

Douglas County Community Center | Climbing Wall

PROJECT ADDRESS:

1329 Waterloo Lane, Gardnerville, NV 89410

BID SET

October 19, 2018



CLIENT:

Douglas County Community Center

PROJECT CONTACT

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Consultant

PLEASE RECYCLE

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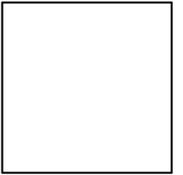
Job No: 12-043

Owner

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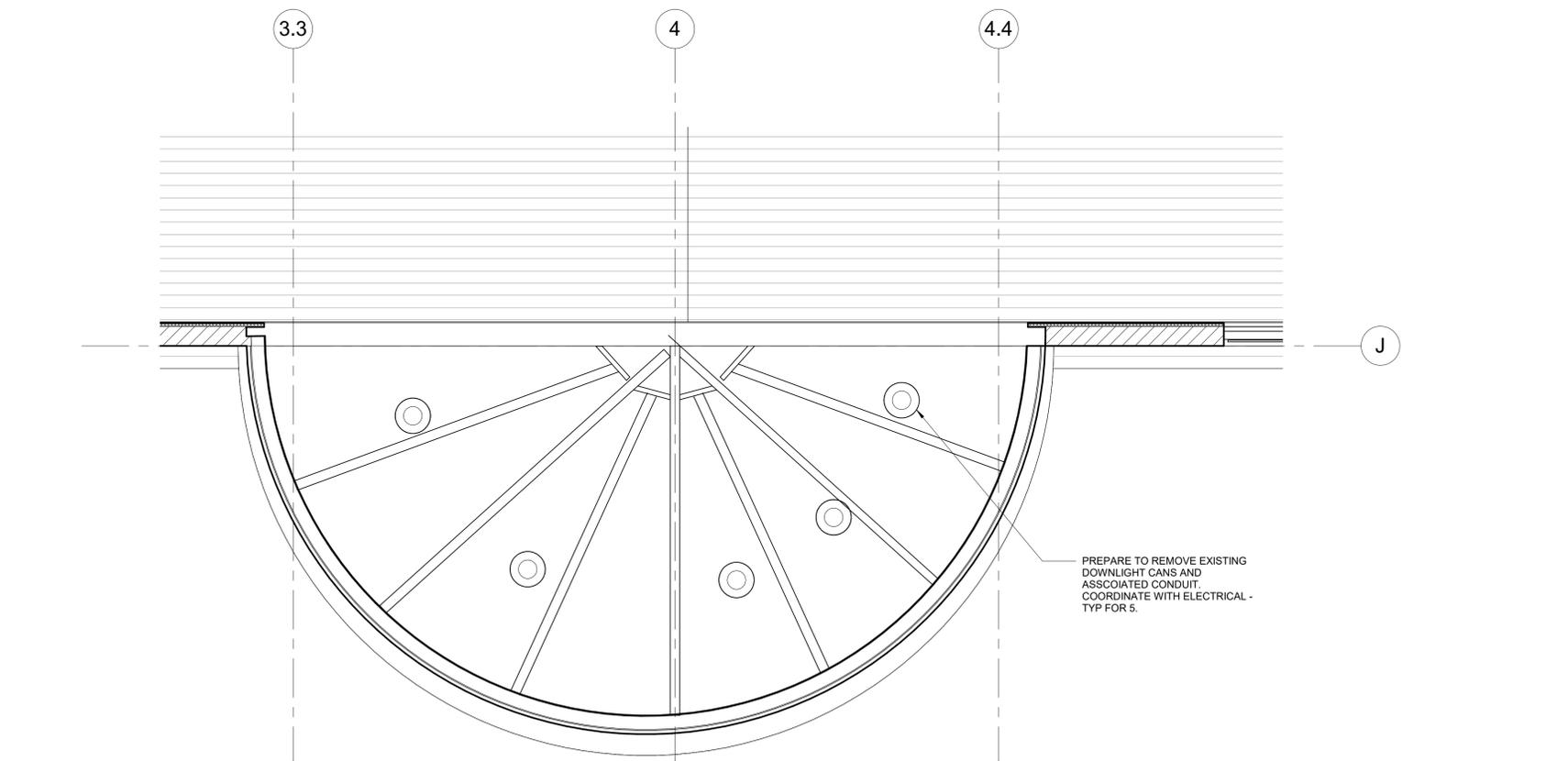
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DEMO FLOOR PLAN

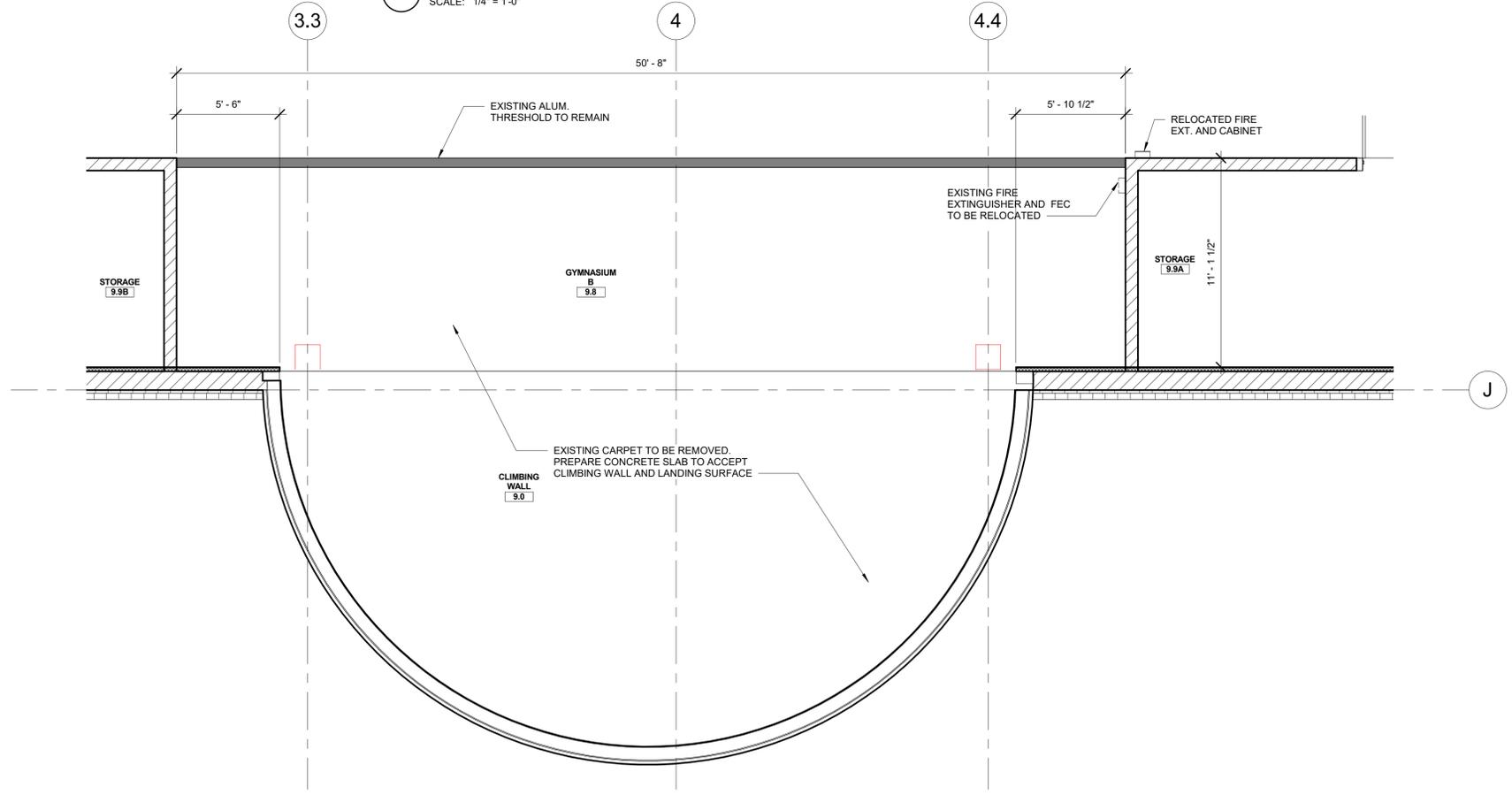
Date: October 19, 2018

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AD1.00



2 ENLARGED DEMOLITION CEILING PLAN
 SCALE: 1/4" = 1'-0"



1 ENLARGED DEMOLITION FLOOR PLAN
 SCALE: 1/4" = 1'-0"



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REVISIONS		
REV	DATE	DESCRIPTION
1	7-29-13	ADD #1 - GENERAL REV.

Sheet Title

OVERALL FLOOR PLAN

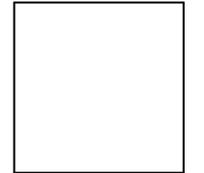
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1 OVERALL FLOOR PLAN
 SCALE: 1" = 20'-0"



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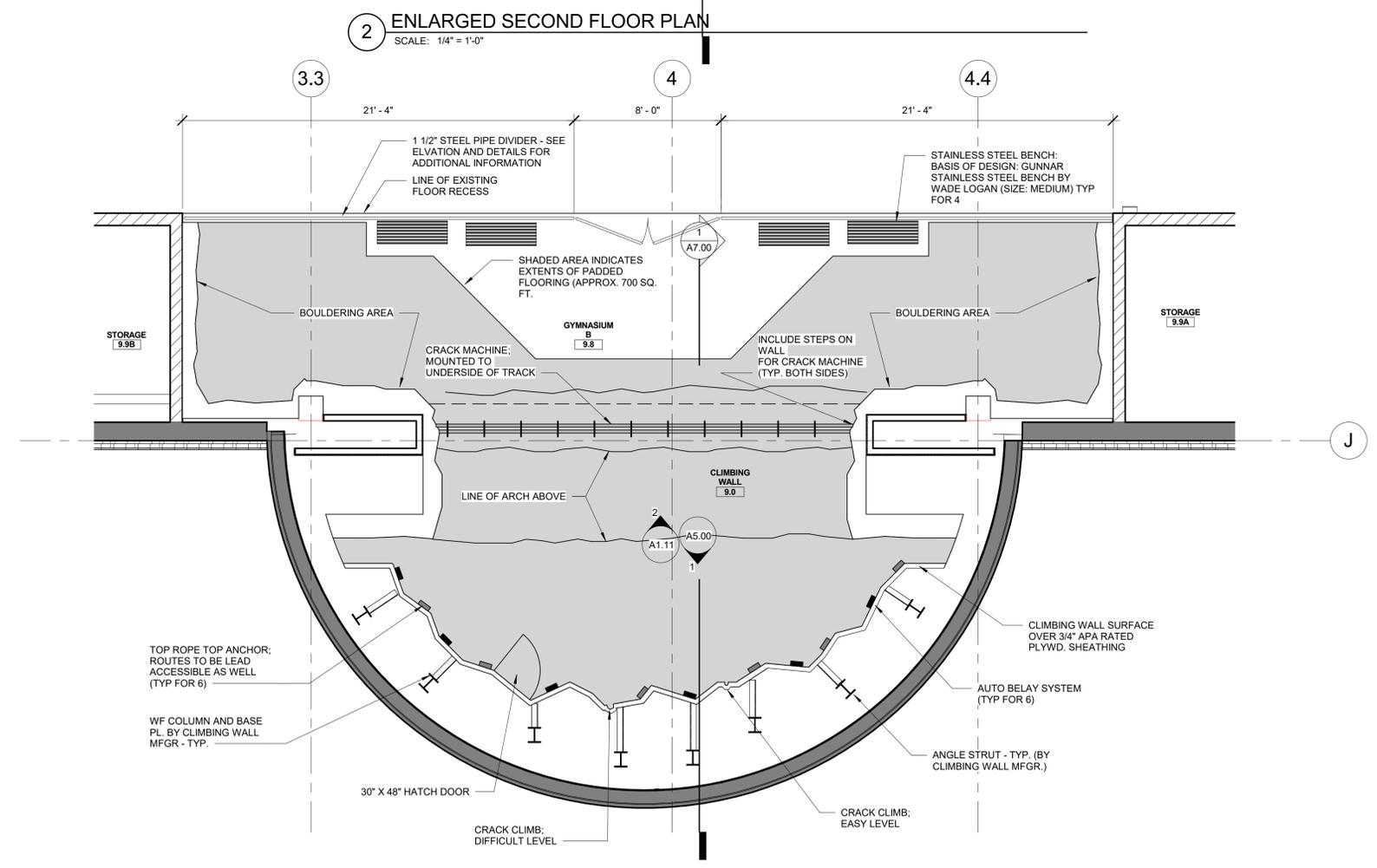
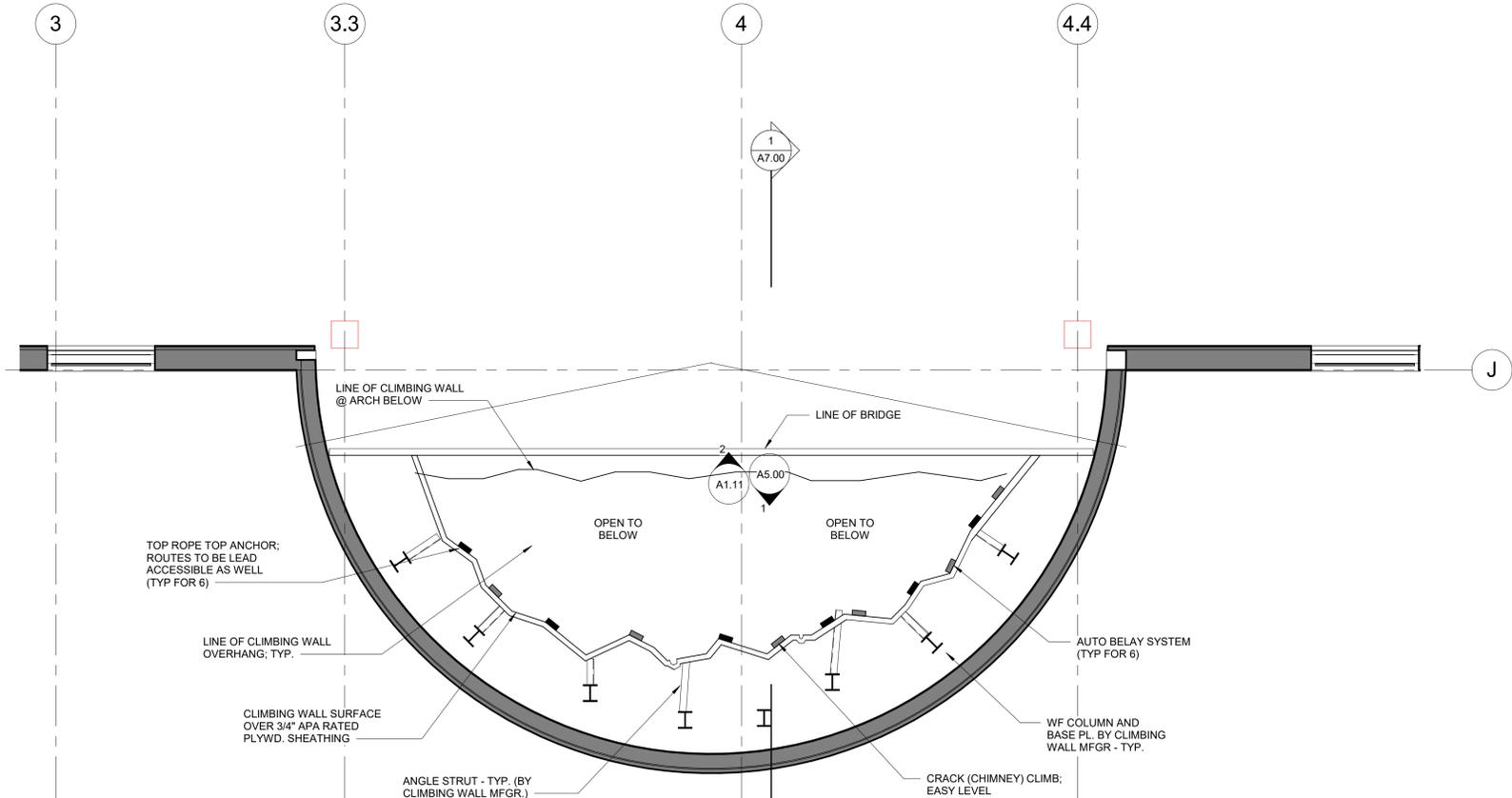
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ENLARGED FLOOR PLANS

