# CHEROKEE HARD ROCK CASINO EXTERIOR RENOVATION PHASE I

# **CONSTRUCTION SET**



<u>Architect</u>

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SHEET INDEX --- & ASSOCIATES---EDMONDSON REED & ASSOCIATES 1401 S. Denver Ave., Suite B Tulsa, OK 74119 Tel. (918) 884-6003 Fax. (877) 276-1242 This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of EDMONDSON REED & ASSOCIATES, and is not to be used, in whole or in part, for any other project, without the written authorization of EDMONDSON REED & ASSOCIATES. SHEET NAME G-000 COVER SHEET
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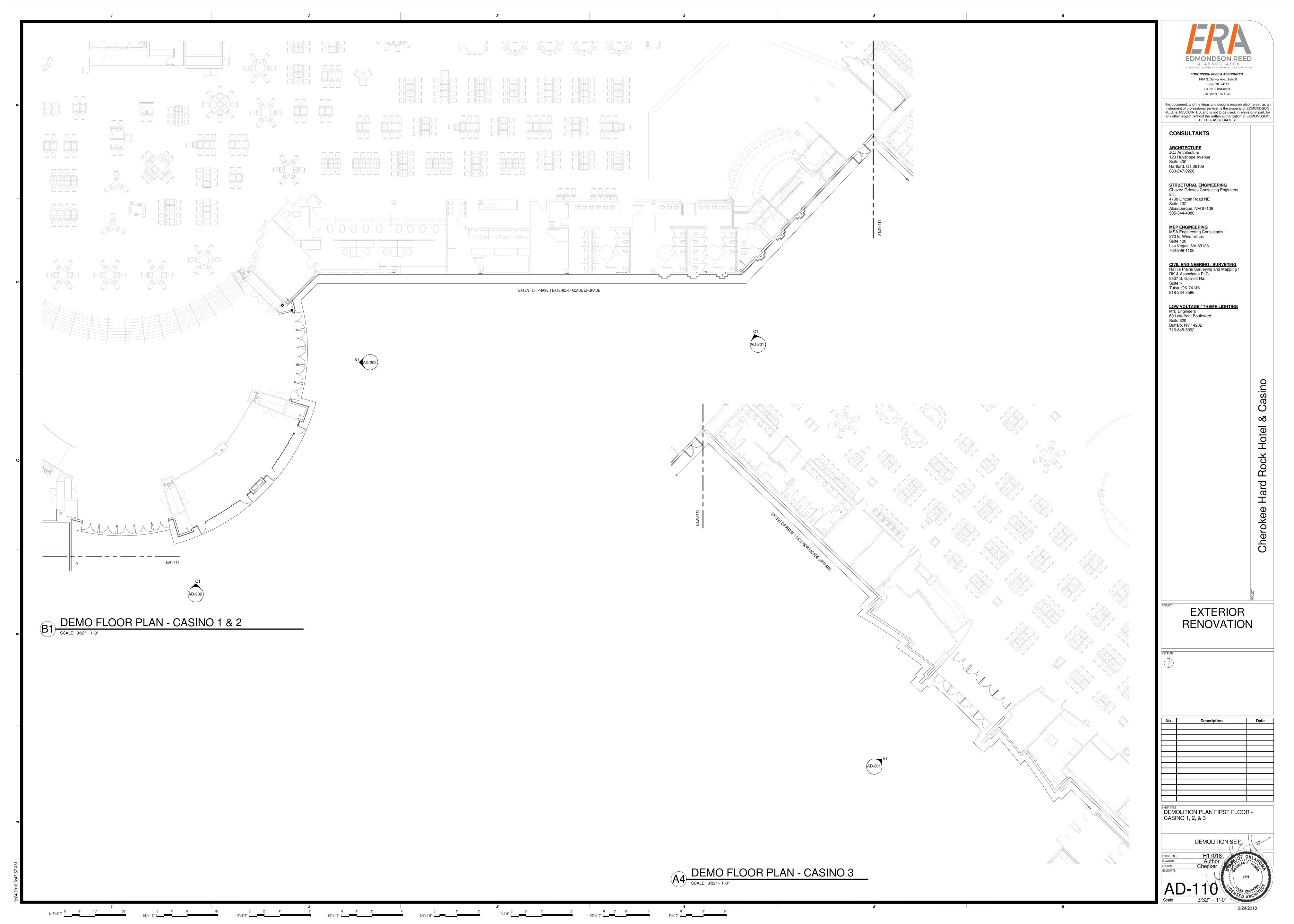
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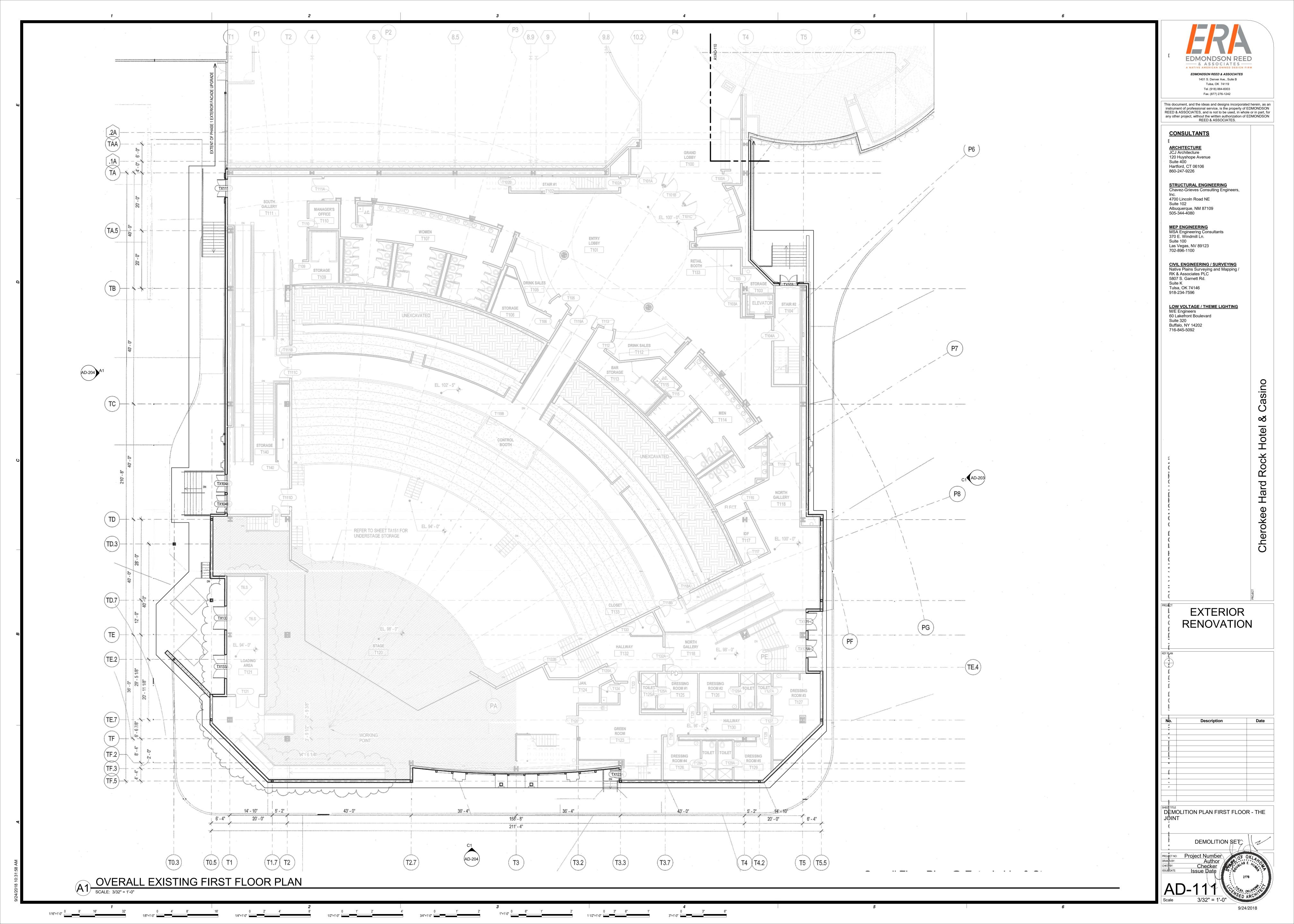
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SHEET INDEX





C1 CASINO 2 EAST FACADE



(A1) CASINO 3 SOUTHEAST ELEVATION

EDMONDSON REED

& ASSOCIATES

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Hotel & Cacino

EXTERIOR FACADE RENOVATION

NORTH

BULLETIN 01 04/24/2019

DEMOLITION ELEVATIONS

CONSTRUCTION SET



4/24/20



# C1 CASINO 1 ENTRY EAST ELEVATION



(A1) CASINO 1 ENTRY NORTH ELEVATION

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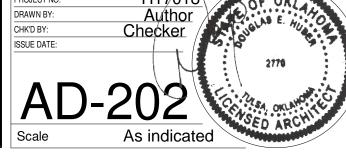
Hotel &

#### **EXTERIOR** RENOVATION

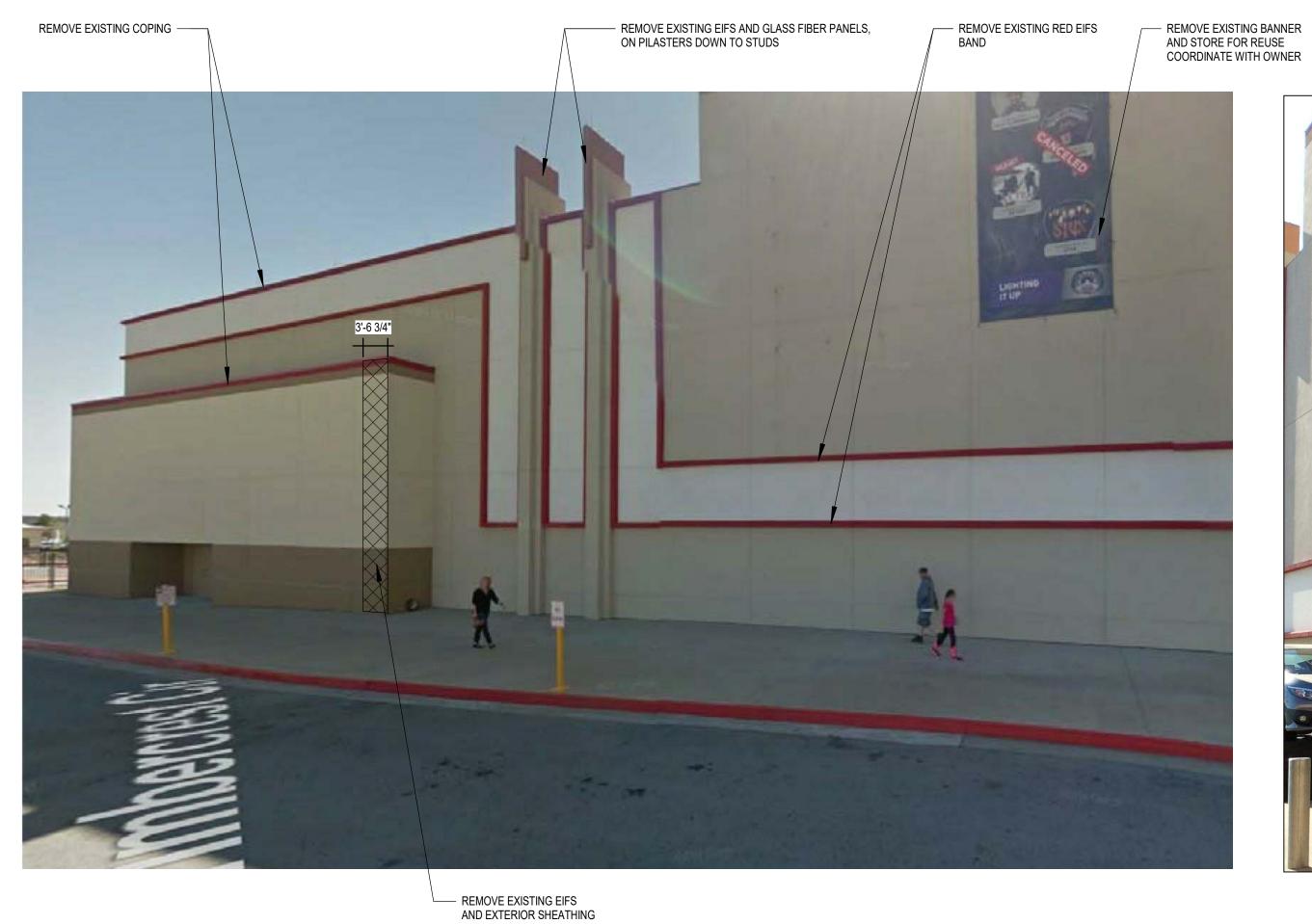
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DEMOLITION ELEVATIONS

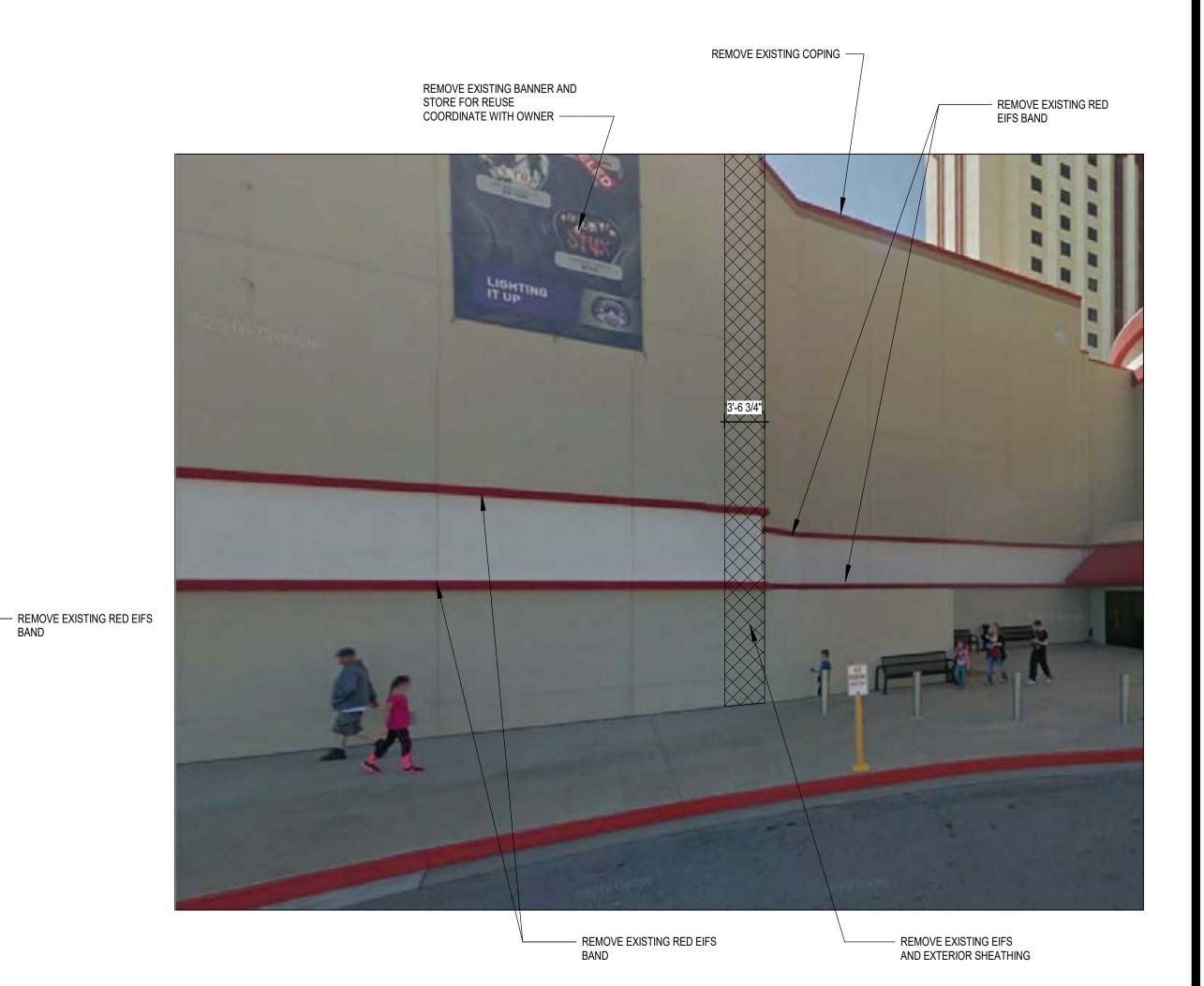
DEMOLITION SETS



C1 SOUTH ELEVATION - DEMOLITION







SOUTH ELEVATION B - DEMOLITION

SOUTH ELEVATION C - DEMOLITION



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**EXTERIOR** RENOVATION

Description

DEMOLITION ELEVATIONS

DEMOLITION SET

SOUTH ELEVATION A - DEMOLITION



C1 EAST ELEVATION - DEMOLITION



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#### **EXTERIOR** RENOVATION

Description

SHEET TITLE
DEMOLITION ELEVATIONS

DEMOLITION SET

NORTH ELEVATION - DEMOLITION

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EXTERIOR

(U

ABBREVIATIONS AND LEGEND

SEISMIC RESPONSE COEFFICIENT
RESPONSE MODIFICATION FACTOR
DESIGN BASE SHEAR
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORC
ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

FUTURE BUILDING EXPANSION: NONE

FROST DEPTH = 24 INCHES

1 SECOND PERIOD

SHORT PERIOD

1 SECOND PERIOD

SPECTRAL RESPONSE COEFFICIENTS

SEISMIC DESIGN CATEGORY

BASIC SEISMIC FORCE RESISTING SYSTEM:

SITE CLASS

DRILLED PIER DESIGN INFORMATION: PIER CAPACITY CRITERIA: WEATHERED SHALE

ALLOWABLE END BEARING IN SHALE=9,000 PSF ALLOWABLE SKIN FRICTION TO RESIST UPLIFT IN SHALE=650 PSF MINIMUM SOCKET INTO SHALE 3 FEET OR ONE PIER DIAMETER, WHICHEVER IS GREATER.

STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

#### **GENERAL**:

STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.

S1=0.071G

SDS=0.105G

SD1=0.080G

CS=0.044

V = 0.044W

R = 3

COORDINATE DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, BLOCKOUTS, ETC. WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, PROJECT SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL. THE STRUCTURAL DRAWINGS ONLY REPRESENT A PORTION OF THE REQUIREMENTS FOR THE PROJECT.

SEE ARCHITECTURAL PLANS FOR INTERIOR NON-BEARING PARTITION WALLS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 FOR FLOOR FRAMING AND SPAN/240 FOR ROOF FRAMING.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.

SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS

STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.

TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE

STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.

NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

BACKFILL SHALL NOT BE PLACED BEHIND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED 100 PERCENT OF DESIGN STRENGTH.

BACKFILL SHALL NOT BE PLACED BEHIND BASEMENT WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF DESIGN STRENGTH AND THE ELEVATED FLOOR PROVIDING LATERAL SUPPORT AT THE TOP OF THE WALL IS COMPLETELY CONSTRUCTED, OR TEMPORARY BRACING/SHORING OF THE WALL IS PROVIDED. DESIGN OF ANY TEMPORARY WALL BRACING/SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.

REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

THE CONTRACTOR SHALL SUBMIT FOR PRIOR APPROVAL THE END OF POUR LOCATIONS FOR CONCRETE GRADE BEAMS, CONCRETE COLUMNS, AND CONCRETE BEAMS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA, INCLUDING THE FOLLOWING REQUIREMENTS FROM STANDARDS - 29 CFR, SECTION 1926, SUBPART R:

A. THE STEEL ERECTION CONTRACTOR SHALL NOT ERECT STEEL UNLESS THEY HAVE RECEIVED WRITTEN NOTIFICATION FROM THE CONTRACTOR THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED, ON THE BASIS OF AN APPROPRIATE ASTM STANDARD TEST METHOD OF FIELD-CURED SAMPLES, EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.

PROVIDE STRUCTURAL ENGINEER A COPY OF WRITTEN NOTIFICATION WHEN IT IS PROVIDED TO THE

B. ANCHOR RODS (ANCHOR BOLTS) SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.

PRIOR TO ERECTION OF COLUMNS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE STEEL ERECTOR IF THERE HAS BEEN ANY REPAIR, REPLACEMENT OR MODIFICATION OF THE ANCHOR RODS (ANCHOR BOLTS).

PROVIDE STRUCTURAL ENGINEER A COPY OF WRITTEN NOTIFICATION WHEN IT IS PROVIDED TO THE STEEL ERECTOR.

C. NO MODIFICATION THAT AFFECTS THE STRENGTH OF A STEEL JOIST OR STEEL JOIST GIRDER SHALL

BE MADE WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.

D. METAL DECKING HOLES AND OPENINGS SHALL NOT BE CUT UNTIL IMMEDIATELY PRIOR TO BEING PERMANENTLY FILLED WITH THE EQUIPMENT OR STRUCTURE, OR SHALL BE IMMEDIATELY COVERED.

#### GENERAL STRUCTURAL NOTES

PROTECTION: PROPER PRECAUTIONS SHALL BE TAKEN AT ALL TIMES TO PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC FROM ANY DAMAGE OR INJURY WHICH MAY BE CAUSED, EITHER DIRECTLY OR INDIRECTLY, BY THE WORK INCLUDED ON THESE DRAWINGS. SUCH PRECAUTIONS SHALL INCLUDE THE ERECTION AND MAINTENANCE OF FENCES, BARRICADES, RAILINGS, GUARDS, SIGNS, COVERINGS, LIGHTS, AND OTHER PRECAUTIONS AS MAY BE REQUIRED. IF AT ANY TIME, IN THE OPINION OF THE OWNER OR THE OWNER'S REPRESENTATIVE, PROPER PRECAUTIONS ARE NOT BEING TAKEN TO SECURE THIS PROTECTION, THE CONTRACTOR SHALL AT NO ADDITIONAL COST TO THE OWNER, INSTALL AND MAINTAIN SUCH ADDITIONAL PROTECTION AS MAY BE DIRECTED BY THE OWNER.

POLLUTION CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

#### TYPICAL DETAIL SHEETS:

THE S-700 SERIES SHEETS IN THESE DRAWINGS CONTAIN TYPICAL STRUCTURAL DETAILS FOR VARIOUS BUILDING MATERIALS. SOME OF THESE DETAILS MAY NOT BE PART OF THIS PROJECT.

#### DRAWINGS:

DO NOT SCALE DRAWINGS.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED "TYPICAL" APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

#### FAST-TRACK/PHASED CONSTRUCTION:

THE STRUCTURAL PORTION OF THIS PROJECT IS BEING DESIGNED, BID, PERMITTED, AND CONSTRUCTED PRIOR TO THE COMPLETION OF ARCHITECTURAL, ENGINEERING, AND OTHER DESIGN TEAM CONSTRUCTION DOCUMENTS. THE OWNER, ARCHITECT, AND CONTRACTOR SHALL BE AWARE THAT THIS ACCELERATED STRUCTURAL SCHEDULE CREATES INHERENT RISK OF FUTURE CHANGES DUE TO DESIGN COORDINATION WITH OTHER DISCIPLINES. WHILE EVERY EFFORT HAS BEEN MADE TO MINIMIZE THESE CHANGES, THE RISK OF ADDED COSTS DUE TO THESE CHANGES SHALL BE UNDERSTOOD AND ACCEPTED BY ALL PARTIES.

DRAWINGS THAT DO NOT HAVE AN ENGINEERING SEAL BY THE STRUCTURAL ENGINEER OF RECORD OR NOT LABELED AS CONSTRUCTION DRAWINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. IF THESE DOCUMENTS ARE BEING USED FOR PRICING, BIDDING, STEEL MILL ORDER, OR PREPARATION OF SHOP DRAWINGS, THE CONTRACTOR SHALL ANTICIPATE FUTURE DRAWING REVISIONS THAT MAY AFFECT THIS WORK OR INCREASE CONSTRUCTION COSTS. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY CHANGE ORDER COSTS INCURRED DUE TO THESE DRAWING REVISIONS, AND THE CONTRACTOR SHALL CONSIDER THESE ANTICIPATED COSTS IN ANY BIDS OR PRICE GUARANTEES TO THE OWNER.

USE THE MOST CURRENT SET OF DRAWINGS IN PREPARATION OF ALL SUBMITTALS. ALL SUBMITTALS SHALL LIST THE DATE OF THE DRAWINGS USED TO PREPARE THE SUBMITTAL. SUBMITTALS PREPARED FROM OUTDATED DRAWINGS MAY BE REJECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING THE LATEST SET OF CONSTRUCTION DRAWINGS AND DISTRIBUTING TO THE APPROPRIATE PARTIES.

#### CAST-IN-PLACE CONCRETE:

ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-05.

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

#### NORMALWEIGHT CONCRETE:

- A. F'C = 4500 PSI @ 28 DAYS ALL CONCRETE EXPOSED TO FREEZE/THAW CYCLES AND OCCASIONAL MOISTURE, INCLUDING CONCRETE FLAT WORK, EXPOSED BUILDING STEM WALLS, SITE WALLS, ETC... EXTERIOR CONCRETE SHALL MEET EXPOSURE CATEGORY AND CLASS F1 ACCORDING TO ACI 318 TABLE 19.3.1.1
- B. F'C = 3000 PSI @ 28 DAYS ALL INTERIOR CONCRETE (I.E. FOOTINGS, PEDESTALS, TIE BEAMS, GRADE BEAMS, RETAINING WALLS, ETC.).

BEAMS, RETAINING WALLS, ETC.).

C. F'C = 3000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE. UNLESS NOTED OTHERWISE.

CONCRETE MIX DESIGNS (INCLUDING AIR CONTENT, WATER TO CEMENT RATIOS, AND OTHER CRITERIA) SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN ACI 318 TABLE 4.3.1, BASED ON THE EXPOSURE CATEGORIES AND CLASSES DEFINED IN ACI 318 TABLE 4.2.1. USE AIR ENTRAINING ADMIXTURE IN ALL EXTERIOR CONCRETE. AIR CONTENT IN FIRE RATED SLABS SHALL ALSO COMPLY WITH THE REQUIREMENTS IN THE SPECIFIED UL LISTING.

COLD WEATHER CONCRETING: PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH CAUSED BY FROST, FREEZING OR LOW TEMPERATURES. COMPLY WITH ACI 306.1.

HOT WEATHER CONCRETING: WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD IMPAIR THE QUALITY AND STRENGTH OF THE CONCRETE, REDUCE DELIVERY TIME OF READY MIX CONCRETE, LOWER THE TEMPERATURE OF MATERIALS, OR ADD RETARDER TO ENSURE THAT THE CONCRETE IS PLASTIC. RETEMPERING WITH WATER IS NOT ALLOWED. COMPLY WITH ACI 305R.

THE CONTRACTOR IS ALLOWED TO CAST FOUNDATIONS AGAINST EXCAVATED SOIL SURFACES, PROVIDED THE FOLLOWING IS ADHERED TO:

- A. THE SIDE SLOPES OF THE EXCAVATION SHALL BE ABLE TO MAINTAIN VERTICAL SLOPE WITHOUT SOIL
- SLOUGHAGE.

  B. THE BOTTOM WIDTH OF THE EXCAVATION SHALL BE ONE INCH WIDER MINIMUM ON EACH SIDE THAN THE SPECIFIED FOOTING WIDTH.
- C. THE SIDE WALLS OF THE EXCAVATION SHALL BE BATTERED A MINIMUM OF ONE INCH HORIZONTAL TO TWELVE INCHES VERTICAL.
- D. IF SANDY OR LOOSE MATERIALS ARE ENCOUNTERED, THE FOOTING MUST BE FORMED.
   E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY SOIL SLOUGHAGE FROM THE WET.
- CONCRETE DURING THE CASTING OPERATION.

  F. THE CONTRACTOR AGREES TO REMOVE AND RECAST ANY FOOTING WHERE THE ABOVE CONDITIONS
- ARE NOT MET.

EXPOSED SITE WALLS, RETAINING WALLS, AND STEM WALLS GREATER THAN 30 FEET IN LENGTH SHALL

HAVE CONTROL JOINTS INSTALLED AT THE FOLLOWING MAXIMUM SPACING:

12'-0" ON CENTER FOR WALLS 6'-0" MAXIMUM HEIGHT

18'-0" ON CENTER FOR WALLS 10'-0" MAXIMUM HEIGHT 20'-0" ON CENTER FOR WALLS GREATER THAN 10'-0" IN HEIGHT

ALL CONCRETE EXPOSED TO GROUND SHALL BE MANUFACTURED WITH PORTLAND CEMENT TYPE II OR TYPE

#### SEE SHEET S-711 FOR TYPICAL CONCRETE DETAILS.

POSITION DURING CONCRETE PLACEMENT.

#### DRILLED PIERS:

COMPLY WITH PROVISIONS OF AMERICAN CONCRETE INSTITUTE (ACI) "STANDARD SPECIFICATION FOR CONSTRUCTION OF DRILLED PIERS" (ACI 336.1).

DESIGN CONCRETE MIX IN ACCORDANCE WITH CHAPTER 3 OF ACI 301 TO PRODUCE CONCRETE FOR DRILLED PIERS WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.

CONCRETE MIX SHALL HAVE AIR-ENTRAINMENT AT POINT OF PLACEMENT HAVING 4% TO 6% AIR CONTENT, A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE A, AND A SLUMP DURING PLACEMENT

BETWEEN 4" AND 6".

REINFORCING STEEL AND DOWELS SHALL CONFORM TO ASTM A615, GRADE 60. FABRICATE AND ERECT
REINFORCING CAGES IN SHAFTS AS ONE CONTINUOUS UNIT USING INNER RING REINFORCING STEEL. PLACE
REINFORCEMENT ACCURATELY AND SYMMETRICALLY ABOUT AXIS OF HOLE AND HOLD SECURELY IN

EXCAVATE HOLES FOR DRILLED PIERS TO DEPTH AS SHOWN ON DRAWINGS. DRILLED PIER DESIGN DIMENSIONS SHOWN ARE MINIMUMS. VERIFY BY INSPECTION AND MEASUREMENT THAT THE EXCAVATIONS ARE OPEN TO DESIGN DEPTH FOR EACH DRILLED PIER. TWO ADDITIONAL PASSES SHALL BE MADE TO CLEAN LOOSE MATERIAL AT BOTTOM OF EXCAVATIONS.

THE OWNER SHALL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER UNDER WHOSE SUPERVISION FULL-TIME INSPECTION OF THE DRILLING AND CASTING OF THE PIERS WILL BE

THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST 24 HOURS PRIOR TO THE TIME EXCAVATIONS WILL BE DRILLED.

FILL DRILLED PIERS WITH CONCRETE IMMEDIATELY AFTER INSPECTION AND APPROVAL BY GEOTECHNICAL ENGINEER. NO EXCAVATION SHALL STAND OPEN FOR MORE THAN 8 HOURS.

CONCRETE SHALL BE PLACED THROUGH A HOPPER CENTERED IN THE REINFORCING CAGE SO THAT CONCRETE DOES NOT HIT REINFORCING OR SIDES OF HOLE. LET CONCRETE FREE-FALL FOR ENTIRE DEPTH OF SHAFT. PLACE CONCRETE CONTINUOUSLY AND IN A SMOOTH FLOW WITHOUT SEGREGATING. PROVIDE MECHANICAL VIBRATION FOR CONSOLIDATION OF TOP 5' OF EACH SHAFT. PLACE CONCRETE IN-THE-DRY UNLESS PLACING UNDER WATER IS ACCEPTABLE TO ENGINEER OF RECORD.

STOP CONCRETE PLACEMENT AT CUT-OFF ELEVATION SHOWN, SCREED LEVEL, AND APPLY A SCOURED,

#### **GENERAL STRUCTURAL NOTES**

#### REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14), AND DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-99).

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60; EXCEPT STIRRUPS, TIES AND INDICATED FIELD-BENT BARS, WHICH SHALL CONFORM TO ASTM A615 GRADE 40.

ALL WELDED WIRE FABRIC SHALL BE DEFORMED AND SHALL CONFORM TO ASTM A479. PROVIDE IN FLAT SHEETS ONLY.

TENSION AND COMPRESSION LAPS IN REINFORCING SHALL CONFORM TO THE LAP SPLICE SCHEDULE ON SHEET S-601 AND BE IN ACCORDANCE WITH ACI 318, CHAPTER 25, UNLESS NOTED OTHERWISE.

ALL HORIZONTAL REINFORCING IN FOOTINGS, WALLS AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE BENT (CORNER) BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP 30 BAR DIAMETERS (24" MINIMUM).

CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

  B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER:
- B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER:1. BARS LARGER THAN NO. 5: 2"
- C. CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH GROUND:1. STRUCTURAL SLABS, WALLS AND JOISTS (NO. 11 AND SMALLER): 3/4"
- D. SLAB ON GRADE: 1 1/2" FROM TOP OF SLAB

  E. STRUCTURAL SLABS ON METAL DECK: 1" FROM TOP OF SLAB

2. BARS NO. 5 OR SMALLER: 1 1/2"

FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL. FOLLOWING REMOVAL OF FORM TIES, RECESSES ARE TO BE CAREFULLY FILLED AND POINTED WITH MORTAR.

REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.

CHAIRS WITH 22 GAGE SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF

BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99.

### CONCRETE IN CONTACT WITH GRADE. POST INSTALLED ANCHORS:

REQUIRED CONNECTION.

THE STRUCTURAL DESIGN IS BASED ON THE POST INSTALLED ANCHORING SYSTEMS NOTED BELOW. SINCE ANCHOR CAPACITIES VARY BY MANUFACTURER, THE CONTRACTOR SHALL USE ONLY THE SYSTEMS NOTED BELOW UNLESS AN ALTERNATE IS APPROVED BY THE ENGINEER OF RECORD. ALTERNATE ANCHORING SYSTEMS MAY REQUIRE RE-DESIGN TO VERIFY ANCHOR QUANTITIES, SPACING, AND EMBED DEPTHS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL CONSTRUCTION AND RE-DESIGN COSTS ASSOCIATED WITH THE ALTERNATE ANCHORING SYSTEM.

ALL ADHESIVE (EPOXY) FOR POST INSTALLED ANCHORS AND/OR REBAR INTO CONCRETE SHALL BE SIMPSON SET-XP EPOXY-TIE ANCHORING SYSTEM. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL POST INSTALLED MECHANICAL ANCHORS INTO CONCRETE SHALL BE SIMPSON TITEN HD SCREW ANCHOR. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ANCHOR LENGTHS SHOWN FOR ATTACHMENT TO CONCRETE AND/OR MASONRY ARE REQUIRED EMBEDMENT LENGTHS. THE CONTRACTOR SHALL PROVIDE ANCHORS WITH ADDITIONAL LENGTH TO FACILITATE THE

SUBMIT ALL PROPOSED ANCHORING SYSTEMS INCLUDING ICC-ES REPORTS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION. THE ICC-ES FORMS SHALL MEET THE REQUIREMENTS OF THE IBC

#### STRUCTURAL AND MISCELLANEOUS STEEL:

ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

ALL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, GRADE 50, UNLESS NOTED OTHERWISE.

ALL MISCELLANEOUS STEEL MEMBERS, SUCH AS CHANNELS, ANGLES, FLAT BARS, AND PLATES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.

ALL RECTANGULAR AND SQUARE STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 KSI OR ASTM 1085, GRADE B, FY = 50 KSI.

BOLTS SHALL CONFORM TO ASTM A325N TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES

AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF

FRAME CONNECTIONS, AND AT CONNECTIONS DETAILED WITH A325SC BOLTS. AT THESE LOCATIONS, THE

TENSION CONTROL BOLTS, STANDARD A325N BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".

ALL BOLTS SHALL BE INSTALLED IN A SNUG TIGHT CONDITION EXCEPT AT MOMENT CONNECTIONS, BRACED

ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM F1554 GRADE 36 THREADED RODS WITH DOUBLE NUTS. PROVIDE FLAT WASHERS BETWEEN NUTS AND BASEPLATE SURFACES. ANCHOR BOLT LENGTHS SHOWN FOR ATTACHMENT TO CONCRETE AND/OR MASONRY ARE REQUIRED EMBEDMENT LENGTHS. THE CONTRACTOR SHALL PROVIDE ANCHOR BOLTS WITH ADDITIONAL BOLT LENGTH TO FACILITATE THE

REQUIRED CONNECTION.

ANCHOR BOLT FLAT WASHERS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 14-2 OF AISC 360, AISC MANUAL OF STEEL CONSTRUCTION LATEST EDITION.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.

ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME

CUTTING OF HOLES OR ENLARGING OF MISALIGNED HOLES WILL NOT BE ALLOWED.

HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE MADE FROM STEEL CONFORMING TO ASTM A108 AND MEET THE MECHANICAL PROPERTIES OF TYPE B, AS REQUIRED BY CHAPTER 7 OF AWS D1.1 "STRUCTURAL WELDING CODE-STEEL", LATEST EDITION. STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTORS SHALL BE FREE OF PAINT. WELDING PREQUALIFICATION REQUIRED.

## SEE SHEET S-741 FOR TYPICAL STEEL DETAILS. STEEL DECK:

ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE SPECIFICATIONS.

SEE PLANS FOR STEEL DECK TYPE, GAGE, FINISH AND CONNECTIONS.

PROVIDE A MINIMUM OF 1 1/2" BEARING FOR ALL STEEL DECK.

ALL SPLICES AND LAPS SHALL BE A MINIMUM OF 2" IN LENGTH AND SHALL BE LOCATED DIRECTLY ABOVE SUPPORTS.

ALL DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.

#### GLASS CURTAIN WALL SYSTEM:

ALL LATERAL AND GRAVITY SUPPORT FOR THE GLASS CURTAIN WALL SYSTEM SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. SHOP DRAWINGS AND STAMPED CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE ARCHITECT PRIOR TO INSTALLATION.

THE ENGINEER STAMPING THE SHOP DRAWINGS SHALL BE REGISTERED IN THE STATE THAT THE PROJECT IS

THE GLASS CURTAIN WALL SYSTEM SHALL BE LATERALLY SUPPORTED AT ALL INTERMEDIATE HORIZONTAL FRAMING MEMBERS AND ROOF LEVEL.

#### SPECIAL INSPECTION:

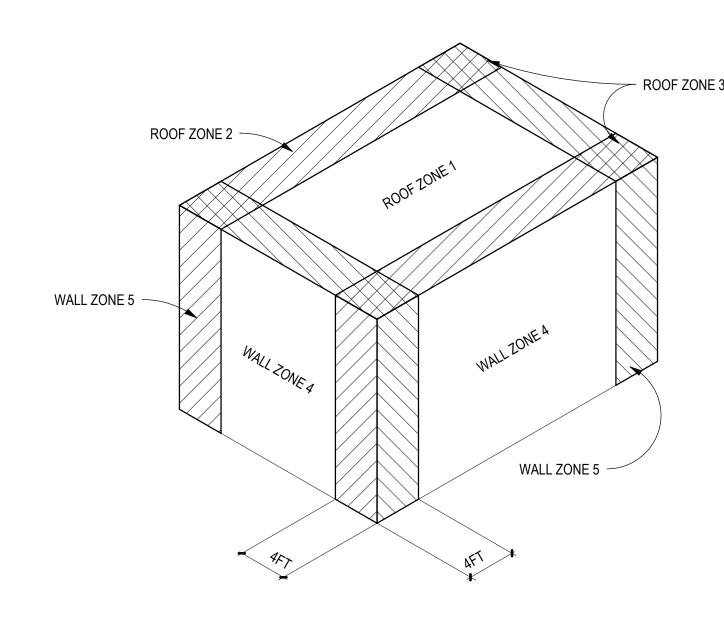
THE OWNER SHALL PROVIDE FOR SERVICES OF A CERTIFIED INSPECTOR (APPROVED BY THE BUILDING OFFICIAL OR THE ENGINEER OF RECORD) IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE SPECIAL INSPECTION ITEMS NOTED ON SHEET S-002.

#### DEFERRED SUBMITTALS:

THE DEFERRED SUBMITTALS LISTED BELOW ARE THOSE PORTIONS OF THE DESIGN THAT ARE NOT COMPLETED AT THE TIME OF APPLICATION AND ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO THE INSTALLATION OF THOSE ITEMS. THE MANUFACTURER, CONSULTANT, OR CONTRACTOR, AS APPROPRIATE, SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW FOR THE FOLLOWING ITEMS:

COLD-FORMED METAL FRAMING CURTAIN WALL AND STOREFRONT GLAZING

#### COMPONENT AND CLADDING WIND LOADS



#### NOTE: WIND LOAD CALCULATIONS ARE PER IBC 2015 LRFD FACTORS

ROOF ZONE 1	- +16 PSF/ -34.8 PSF
ROOF ZONE 2	- +30.2 PSF/ -48.5 PSF
ROOF ZONE 3	- +30.2 PSF/ -48.5 PSF
WALL ZONE 4	- ±30.3 PSF
WALL ZONE 5	- ±34.2 PSF
PARAPET ZONE 4	- ±64.7 PSF
PARAPET ZONE 5	- ±68.5 PSF

#### SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTIONS / TESTING "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM HAVING THE INSPECTIONS OF THE JURISDICTION BUILDING DEPARTMENT PER SECTION 110 OF THE IBC PERFORMED. BOTH THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS AND "SPECIAL STRUCTURAL INSPECTION" SHALL BE
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE JURISDICTION BUILDING OFFICIAL AND SPECIAL INSPECTOR WHEN WORK IS READY FOR INSPECTION.
- 3. REPORTING FOR SPECIAL INSPECTION SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN THREE (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
- 4. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
- 5. SPECIAL INSPECTION OF SHOP FABRICATED MEMBERS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.2, UNLESS FABRICATOR IS APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTION.
- 6. IN ACCORDANCE WITH IBC CHAPTER 17, THE OWNER OR THE OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS, DURING CONSTRUCTION FOR THE TYPES OF WORK LISTED BELOW THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL IDENTIFIED IN IBC SECTION 110

#### 7. DEFINITIONS:

7. DEFINITIONS:

\* \* SPECIAL INSPECTION: INSPECTION AS HEREIN REQUIRED BY A QUALIFIED SPECIAL INSPECTOR COMPETENT WITH

THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS

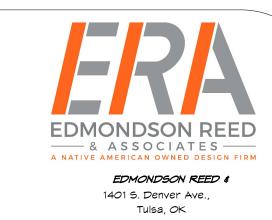
REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND

REFERENCED STANDARDS (SEE SECTION 1704).

