

10/9/2023 1:45:07 PM

SHEET NOTES

CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO FABRICATION.
ALL NEW STEAL FROM THE PRIOR TO BE HOT DIPPED GALVANIZED, TYP.

TOUCH UP ALL FIELD WELDS WITH COLD GAL PAINT.
OPTION FOR FABRICATOR TO SHOP WELD BRACING TO COLUMNS. COORDINATE PIECE SIZES WITH CONTRACTOR AND GALVANIZING COMPANY.





THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

CARGILL

ROOF EQUIPMENT ACCESS

WEST	COLUMBIA	SOUTH CAROLINA	
	REVISI	ON SCHEDULE	
DATE	D	ESCRIPTION	BY
PROJECT	T NO	23-29390	
FILE NAM		29390 ARCH R22	
DRAWN E		KK KK	
DESIGNE		MCZ	

JEH

TITLE

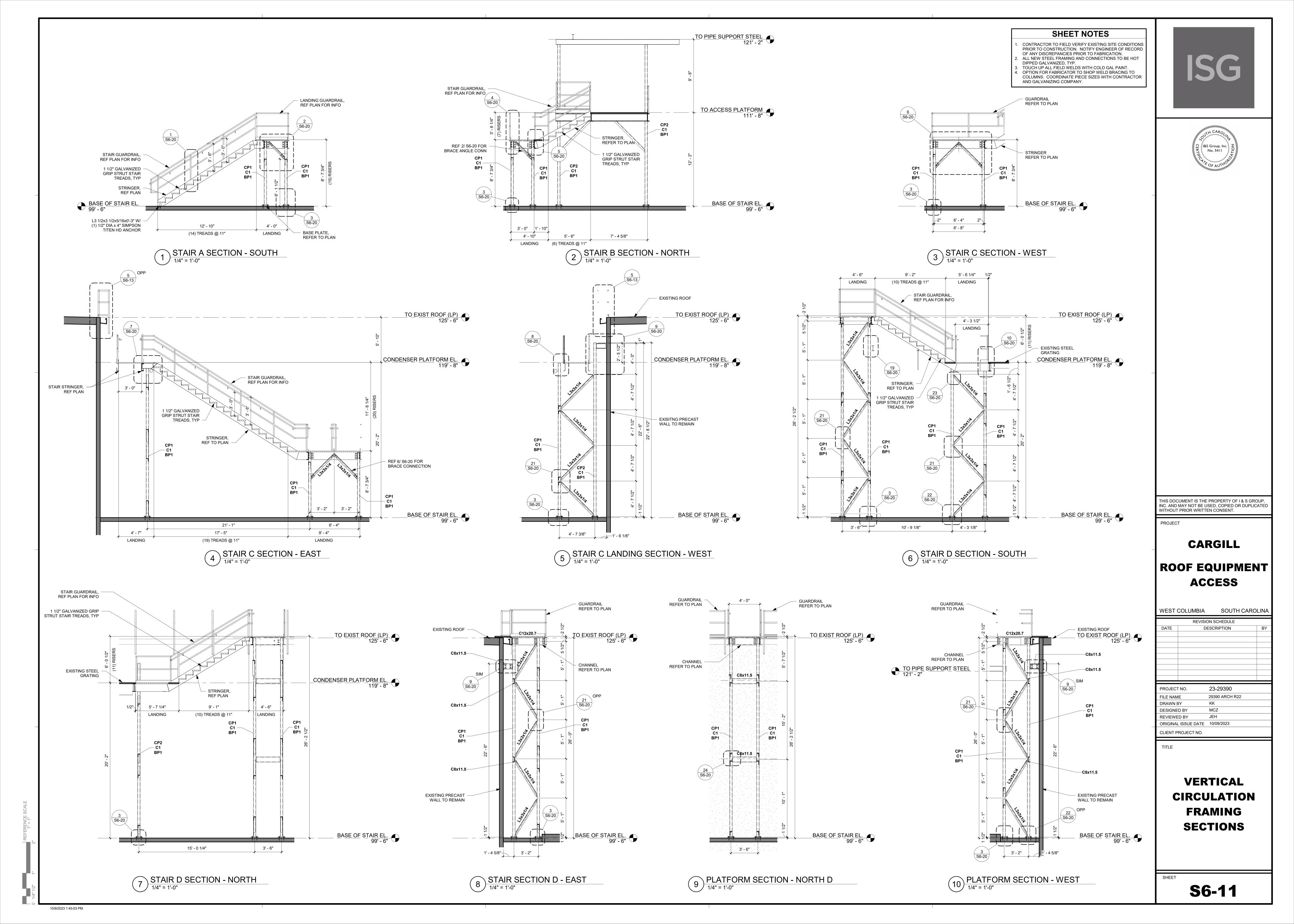
REVIEWED BY

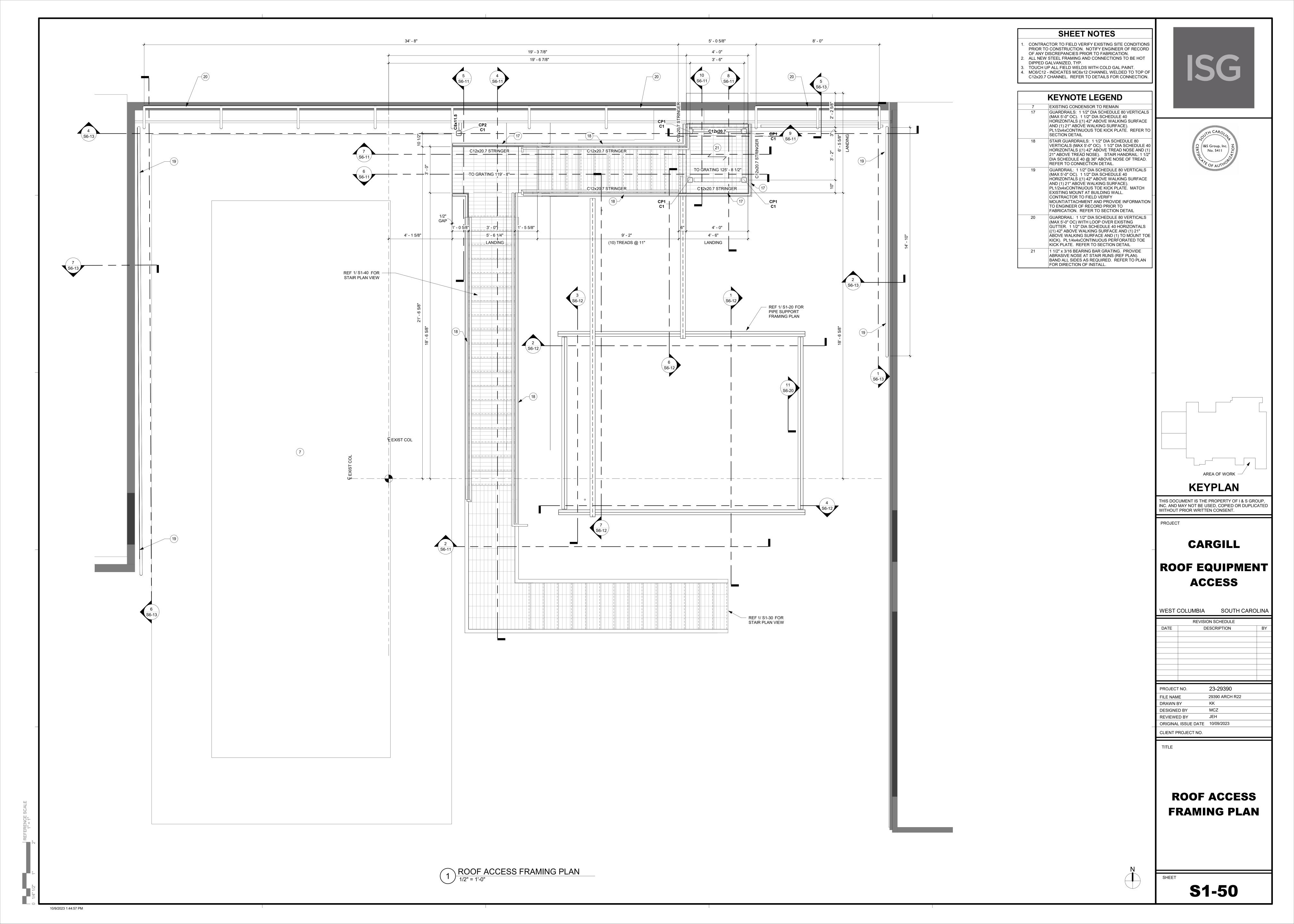
CLIENT PROJECT NO.