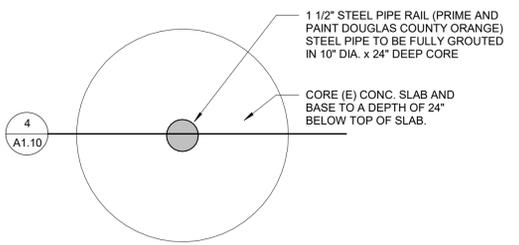
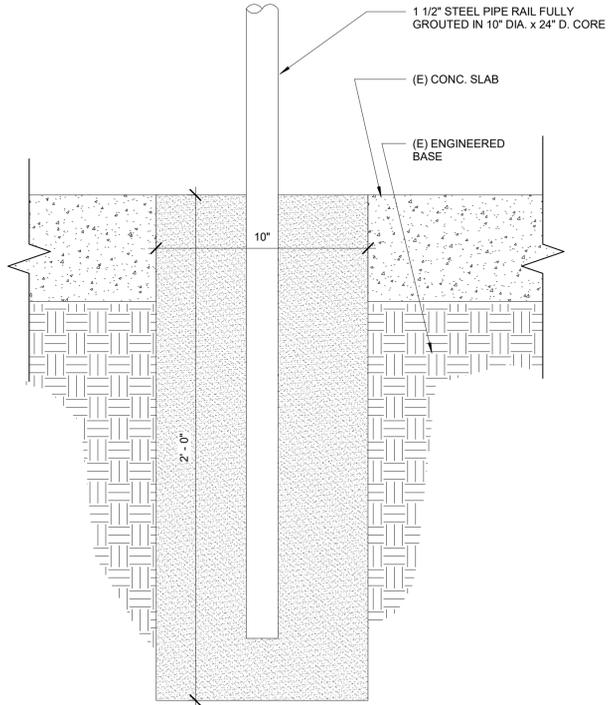
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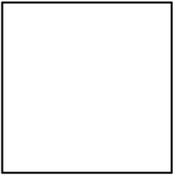
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NOTE: CLIMBING WALL DESIGNER TO MAINTAIN TYP. SAFETY DISTANCE.



3 PIPE RAIL - PLAN VIEW
 SCALE: 3" = 1'-0"



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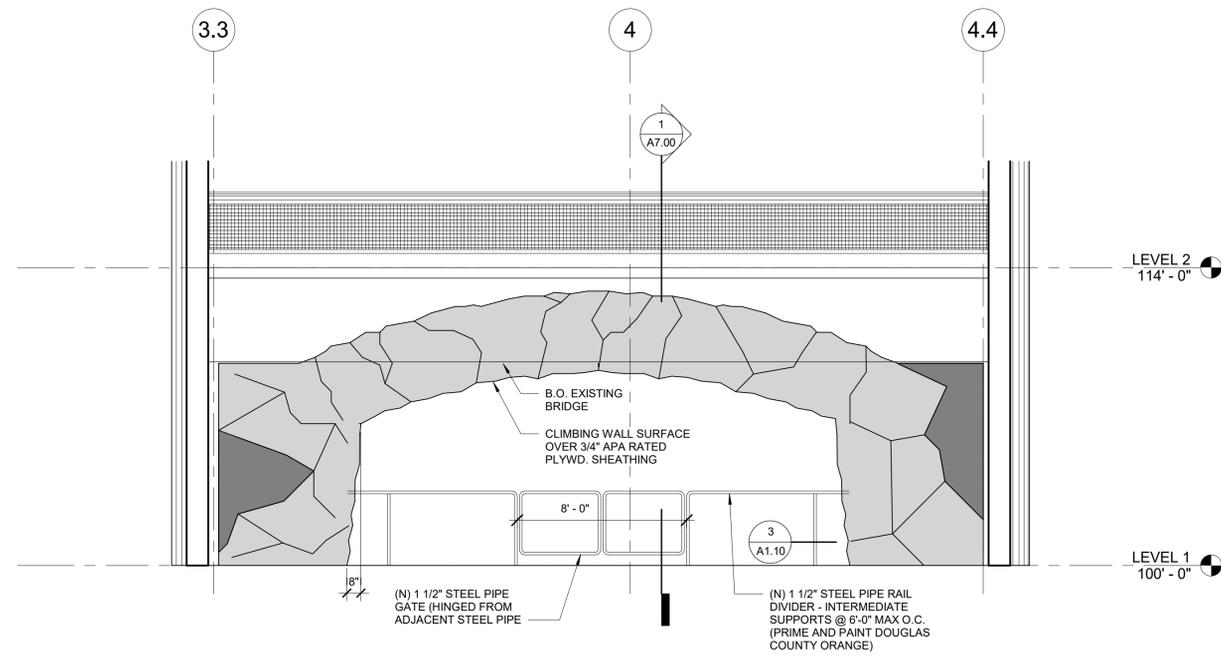
Sheet Title

**ENLARGED FLOOR
 PLAN - LEVEL 2 NEAR
 TOP**

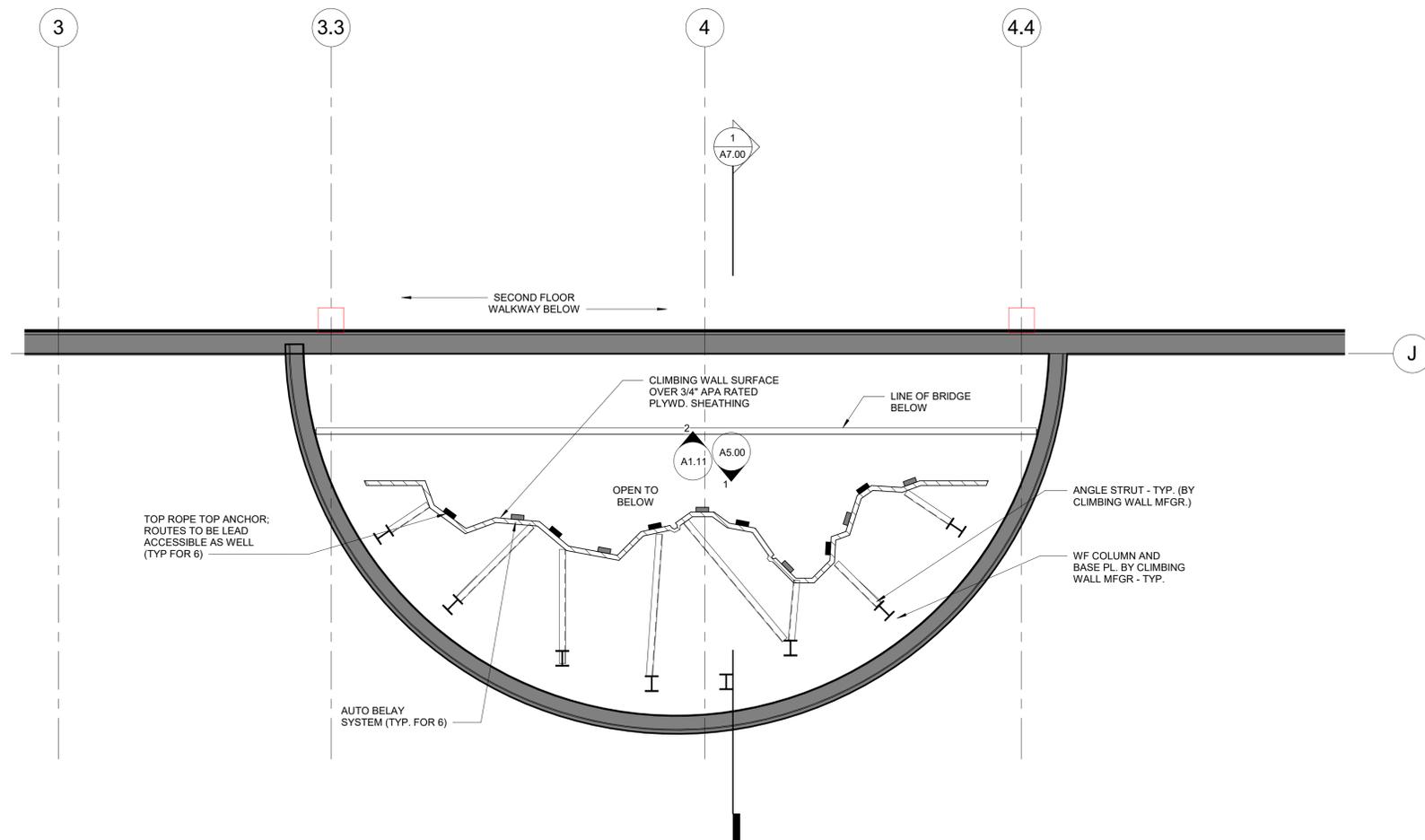
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2 ELEVATION OF ARCH
 SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - LEVEL 2 NEAR TOP (@ OVERHANG)
 SCALE: 1/4" = 1'-0"



