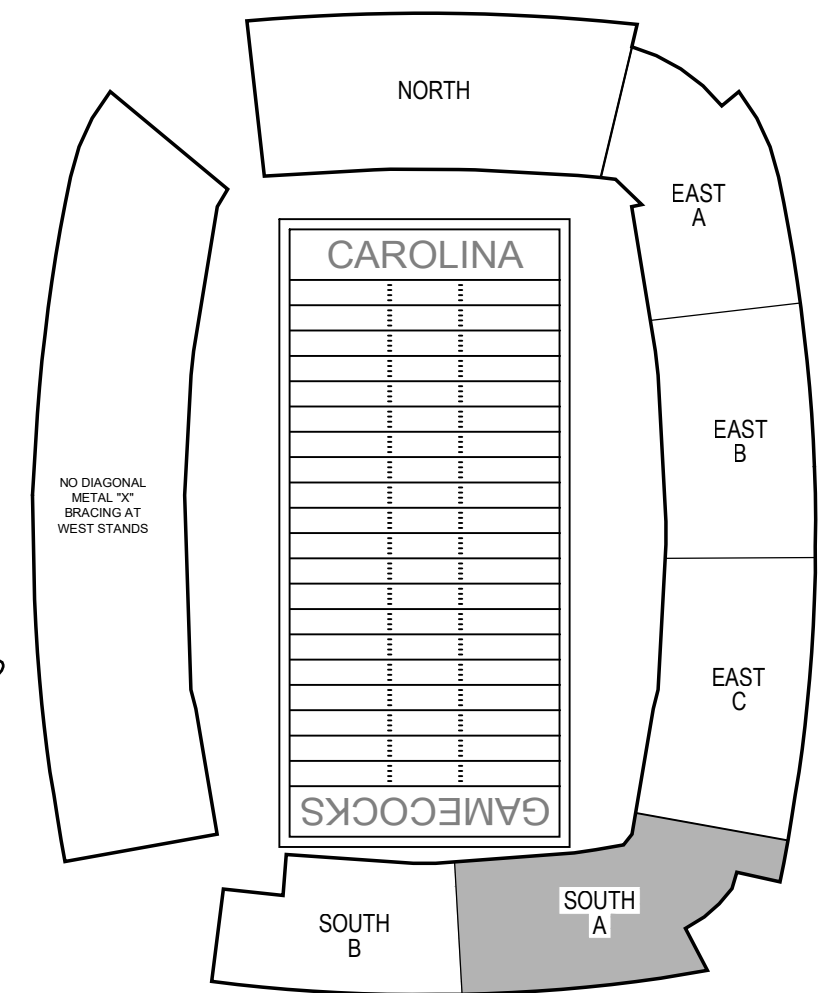
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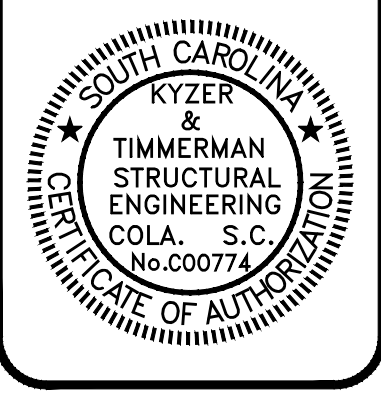
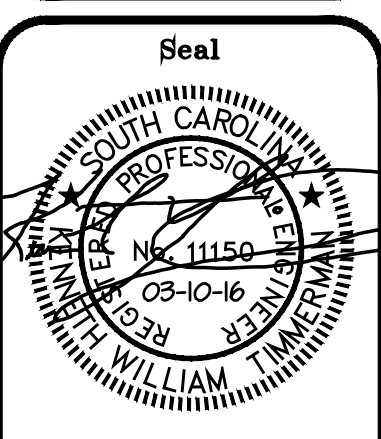


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Revision	By



Job Title:
WILLIAMS BRICE STADIUM
2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS
SOUTH CAROLINA
COLUMBIA