\* CONTINUOUS SPECIAL INSPECTION: FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

\* PERIODIC SPECIAL INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

ITEM	DESCRIPTION OF REQUIREMENTS	REQUIRED (YES/NO)
SPECIAL INSPECTION OF STRUCTURAL STEEL	TO BE PERFORMED IN ACCORDANCE WITH CHAPTER N OF AISC360-10	YES
SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.2	YES
SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.3	YES
SPECIAL INSPECTIONS AND VERIFICATIONS FOR MASONRY CONSTRUCTION	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.4 AND REFERENCED STANDARDS	NO
SPECIAL INSPECTIONS AND VERIFICATIONS FOR WOOD CONSTRUCTION	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.5	NO
SPECIAL INSPECTIONS AND VERIFICATIONS OF SOILS	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.6, THE GEOTECHNICAL REPORT LISTED IN THE GENERAL FOUNDATION NOTES, AND ANY OTHER REQUIREMENTS LISTED IN THE GENERAL FOUNDATION NOTES	YES
SPECIAL INSPECTIONS AND VERIFICATIONS FOR DEEP FOUNDATIONS (DRIVEN PILES, CAST-IN-PLACE, OR HELICAL PILES AS APPLICABLE)	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTIONS 1705.7-1705.9 AS APPLICABLE, THE GEOTECHNICAL REPORT LISTED IN THE GENERAL FOUNDATION NOTES, AND ANY OTHER REQUIREMENTS LISTED IN THE CONSTRUCTION DOCUMENTS	YES
SPECIAL INSPECTIONS FOR WIND RESISTANCE (REQUIRED ONLY FOR Vult= 155MPH OR GREATER IN EXPOSURE CATEGORY B, OR Vult=142MPH OR GREATER IN EXPOSURE CATEGORY C OR D)	TO BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.11	NO
SPECIAL INSPECTIONS AND VERIFICATIONS FOR SEISMIC RESISTANCE (REQUIRED FOR STRUCTURES ASSIGNED TO CATEGORIES C, D, E, OR F)	TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PORTIONS OF IBC SECTIONS 1705.12 AND 1705.13	NO



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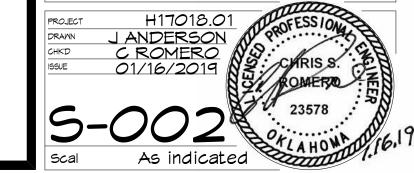
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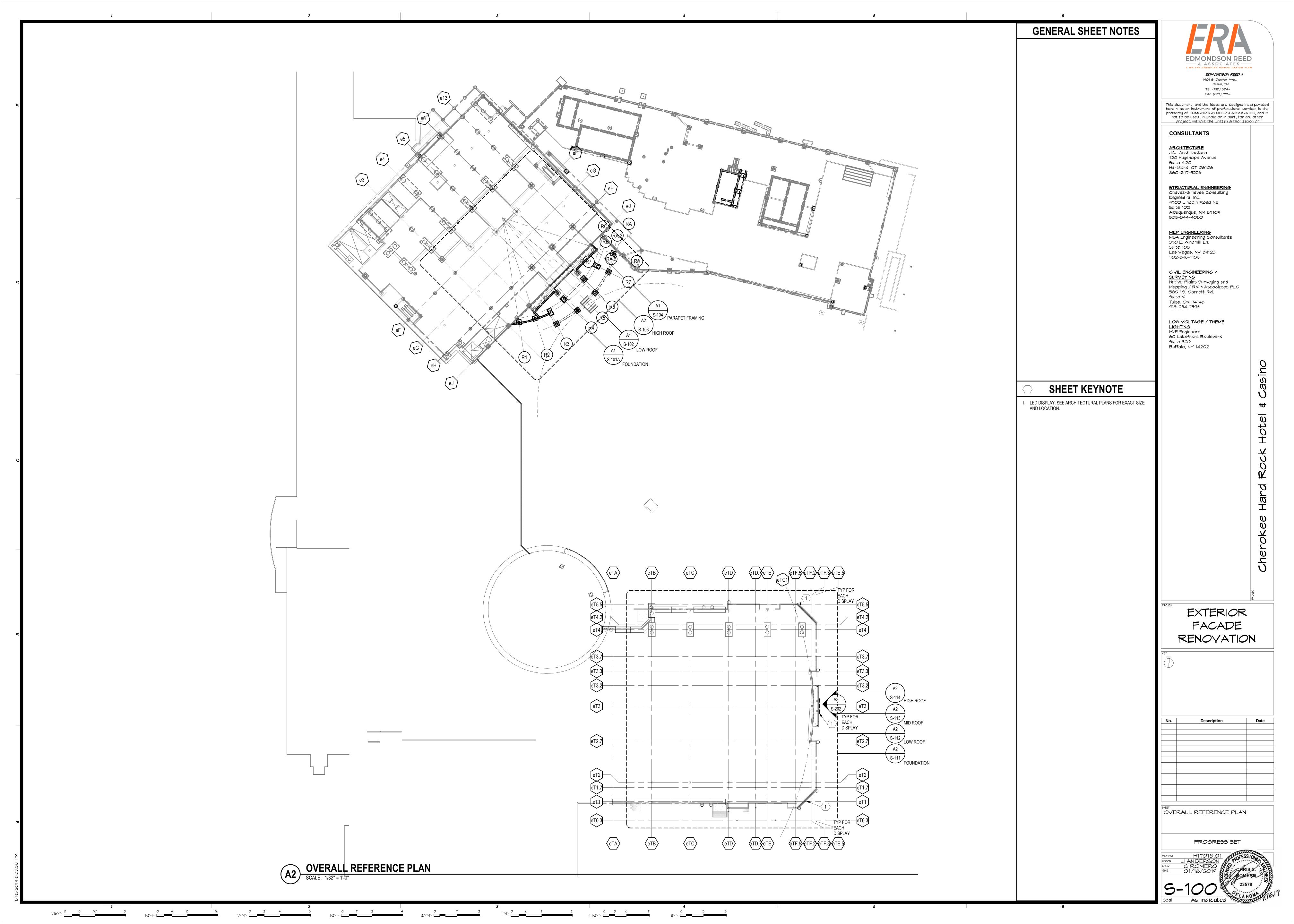
Okee Hard Rock Ho

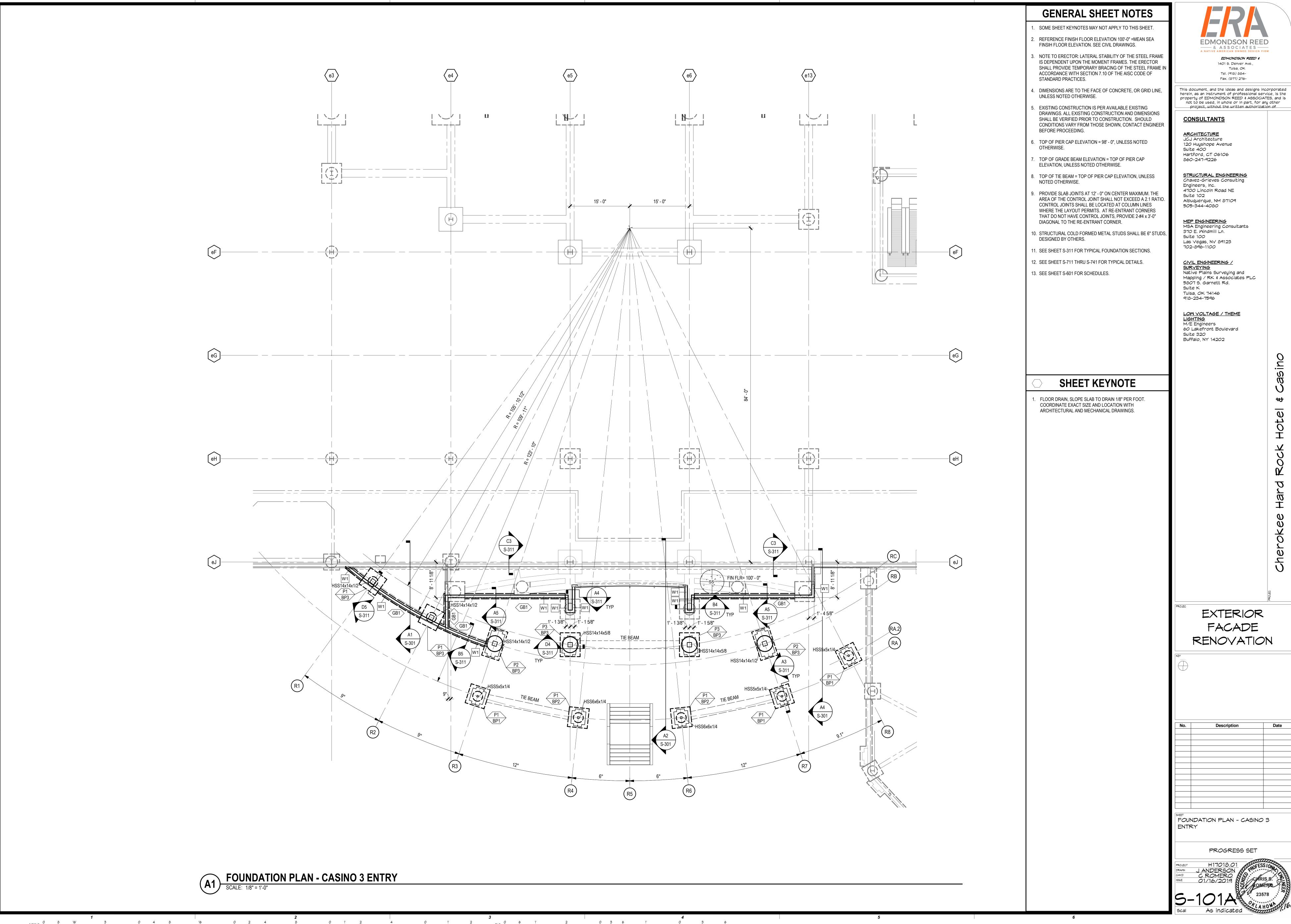
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Description	Date

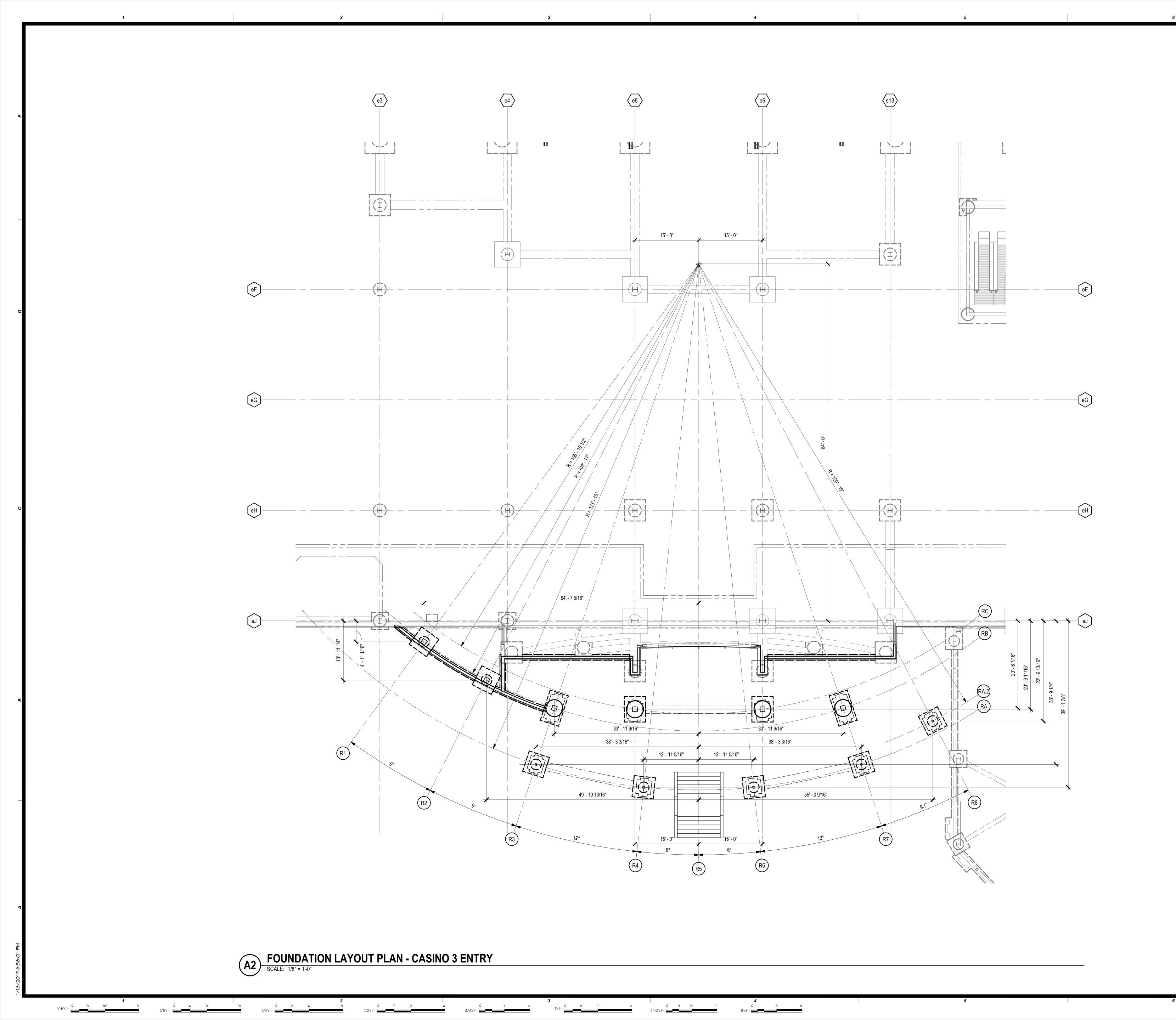
GENERAL STRUCTURAL NOTES

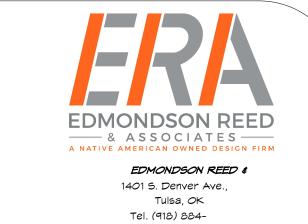






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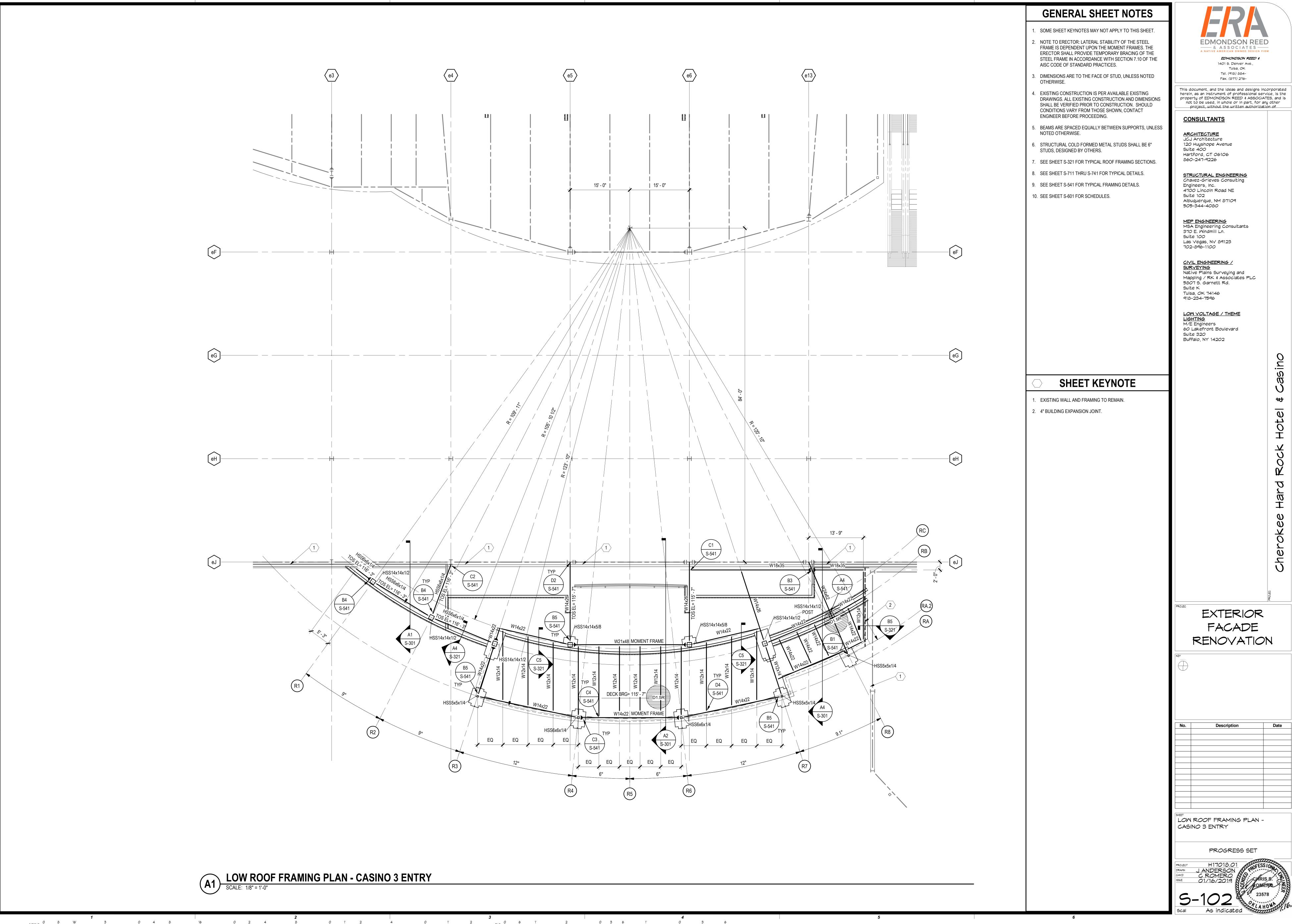
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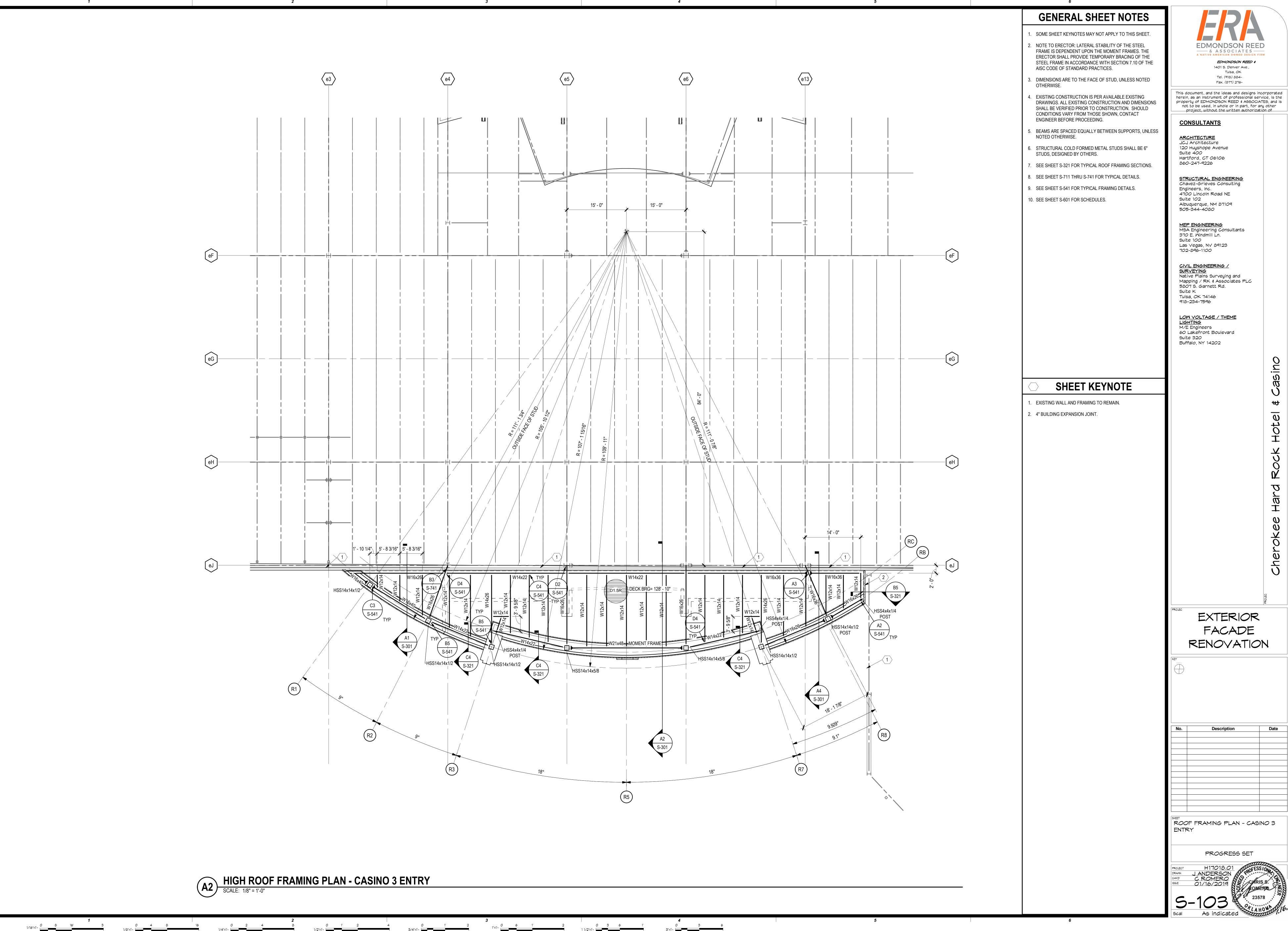
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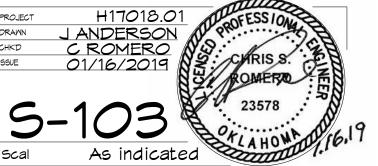
FOUNDATION LAYOUT PLAN -CASINO 3 ENTRY

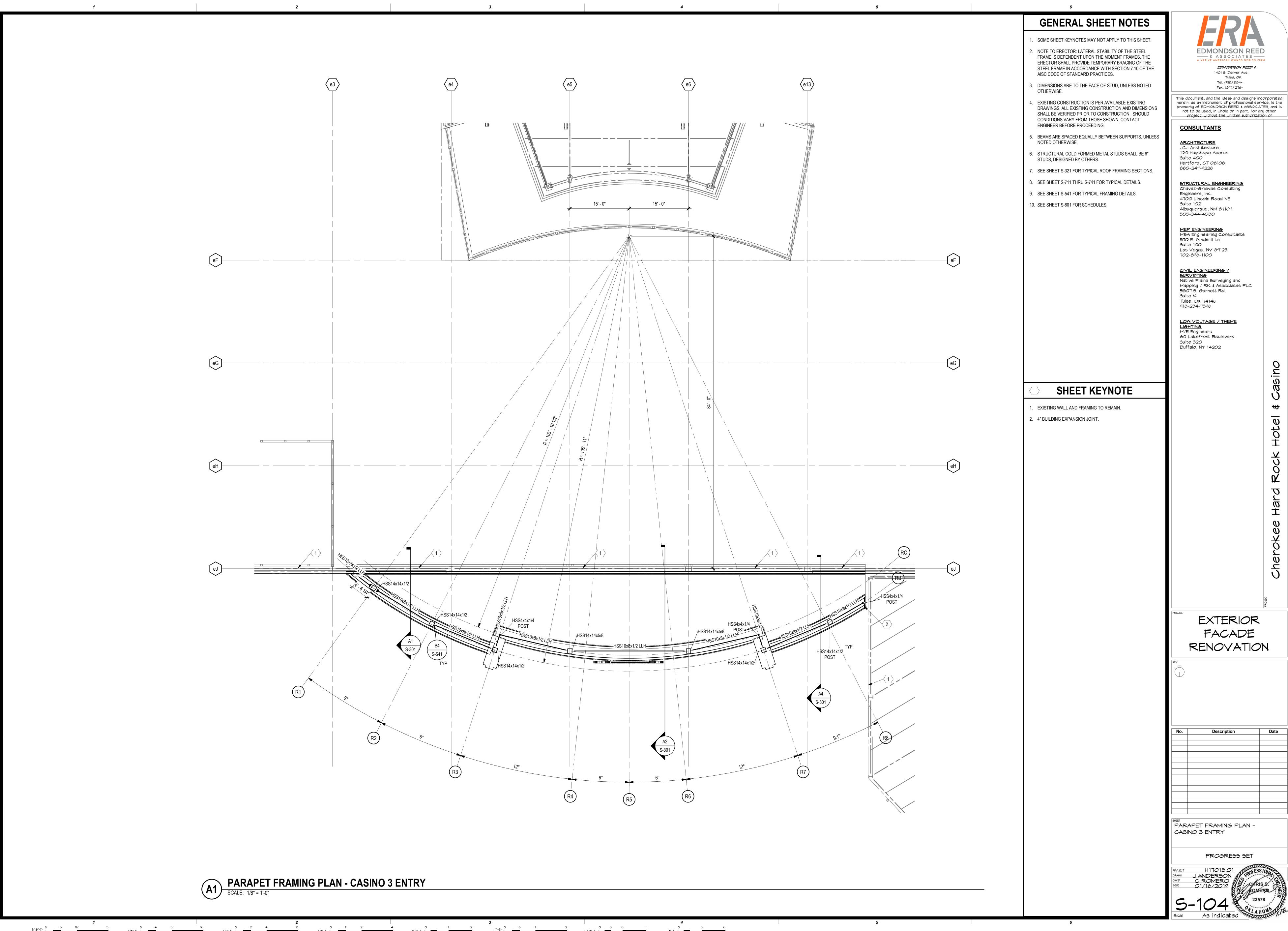




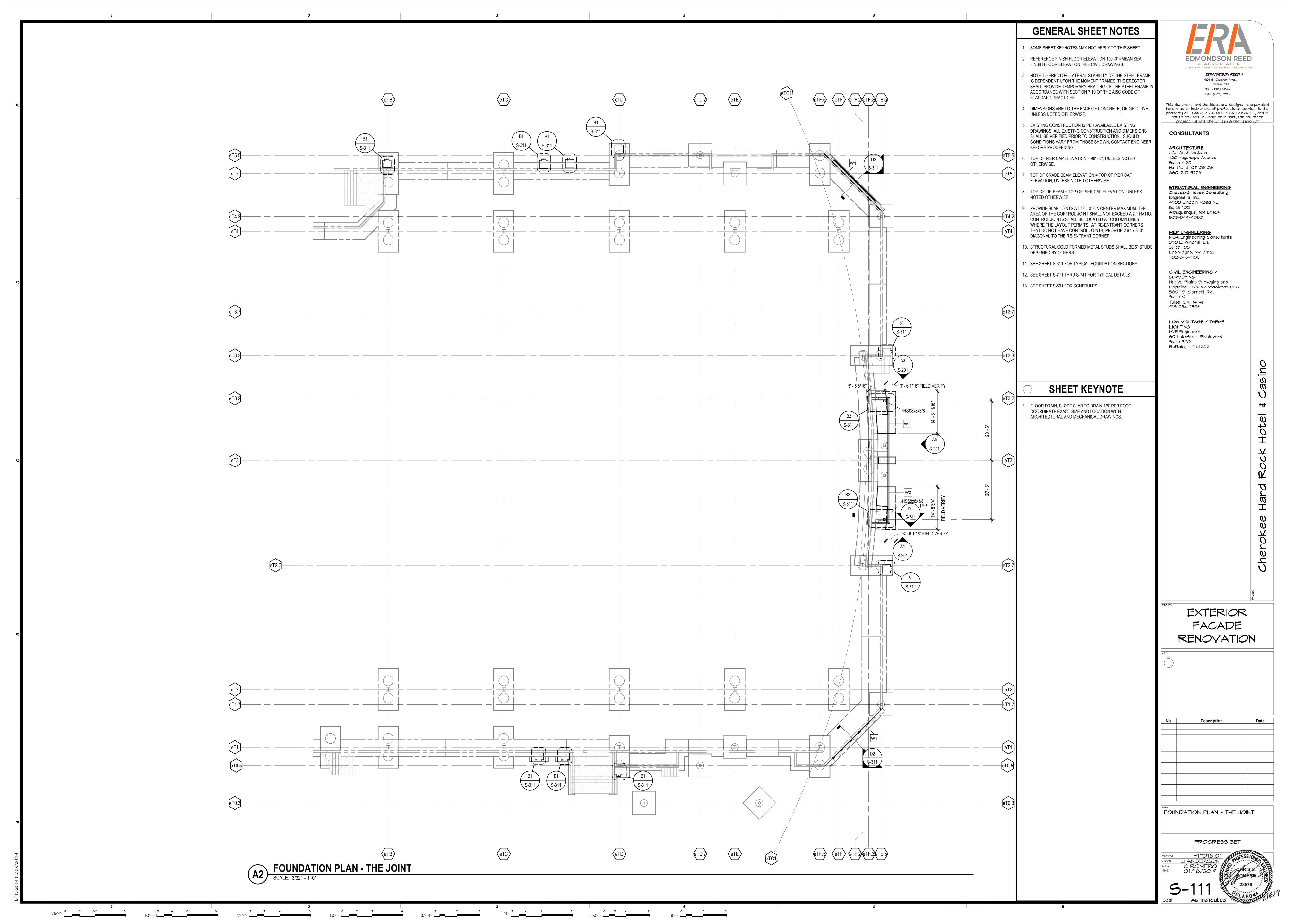


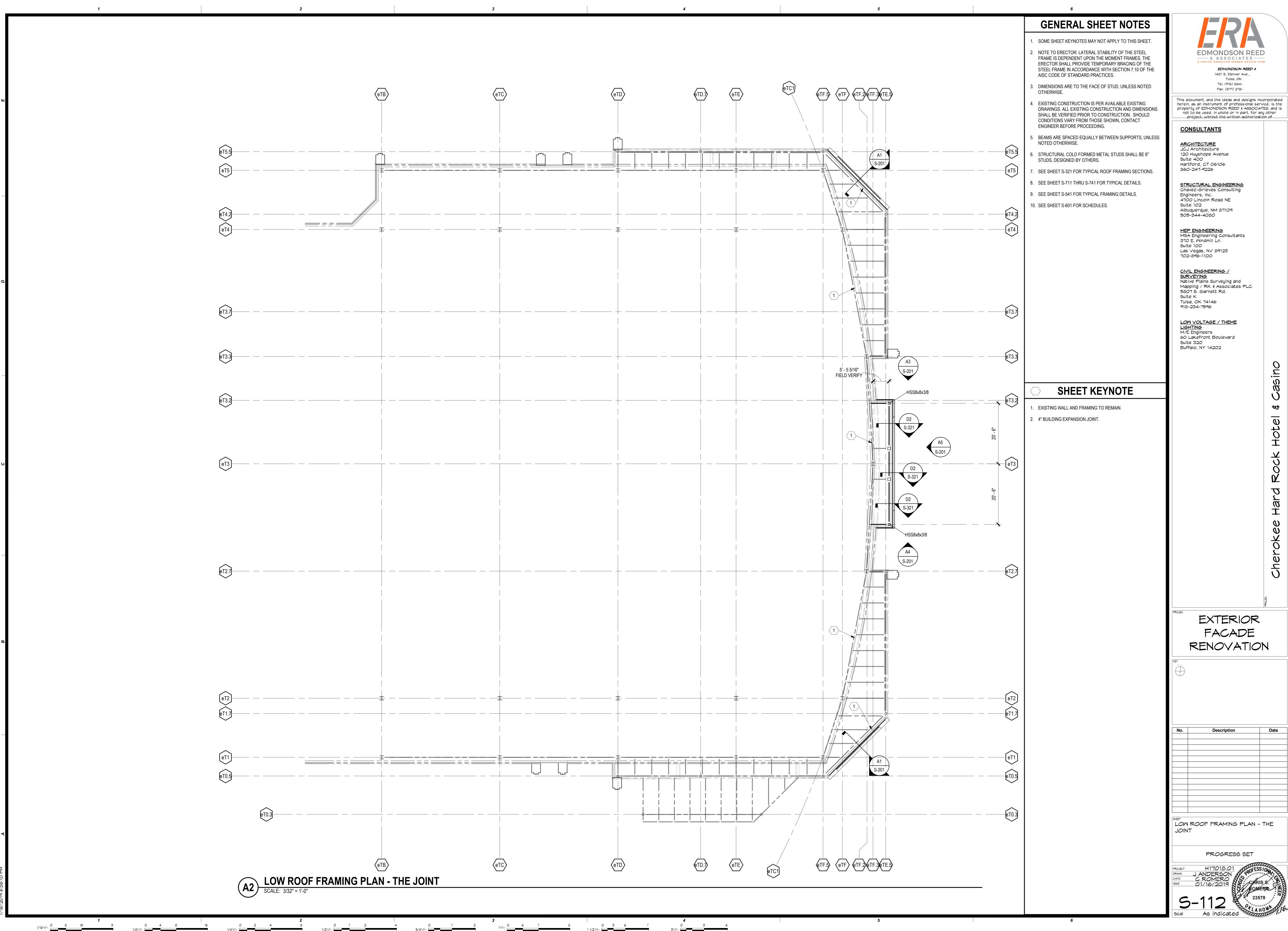


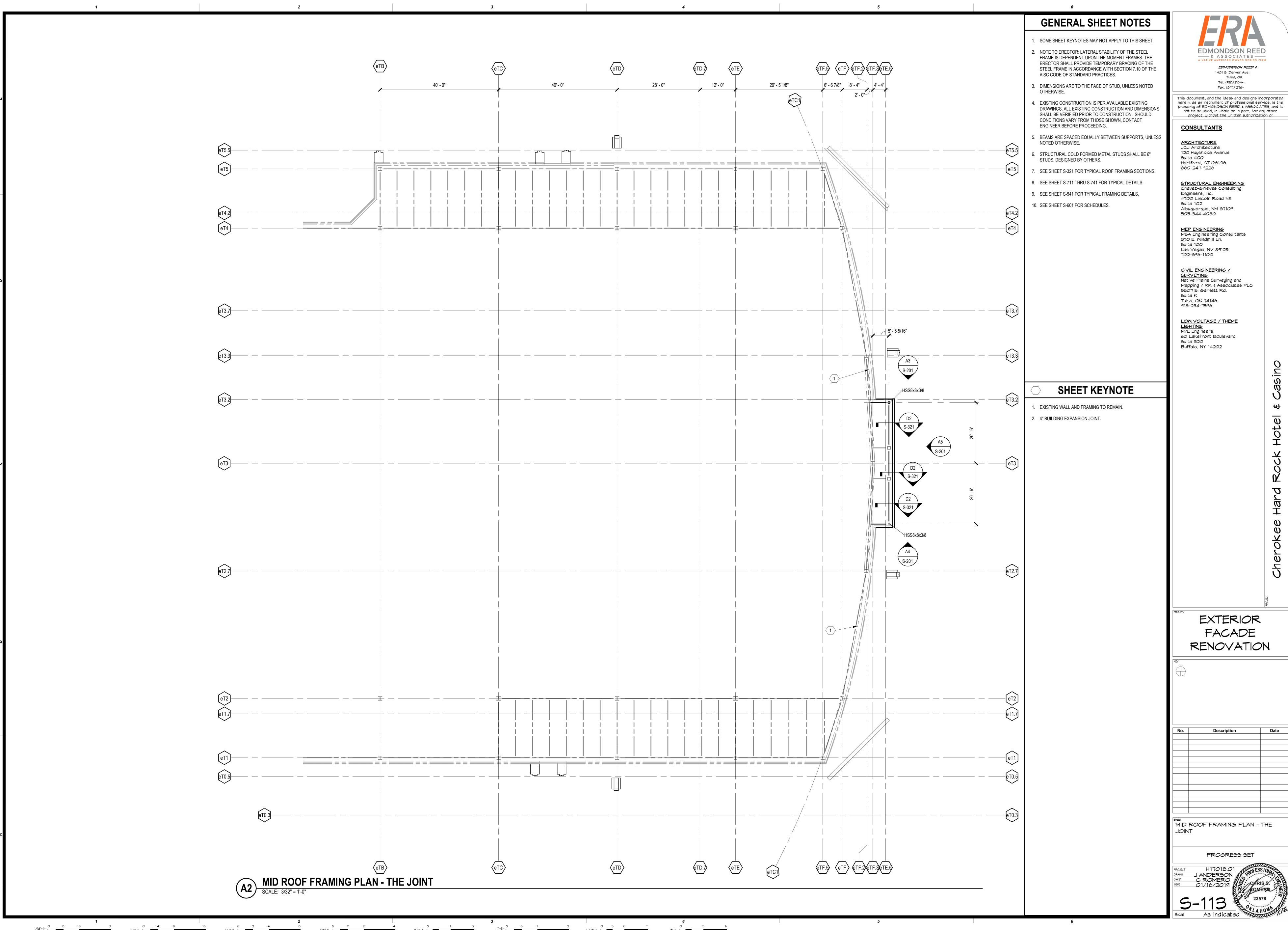


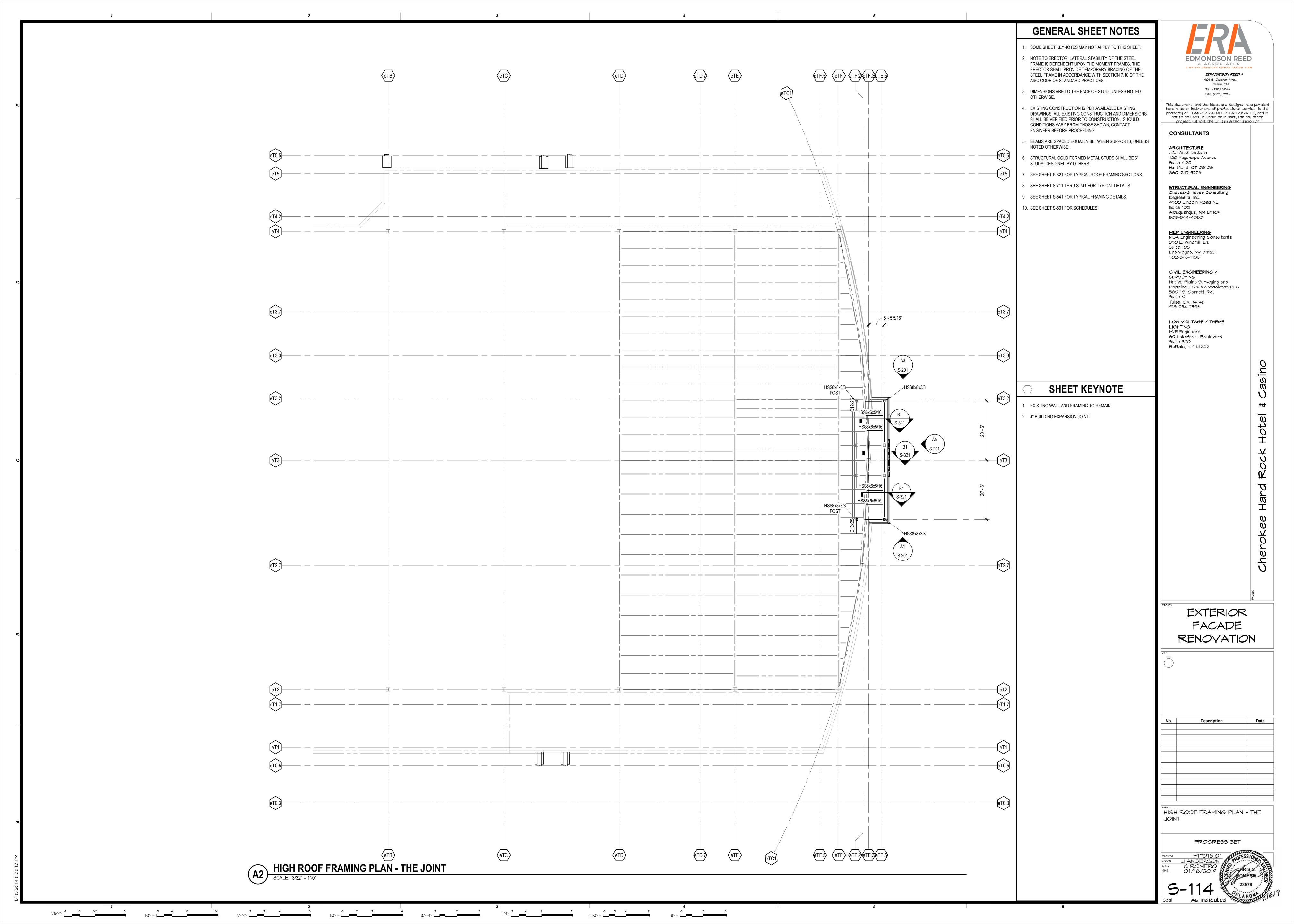


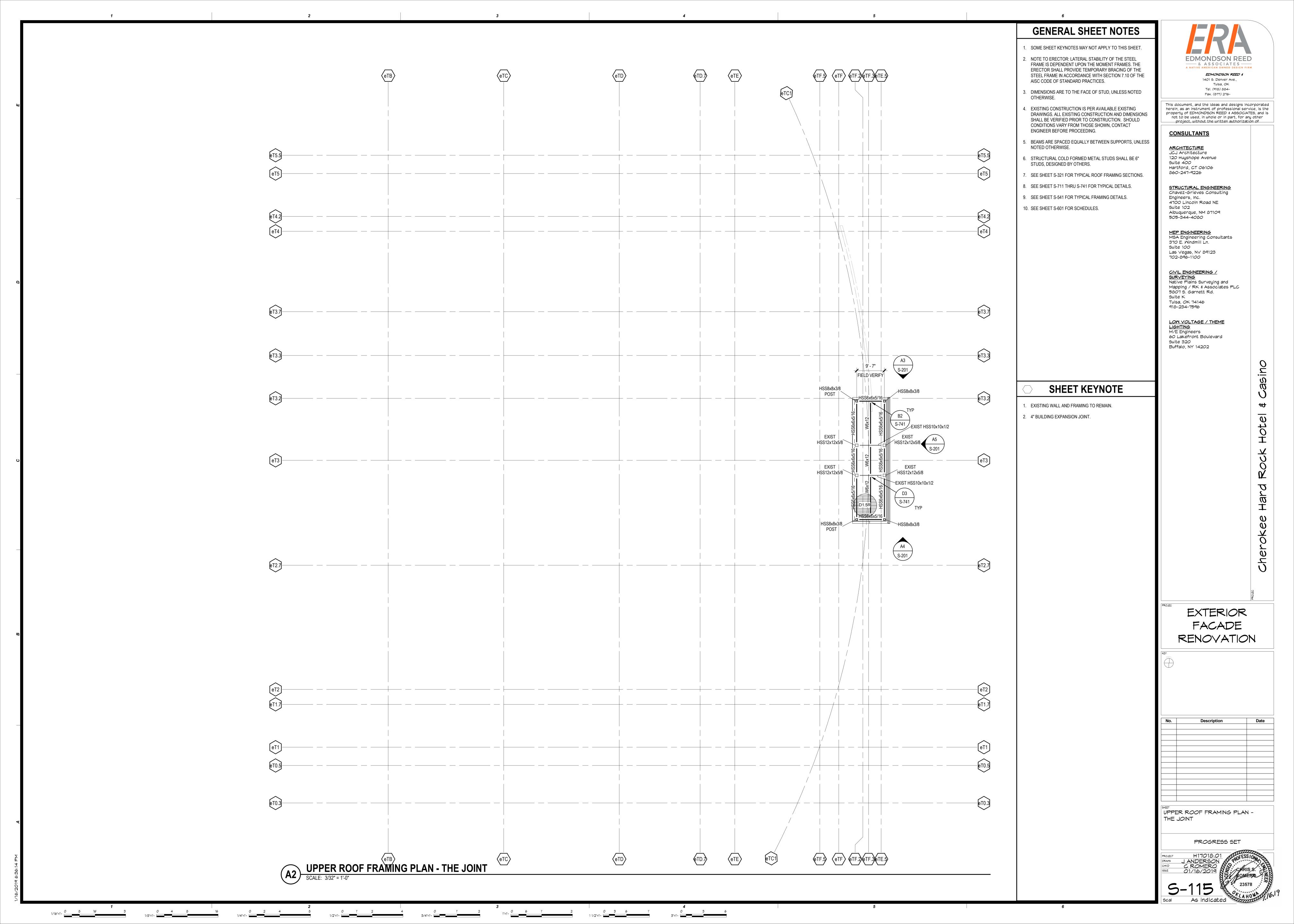


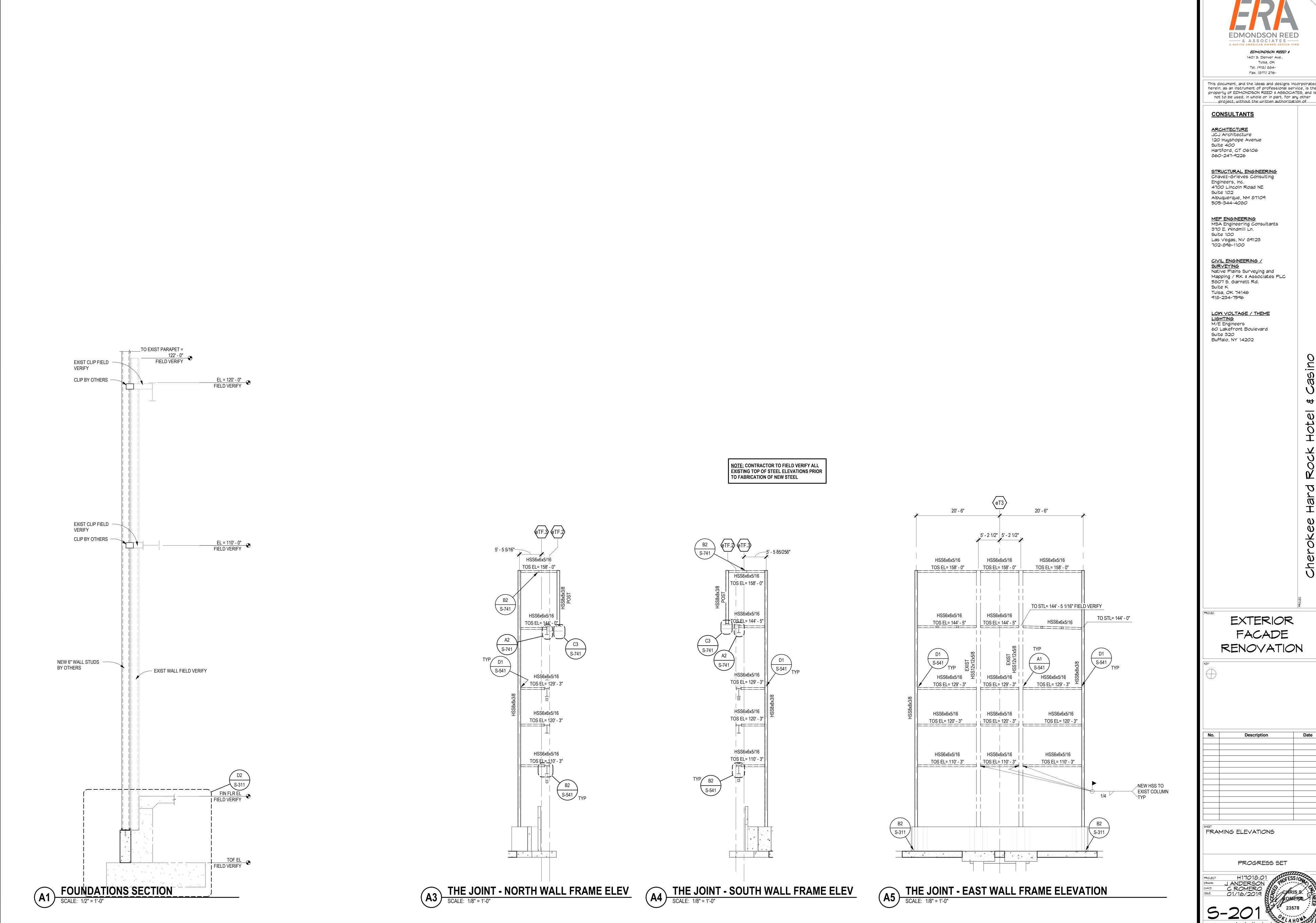












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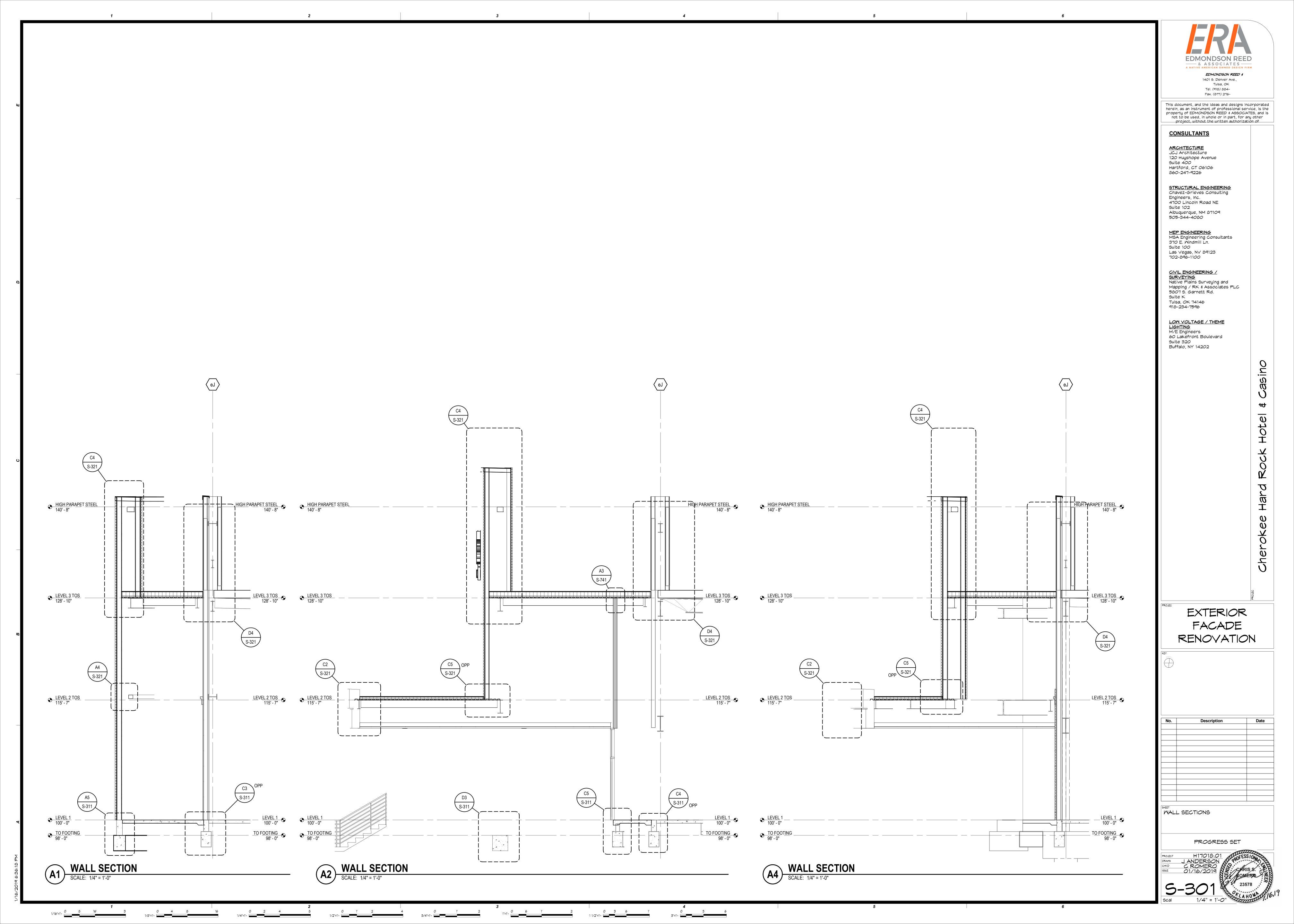
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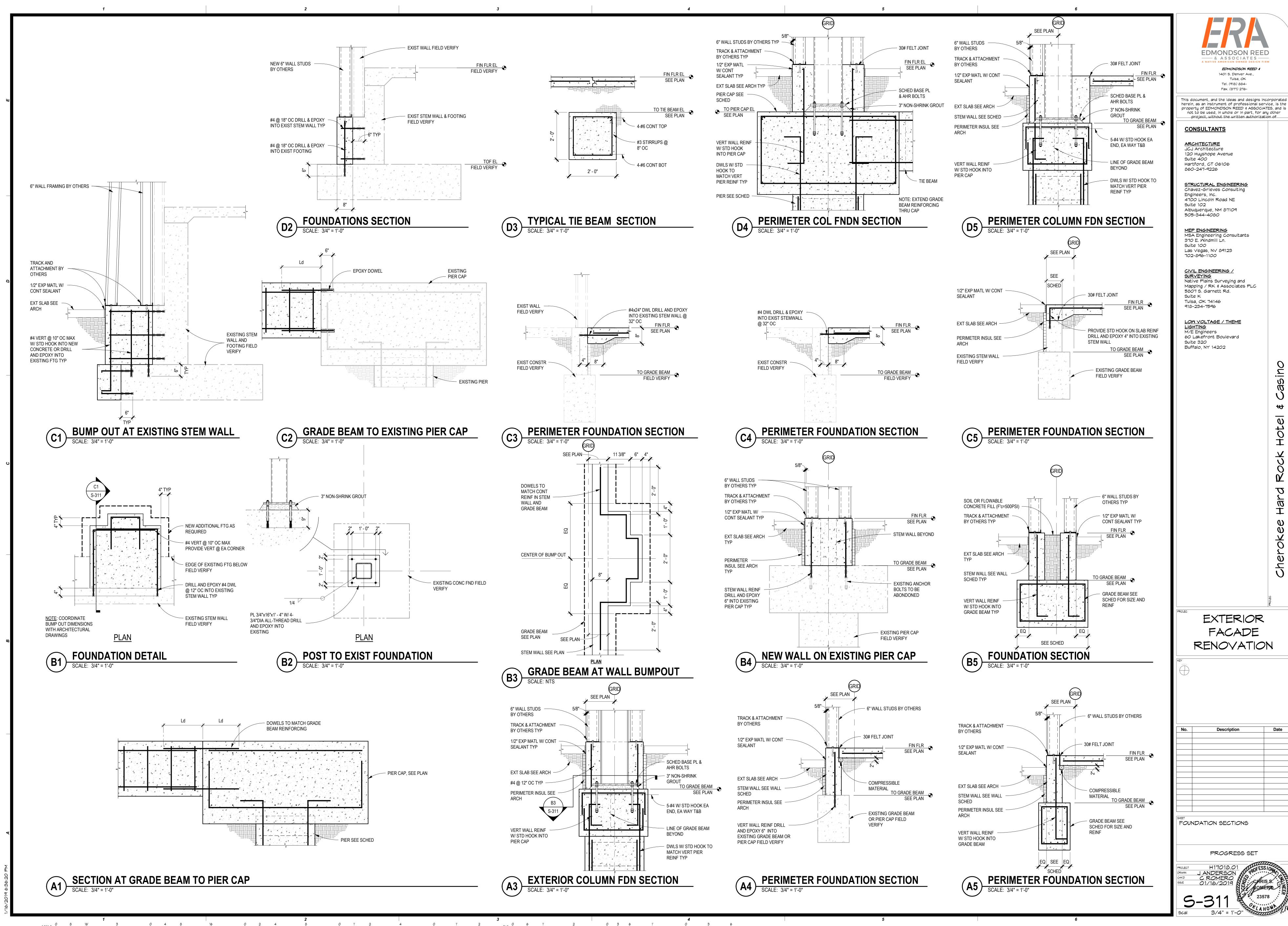
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EXTERIOR FACADE RENOVATION