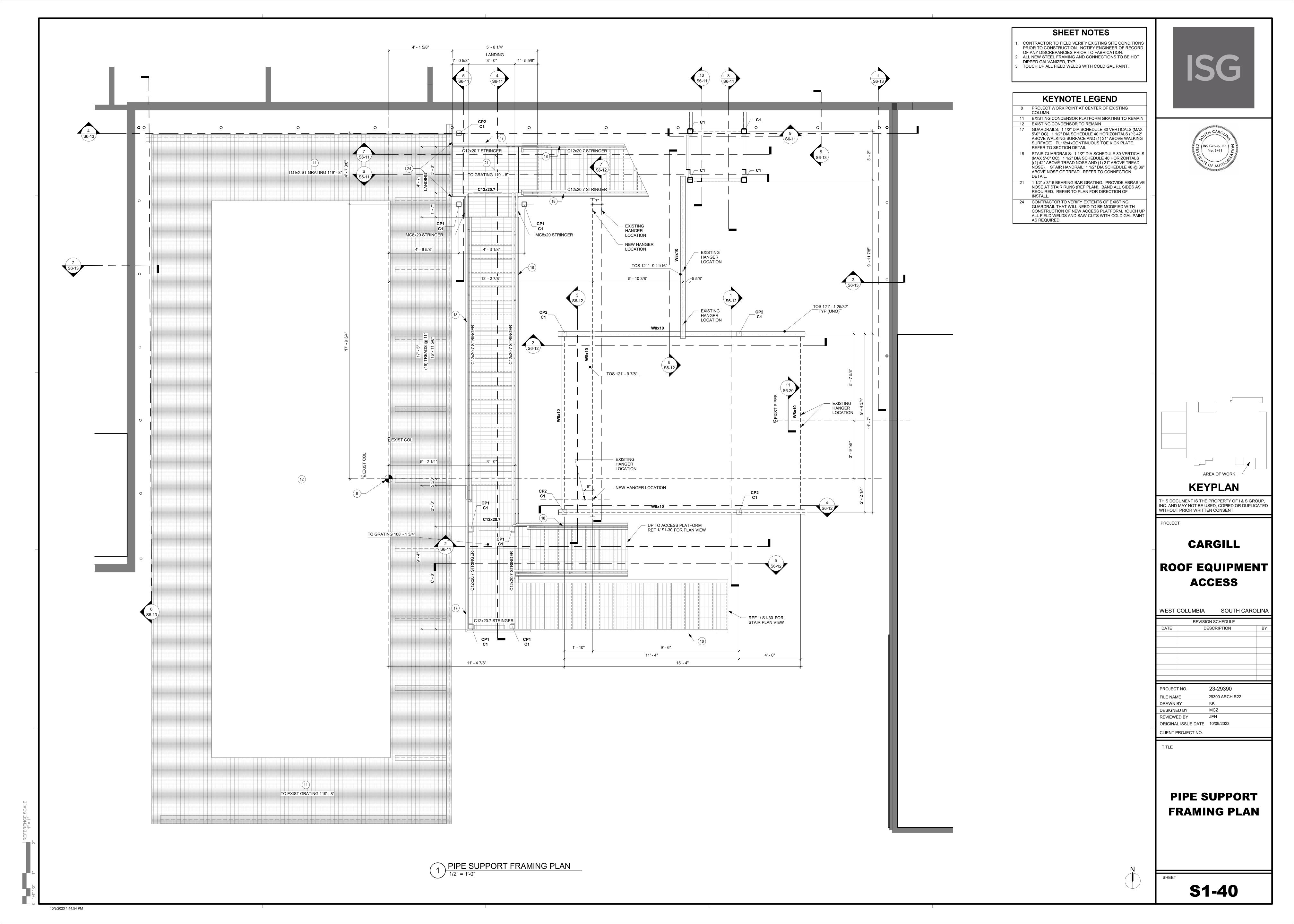
ORIGINAL ISSUE DATE 10/09/2023

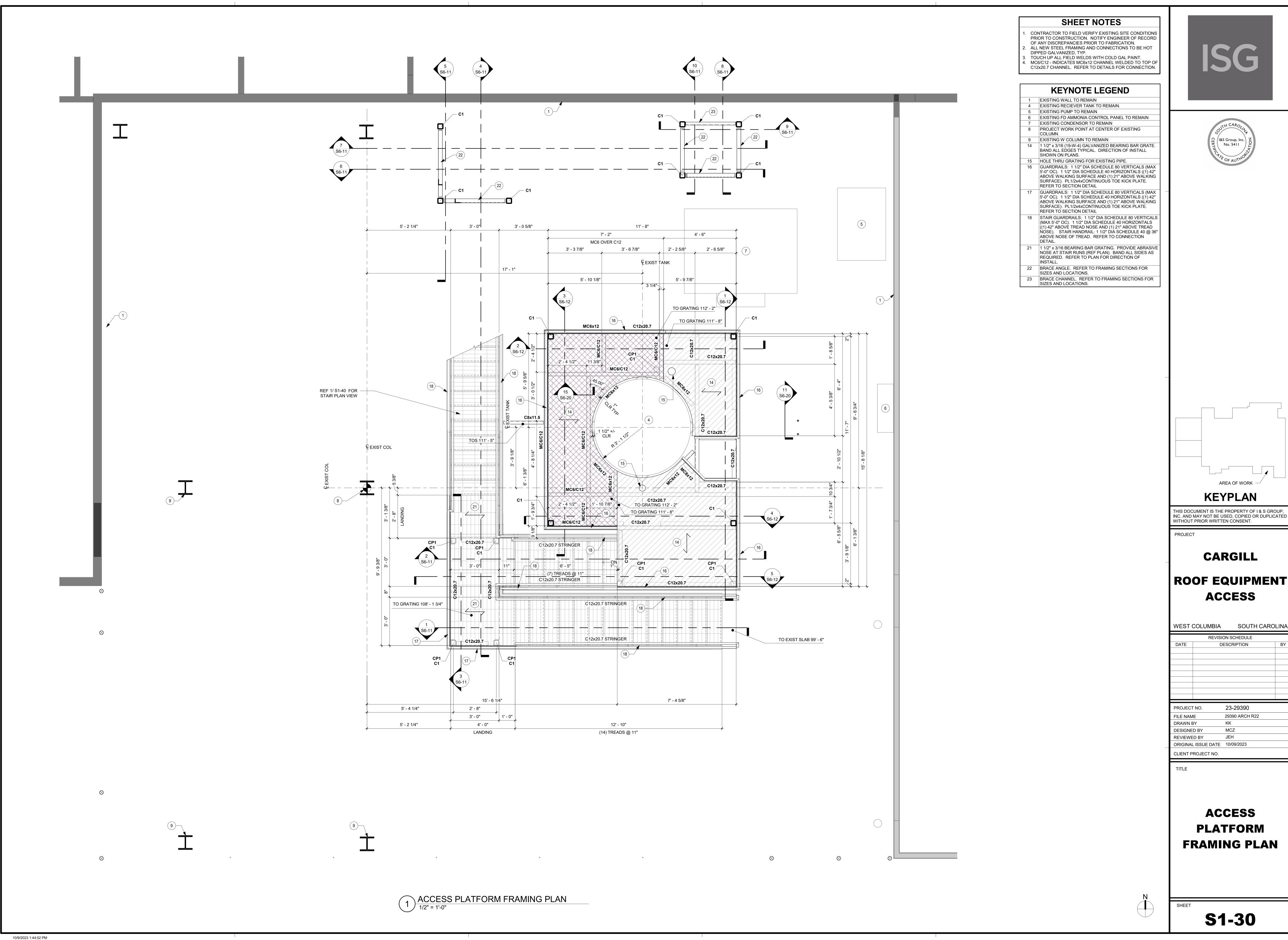
VERTICAL CIRCULATION FRAMING SECTIONS

S6-12



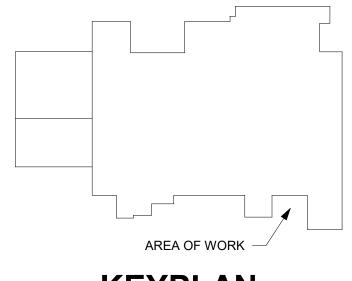












KEYPLAN

THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