Drawing Title:
GROUND LEVEL
SOUTH - A

Scale: AS NOTED

Job Number: 15-123

Designed By: DWS

Drawn By: NDJ

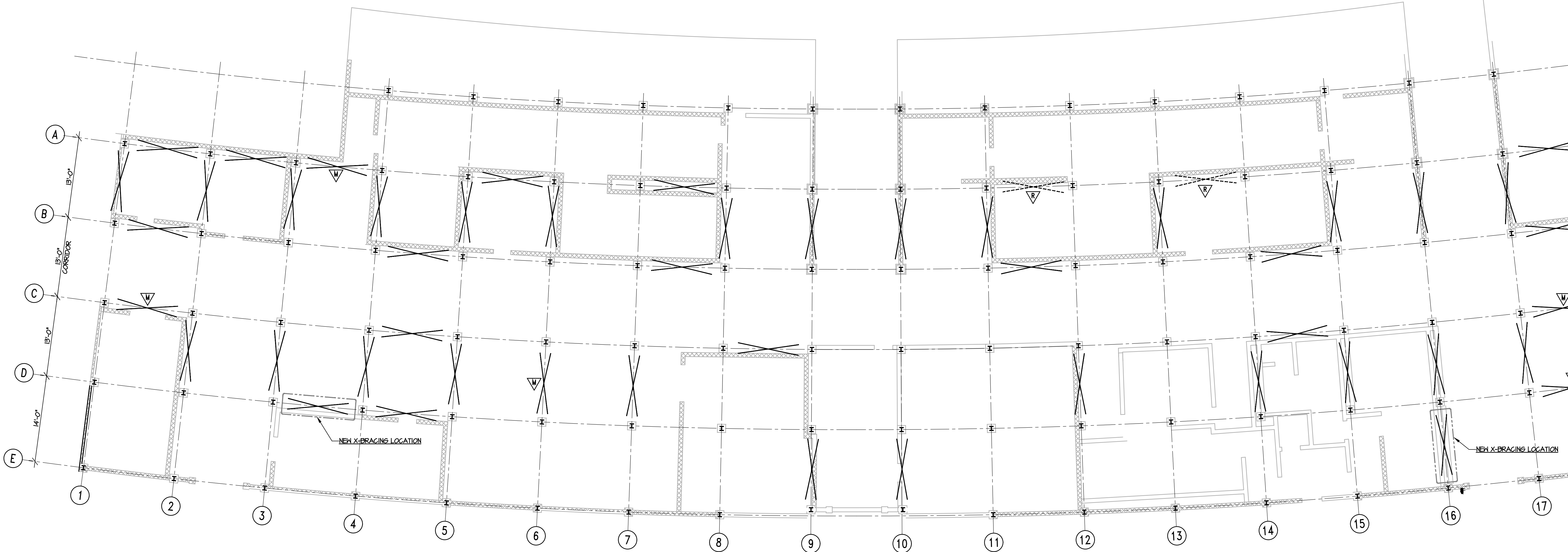
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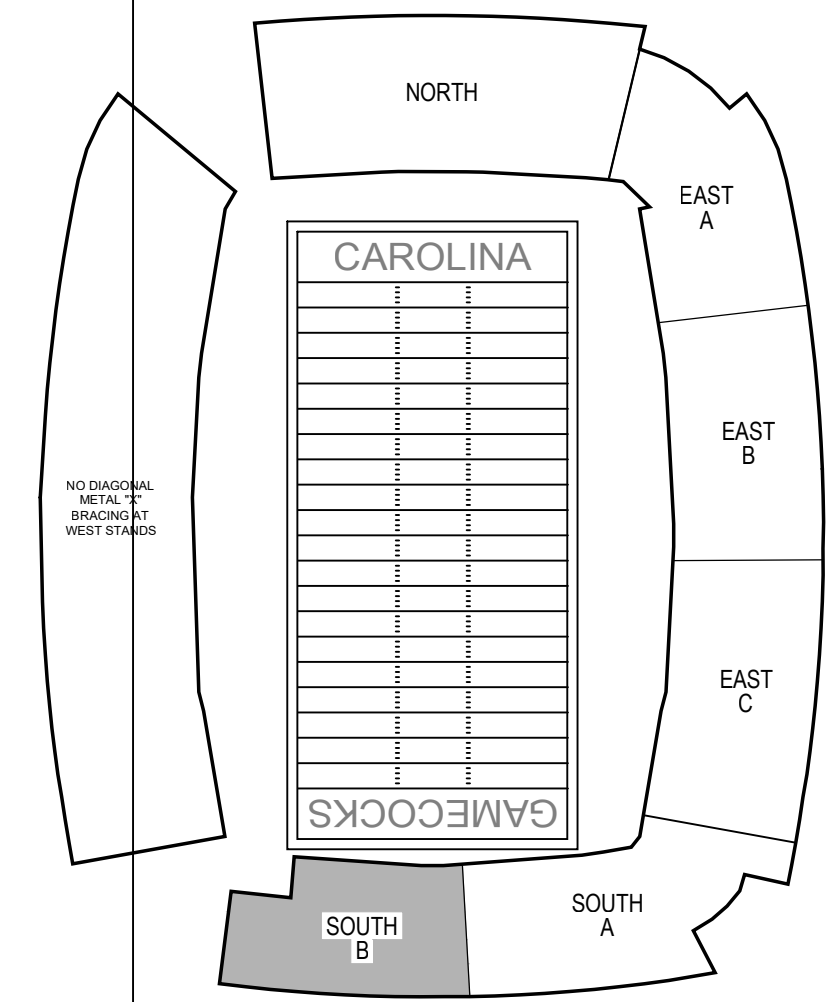
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Sheet 06 of 09