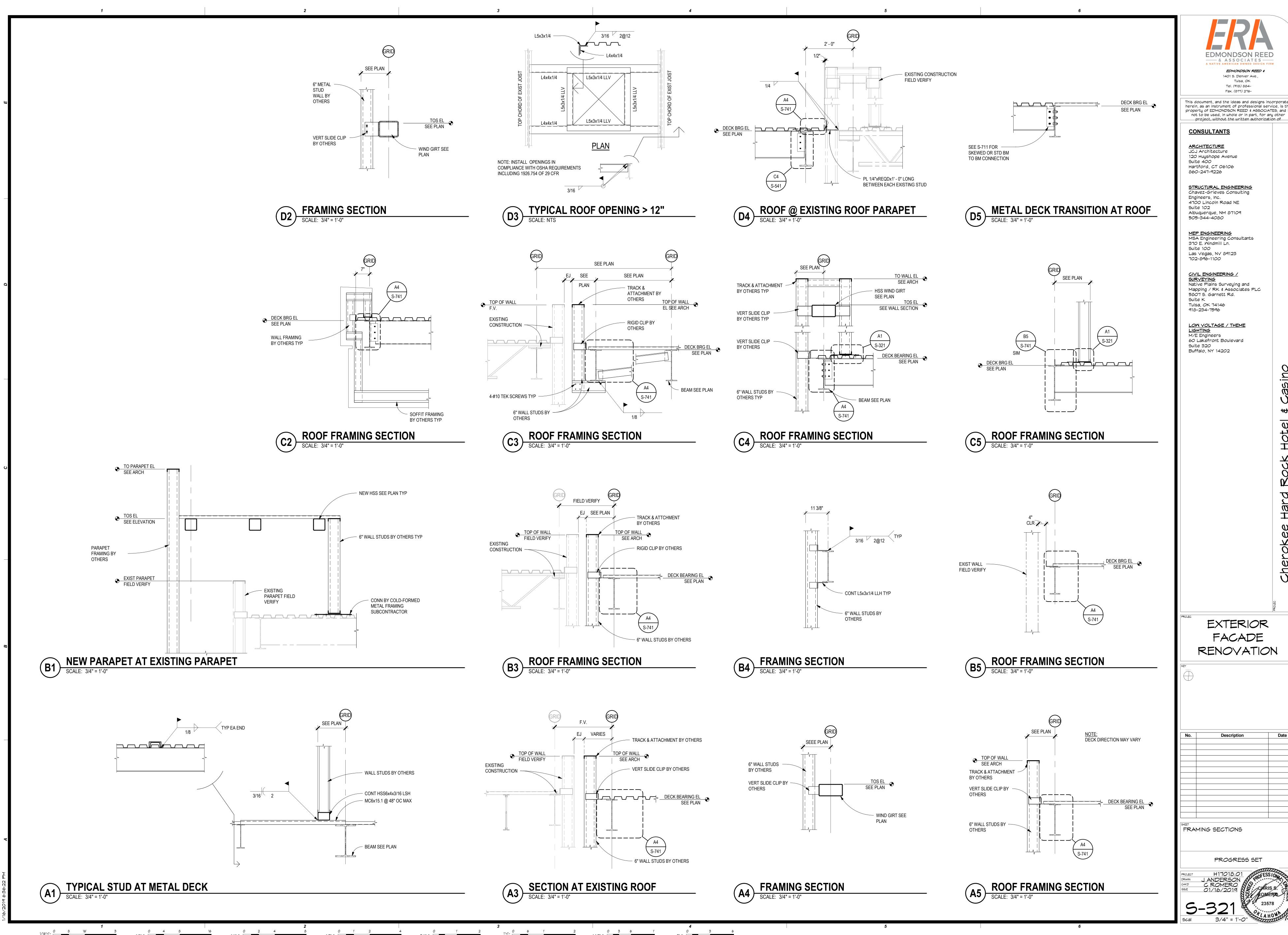
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FRAMING ELEVATIONS





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OUNDA	ATION SECTIONS	



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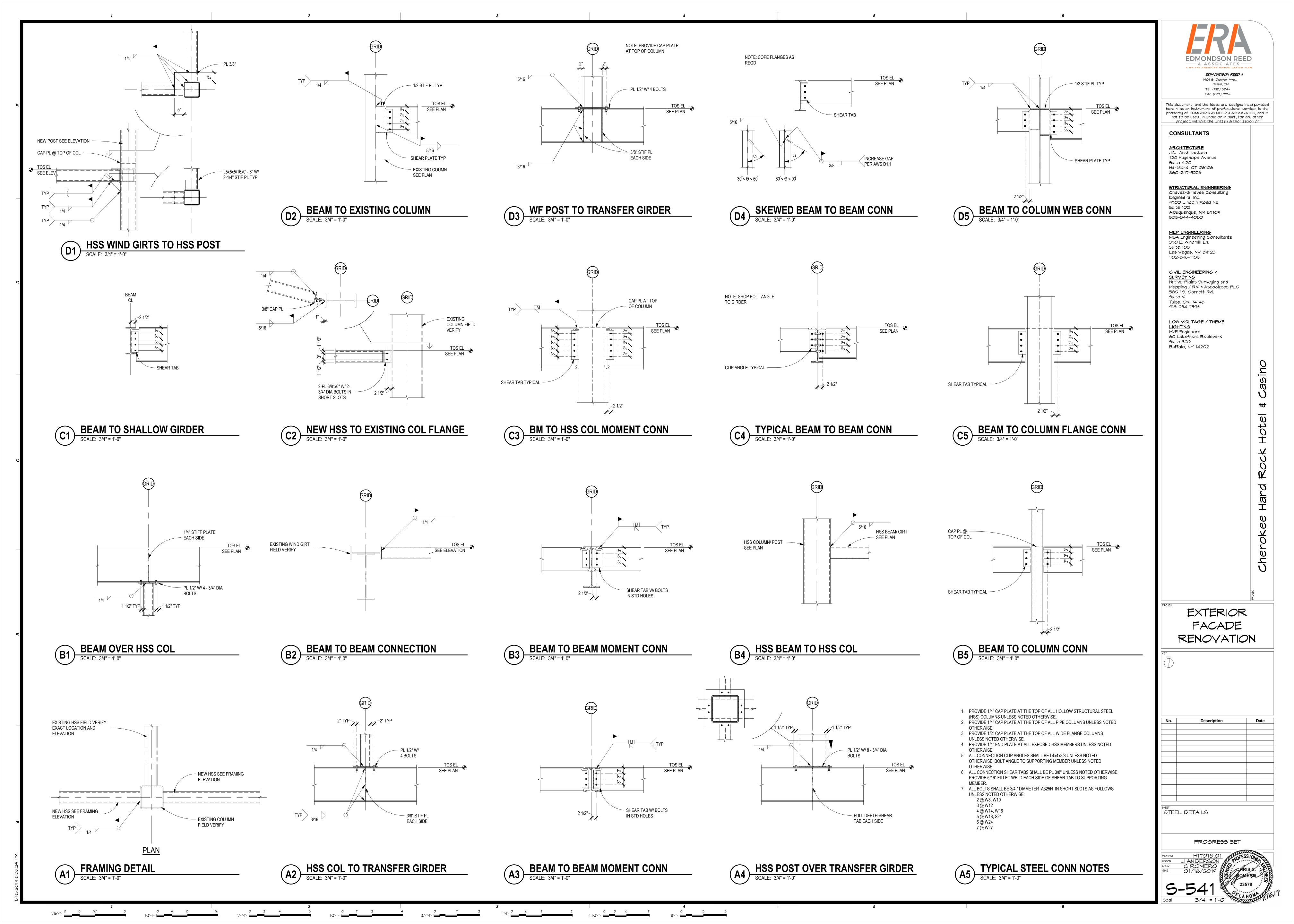
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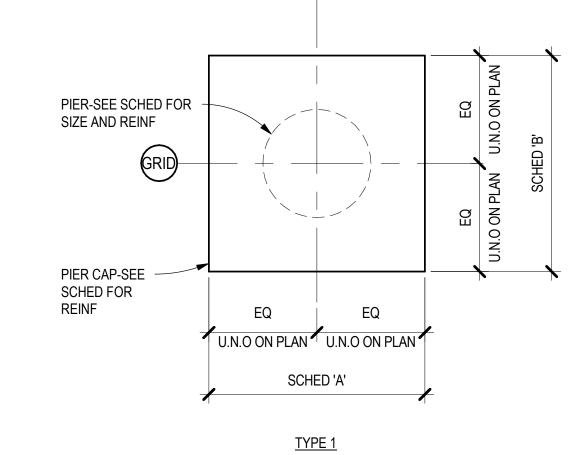
EXTERIOR FACADE RENOVATION

Description FRAMING SECTIONS



					PIER CAP S	CHEDULE						
ARK	PIER TYPE	PIER(S) Ø	PIER EMBED	VERTICAL REINF	HORIZ TIES	PIER CAP TYPE	SCHED 'A'	SCHED 'B'	DEPTH	CG PCAP REINF TOP	CG PCAP REINF BOT	REMARKS
21	TYPE A	1 - 30" DIA	3'-0"	12 - #7	#4 @ 12" OC	TYPE 1	5' - 0"	5' - 0"	2' - 6"	#8 @ 12" OC EA WAY	#8 @ 12" OC EA WAY	
2	TYPE A	1 - 48" DIA	3'-0"	24 - #8	#4 @ 12" OC	TYPE 1	4' - 6"	7' - 6"	2' - 6"	#8 @ 12" OC EA WAY	#8 @ 12" OC EA WAY	
⊃3	TYPE A	1 - 48" DIA	5'-0"	24 - #8	#4 @ 12" OC	TYPE 1	5' - 0"	6' - 0"	2' - 6"	#8 @ 12" OC EA WAY	#8 @ 12" OC EA WAY	
,												

GRID



TYPICAL PIER CAP TYPE DETAIL

SCALE: NTS

PROVIDE 1'-6" LAP TYP

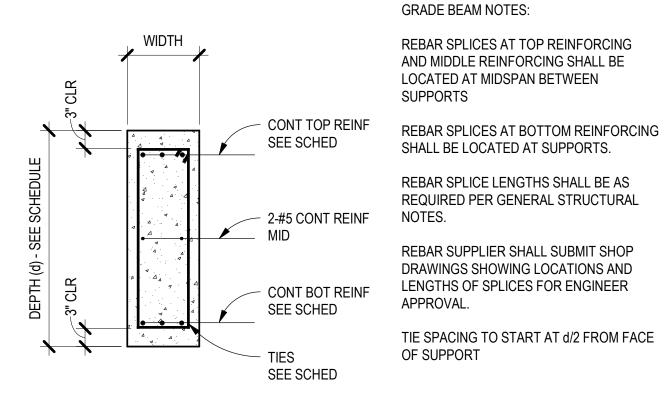
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# PIER TYPE DETAILS AND SCHEDULE SCALE: NTS

SEE SCHED

VERT REINF

SEE SCHED



GRADE BEAM DETAIL

SCALE: 3/4" = 1'-0"

BROWN OR GREY

GEO-TECHNICAL

**ENGINEER** 

AS DETERMINED BY 문

WEATHERED SHALE OR GREY FILLISE SHALE

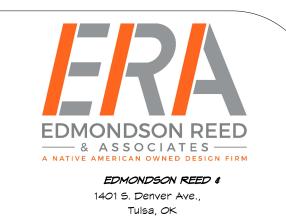
									DEC	K SCHEDU	JLE				
					SLAB			MET	AL DECK	(	DE	ECK ATTACHMENTS		TOTAL SLAB /	
	COMPOSITE					REINF						ATTACH PARALLEL TO		DECK	
MARK	SLAB	THICK	MATL	STRENGTH	REINF	GRADE	THICK	TYPE	GAGE	FINISH	ATTACH PERP TO RIBS	RIBS	ATTACH SIDELAPS	THICKNESS	COMMENTS
D1.5F							1 1/2"	В	18	GALV	7 - 5/8" DIA PUDDLE WELDS	5/8" DIA PUDDLE	#10 SCREWS @ 6"	1 1/2"	
											PER 36" WIDE SHEET	WELDS @ 6" OC	OC		

	SLAB-ON-GRADE SCHEDULE									
		SLAB		REINFOR	CING					
MADIC	THOMESO	MATI	CONC	DEINICODOINIO	ODADE	DEADING OTDATA	COMMENTS			
MARK	THICKNESS	MATL	STRENGTH	REINFORCING	GRADE	BEARING STRATA	COMMENTS			
S5	5"	CONC		#4 @ 18" OC EA WAY		4" GRANULAR BASE COURSE OVER COMPACTED STRUCTURAL FILL				

	WALL SCHEDULE									
MARK	VENEER	WALL	VERTICAL	HORIZONTAL	GRADE	COMMENTS				
W1		8" CONC	#4 @ 18" OC	#4 @ 12" OC	A615, GR 60					
W2		8" CONC	#4 @ 12" OC	#5 @ 12" OC	A615, GR 60					

				GRADE BEAM	SCHEDULE		
	SI	ZE		REINFORCI	NG		
MARK	WIDTH	DEPTH	CONT TOP	CONT BOTTOM	TRANSVERSE	GRADE	COMMENTS
GB1	1' - 4"	2' - 0"	4 - #6	4 - #6	#3 @ 10" OC		

			SCHEDUL	_				
REINFORCEMENT TYPE		<u> D SMALLE</u>			<u>ID LARGEF</u>		MINIMUM LENGTH (IN)	COMMENTS
	3000 PSI	4000 PSI	5000 PSI	3000 PSI	4000 PSI	5000 PSI	IVIIINIIVIOIVI LLINGTTI (IIN)	COMMINICITY
CONTINUOUS WALL FOOTINGS AND STEMWALLS	30	30	30	30	30	30	18	
RETAINING WALLS AND BASEMENT WALL VERTICAL REINFORCING	57	50	45	72	62	56	12	
RETAINING WALLS AND BASEMENT WALL HORIZONTAL REINFORCING	57	50	45	72	62	56	12	
CONCRETE COLUMNS NOT SUPPORTING LATERAL FORCES	30	30	30	30	30	30	12	
CONCRETE COLUMNS SUPPORTING LATERAL FORCES	57	50	45	72	62	56	12	
TOP FLEXURAL REINFORCEMENT, INCLUDING BEAMS, GRADE BEAMS, AND COMBINED COLUMN FOOTING AT BRACED FRAME AND MOMENT FRAMES	57	50	45	72	62	56	12	
BOTTOM FLEXURAL REINFORCEMENT, INCLUDING BEAMS, GRADE BEAMS, AND COMBINED COLUMN FOOTING AT BRACED FRAME AND MOMENT FRAMES	57	50	45	55	62	56	12	
SLABS-ON-GRADE	30	30	30	30	30	30	12	
MINIMUM EMBEDMENT OF STANDARD HOOKS INTO CONCRETE BASE	16	14	12	16	14	14	6	INCREASE LENGTH FOR # 11 BARS AND LARGER BY A FACTOR OF 1.4
ALL REBAR LAPS IN CMU		72			72		12	



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# MEP ENGINEERING MSA Engineering Consultants 370 E. Windmill Ln. Suite 100 Las Vegas, NV 89123

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918-234-7596

# CIVIL ENGINEERING / SURVEYING Native Plains Surveying and Mapping / RK & Associates PLC 5807 S. Garnett Rd. Suite K Tulsa, OK 74146

# LOW YOLTAGE / THEME LIGHTING M/E Engineers 60 Lakefront Boulevard Suite 320 Buffalo, NY 14202

Cherokee Hard Rock Hotel \$

sino

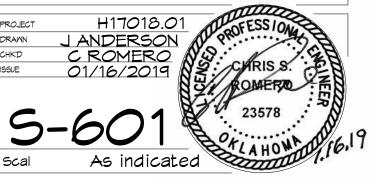
### EXTERIOR FACADE RENOVATION

NORTH NORTH

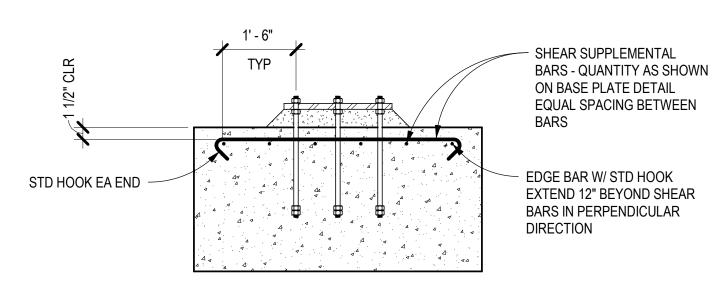
о.	Description	Date
•		•

CHEDULES

PROGRESS SET

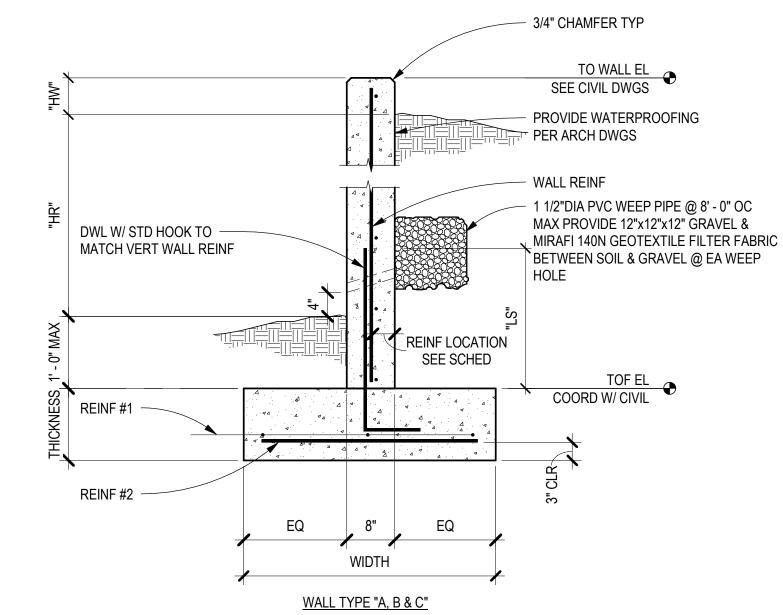


6/2019 6:36:25 PM



NOTE: ONLY SUPPLEMENTAL BARS ARE SHOWN FOR CLARITY

# SUPPLEMENTAL SHEAR BAR DETAIL SCALE: 3/4" = 1'-0"



CONCRETE SITE RETAINING WALL SCHEDULE											
WALL	WALL HEIGHT	HEIGHT RETAINED	FOOTING SIZE		FOOTING REINFORCING		WALL				
TYPE	ABOVE GRADE "HW"	"HR"	WIDTH	THICKNESS	REINF #1	REINF #2	REINFORCING		REINF	SPLICE LENGTH	
	FT-IN	FT-IN	FT-IN	FT-IN	NUMBER - SIZE	SIZE - SPACING	VERT SIZE - SPACING	HORIZ SIZE - SPACING	LOCATION	"LS"	
A	0' - 0" - 0' - 6"	0' - 0" - 4' - 0"	2'-6"	1'-0"	3 - #5 CONT	#4 @ 48" OC	#4 @ 18" OC	#4 @ 12" OC	4"	24"	
В	0' - 0" - 3' - 6"	0' - 0" - 5' - 0"	3'-6"	1'-0"	3 - #5 CONT	#4 @ 48" OC	#4 @ 14" OC	#4 @ 12" OC	4"	24"	
С	0' - 0" - 0 - 6"	4' - 1" - 7' - 0"	5'-0"	1'-0"	5 - #5 CONT T&B	#5 @ 24" OC T&B	#5 @ 10" OC	#4 @ 12" OC	4"	36"	

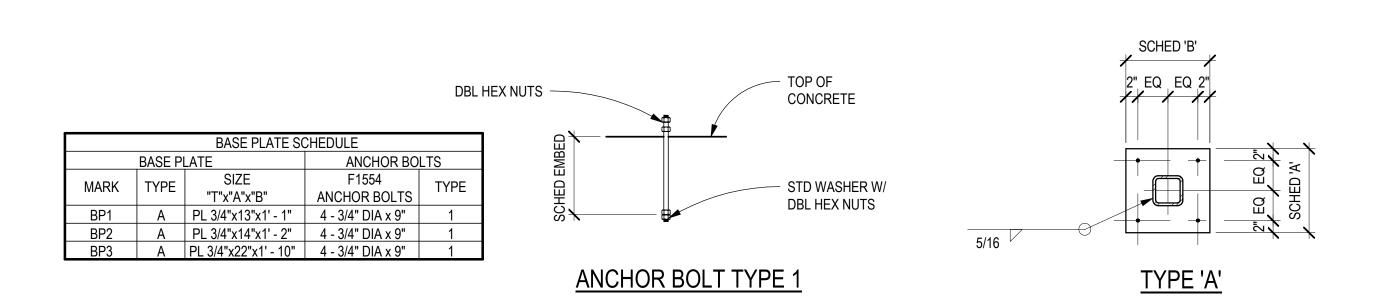
NOTE:

COORDINATE EXACT LOCATION AND EXTENT OF WALL WITH ARCHITECTURAL AND CIVIL DWGS.

PROVIDE CONCRETE WALL VERTICAL CONTROL JOINTS AT (2) TIMES THE WALL HEIGHT AND AT ALL STEPS IN TOP OF WALL. SEE DETAIL C2/S7.11 FOR CONTROL JOINT INFORMATION.

TYPICAL CONCRETE SITE RETAINING WALL SCHEDULE AND DETAIL

SCALE: NTS



BASE PLATE TYPES - SCHEDULE AND DETAILS

SCALE: NTS

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Tulsa, OK

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LIGHTING
M/E Engineers
60 Lakefront Boulevard
Suite 320

Buffalo, NY 14202

se Hard Rock Hotel & Casino

EXTERIOR FACADE RENOVATION

No.	Description	Dat	
	•		
EET			

PROGRESS SET

PROJECT H17018.01

DRAVN J ANDERSON

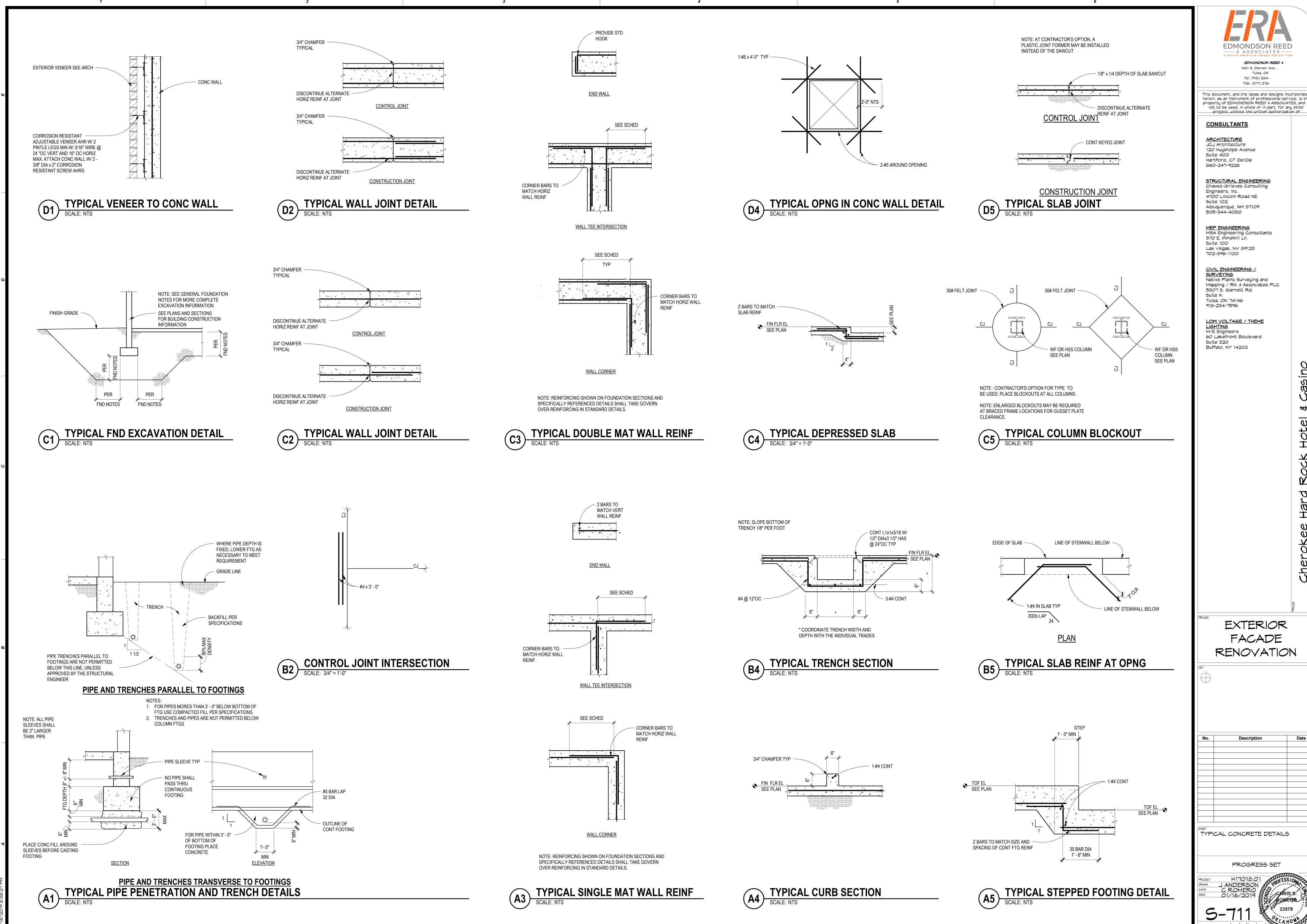
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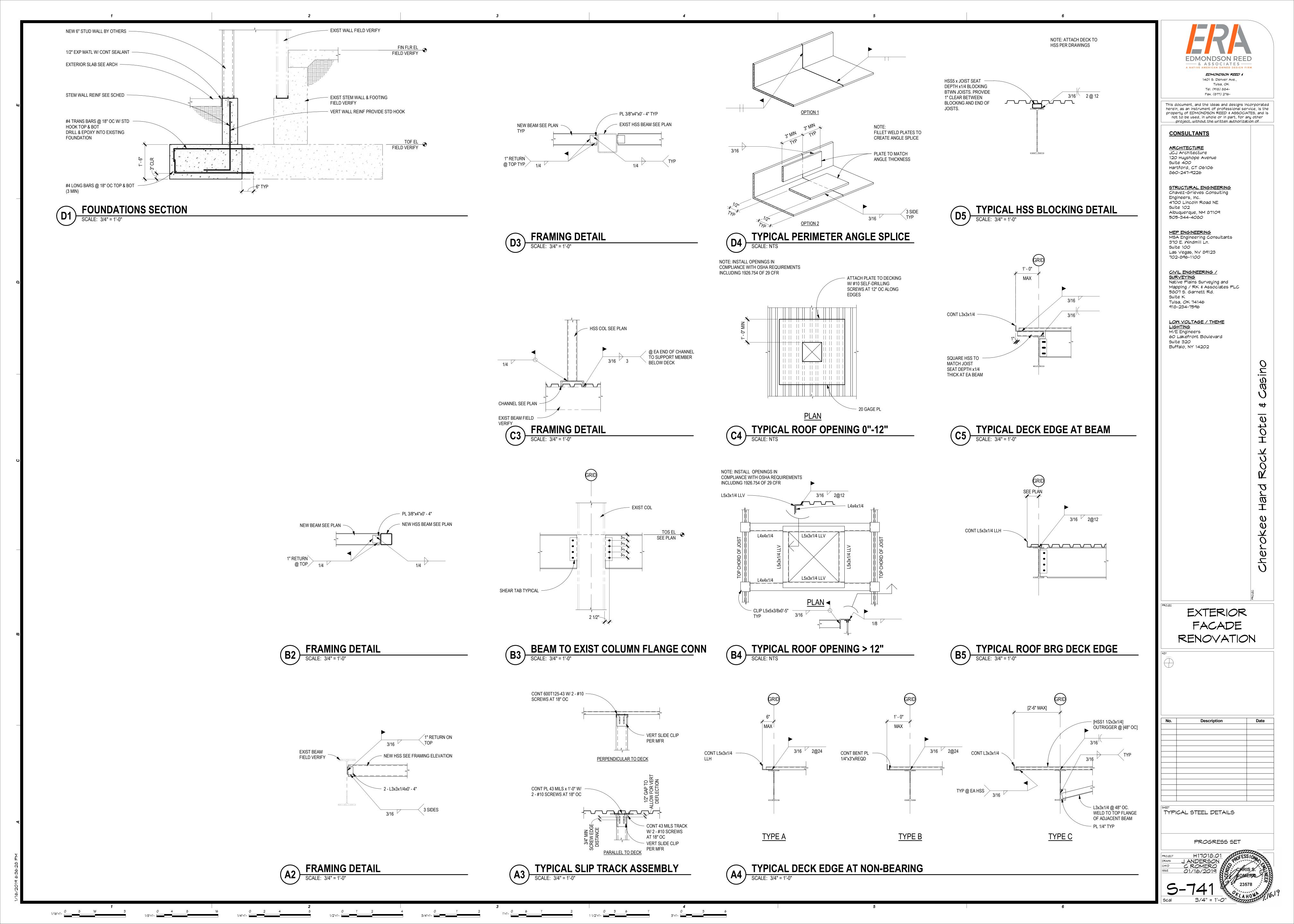
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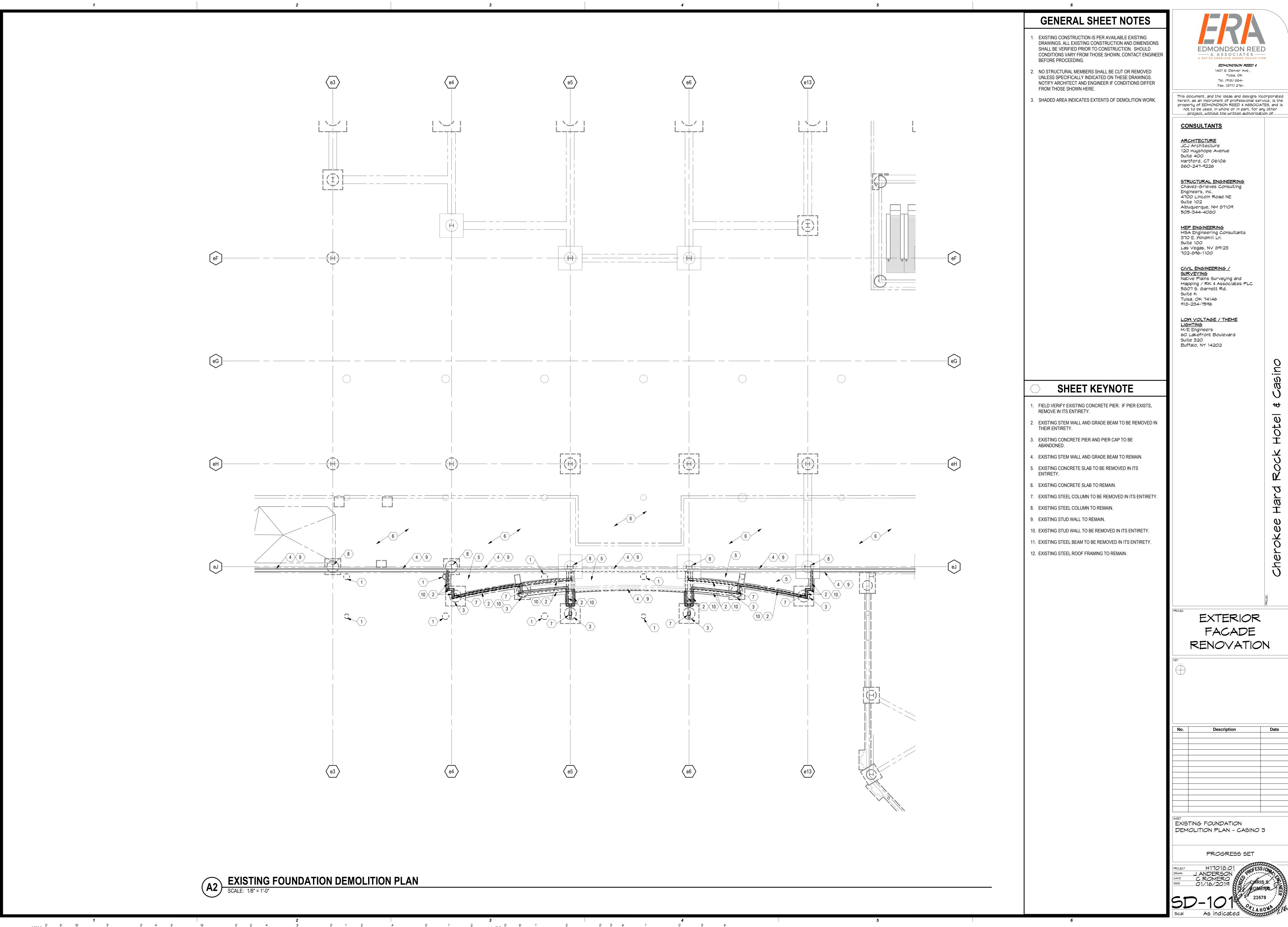
> LOM VOLTAGE / THEME LIGHTING M/E Engineers

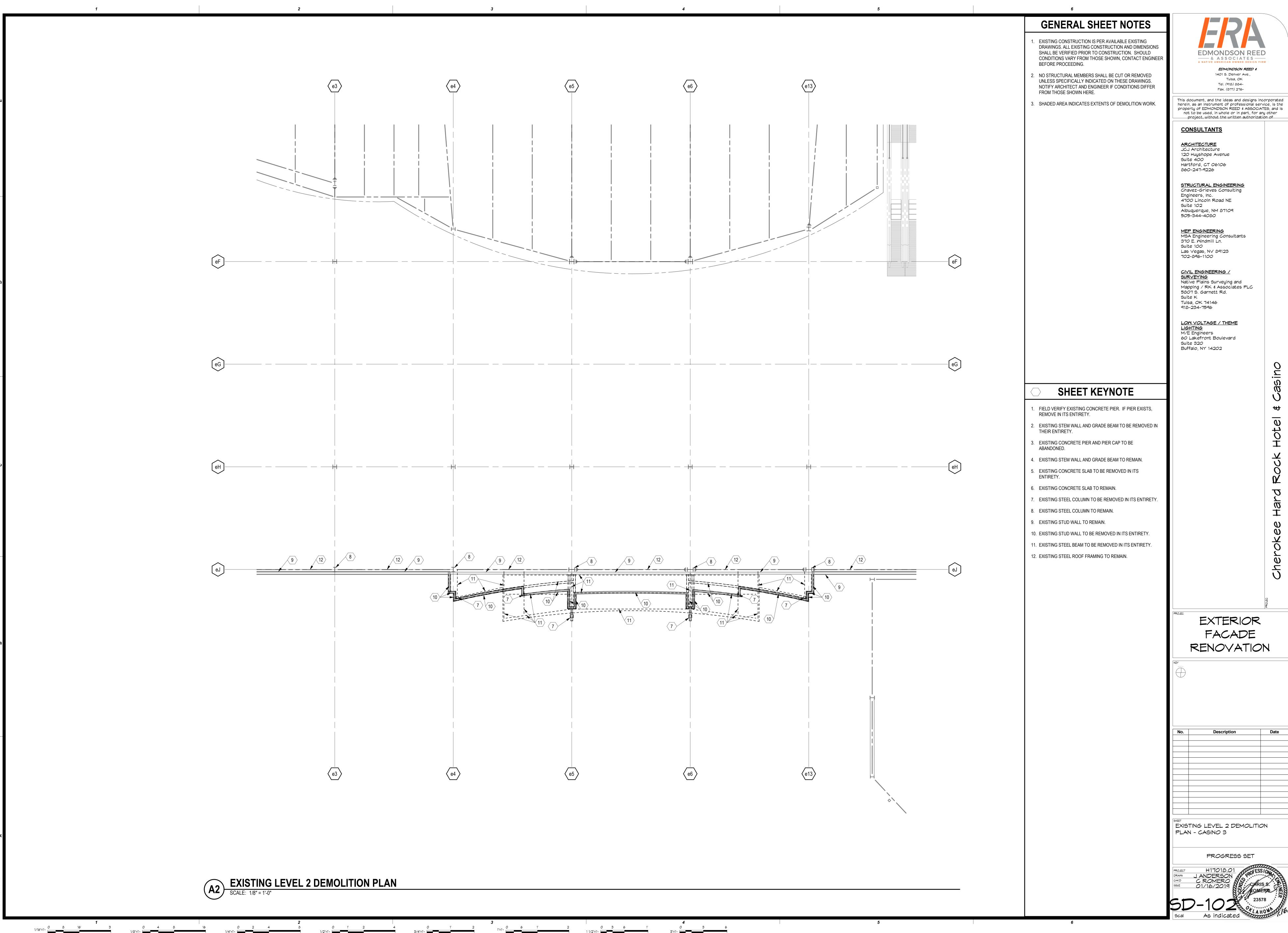
60 Lakefront Boulevard Suite 320 Buffalo, NY 14202

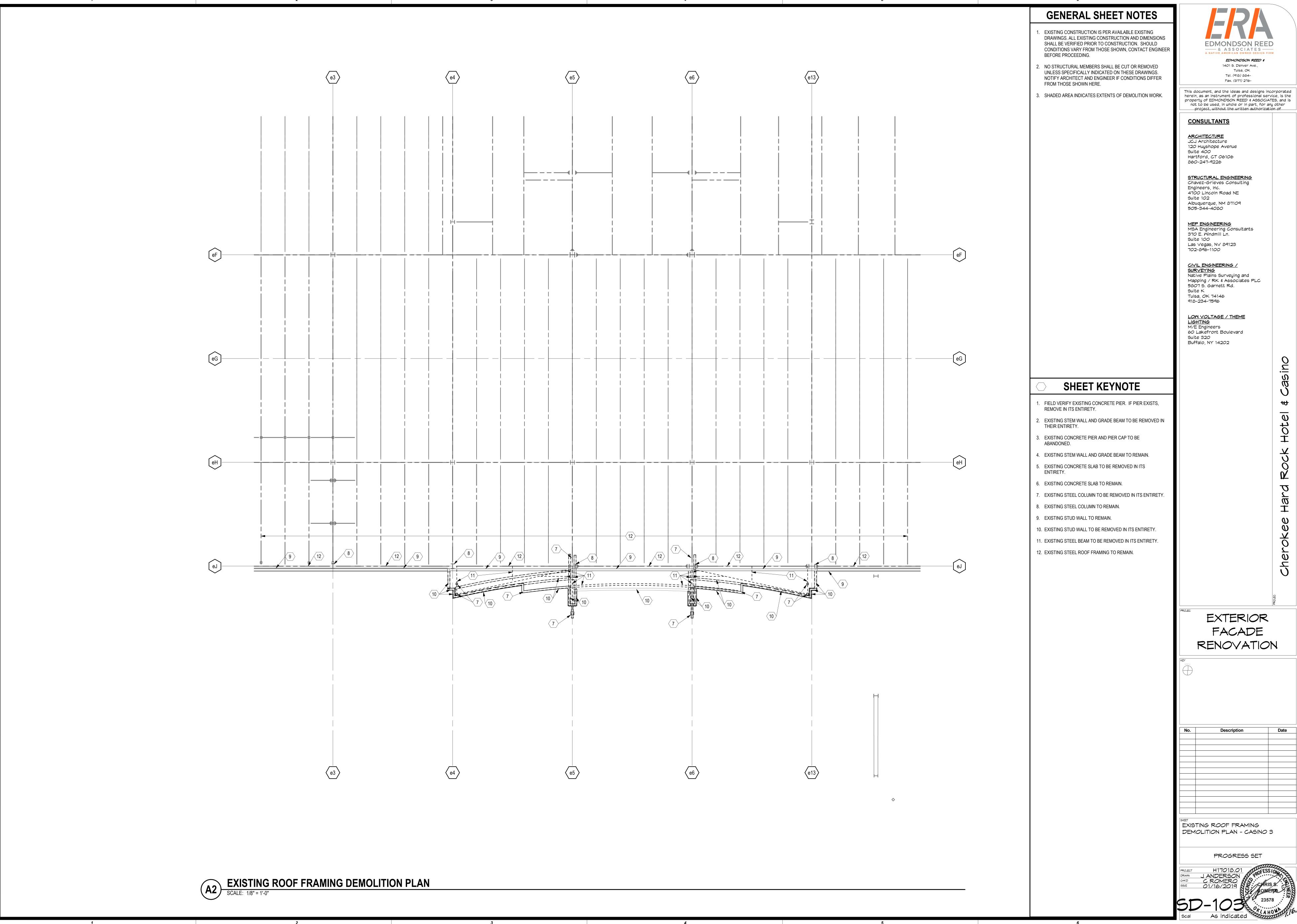
> EXTERIOR FACADE RENOVATION

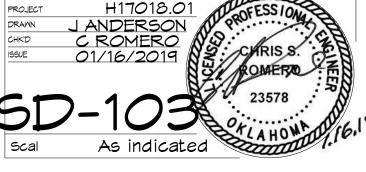
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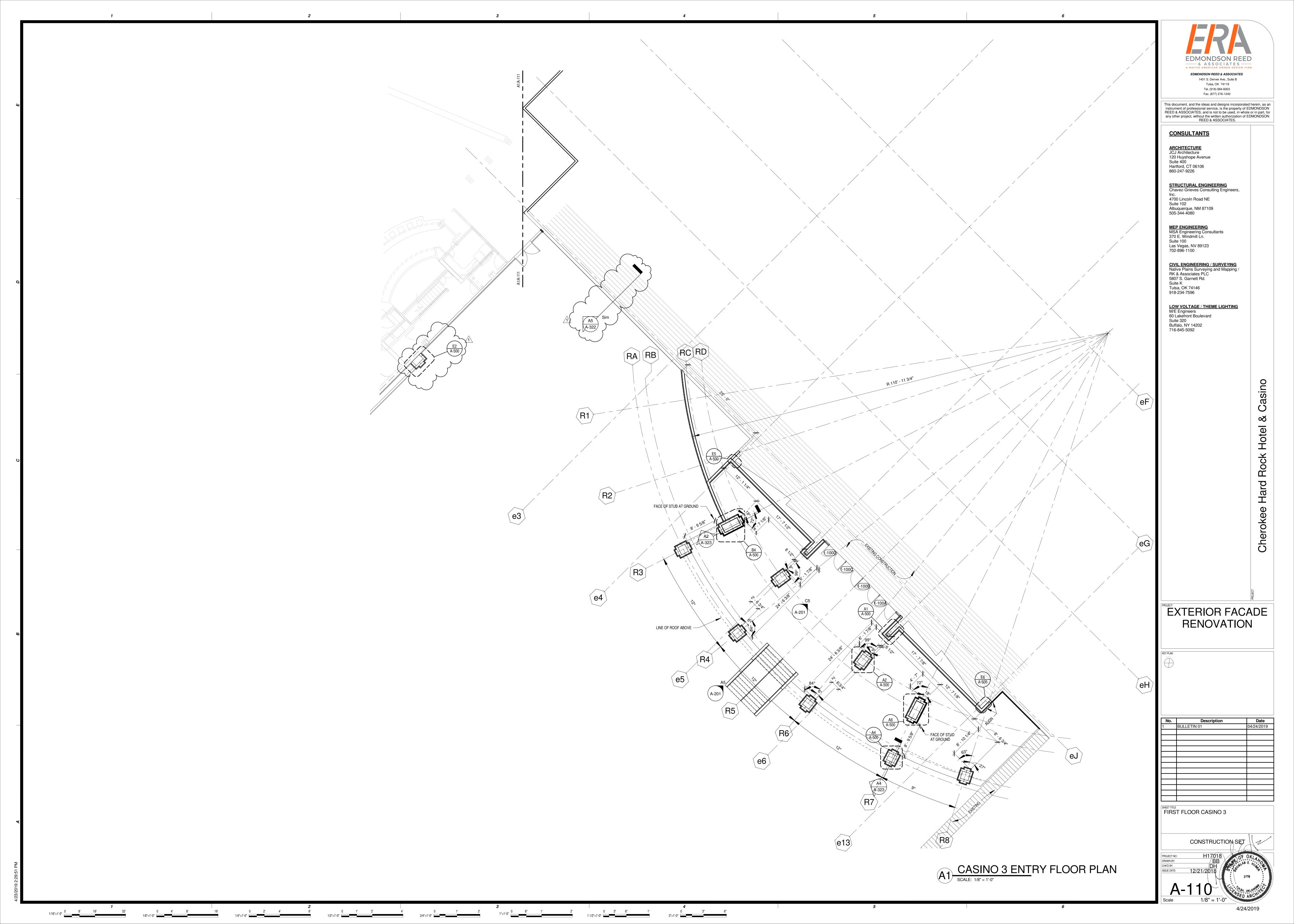