DATE

CARGILL

ROOF EQUIPMENT **ACCESS**

REVISION SCHEDULE

DESCRIPTION

DD0 1503	5 N O	00 00000	
PROJECT NO.		23-29390	
FILE NAME		29390 ARCH R22	
DRAWN BY		KK	
DESIGNED BY		MCZ	
REVIEWED BY		JFH	

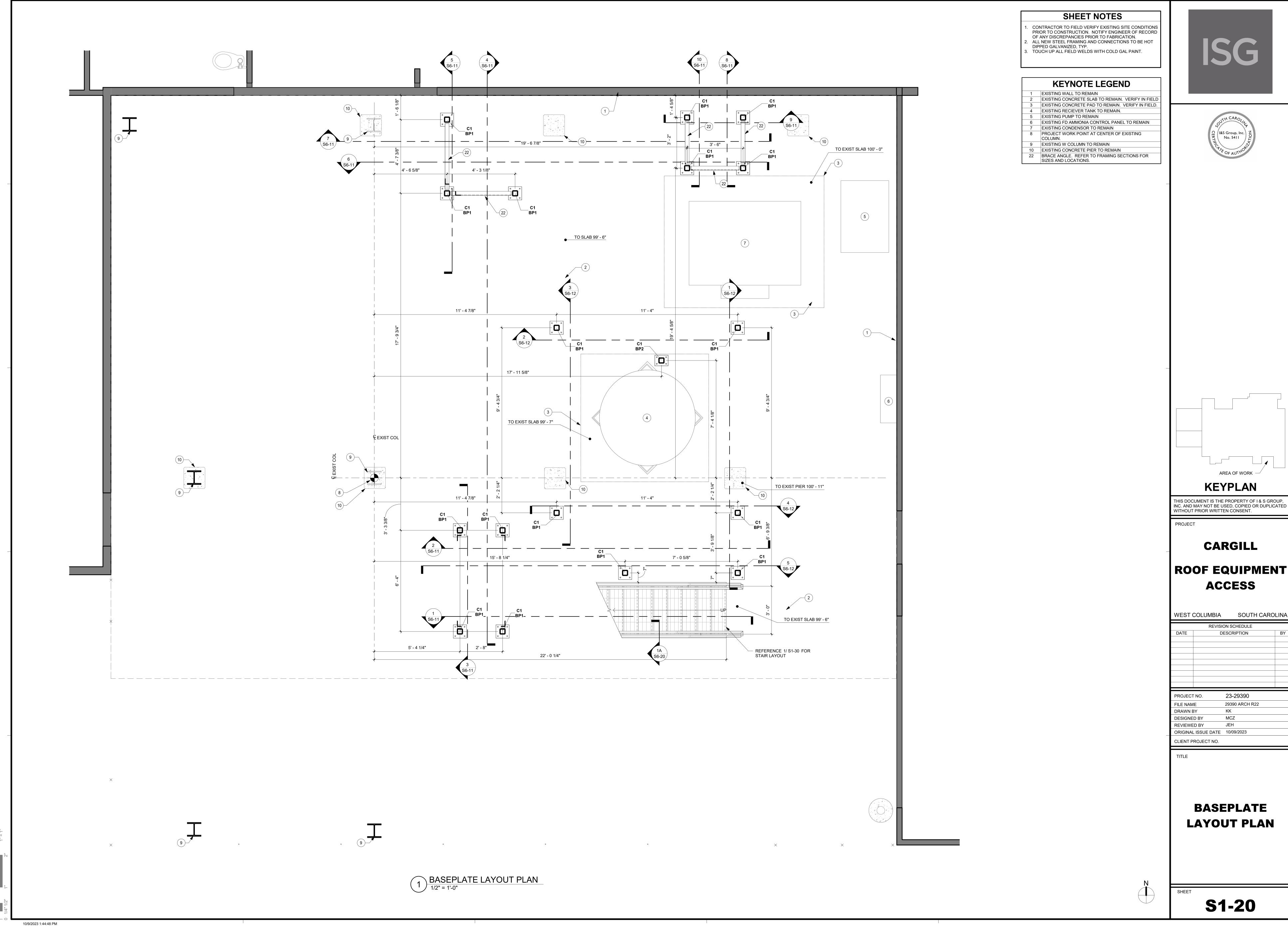
CLIENT PROJECT NO.