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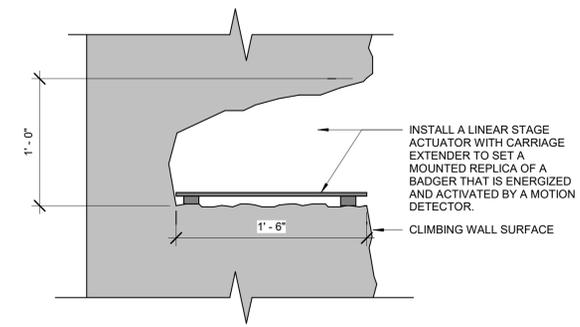
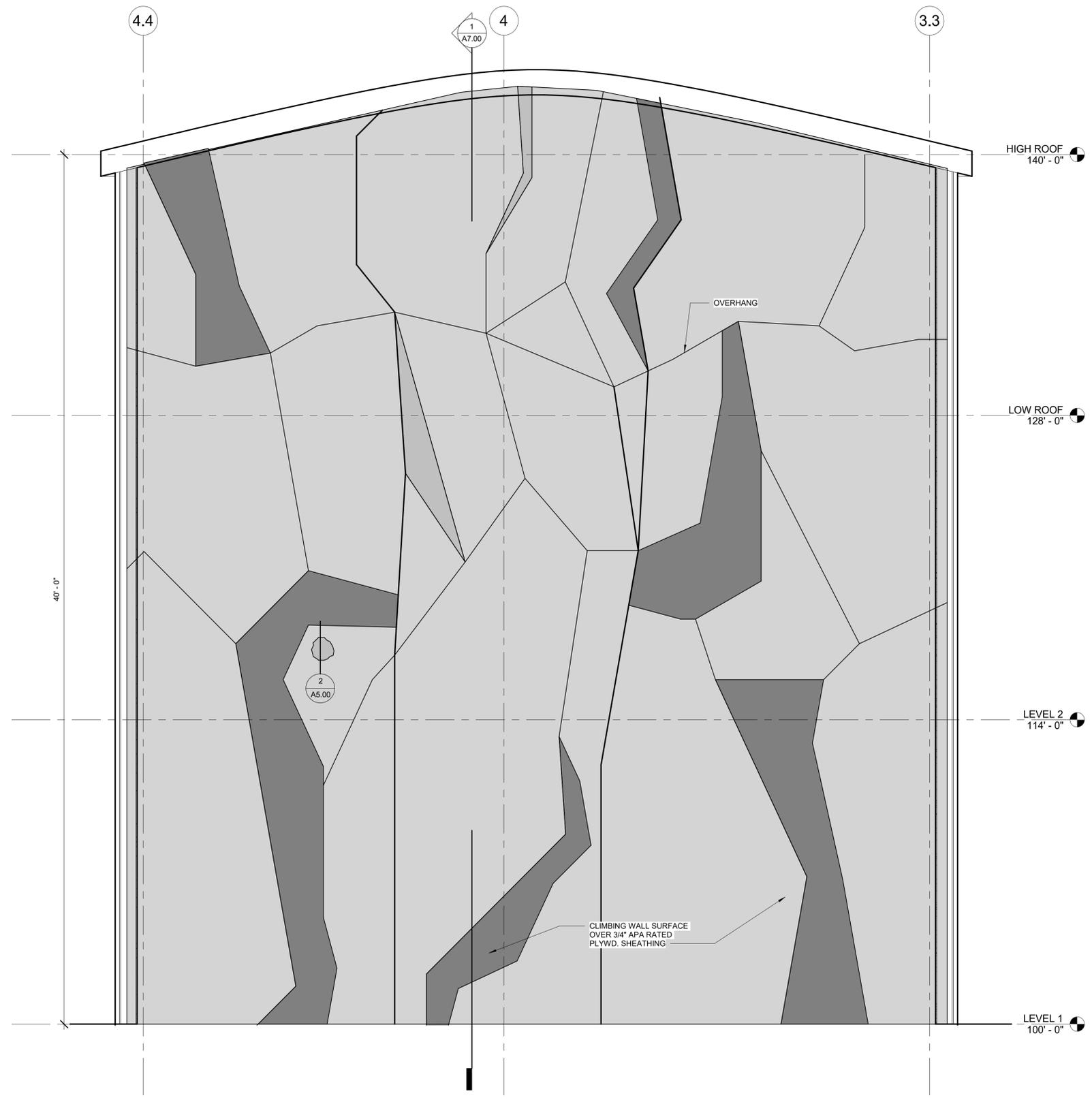
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CLIMBING WALL ELEVATIONS

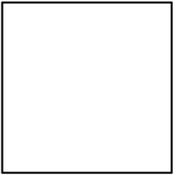
Date: October 19, 2018
 Sheet No:

A5.00



2 BADGER HOLE RECESS DETAIL
 SCALE: 1 1/2" = 1'-0"

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



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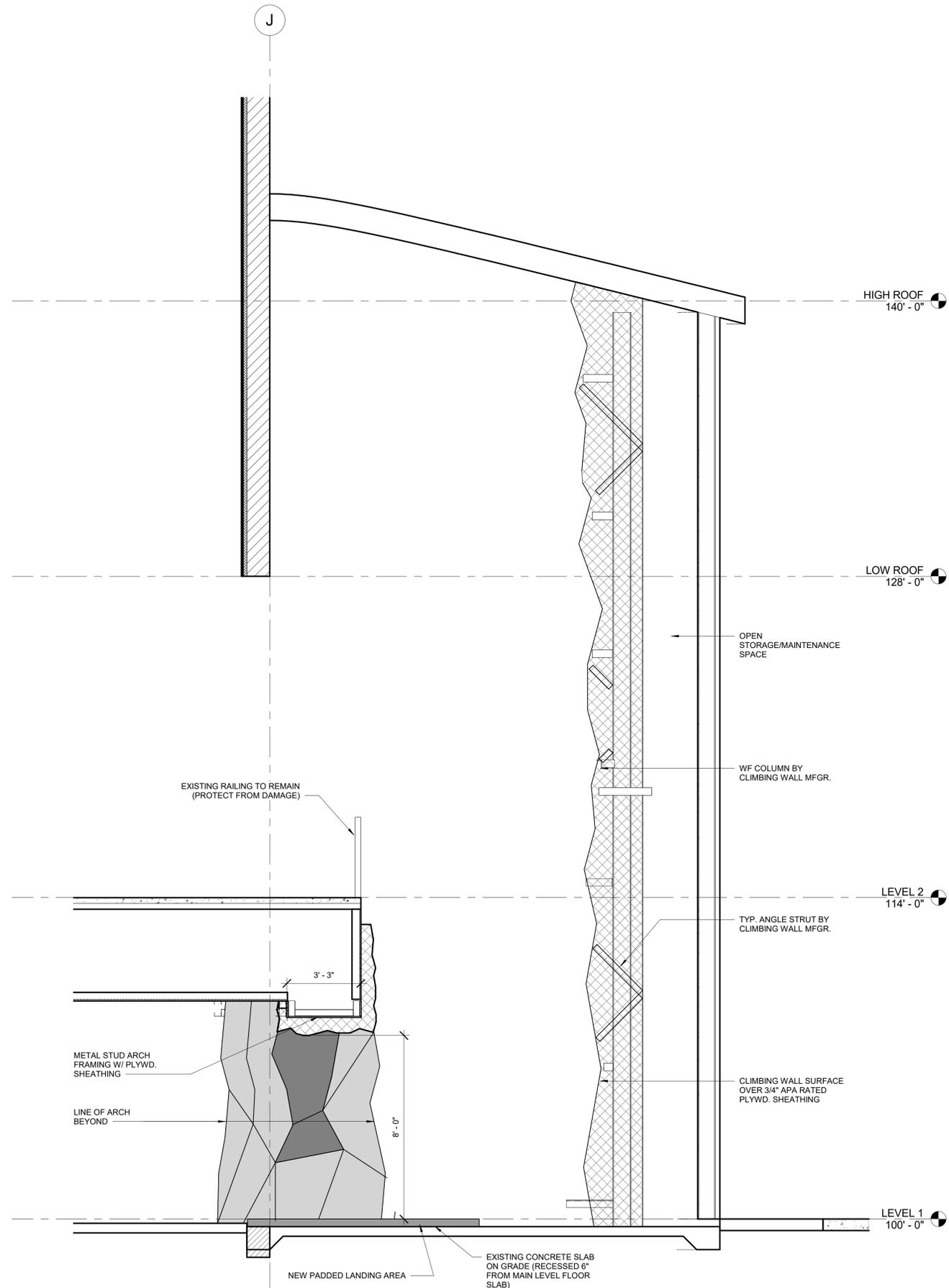
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**ROCK CLIMBING WALL
 SECTION**

Date: October 19, 2018

Sheet No:

A7.00



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

GENERAL NOTES

DIVISION 01 – Section 01 00 00 GENERAL REQUIREMENTS

- The Contractor shall verify all dimensions and conditions prior to starting construction. The Architect shall be notified of any discrepancies or inconsistencies.
- Do not scale the Drawings for working dimensions.
- Notes and details on Drawings shall take precedence over General Notes and Typical Details. Typical details shall apply to the project Drawings except when specific details are shown which shall take precedence.
- All work shall conform to the minimum standards of the following code:
 - The 2012 edition of the International Building Code, and any other regulating agencies which have authority over any portion of the work, and those codes and standards listed in these notes and Specifications.
- See Architectural Drawings for the following:
 - Size and location of window and door openings.
 - Size and location of concrete curbs, floor drains, and depressed areas.
 - Size and location of floor and roof openings except as shown.
 - Size and location of interior and exterior non-bearing partitions.
- See Mechanical, Plumbing, and Electrical Drawings for the following:
 - Electrical conduit runs, boxes, and outlets in walls, size and location of equipment bases.
 - Pipe runs, sleeves, hangers, trenches, and openings.
 - Concrete inserts for fixtures.
- Contractor shall investigate site during clearing and earth work operations for filled excavations or buried structures such as cesspools, cisterns, foundations, etc. If any such structures are found, notify Structural Engineer immediately.
- The contract Structural Drawings and Specifications represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing, shoring for loads due to construction equipment, etc. Observation visits to the site by the Structural Engineer shall not include inspection of the above items.
- Openings, pockets, etc. larger than 6 inches shall not be placed in slabs, decks, beams, joists, columns, walls, etc., unless specifically detailed on the Structural Drawings. Notify the Structural Engineer when drawings by others show openings, pockets, etc., not shown on the Structural Drawings, but which are located in structural members.
- Construction materials shall be spread out if placed on framed floors or roof. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where structure has not attained design strength.
- Shop Drawings submitted to the Structural Engineer for review shall consist of the number of sets to be returned plus one. Shop drawing submittals shall be bond copies.
- Adhesive anchors shall be HiTi HiT HY150 epoxy per ICBO ER-5193 with ASTM A-36 threaded rod or approved equal u.n.o.. Expansion anchors shall be HiTi kwik bolts II carbon steel per ICBO ER. 4627 u.n.o.. Adhesive or expansion anchors shall not be installed until masonry grout or concrete has cured to design strength.
- Design loads:
 - Vertical and horizontal reactions due to dead and live loads provided by manufacturer, Nicros Inc.
- Wind Design Data:
 - Not Applicable
- Earthquake Design Data:
 - Ip = 1.0 Occupancy Category III
 - Ss = 2.279g and S1 = 0.769g
 - Site class: = D
 - SDs = 1.519g , SD1 = 0.769g
 - Seismic design category = D
 - Basic demands on non structural components
 - Interior non structural wall and partitions
 - Fp = 1550 lbs. Max.

DIVISION 01 – Section 01 11 00 SUMMARY OF WORK

- It shall be the contractors direct responsibility to comply with typical details and general notes as delineated or defined on the typical detail drawings of these contract documents regardless of specific flagging or reference to applicable note or detail.
- It shall be the contractor's responsibility to coordinate with all trades regarding utilities passing through and under footings. Structural requirements for these conditions are delineated in typical details.
- Top of footing elevations noted are minimum. see note 2 for additional requirements.
- Contractor to verify and coordinate all locations and sizes of openings in slabs, slab depressions, and curbs for all related construction prior to floor layout or construction. Contractor shall then use appropriate detail(s) or appropriate wall section for each applicable condition.
- Drawings are diagrammatic in nature and are not intended to indicate every opening or penetration in roof or other structure. Contractor shall coordinate and verify location and size of all such openings and penetrations with related sub-contractors prior to roof or other framing layout or construction. Contractor shall then use appropriate typical or referenced detail(s) for each opening or penetration.
- Contractor to verify with appropriate sub-contractors the exact location, weight, and intended method of attachment of all items to be suspended from or in any way attached to any roof framing or other structural member unless such item(s) are clearly addressed by the structural construction documents. This information shall be transmitted in writing to the appropriate framing manufacturer via the structural engineer prior to final design or fabrication of structural framing members.
- Contractor to verify dimensions with architect prior to construction.
- Contractor to verify all existing conditions and dimensions and notify the architect in writing of any discrepancies.
- The contractor and all subcontractors he intends to use (including agents and suppliers) are aware of and acknowledge that close coordination among architectural, mechanical, electrical and structural drawings is required for the following:
 - Determination of all column locations and sizes.
 - Determination of top of floor, top of steel, wall plate and top of beam elevations.
 - Verification of all dimensions.
 - Verify all tops of footings.
- The contractor and all subcontractors he intends to use (including agents and suppliers) shall make consideration for and include Monies for the above in preparation of their bids. This requirement shall supersede any contained in the AISC "Manual of Steel Construction".