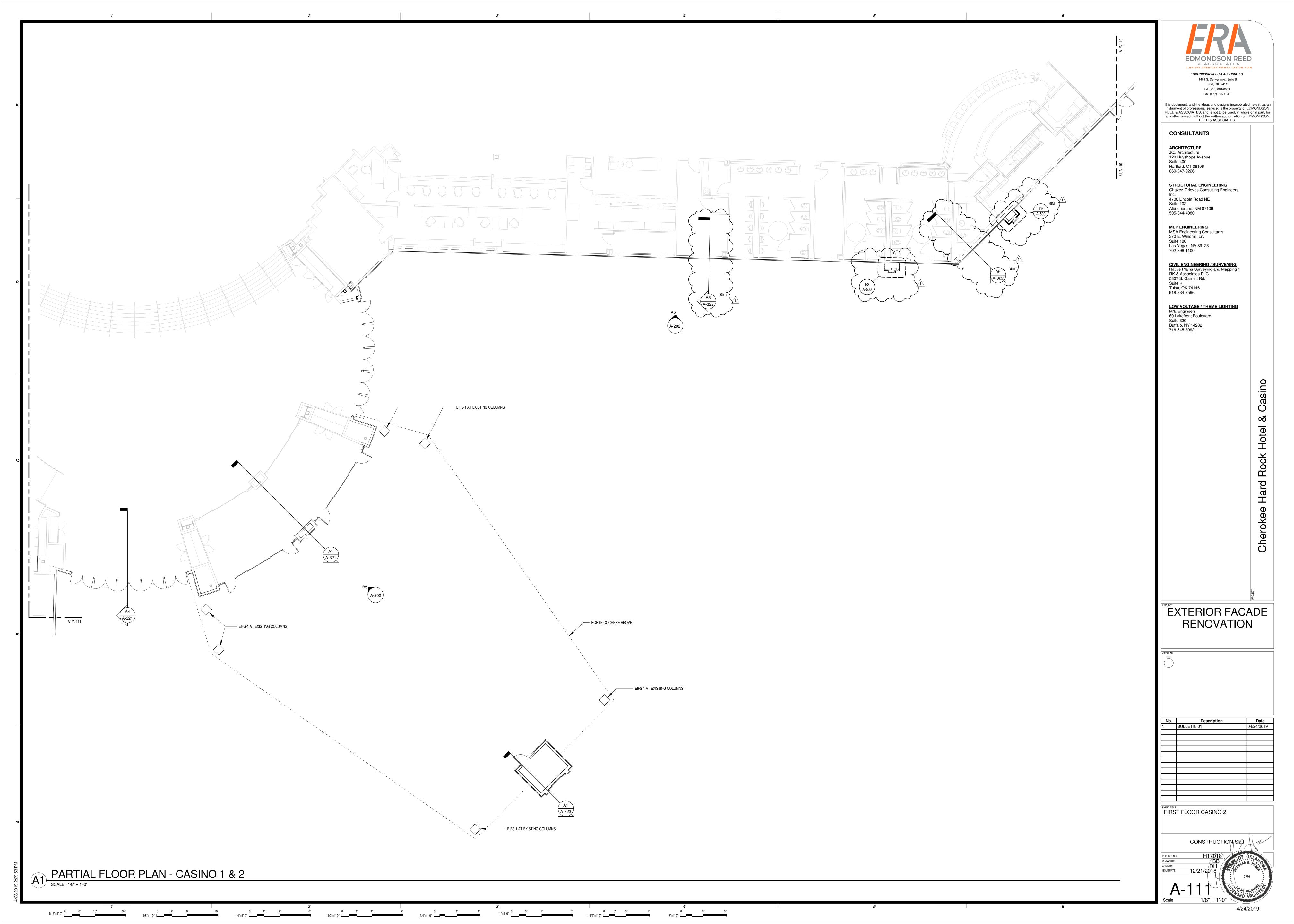


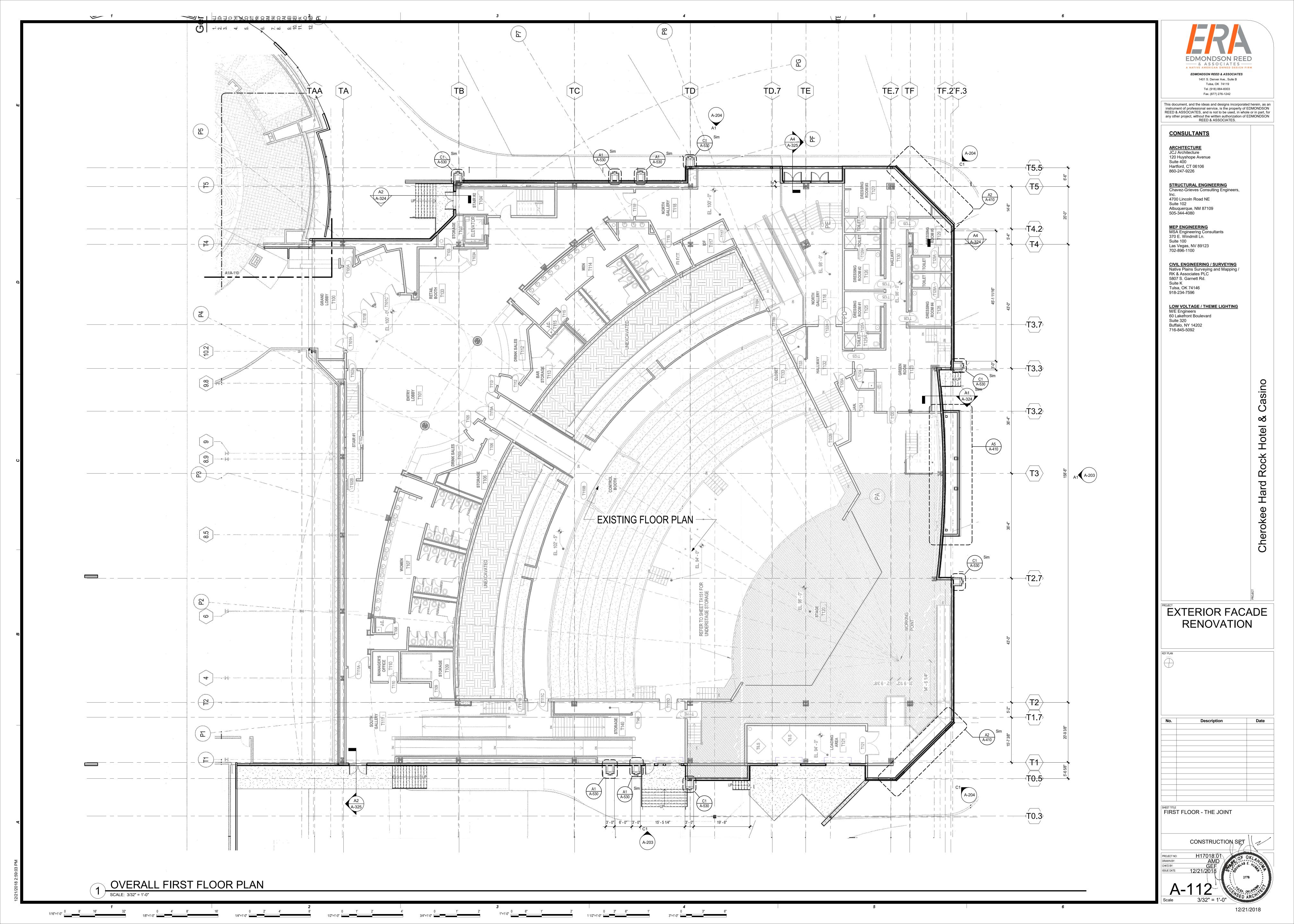


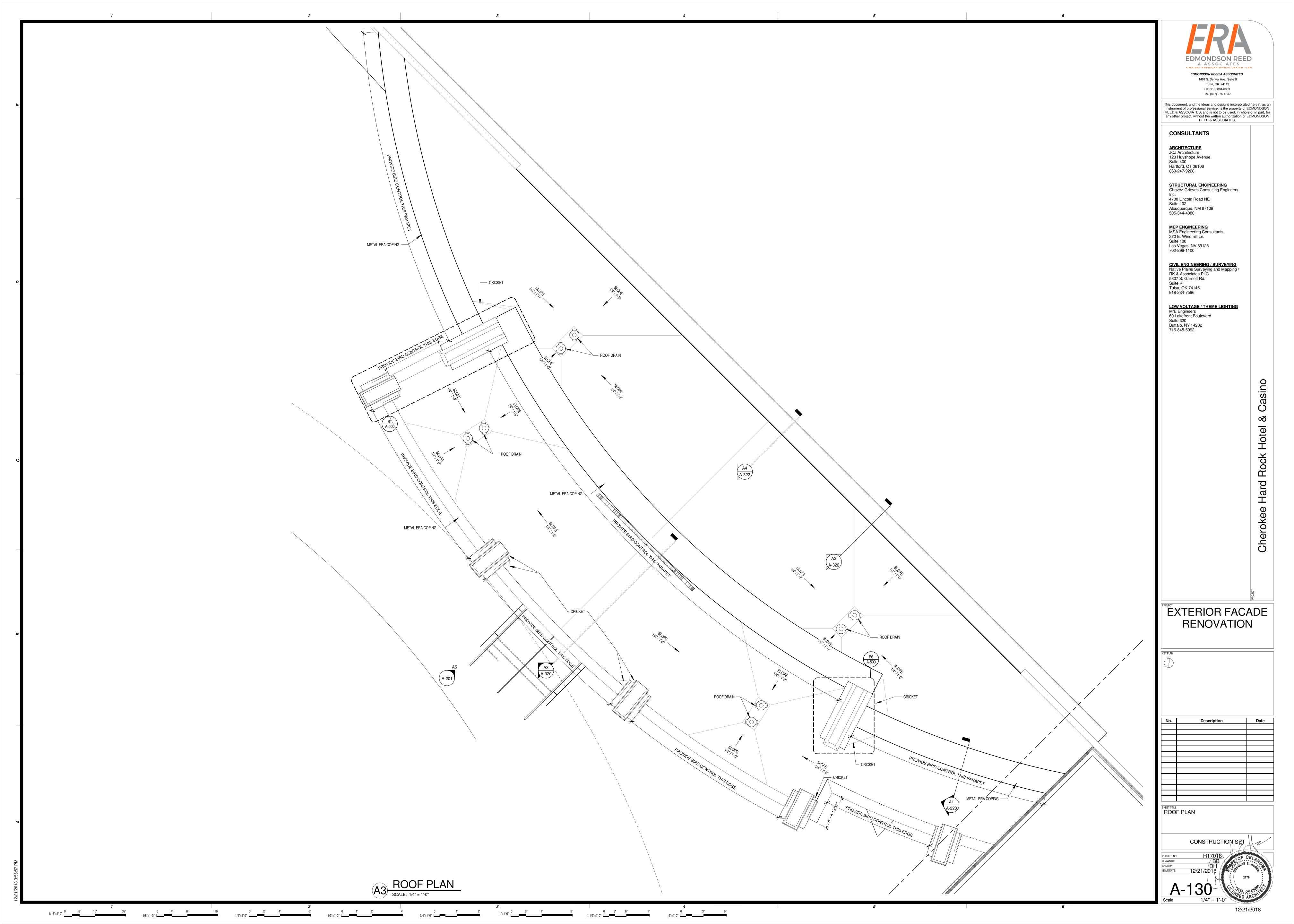


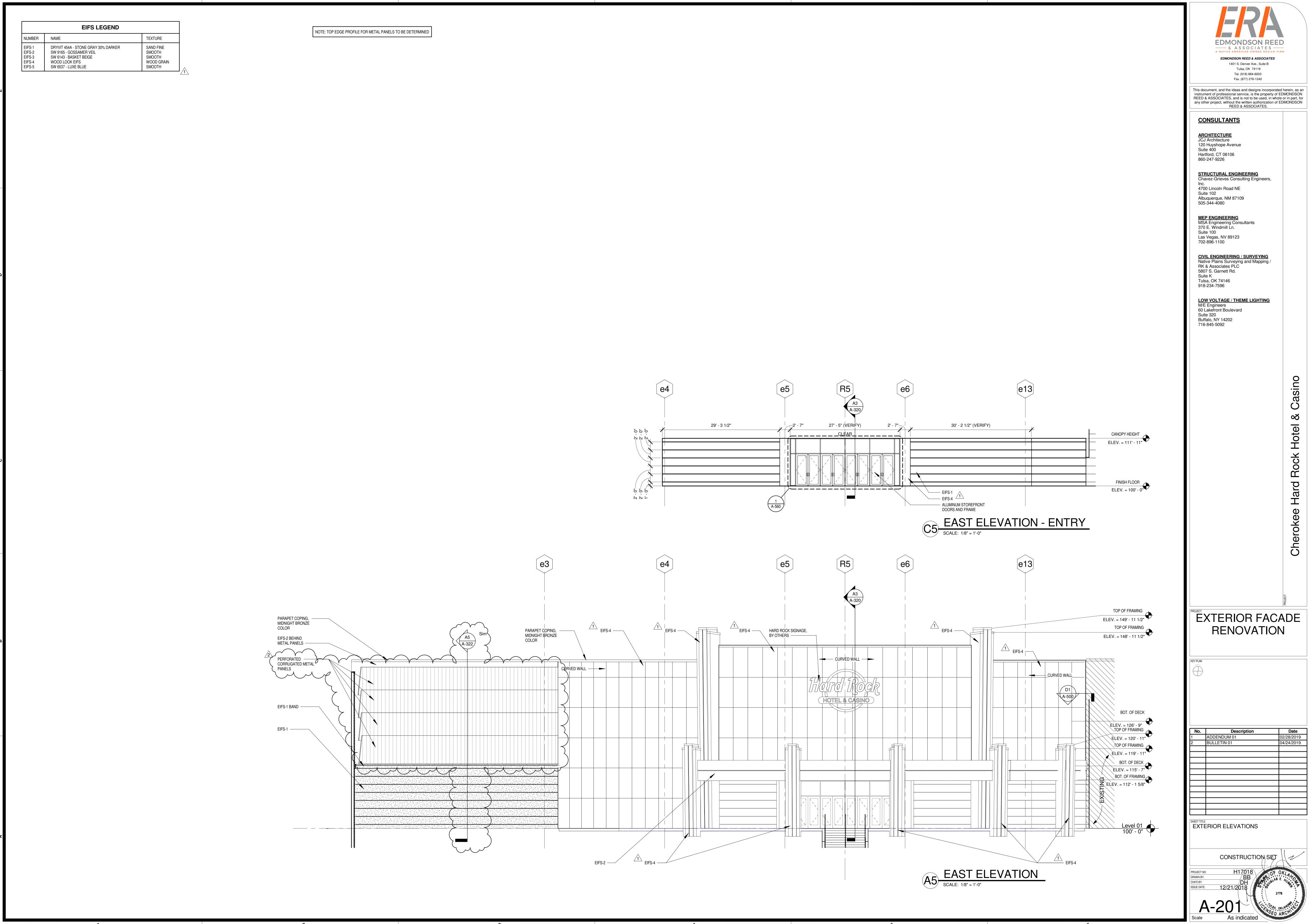


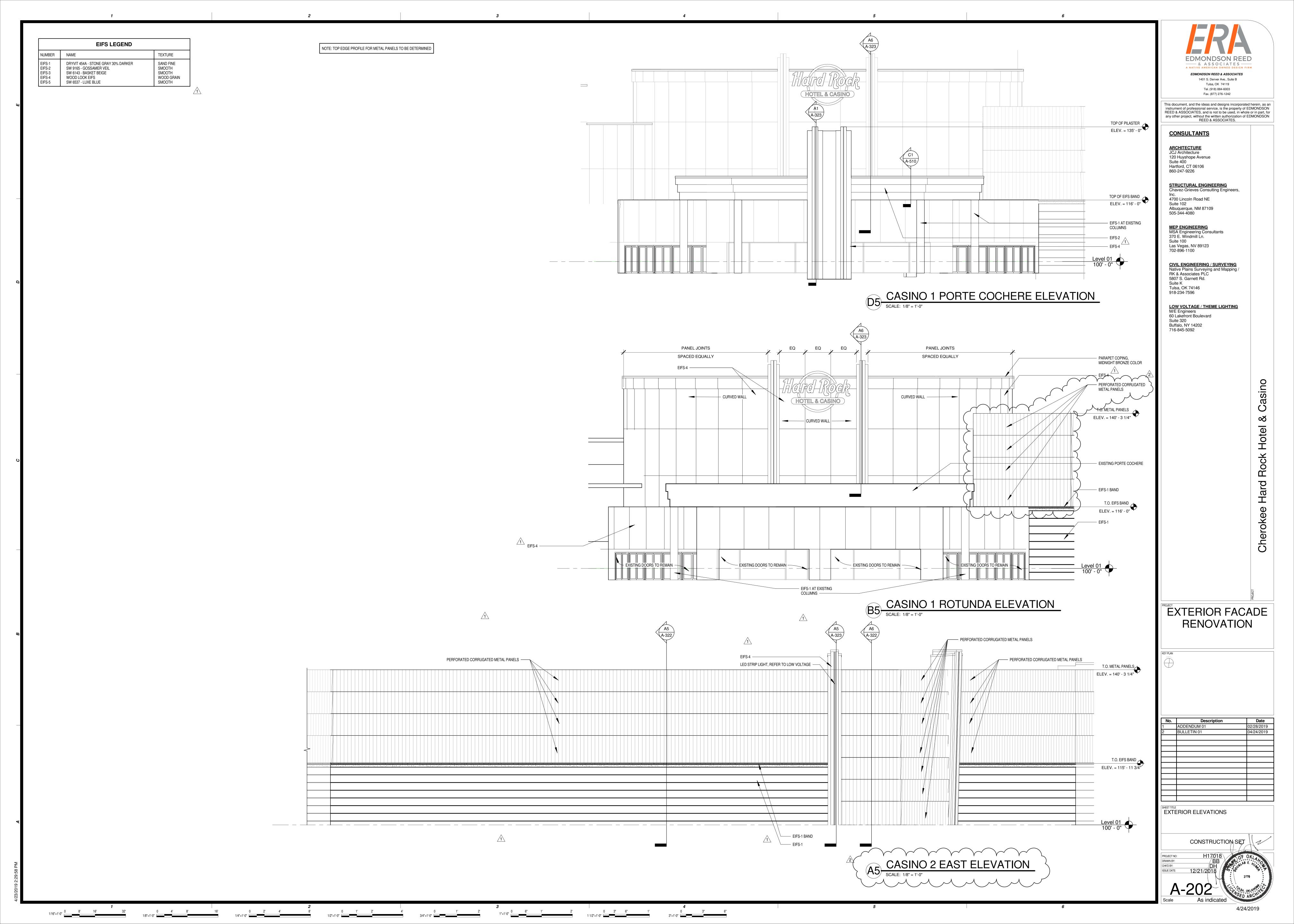




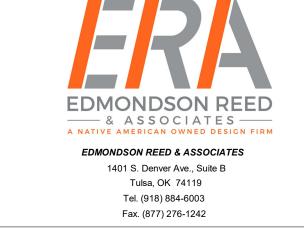








		EIFS LEGEND	
	NUMBER	NAME	TEXTURE
_	EIFS-1	DRYVIT 454A - STONE GRAY 30% DARKER	SAND FINE
	EIFS-2	SW 9165 - GOSSAMER VEIL	SMOOTH
	ÆIFS-3	SW 6143 - BASKET-BEIGE	SMOOTH
1	EIFS-4	SW 7675 - SEALSKIN )	SAND FINE
	EIFS-5	SW 6537 - LUXE BLUE	SMOOTH



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M/E Engineers
60 Lakefront Boulevard
Suite 320
Buffalo, NY 14202

Cherokee Hard F

# EXTERIOR FACADE RENOVATION

L**AN** 

No. Description Date

BULLETIN 1 04/24/2019

SHEET TITLE EXTERIOR ELEVATIONS

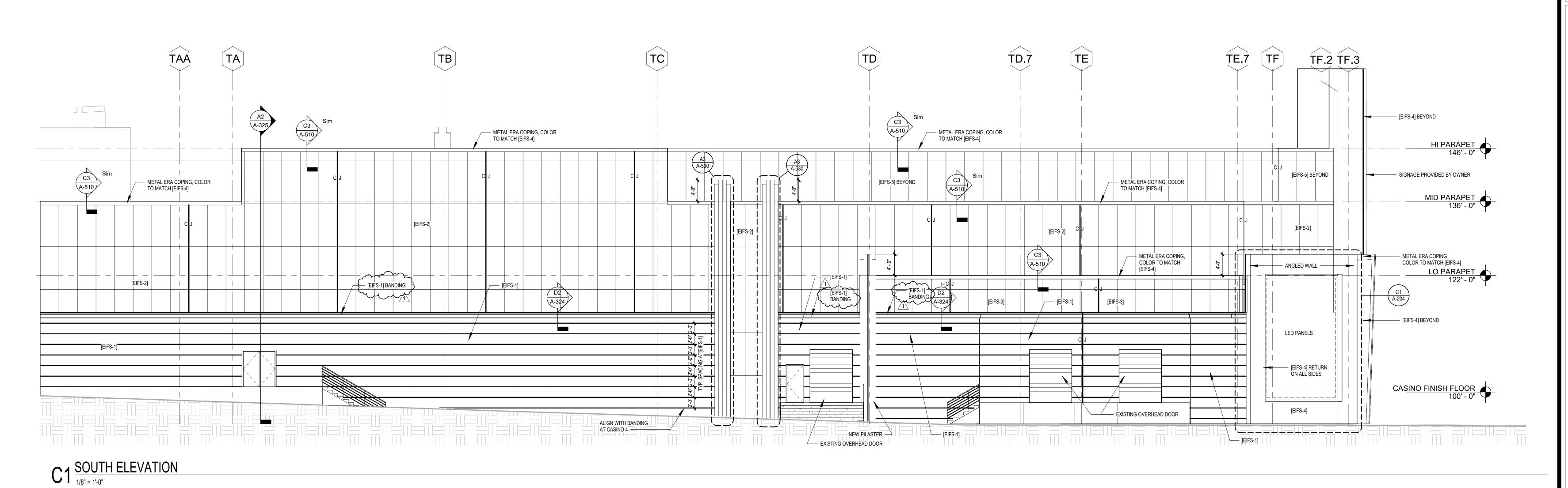
CONSTRUCTION SET

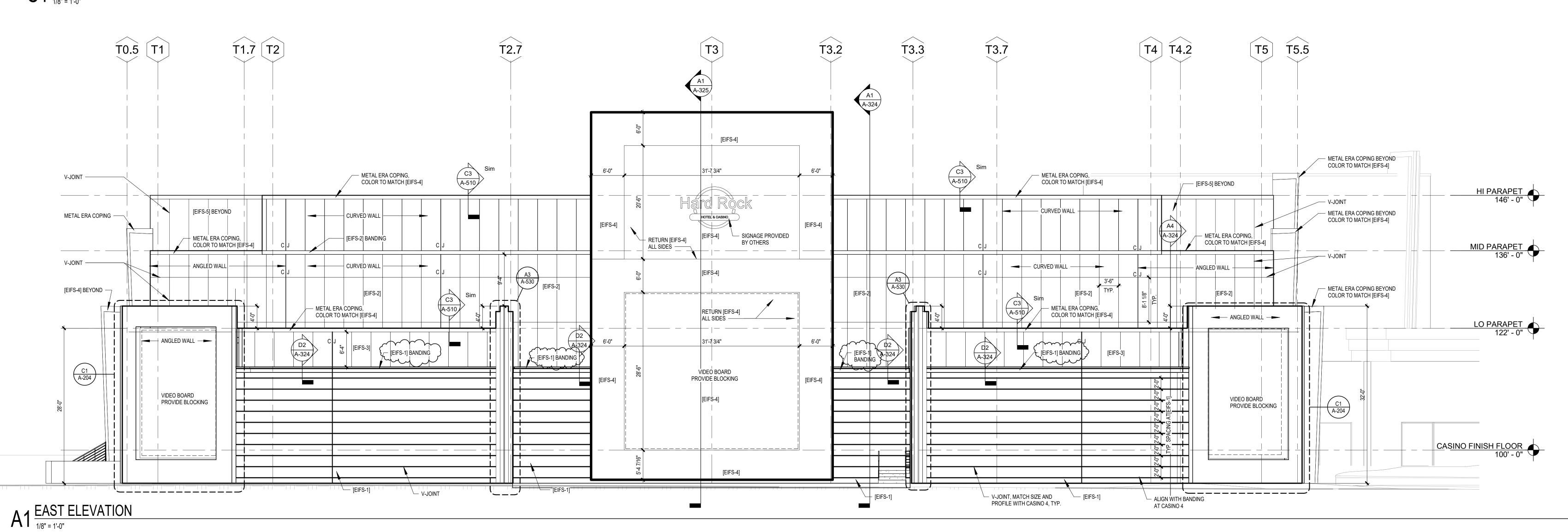
ROJECT NO: H17018.01

AMD

AMD

PROJECT NO: H17018.01
DRAWN BY: AMD
CHK'D BY: GEF
ISSUE DATE: 12/21/2018





		EIFS LEGEND	
	NUMBER	NAME	TEXTURE
<b>,</b> ~~	EIFS-1 EIFS-2	DRYVIT 454A - STONE GRAY 30% DARKER SW 9165 - GOSSAMER VEIL SW 6143 - BASKET BEIGE	SAND FINE SMOOTH SMOOTH
<u> </u>	EIFS-4 EIFS-5	SW 6537 - LUXE BLUE	SAND FINE SMOOTH

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Suite 320

Buffalo, NY 14202 716-845-5092

Cherokee Hard Rock Hotel & Casi

0

# EXTERIOR FACADE RENOVATION

KEY PLAN
NORTH

No. Description Date

BULLETIN 1 04/24/2019

EXTERIOR ELEVATIONS

CONSTRUCTION SET

DRAWN BY:

CHICAGO BY:

GEF

ISSUE DATE:

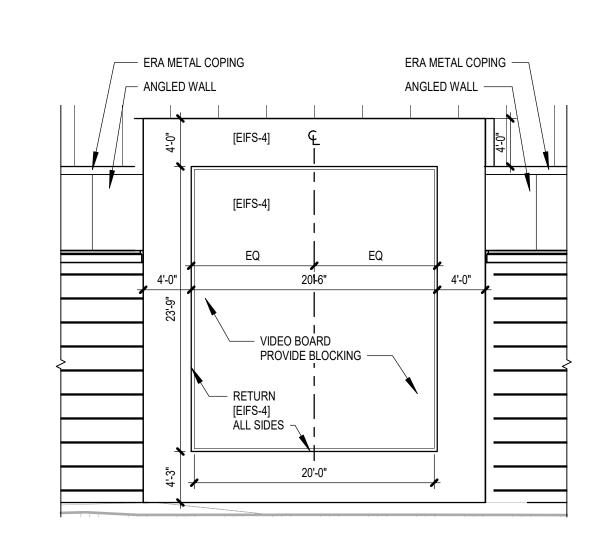
12/21/2018

AMD

GEF

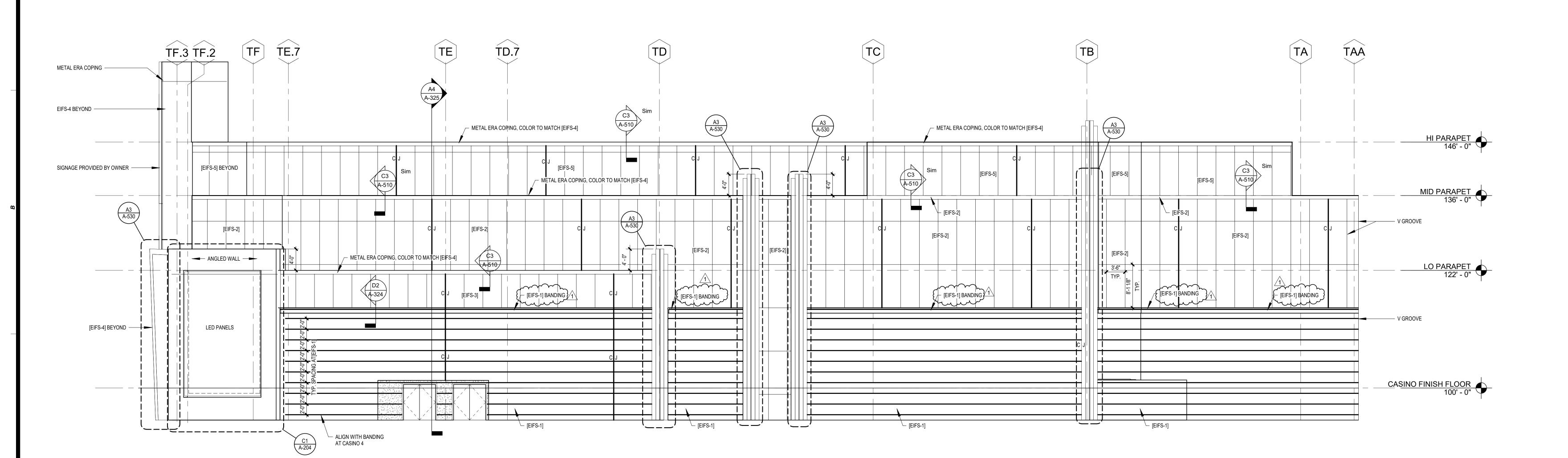
ISSUE DATE:

12/21/2018



C1 NORTHEAST/SOUTHEAST ELEVATION

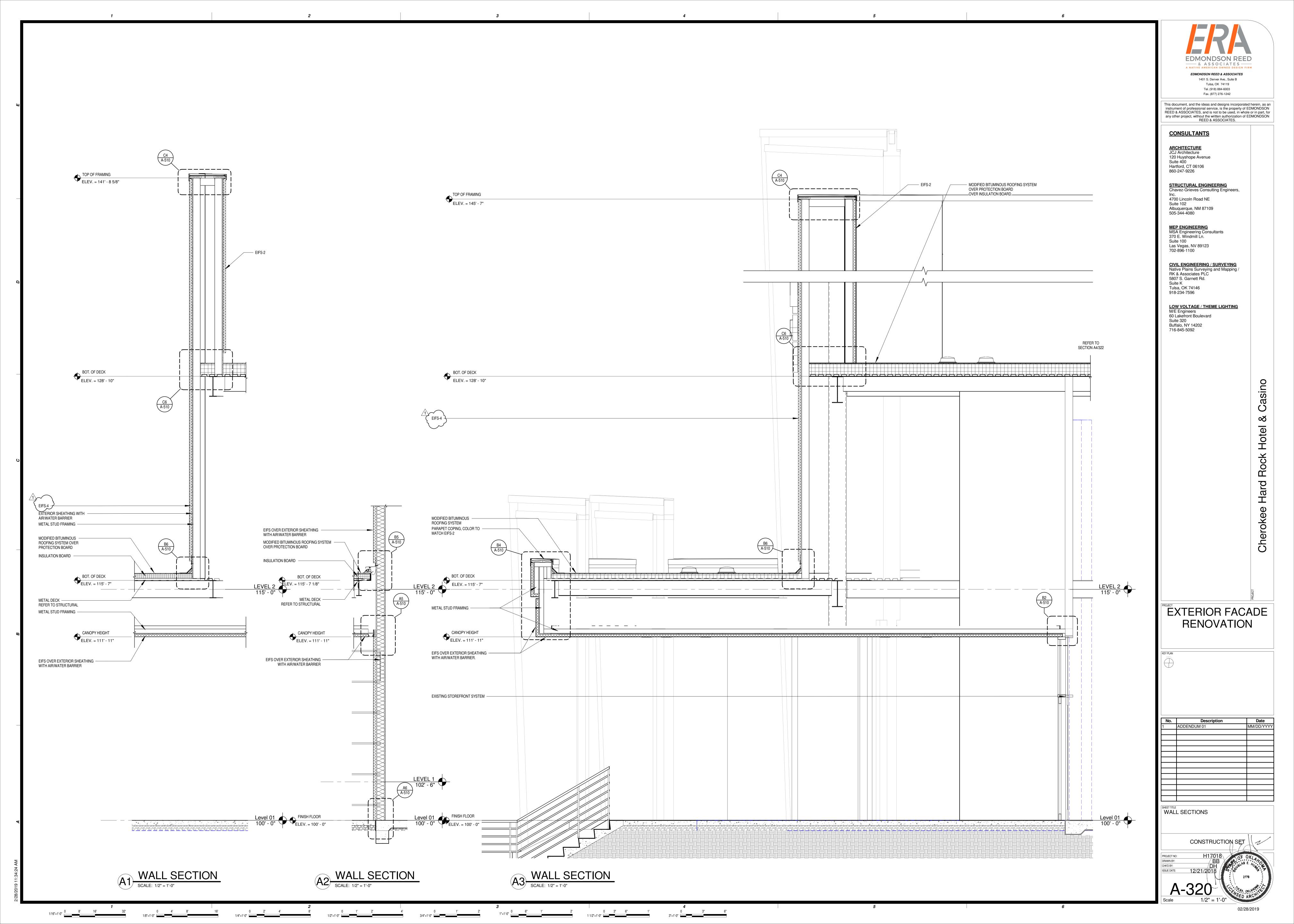
1/8" = 1'-0"

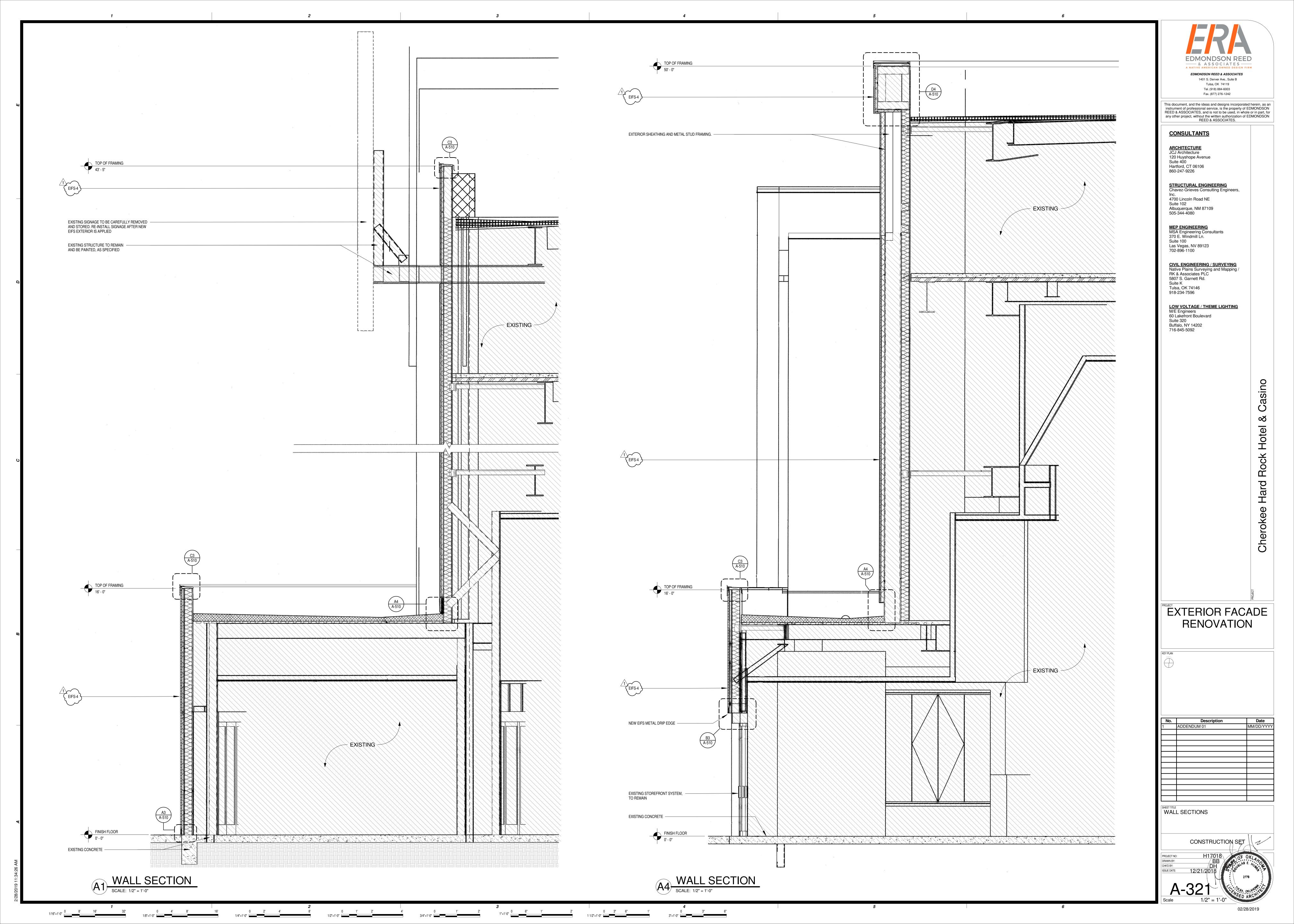


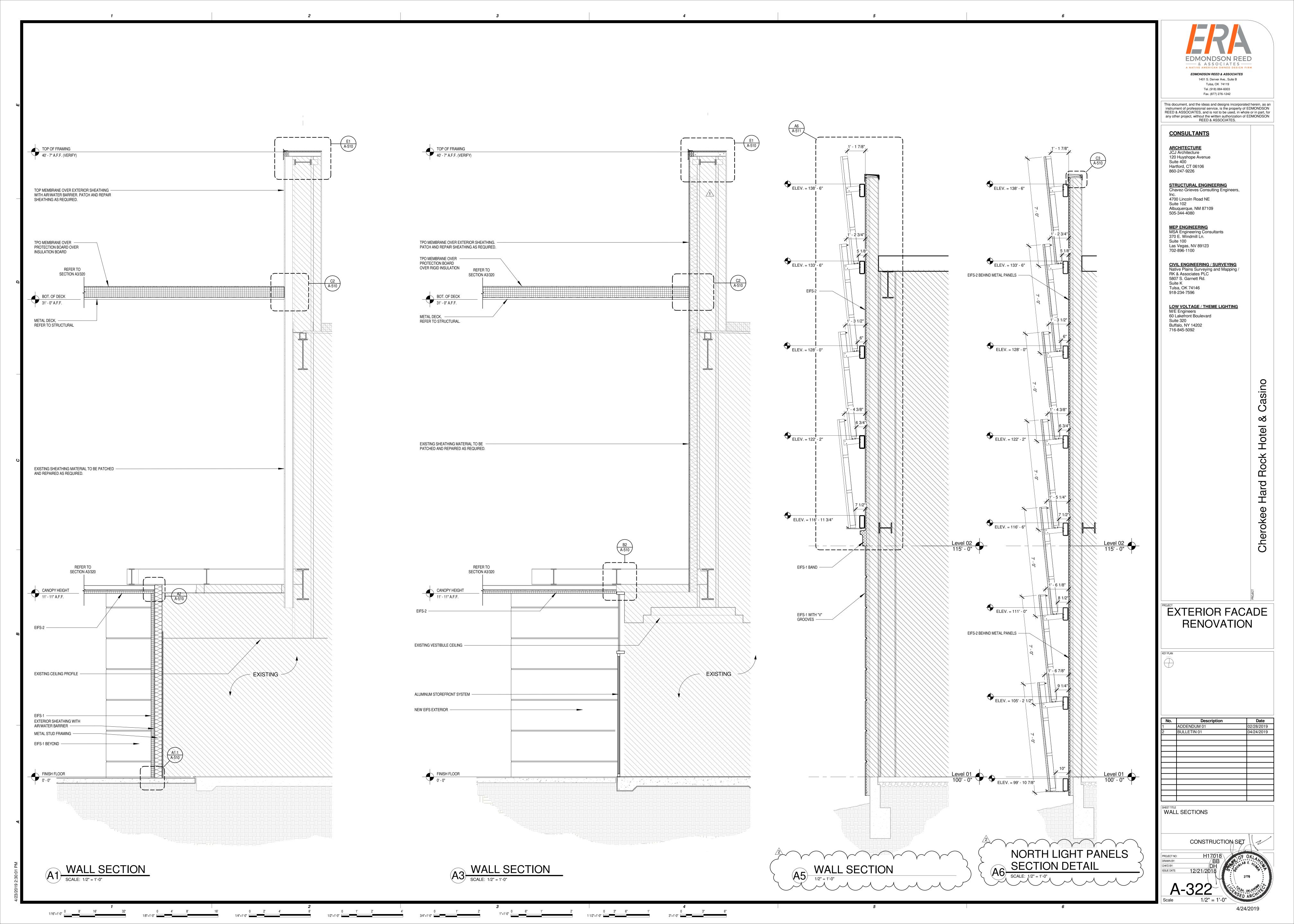
A1 NORTH ELEVATION  $\frac{1/8" = 1'-0"}{1/8"}$ 