TITLE

ORIGINAL ISSUE DATE 10/09/2023

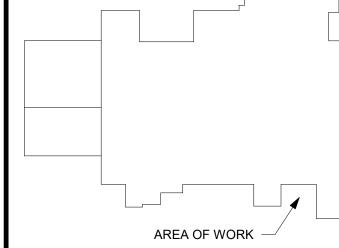
ACCESS PLATFORM FRAMING PLAN

S1-30





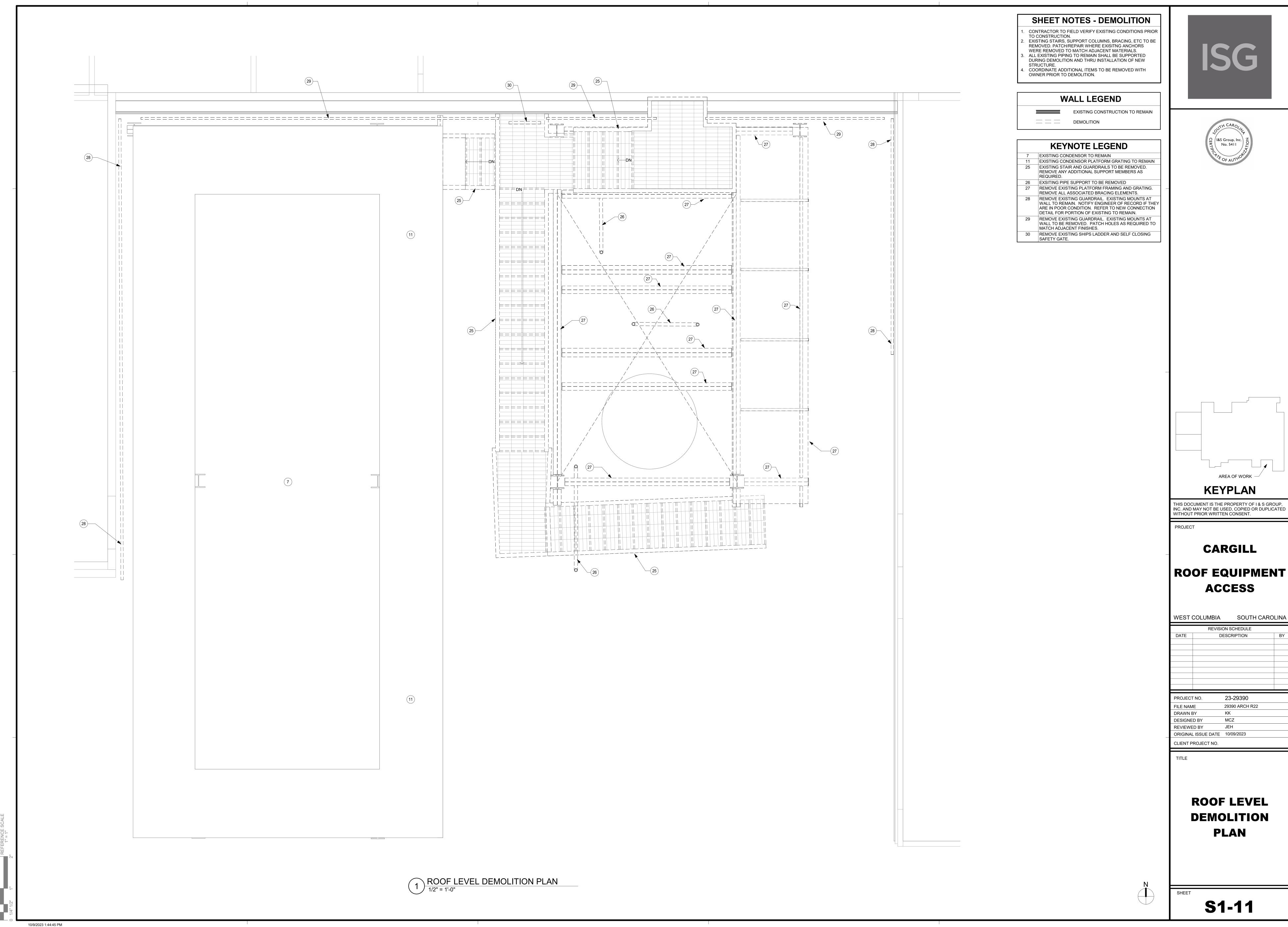


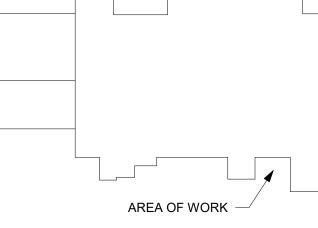


ROOF EQUIPMENT

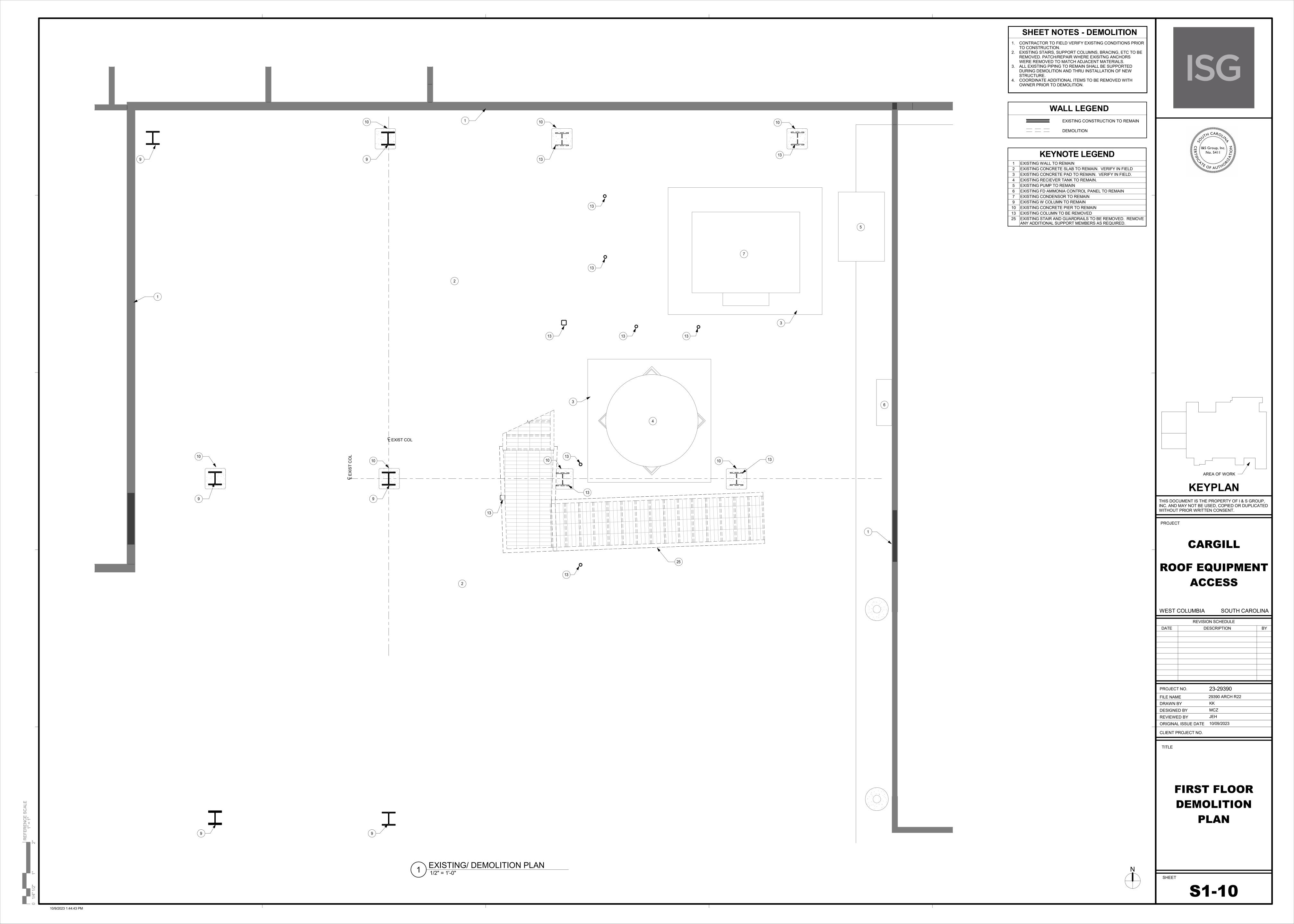
REVISION SCHEDULE				
DATE		DESCRIPTION	BY	
PROJECT NO.		23-29390		
FILE NAM	1E	29390 ARCH R22		
DRAWN BY		KK		