DIVISION 01 – Section 01 45 00 SPECIAL INSPECTIONS AND DEFERRED SUBMITTALS

- Special inspection, per the International Building Code chapter 17, Table 1705.2 for steel and 1705.3 for concrete shall be required for the following types of work. See project Specifications for specified requirements.
 - All concrete work for strengths greater than 2500 psi, except for slabs on grade, footings and non structural concrete.
 - All reinforcing steel for concrete strengths greater than 2500 psi.
 - All field welding (except metal studs, furring channels, etc.). Shop welding for procedures and multiple pass welds.
 - All full penetration welds shall be specially inspected in accordance with AWS and the current International Building Code.
 - All fillet welds shall be visually inspected in accordance with AWS and the current International Building Code.
 - Bolts installed in conc. or masonry.
 - All ASTM A-325 and/or ASTM A-490 High Strength Bolts.
 - All expansion bolts and adhesive anchors.

DIVISION 03 – Section 03 00 00 CONCRETE

- All phases of work pertaining to the concrete construction shall conform to the 'Building Code Requirements for Reinforced Concrete' (ACI 318) and the 'Specifications for Structural Concrete for Buildings' (ACI 301) latest approved editions, with modifications as noted in the Drawings or Specifications.
- Reinforced concrete design is by the 'Ultimate Strength Design method'.
- Concrete mixes shall be designed by a qualified testing laboratory and approved by the Structural Engineer.
 - Proposed mix designs shall be no more than 1 (one) year old, and have affixed on each submitted copy the original seal of the Reviewing Engineer. The reviewing Engineer shall be registered in the state of Nevada.
 - Each mix design shall indicate the project name and address. Contractor shall designate location of use for each proposed mix design.
 - Each mix design shall include the slump, before and after adding plasticizer, air entrainment, type of aggregate, type of cement, and admixtures to be used.
 - All exposed concrete shall have air entrainment.
 - No calcium chloride shall be used.
 - Water cement ratio for footings shall not exceed 0.55.
 - Slab on grade shall have a water cement ratio of 0.40 and 15% fly ash substitution for cement. Slab on grade shall be moisture cured per ACI 318 Sec. 5.11 requirements.
- Schedule of Structural concrete 28-day strengths and types:

LOCATION IN STRUCTURE	STRENGTH PSI	TYPE
Footings:	2500	Normal Wt. 145 ± 5 pcf

 - * Use min. 5.5 sacks cement/c-y. and max 3" slump with water (slump may be increased with admixtures that do not promote shrinkage.)
 - ** Provide 6% ± 1% air entrainment in concrete exposed to weather.
- Portland cement shall conform to ASTM C-150, type II.
- Maximum aggregate size shall conform with the following: 1/5 distance between forms, 3/4 distance between reinforcing bars, 1/3 thickness of slab.
 - Aggregate for hard rock concrete shall conform to all requirements and tests of ASTM C-33 and project Specifications. Exceptions may be used only with permission of the Structural Engineer.
- Forms for elevated concrete beams shall be laid out and constructed to provide the specified cambers shown on the Drawings.
- Dry pack under base plates, sill plates, etc., see Specifications.
- Concrete mixing operations, etc., shall conform to ASTM C-94.
- Placement of concrete shall conform to ACI-318 requirements. Sandblast all concrete surfaces against which concrete is to be placed.
- If columns and walls are placed with floor, two hours must elapse between end of column wall pour and beginning of floor pour.
- Clear coverage of concrete over outer reinforcing bars shall be as follows:
 - Concrete poured directly against earth: 3 in. clear to reinforcing.
 - Structural slabs: 1 in. clear (top to bottom).
 - Formed concrete with earth backfill: 2 in. clear.
 - Slabs on Grade: center in slab.
- All reinforcing bars, anchor bolts and other concrete inserts shall be well secured in position prior to placing concrete.
- Provide sleeves for plumbing and electrical openings in concrete before placing. Do not cut any reinforcing which may conflict. Coring in concrete is not permitted except as shown. Notify the Structural Engineer in advance of conditions not shown on the Drawings.
- Conduit shall not be placed in slabs or walls unless specifically detailed otherwise.
- Projecting corners of beams, walls, columns, etc., shall be formed with a 1/2 in. chamfer, unless otherwise noted on Architectural Drawings.
- Curing compounds used on concrete that is to receive a resilient tile finish shall be approved by the tile manufacturer before use.
- Place and protect concrete in compliance with ACI 305 and 306, respectively, during hot and cold exposure conditions.

DIVISION 03 – Section 03 21 00 REINFORCING STEEL

- All reinforcing steel shall be detailed and placed in conformance with the 'Building Code Requirements for Reinforced Concrete' (ACI 318 latest approved edition), and the 'Manual of Standard Practice for Reinforced Concrete Construction' (latest edition) by the C.R.S.I. and the W.C.R.S.I., as modified by the project Drawings and Specifications.
- Deformed reinforcing bars shall be ASTM A-615 Grade 60 except ties, stirrups, slab dowels and reinforcing bars in non structural concrete such as slabs on grade, which may be Grade 40, unless noted otherwise. Use A706 reinforcing bars that are required for welding.
- Welding of reinforcing shall be with low hydrogen electrodes in conformance with 'Recommended Practices for Welding Reinforcing Steel, etc.', American Welding Society, AWS-D14. See Specifications.
- All reinforcing bar bends shall be made cold.
- Welded wire fabric shall conform to ASTM A-185.
- Minimum lap of welded wire fabric shall be 6 inches or one full mesh and one half, which ever is greater.
- Reinforcing splices shall be made only where indicated on the drawings.
- Dowels between footings and walls or columns shall be the same grade, size and spacing or number as the vertical reinforcing, respectively.
- All bars shall be marked so their identification can be made when the final in-place inspection is made.
- The Contractor shall provide for an allowance of 2 tons of reinforcing bars to be furnished, fabricated and placed during progress of work as may be directed by the Structural Engineer, in addition to all steel indicated on the drawings.
- Splice reinforcing bars in masonry 48 bar diameters. Splice reinforcing bars in concrete 40 bar diameters for #5 bars and smaller. Splice reinforcing bars in concrete 44 bar diameters for #6 bars and larger. See typical details for splice requirements in concrete. Splice all reinforcing bars 2'-0" minimum.
- All reinforcing bars to be tied in place before pouring concrete or grout.
- Do not splice reinforcing steel in middle third of walls.

DIVISION 05 – Section 05 12 00 STRUCTURAL STEEL FRAMING

- Structural steel shall be detailed, fabricated and erected in accordance with the AISC Specifications for the design, fabrication and erection of Structural steel for buildings (latest edition and supplements).
- All Structural steel shall conform to ASTM A-992 with fy=50 ksi, unless noted otherwise. Misc. steel such as Plates, and Angles may be ASTM-A36.
- Pipe columns shall conform to ASTM designation A-53 Grade 'B'. All steel tubes shall conform to ASTM A-500 Grade 'B' cold formed tubes with fy = 46 ksi. unless noted otherwise on plans.
- All bolts, except anchor bolts, shall conform to ASTM A-325, connection type N, Anchor bolts shall conform to ASTM A-307 A36 or F1554, grade 36 unless noted otherwise. All bolts shall have a minimum of 3 threads projecting beyond the nut.
- Structural steel fabricator shall furnish shop drawings of all Structural steel, respectively, for Architect's and Engineer's review before fabrication.
- Bolt holes in steel shall be 1/16 inch larger than nominal size of bolt used, except anchor bolt holes for column base plates which may be 3/16 inch larger.
- All Structural steel surfaces shall be shop painted. All steel exposed to weather shall have two coats of paint.
- All welds shall be in conformance with the Structural welding code (AWS D1.1) of the American welding society. See I.B.C.
- Weld lengths called for on plans are the net effective length required. Use E70XX electrodes.
- Welding tests and inspections, see I.B.C.

ABBREVIATIONS

ADDL.	Additional	K.S.I.	Kips per Square Inch
AGGR.	Aggregate	LAM.	Laminated
ALT.	Alternate	L.V.L.	Laminated Veneer Lumber
A.B.	Anchor Bolt	LBS.	Pounds
ANC.	Anchor	LT.	Light
APPROX.	Approximate	L.L.	Live Load
ARCH.	Architect	LG.	Long
ARCH'L	Architectural	L.L.H.	Long Leg Horizontal
ASS'Y	Assembly	L.L.V.	Long Leg Vertical
AVG.	Average	M.B.	Machine Bolt
BM.	Beam	M.I.W.	Malleable Iron Washer
BRG.	Bearing	MFR.	Manufacturer
BEL.	Below	MK	Mark
BET.	Between	MAT'L	Material
BLK.	Block	MAX.	Maximum
BLKG.	Blocking	MECH.	Mechanical
BTM.	Bottom	MTL.	Metal
B.O.	Bottom Of	MEZZ.	Mezzanine
B.O.D.	Bottom of Deck	ML.	Micro-Lam (By TRUS JUST.)
B.N.	Boundary Nailing	MIN.	Minimum
B.S., B/S	Both Sides	MISC.	Miscellaneous
BLDC.	Building	MULT.	Multiple
C.B.C.	California Building Code	N.F.	Near Face
CANT.	Cantilever	N.S.	Near Side
C.B.	Carriage Bolt	(N)	New
CLG.	Ceiling	NOM.	Nominal
CEN.	Center	N.I.C.	Not in Contract
¢, C.L.	Centerline	NTS	Not to Scale
c.c.	Center to Center	#	Number or Pounds
C.G.	Center of Gravity	o.c.	On Center
CHNL.	Channel	OPNG.	Opening
CLR.	Clear	OPP.	Opposite
COL.	Column	O.H.	Opposite Hand
C.P.	Complete Penetration	O.S.B.	Oriented Strand Board
CONC.	Concrete	ORIG.	Original
CMU	Concrete Masonry Units	O.D.	Outside Diameter
CONN.	Connection	o/	Over
C.J.	Construction Joint or Control Joint	PR.	Pair
CONT.	Continuous	PTN.	Partition
C.N.	Continuous Edge Nailing	PSL.	Parallel (By TRUS JUST.)
CONTR.	Contractor	PARL. //	Parallel
C.M.J.	Control Masonry Joint	P.P.	Partial Penetration
CONST.	Construction	PEN.	Penetration
C/S	Countersink	PERP.	Perpendicular
D.L.	Dead Load	P.	Plate
D.B.A	Deformed Bar Anchor	PLY	Plywood
DET.	Detail	P.C.F.	Pounds Per Cubic Foot
DIAG.	Diagonal	P.S.F.	Pounds Per Square Foot
DIAM., Ø	Diameter	P.S.I.	Pounds Per Square Inch
DIM.	Dimension	P.A.F.	Powdered Actuated Fastener
DO	Ditto	P.D.F.	Power Driven Fastener
DEB.	Double	PREFAB.	Prefabricated
D.F.	Douglas Fir	P.J.F.	Post-Tensioned; Pressure Treated or Preservative Treated
DWG.	Drawing	P.T.	Project
D.J.	Dowel Joint	PROJ.	Project
EA.	Each	P.L.	Property line
E.F.	Each Face	RAD.	Radius
E.S.	Each Side	RWD.	Redwood
E.W.	Each Way	REF.	Reference
E.N.	Edge Nailing	REINF.	Reinforcement
ELECT.	Electrical	R.C.	Reinforced Concrete
EL.	Elevation	REQ'D	Required
EMBED.	Embedment	REV.	Revision
ENGR.	Engineer	RMT	Rosboro Manufactured Timber
EQ.	Equal	SCHED.	Schedule
EQUIP.	Equipment	SECT.	Section
EXCAV.	Excavate	S.A.D.	See Architectural Drawings
EX.	Existing	S.M.D.	See Mechanical Drawings
EXP.	Expansion	S.T.S.	Self-Tapping Screw
E.J.	Expansion Joint	S.W.	Shear Wall
EXT.	Exterior	SHT.	Sheet
FAB.	Fabrication	SIM.	Similar
F.O.	Face of	S.J.	Slab Joint
F.O.C.	Face of Concrete	S.O.G.	Slab On Grade
F.O.M.	Face of Masonry	S.B.	Solid Block
F.O.S.	Face of Stud	SPEC'S	Specifications
F.O.W.	Face of Wall	SQ.	Square
F.S.	For Side	S.F.	Square Feet
FT.	Feet	STGR.	Staggered
F.N.	Field Nailing or Face Nail	STD.	Standard
FIG.	Figure	STL.	Steel
FIN.	Finish	STFNR.	Stiffener
F.F.	Finished Floor	STRUCT.	Structural
FLR.	Floor	SYM.	Symmetrical
F.D.	Floor Drain	THK.	Thick
FTG.	Footing	THRD.	Through
F.E.F.	Forced-Entry Fasteners	TRU	Truss
FDN.	Foundation	T.N.	Top Nail
FRMG.	Framing	TOL.	Tolerance
GA.	Gage or Gauge	T and B	Top and Bottom
GALV.	Galvanize	T and G	Tongue and Groove
GLB	Glulam Beam	T.O.	Top of
GR.	Grade	T.O.B.	Top of Beam
GB	Grade Beam	T.O.C.	Top of Concrete
GRND.	Ground	T.O.F.	Top of Footing
GYP. BD.	Gypsum Board	T.O.M.	Top of Masonry
HGR.	Hanger	T.O.S.	Top of Steel
H.S.A.	Headed Stud Anchor	T.O.W.	Top of Wall
HDR.	Header	TRMR.	Trimmer
HGT.	Height	TS	Tube Steel
H.F.	Hem-Fir	TYP.	Typical
H.S.B.	High Strength Bolt	U.N.O.	Unless Noted Otherwise
HSS	Hollow Structural Steel	U.B.C.	Uniform Building Code
HORIZ.	Horizontal	V.I.F.	Verify in Field
H	Horizontal Reinf.	VERT.	Vertical
IN.	Inches	V	Vertical Reinf.
INCL.	Include	VOL.	Volume
INCL'D	Included	W.P.J.	Weakened Plane Joint
INFO.	Information	WT.	Weight
I.D.	Inside Diameter	W.S.	Welded Stud or Wood Screw
INT.	Interior	WWF	Welded Wire Fabric
I.B.C.	International Building Code	WMM	Welded Wire Mesh
I.J.	Isolation Joint	W	Wide Flange Beam
JT.	Joint	W/O	Without
JST.	Joist	WD.	Wood
K.D.	Kiln Dried	WP	Work Point
KING	King Stud	WTR	Water Vapor Transmission Rate
K	Kip (1,000 lbs)		