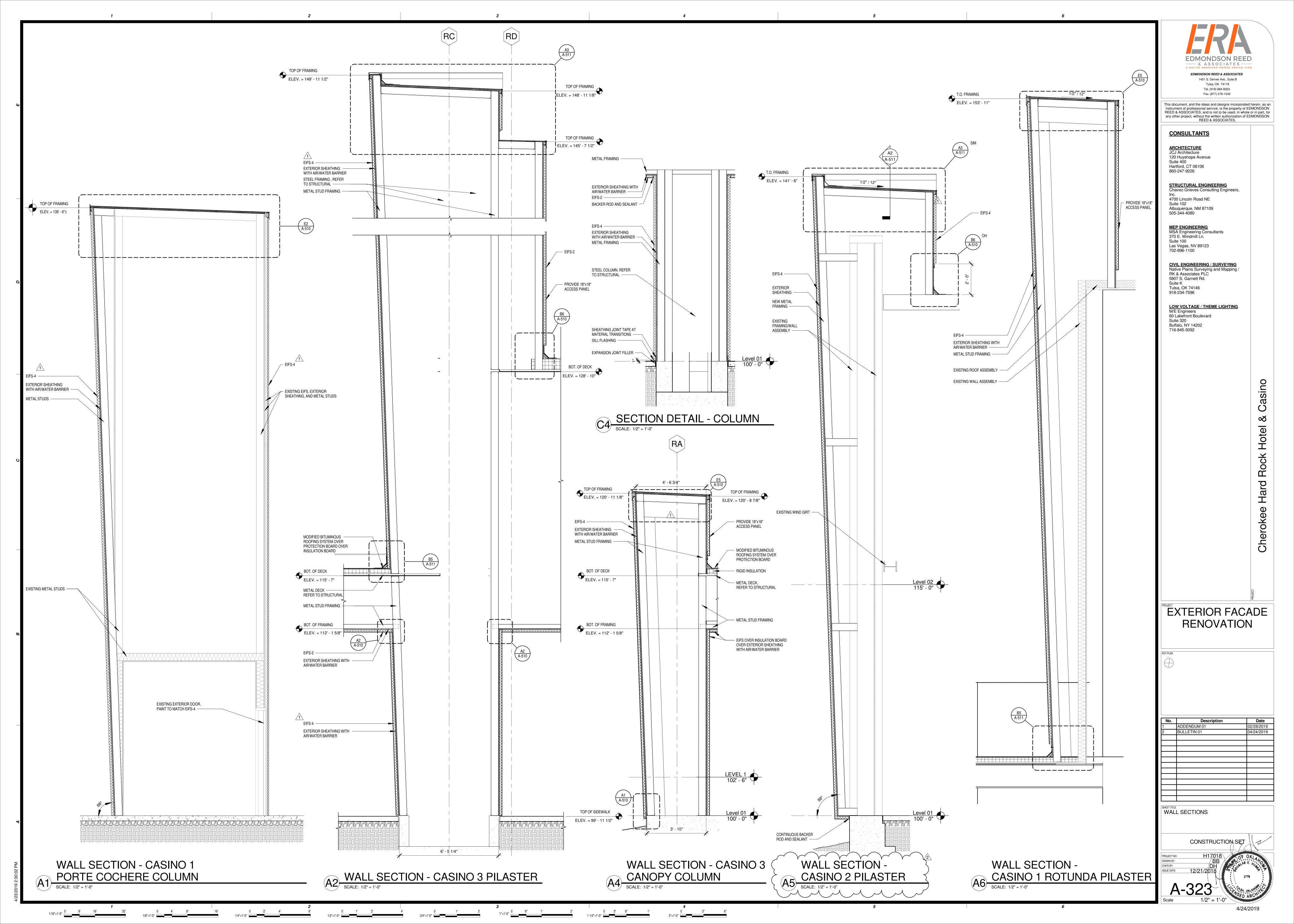
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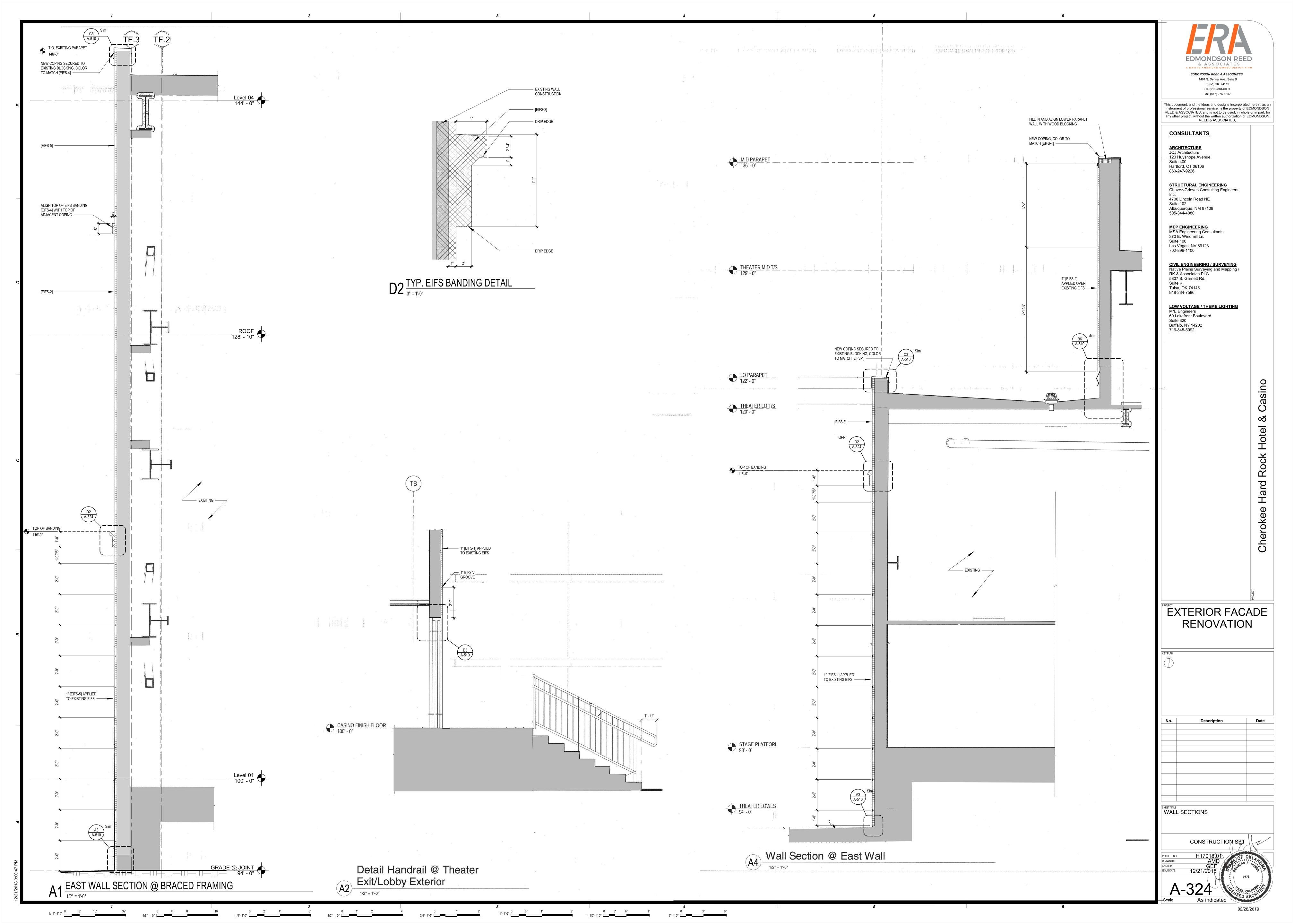
4/24/20

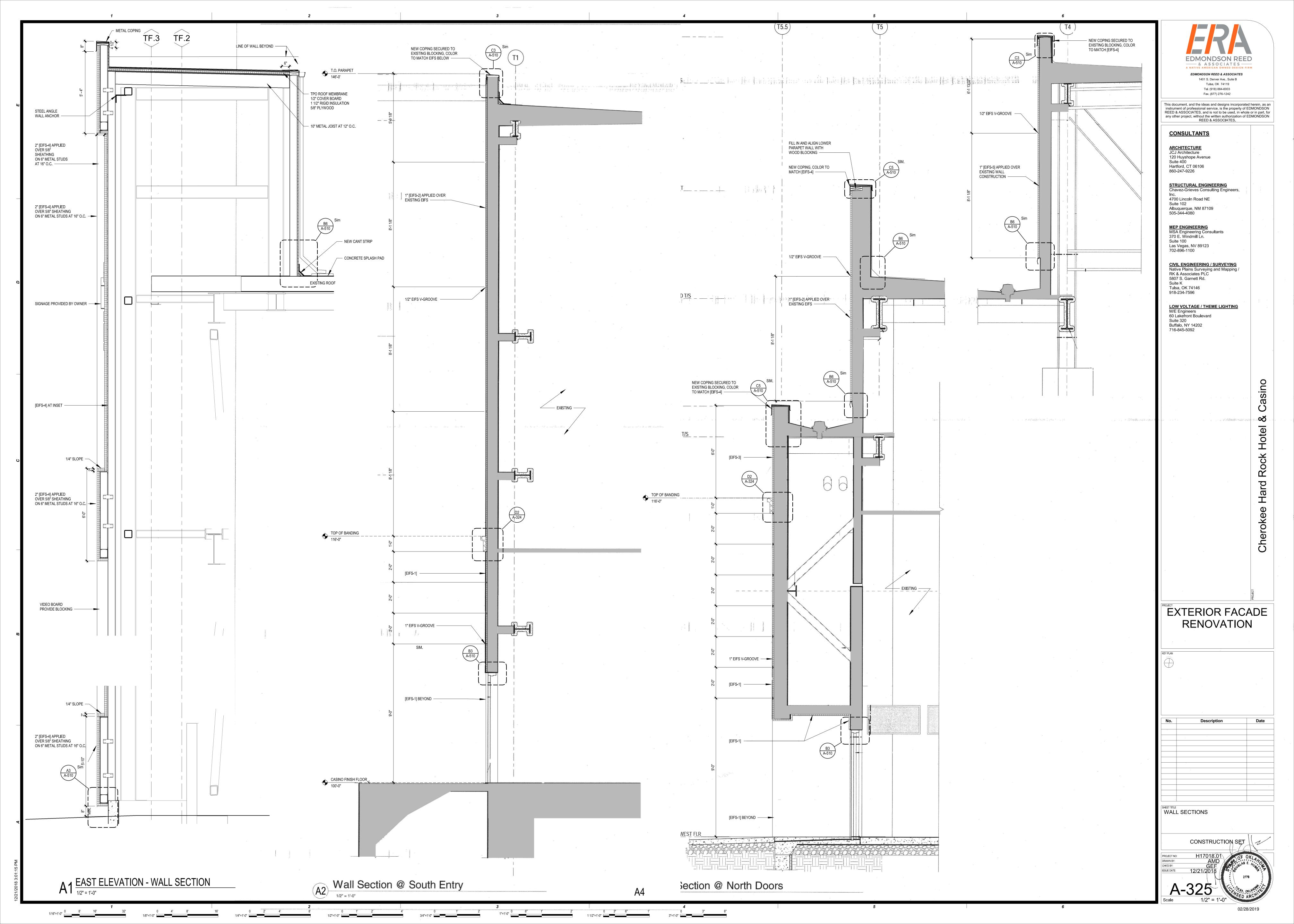










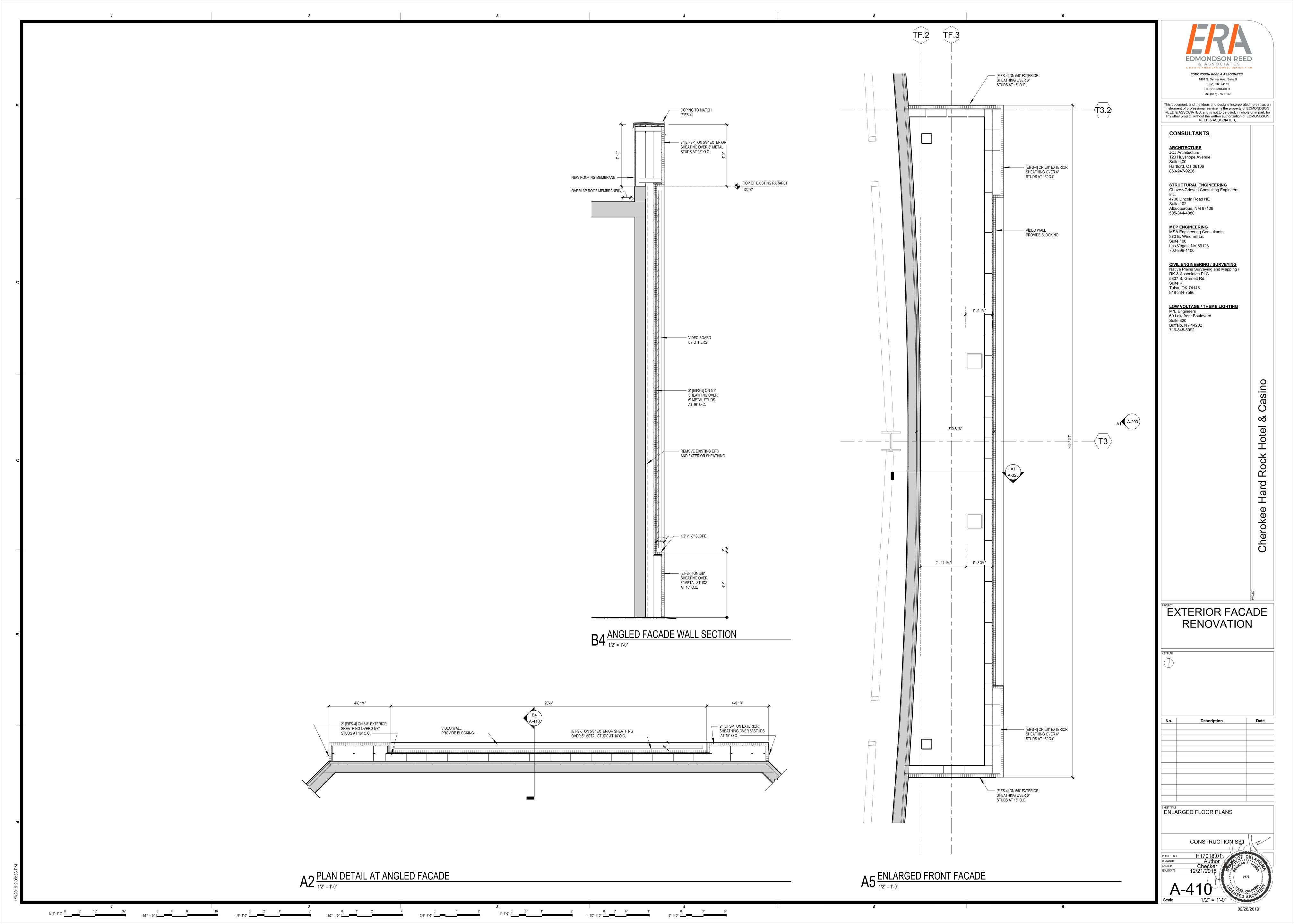


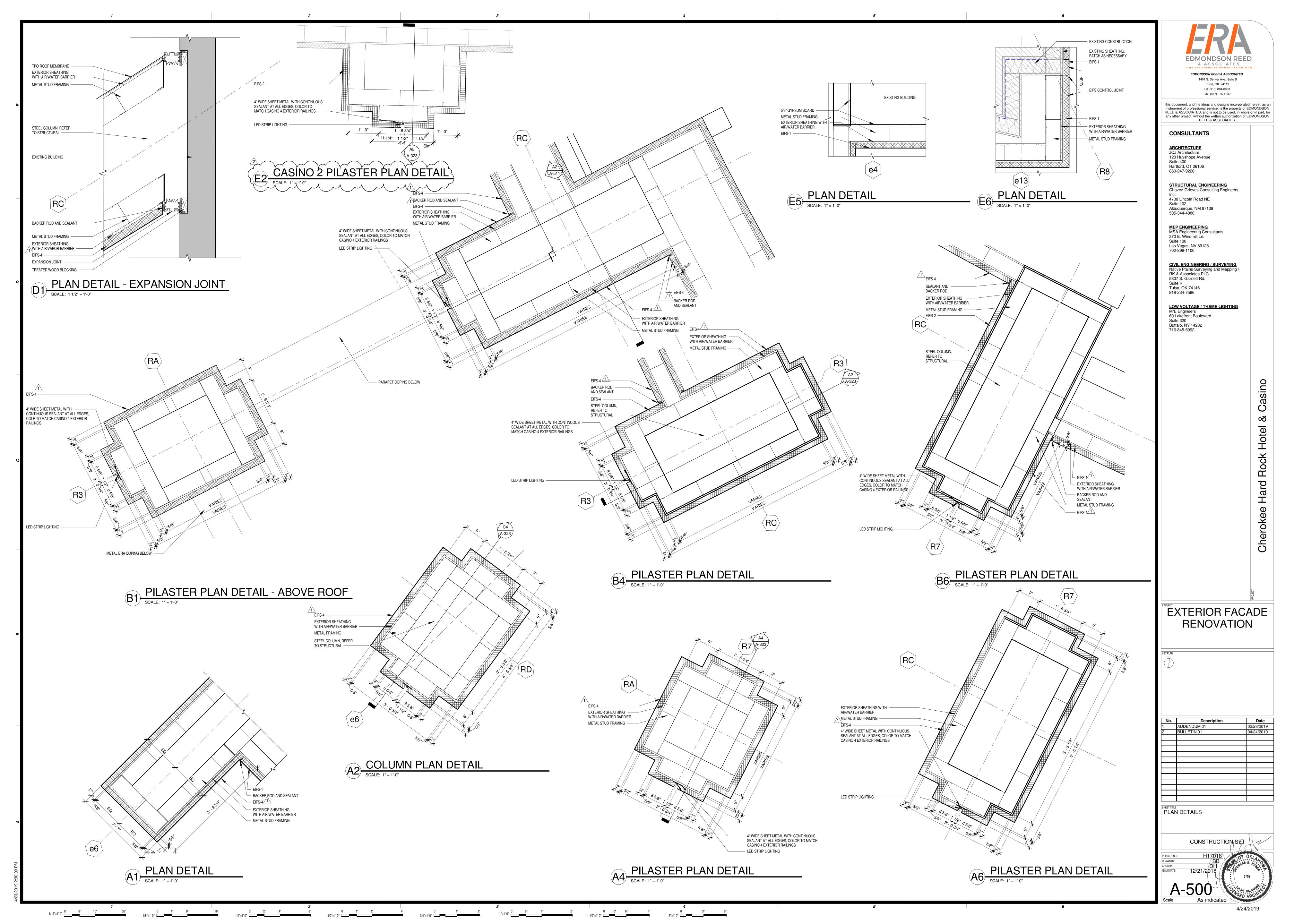
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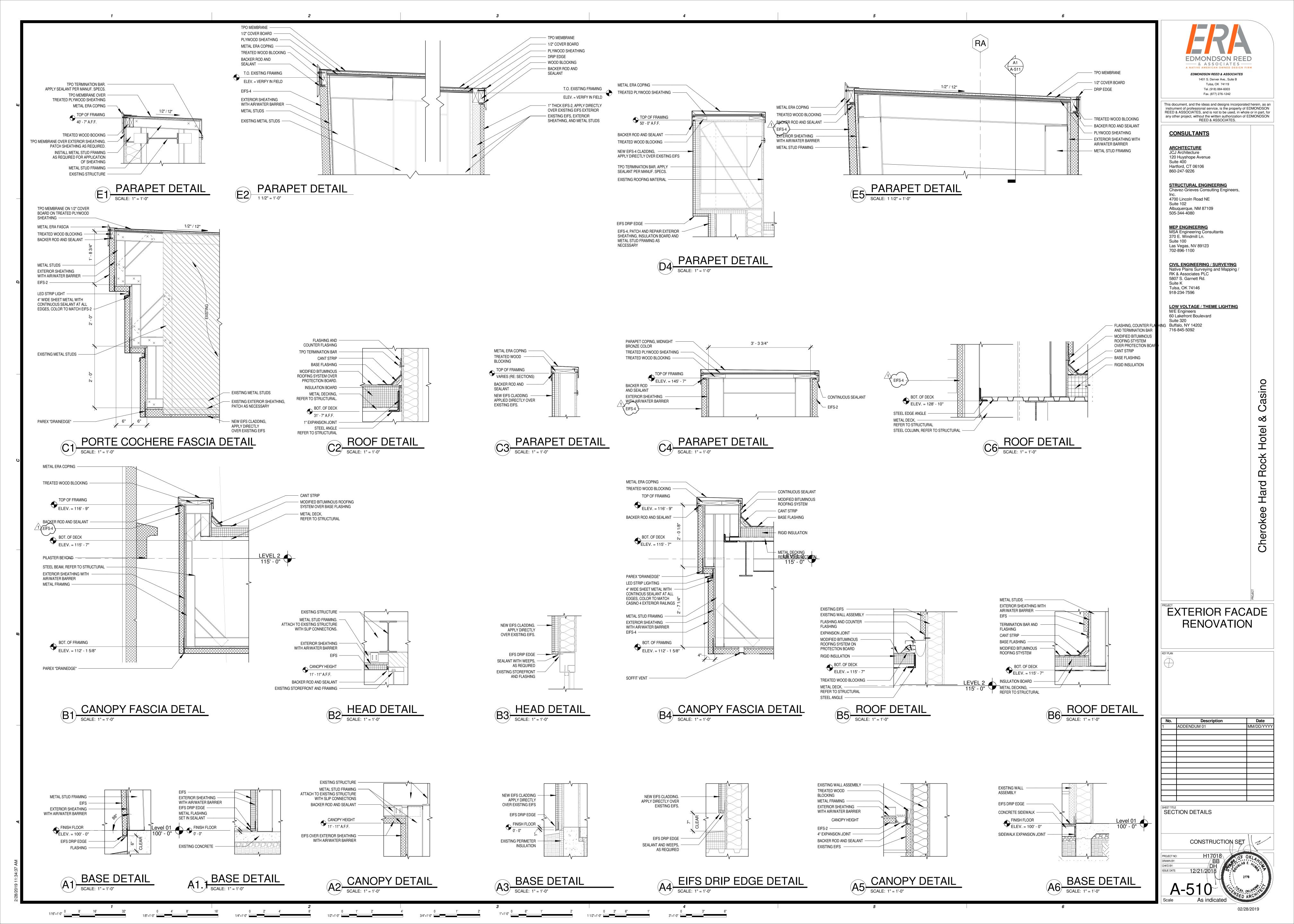
MSA Engineering Consultants

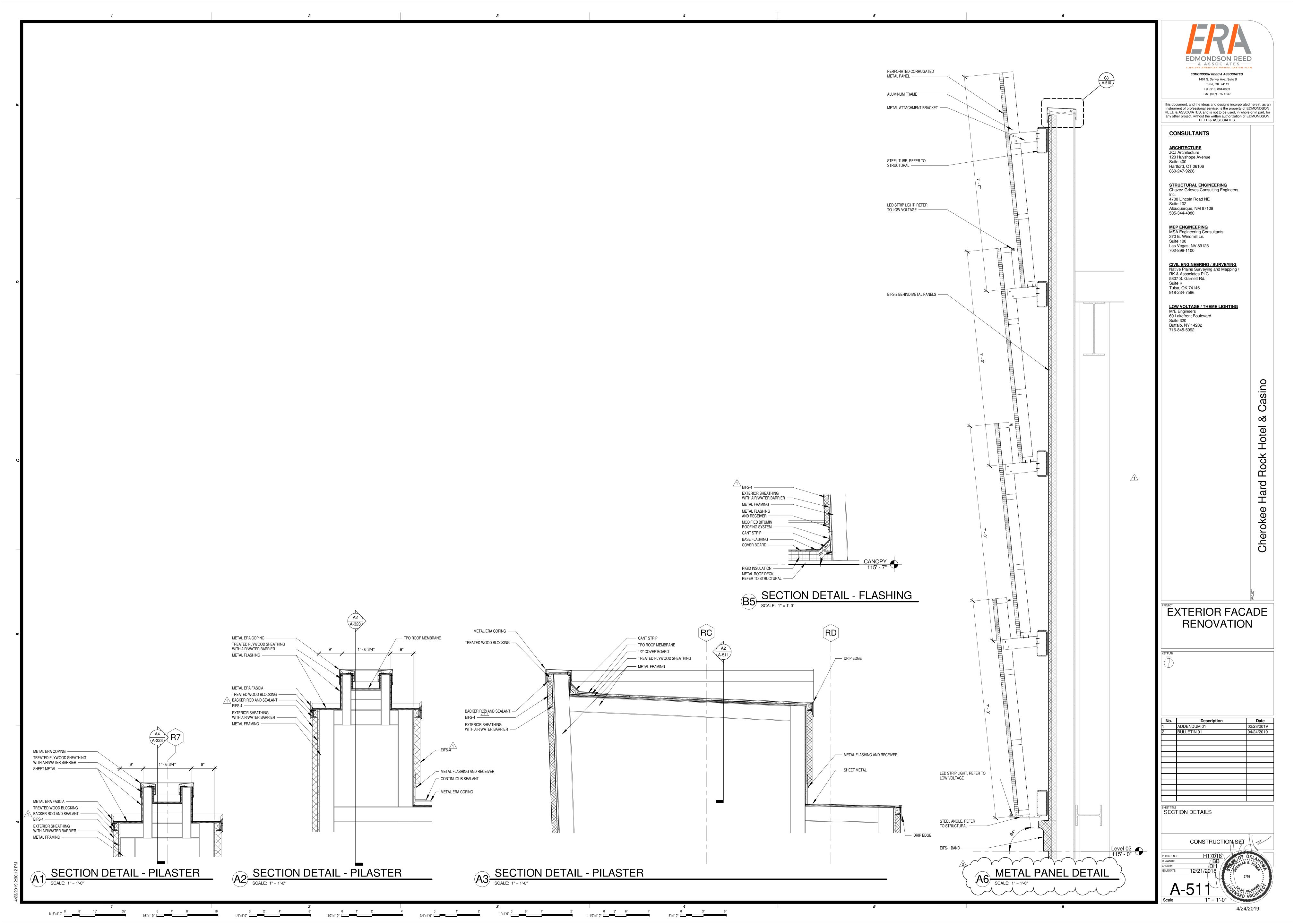
370 E. Windmill Ln. Suite 100 Las Vegas, NV 89123 702-896-1100 CIVIL ENGINEERING / SURVEYING
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RK & Associates PLC
5807 S. Garnett Rd. Suite K Tulsa, OK 74146 918-234-7596 LOW VOLTAGE / THEME LIGHTING
M/E Engineers
60 Lakefront Boulevard Suite 320 Buffalo, NY 14202 716-845-5092 Casino - [EIFS-4] ON 5/8" SHEATING OVER 6" STUD ON 6" STUD AT 16" O.C. ---- VIDEO BOARD BY OTHERS EXTERIOR FACADE RENOVATION EIFS-4] ON 5/8" SHEATHING OVER 6" STUD AT 16" O.C. Description WALL SECTIONS — [EIFS-4] ON 5/8" SHEATING OVER 6" STUD ON 6" STUD AT 16" O.C. PROGRESS SET A1 ANGLED FACADE WALL SECTION

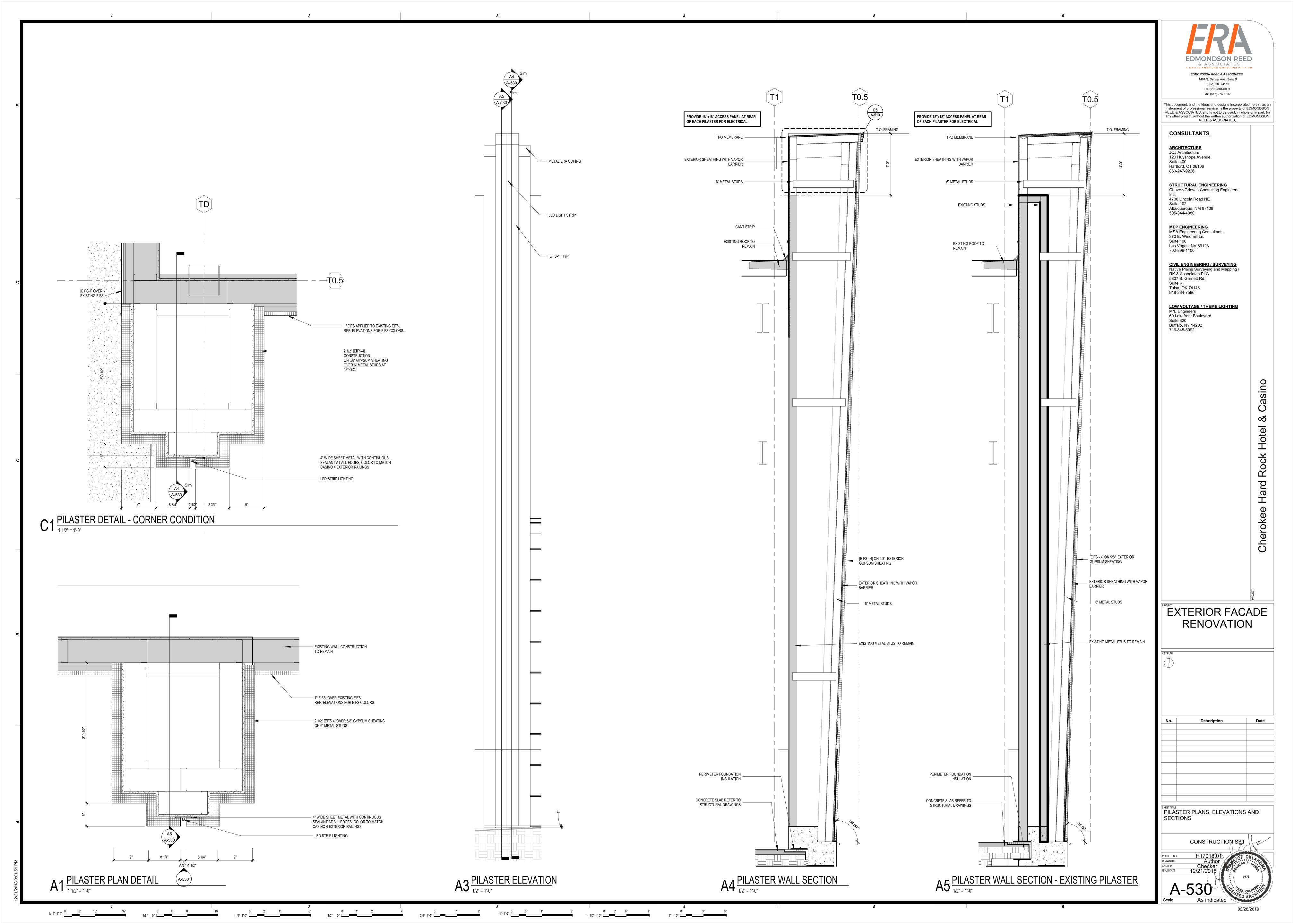
1/2" = 1'-0"



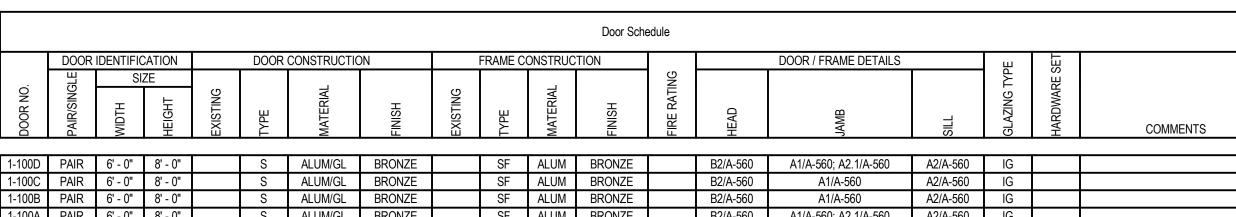








											Door Scho	edule						
	DOOR	IDENTIFIC	CATION		DOOR	CONSTRUCTIO	DN		FRAME C	ONSTRUC	TION			DOOR / FRAME DETAILS		Ш	Ä	
DOOR NO.	PAIR/SINGLE	WIDTH	THEIGHT	EXISTING	TYPE	MATERIAL	HINISH	EXISTING	TYPE	MATERIAL	HINISH	FIRE RATING	НЕАD	JAMB	SILL	GLAZING TYP	HARDWARE S	COMMENTS
1-100D	PAIR	6' - 0"	8' - 0"		S	ALUM/GL	BRONZE		SF	ALUM	BRONZE		B2/A-560	A1/A-560; A2.1/A-560	A2/A-560	IG		
1-100C	PAIR	6' - 0"	8' - 0"		S	ALUM/GL	BRONZE		SF	ALUM	BRONZE		B2/A-560	A1/A-560	A2/A-560	IG		
1-100B	PAIR	6' - 0"	8' - 0"		S	ALUM/GL	BRONZE		SF	ALUM	BRONZE		B2/A-560	A1/A-560	A2/A-560	IG		
1-100A	PAIR	6' - 0"	8' - 0"		S	ALUM/GL	BRONZE		SF	ALUM	BRONZE		B2/A-560	A1/A-560; A2.1/A-560	A2/A-560	IG		





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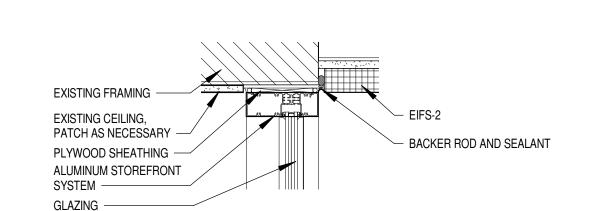
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# EXTERIOR FACADE RENOVATION

ALUMINUM FRAME ELEVATIONS AND DETAILS

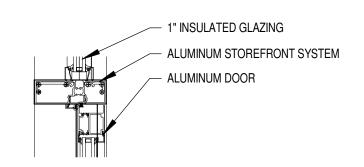
CONSTRUCTION SET

PROJECT NO: DRAWN BY: CHK'D BY: ISSUE DATE: A-560



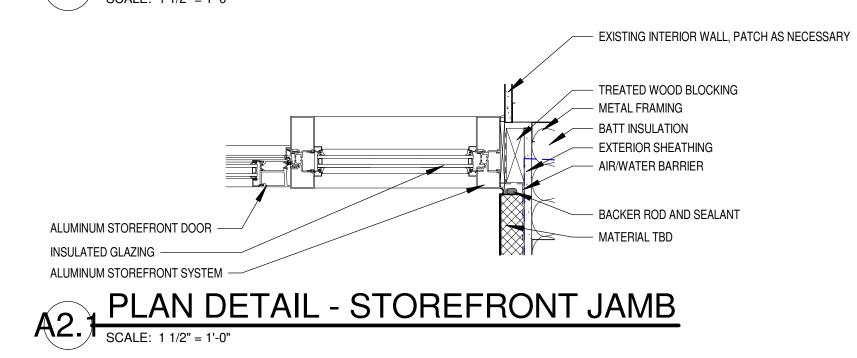
SECTION DETAIL - STOREFRONT HEAD

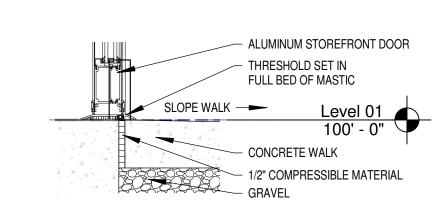
SCALE: 1 1/2" = 1'-0"



B2 SECTION DETAIL - STOREFRONT TRANSOM

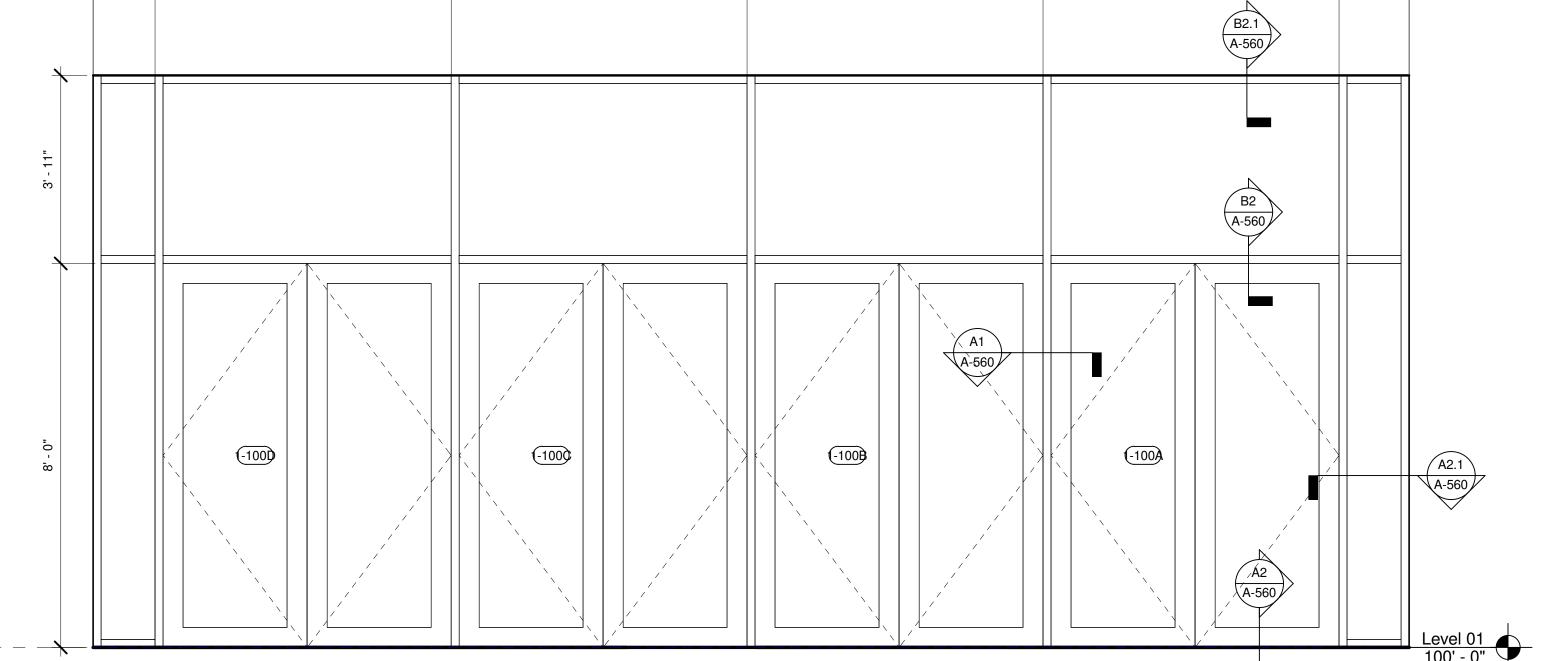
SCALE: 1 1/2" = 1'-0"





SECTION DETAIL - STOREFRONT THRESHOLD

SCALE: 1 1/2" = 1'-0"



27' - 5" (VERIFY)

6' - 2"

6' - 2"

1' - 5 1/2" ±

6' - 2"

1 ENLARGED ENTRY STOREFRONT ELEVATION
SCALE: 1/2" = 1'-0"

6' - 2"

eJ.2 PLAN DETAIL - STOREFRONT JAMB

SCALE: 1 1/2" = 1'-0"

	DRAWING INDEX					
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E-001	SPECIFICATIONS	•				
E-002	PARTIAL SINGLE LINE DIAGRAM	•				
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	TOTAL	11	4			

### **ELECTRICAL SYMBOL LIST**

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS AND/OR ABBREVIATIONS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS. FLUORESCENT FIXTURE - RECESSED, LAY-IN SWITCHGEAR FLUORESCENT FIXTURE - RECESSED, FLANGED PANELBOARD - SURFACE MOUNTED FLUORESCENT FIXTURE - SURFACE PANELBOARD - FLUSH MOUNTED FLUORESCENT FIXTURE - SUSPENDED FLUORESCENT FIXTURE - OPEN STRIP WITH WIRE GUARD EXISTING / RELOCATED PANELBOARD - FLUSH MOUNTED FLUORESCENT FIXTURE - WALL MOUNTED TRANSFORMER INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - SURFACE ENCLOSED CIRCUIT BREAKER OR RECESSED, PER FIXTURE SCHEDULE FIRE ALARM EQUIPMENT INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - WALL COMBINATION FIRE/SMOKE DAMPER INCANDESCENT, H.I.D. OR MINI-FLUORESCENT - WALL SMOKE DAMPER SHUNT TRIP STATION LOW VOLTAGE INCANDESCENT FIXTURE CONTROL STATION AT +48" TO TOP UON (PER ADA) CHANDELIER (PROVIDE 5X STRUCTURAL BACKING) FAN (PROVIDE 5X STRUCTURAL BACKING) CONTACTOR WITH INTEGRAL HOA SELECTOR SPOTLIGHT - J-BOX OR TRACK MOUNTED - TRACK LENGTH AS INDICATED MAGNETIC STARTER, SIZE I UON STEP LIGHT - SURFACE OR RECESSED, PER FIXTURE SCHEDULE DISCONNECT SWITCH: 30/3 UON (F=FUSIBLE (FPEN), N=NONFUSED)

> COMBINATION STARTER & DISCONNECT: SIZE I UON VARIABLE FREQUENCY DRIVE SINGLE-PHASE MOTOR CONTROL ASSEMBLY: HP-RATED SWITCH AND POWER RELAY-20/1 (U.O.N.) PULLBOX - SIZE AND LOCATION AS REQUIRED

EXIT LIGHT - FACES AND ARROWS AS INDICATED, JUNCTION BOX - SIZE PER NEC REQUIREMENTS MECHANICAL EQUIPMENT DESIGNATION  $\langle M \rangle$ MOTOR OUTLET

— N — NEON . KVA ( . A) C = CONNECTED LOAD FIXTURE, EQUIPMENT ON EMERGENCY SWITCHES AT +48" TO TOP UON (PER ADA) SHEET NOTE DESIGNATION  $\mathsf{S}^2$  switch - double pole SWITCH - SINGLE POLE S<sup>4</sup> SWITCH - FOUR WAY SWITCH - OCCUPANCY TYPE M SWITCH - OCCUPANCY TYPE, CIRCUITING IN WALL OR ABOVE CEILING

SWITCH - EMERGENCY SWITCH - PILOT TOGGLE (CONFIRM LIGHTED POSITION) A-1,3,5 SWITCH - KEYED OPERATED SWITCH - SLIDER TYPE ELECTRONIC DIMMER (WATTAGE RATING AS REQUIRED)

SWITCH - MOMENTARY CONTACT: SPDT CENTER OFF UON MANUAL MOTOR STARTER - POLES AND HEATERS AS REQUIRED PHOTOELECTRIC SWITCH - 1500 VA UON

SIGNAGE OUTLET CONNECTION DEVICES AT +18" TO CENTER LINE UON (PER ADA) ETC. DEVICES MOUNTED IN MULTIPLE UNDER COMMON COVER MAXIMUM HEIGHT ON WALLS = +48" TO TOP UON (PER ADA)

DEVICES MOUNTED IN OR ABOVE BACKSPLASH: MAXIMUM HEIGHT ON WALLS = +48" TO TOP UON (PER ADA) DEVICES IN MULTI-COMPARTMENT FLUSH FLOOR MOUNTED UON RECEPTACLE - DUPLEX RECEPTACLE - DUPLEX - HALF SWITCHED (TOP HALF)

RECEPTACLE - DUPLEX - INTEGRAL GFCI CIRCUITRY RECEPTACLE - DUPLEX - ISOLATED GROUND (ORANGE FACE): NEMA 520R/IG RECEPTACLE - DOUBLE DUPLEX

RECEPTACLE - DOUBLE DUPLEX - INTEGRAL GFCI CIRCUITRY RECEPTACLE - SPECIAL TYPE (SEE ADDITIONAL NOTES) RECEPTACLE(S) - CEILING MOUNTED PLUG MOLD SURFACE RACEWAY SYSTEM (2-CIRCUIT WITH OUTLETS 18" O.C. U.O.N.) MOUNTED ABOVE BACKSPLASH U.O.N.

TELEPOWER POLE SMOKE DETECTOR - LOCAL ONLY, 120V, W/INTEGRAL BATTERY AND ALARM HORN. WALL MOUNT AT 12" BELOW CEILING SMOKE DETECTOR - LOCAL ONLY, 120V, W/INTEGRAL BATTERY, STROBE, AND ALARM HORN. WALL MOUNT AT 12" BELOW CEILING OUTLET - CLOCK

OUTLET - VOICE / DATA

OUTLET - DATA OUTLET - DOOR BELL/BUZZER OUTLET - MICROPHONE OUTLET - VOLUME CONTROL (+48" TO TOP UON)

OUTLET - TELEPHONE

OUTLET - SPEAKER 8" COAXIAL W/ BACK BOX AND GRILLE OUTLET - THERMOSTAT (REF. MECHANICAL DRAWINGS) TV / SECURITY CAMERA - FIXED (MOUNTING PER PLANS)

TV / SECURITY CAMERA - PTZ - PAN, TILT, ZOOM (MOUNTING PER PLANS)

EXISTING / RELOCATED PANELBOARD - SURFACE MOUNTED

O- D- POLE OR POST - ARM OR TOP MOUNTED CUT-OFF LUMINAIRE TWIN-LAMP BATTERY PACK - UNSWITCHED, WALL MOUNTED (LOCATE 12" BELOW CEILING U.O.N.) TWIN-LAMP BATTERY PACK - UNSWITCHED, CEILING MOUNTED, FLUSH OR SURFACE PER FIXTURE SCHEDULE

UNIVERSAL MOUNTING, UNSWITCHED EXIT LIGHT - COMBINATION SINGLE FACE. ARROWS AS INDICATED WITH TWIN LAMP BATTERY PACK, UNIVERSAL MOUNTING, UNSWITCHED. EXIT LIGHT - LOW LEVEL: 6" - 8" A.F.F. TO BOTTOM, 4" MAX. OFF DOOR FRAME LIGHTING FIXTURE DESIGNATION: TYPE F1, 120 WATTS — LV — LOW VOLTAGE — LED — LED QUANTITY = 3

> EQUIPMENT LOAD SUMMARY (EXPRESSED IN KVA AND AMPS) FEEDER DESIGNATION (SEE FEEDER SCHEDULE)

> > ----- CIRCUITING IN FLOOR OR BELOW GRADE TICS = NO. OF #12 WIRES IF MORE THAN TWO: ISOLATED GROUND WIRE HOMERUN: (4) #12, 3/4"C. TO PANEL A - CIR. 1,3,5

STUB-OUT OWNOD TIUDOWN COPPER GROUND — ☐ CIRCUIT UP (SIZE PER PLANS) SO (SIZE PER PLANS)

MOISTURE SEAL-OFF 30/3 30 AMP / 3 POLE (REPRESENTATIVE)

ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMP INTERRUPTING CURRENT ATS AUTOMATIC TRANSFER SWITCH

BKBD BACKBOARD CONDUIT (WITH PULL CORD IF OTHERWISE EMPTY) CU COPPER

EXISTING TO REMAIN FUSE (DUAL-ELEMENT, TIME DELAY) FURNISHED BY OTHERS FUSE PER EQUIPMENT NAMEPLATE GROUND FAULT CIRCUIT INTERRUPTER

GROUND HAND-OFF-AUTOMATIC HORSEPOWER ISOLATED GROUND KCMIL (300 KCMIL = 300K)

NON-FUSED NOT IN CONTRACT NIGHT LIGHT NTS NOT TO SCALE EXISTING TO BE RELOCATED RIGID GALVANIZED STEEL

TRANSIENT VOLTAGE SURGE SUPPRESSION UNSW UNSWITCHED UNINTERRUPTIBLE POWER SUPPLY UNLESS OTHERWISE NOTED

WEATHER PROOF (NEMA 3R) EXISTING TO BE REMOVED XFMR TRANSFORMER



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Hard

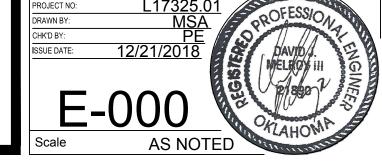
EXTERIOR FACADE

RENOVATION

KEY PLAN		
NORTH		
~		
No.	Description	Date

140.	Description	Date
	BULLETIN #1	04/24/2019

SYMBOL LIST



#### PART ONE - GENE

1.01 THE WORK: ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR ITS INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" IS DEFINED AS ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS, WHICH SHALL BE PROVIDED BY THIS CONTRACTOR WHETHER OR NOT SPECIFICALLY INDICATED OR NOTED.

1.02 <u>RESPONSIBILITY</u>: THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ACTIONS OF ITS PERSONNEL, SUPPLIERS, AND SUB-CONTRACTORS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK AS MAY BE REQUIRED TO ACCOMMODATE OR SUPPORT THE ELECTRICAL WORK. EXAMPLES: PAINTING, STRUCTURAL SUPPORTS, CUTTING AND PATCHING, EXCAVATION AND BACKFILL, CONCRETE PADS, ROOF JACKS, ETC. REQUIRING THIS CONTRACTOR'S ENGAGEMENT OF APPROPRIATE TRADES TO PERFORM SUCH WORK FOR THE PROPER INSTALLATION AND OPERATION OF COMPLETE ELECTRICAL SYSTEMS.

1.03 MINIMUM REQUIREMENTS: THESE SPECIFICATIONS ESTABLISH THE MINIMUM REQUIREMENTS FOR THE WORK AND MATERIALS, EQUIPMENT AND METHODS TO BE PROVIDED. THE DRAWINGS MAY INDICATE REQUIREMENTS WHICH EXCEED THESE MINIMUMS.

1.04 <u>GENERAL CONDITIONS</u>: ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.

### 1.05 <u>DEFINITIONS</u>: AHJ: AUTHORITY HAVING JURISDICTION.

ASSEMBLY: AN INSTALLATION OR SYSTEM OF MULTIPLE COMPONENTS REQUIRING MULTIPLE CONNECTIONS. (EXAMPLES: TRASH COMPACTOR, MOTORIZED DOOR, HVAC SPLIT SYSTEM, ETC.).