BASEPLATE LAYOUT PLAN





PROJEC1	ΓNO.	23-29390	
FILE NAM	1E	29390 ARCH R22	
DRAWN E	3Y	KK	
DESIGNED BY		MCZ	
	-D DV	IEU	



GENERAL NOTES

- A. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE.
- B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK; AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY
- C. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
- D. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED BEFORE BEGINNING EXCAVATION.
- E. NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING AND BRACING OF EXISTING STRUCTURAL ELEMENTS DURING CONSTRUCTION. ALL SHORING SHALL BE ADEQUATE TO SUPPORT ALL STRUCTURAL LOADS DURING THE REMOVAL OF THE EXISTING STRUCTURE. TEMPORARY SHORING MUST REMAIN IN PLACE UNTIL ALL NEW STRUCTURAL ELEMENTS ARE SECURED INTO PLACE PER CONSTRUCTION DOCUMENTS.
- G. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR REQUIREMENTS. DIMENSIONS AND EXACT LOCATIONS OF FLOOR DRAINS, TRENCHES, DRAIN TILE, PUMPS AND EQUIPMENT INCLUDING ANCHORING SYSTEMS AND HOUSEKEEPING PADS. GENERAL CONTRACTOR TO COORDINATE ALL OF THESE ITEMS WITH ALL DISCIPLINES INVOLVED.
- H. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING
- CODES AND MANUALS (LATEST ADOPTED EDITION): 1. STATE BUILDING CODE, WHEN APPLICABLE. INTERNATIONAL BUILDING CODE (IBC).
- AMERICAN CONCRETE INSTITUTE (ACI) 4. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE (FOR PLACING AND DETAILING OF ALL REINFORCING).
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). 6. AMERICAN WELDING SOCIETY (AWS) STANDARDS FOR WELDING AS MODIFIED BY AISC
- MASONRY STANDARDS JOINT COMMITTEE (MSJC)
- 8. AMERICAN FOREST & PAPER ASSOCIATION NATIONAL DESIGN SPECIFICATION (AF & PA NDS)

DESIGN LOADS CRITERIA

- A. CODES USED: 1. 2021 SOUTH CAROLINA BUILDING CODE 2. 2018 INTERNATIONAL BUILDING CODE
- 3. 2016 AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD 7 (ASCE 7-16)
- B. RISK CATEGORY: II
- C. WIND LOAD CRITERIA:
- 1. BASIC DESIGN WIND SPEED. V = 115 MPH (3 SECOND GUST) 2. ALLOWABLE STRESS DESIGN WIND SPEED, Vasd = 90 MPH (3 SECOND GUST)
- 3. WIND LOAD EXPOSURE: C 4. INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ENCLOSED BUILDING)
- 5. WIND TOPOGRAPHIC FACTOR: $K_{ZT} = 1.0$ 6. C & C WIND WALL PRESSURE: REFER TO COMPONENT AND CLADDING WIND PRESSURE TABLE
- 7. WIND NET UPLIFT: 15 PSF (NOMINAL)
- D. SNOW LOAD CRITERIA: GROUND SNOW LOAD, Pg = 10 PSF 2. FLAT-ROOF SNOW LOAD (BALANCED), PF = 12.7 PSF
- 3. SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
- 4. SLOPE FACTOR, $C_S = 1.0$ 5. THERMAL FACTOR, $C_T = 1.1$
- 6. SNOW EXPOSURE FACTOR, C_F = 1.0 E. EARTHQUAKE LOAD CRITERIA
- 1. SEISMIC IMPORTANCE FACTOR: IE = 1.0 2. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
- S_S = 34.7% a • $S_1 = 11.4\% q$
- 4. SPECTRAL RESPONSE COEFFICIENT: S_{DS} = 0.301
- S_{D1} = 0.114 5. SEISMIC DESIGN CATEGORY = B

3. SOIL SITE CLASS: C

- 6. SEISMIC FORCE RESISTING SYSTEM: STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED
- FOR SEISMIC RESISTANCE 7. SEISMIC RESPONSE COEFFICIENT, Cs = 0.100
- 8. RESPONSE MODIFICATION FACTOR, R = 1.5 9. OVER-STRENGTH FACTOR: $\Omega = 2.5$ 10. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL-FORCE ANALYSIS
- F. LIVE LOADS
- 1. ROOF: 20 PSF 2. FLOOR: 50 PSF
- 3. STAIR ASSEMBLIES: 100 PSF 4. RAILING: 200 LBS AT ANY POINT OR 50 PLF, WHICHEVER PRODUCES MAXIMUM LOAD EFFECT 5. PARTITIONS: 15 PSF
- G. DEAD LOADS 1. FLOOR: 11 PSF 2. MISCELLANEOUS CEILING: 6 PSF
- H. RAIN LOAD DATA 1. RAIN INTENSITY, i: 3.72 IN/HR

SHOP DRAWINGS

- A. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER RESPONSIBLE FOR ITS PREPARATION, WHO IS REGISTERED IN THE STATE WHICH THE PROJECT IS LOCATED.
- B. PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER.
- C. THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS FOR GENERAL CONFORMANCE OF THE DESIGN CONCEPT. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTALS THAT IS ACCEPTABLE TO BOTH CONTRACTOR AND ENGINEER. AFTER THE CONTRACTOR HAS REVIEWED THE SHOP DRAWINGS, PROMPT REVIEW BY THE ENGINEER WILL BE MADE OF ALL SUBMITTALS.
- D. FOR LARGE SUBMITTALS, REASONABLE REVIEW TIME SHALL BE ALLOWED AND MAY EXCEED TWO WEEKS. THE CONTRACTOR SHALL SUBMIT NECESSARY REQUEST FOR INFORMATION (RFI's) DURING THE DETAILING PROCESS TO AVOID SUBMITTALS THAT ARE INCOMPLETE OR NEED SIGNIFICANT VERIFICATIONS. THE CONCURRENT SUBMITTAL OF MULTIPLE SHOP DRAWINGS ("DUMPING") WILL FURTHER EXTEND THE REVIEW PROCESS AND TIME FRAME NECESSARY TO PROPERLY REVIEW EACH
- .. UNLESS INDICATED OTHERWISE, THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE FOLLOWING ITEMS FOR STRUCTURAL REVIEW. REFER TO SPECIFIC SECTION OF STRUCTURAL NOTES FOR ANY ADDITIONAL CRITERIA:
 - CONCRETE MIX DESIGNS PRESTRESSED CONCRETE
 - 3. STRUCTURAL STEEL OPEN-WEB BAR JOISTS
- STEEL ROOF DECK PRE-ENGINEERED METAL BUILDING DESIGN
- PRE-FABRICATED WOOD TRUSSES 8. PRE-ENGINEERED POST-FRAME BUILDING
- 9. ADDITIONAL STRUCTURAL SHOP DRAWINGS REQUESTED IN THE SPECIFICATIONS
- F. A COPY OF ALL SHOP DRAWINGS SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- G. SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAIL SCHEDULES, PROCEDURES, AND DIAGRAMS FOR FABRICATION AND ASSEMBLY OF STRUCTURAL MEMBERS AND SUBMIT PRIOR TO FABRICATION.
- H. ERECTION PLANS ARE THE RESPONSIBILITY OF THE FABRICATOR.