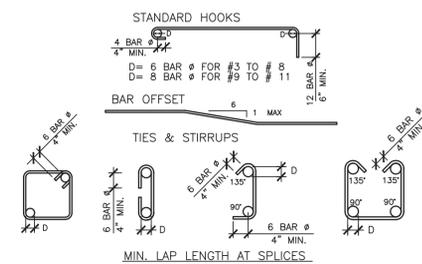
SHEET INDEX

S0.1 GENERAL NOTES/TYPICAL DETAILS

S1.1 FOUNDATION/ SECOND LEVEL FRAMING PLAN

S1.2 ROOF FRAMING PLAN

S2.1 DETAILS



SIZE OF REINF.	#3	#4	#5	#6	#7	#8	#9	#10
CONCRETE	24"	30"	46"	65"	89"	117"	148"	188"

- NOTES:**
- USE FOR SINGLE CURTAIN OR DBL. CURTAIN REINFORCEMENT w/ SPLICES STAGGERED 24".
 - USE FOR (2) OR MORE BARS SPACED 3 INCHES OR CLOSER TOGETHER. IF SPLICES ARE STAGGERED USE SINGLE CURTAIN LAP LENGTHS.

1 REBAR CONFIG. AND LAPS

C-000-104/N.T.S.

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Project

**Douglas County
 Community Center |
 Climbing Wall**
 1329 Waterloo Lane,
 Gardnerville, NV 89410

Job No: 2046

Owner

**Douglas County
 Community Center**



10/19/18

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REV	DATE	DESCRIPTION

Sheet Title

GENERAL NOTES

Date: OCTOBER 19, 2018

Sheet No:

S0.1

PLAN NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE AND VERIFY ALL DIMENSIONS WITH THE DRAWINGS. CONTACT ENGINEER WITH DISCREPANCIES BEFORE CONSTRUCTION OCCURS.

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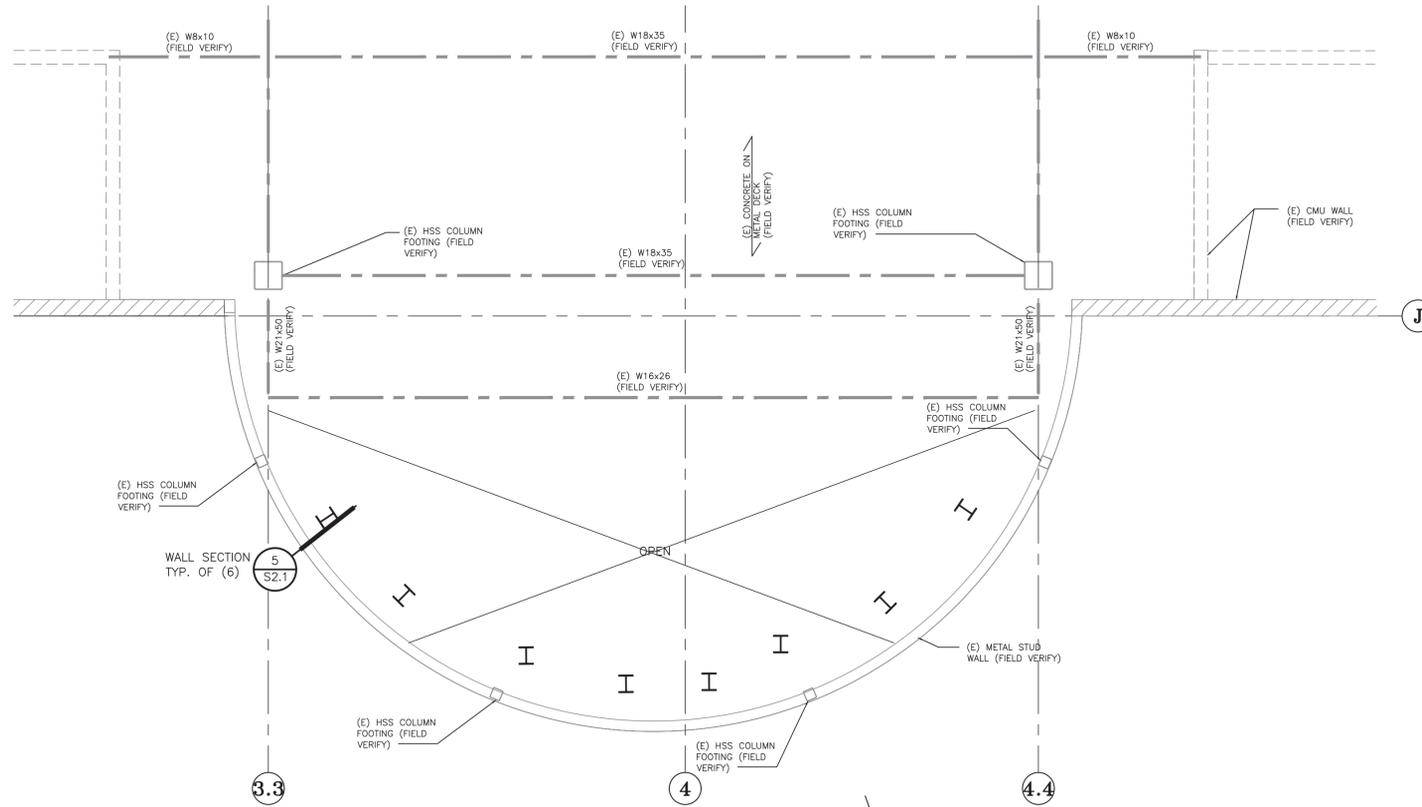
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**FOUNDATION/ SECOND
 LEVEL FRAMING PLAN**

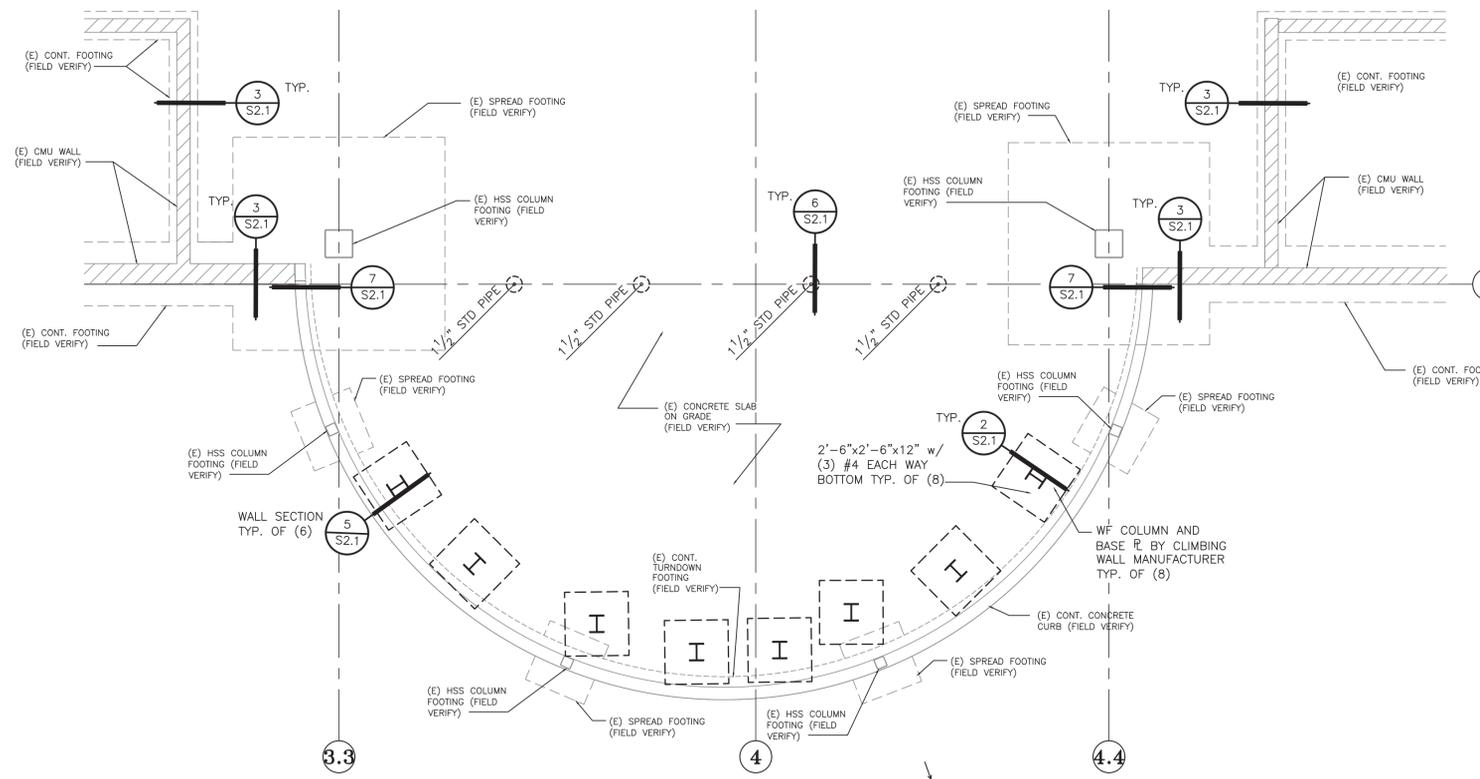
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S1.1



SECOND LEVEL FRAMING PLAN
 1/4"=1'-0" (WALKING PATH)



FOUNDATION PLAN
 1/4"=1'-0"



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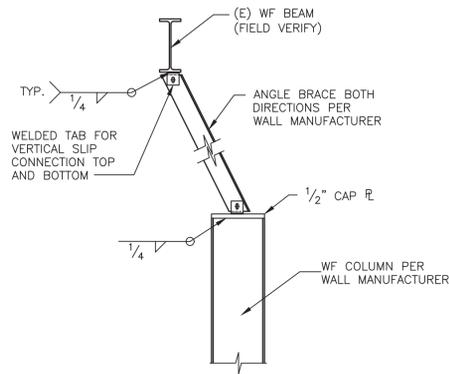
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DETAILS