EQUAL: ACCEPTED BY THE ENGINEER AS EQUAL.

FF&E: FURNISHINGS, FIXTURES AND EQUIPMENT - PROVIDED BY OTHERS AT JOBSITE.
RECEIVE, PROTECT, STORE, ASSEMBLE, INSTALL AND CONNECT. PROVIDE MINIMUM 5x
STRUCTURAL BACKING. (EXAMPLES: CHANDELIERS, PROJECTORS, ETC.).
PROVIDE: FURNISH, INSTALL, ACTIVATE, AND COMMISSION.

1.06 <u>CODES</u>: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS

1.07 PERMITS: PAY ALL FEES AND OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
1.08 DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE, AND INDICATE THE TYPE, SIZE, ARRANGEMENT AND LOCATIONS OF MATERIALS AND EQUIPMENT. WORK INCLUDES CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES THAT MAY NOT BE SHOWN. PROVIDE ALL NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO REQUIRE FINISHED WORK, TESTED AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF FEEDERS AND BRANCH CIRCUITING SHALL BE PLUMB AND AT RIGHT ANGLES TO BUILDING CONSTRUCTION, AND MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS REQUIRING ONSITE REVISIONS DURING CONSTRUCTION. (SEE ALSO "BIDDING").

1.09 COORDINATION: THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION AND COOPERATION WITH OWNER, ARCHITECT, OTHER TRADES, VENDORS, AND SPECIALTY CONTRACTORS. CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, SHOP DRAWINGS, ETC. FOR ALL GENERAL CONSTRUCTION, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SPECIALTY CONTRACTOR WORK. PRIOR TO ROUGH-IN, COORDINATE THE WORK WITH ALL OTHER TRADES, TAKING RESPONSIBILITY FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS PLANNED WITHOUT INTERFERENCE WITH OTHER WORK. ESTABLISH AND VERIFY LOCATIONS, HEIGHTS, CONNECTION METHODS, ETC. WITH EQUIPMENT INSTALLER (AND OWNER, ARCHITECT, AND/OR INTERIOR DESIGNER FOR FF&E ITEMS), AND MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES IN ORDER TO PROVIDE ACCESS FOR THE PROPER EXECUTION OF THE WORK.

1.10 <u>IDENTICAL</u>: ALL WORK REQUIRED FOR IDENTICAL ITEMS AND ASSEMBLIES OF THE PROJECT SHALL BE PROVIDED, ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL.

1.11 <u>VERIFICATION</u>: CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING
ANY WORK. ANY DEVIATION(S) OR PROBLEM(S) SHALL BE TRANSMITTED TO THE ENGINEER FOR

1.12 CONNECTIONS: CONNECT ALL EQUIPMENT, SYSTEMS, AND ASSEMBLIES PROVIDED BY OTHERS INCLUDING CONTROLS, SAFETY DEVICES AND INTERCONNECTIONS. EXCEPTION: DO NOT INTERCONNECT THE CONTROL SYSTEMS OF THOSE MECHANICAL AND PLUMBING SYSTEMS WHICH ARE SPECIFICALLY NOTED TO BE THE RESPONSIBILITY OF THOSE TRADES. PROVIDE FUSIBLE DISCONNECT SWITCHES AND MOTOR STARTERS FOR ALL EQUIPMENT EXCEPT THOSE ITEMS WHICH ARE SPECIFICALLY LISTED WITH INTEGRAL STARTERS/DISCONNECT SWITCHES. WHERE STARTERS AND/OR DISCONNECT SWITCHES ARE FURNISHED TOGETHER WITH EQUIPMENT, RECEIVE, INSTALL, AND CONNECT THOSE ITEMS.

1.13 SUBMITTAL: SUBMIT TO THE ENGINEER COMPLETE ELECTRONIC SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN. THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER'S FAILURE TO CORRECT ERRORS IN THE SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK AS SHOWN AND/OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING FEES NECESSARY TO CHANGE PROJECT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.

1.14 OR-EQUAL SUBSTITUTIONS: ALL PROPOSED "OR EQUAL" SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR CONSIDERATION PRIOR TO BIDDING AND AFTER ALL REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT AND/OR MATERIALS HAVE BEEN COORDINATED WITH OTHER BUILDING TRADES, INCLUDING ALL MECHANICAL, STRUCTURAL, AND/OR ARCHITECTURAL ELEMENTS. THE OWNER'S REPRESENTATIVE SHALL PRE-APPROVE ANY PROPOSED SUBSTITUTION IN WRITING. IDENTIFY AND ANNOTATE ALL REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. ALSO IDENTIFY ALL COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE AND SUMMARIZE THESE AS A TOTAL NET-TO-OWNER CHARGE OR CREDIT FOR CONSIDERATION.

1.15 AS-BUILT: UPON COMPLETION OF CONSTRUCTION, SUPPLY THE ENGINEER WITH AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED. PROVIDE OPERATION AND MAINTENANCE MANUAL(S) CONTAINING APPROVED SHOP DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTION FOR SWITCHGEAR, LIGHTING FIXTURES, CONTROLS, AND SPECIALTY EQUIPMENT.

1.17 GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER (LONGER IF REQUIRED BY GENERAL AND/OR SPECIAL CONDITIONS). IN ADDITION, THE INSTALLATION SHALL BE GUARANTEED TO PERFORM AS SPECIFIED AND FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTOR'S INSTRUCTIONS. SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO, THE CONTRACTOR WILL, WITHOUT DELAY AND WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CORRECT THE DEFICIENCY AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. WHERE SPECIFIED EQUIPMENT HAS A LONGER GUARANTEE PERIOD, THE TERMS OF THAT GUARANTEE SHALL GOVERN (EXAMPLE: LED SYSTEM WITH 5 YEAR GUARANTEE). INCANDESCENT LAMPS ARE EXEMPT BUT SHALL BE NEW AND UNUSED AT THE TIME OF FINAL ACCEPTANCE.

#### **BIDDING**

1.19 SITE VISIT: CONTRACT DOCUMENTS INDICATE NEW WORK TO BE PERFORMED AND DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS. COMPARE THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS AGAINST EXISTING CONDITIONS, AND IDENTIFY AND ANNOTATE ALL WORK OR CONDITIONS THAT ARE DIFFERENT FROM THE CONTRACT DOCUMENTS OR THEIR INTENT. UPON DISCOVERY, IMMEDIATELY NOTIFY AND REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER. NO EXTRAS OR CHANGE ORDERS WILL BE ALLOWED FOR FAILURE TO PERFORM THE PRE-BID SITE VISIT.

1.20 BASIS OF PROPOSAL: PROPOSAL SHALL BE BASED ON MANUFACTURERS AND MODELS AS LISTED UNLESS "OR EQUAL" IS INDICATED. PROVIDE SUBSTITUTION REQUESTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING TO ALLOW TIME FOR DUE CONSIDERATION OF PROPOSED ALTERNATE AND SUBSEQUENT NOTIFICATION TO ALL OTHER BIDDERS IN THE EVENT SUBSTITUTION IS DEEMED ACCEPTABLE. DETERMINATION OF SUBSTITUTION EQUALITY RESTS SOLELY WITH THE ENGINEER.

1.21 VALUE ENGINEERING (V.E.) INITIATIVES: IN ADDITION TO THE "AS SPECIFIED/OR EQUAL" BASE BID, A COST REDUCTION INITIATIVE(S) MAY BE PROPOSED BASED ON SUBSTITUTIONS OF EQUIPMENT, MATERIALS, AND/OR METHODS. EACH SUCH PROPOSAL SHALL INCLUDE A DATA SHEET(S) ON THE SPECIFIED ITEM(S), THE PROPOSED SUBSTITUTE(S), AND THE NET CREDIT TO THE OWNER, INCLUDING ALL CREDITS AND CHARGES FROM ALL MEMBERS OF THE CONSTRUCTION TEAM. THE ENGINEER WILL REVIEW AND RENDER AN OPINION TO THE OWNER. IF THE V.E. INITIATIVE IS DECLINED, PROVIDE THE SPECIFIED EQUIPMENT/MATERIAL/METHOD. IF THE V.E. INITIATIVE IS ACCEPTED, AND IF SUCH ACCEPTANCE RESULTS IN A REQUIREMENT TO REVISE ANY DESIGN DOCUMENTS, THE CHARGES FOR THESE REVISIONS SHALL BE BILLED TO THE CONTRACTOR AND THE INVOICING SHALL BE SETTLED BEFORE THE PROJECT IS SIGNED OFF FOR FINAL ACCEPTANCE.

1.22 <u>BIDDING</u>: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN, AND/OR INTERIOR DRAWINGS CONTAIN DETAILED DESCRIPTIONS, CIRCUITING, AND CONNECTION REQUIREMENTS WHICH ARE PART OF THIS CONTRACTOR'S RESPONSIBILITIES. <u>DO NOT</u> SUBMIT BIDS ON THIS PROJECT PRIOR TO REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS, AND ADDENDA.

#### PART TWO - PRODUCTS

2.01 <u>MATCH EXISTING</u>: EXISTING EQUIPMENT AND SYSTEMS SHALL BE CONSIDERED A MINIMUM STANDARD TO BE MET, IF NOT OTHERWISE EXCEEDED BY THESE PLANS AND SPECIFICATIONS. NEW MATERIALS AND EQUIPMENT SHALL MATCH EXISTING IN APPEARANCE AND FUNCTION.

2.02 <u>EXISTING SWITCHGEAR</u>: CHANGES TO EXISTING PANELBOARDS AND DISTRIBUTION EQUIPMENT SHALL BE MADE WITH MATCHING COMPONENTS. NEW CIRCUIT PROTECTIVE DEVICES SHALL BE MANUFACTURER-CERTIFIED AS COMPATIBLE WITH EXISTING EQUIPMENT, AND SHALL EQUAL OR EXCEED EQUIPMENT FAULT CURRENT (AIC) RATINGS.

2.03 <u>EQUIPMENT STANDARDS</u>: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). EQUIPMENT SHALL BE CONSTRUCTED TO NEMA STANDARDS AND SHALL BE LABELED FOR THEIR INTENDED PURPOSE BY A RECOGNIZED TESTING AGENCY ACCEPTABLE TO THE AHJ (U.L., CSA, ETL, ETC.).

2.04 ACCEPTABLE MANUFACTURERS AND SUPPLIERS: WHERE EQUIPMENT AND MATERIALS ARE NOT SPECIFIED BY NAME THEY ARE DEEMED TO GENERIC, SUBJECT TO THE REQUIREMENTS LISTED HEREIN. THESE MANUFACTURERS ARE CONSIDERED CAPABLE OF OFFERING EQUIVALENT PRODUCTS. MINIMUM STANDARD IN ALL INSTANCES IS COMMERCIAL GRADE:

SWITCHGEAR: EATON, GENERAL ELECTRIC, SIEMENS, SQUARE D

LIGHT FIXTURES: ACUITY, COOPER, HUBBELL, THOMAS

WIRING DEVICES: HUBBELL, LEVITON, LEGRAND, WIREMOLD

2.05 CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL INSULATED THROAT SET SCREW FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. IMC OR RIGID CONDUIT BELOW GRADE SHALL BE HALF-LAP WRAPPED WITH 20 MIL PVC TAPE. TYPE ENT RACEWAY IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND/OR VIBRATING EQUIPMENT WITH STEEL FLEX OR SEALTITE CONDUIT. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY.

2.06 MC CABLE: MC CABLE MAY BE USED IN LOCAL 1- AND 2-CIRCUIT APPLICATIONS ACCEPTABLE TO THE AHJ. HOMERUNS AND FEEDERS SHALL BE CONDUIT AND WIRE.
 2.07 WIRING: ALL WIRE SHALL BE COPPER UNLESS OTHERWISE NOTED, STRANDED IN SIZES #8 AWG AND

2.07 WIRING: ALL WIRE SHALL BE COPPER UNLESS OTHERWISE NOTED, STRANDED IN SIZES #8 AWG AND LARGER. WHERE ALUMINUM IS INDICATED, WIRE SHALL BE COMPACTED-STRAND TYPE WITH JOINT COMPOUND AT TERMINATIONS. INSULATION SHALL BE TYPE THWN OR THHN (XHHW FOR ALUMINUM). ALUMINUM CONDUCTORS SHALL NOT BE USED IN SIZES SMALLER THAN #1/0 (100A EQUIPMENT FEEDER), AND WHEN USED SHALL BE TERMINATED IN INSULATED COMPRESSION-TYPE CU/AL FITTING. SINGLE PHASE BRANCH CIRCUITS SHALL INCLUDE A SEPARATE NEUTRAL WIRE WITH EACH PHASE WIRE. NEUTRAL SHALL BE WHITE WITH COLOR STRIPE MATCHING COLOR OF PHASE WIRE.

2.08 <u>FUSES AND CIRCUIT BREAKERS</u>: FUSES AND CIRCUIT BREAKERS SHALL BE SIZED PER ACTUAL RESPECTIVE APPLICATION (i.e., MOTOR CIRCUIT PROTECTOR, GROUND FAULT CIRCUIT INTERRUPTER, ARC FAULT CIRCUIT INTERRUPTER, ETC.). FUSES SHALL BE DUAL ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. PROVIDE LOCKABLE SPARE FUSE CABINET WITH (3) SPARE FUSES OF EACH SIZE USED.

2.09 PANELBOARDS: PANELS SHALL HAVE ALUMINUM BUS AND HARDWARE, BOLT-ON CIRCUIT BREAKERS, FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR-IN-DOOR) WITH LOCKABLE MASTER-KEYED FLUSH LATCHES. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: (1) 3/4" CONDUIT FOR EACH THREE (3) SPARE/SPACE CIRCUITS.
 2.10 SAFETY SWITCHES: SWITCHES SHALL BE GENERAL DUTY UP TO 250 VOLTS, HEAVY DUTY ABOVE 250 VOLTS. FUSIBLE SWITCHES SHALL BE FUSED PER THE NAMEPLATE REQUIREMENTS OF THE EQUIPMENT BEING CONNECTED.

2.11 MOTOR STARTERS: STARTERS SHALL BE MINIMUM NEMA SIZE 1 WITH INTEGRAL CONTROL TRANSFORMER, RED NEON "RUN" PILOT LIGHT AND "ON-OFF-AUTO" SELECTOR SWITCH ON COVER. OVERLOAD DEVICES SHALL BE SIZED PER THE NAMEPLATE AMPERAGE OF THE EQUIPMENT BEING CONTROLLED.

2.12 <u>CONTACTORS</u>: CONTACTORS SHALL BE ELECTRICALLY HELD WITH "ON-OFF-AUTO" SELECTOR SWITCH ON COVER.
 2.13 <u>RATINGS</u>: ALL ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR BRACING IN EXCESS OF THE MAXIMUM AVAILABLE FALLE CURRENT CALCULATED AND SHOWN AT THE FOLLIPMENT CONNECTION.

MAXIMUM AVAILABLE FAULT CURRENT CALCULATED AND SHOWN AT THE EQUIPMENT CONNECTION POINT WITHIN THE DISTRIBUTION SYSTEM. MINIMUM RATING SHALL BE 10K AIC.

2.14 TRANSFORMERS: TRANSFORMERS SHALL BE TYPE TP-1 MINIMUM, WITH ALUMINUM WINDINGS, RATED FOR 150°C RISE (UNLESS OTHERWISE NOTED), MOUNTED ON RUBBER-IN-SHEAR VIBRATION ISOLATORS, CONNECTED WITH FLEXIBLE CONDUIT. PUBLISHED AND MEASURED NOISE RATING

SHALL NOT EXCEED NEMA TP-20 MAXIMUM.

2.15 LIGHTING FIXTURES: LIGHT FIXTURES SHALL BE PROVIDED WITH ALL ASSOCIATED HARDWARE (HANGER BARS, PENDANTS, STEMS, RESTRAINTS, CHAINS, CORDS, LAMPS, ETC.). LENSES SHALL BE ACRYLIC, REFLECTORS SHALL BE ANODIZED. FLUORESCENT BALLASTS SHALL BE ELECTRONIC, PROGRAM RAPID START, THD LESS THAN 10%. FLUORESCENT LAMPS SHALL HAVE MINIMUM CRI OF 80%. INCANDESCENT LAMPS SHALL BE 130 VOLT, INSIDE FROST, MINIMUM 2000 HOUR LIFE. LOW VOLTAGE INCANDESCENT LAMPS SHALL BE HIR HALOGEN, MINIMUM 3000 HOUR LIFE. EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED TO PREVENT WATER, DUST AND INSECT INTRUSION, WITH GASKETING FOR DOOR/BACKPLATE AND SEALANT AT THE WIRING ENTRY POINT. REFER TO LIGHTING FIXTURE SCHEDULE WITHIN PLAN SET FOR ADDITIONAL REQUIREMENTS (LED CRITERIA, ETC.).

2.16 <u>IDENTIFICATION</u>: IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS, AND ELECTRICALLY-CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED. IDENTIFY WIRING DEVICES WITH SELF ADHESIVE CLEAR SATIN FINISH LABELS WITH SOURCE AND CIRCUIT NUMBER.

WITH SELF ADHESIVE CLEAR SATIN FINISH LABELS WITH SOURCE AND CIRCUIT NUMBER.

2.17 TAMPERPROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE DEMONSTRATED TO BE TAMPERPROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PAD LOCKABLE.

#### PART THREE - EXECUTION

3.01 <u>GROUNDING</u>: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH THE REQUIREMENTS OF NEC ARTICLE 250. PROVIDE CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUIT RACEWAYS. WHERE ISOLATED GROUNDS ARE INDICATED, PROVIDE INSULATED CONDUCTOR (GREEN WITH YELLOW STRIPE).

3.02 <u>DEMOLITION</u>: PROVIDE COMPLETE ELECTRICAL DEMOLITION - REMOVE EXISTING OUTLETS AND EQUIPMENT IN CONFLICT WITH NEW CONDITIONS. EXISTING CONDUITS REMOVED FROM SERVICE MAY BE ABANDONED IN PLACE IF IN A CONCEALED LOCATION. REMOVE ALL WIRE FROM ABANDONED RACEWAYS. CONTRACTOR SHALL ENSURE CONTINUITY OF EXISTING CIRCUITING PASSING THROUGH DEMOLITION AREAS - EXTEND AND/OR RELOCATE AS NECESSARY. SHIFT OR RELOCATE EXISTING EQUIPMENT AND CIRCUITING AS REQUIRED TO ACCOMMODATE NEW WORK.

3.03 SALVAGE: ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. ANY EQUIPMENT SELECTED BY OWNER SHALL BE DELIVERED TO OWNER ON SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

3.04 EXISTING SWITCHGEAR: REUSE EXISTING SWITCHGEAR AND PANELBOARDS IN PLACE WHERE SO INDICATED - MODIFY AS REQUIRED TO ACCOMMODATE NEW REQUIREMENTS. PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSES AS REQUIRED WITH AIC RATING TO MEET OR EXCEED THAT OF EXISTING DEVICES. REARRANGE EXISTING CIRCUITS WITHIN PANELS TO AGREE WITH NEW PANEL SCHEDULES. TRACE AND IDENTIFY ALL EXISTING CIRCUITS ON NEW TYPED AS-BUILT PANEL SCHEDULES.

3.05 <u>EXISTING OUTLETS</u>: EXISTING OUTLETS AND CIRCUITING NOT IN CONFLICT WITH NEW CONDITIONS SHALL REMAIN. EXTEND OUTLETS TO NEW SURFACES, CAULK AND PROVIDE JUMBO PLATES AS REQUIRED TO PRESENT A SERVICEABLE AND FINISHED APPEARANCE.
 3.06 TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER DISTRIBUTION AND

LIGHTING AS REQUIRED FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT IN COMPLIANCE WITH ALL NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS).

3.07 LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER AT NO ADDED COST.

3.08 WORKMANSHIP: THE WORK SHALL BE INSTALLED PARALLEL AND AT RIGHT ANGLES TO THE BUILDING LINES, LEVEL AND PLUMB. THE WORK SHALL BE WELL SUPPORTED AND SOLIDLY MOUNTED. DRESS AND TIE WIRING IN PANELBOARDS AND SWITCHGEAR. THE WORK SHALL BE LEFT CLEAN WITH NO DIRT, DENTS, ABRASIONS, PAINT SPLATTERS, OR OTHER IRREGULARITIES.

3.09 <u>FIRE STOPPING</u>: ALL PENETRATED FIRE RATED SURFACES SHALL BE FIRE SEALED WITH APPROVED U.L LISTED SEALANTS AS LISTED WITHIN ARCHITECTURAL SPECIFICATIONS. DO NOT EXCEED MAXIMUM ALLOWABLE SURFACE PENETRATIONS DEPENDENT ON RATING OF SURFACES. REFER TO ARCHITECTURAL DRAWINGS FOR DETERMINATION OF PENETRATION LOCATIONS THROUGH FIRE RATED ASSEMBLIES.

3.10 SUPPORTS AND HANGERS: PROVIDE 3" HIGH HOUSEKEEPING CONCRETE PAD BENEATH FLOOR MOUNTED EQUIPMENT, EXTENDING 3" BEYOND EQUIPMENT FOOTPRINT. SUPPORT AND ALIGN ALL RACEWAYS, CABINETS, BOXES, BACK BOXES, FIXTURES, AND EQUIPMENT FROM STRUCTURE. SECURE ALL SUPPORTING METHODS BY MEANS OF TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION BOLTS IN SOLID MASONRY, CONCRETE PRESET INSERTS OR EXPANSION BOLTS IN CONCRETE, MACHINE SCREWS OR BOLTS IN METAL, AND WOOD SCREWS IN WOOD CONSTRUCTION. ALL SUPPORTING SYSTEMS AND COMPONENTS SHALL BE RATED FOR A MINIMUM OF FIVE (5) TIMES THE ACTUAL LOAD.

3.11 <u>SLEEVES AND PENETRATIONS</u>: PENETRATIONS OF ALL SURFACES SHALL BE PROVIDED WITH SLEEVES THAT SHALL BE SEALED WITH LIKE MATERIALS AND SHALL BE FINISHED WITH ESCUTCHEON PLATES. PENETRATIONS BELOW GRADE LEVEL SHALL BE WATERTIGHT. PENETRATIONS AT EXTERIOR WALLS SHALL BE WEATHERPROOF. ROOF PENETRATIONS SHALL BE FLASHED AND COUNTER FLASHED.

3.12 EXPANSION AND CONTRACTION: RACEWAYS PASSING THROUGH BUILDING EXPANSION JOINTS, ON ROOF, AND IN AREAS OF TEMPERATURE VARIATIONS GREATER THAN 30°F SHALL BE INSTALLED WITH EXPANSION FITTINGS.

3.13 IDENTIFICATION: IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS AND ELECTRICALLY-CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. BOXES SHALL BE MARKED WITH PANEL AND CIRCUIT NUMBERS (PERMANENT PEN ACCEPTABLE ABOVE CEILING). NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED. CONDUCTORS SHALL BE TAGGED WITH CIRCUIT NUMBERS AT SOURCE, JUNCTION BOXES, AND ALL OUTLET BOXES WITH PERMANENT ADHESIVE MARKER STRIP.

3.14 ELECTRIC ROOM CODE COMPLIANCE: DUE TO THE DIAGRAMMATIC NATURE OF THE DESIGN DOCUMENTS (ELECTRICAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, ETC.), COORDINATE WITH ALL OTHER SUBCONTRACTORS AT THE START OF THIS PROJECT TO INFORM AND VERIFY THAT NO FOREIGN SYSTEMS OR EQUIPMENT ARE MOUNTED ABOVE ELECTRICAL EQUIPMENT OR PASS THROUGH THE DESIGNATED ELECTRIC ROOMS, AND THAT A MINIMUM OF 7'-0" IS PROVIDED AS CLEAR HEADROOM ALONG ACCESS PATHS TO ELECTRIC ROOMS. ANY REROUTING OR RELOCATION OF SYSTEMS THAT A SUBCONTRACTOR FEELS WILL COMPROMISE THE DESIGN INTENT SHALL BE DESCRIBED IN WRITING AND FORWARDED TO THE DESIGN ENGINEER FOR FURTHER REVIEW. ALL PIPING TO HVAC UNITS THAT COOL ELECTRIC ROOMS SHALL BE LOCATED ABOVE ENTRY DOOR. THE SPRINKLER PIPING TO PROVIDE PROTECTION FOR THE ELECTRIC ROOM IS PREFERRED TO ENTER THE ROOM ABOVE THE ENTRY DOOR AND RUN DOWN THE AISLE SPACES OF THE ROOM. ALL INSTALLATIONS SHALL BE FULLY COORDINATED AMONGST ALL TRADES.

3.15 ELECTRICALLY-OPERATED EQUIPMENT: VERIFICATION AND SUBSTITUTION: FEEDERS AND OVER-CURRENT DEVICES (INCLUDING STARTERS, DISCONNECTS, ETC.) HAVE BEEN DESIGNED BASED ON INFORMATION PROVIDED BY THE RESPONSIBLE CONSULTANT AND/OR DESIGNATED SUPPLIER. PRIOR TO ROUGH-IN, COORDINATE WITH THE APPROPRIATE TRADE AND/OR INSTALLER TO DETERMINE THAT THE ACTUAL NAMEPLATE ELECTRICAL REQUIREMENTS MATCH THIS DESIGN. ALL ADDITIONAL ELECTRICAL COSTS RELATED TO THE CONNECTION OF EQUIPMENT WHICH VARIES FROM THE ORIGINAL SPECIFICATIONS SHALL BE RESOLVED WITHIN THE CONSTRUCTION TEAM AT NO ADDITIONAL COST TO THE OWNER.

3.16 HOURS OF OPERATION: CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING BUSINESS OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT, AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS, AND/OR FIRE ALARM SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY OWNER OR RESIDENT ENGINEER. OUTAGES SHALL BE MOMENTARY IN NATURE, EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE.

## PART FOUR - SPECIAL SYSTEMS 4.01 THIRD PARTY TESTING: PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ALL

EQUIPMENT, CONDUCTORS, GROUND FAULT, GROUND FAULT COORDINATION STUDY WITH REPORT PREPARATION, ETC. AS REQUIRED BY THE NEC, AHJ AND ALL OTHER GOVERNING AUTHORITIES.

EDMONDSON REED

& ASSOCIATES

A NATIVE AMERICAN OWNED DESIGN FIRM

1401 S. Denver Ave., Suite B Tulsa, OK 74119 Tel. (918) 884-6003 Fax. (877) 276-1242

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CIVIL ENGINEERING / SURVEYING

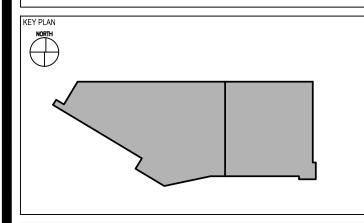
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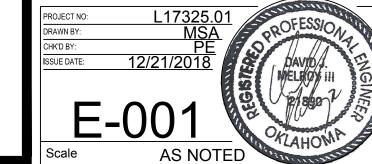
# EXTERIOR FACADE RENOVATION



Description

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SPECIFICATIONS



**GENERAL NOTES:**  MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @ 208/120V UNLESS OTHERWISE NOTED. 2. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE A.I.C. RATINGS INDICATED FOR EACH DEVICE ARE ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM. EDMONDSON REED & ASSOCIATES 3. THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP 1401 S. Denver Ave., Suite B CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2011 NATIONAL Tulsa, OK 74119 ELECTRICAL CODE ARTICLE 210.19(A)(1), FPN NO. 4. Tel. (918) 884-6003 Fax. (877) 276-1242 4. PANELBOARD LOAD SUMMARIES INCLUDE ADDITIONAL 25% OF ALL CONTINUOUS AND LARGEST MOTOR LOADS WHERE APPLICABLE. This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of EDMONDSON REED ASSOCIATES, and is not to be used, in whole or in part, for any other project, without the written authorization of EDMONDSON REED ASSOCIATES. SHEET NOTES: 1> PROVIDE NEW CIRCUIT BREAKER INDICATED WITH ALL REQUIRED MOUNTING HARDWARE. NEW CIRCUIT BREAKER AIC SHALL MATCH EXISTING. **CONSULTANTS** (2) 4"C - 8#500K, 2#1 GND, THHN/THWN, CU. **ARCHITECTURE**  $\langle 3 \rangle$  4"C - 3#500K, 1#2 GND, THHN/THWN, CU. 120 Huyshope Avenue (4) (3) 4"C - 12#500K, 3#2/0 GND, THHN/THWN, CU. Suite 400 Hartford, CT 06106  $\langle 5 \rangle$  2"C - 4#1/0, 1#6 GND, THHN/THWN, CU. 860-247-9226 (6) 4"C - 3#350K, 1#4 GND, THHN/THWN, CU. STRUCTURAL ENGINEERING (2) 3"C - 8#250K, 2#1/0 GND, THHN/THWN, CU. Chavez-Grieves Consulting Engineers, 8 EQUIPMENT IS LOCATED IN MAIN EQUIPMENT ROOM/YARD FOR CASINO 2. VERIFY EXACT LOCATION WITH OWNER'S FACILITIES DEPARTMENT REPRESENTATIVE PRIOR TO 4700 Lincoln Road NE Suite 102 COMMENCEMENT OF WORK. Albuquerque, NM 87109 505-344-4080 9 EQUIPMENT IS LOCATED IN MAIN EQUIPMENT ROOM FOR CASINO 1. VERIFY EXACT LOCATION WITH OWNER'S FACILITIES DEPARTMENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. MEP ENGINEERING
MSA Engineering Consultants 370 E. Windmill Ln. Las Vegas, NV 89123 702-896-1100 CIVIL ENGINEERING / SURVEYING
Native Plains Surveying and Mapping / RK & Associates PLC 5807 S. Garnett Rd. Suite K Tulsa, OK 74146 918-234-7596 LOW VOLTAGE / THEME LIGHTING 60 Lakefront Boulevard Suite 320 Buffalo, NY 14202 716-845-5092 (E) MAIN SERVICE SWITCHBOARD 'MSHA' 9

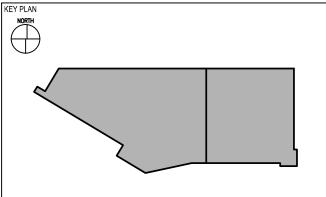
480/277V, 3φ, 4W - 1600A

BRACED AT 65 KAIC 225/3 EXTERIOR FACADE DISTRIBUTION PANELBOARD 'HRCER1' 208/120V, 3φ, 4W - 500A BRACED AT 42 KAIC, NEMA 3R 500/3 150/3 SPACE PANEL 'HRCERB3' PANEL 'HRCERB2' PANEL 'HRCERB1' PARTIAL SINGLE LINE DIAGRAM CONSTRUCTION SET PARTIAL SINGLE LINE DIAGRAM
E-002 NTS

--- & ASSOCIATES---

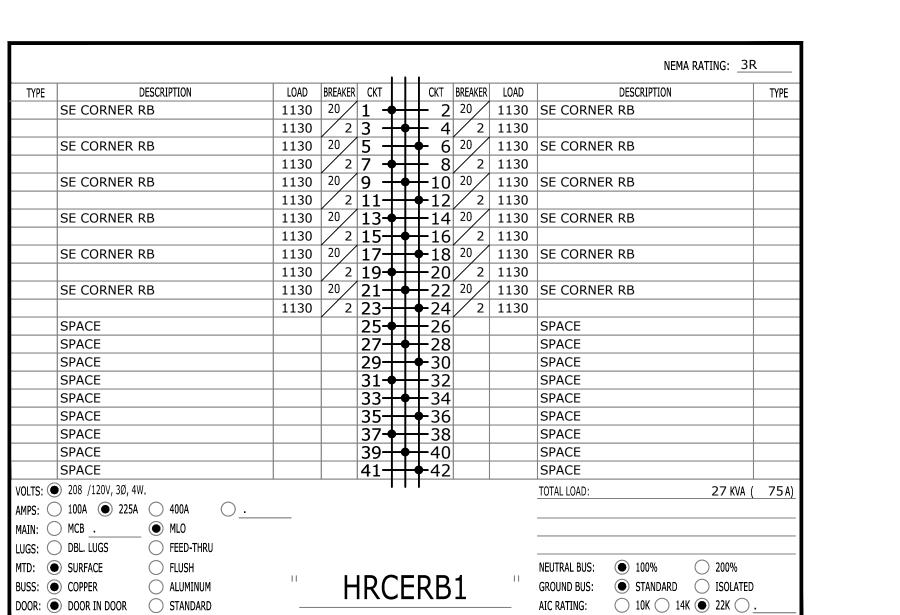
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RENOVATION



## SHEET NOTES:

furnish and install new circuit breaker indicated with all required mounting hardware. New Breaker aic shall match existing.



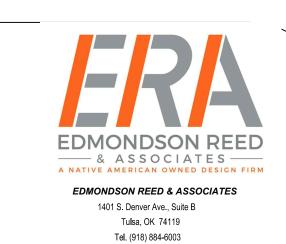
									NEMA RATING: <u>3</u>	R
TYPE	DESCRIPTION	LOAD	BREAKER	CKT	П	CKT	BREAKER	LOAD	DESCRIPTION	TYPE
	SW CORNER RB	1130	20/	1 →	<del>┡┤</del>	+ 2	20	1130	SW CORNER RB	
		1130	2	3 -	+	+ 4	. 2	1130		
	SW CORNER RB	1130	20/	5 -	Н	<del>+</del> 6	20	1130	SW CORNER RB	
		1130	/ 2	7 →	┡┼	+ 8	2	1130		
	SW CORNER RB	1130	20/	9 -	┥	+10	20	1130	SW CORNER RB	
		1130	/ 2	11-	Н	<del>+</del> 12	2	1130		
	SW CORNER RB	1130	20/	13⊀	┡┼	<del>+</del> 14	. 20/	1130	SW CORNER RB	
		1130	/ 2	15-	╁╪	+16	/ 2	1130		
	SW CORNER RB	1130	20/	17-	Н	<del>+</del> 18	20/	1130	SW CORNER RB	
		1130	/ 2	19∹	┡┼	+20		1130		
	SW CORNER RB	1130	20/	21-	╁┿	<del>+</del> 22	20/	1130	SW CORNER RB	
		1130	/ 2	23-	Н	<del>+</del> 24	. / 2	1130		
	SPACE			25⊀	lack	+26			SPACE	
	SPACE			27-	╁╪	+28			SPACE	
	SPACE			29-	Н	<del>+</del> 30			SPACE	
	SPACE			31⊀	┡┼	<del> </del> 32			SPACE	
	SPACE			33-	╁┿	<del>   </del> 34			SPACE	
	SPACE			35-	Н	<del>+</del> 36			SPACE	
	SPACE			37⊀	┡┼	+38			SPACE	
	SPACE			39-	╁╪	+40			SPACE	
	SPACE			41-	oxdot	<del>+</del> -42			SPACE	
OLTS: 🥑	208 /120V, 3Ø, 4W.				1 1	ı			TOTAL LOAD: 27 KVA	( 75
MPS: (	100A ● 225A ○ 400A ○									
MAIN: (	MCB .									
UGS: C	DBL. LUGS FEED-THRU									
ITD:	SURFACE FLUSH								NEUTRAL BUS:	
_	COPPER ALUMINUM	11	L	ID/	F	RB	)	11	GROUND BUS: STANDARD ISOLATE	D
_	DOOR IN DOOR STANDARD		ı	11//	J∟	.IND	_		AIC RATING: 10K 14K 22K	

										NEMA RATING:	3R
TYPE	DESCRIPTION	LOAD	BREAKER	СКТ	Ħ	СКТ	BREAK	(ER	LOAD	DESCRIPTION	ТҮР
	CENTER RB	1130	20/	1 -	┥┤	+ 2	20	/ 1	1130	CENTER RB	
		1130	2	3 -	1	+ 4		2 1	1130		
	CENTER RB	1130	20/	5 -	Н	+ 6	20	/ 1	1130	CENTER RB	
		1130	/ 2	7 -	┥┤	+ 8		2 1	1130		
	CENTER RB	1130	20/	9 -	╁	十10	20	/ 1	1130	CENTER RB	
		1130	/ 2	11-	Н	<del>+</del> 12		2 1	1130		
	CENTER RB	1130	20/	์ 13∹	┥┤	<del></del> 14		/ 1	1130	CENTER RB	
		1130	/ 2	15-	╁╪	+16		2 1	1130		
	CENTER RB	1130	20/	<b>17</b> -	Н	<del>+</del> 18		/ 1	1130	CENTER RB	
		1130	/ 2	19∹	┥┤	+20		2 1	1130		
	CENTER RB	1130	20/	21-	+	<del>+</del> 22	20	_	1130	CENTER RB	
		1130	/ 2	23-	H	<del>+</del> 24	<u> </u>	2 1	1130		
	SIGNAGE	1200	20/1	25-	┥┤	+26	5			SPACE	
	SIGNAGE	1200	20/1	27-	╁╪	<del> </del> 28	3			SPACE	
	SIGNAGE	1200	20/1	29-	$oldsymbol{oldsymbol{eta}}$	<del>+</del> 30				SPACE	
	SPACE			31-	┡┤	<del>- 3</del> 2				SPACE	
	SPACE			33-	╁┿	<del>  3</del> 4				SPACE	
	SPACE			35-	H	<del>+</del> 36				SPACE	
	SPACE			37∹	┡┤	<del> </del> 38	3			SPACE	
	SPACE			39-	╁╪	+40	)			SPACE	
	SPACE			41-	H	<del>+</del> 42	<u> </u>			SPACE	
OLTS: 🤇	208 /120V, 3Ø, 4W.				1 1	ı				TOTAL LOAD: 31 KV	A ( 85
MPS: (	→ 100A ● 225A → 400A · · ·										
1AIN: (	MCB .   MLO										
ugs: (	DBL. LUGS FEED-THRU										
	SURFACE FLUSH									NEUTRAL BUS:	
_	COPPER ALUMINUM	11	L	1D/	<b>~</b> F	ERE	3		11	GROUND BUS: STANDARD ISOLA	ΓFD
-	DOOR IN DOOR STANDARD		- 1	11//	JL	-L/L	J			AIC RATING: 10K 14K 22K (	

YPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE
	SPARE		20/1	1 -	•	- 2	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	3 -	1	- 4			EXISTING LOAD	
	EXISTING LOAD		20/1	5 -	#	- 6			SPARE	
	EXISTING LOAD		20/1	7 -	•	- 8			EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	700	20/1	9 -	+	-10	20/1		SPARE	
	BUILDING EXTERIOR LIGHTING	840	20/1	11-	$oldsymbol{+}$	-12	20/1		SPARE	
	BUILDING EXTERIOR LIGHTING	1320	20/1	13-	•	-14	20/1		SPARE	
	BUILDING EXTERIOR LIGHTING	990	20/1	15-	1	-16	20/1		SPARE	
	BUILDING EXTERIOR LIGHTING	800	20/1	17-	$oldsymbol{+}$	-18	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	1200	20/1	19-	•	-20	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	1200	20/1	21-	+	-22	20/1	1040	BUILDING EXTERIOR LIGHTING	
	SPARE		20/1	23-	$oldsymbol{H}$	-24	20/1		SPARE	
			30 /	25-	<del> </del>	-26	30 /			
	EXISTING LOAD			27-	1	-28			EXISTING LOAD	
			3	29-	$\Box$	-30	/ 3			
				31-	•	<del>-</del> 32				
				33-	+	<del>-</del> 34				
			_	35-		-36				
			4	37-	<b>♦</b>	-38				
				39-	┪	<del>-</del> 40				
				41-	+	-42				
TS: 🤇	208 /120V, 3Ø, 4W.				1 1	J			EXISTING LOAD: 12 KVA	33 A)
S: (	) 100A () 225A () 400A (•) 125 <i>A</i>	١							NEW LOAD: 8 KVA	22 A)
N: (									TOTAL LOAD: 20 KVA	56 A)
s: C	DBL, LUGS FEED-THRU									
: (	SURFACE FLUSH			EX	IST	ING			NEUTRAL BUS:	
	COPPER ALUMINUM	11		ı	_P	1		11	GROUND BUS: STANDARD ISOLATED	1
_	DOOR IN DOOR STANDARD			ı		Т .			AIC RATING:   10K 14K 22K	•

TYPE	DESCRIPTION	LOAD	BREAKER	CKT	П	CKT	BREAKER	LOAD	DESCRIPTION	TYPE
	EXISTING LOAD		20/1	1 -	$\blacklozenge$	- 2	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	3 -	1	- 4	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	5 -	+	- 6	20/1		EXISTING LOAD	
	SPARE		20/1	7 -	lack	8	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	9 -	+	-10	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	11-	₩	-12	20/1		EXISTING LOAD	
	SPARE		20/1	13-	lack	-14	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	15-	+	<del>-</del> 16	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	17-	H	-18	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	19-	<del>     </del>	-20	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	21-	+	-22	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	630	20/1	23-	+	-24	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	650	20/1	25-	<del>     </del>	-26	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	650	20/1	27-	+	-28	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	650	20/1	29-	$oldsymbol{+}$	-30	20/1		EXISTING LOAD	
	BUILDING EXTERIOR LIGHTING	650	20/1	31-	lack	<del>-</del> 32	20/1		SPARE	
	BUILDING EXTERIOR LIGHTING	1200	20/1	33-	+	<del>-</del> 34	20/1		SPARE	
	SPARE		20/1	35-	$oldsymbol{+}$	-36	20/1		SPARE	
	EXISTING LOAD		20/1	37-	$\blacklozenge$	<del>-</del> 38	20/1		SPARE	
	SPARE		20/	39-	+	<del>-</del> 40	20/1		SPARE	
			/ 2	41-	++	<b>-</b> 42	20/1		EXISTING LOAD	
VOLTS: 🤇	● 208 /120V, 3Ø, 4W.				1 1	I			EXISTING LOAD: 13 KVA (	36
AMPS: (	◯ 100A   ● 225A   ◯ 400A								NEW LOAD: 4 KVA (	12
MAIN: (	MCB .   MLO								TOTAL LOAD: 17 KVA (	48
LUGS:	DBL. LUGS FEED-THRU									
MTD:	SURFACE FLUSH			EX	IST	ING			NEUTRAL BUS:	
	COPPER ALUMINUM	11		ı	_P	7		11	GROUND BUS: STANDARD ISOLATED	
	DOOR IN DOOR     STANDARD			ı	_ [ ]	_			AIC RATING:   10K 14K 22K .	

TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE
	EXISTING LOAD		20/1	1 ◀	$\vdash$	- 2	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	3 -	•	- 4	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	5 -	lacksquare	- 6	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	7 ◀		- 8	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	9 -	•	-10	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	11-	lacksquare	-12	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	13-		-14	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	15-	lack	-16	20/1		SPARE	
	EXISTING LOAD		20/1	17-	$oldsymbol{+}$	<b>-</b> 18	20/1		SPARE	
	EXISTING LOAD		20/1	19 <b>-</b>	+	-20	20/1		SPARE	
	EXISTING LOAD		20/1	21-	<b>+</b>	-22	20/1		SPARE	
	EXISTING LOAD		20/1	23-	lacksquare	-24			EXISTING LOAD	
	EXISTING LOAD		20/1	25 <b>-</b>	$\pm$	-26	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	27-	+	-28	20/1		EXISTING LOAD	
	EXISTING LOAD		20/1	29-	┵	<b>-</b> 30		1000	BUILDING EXTERIOR LIGHTING	
	EXISTING LOAD		20/1	31 <b>-</b>		-32		400	BUILDING EXTERIOR LIGHTING	
	EXISTING LOAD		20/1	33-	<b>+</b>	-34		1440	BUILDING EXTERIOR LIGHTING	
	EXISTING LOAD		20/1	35-	┵		20/1	100	BUILDING EXTERIOR LIGHTING	
~~	EXISTING LOAD	<b>—</b>	20/1	37 <b>-</b>		-38	20/1	1500	BUILDING EXTERIOR LIGHTING	
	BUILDING EXTERIOR LIGHTING	1160	20/1	39-		<del>-</del> 40	20/1 (	1540	BUILDING EXTERIOR LIGHTING	
	BUILDING EXTERIOR LIGHTING	1020	20/1	41-	4	-42	20/1 (	1540	BUILDING EXTERIOR LIGHTING	
VOLTS:	208 /120V, 3Ø, 4W.					J			EXISTING LOAD: 22 KVA	( 61 A)
AMPS: (	● 100A ○ 225A ○ 400A ○ <u>.</u>								NEW LOAD: 10 KVA	( 27 A)
MAIN: (	→ MCB . ● MLO								TOTAL LOAD: 32 KVA	( 88 A)
LUGS: (	DBL. LUGS FEED-THRU			<b>-</b> \/T	<b>ст</b> і					
MTD:	SURFACE FLUSH			EXI	SI	ING			NEUTRAL BUS:	
	COPPER ALUMINUM	П		X	<b>1</b> L	3		П	GROUND BUS:   STANDARD   ISOLATE	ĒD
`	DOOR IN DOOR STANDARD			/\	<b>+</b>	.J			AIC RATING: 10K 14K 22K	



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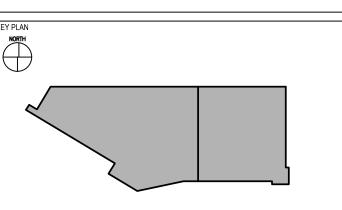
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**LOW VOLTAGE / THEME LIGHTING** 60 Lakefront Boulevard Suite 320 Buffalo, NY 14202

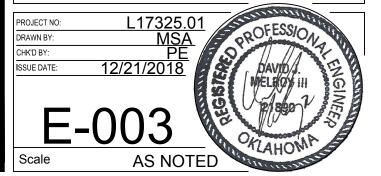
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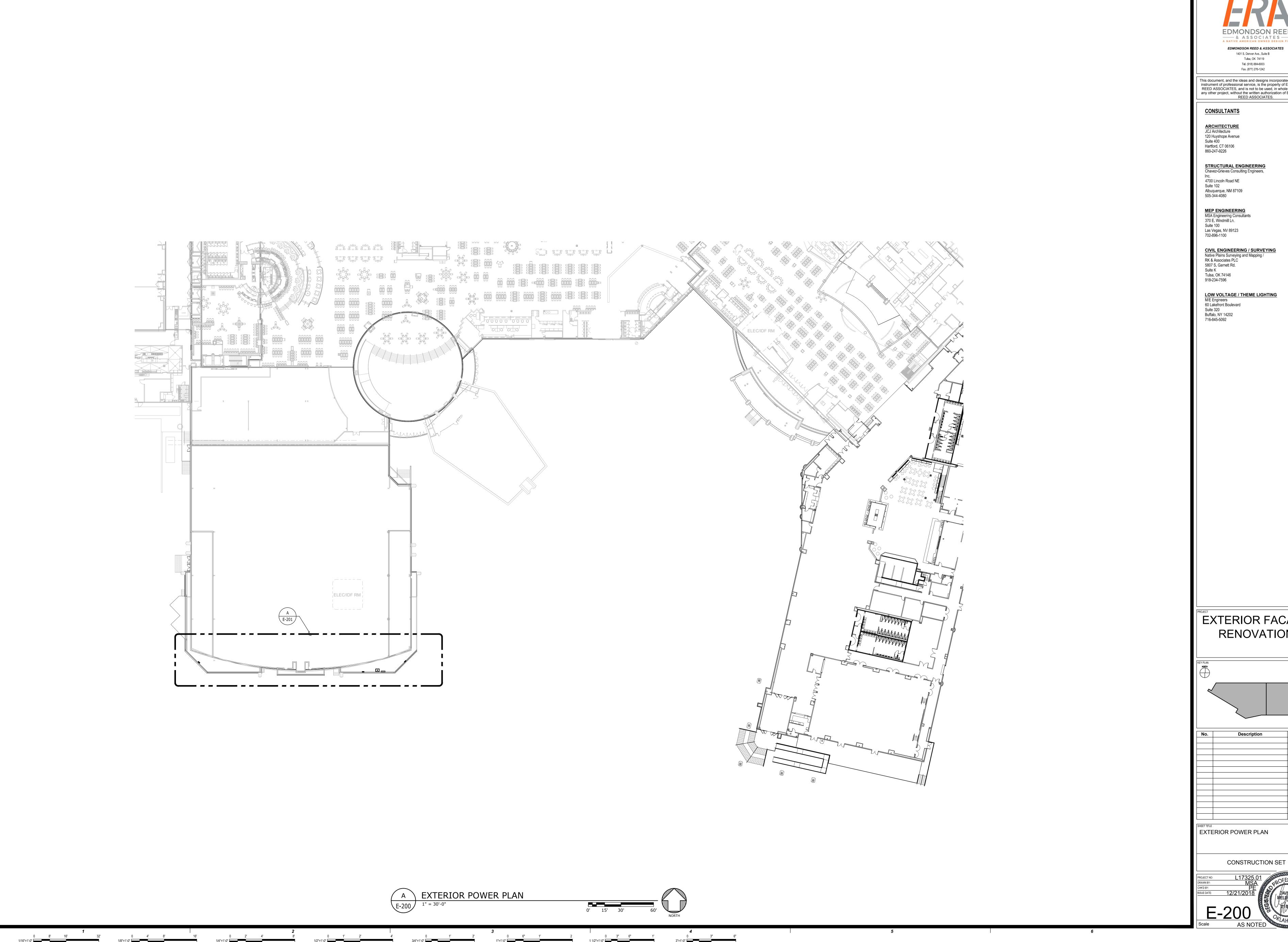
## EXTERIOR FACADE RENOVATION



No.	Description	Date					
	BULLETIN #1	04/24/2019					
EET TITLE							

| PANEL SCHEDULES



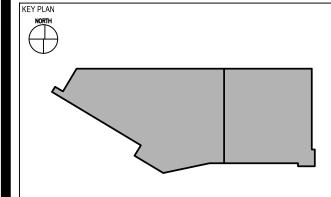


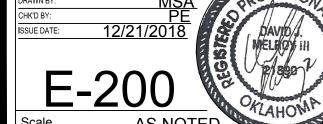


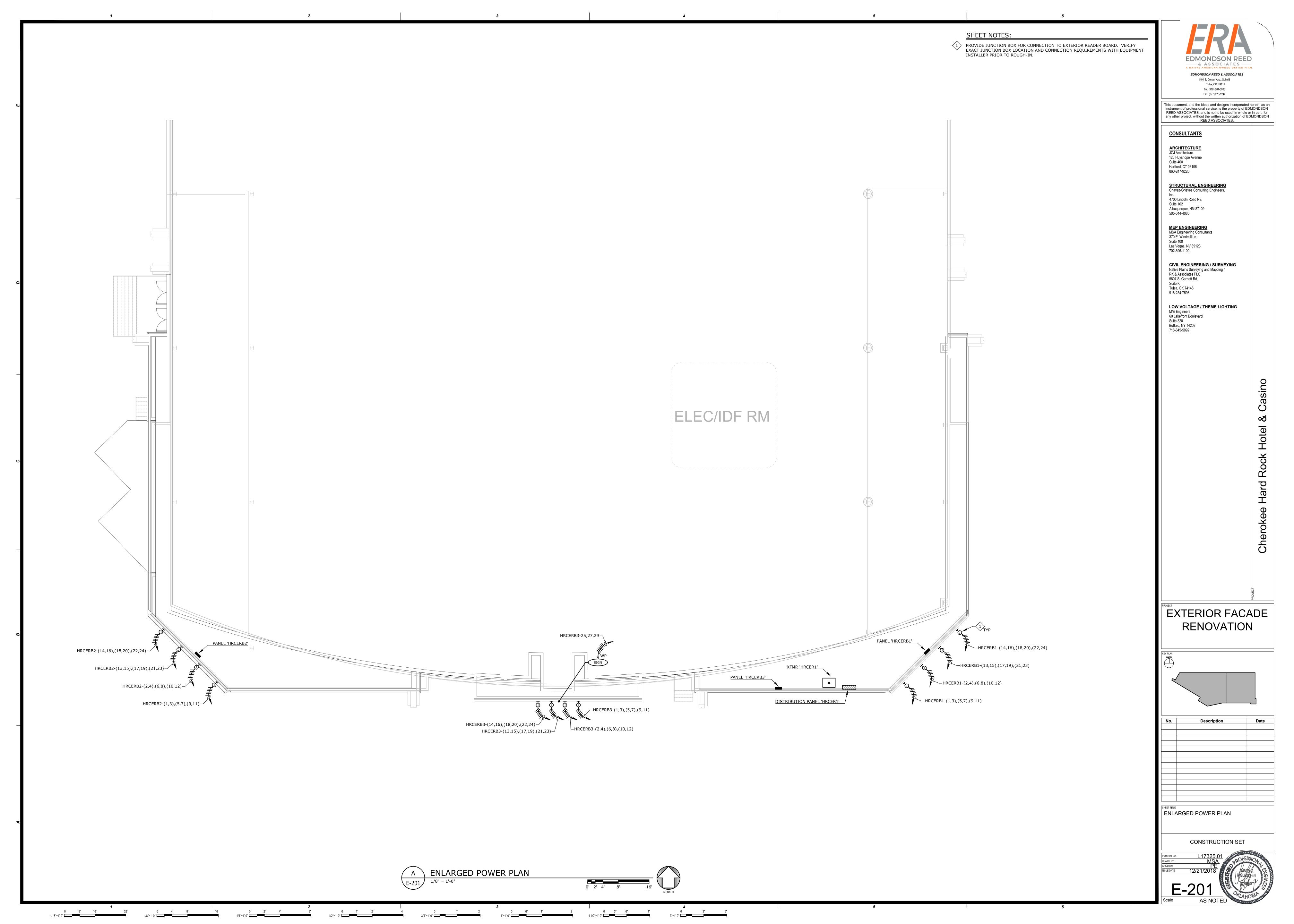
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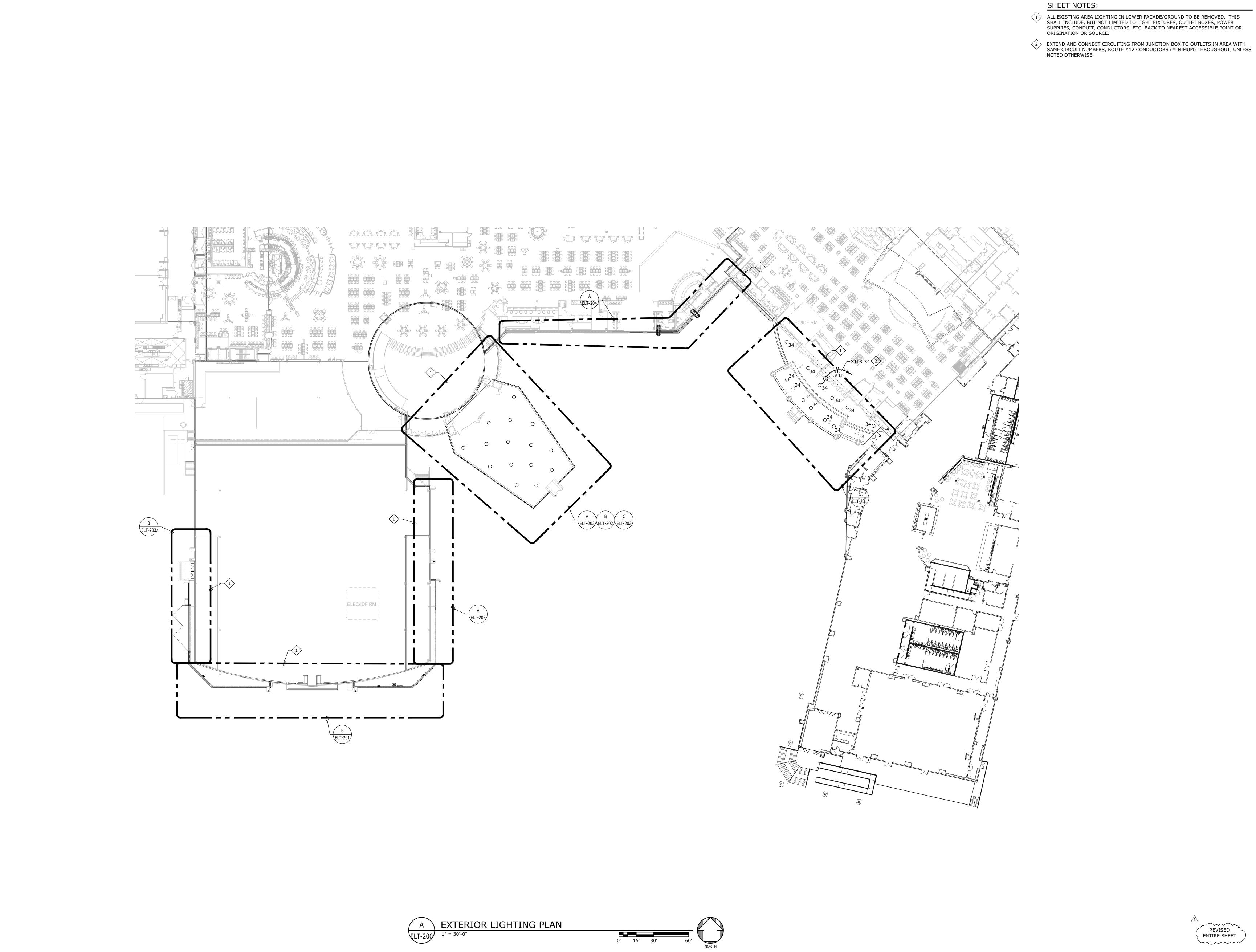
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EXTERIOR FACADE RENOVATION









**GENERAL NOTES:** 

1. REFER TO E DRAWINGS (M/E ENGINEERING) AND ARCHITECTURAL LIGHTING DRAWINGS FOR FIXTURE SPECIFICATIONS AND MOUNTING INSTRUCTIONS.

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& ASSOCIATES

A NATIVE AMERICAN OWNED DESIGN FIRM

EDMONDSON REED & ASSOCIATES

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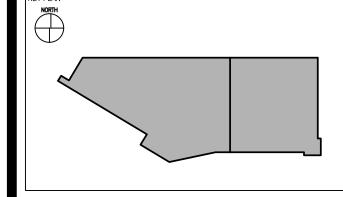
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PROJECT EXTERIOR FACADE

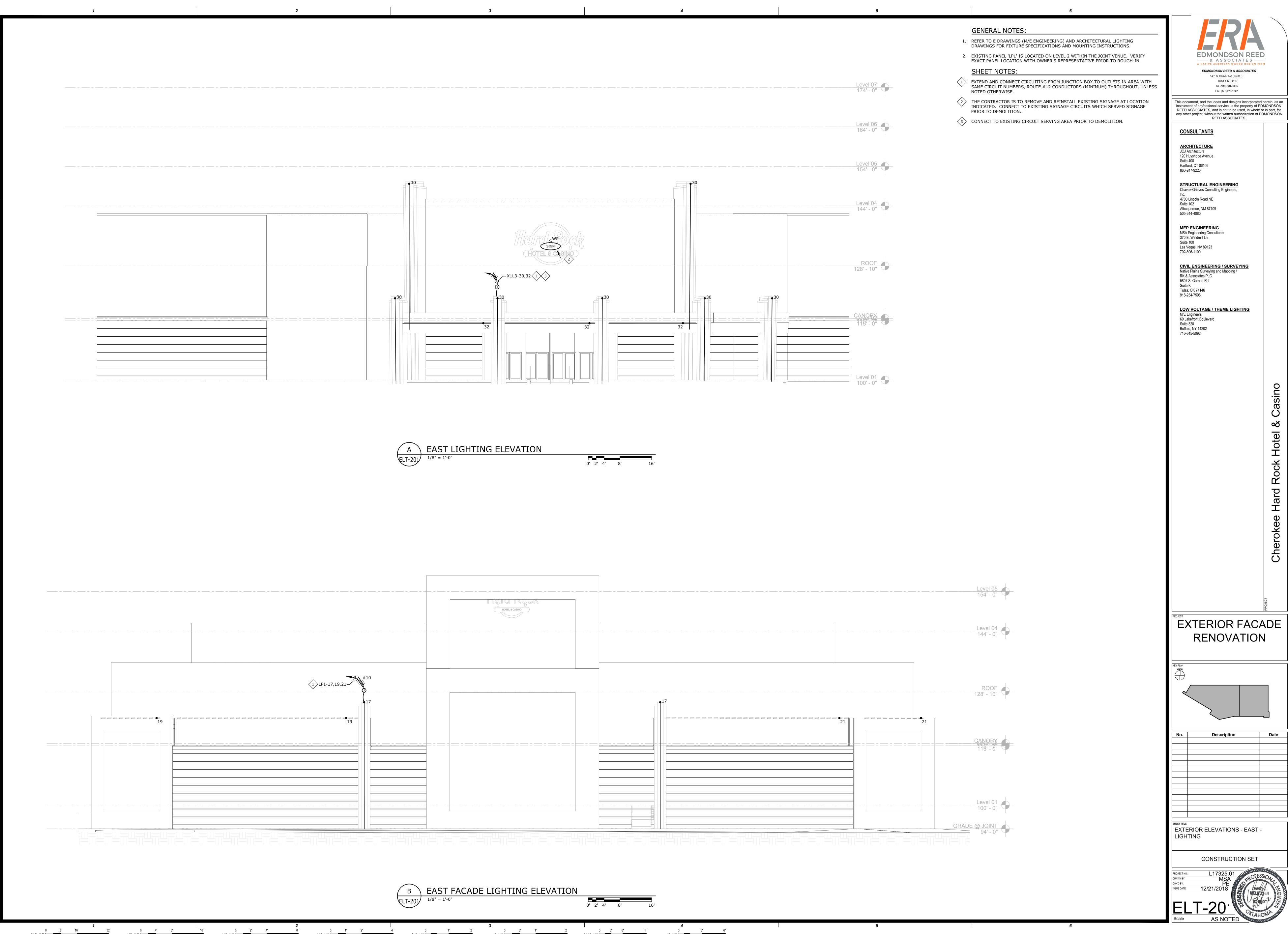
RENOVATION

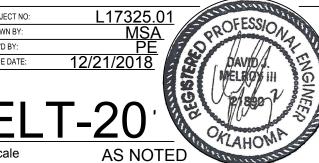


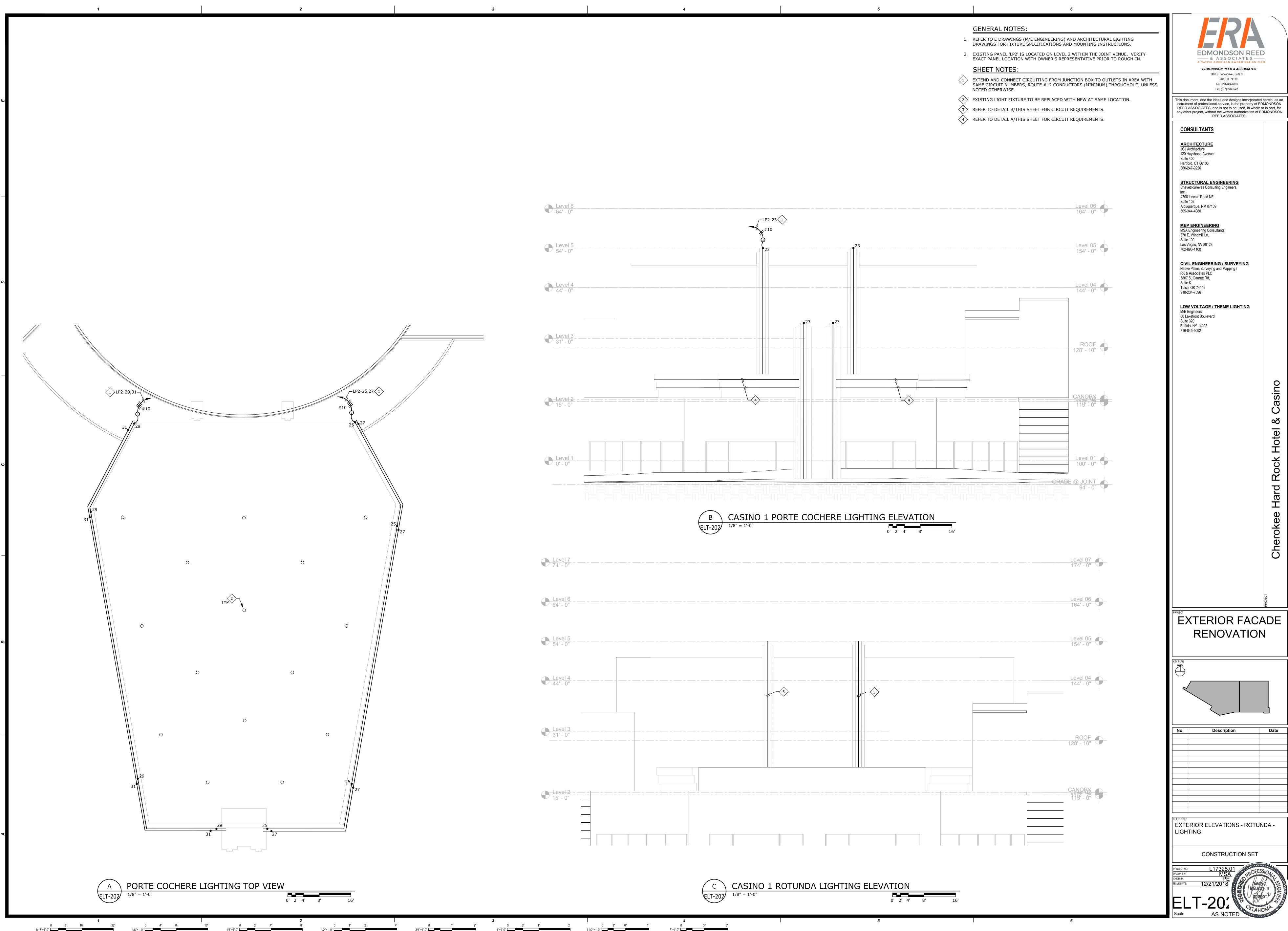
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BULLETIN #1	04/24/2019

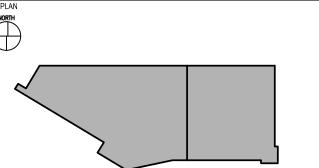
EXTERIOR LIGHTING PLAN

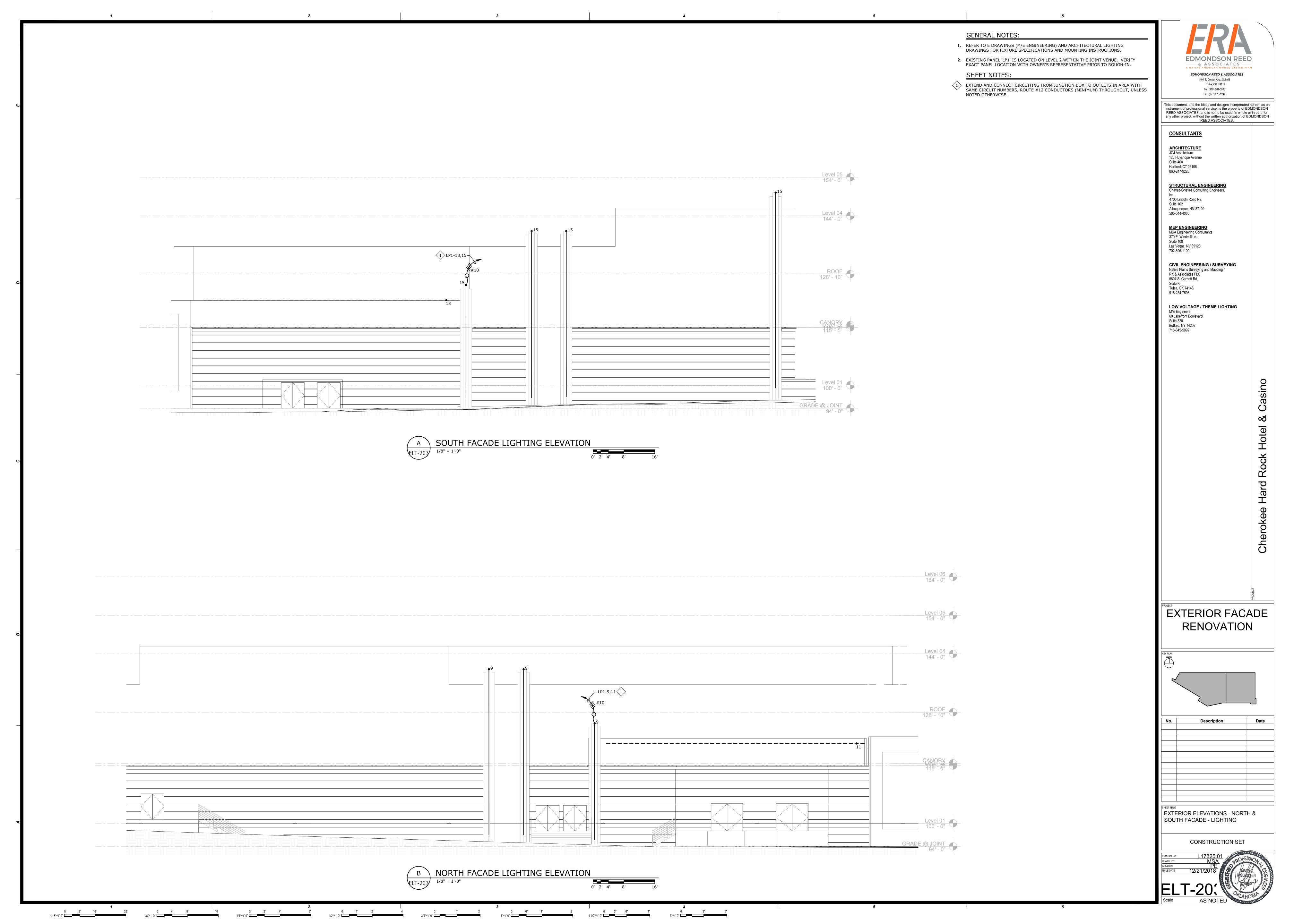


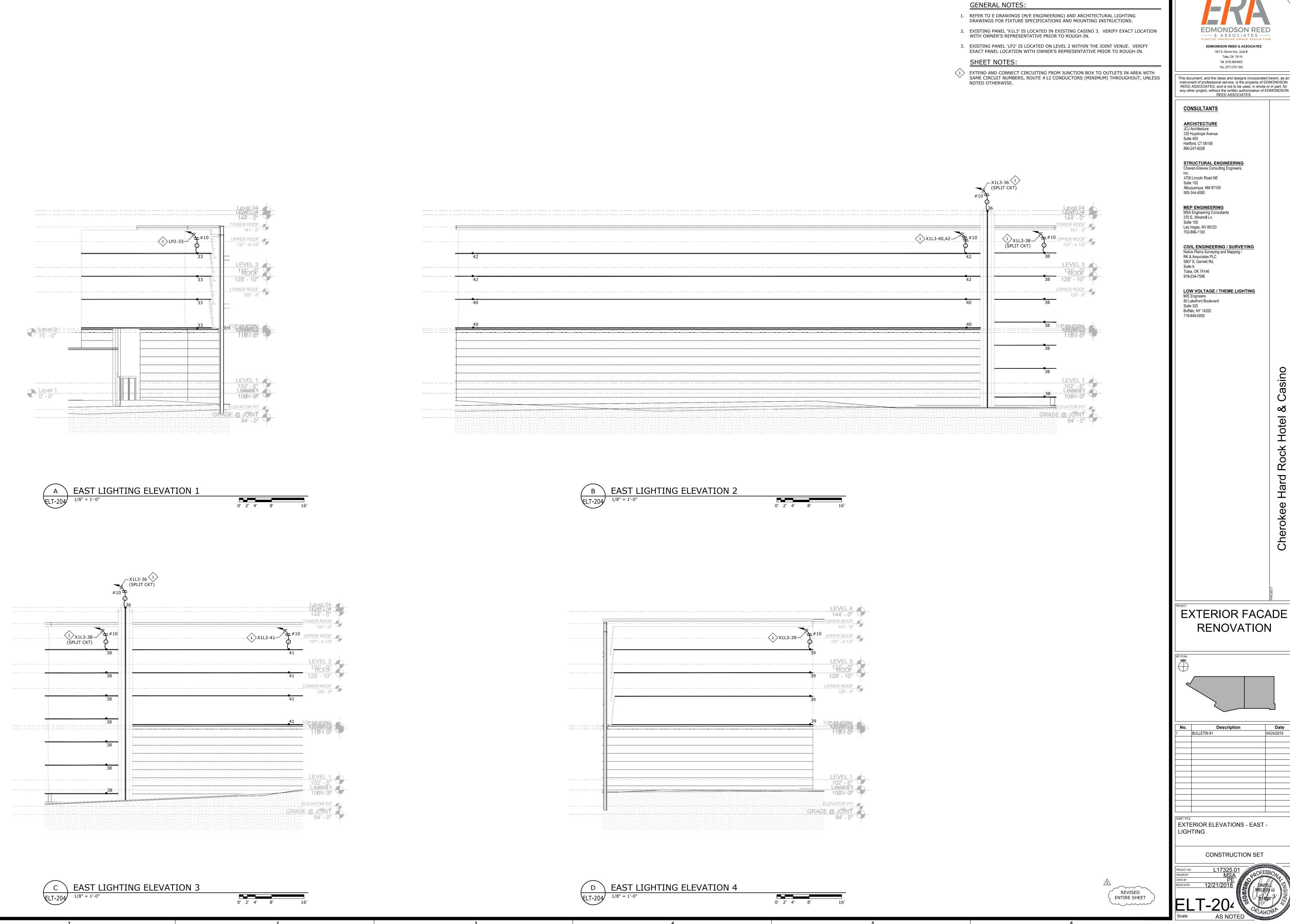












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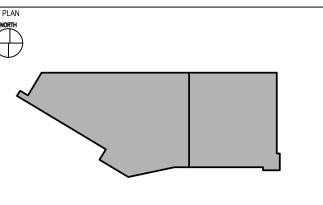
Las Vegas, NV 89123 CIVIL ENGINEERING / SURVEYING

Native Plains Surveying and Mapping / RK & Associates PLC 5807 S. Garnett Rd.

**LOW VOLTAGE / THEME LIGHTING** 60 Lakefront Boulevard

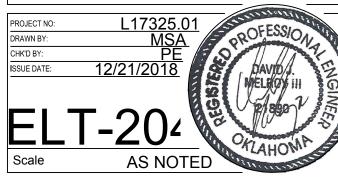
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EXTERIOR FACADE RENOVATION



No.	Description	Date
	BULLETIN #1	04/24/2019

EXTERIOR ELEVATIONS - EAST - LIGHTING



#### **GENERAL NOTES:**

- A. EXTERIOR FACADE LIGHTING SYSTEM IS AND EXTENSION OF THE CASIO 4 LIGHTING DESIGN. THE SYSTEMS SHALL ALL CONNECT BACK TO OWNERS EXISTING MADRIX USER INTERFACE. ESSENTIALLY DMX SIGNALS ARE TRANSMITED OVER THE OWNERS DATA NETWORK AND THIS PROJECT EXTENDS THE DMX CONTROL CABLES BY SPLITTER OUT TO THE FIXTURE LOCATIONS. CURRENTLY IN THE CASINO ALL COLOR CHANGE LIGHTING IS CONTROLLED BY MADRIX.
- B. CONTRACTOR SHALL MOUNT LOW VOLTAGE POWER SUPPLIES IN COORDINATION WITH ARCHITECTUAL ACCESS PANELS. IN GENERAL POWER SUPPLIES SHALL NOT BE LOCATED WHERE EXPOSED TO THE ELEMENTS REGARDLESS OF RATING.
- C. THE COLOR CHANGE PROGRAMMING OF THE SYSTEM SHALL BE COMPLETED BY A THIRD PARTY SYSTEM INTEGRATOR. THIS INDIVIUAL SHALL HELP ADDRESS ALL THE FIXTURES AND WORK WITH THE OWNER TO DEVELOP COLOR CHANGE PROGRAMMING SCHEMES VIA THE MADRIX USER INTERFACE. CONTRACTOR SHALL SCHEDULE A PROGRAMMING MEETING WITH OWNER/ENGINEER PRIOR TO ANY CONSTRUCTION TO DEVELOP THE NECESSARY ADDRESS REQUIREMENTS AND PROGRAMMING PARAMATERS.
- D. BELOW IS A GENERIC PROGRAMMING SPECIFICATION AND SHALL BE USED AS A GUIDE FOR BIDDING THE SYSTEM. THE HOURS ARE ESTIMATED BASED ON PAST PROJECT EXPERIENCE, EACH SYSTEM MANUFACTURER SHALL PROVIDE PROGRAMMING AND ADDRESSING HOURS FOR A COMPLETE INSTALLTION TO THE OWNERS SATISFACTION.

#### LIGHTING CONTROL SYSTEM

- A. SUPERVISION OF INSTALLATION AND FINAL TESTING
  - THE LIGHTING CONTROL SYSTEM MANUFACTURER SHALL INCLUDE IN HIS PRICING TO THE ELECTRICAL CONTRACTOR 40 HOURS TO PERFORM TESTING AND START-UP OF ALL SYSTEM COMPONENTS.
  - 2. THE LIGHTING CONTROL SYSTEM'S MANUFACTURER SHALL SUPPLY AT LEAST ONE (1) SERVICE TECHNICIAN AFTER ALL SYSTEMS HAVE BEEN TESTED AND IN FULL OPERATION AS DESCRIBED ABOVE TO ASSIST THE INSTALLING ELECTRICIAN TO DEMONSTRATE AND INSTRUCT THE OWNER'S REPRESENTATIVE ON THE OPERATION AND ANY UNIQUENESS OF THE LIGHTING CONTROL SYSTEM. MINIMUM TIME REQUIRED FOR OWNER INSTRUCTION OF THE SYSTEM IS THREE (3) EIGHT (8) HOUR SESSIONS. TIME OF DEMONSTRATION AND INSTRUCTION TO BE AT OWNER'S CONVENIENCE.
  - 3. THE PRESENCE OF THE CONTROL SYSTEM MANUFACTURER'S SERVICE TECHNICIANS TO ASSIST THE INSTALLING ELECTRICIAN IN ALL OF THE ABOVE IS A REQUIREMENT OF THIS PROJECT AND PROOF OF TIME EXPENDED SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE.
  - THE PROJECT BID SHALL INCLUDE TWO (2) TEN (10) HOUR DAYS OF LED ADDRESS PROGRAMMING.

### B. EFFECTS PROGRAMMING:

- 1. PROVIDE DYNAMIC TIME-BASED RGBW CONTROL PROGRAMMING FOR ALL NEW FIXTURES. INTEGRATE NEW FIXTURES INTO THE EXISTING CONTROL SYSTEM. MANUFACTURER'S REPRESENTATIVE UNDER DIRECTION OF OWNER AND LIGHTING DESIGNER SHALL PROVIDE ALL SYSTEM PROGRAMMING AND TIME SCHEDULE PROGRAMMING FOR THE COMPLETE YEAR. MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE A MINIMUM OF THIRTY (30) HOURS OF PROGRAMMING TIME ADDITIONAL TO START UP PROCEDURES TO DEVELOP OWNER DRIVEN SCENES AND SPECIAL EVENTS.
- 2. GENERAL DESCRIPTION OF PROGRAMMING:
  - a. ALL VERTICAL RUNS OF TYPE LP03 TO BE PROGRAMMED AS SINGLE-ZONE DYNAMIC COLOR CHANGE RUNS. REFER TO PLANS FOR ZONE GROUPING SCHEME. EXACT ZONING SCHEME MAY BE CHANGED PER OWNER'S REQUEST.
  - SINGLE-ZONE DYNAMIC COLOR CHANGE RUNS. REFER TO PLANS FOR ZONE GROUPING SCHEME. EXACT ZONING SCHEME MAY BE CHANGED PER OWNER'S REQUEST.
  - C. ALL TYPE LP04 TO BE FULL ON/FULL OFF EFFECT, NO DIMMING PROGRAMMING REQUIRED FOR TYPE LP04 FIXTURES.
  - FOR ALL SINGLE-ZONE COLOR CHANGE RUNS, PROVIDE PROGRAMMING FOR BASIC LIGHTING SCENES FOR SIXTEEN (16) STATIC RGB COLORS; RED, ORANGE, YELLOW, GREEN, BLUE, INDIGO, VIOLET, TURQUOISE, ETC.
  - e. FOR ALL SINGLE-ZONE COLOR CHANGE RUNS, PROVIDE PROGRAMMING FOR BASIC LIGHTING SCENES FOR EIGHT (8) HOLIDAY THEMES: NEW YEAR'S, VALENTINE'S DAY, ST. PATRICK'S DAY, EASTER, 4" OF JULY, HALLOWEEN, THANKSGIVING, CHRISTMAS.
  - f. FOR ALL ZONES, PROVIDE PROGRAMMING FOR EIGHT (8) SPECIAL EVENTS: OWNER EVENT 1-8.
  - g. OWNER MAY REQUEST ADDITIONAL SCENES OR PROGRAMMING OPTIONS FOR INTEGRATION INTO OTHER EXTERIOR FA\*ADE FEATURES. IN THIS CASE, PROGRAMMER IS TO COORDINATE REQUIREMENTS WITH OWNER AND PROVIDE OPTIONS FOR PROGRAMMING REQUEST.

### DOCUMENTATION

### A. AS-BUILTS

CONTRACTOR TO PROVIDE PRINT AND DIGITAL COPY OF AS-BUILT CONDITION AFTER COMPLETION OF PROJECT. AS-BUILTS SHALL BE COMPLETED IN CAD FORMAT.

#### **LIGHTING CONTROL DETAIL NOTES**

FIXTURES SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO PLANS FOR QUANTITY OF FIXTURES.
 DMX DATA ENABLER DEVICE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO MANUFACTURER INFORMATION FOR SPECIFIC REQUIREMENTS, CABLING, MOUNTING, PROGRAMMING ETC.
 PROVIDE AMX/DMX DATA CONVERTER FOR INTEGRATION INTO EXISTING CASINO MADRIX LIGHTING CONTROL SYSTEM. PATHWAY: ULTIMATE DMX CONVERTER 8680 OR APPROVED EQUAL.
 REFER TO ENGINEERING DRAWINGS FOR CIRCUITING.



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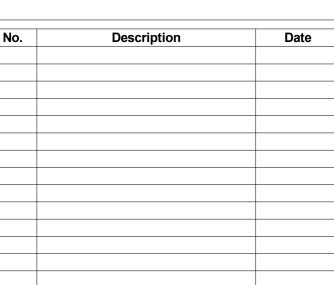
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# EXTERIOR RENOVATION

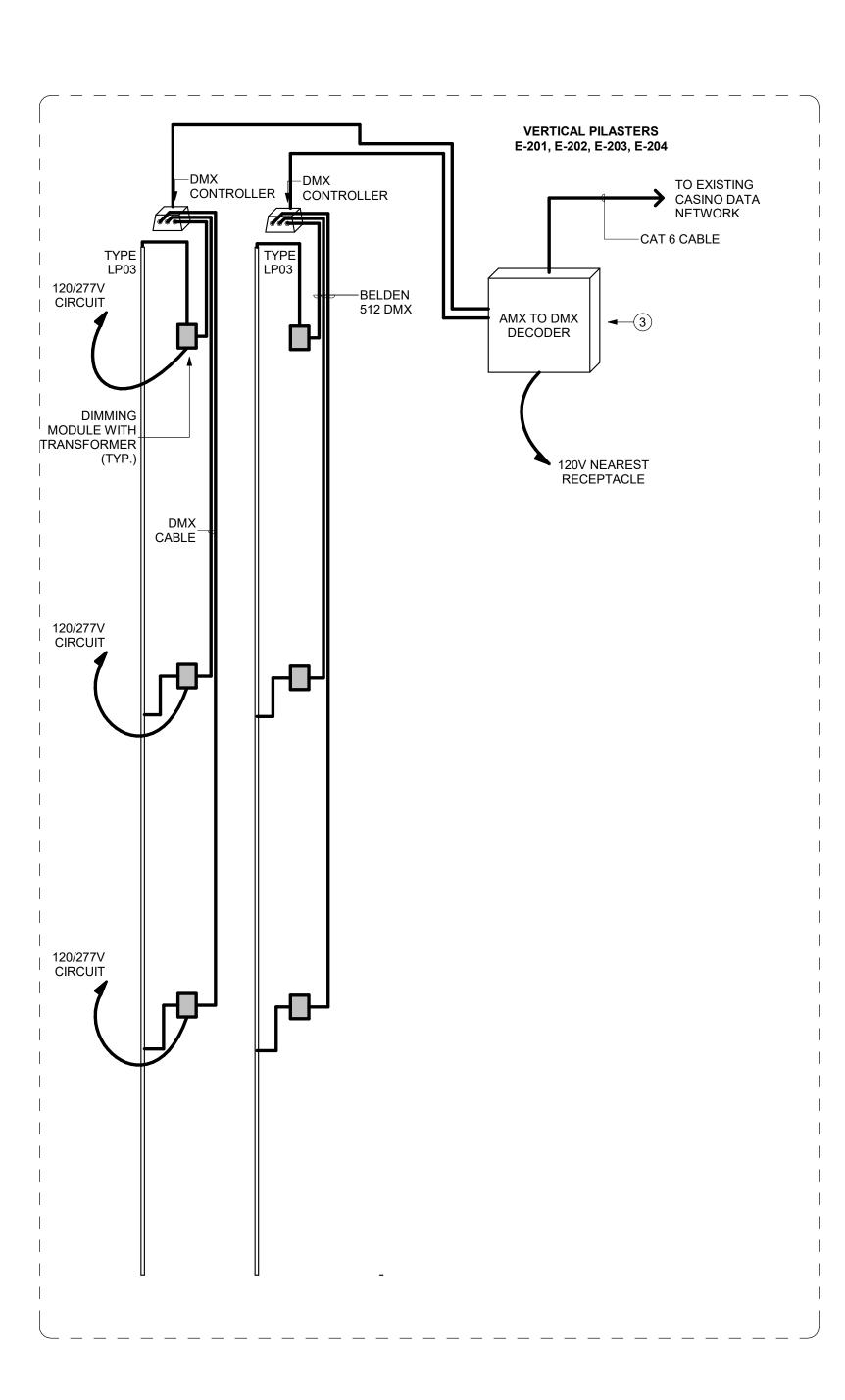


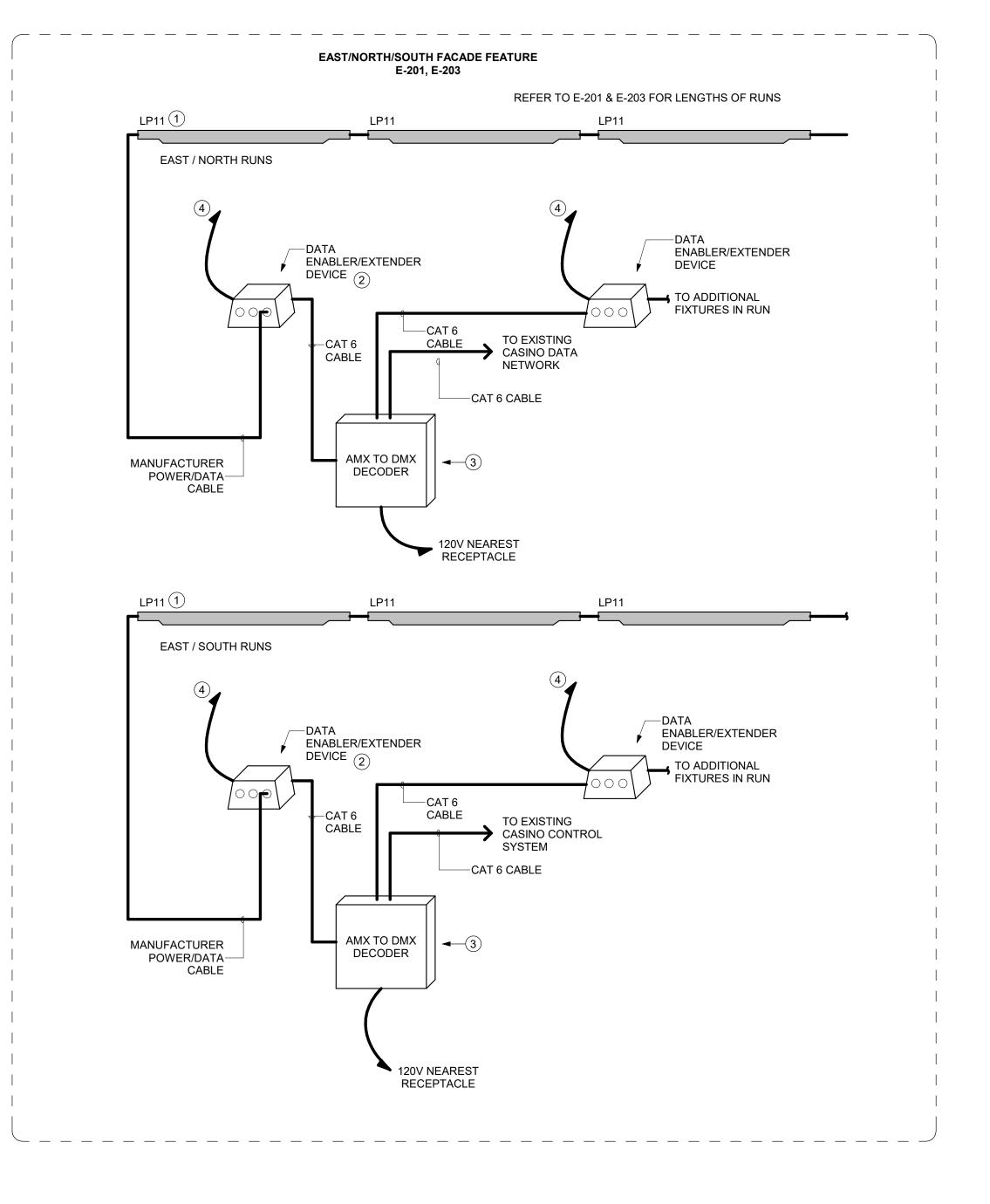
DETAILS & SPECIFICATIONS

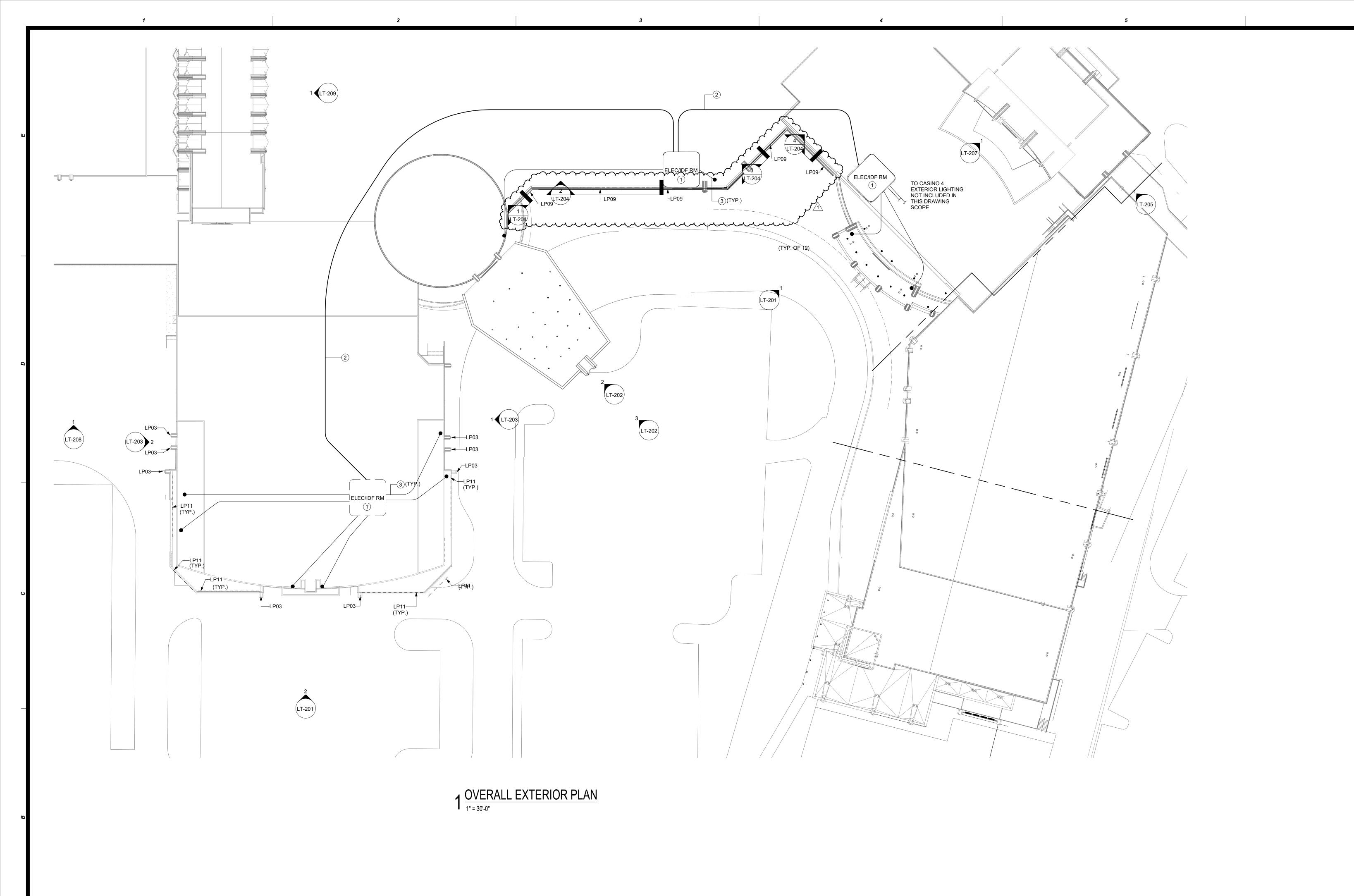
CONSTRUCTION SET

0: H17018 DSL BJR

LT-001





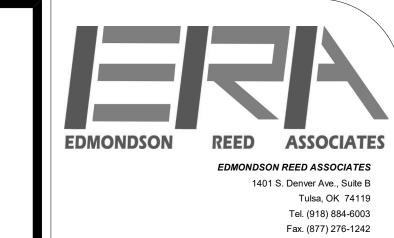


## **OVERALL EXTERIOR PLAN DRAWING NOTES**

- 1 ELEC/IDF ROOM SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. VERIFY EXACT LOCATION IN FIELD PRIOR TO BID.
- 2 PROVIDE RJ45 NETWORK CABLE TO INTERCONNECT ELEC/IDF ROOM CONTROL DEVICES. ROUTING SHOWN FOR DIAGRAMATIC PURPOSES ONLY, VERIFY LOCATIONS AND LENGTHS IN FIELD. APPROXIMATE LENGTH OF 1000 FT FOR BIDDING PURPOSES. 3 PROVIDE AMX CONTROL CABLE TO AMX/DMX CONVERTER LOCATIONS. ROUTING SHOWN

FOR DIAGRAMATIC PURPOSES ONLY, VERIFY LOCATIONS AND LENGTHS IN FIELD. APPROXIMATE LENGTH OF 500 FT FOR BIDDING PURPOSES.