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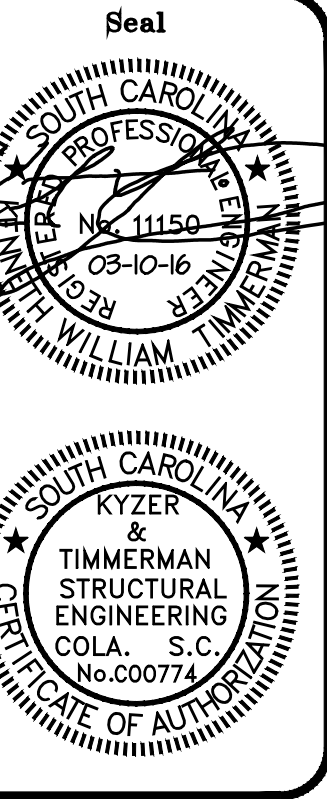
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GAMECOCKS



Revisions	
Revision	By



Job Title:

WILLIAMS BRICE STADIUM

2015 STRUCTURAL INSPECTION REPORT

APPENDIX G - "X" BRACING RECOMMENDATIONS

COLUMBIA

SOUTH CAROLINA

KYZER & TIMMERMAN

STRUCTURAL ENGINEERS

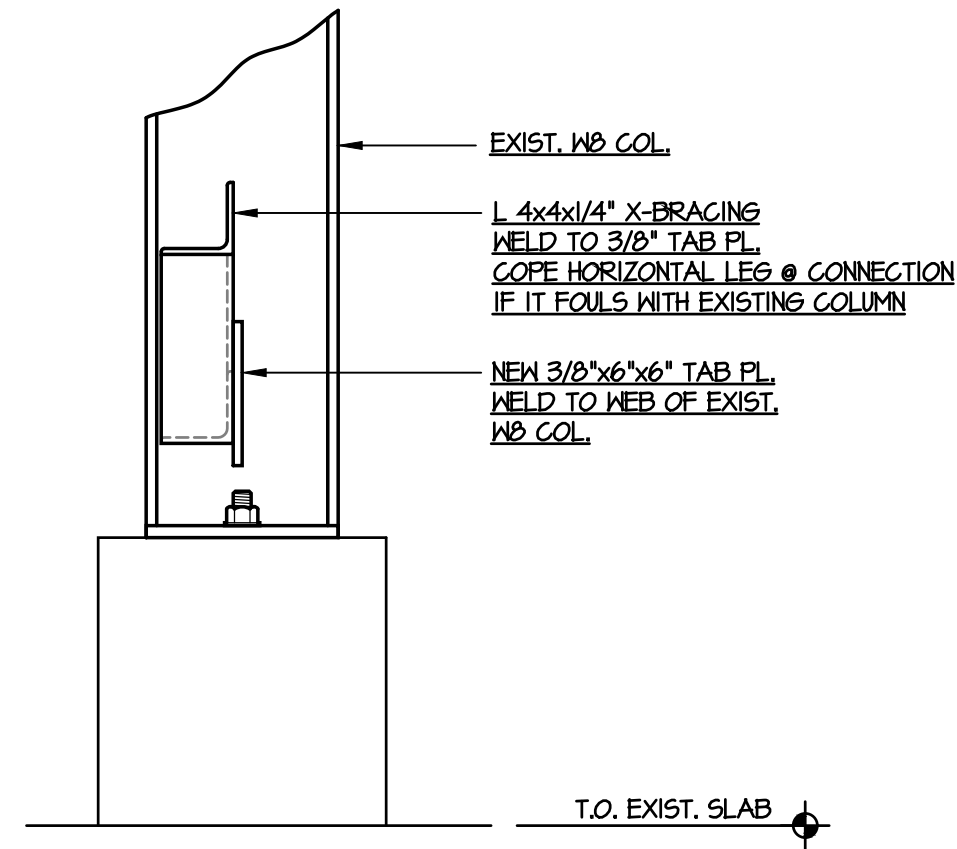
565 Olive Drive, West Columbia, SC 29169 P: 803.737.4211 F: 803.731.1422