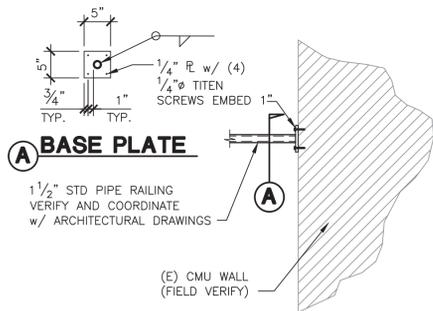
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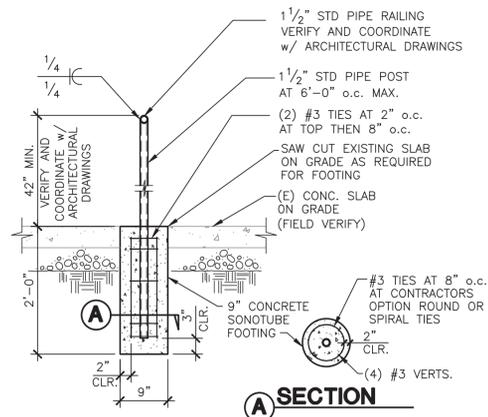
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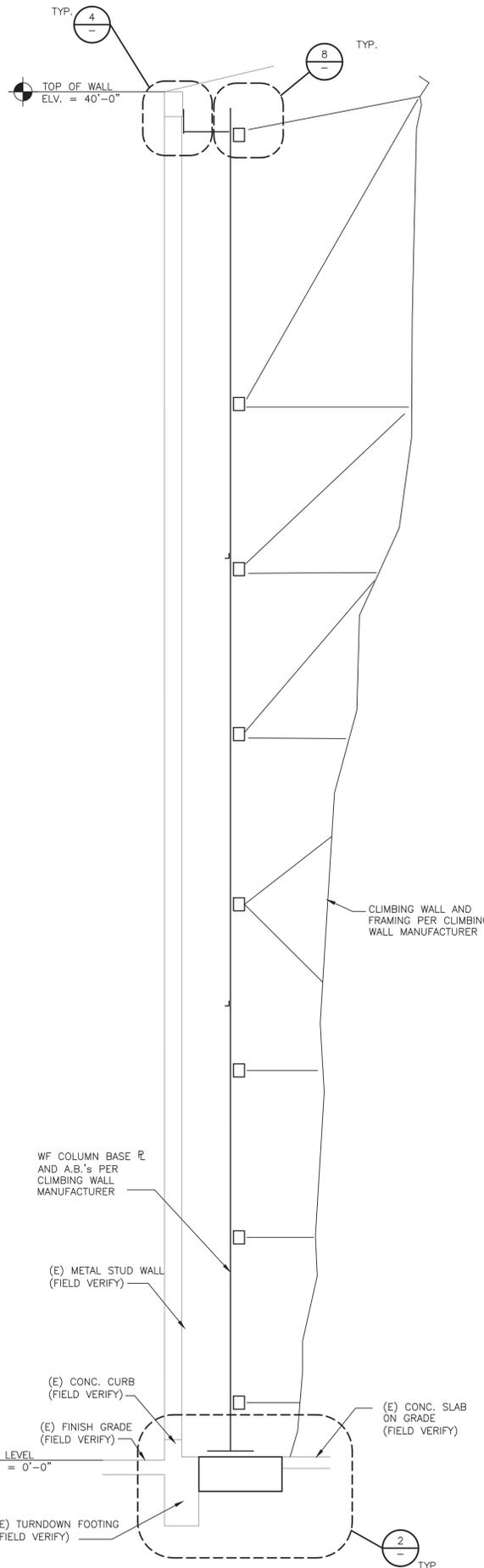
8 ANGLE BRACING TO TOP OF COLUMNS N.T.S.



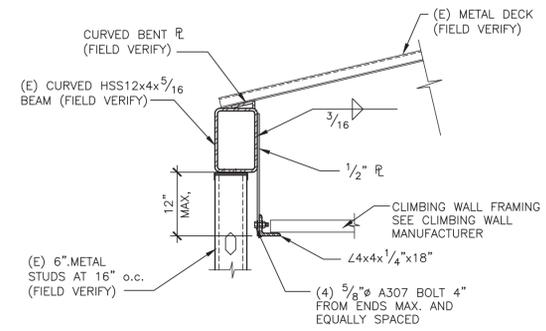
7 RAILING TO EXISTING CMU WALL N.T.S.



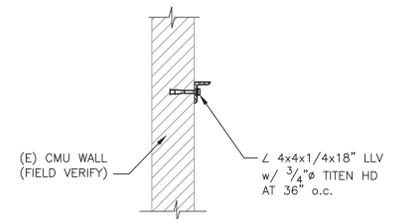
6 POLE FOOTING AT RAIL POST N.T.S.



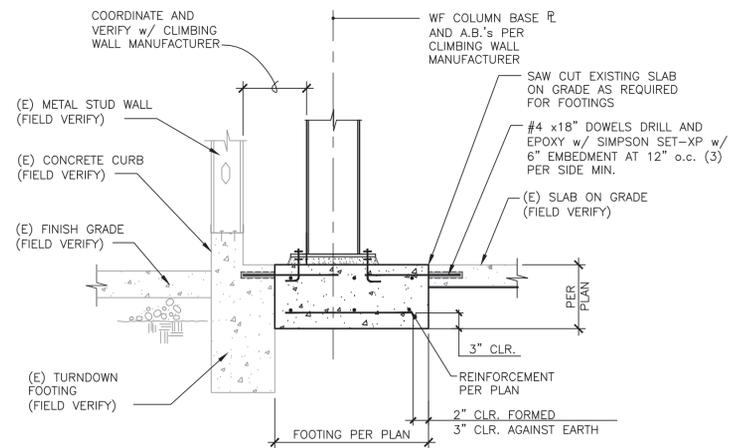
5 CLIMBING WALL ELEVATION N.T.S.



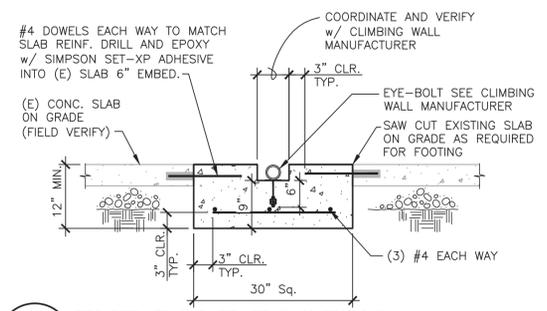
4 TOP OF CLIMBING WALL CONNECTION N.T.S.



3 TOP OF BOULDERING WALL CONNECTION N.T.S.



2 BOTTOM OF CLIMBING WALL CONNECTION N.T.S.



1 EYE-BOLT FOOTING N.T.S.

MECHANICAL SPECIFICATIONS

A. GENERAL

1. THE INFORMATION INDICATED ON THESE DRAWINGS AS EXISTING IS BASED UPON INFORMATION TAKEN FROM AS-BUILT DRAWINGS, FIELD INVESTIGATION, AND INFORMATION OBTAINED FROM SUBMITTAL DATA, ETC. THE PLANS DO NOT GUARANTEE ACCURACY BUT ARE ONLY AN INDICATION OF EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT CONDITIONS SUCH AS EQUIPMENT PLACEMENT, DUCTWORK (SIZE, ROUTING, AND ELEVATION), PIPING (SIZE, ROUTING, AND ELEVATION), ETC. THE DRAWINGS ARE INTENDED TO PROVIDE THE CONTRACTOR AN INDICATION OF THE SYSTEM INSTALLED IN THE FACILITY TO DATE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ADJUSTMENTS TO THE DRAWING INFORMATION AS REQUIRED TO MATCH EXISTING FIELD CONDITIONS.
2. THE CONTRACTOR SHALL INSTALL THE NEW EQUIPMENT, DUCTWORK, AND PIPING AROUND ALL EXISTING OBSTACLES INCLUDING: ELECTRICAL CONDUIT, DOMESTIC WATER PIPING, WASTE AND VENT PIPING, ACID WASTE AND VENT PIPING, CHILLED AND HEATING WATER PIPING, AND FIRE SPRINKLER PIPING. PROVIDE OFFSETS TO AVOID RELOCATION OF OTHER UTILITIES. RELOCATE UTILITIES IF THEY ARE IN CONFLICT WITH THE MECHANICAL SYSTEM INSTALLATION, CAUSE DEVIATIONS IN THE DESIGN INTENT, UNSATISFACTORY OPERATION, NOISY CONDITIONS, OR INTERFERE WITH MAINTENANCE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY UTILITY RELOCATION WITH THE APPROPRIATE SUBCONTRACTOR.
3. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE HEATING, VENTILATING AND AIR CONDITIONING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON AND TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.
4. PROVIDE ALL PERMITS AND FEES AS REQUIRED FOR THE MECHANICAL WORK.
5. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT BEFORE BIDDING.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC), 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2012 INTERNATIONAL FIRE CODE (IFC), 2012 UNIFORM MECHANICAL CODE (UMC), 2012 UNIFORM PLUMBING CODE (UPC), 2011 NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, AND ALL OTHER APPLICABLE CODES, RULES, AND LOCAL REQUIREMENTS.
7. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR.
8. ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED AT THE JOBSITE BEFORE FABRICATION AND/OR INSTALLATION OF THE EQUIPMENT.
9. PROVIDE AND INSTALL ALL EQUIPMENT, DUCT, PIPING, AND CONTROLS AS SHOWN ON THE DRAWINGS.

B. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNERS REPRESENTATIVE.

C. DEMOLITION

1. DEMOLITION WORK SHALL NOT CREATE ANY DUST PROBLEMS IN THE WORKING SPACES.
2. ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO THE OWNER AND SHALL BE DELIVERED TO OWNER ON SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

D. CUTTING, PATCHING, AND PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.
3. WATER WILL NOT BE USED FOR CONCRETE CUTTING WITHOUT THE DIRECT SUPERVISION OF THE OWNERS ENGINEERING REPRESENTATIVE.
4. WALL SURFACES SHALL BE PRIMED AND PAINTED. PAINT TYPE AND COLOR SHALL BE AS SPECIFIED BY THE OWNERS REPRESENTATIVE.

E. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND EQUIPMENT BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

F. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

MECHANICAL ABBREVIATIONS

ACFM	ACTUAL CUBIC FEET PER MINUTE
AF	AIR FILTER
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
APD	AIR PRESSURE DROP
BFF/BFG	BELOW FINISHED FLOOR/GRADE
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
(D)	DEMOLISH
DB,WB	DRY BULB, WET BULB TEMPERATURE
dBA	DECIBELS, A-WEIGHTED MEASUREMENT
DG	DOOR GRILLE
DIA	DIAMETER
(E)	EXISTING
FPM	FEET PER MINUTE
FT	FOOT
FT ²	SQUARE FOOT
FT ³	CUBIC FOOT
HZ	HERTZ
IN	INCH
IN ²	SQUARE INCH
IN ³	CUBIC INCH
KW	KILOWATT
LBS	POUNDS
(N)	NEW
R	REGISTER
TG	TRANSFER GRILLE
TYP	TYPICAL

MECHANICAL SYMBOL LEGEND

SYMBOL	ABBR.	DESCRIPTION
	SA	SUPPLY AIR
	RA	RETURN AIR
	EA	EXHAUST AIR
	OA	OUTSIDE AIR
		POSITIVE PRESSURE DUCT SECTION - FIRST SIZE IS TOP
		NEGATIVE PRESSURE DUCT SECTION - FIRST SIZE IS TOP
		DUCT SIZE - FIRST SIZE IS SIDE SHOWN
	(L)	LINED DUCT
		FLEXIBLE DUCT CONNECTOR
	MVD	MANUAL VOLUME DAMPER
	OBD	OPPOSED BLADE DAMPER
	PBD	PARALLEL BLADE DAMPER
	(M)	MOTORIZED ACTUATOR
	(B)	SPRING WOUND BYPASS TIMER @ 48" AFF
	(T)	TSTAT
	(S)	SD
	CD	CEILING DIFFUSER
	SW	SIDE WALL DIFFUSER
	EG/RG	EXHAUST/RETURN GRILLE
	BFP	BACKFLOW PREVENTER
	BV	BALL VALVE
	BFV	BUTTERFLY VALVE
	CV	CHECK VALVE
	FCV	FLOW CONTROL (BALANCE) VALVE
	GV	GATE VALVE
	PRV	PRESSURE REDUCING VALVE
	D	EQUIPMENT OR CONDENSATE DRAIN PIPING
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT

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PROJECT NO: 119918

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Project

**Douglas County
Community Center
Rock Climbing Wall**
1329 Waterloo Lane,
Gardenville, NV 89410

Job No: 108916

Owner

Douglas County

BID ISSUE

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**MECHANICAL
ABBREVIATIONS, AND
SYMBOL LEGEND**

Date: 10/19/2018

Sheet No:

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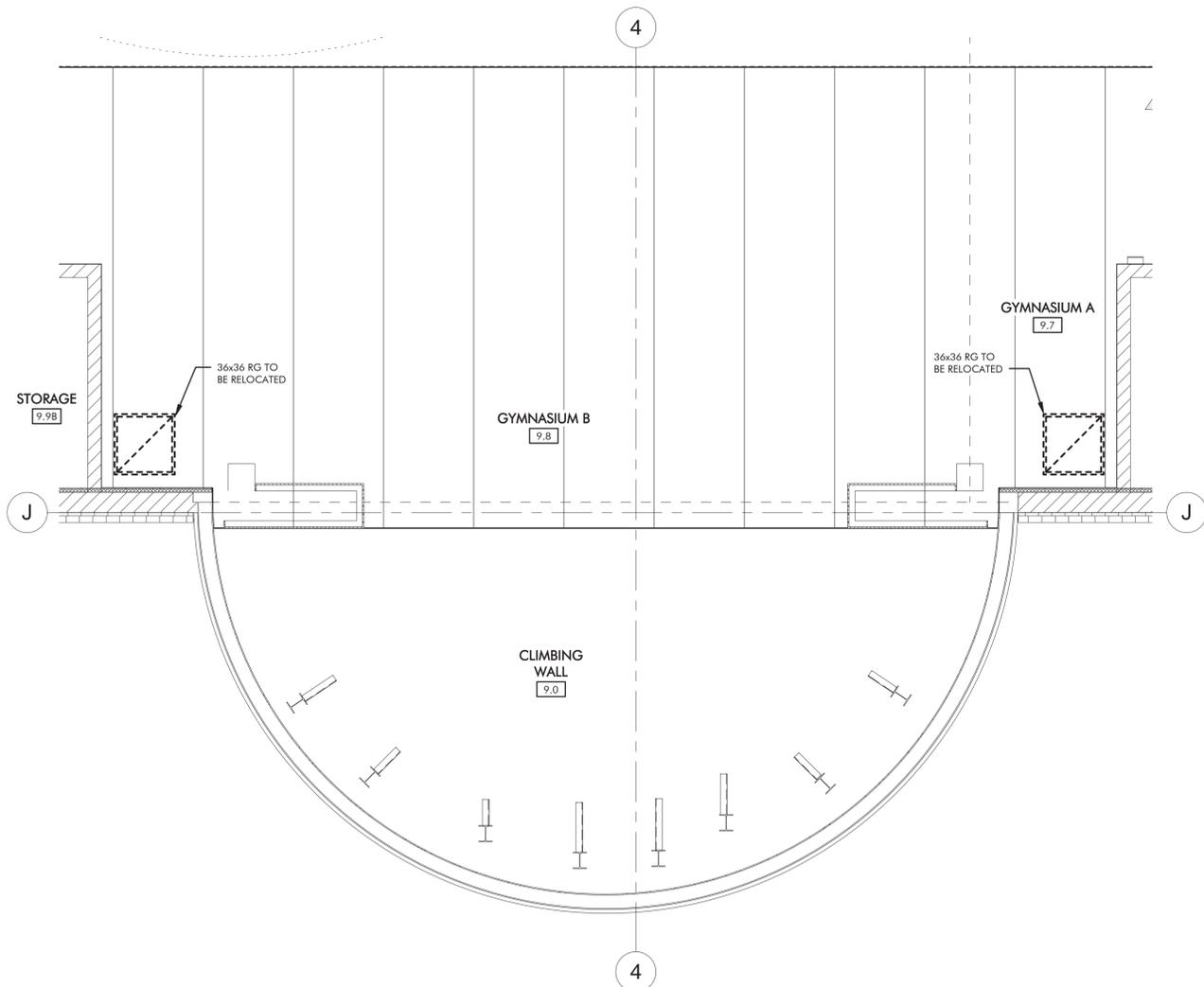
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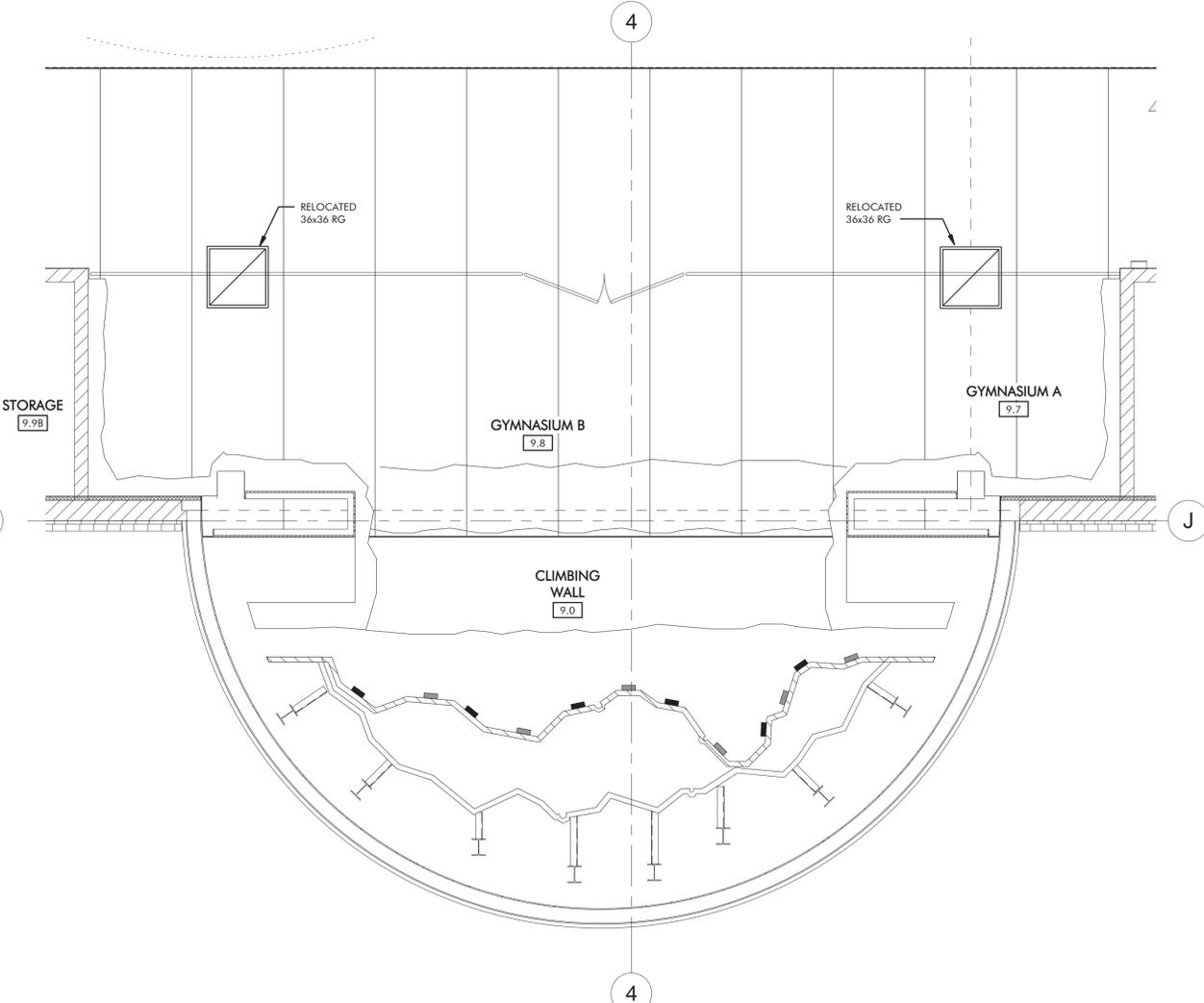
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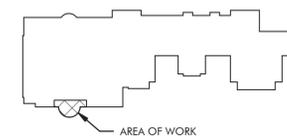
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A ENLARGED DEMOLITION MAIN LEVEL FLOOR PLAN
 M2.01 SCALE: 1/4" = 1'-0"



B ENLARGED MAIN LEVEL FLOOR PLAN
 M2.01 SCALE: 1/4" = 1'-0"



KEY PLAN

BID ISSUE

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REV	DESCRIPTION

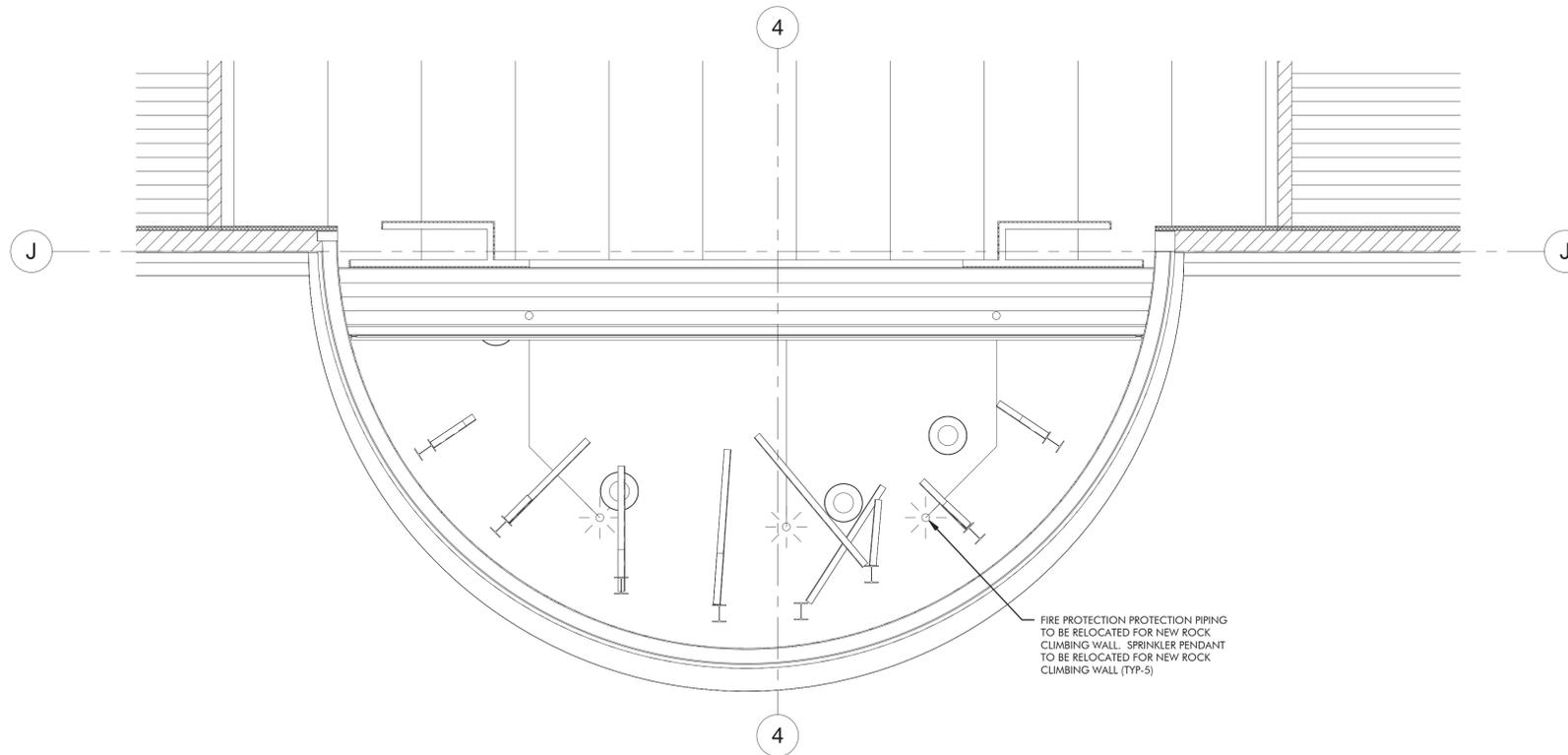
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**MECHANICAL MAIN
 LEVEL & UPPER LEVEL
 DEMOLITION AND NEW
 FLOOR PLANS**