				LU	MINARE SCHED	ULE					
Ī	TYPE	DESCRIPTION	MFGR. & CATALOG No.	LAMP	DRIVER VOLTAGE	UNIT WATTS	COLOR TEMP [K]	MOUNTING	DIMMING	LOCATION	REMARKS
	D02A	6" APERATURE HI LUMEN LED REMODEL EXTERIOR DOWNLIGHT. DAMP	PATHWAY: RMD6LBV 70-4K-XX-XW60-SCLPF OR APPROVED EQUAL.	90 CRI 7000 LUMEN LED	120/277V	75W	4000K	RECESSED	0-10V	PORTE COCHERE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
3	_07	4' INGRADE LINEAR FIXTURE WITH ASSYMETRIC WALL WASH DISTRIBUTION.	LUMENPULSE: LOI HO - 120/277 - 48-40K-WW-TS0-INTL-0-10V-ASL OR APPROVED EQUAL.	90CRI 2777 LUMEN	120/277V	60W	4000K	RECCESSED INGRADE	0-10V	DECORATIVE WALL	
	_P03	RGB LED FIXTURE. EXTRUSION WITH CLEAR LENS. IP68 RATED.	ACCLAIM: FLEX II EXTERIOR RGB FLEX2ERGB OR APPROVED EQUAL.	RGB LED ARRAY	12VDC	4.4W/FT	RGB	SURFACE	DMX	EXTERIOR FACADE	
	_P04	EXTERIOR RATED LINEAR DIRECT VIEW LED NEON FIXTURE. EXTRUSION WITH CLEAR LENS. IP68 RATED.	TIVOLI: FLEXLUM FXLM-32-S-D-24-8 OR APPROVED EQUAL.	30 LUMEN/FT LED ARRAY	24VDC	4W/FT	3200K	SURFACE	0-10V	EXTERIOR FACADE	
	_P09	PROGRAMMING TO 1' COLOR CHANGE.	GLLS: VIVID SILICON S 270 PIXEL RGB OR APPROVED EQUAL.	85 LUMEN / FT RGB LED ARRAY	12VDC	6W/FT	RGB	SURFACE	DMX	FACADE METAL SCREEN WALL	
	_P11	GRAZING FIXTURE. 15X30 BEAM ANGLE.	LUMENPULSE: LOGHO-120-48-RGBW-WW-UMAS-XX-DMX.RDM OR APPROVED EQUAL:	RGBW LED	120/277V	19W/FT	RGBW	SURFACE	DMX	EACADE	
4	P12 -P13	NOT USED.  LEBYDAMP LOCATION FLEXIBLE THE  SYSTEM.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						



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#### FOOD SERVICES Hesman Group, LLC 7645 E. 63rd St. Suite 201 Tulsa, OK 74133

918-935-5036

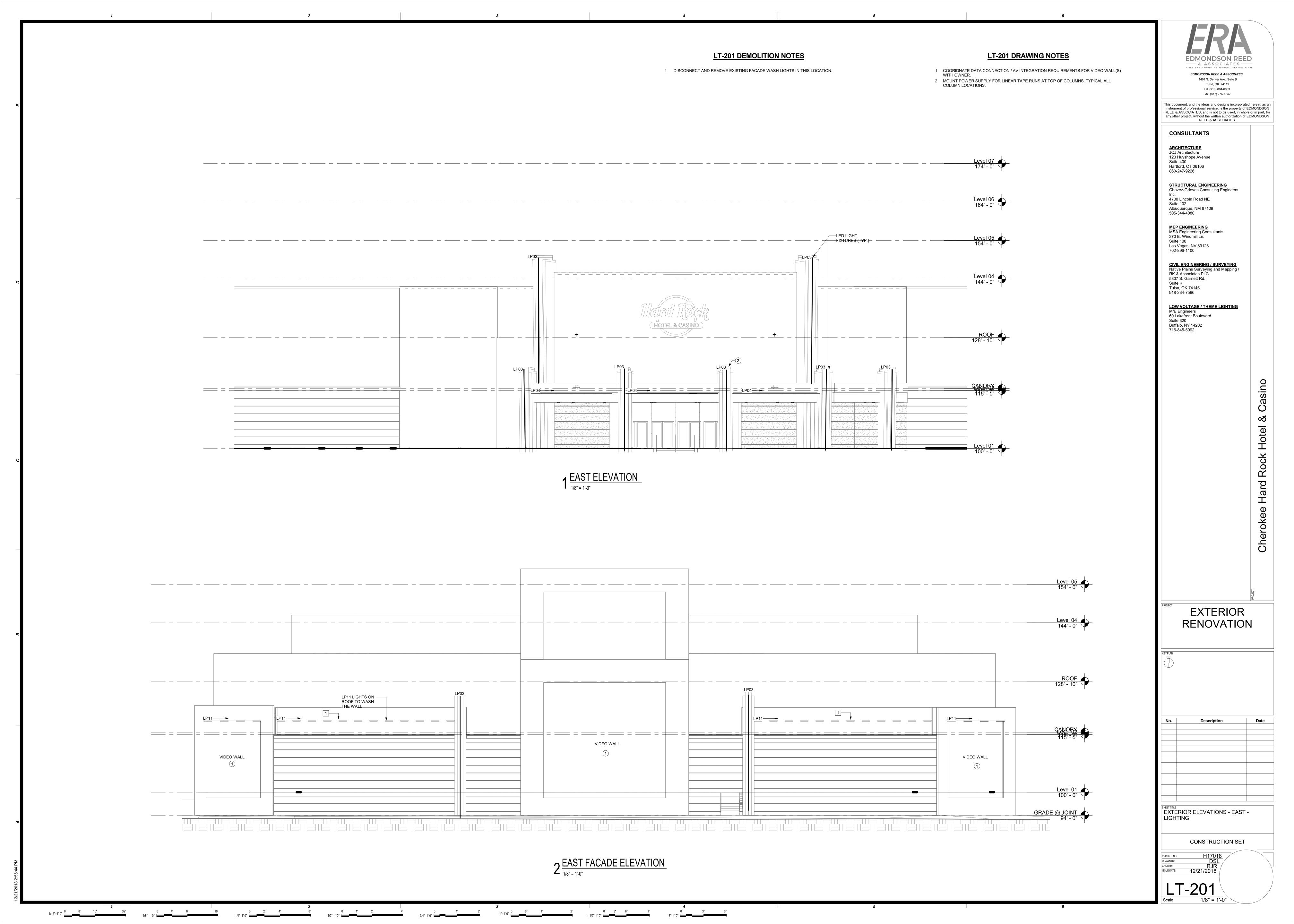
## CASINO EXTERIOR **ELEVATIONS**

No.	Description	Date							
	BULLETIN #1	04/24/2019							

SHEET TITLE EXTERIOR PLAN

CONSTRUCTION SET

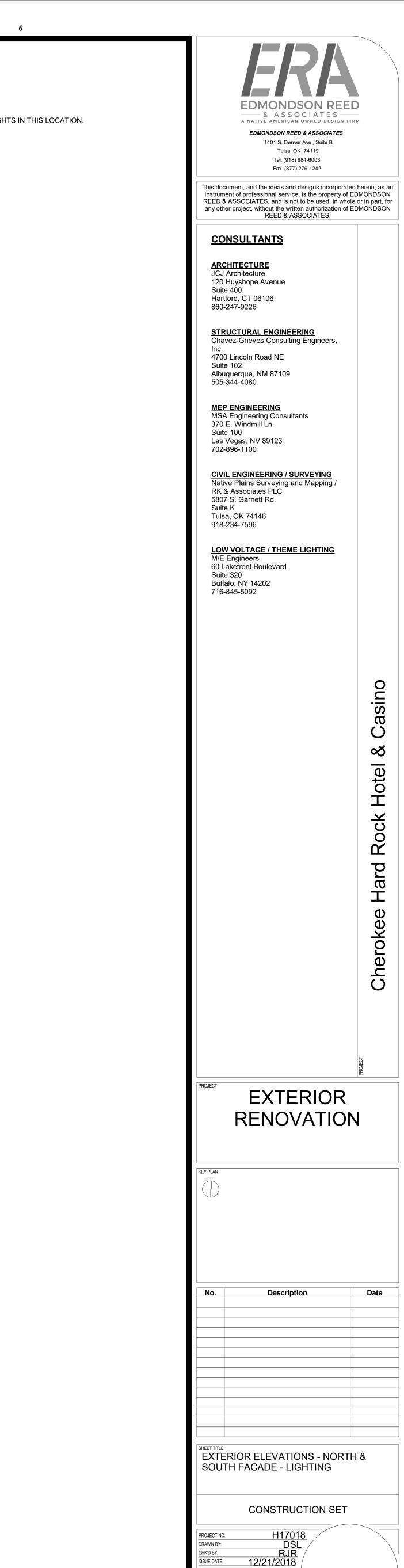
LT-200



**LT-202 DEMOLITION NOTES LT-202 DRAWING NOTES** A SSOCIATES ——
A NATIVE AMERICAN OWNED DESIGN FIRM 1 MOUNT POWER SUPPLY FOR LINEAR TAPE RUNS AT TOP OF COLUMNS. TYPICAL ALL COLUMN LOCATIONS. 1 DISCONNECT AND REMOVE ALL EXISTING DOWNLIGHTS IN THIS AREA. 2 DISCONNECT AND REMOVE EXISTING FLOOD LIGHTS IN THIS AREA. EDMONDSON REED & ASSOCIATES 1401 S. Denver Ave., Suite B Tulsa, OK 74119 Tel. (918) 884-6003 Fax. (877) 276-1242 This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of EDMONDSON REED & ASSOCIATES, and is not to be used, in whole or in part, for any other project, without the written authorization of EDMONDSON REED & ASSOCIATES. **CONSULTANTS** <u>ARCHITECTURE</u> 120 Huyshope Avenue Suite 400 Hartford, CT 06106 860-247-9226 STRUCTURAL ENGINEERING
Chavez-Grieves Consulting Engineers, <u>Level 6</u> 64' - 0" 4700 Lincoln Road NE Suite 102 Albuquerque, NM 87109 505-344-4080 MEP ENGINEERING
MSA Engineering Consultants 370 E. Windmill Ln. <u>Level 5</u> 54' - 0" Suite 100 Las Vegas, NV 89123 702-896-1100 CIVIL ENGINEERING / SURVEYING
Native Plains Surveying and Mapping / RK & Associates PLC <u>Level 4</u> 44' - 0" 5807 S. Garnett Rd. Suite K Tulsa, OK 74146 918-234-7596 LED LIGHT **FIXTURES** (TYP.)— LOW VOLTAGE / THEME LIGHTING
M/E Engineers
60 Lakefront Boulevard Suite 320 Buffalo, NY 14202 716-845-5092 **O** D02A **O** D02A 2 CASINO 1 PORTE COCHERE ELEVATION

1/8" = 1'-0" Level 06 164' - 0" **EXTERIOR** RENOVATION 1 PORTE COCHERE TOP VIEW

1/8" = 1'-0" EXTERIOR ELEVATIONS - ROTUNDA - LIGHTING  $3\frac{\text{CASINO 1 ROTUNDA ELEVATION}}{\frac{1}{8"} = 1'-0"}$ CONSTRUCTION SET



LT-203

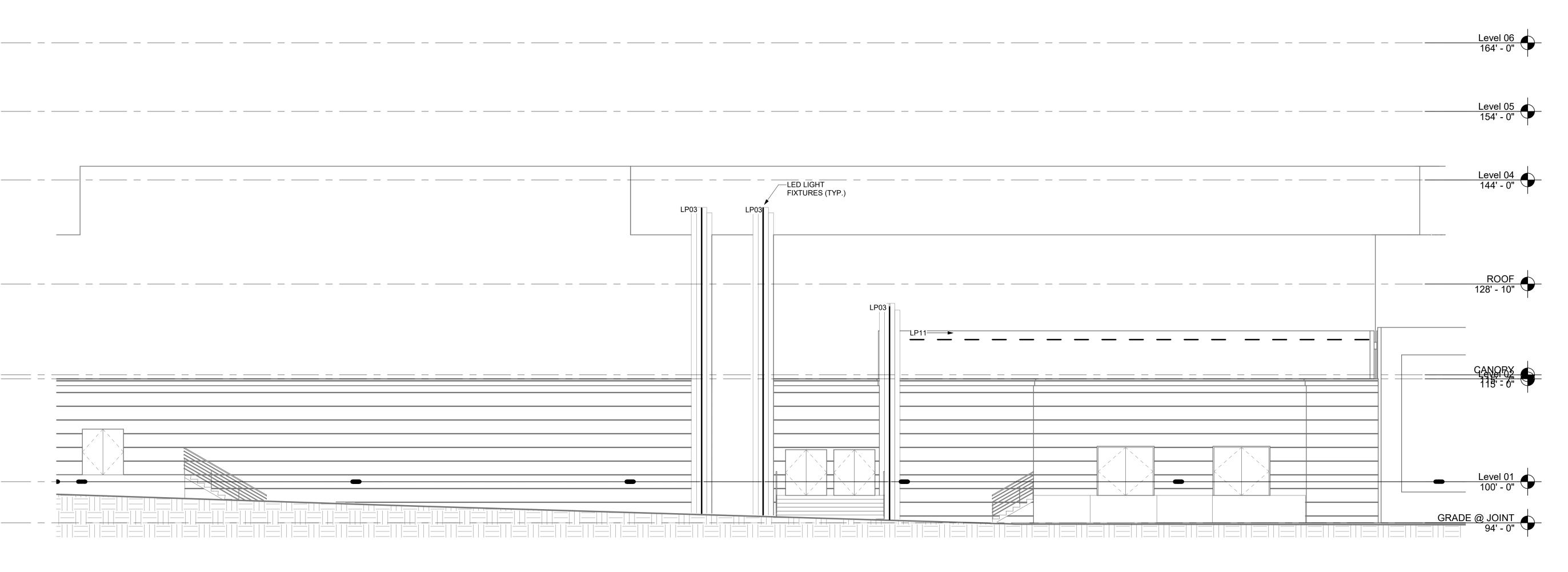
**LT-203 DEMOLITION NOTES** 

DISCONNECT AND REMOVE EXISTING FACADE WASH LIGHTS IN THIS LOCATION.

LED LIGHT FIXTURES (TYP.) LP03 LIGHTS ON ROOF TO WASH THE WALL-

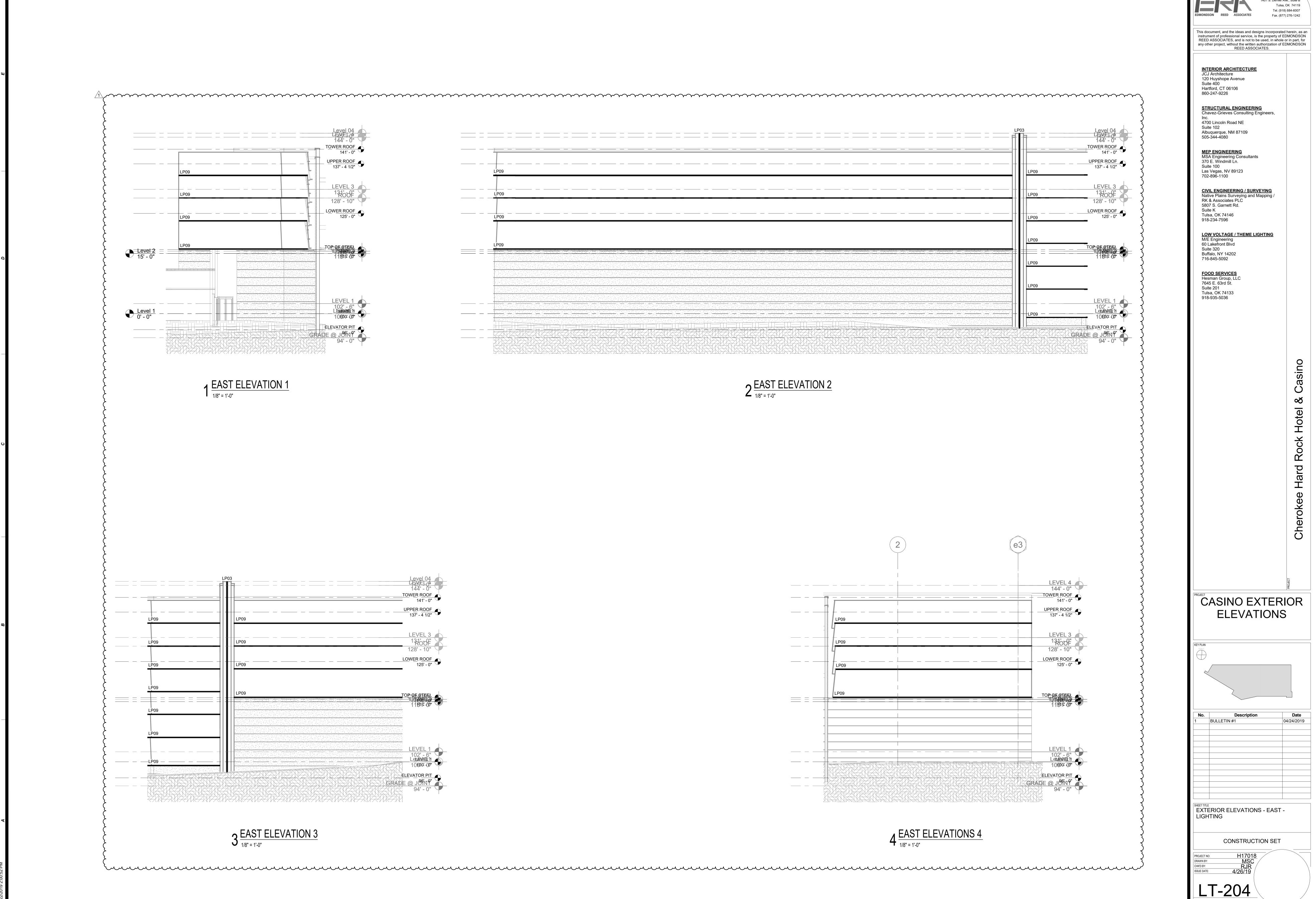
1 SOUTH FACADE ELEVATION

1/8" = 1'-0"



2 NORTH FACADE ELEVATION

1/8" = 1'-0"



**EDMONDSON REED ASSOCIATES** 

### PLUMBING SPECIFICATIONS

#### ART ONE - GENERAL

- THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR PLUMBING EQUIPMENT THEIR INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" SHALL MEAN ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS, WHICH SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR NOTED.
- 2. ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS ARE MADE PART OF THIS SPECIFICATION AND HAVE THE
- SAME FORCE AND AFFECT AS IF COMPLETELY REPRODUCED. 3. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE ALL FINAL CONNECTIONS AND LEAVE IN AN APPROVED COMPLETE OPERATING CONDITION.
- 4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE APPLICABLE INTERNATIONAL BUILDING CODE (IBC), UNIFORM MECHANICAL CODE (UMC), UNIFORM PLUMBING CODE (UPC), NATIONAL ELECTRIC CODES (NEC) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES AND OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
- 6. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO, THE CONTRACT DOCUMENTS, SHOP DRAWINGS, ETC. FOR ALL GENERAL CONSTRUCTION, STRUCTURAL, MECHANICAL, ELECTRICAL AND SPECIALTY CONTRACTOR WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS PLANNED, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.
- 7. DRAWINGS ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE, AND INDICATE THE TYPE, SIZE, ARRANGEMENT AND LOCATION OF MATERIALS AND EQUIPMENT. WORK INCLUDES CERTAIN COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES THAT MAY NOT BE SHOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL OUT FOR FINISHED WORK, TESTED AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND DUCTWORK, ETC. INDICATED ON DRAWINGS SHALL BE ROUTED PLUMB AND AT RIGHT ANGLES TO BUILDING CONSTRUCTION AND MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS AND REQUIRE ON SITE PART THREE - EXECUTION
- REVISIONS DURING CONSTRUCTION. (SEE ALSO "BIDDING"). 8. ALL WORK REQUIRED FOR IDENTICAL ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED, ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL.
- 9. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN TO THE ENGINEER. THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING FEES NECESSARY TO CHANGE PERMIT DOCUMENTS BASED ON ALTERNATE
- SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS. 10. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR CONSIDERATION PRIOR TO BIDDING. THE OWNER'S REPRESENTATIVE SHALL PREAPPROVE ANY PROPOSED SUBSTITUTION IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT OR MATERIALS WITH OTHER BUILDING TRADES, INCLUDING ALL ELECTRICAL, STRUCTURAL, OR ARCHITECTURAL ELEMENTS. THE CONTRACTOR SHALL IDENTIFY AND ANNOTATE ALL REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO IDENTIFY ALL COST DEBITS
- OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE. 11.UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH FIVE (5) COMPLETE SETS OF AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED.
- 12.ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. REFRIGERATION COMPRESSORS SHALL BE GUARANTEED FOR A MINIMUM OF FIVE (5) YEARS FROM DATE OF OWNER'S ACCEPTANCE. IN ADDITION, THE CONTRACTOR SHALL GUARANTEE THAT THE INSTALLATION WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTOR'S INSTRUCTIONS WILL DEVELOP CAPACITY AND CHARACTERISTICS AS SPECIFIED AND WILL FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS. SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO, THE CONTRACTOR WILL, WITHOUT DELAY OR WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CORRECT THE
- DEFICIENCY AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. 13. CONTRACTOR SHALL CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATIONS OR PROBLEMS SHALL BE TRANSMITTED TO THE ENGINEER
- 14. PROVIDE BASE AND COUNTER FLASHING FOR ITEMS PENETRATING THE ROOF OR EXTERIOR
- 15. STARTERS AND CONTROLS FOR MOTORS, ETC. TO BE FURNISHED BY MECHANICAL CONTRACTOR ELECTRICAL CONTRACTOR TO INSTALL THE AFOREMENTIONED ITEMS, AND FURNISH ALL POWER WIRING. ALL CONTROL AND INTERLOCKING WIRING SHALL BE FURNISHED AND INSTALLED BY
- 16. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE.

MECHANICAL CONTRACTOR.

17. MAINTAIN OCCUPANCY AND FIRE WALL SEPARATION INTEGRITY AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF ALL OCCUPANCY/FIREWALL SEPARATIONS AND SPECIFIC DETAILS FOR CONSTRUCTION. PROVIDE ALL NECESSARY FIRE AND SMOKE FIRE DAMPERS, ACCESS DOORS, CAULKING, ETC. FOR APPROVED INSTALLATION.

- 1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL COMPARE THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL IDENTIFY AND NOTATE ALL WORK OR CONDITIONS THAT ARE DIFFERENT FROM THE CONTRACT DOCUMENTS OR THEIR INTENT. THE CONTRACTOR SHALL, UPON DISCOVERY, IMMEDIATELY NOTIFY AND REPORT, IN WRITING, ANY DISCREPANCIES TO THE ENGINEER. NO EXTRAS OR CHANGE ORDERS WILL BE ALLOWED FOR FAILURE TO PERFORM THE PRE-BID SITE VISIT.
- 2. BASE PROPOSAL ON MANUFACTURER NAMES LISTED UNLESS "OR EQUAL" IS INDICATED. PROVIDE SUBSTITUTION REQUESTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING TO ALLOW TIME FOR DUE CONSIDERATION OF PROPOSED ALTERNATE. DETERMINATION OF SUBSTITUTION OF EQUALITY RESTS SOLELY WITH THE ENGINEER.

#### PART TWO - PRODUCTS

1. PROVIDE PLUMBING EQUIPMENT AS SPECIFIED AND/OR SCHEDULED HEREIN AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. EQUIPMENT SHALL OPERATE ACCORDING TO THE MANUFACTURER'S "OWNER'S OPERATING AND MAINTENANCE MANUAL" TROUBLE FREE AND CONFORMING TO THE ONE-YEAR WARRANTEE.

#### PLUMBING PRODUCTS

1. PIPE INSULATION: ALL ROOF DRAIN PIPING ABOVE GROUND SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET AND MAXIMUM K VALUE OF 0.27 AT 75^F. WHERE CLEARANCE LIMITATIONS PREVENT THE USE OF FIBERGLASS INSULATION, A MINIMUM 3/4" THICK CLOSED CELL NEOPRENE PIPE INSULATION MAY BE USED 2. PIPE HANGERS: PIPE SIZES 1/2" TO 1 1/2": MALLEABLE IRON, CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING. PIPE SIZES 2" TO 4": CARBON STEEL, ADJUSTABLE, CLEVIS. PIPE SIZES 6" AND OVER: ADJUSTABLE STEEL YOKE, CAST IRON ROLL, DOUBLE HANGER. 3. RAIN WATER DRAIN PIPING SHALL BE CAST IRON, UNLESS OTHERWISE APPROVED.

- 1. DIELECTRIC FITTINGS SHALL BE USED WHEREVER DISSIMILAR METALS ARE JOINED. 2. ALL UNDERGROUND WATER PIPING SHALL BE WRAPPED WITH TAPE, ENCASED WITH A FOAM, COATED WITH A PROTECTIVE COATING, OR ROUTED THROUGH CONDUIT FOR PASSIVE CATHODIC PROTECTION. NO PIN HOLE LEAKS IN PROTECTIVE COATING OR TAPE ARE
- 3. PROVIDE ACCESS PANELS IN CEILING TO ACCESS VALVES WHERE REQUIRED. 4. PLUMBING FIXTURES: PROVIDE CHROME PLATED ANGLE STOPS WITH ESCUTCHEON PLATES AT PLUMBING FIXTURES. ALL PLUMBING FIXTURES SHALL COMPLY WITH LOCAL REGULATIONS
- AND ADOPTED WATER CONSERVATION CODES. 5. DISINFECT ALL POTABLE WATER SYSTEMS IN ACCORDANCE WITH PLUMBING CODE AND/OR, AWWA STANDARD. PROVIDE WRITTEN CONFIRMATION TO OWNERS REPRESENTATIVE THAT

THIS WORK HAS BEEN COMPLETED.

ALLOWED.

- 1. THE CONTRACTOR SHALL PROVIDE ALL SLEEVES, OPENINGS, CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES REQUIRED AND PAID BY THE CONTRACTOR REQUIRING THE WORK COMPLETED.
- 2. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HANDLING OF MATERIALS AND EQUIPMENT, AND THE NECESSARY PROTECTION FOR MATERIALS AND EQUIPMENT.
- 3. THE CONTRACTOR WILL PROTECT THE WORK AND MATERIAL AGAINST DIRT, THEFT, INJURY OR DAMAGE UNTIL ACCEPTED BY OWNER. ALL WORK SHALL BE TURNED OVER TO OWNER CLEAN AND IN NEW CONDITION.
- 4. EACH CONTRACTOR SHALL PROVIDE ALL FOUNDATIONS, HANGERS, AND SUPPORTS FOR ALL EQUIPMENT SUPPLIED AND/OR INSTALLED UNDER THEIR WORK. ANY EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH VIBRATION ISOLATION AND FLEXIBLE CONNECTIONS TO PIPING IF APPLICABLE.
- 5. WHERE PIPES OR CONDUITS PASS THROUGH WALLS, FLOORS, OR CEILINGS IN FINISHED AREAS, THEY SHALL BE FURNISHED WITH ESCUTCHEON PLATES (COLOR PER ARCHITECT AND/OR INTERIOR DESIGNER).
- 6. AT THE CONCLUSION OF THE JOB, EACH PIECE OF EQUIPMENT, VALVE, SWITCH, STARTER, PANEL, PIPE LINE, CONDUIT, ETC., SHALL BE CLEARLY IDENTIFIED WHETHER EXPOSED OR CONCEALED, COVERED OR UNCOVERED, IN ACCORDANCE WITH OSHA AND ANSI REGULATIONS IDENTIFY PIPES NEAR EACH VALVE WITH "BRANDY-PERMA' CODE PIPE TAPE" OR T. & B. WESTLINE "TEL-A-PIPE" INDICATING DIRECTION OF FLOW, SERVICE, ZONE, AND SIZE. TAPE SHALL BE APPLIED TO PIPE, CONDUIT, OR COVERING. VALVES AND CONTROLS SHALL BE IDENTIFIED BY 2-INCH LACOUERED BRASS TAGS WITH STAMPED LETTERS FASTENED WITH "S' HOOKS OR CHAINS. EQUIPMENT IS TO BE IDENTIFIED AS TO FUNCTION AND PURPOSE BY MEANS OF PERMANENTLY ATTACHED LAMINATED ENGRAVED PHENOLIC NAMEPLATES WITH BEVELED EDGES, AND WHITE LETTERS ON BLACK BACKGROUND. (NO ADHESIVE LABELS ALLOWED).
- 7. AT THE CONCLUSION OF THE WORK, ALL EQUIPMENT AND SYSTEMS SHALL BE BALANCED, ADJUSTED, AND TESTED TO PROVIDE A QUIET-OPERATING, STABLE, AND SAFELY OPERATING SYSTEM(S). DEMONSTRATE OPERATION OF ALL SYSTEMS TO THE OWNER'S DESIGNATED REPRESENTATIVE. THE TEST AND BALANCE WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEBB OR AABC STANDARDS, BY INDEPENDENT, APPROVED, AND CERTIFIED TEST AND BALANCE PERSONNEL.
- 8. THE MECHANICAL/PLUMBING CONTRACTOR IS RESPONSIBLE FOR RETAINING AND PAYING FOR THE DESIGN SERVICES OF A STRUCTURAL ENGINEER TO CREATE THE DESIGN AND INSTALLATION DRAWINGS FOR MECHANICAL/PLUMBING SYSTEMS SEISMIC RESTRAINT SUPPORT, PER THE PROJECT BUILDING CODE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT MECHANICAL SYSTEMS SHOP DRAWINGS BASED UPON MULTI DISCIPLINE COORDINATION. INCLUDED WITH THE SHOP DRAWING SUBMISSION SHALL BE SEISMIC RESTRAINT DRAWINGS NOTING WHERE SEISMIC SUPPORT IS REQUIRED. FOR EACH AREA NOTED NEEDING SEISMIC SUPPORT FOR THE MECHANICAL SYSTEMS, THERE SHALL BE A SEISMIC DRAWING DETAILING THE REQUIRED SUPPORT. THE SEISMIC SUPPORT DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED STRUCTURAL ENGINEER IN THE SAME STATE AS THE PROJECT. IN ADDITION TO THE PROJECT DESIGN TEAM REVIEW, THE SEISMIC SUPPORT DRAWINGS WILL BE ISSUED TO THE LOCAL BUILDING DEPARTMENT FOR REVIEW AS PART OF A DEFERRED SUBMITTAL FOR THE BUILDING DOCUMENTS. COMMENCEMENT OF CONSTRUCTION PRIOR TO BUILDING DEPARTMENT
- REVIEW IS AT THE CONTRACTOR'S RISK. 9. PIPE HANGERS: PIPE SIZES 1/2" TO 1 1/2" - 6'-0" MAX SPACING, 3/8" ROD DIAMETER; PIPE SIZES 2" TO 3" - 10'-0" MAX SPACING, 1/2" ROD DIAMETER; PIPE SIZES 4 TO 6"-10'-0" MAX
- SPACING, 5/8" ROD DIAMETER. 10. WATER PROOFING AND FLASHING OF PIPE PENETRATIONS THROUGH EXTERIOR WALL AND ROOF SHALL BE BY THIS CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS AND METHODS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF ROOF
- 11.PROVIDE CLEAN OUTS IN ROOF DRAIN LINES AS SHOWN AND AS REQUIRED BY LOCAL CODE. ALL CLEANOUTS SHALL BE READILY ACCESSIBLE.

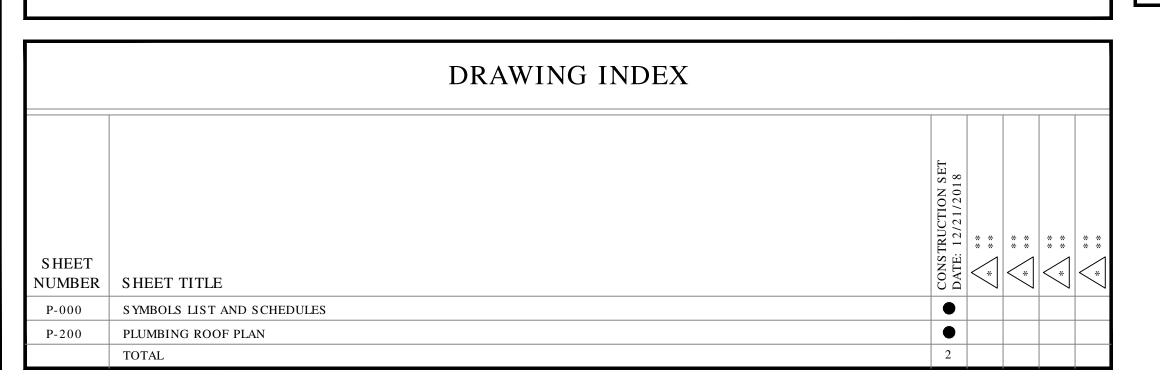
## PLUMBING SYMBOL LIST

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.							
—(X)—(X)—(X)—	ITEM TO BE REMOVED	——RD ——	ROOF DRAIN PIPING				
<b>↔</b> ♦	POINT OF CONNECTION/DISCONNECTION	AV	ACID VENT PIPING				
(#)	SHEET NOTE	——AW——	ABOVE GROUND ACID WASTE PIPING				
<b>*</b>	REVISION NUMBER	AW	UNDERGROUND ACID WASTE PIPING				
/TAG			VENT PIPING				
UNIT	EQUIPMENT MARK		ABOVE GROUND WASTE PIPING				
	ACCESS PANEL		UNDERGROUND WASTE PIPING				
41	CLEAN OUT	GW	ABOVE GROUND GREASE WASTE PIPING				
<b>Ч</b> 1 Ө1	WALL CLEAN OUT	GW	UNDERGROUND GREASE WASTE PIPING				
$\Theta$	FLOOR CLEAN OUT	GW	ABOVE GROUND GREASE WASTE PIPING W/HEAT TRACE				
lacksquare	GRADE CLEAN OUT	= = = GW= = = =	UNDERGROUND GREASE WASTE PIPING W/HEAT TRACE				
	FLOOR DRAIN	——————————————————————————————————————	CIRCUIT SETTER				
	FLOOR SINK	<b>──</b> ₩	2-WAY ELECTRONIC CONTROL VALVE				
	FLOOR SINK W/ GRATE	——————————————————————————————————————	3-WAY ELECTRONIC CONTROL VALVE				
$\odot$	ROOF DRAIN	——战——	2-WAY PNEUMATIC CONTROL VALVE				
<b>o</b>	OVERFLOW ROOF DRAIN	<del></del>	3-WAY PNEUMATIC CONTROL VALVE				
0	VENT THRU ROOF		SOLENOID VALVE				
FS	FLOW SWITCH	——//——	BUTTERFLY VALVE				
<b>©</b>	GAS REGULATOR	<del></del>	PLUG VALVE				
G	GAS METER		GAS COCK				
M	WATER METER	—-δ—-	BALL VALVE				
₹	WATER HAMMER ARRESTOR	<del></del>	CHECK VALVE				
<b>6</b>	SHUT-OFF VALVE IN IRRIGATION BOX	<b>——</b>	GATE VALVE				
	BACKFLOW PREVENTION STATION	—— <b>⋈</b> I	HOSE END DRAIN VALVE				
e <del>- +</del>	HOSE BIBB	——————————————————————————————————————	PRESSURE REDUCING VALVE				
——————————————————————————————————————	COMPRESSED AIR LINES	- <del>Z</del>	RELIEF VALVE				
——CD——	CONDENS ATE DRAIN PIPING	' <b>'ት</b> ' በ	TEMPERATURE PRESSURE RELIEF VALVE				
—— PC ——	PUMPED CONDENS ATE DRAIN PIPING	<u> </u>	THERMOMETER				
D	DRAIN PIPING	<u></u>	PRESSURE GAUGE WITH GAUGE COCK				
<del></del>	COLD WATER PIPING	<u>Т</u>	MANUAL AIR VENT				
——ICW——	INDUSTRIAL COLD WATER PIPING	<u> </u>	PRESSURE TEMPERATURE PORT				
——ISCW——	INDUSTRIAL SOFTENED COLD WATER PIPING	<del>,\&amp;'</del>	Y-STRAINER WITH BLOWDOWN				
——SCW——	SOFTENED COLD WATER PIPING	<del>- =</del>	PIPE GUIDE				
——F——	FIRE PROTECTION PIPING	<del></del>	UNION				
—— HPG ——	HIGH PRESSURE GAS PIPING	<del></del>	PIPE ANCHOR				
———G——	LOW PRESSURE GAS PIPING		FLEXIBLE CONNECTOR				

#### PLUMBING ABBREVIATIONS NOTE: THIS IS A MASTER SCHEDULE. NOT ALL ABBREVIATIONS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS. AFF ABOVE FINISHED FLOOR EXISTING TO BE RELOCATED **HORSEPOWER** ACCESS PANEL ROOF DRAIN ASHRAE AMERICAN SOCIETY OF HEATING, HPG REVOLUTIONS PER MINUTE HIGH PRESSURE GAS REFRIGERATION, AND AIR HOUR S AND OIL INTERCEPTOR CONDITIONING ENGINEERS HOT WATER SPECIFICATIONS AMERICAN SOCIETY OF PLUMBING INTERNATIONAL BUILDING CODE SQUARE **ENGINEERS** INVERT ELEVATION SQUARE FEET ACID VENT INTERNATIONAL MECHANICAL CODE TEMPERATURE ACID WASTE INTERNATIONAL PLUMBING CODE TEMPERED WATER BACKFLOW PREVENTION DEVICE TYPICAL KW KILOWATT BHP BRAKE HORSE POWER POUNDS UNIFORM BUILDING CODE BRITISH THERMAL UNIT PER HOUR LEAVING WATER TEMPERATURE UNIFORM MECHANICAL CODE CONDENS ATE DRAIN MAXIMUM UNLESS OTHERWISE NOTED MAX CFM CUBIC FEET PER MINUTE ONE THOUS AND BTUH UNIFORM PLUMBING CODE CHARACTERISTICS CHAR MINIMUM CIRCUIT AMPS **VENT CLEANOUT** MINIMUM V/PH/HZ VOLTAGE/PHASE/HERTZ COLD WATER MOCP MAXIMUM OVER CURRENT PROTECTION VARIABLE FREQUENCY DRIVE VFD DRAIN MEDIUM PRESSURE GAS VENT THROUGH ROOF DIA DIAMETER NOT APPLICABLE WALL CLEANOUT DOWN WATER GAUGE NORMALLY CLOSED EXISTING TO REMAIN NATIONAL ELECTRIC CODE EXISTING TO BE REMOVED EFFICIENCY NATIONAL FIRE PROTECTION ELEC ELECTRICAL ASSOCIATION **EWT** ENTERING WATER TEMPERATURE NOT IN CONTRACT **FAHRENHEIT** NORMALLY OPEN FLOOR CLEANOUT NTS NOT TO SCALE FPM FEET PER MINUTE OWNER FURNISHED, CONTRACTOR **INSTALLED** GAGE OR GAUGE PRESSURE DROP PRESSURE REDUCING VALVE GRADE CLEANOUT GCO POUNDS PER SQUARE INCH GREASE INTERCEPTOR POUNDS PER SQUARE INCH ABSOLUTE GALLONS PER FLUSH GPF POUNDS PER SQUARE INCH GALLONS PER MINUTE DIFFERENTIAL GW GREASE WASTE PSIG POUNDS PER SQUARE INCH GAUGE

	PLUMBING FIXTURE SPECIFICATIONS							
MARK	DESCRIPTION							
<u>RD-1</u>	ROOF DRAIN - JAY R. SMITH # 1010Y, CAST IRON BODY, UNDERDECK CLAMP.							
ORD-1	OVERFLOW ROOF DRAIN - JAY R. SMITH # 1070Y, CAST IRON BODY, UNDERDECK CLAMP WITH STANDPIPE.							

PLUMBING FIXTURE SCHEDULE									
MARK		ROUGH-IN (INCHES)						REMARKS	
MARK	FIXTURE	C.W.	TW	HW	V	S/W	TRAP	KEMAKKS	
<u>RD-1</u>	ROOF DRAIN	-	-	-	_	-	-	REFER TO DWGS. FOR EXACT SIZES	
ORD-1	ORD-1 OVERFLOW R.D REFER TO DWGS. FOR EXACT SIZES								
PROVIDE STOPS ON ALL FIXTURES NOT FURNISHED WITH INTREGAL STOPS. REFER TO PLANS FOR TEMPERED/HOT WATER LOCATIONS.									





--- & ASSOCIATES ----

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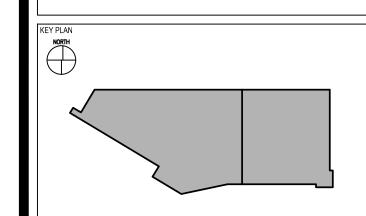
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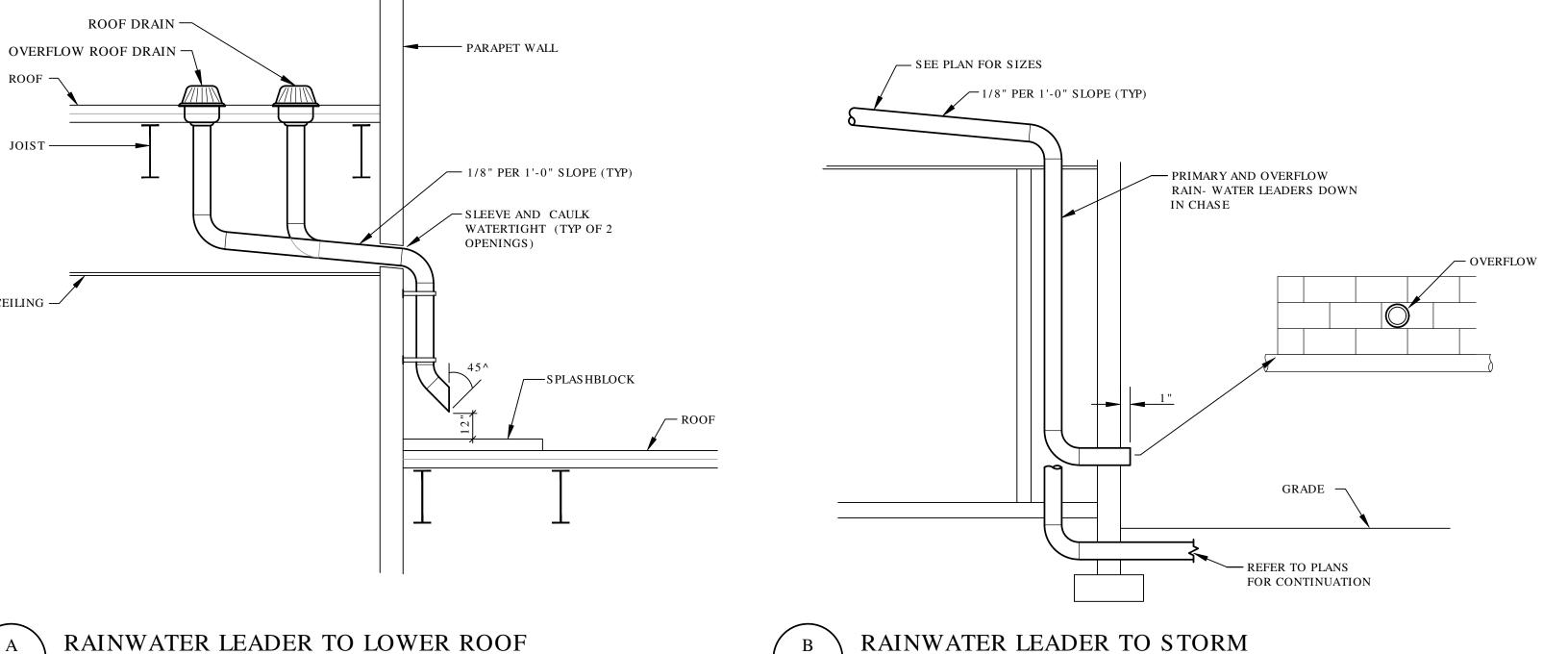
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Tulsa, OK 74119



No.	Description	Date
		<u> </u>
ET TITLE		
SYMBOI	LS LIST AND SCHEDU	LES

**CONSTRUCTION SET** 



RAINWATER LEADER TO LOWER ROOF

PIPE CAP/STUB-OUT

DIRECTION OF FLOW

PIPE DOWN

PIPE TEE DOWN

PIPE UP

— MPG — MEDIUM PRESSURE GAS PIPING

ORD OVERFLOW ROOF DRAIN PIPING

140° HOT WATER PIPING

HOT WATER RETURN PIPING

TEMPERED WATER PIPING

----GV ---- GAS VENT PIPING

——140°——

\_\_\_\_

——TW——

HOT WATER PIPING