Drawing Title:	
GROUND LEVEL	
SOUTH - B	
Scale:	AS NOTED
Job Number:	15-123
Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016

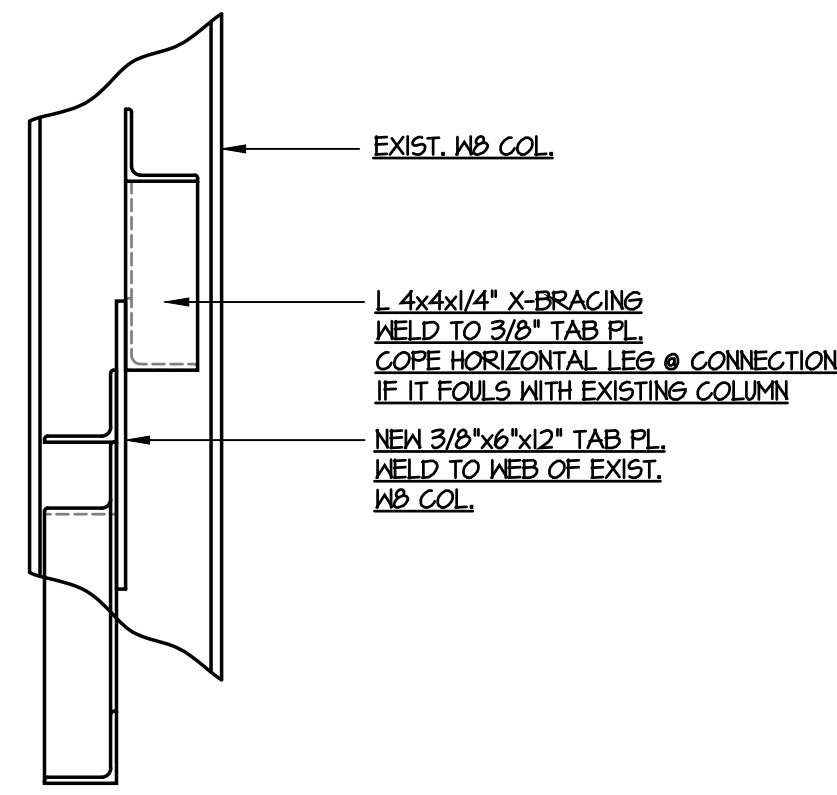
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S7

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DETAIL
SCALE: 1 1/2\"/>



DETAIL
SCALE: 1 1/2\"/>

STRUCTURAL /GENERAL NOTES:

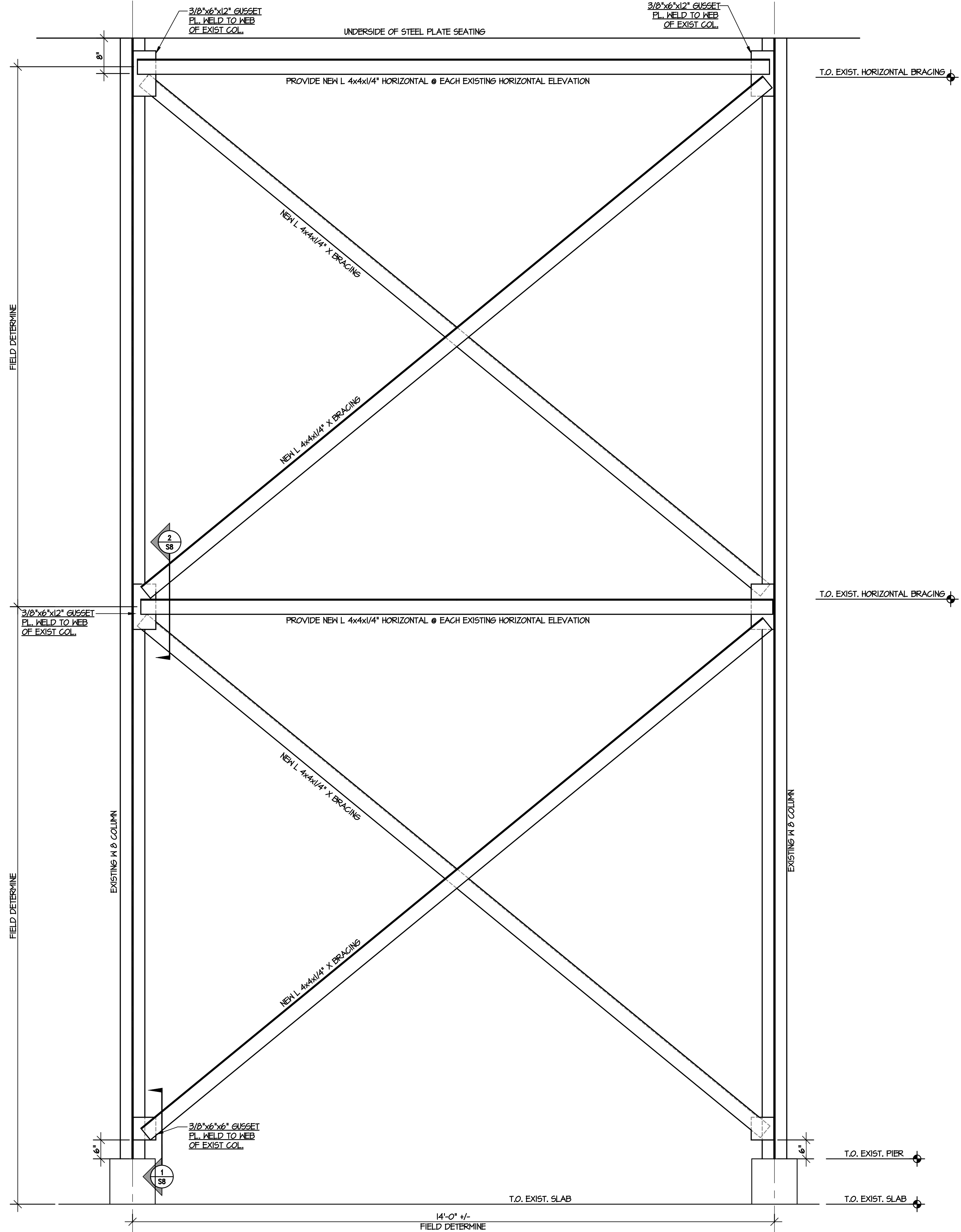
- THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF KYZER & TIMMERMAN STRUCTURAL ENGINEERS. THESE STRUCTURAL DRAWINGS ARE PROTECTED THROUGH THE U.S. GOVERNMENT COPYRIGHT LEGISLATION. THE DETAILS AND NOTES INDICATED IN THESE DRAWINGS ARE PART OF AN OVERALL COPYRIGHT REGISTERED WITH THE UNITED STATES COPYRIGHT OFFICE, THE LIBRARY OF CONGRESS COPYRIGHT 2015 - KYZER & TIMMERMAN STRUCTURAL ENGINEERS. (803)791-4511/ 791-4522 FAX
- EXISTING BUILDINGS/STRUCTURES: DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS WILL REQUIRE FIELD VERIFICATION. DEPENDING ON FIELD CONDITIONS BEYOND THE DESIGNER'S CONTROL. SOME STRUCTURAL/ARCHITECTURAL SECTIONS AND/OR DETAILS WILL REQUIRE MODIFICATION. THE CONTRACTOR SHALL INCLUDE THE ALLOWANCE NECESSARY TO PERFORM THESE MODIFICATIONS AND ASSOCIATED WORK. THE CONTRACTOR PERFORMING ALL WORK IS EXPECTED TO HAVE AT LEAST 5 YEARS EXPERIENCE IN PROJECTS OF THIS TYPE, SIZE AND SCOPE OF WORK. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO OBSERVE THE FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS FOR ACCURACY.
- QUESTIONS RELATING TO THESE STRUCTURAL DRAWINGS MAY BE SUBMITTED IN WRITING, THROUGH THE ARCHITECT OR PRIME PROFESSIONAL TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE COPIED AT:

KYZER & TIMMERMAN STRUCTURAL ENGINEERS
580 CHRIS DRIVE
WEST COLUMBIA, SC 29169
(803) 791-4511
(803) 791-4522 (FAX)
- UNLESS NOTED OTHERWISE, STRUCTURAL STEEL GRADES FOR ALL STEEL SHALL BE AS INDICATED BELOW:

B. CONNECTION BOLTS A325 OR A490
C. PLATES AND FLAT BARS ... A36
G. OTHER ROLLED SHAPES..... A36
- ALL SHOP & FIELD WELDING SHALL BE PERFORMED BY QUALIFIED PERSONNEL IN ACCORDANCE WITH A.W.S. SPECIFICATIONS--LATEST EDITION. BOTH SHOP AND FIELD WELDER CERTIFICATIONS SHALL BE CURRENT THROUGH THE DURATION OF THE STEEL WORK. THE CONTRACTOR SHALL KEEP ON SITE ALL WELDER CERTIFICATIONS (SHOP AND FIELD) AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
- SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. ALL WELDING SHALL BE DONE WITH E-70 ELECTRODES. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES, ROOF LINES OR BUILDING GEOMETRY SHALL BE SHOWN ON THE STRUCTURAL STEEL SHOP DRAWINGS AND FABRICATED IN THE SHOP. FIELD CUTTING AND/OR BURNING IS NOT PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT OR A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.
- ALL HAZARDOUS MATERIAL TESTING WILL BE PERFORMED BY THE OWNER ALONG WITH ANY REQUIRED REMOVAL AS DETERMINED FROM THE TESTING. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER WELL IN ADVANCE OF THE START OF WORK FOR THE HAZARDOUS MATERIAL TESTING. THE TESTING IS REQUIRED AT EACH CONDITION RELATED TO THIS SCOPE OF WORK.
- ALL NEW STEEL SHALL BE PROVIDED TO THE SITE SHOP PRIMED.
- ALL STEEL WORK AND RELATED STEEL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT IS TO BE PAINTED. SEE PAINT NOTES BELOW.

PAINTING NOTES:

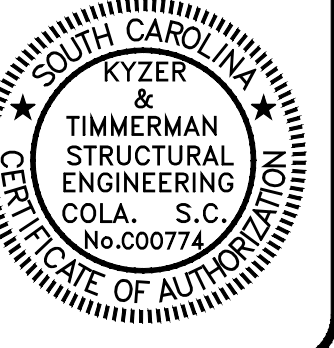
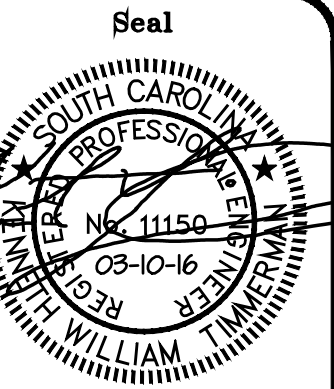
- PAINT ALL NEW STEEL COMPONENTS AS FOLLOWS:
a. SPOT PRIME AS REQUIRED FOR COMPLETE COVERAGE USING KEMKROMIK UNIVERSAL PRIMER BY SHERWIN WILLIAMS.
b. APPLY 1 COAT MACROPOXY 646-100 BY SHERWIN WILLIAMS (8-10 MILL DFT PER COAT).
c. APPLY TOP COAT PRO INDUSTRIAL MULTI-SURFACE ACRYLIC BY SHERWIN WILLIAMS (8-10 MILL DFT PER COAT).
- RE-PAINT ALL ADJACENT EXISTING STEEL COMPONENTS AFFECTED BY THIS WORK AS FOLLOWS:
a. POWER TOOL CLEAN EXISTING STEEL SURFACES PER SSPCSP. APPLY ONE COAT OF MACROPOXY 920 PRE-PRIME BY SHERWIN WILLIAMS.
b. APPLY 1 COAT MACROPOXY 646-100 BY SHERWIN WILLIAMS (8-10 MILL DFT PER COAT).
c. APPLY TOP COAT WITH PAINT PRODUCT TO MATCH EXISTING ADJACENT SURFACES. COORDINATE WITH SHERWIN WILLIAMS (8-10 MILL DFT PER COAT).