STRUCTURAL STEEL

- A. SPECIFICATIONS:
- 1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "STEEL CONSTRUCTION MANUAL", 14TH EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. UNLESS NOTED OTHERWISE 2. STEEL MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS,

UNLESS NOTED OTHERWISE:		
STRUCTURAL TYPE/SHAPE	ASTM DESIGNATION	MATERIAL STRENGTH
ANCHOR BOLTS	F1554 GRADE 36	Fy = 36 KSI
W-SHAPE	A992	Fy = 50 KSI
M, S, C, MC, AND L-SHAPES, PLATES AND BARS	A36	Fy = 36 KSI
STAIR STEEL PLATE	A283 GRADE C	Fy = 30 KSI
STAIR SHEET STEEL	A653 GRADE C	Fy = 36 KSI
HP-SHAPE	A572 GRADE 50	Fy = 50 KSI
PIPES	A53 GRADE B	Fy = 35 KSI
HSS RECTANGULAR	A500 GRADE B	Fy = 46 KSI
HSS ROUND	A500 GRADE B	Fy = 42 KSI
FASTENERS	A325N	Fnv = 48 KSI, Fnt = 90 KSI
	A325X	Fnv = 60 KSI, Fnt = 90 KSI
	A490N	Fnv = 60 KSI, Fnt = 113 KS
	A490X	Fnv = 75 KSI, Fnt = 113 KS
CONNECTION NUTS	A563	
WASHERS	F436	
WELDS		
E70XX ELECTRODES	A233	FU = 70 KSI
COLD ROLLED E60XX ELECTRODES	A233	FU = 60 KSI
STUD ANCHORS	A108	FU = 65 KSI

- 3. TWO COPIES OF CERTIFIED MILL TEST REPORTS ON ALL ASTM MATERIALS USED IN THIS WORK
- SHALL BE FURNISHED TO THE ENGINEER. 4. ALL STAINLESS STEEL SHALL BE TYPE S30400/S30403 DUAL CERTIFIED OR S30403 (S304L), UNLESS
- NOTED OTHERWISE. 5. ALL ASTM A325 BOLTS EXPOSED TO EXTERIOR CONDITIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123: ASTM 490 BOLTS SHALL NOT BE GALVANIZED.
- 6. CLEAN ALL EXTERIOR FIELD WELDS AND MEMBERS PER SSPC-SP3 AND PRIME PAINT WITH GRAY INORGANIC ZINC TO A 3-5 MIL THICKNESS.
- B. DESIGN STRESS:
- MINIMUM BEAM CONNECTIONS SHALL NOT BE SMALLER THAN THOSE LISTED IN PART 10 OF THE
- 2. UNLESS DETAILED OTHERWISE, MAKE CONNECTIONS WITH E70XX ELECTRODES OR BOLTED WITH
- 3/4" A325 BOLTS IN BEARING-TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE (A325N).
- C. WELDING: 1. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING
- 2. WELDER CERTIFICATION PROCEDURES SHALL BE AS FOLLOWS: a. ALL WELDERS SHALL BE CURRENTLY CERTIFIED AND REGISTERED BY THE LOCAL OFFICIALS AND/OR THE AMERICAN WELDING SOCIETY AND, IF REQUIRED, ALL WELDERS SHALL HAVE
- THEIR CERTIFICATION AVAILABLE TO THE ENGINEER. 3. ALL WELD FILLER METAL SHALL BE AWS E70XX WITH A MINIMUM CHARPY V-NOTCH (CVN TOUGHNESS OF 20FT-LB AT 0 DEG F, AS DETERMINED BY THE APPROPRIATE AWS AS
- CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION, UNLESS NOTED OTHERWISE. 4. WELDS DESIGNATED AS DEMAND CRITICAL (DC) SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT -20 DEG F AND 40 FT-LB AT A TEMPERATURE OF 70DEG F AS DETERMINED BY THE MANUFACTURER'S CERTIFICATION, AISC 341-05 APPENDIX X, OR OTHER APPROVED METHOD. WELD FILLER METALS SHALL NOT BE USED FROM PACKAGING THAT HAS BEEN PUNCTURED OR TORN, OR IF THE MANUFACTURER'S RECOMMENDATIONS FOR EXPOSURE TIME OR DRYING PROCEDURES HAVE NOT BEEN FOLLOWED.
- 5. ALL BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS, UNLESS NOTED
- 6. ALL GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS, UNLESS NOTED
- 7. WELDING PROCEDURE AND SEQUENCES SHALL BE PLANNED TO MINIMIZE WELD SHRINKAGE THAT COULD RESULT IN LAMELLAR TEARING.
- FIELD WELDING WILL BE ALLOWED ONLY WHERE SHOWN ON THE DRAWINGS. 9. EXISTING AND NEW STEEL SURFACES TO BE WELDED SHALL BE CLEANED OR PAINT, GREASE,
- SCALE, OR OTHER FOREIGN MATERIAL REMOVED. 10. ALL FIELD WELDS SHALL BE WIRE BRUSHED AND CLEANED, THEN TOUCHED-UP PAINTED.
- D. MISCELLANEOUS METAL
- WORK INCLUDES LINTELS, STAIRS, PANS, HANDRAILS, GUARDRAILS, POSTS, ETC.
- FABRICATION: a. FABRICATE STAIRS WITH CLOSED RISERS AND TREADS OF METAL PAN CONSTRUCTION READY TO RECEIVE CONCRETE, UNLESS NOTED OR DETAILED OTHERWISE IN THE CONSTRUCTION
- DOCUMENTS. b. FORM LANDINGS WITH SHEET STEEL STOCK.
- c. FORM STRINGERS WITH STEEL PLATE OR CHANNELS. d. FIT AND SHOP ASSEMBLE HANDRAIL COMPONENTS WHERE POSSIBLE. GRIND EXPOSED JOINTS
- FLUSH AND SMOOTH. e. SHOP PRIME WITH TWO COATS.
- E. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE CALCULATIONS THAT SUMMARIZE ANY CONNECTION REVISIONS.

FOOTINGS AND FOUNDATIONS

CONCRETE

- A. SOIL BEARING DESIGN VALUE:
- . 1500 PSF (PRESUMED). 2. BEARING VALUE TO BE VERIFIED IN FIELD BY GEOTECHNICAL ENGINEER.
- B. PROTECT FOUNDATION EXCAVATIONS FROM FROST; DO NOT PLACE CONCRETE ON FROZEN GROUND.
- C. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
- D. DESIGN FROST PENETRATION DEPTH: 42 INCHES (HEATED) OR 60 INCHES (UNHEATED)
- E. MINIMUM OF 6" COMPACTED GRANULAR SUBGRADE BELOW SLABS.
- A. CONCRETE SHALL BE STANDARD WEIGHT MIX UNLESS NOTED OTHERWISE AND MEET THE FOLLOWING

LOCATIONS	f'c @ 28 DAYS	AIR ENTRAINMENT	MAX. WATER/CEMENT RATIO
FOOTINGS / FOUNDATIONS	3000 PSI		0.55
FLOORS ON GRADE	3500 PSI		0.55
COLUMNS	4000 PSI		0.55
EXTERIOR SLABS ON GRADE	4500 PSI	6% ± 1.5%	0.45
EXPOSED EXTERIOR WALLS	4500 PSI	6% ± 1.5%	0.45

- B. CEMENT SHALL CONFORM TO ASTM C150, TYPE I / II OR ASTM C595 TYPE IL.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- D. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE
- E. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
- F. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR APPROVAL 10 DAYS PRIOR TO FABRICATION AND INSTALLATION. ALL CONCRETE MIXES SHALL BE DESIGNED AND CERTIFIED BY A MATERIALS TESTING
- PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS DETAILED OR NOTED OTHERWISE.
- H. PLACE VAPOR RETARDER OR VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.

I. CONCRETE FLOOR SHALL BE CURED IN ACCORDANCE WITH ASTM C309. CONCRETE FLOOR SHALL BE PROTECTED FROM MOISTURE LOSS FOR A MINIMUM OF 14 DAYS, USING AN APPROVED SHEET MEMBRANE IN ACCORDANCE WITH C171.

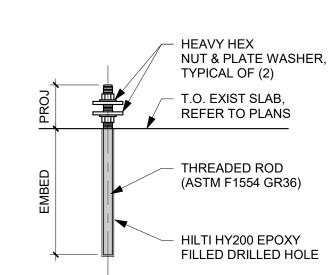
- J. FLOOR FLATNESS AND LEVELNESS TOLERANCES: . UNLESS NOTED OTHERWISE, FLOORS SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE
 - a. FLOOR FLATNESS NUMBER (F_F) SPECIFIED OVERALL VALUÉ = 20
 - MINIMUM LOCAL VALUE = 15 b. FLOOR LEVELNESS NUMBER (F_L)
 - SPECIFIED OVERALL VALUE = 20 MINIMUM LOCAL VALUE = 15
- 2. FLOOR TOLERANCE (FF AND FL) MEASUREMENTS SHALL BE TESTED IN ACCORDANCE WITH ASTM E 1155. ACTUAL OVERALL F-NUMBERS SHALL BE CALCULATED USING THE INFERIOR / SUPERIOR AREA
- 3. CORRECT DEFECTIVE SLABS BY GRINDING OR REMOVING AND REPLACING DEFECTIVE WORK. RE-

MEASURE CORRECTED AREAS BY THE SAME PROCESS. **ANCHOR BOLTS**

A. ALL ANCHOR RODS SHALL BE SUPPLIED AND INSTALLED BY THE CONCRETE CONTRACTOR, UNLESS

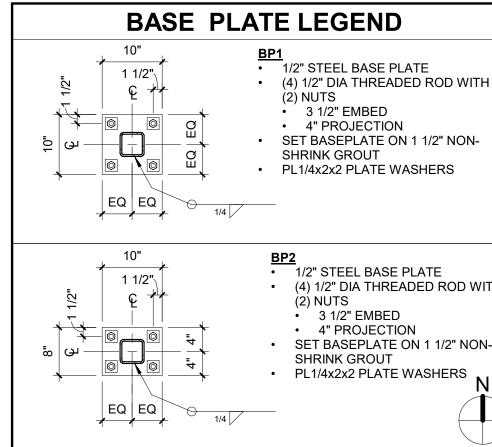
SHALL BE ASTM A563 GRADE A HEAVY HEX. OVER-SIZED PLATE WASHERS SHALL BE ASTM A36.

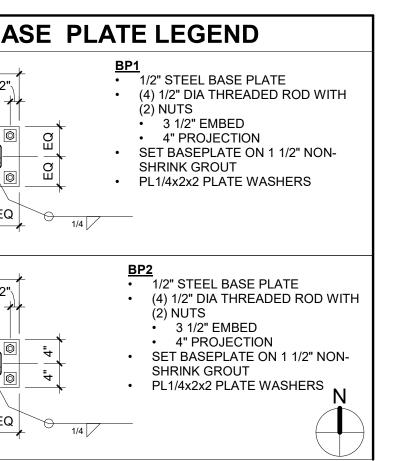
- B. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 HEX-HEAD, UNLESS NOTED OTHERWISE. NUTS
- C. ALL ANCHOR RODS SHALL BE SET WITH TEMPLATES.
- D. POST-INSTALLED ANCHORS SHALL BE ADHESIVE ANCHORING SYSTEM PROVIDED AND INSTALLED BY FRAMING CONTRACTOR. ADHESIVE ANCHORS SHALL BE "HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM" OR APPROVED ALTERNATE. ANCHORS SHALL BE "HILTI HAS-E" THREADED ROD CONFORMING TO ISO 898-1 CLASS 5.8 OR SHALL BE MADE FROM ALL-THREADED ROD CONFORMING TO ASTM A572 GRADE 60, OR APPROVED ALTERNATE, UNLESS NOTED OTHERWISE.

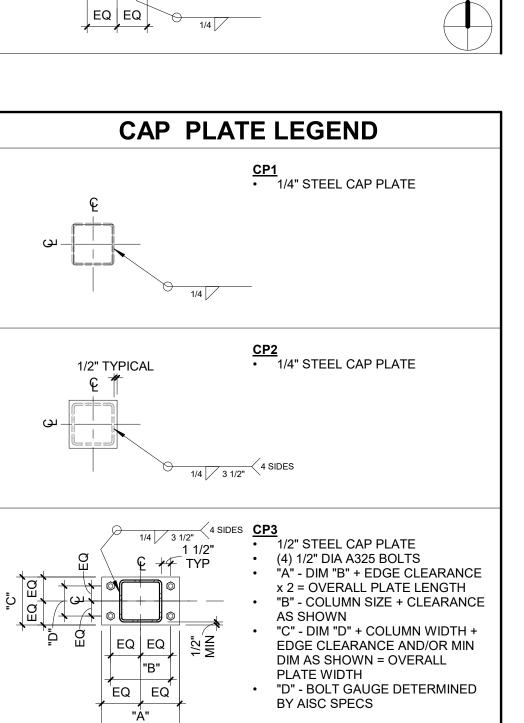
















THIS DOCUMENT IS THE PROPERTY OF I & S GROUP. INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

SOUTH CAROLINA

CARGILL

WEST COLUMBIA

PROJECT

| ROOF EQUIPMENT

ACCESS

	REVISI	ON SCHEDULE	
DATE	D	ESCRIPTION	BY
PROJEC ⁻	ΓNO.	23-29390	l e
PROJEC ⁻		23-29390 29390 ARCH R22	
	1E		
FILE NAM	1E 3Y	29390 ARCH R22	
FILE NAM	ME BY ED BY	29390 ARCH R22 KK	
FILE NAM DRAWN I DESIGNE REVIEWE	ME BY ED BY	29390 ARCH R22 KK MCZ JEH	

TITLE

STRUCTURAL NOTES, **SCHEDULE, AND LEGENDS**

S1-00

CARGILL ROOF EQUIPMENT ACCESS

WEST COLUMBIA, SOUTH CAROLINA

ISG PROJECT # 23-29390

S6-20 FRAMING DETAILS





ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL AND SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT / ENGINEER.
 B. CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK. CONTRACTOR IS

PROJECT GENERAL NOTES

EXTENT AND COMPLETE COORDINATION OF ALL WORK. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CORRELATING QUANTITIES AND DIMENSIONS.

WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

E. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT /

ENGINEER BEFORE PROCEEDING WITH THE WORK.

FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, NOTIFY ARCHITECT /

ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.

LARGE-SCALE, MORE SPECIFIC DETAILS TAKE PRECEDENCE OVER SMALLER-SCALE, LESS SPECIFIC DETAILS AND INFORMATION. MORE STRINGENT

DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

PROVIDE CONTINUOUS SEALANT AROUND ALL MATERIALS AT ALL INTERIOR AND EXTERIOR WALL PENETRATIONS. REFER TO SPECIFICATIONS FOR APPROPRIATE

REQUIREMENTS FOR CODE, PRODUCTS AND INSTALLATION TAKE PRECEDENCE OVER LESS STRINGENT REQUIREMENTS. NOTIFY ARCHITECT/ENGINEER OF ANY

ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.

SEAL ALL OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS, AROUND DUCTS PIPES, VENTS, TRAPS, CONDUIT AND ALL OTHER PENETRATIONS WITH FIRE STOPPING AS SPECIFIED AND REQUIRED BY CODES. IF FIRE STOPPING IS NOT REQUIRED AT PENETRATIONS PER CODE, SEAL WITH CONTINUOUS SEALANT.

PROVIDE TEMPORARY WALLS, ENCLOSURES, DUST SHIELDS AND WALK-OFF MATS AS REQUIRED TO SEPARATE DEMOLITION AND CONSTRUCTION FROM EXISTING BUILDING.