NEW X-BRACING ELEVATION

SCALE: 3/4\"/>

Revisions	
Revision	By

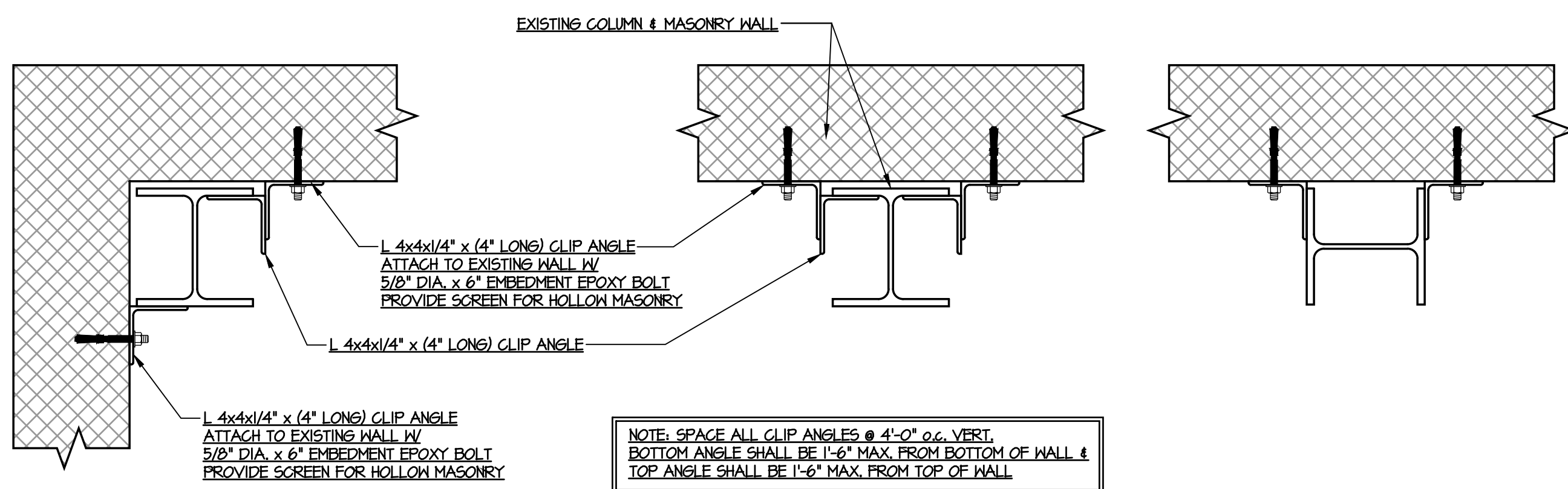
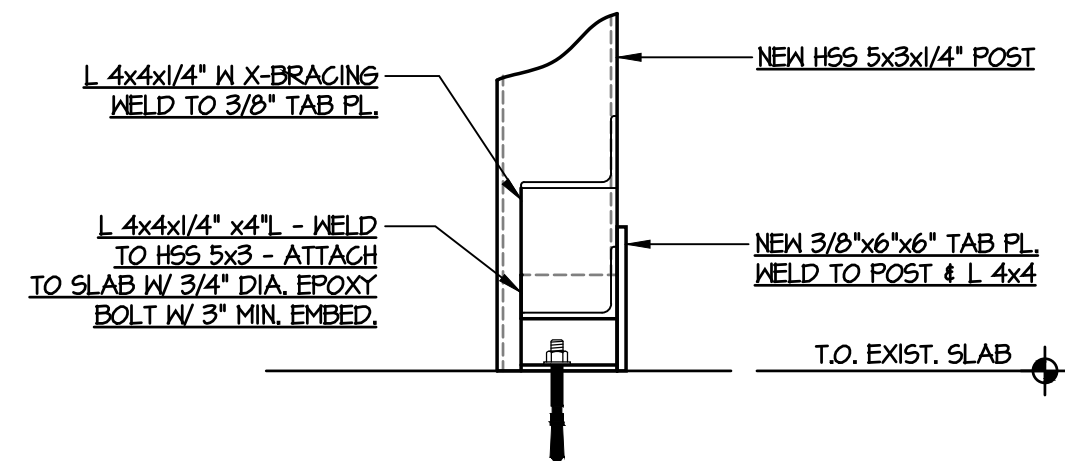


Job Title:
WILLIAMS BRICE STADIUM
2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS

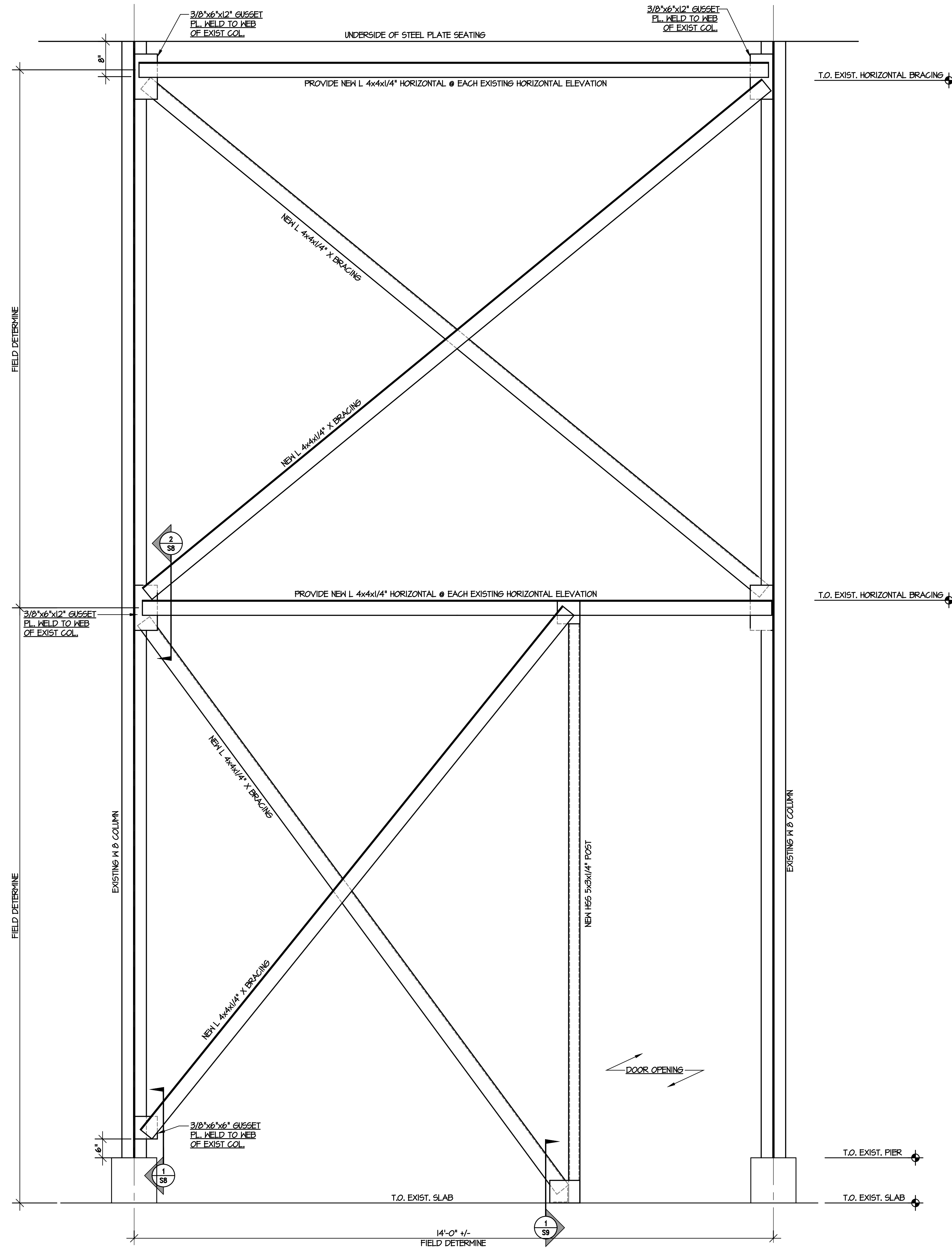
SOUTH CAROLINA
COLUMBIA



Drawing Title:	SECTIONS AND DETAILS
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Job Number:	15-123
Designed By:	DWS
Drawn By:	NDJ
Checked By:	DWS
Date:	03-10-2016

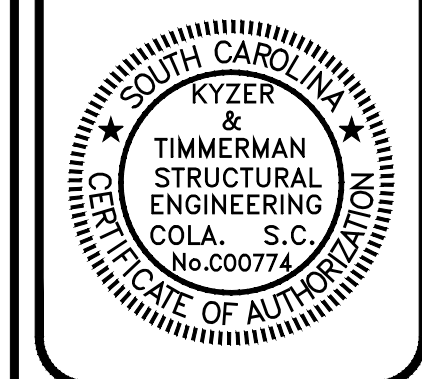
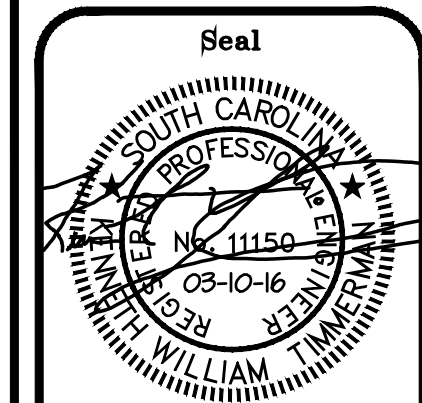


EXISTING COLUMN ATTACHMENT TO EXISTING MASONRY WALL TYPICAL DETAIL
SCALE: 1-1/2" = 1'-0"



NEW X-BRACING ELEVATION (INCLUDING DOOR OPENING)
SCALE: 3/4" = 1'-0"

Revisions	
Revision	By



Job Title:
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2015 STRUCTURAL INSPECTION REPORT
APPENDIX G - "X" BRACING RECOMMENDATIONS
SOUTH CAROLINA
COLUMBIA



Drawing Title: SECTIONS AND DETAILS	
Scale:	AS NOTED
Job Number:	15-123
Designed By:	DWS
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