PROVIDE BRACING AND SHORING AS REQUIRED TO PROTECT EXISTING STRUCTURE TO REMAIN. PROVIDE SECURE AND WEATHERPROOF ENCLOSURE OF TEMPORARY OPENINGS IN EXTERIOR WALLS. PROTECT ALL BUILDING COMPONENTS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

RESTORE ALL EXISTING AREAS AFFECTED BY DEMOLITION AND RELATED NEW CONSTRUCTION TO THEIR ORIGINAL CONDITION, INCLUDING BUT NOT LIMITED TO WALLS, FLOORS, AND CEILINGS AND THEIR ASSOCIATED FINISHES.

PROVIDE SOLID WALL BACKING WITH METAL OR FIRE-RETARDANT WOOD BLOCKING BEHIND DOOR HARDWARE SUCH AS WALL STOPS, BUMPERS, HOLD OPENS, ETC. AND AT ALL ITEMS REQUIRING FASTENING THROUGH GYP BD. TO

D. RENDERED IMAGES MAY NOT BE AN ACCURATE REPRESENTATION OF BUILDING CONDITIONS, REFER TO PLANS AND DETAILS CONTAINED WITHIN FOR SCOPE OF

SHEET INDEX

SHEET # SHEET TITLE

GENERAL

G1-10 TITLE SHEET, SHEET INDEX, PROJECT GENERAL NOTES

STRUCTURAL

S1-00 STRUCTURAL NOTES, SCHEDULE, AND LEGENDS

S1-10 FIRST FLOOR DEMOLITION PLAN

S1-11 ROOF LEVEL DEMOLITION PLAN

S1-20 BASEPLATE LAYOUT PLAN

S1-30 ACCESS PLATFORM FRAMING PLAN

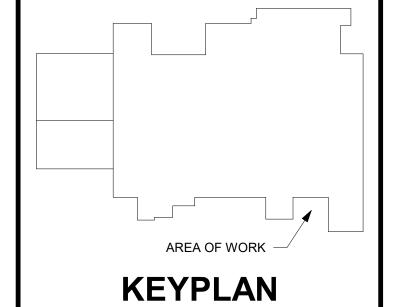
S1-40 PIPE SUPPORT FRAMING PLAN

S1-50 ROOF ACCESS FRAMING PLAN

S6-11 VERTICAL CIRCULATION FRAMING SECTIONS

S6-12 VERTICAL CIRCULATION FRAMING SECTIONS

S6-13 GUARDRAIL ELEVATIONS



THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

PROJECT

WEST COLUMBIA

CARGILL

ROOF EQUIPMENT ACCESS

SOUTH CAROLINA

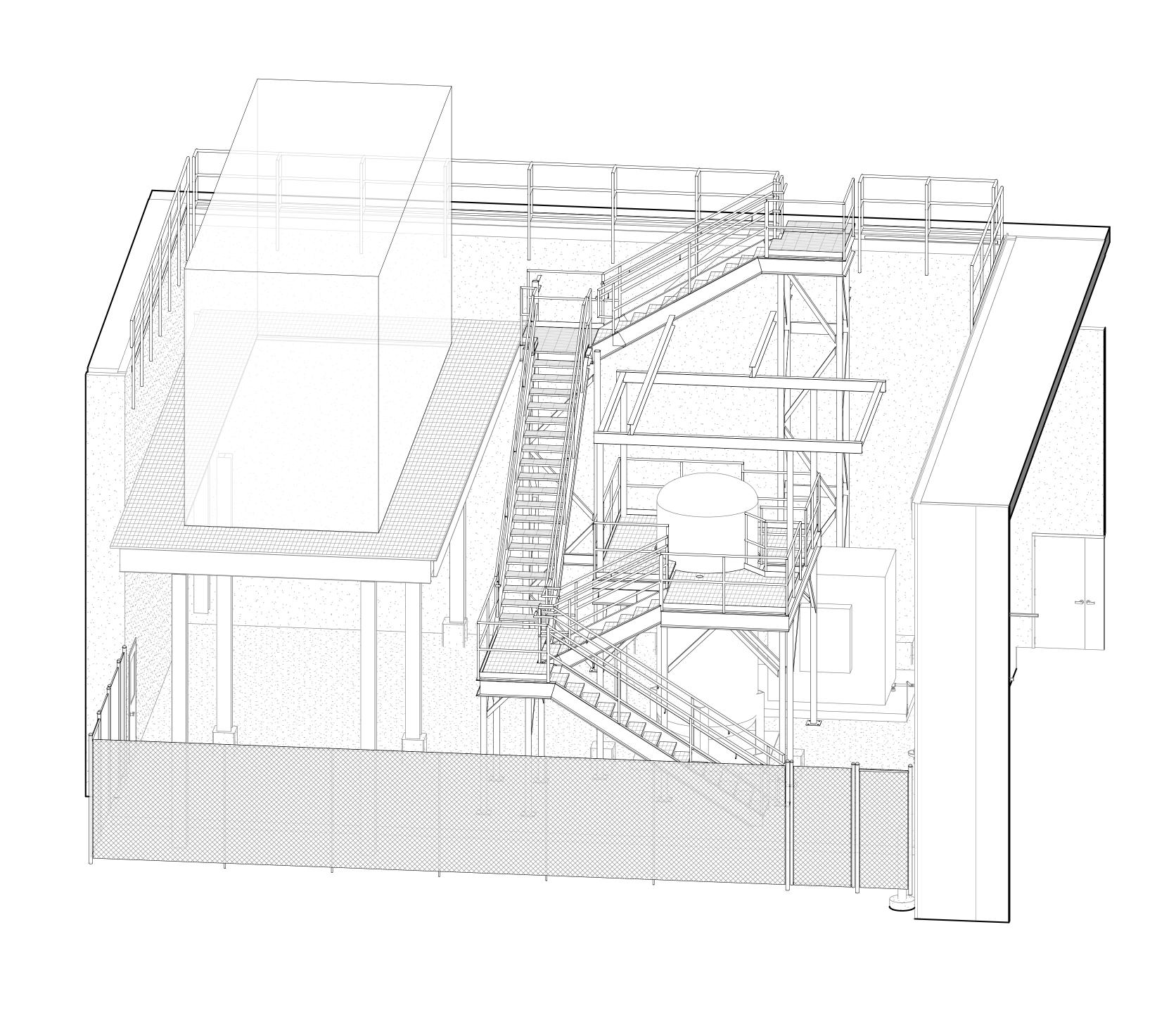
DATE	D	ESCRIPTION	BY
DD0 1507	- NO	00.0000	
PROJEC1	I NO.	23-29390	
FILE NAME		29390 ARCH R22	
DRAWN BY		KK	
DESIGNE	D BY	MCZ	
DESIGNE REVIEWE		MCZ JEH	
REVIEWE			

TITLE

TITLE SHEET,
SHEET INDEX,
PROJECT
GENERAL NOTES

SHEET

G1-10



PROJECT INDEX:

OWNER:

CARGILL 1964 OLD DUNBAR ROAD WEST COLUMBIA, SOUTH CAROLINA 29172 PROJECT ADDRESS:

CARGILL 1964 OLD DUNBAR ROAD WEST COLUMBIA, SOUTH CAROLINA 29172 MANAGING OFFICE:



LA CROSSE OFFICE

201 MAIN STREET
SUITE 1020
LA CROSSE, WISCONSIN 54601
PHONE: 608.789.2034
PROJECT MANAGER: NICK ELLENBERGER
EMAIL: nick.ellenberger@isginc.com

(803)-888-1901