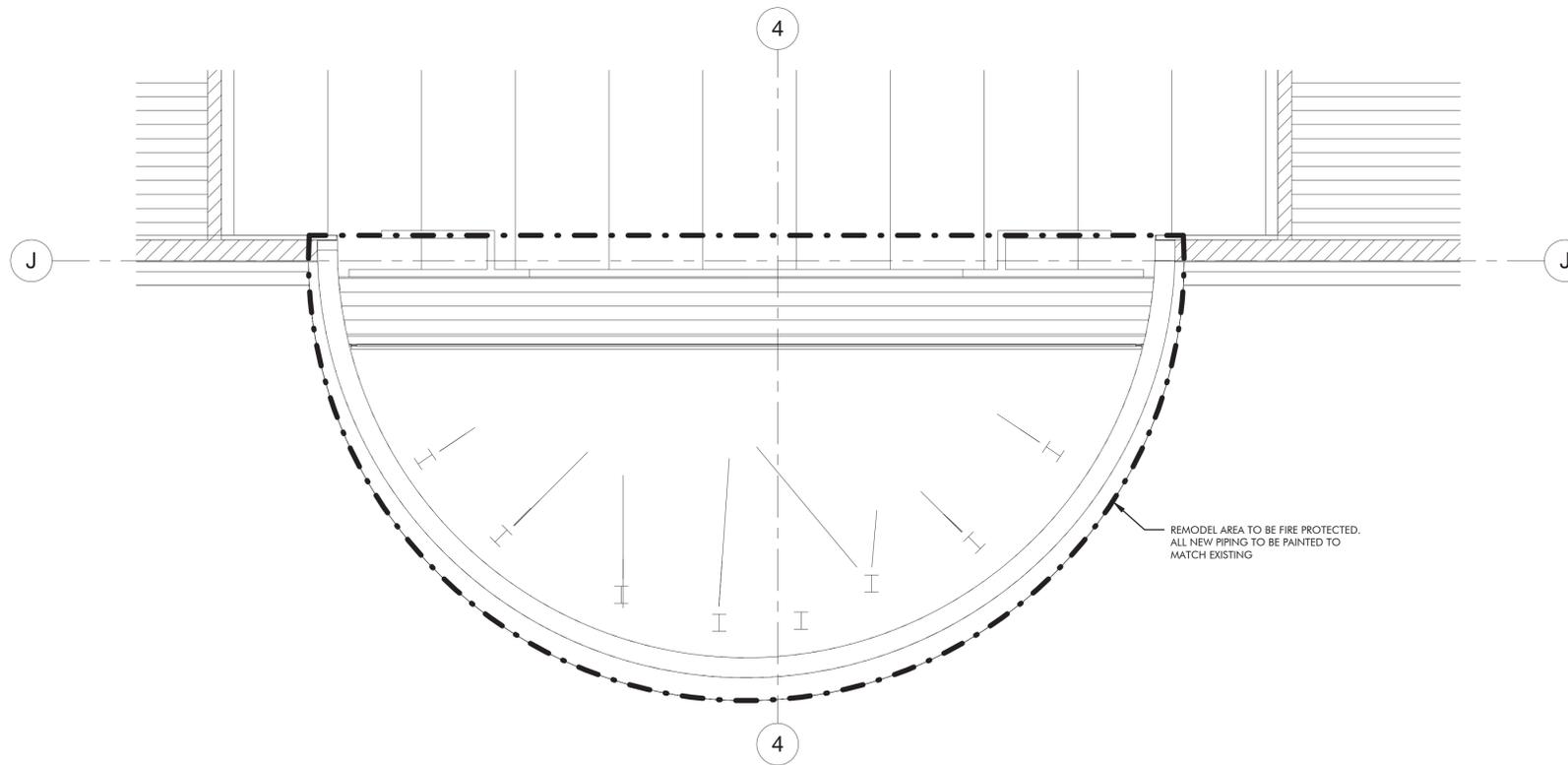
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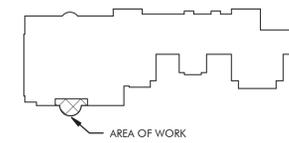
M2.01



A FIRE PROTECTION DEMOLITION UPPER LEVEL FLOOR PLAN
 FP2.01 SCALE: 1/4" = 1'-0"



B FIRE PROTECTION UPPER LEVEL FLOOR PLAN
 FP2.01 SCALE: 1/4" = 1'-0"



KEY PLAN

FIRE PROTECTION SPECIFICATIONS

- THIS IS A PERFORMANCE SPECIFICATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PERMITS, FEES, DESIGN, MATERIAL, FABRICATION, STORAGE, INSTALLATION AND TESTING FOR A COMPLETE AND OPERABLE FIRE SPRINKLER SYSTEM.
- IT IS THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DOCUMENTS INCLUDING (BUT NOT LIMITED TO) ARCHITECTURAL, CIVIL, ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL DISCIPLINES WHEN DESIGNING THE FIRE PROTECTION SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL ACKNOWLEDGE ON THEIR SHOP DRAWINGS THAT THEY HAVE REVIEWED ALL DESIGN DOCUMENTS AS PART OF THE PREPARATION OF THE FIRE PROTECTION SYSTEM DESIGN.
- SYSTEM SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 24, THE NATIONAL ELECTRICAL CODE (NEC), AS WELL AS LOCAL BUILDING OFFICIALS, WATER DEPARTMENT AND STATE FIRE MARSHAL REQUIREMENTS AS APPLICABLE.
- SUBMIT COMPLETE SET OF SHOP DRAWINGS INCLUDING NECESSARY CALCULATIONS AND CATALOG CUTS OF MATERIALS TO THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION FOR APPROVAL. OBTAIN APPROVAL PRIOR TO INSTALLATION. DRAWINGS AND CALCULATIONS SHALL BE CERTIFIED BY A MINIMUM NATIONAL INSTITUTE FOR CERTIFICATION ENGINEERING TECHNOLOGY LEVEL III TECHNICIAN.
- SYSTEM SHALL BE HYDRAULICALLY DESIGNED. CONTRACTOR SHALL OBTAIN LATEST WATER SUPPLY INFORMATION AND DETERMINE SPRINKLER HEAD SPACING AND DESIGN DENSITIES FOR HYDRAULIC CALCULATIONS. REQUIRED SYSTEM PRESSURE SHALL BE A MINIMUM OF 10% BELOW THE AVAILABLE PRESSURE AT SYSTEM DEMAND.
- PLANS FOR INSTALLATION OF ANY FIRE ALARM, OR FIRE SPRINKLER SYSTEM SHALL BE SUBMITTED UNDER SEPARATE PERMIT BY CONTRACTORS LICENSED BY THE NEVADA STATE FIRE MARSHAL'S OFFICE TO DO THIS WORK. A SEPARATE PERMIT IS REQUIRED FOR EACH TYPE OF SYSTEM.
- CONTRACTOR SHALL HOLD A VALID NEVADA CONTRACTORS LICENSE FOR THE TYPE OF WORK BEING PERFORMED.
- ALL PIPING SHALL BE SUSPENDED AND BRACED IN STRICT ACCORDANCE WITH NFPA 13, 2012 IBC, AND ASCE 7.
- CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID, IN ORDER TO DETERMINE THE EXACT SCOPE OF WORK.
- THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF ALL DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF WORK.
- AFTER SYSTEM IS COMPLETELY INSTALLED, IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS, NFPA 13, AND THE REQUIREMENTS OF THE APPLICABLE NFPA BULLETINS.
- ALL SPRINKLER HEADS TO BE SEMI-RECESS TYPE WITH ESCUTCHEON. COORDINATE WITH ARCHITECT ON HEAD AND ESCUTCHEON COLORS. ALL PIPING IS TO BE CONCEALED ABOVE FINISH CEILING AREAS. SPRINKLER HEADS SHALL BE ALIGNED WITH LIGHTS, DIFFUSERS, AND OTHER EQUIPMENT SO AS TO PRESENT A NEAT AND SYMMETRIC APPEARANCE. SPRINKLER HEADS TO BE CENTERED IN CEILING TILE.
- IN LIEU OF RIGID PIPE OFFSETS OR RETURN BENDS FOR SPRINKLER DROPS, MULTIPLE-USE FLEXIBLE STAINLESS STEEL SPRINKLER DROP SYSTEM MAY BE USED TO LOCATE SPRINKLERS AS REQUIRED BY FINAL FINISHED CEILING TILES AND WALLS. THE DROP SYSTEM SHALL CONSIST OF A BRAIDED OR UNBRAIDED (CORRUGATED) TYPE 304 STAINLESS STEEL FLEXIBLE TUBE, A ZINC PLATED STEEL 1" NPT MALE THREADED NIPPLE FOR CONNECTION TO BRANCHLINE PIPING, AND A ZINC PLATED STEEL REDUCER WITH A 1/2" OR 3/4" NPT FEMALE THREAD FOR CONNECTION TO THE SPRINKLER HEAD. THE BRAIDED DROP SYSTEM SHALL BE FM APPROVED FOR SPRINKLER SERVICES TO 200 PSI AND CAN BE INSTALLED WITHOUT THE USE OF TOOLS, AND THE CORRUGATED SYSTEM SHALL BE UL LISTED FOR SPRINKLER SERVICES TO 175 PSI. ALL HOSES SHALL BE FACTORY-PRESSURE TESTED TO 400 PSI.



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REV	DATE	DESCRIPTION

Sheet Title

**FIRE PROTECTION
 DEMOLITION AND NEW
 UPPER LEVEL FLOOR
 PLAN**

Date: 10/19/2018

Sheet No:

FP2.01

FIRE ALARM SYSTEM LEGEND			
	FIRE ALARM CONTROL PANEL (FACP) OR REMOTE ANNUNCIATOR PANEL (FAAP): FLUSH MOUNTED, 60" TO CL OF LCD DISPLAY		HORN: WALL MOUNT 90" AFF TO TOP OF DEVICE AND NOT LESS THAN 6" BELOW CEILING
	FIRE ALARM CONTROL PANEL (FACP) / REMOTE ANNUNCIATOR PANEL (FAAP) / VOICE EVAC PANEL (FAVP): SURFACE MOUNTED, 60" TO CL OF LCD DISPLAY.		HORN: CEILING MOUNT
	BOOSTER POWER SUPPLY (BPS): SURFACE MOUNTED		HORN/STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS NOTE CANDELA
	MANUAL PULL STATION: MOUNT AT 48" TO CENTER LINE UNO		HORN/STROBE: CEILING MOUNT NOTE CANDELA
	SMOKE DETECTOR: (P) PHOTOELECTRIC, (I) IONIZATION, (M) MULTI TECHNOLOGY, (H) HORN (LO) LOCAL-ONLY 120V W/INTEGRAL BATTERY: (UF) UNDERFLOOR CEILING MOUNT / WALL MOUNT		SPEAKER: WALL MOUNT 90" AFF TO TOP OF DEVICE AND NOT LESS THAN 6" BELOW CEILING
	LOCAL-ONLY SMOKE DETECTOR: 120V, INTEGRAL BATTERY, WITH HORN & STROBE, CEILING MOUNT OR WALL MOUNT AT 12" BELOW CEILING.		SPEAKER: CEILING MOUNT
	BEAM DETECTOR: (BT) TRANSMITTER, (BR) RECEIVER WALL MOUNT PER MANUFACTURERS SPECIFICATIONS		SPEAKER/STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS NOTE CANDELA
	HEAT DETECTOR: (ROR) RATE OF RISE, (F) FIXED, TEMP 135° OR 190° CEILING MOUNT / WALL MOUNT		SPEAKER/STROBE: CEILING MOUNT NOTE CANDELA
	MONITOR MODULE: AT OR NEAR DEVICE		STROBE: WALL MOUNT 80" AFF TO BOTTOM OF LENS NOTE CANDELA
	CONTROL RELAY MODULE: AT OR NEAR DEVICE		STROBE: CEILING MOUNT NOTE CANDELA
	ISOLATOR MODULE: AT OR NEAR DEVICE		FIRE BELL: MOUNTED PER LOCAL CODE
	MULTI-VOLTAGE RELAY: AT OR NEAR DEVICE		FIRE ALARM JUNCTION BOX, WIRED COVER & FA CKT LABEL
	SINGLE INPUT MODULE: AT OR NEAR DEVICE		HOOD FIRE SUPPRESSION SYSTEM CONNECTION
	DUAL INPUT MODULE: AT OR NEAR DEVICE		REMOTE ALARM LAMP
	MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED MOUNTING PER PLANS		FIRE SPRINKLER FLOW SWITCH
	FIREMAN'S PHONE: MOUNTED AT +48" TO TOP UNO, JACK OR HANDSET		FIRE SPRINKLER TAMPER SWITCH UNO
	END OF LINE RESISTOR		FIRE/SMOKE DAMPER: COORDINATE INSTALLATION AND MOTOR DE-ENERGIZE PROCEDURES WITH MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY, POWER, AND CONTROL WIRE AS NECESSARY.
	DUCT SMOKE DETECTOR: 1 EA AT SUPPLY (2000 CFM), 1 EA RETURN & SUPPLY (15,000 CFM)		

- NOTES:**
- INSTALL AN APPROVED MANUAL, AUTOMATIC, OR MANUAL AND AUTOMATIC FIRE ALARM SYSTEM IN ACCORDANCE WITH THE PROVISIONS OF IFC, IBC, NFPA-70, NFPA-72, NFPA-101, NEC 760, ADA AND LOCAL AHJ REQUIREMENTS.
 - FIRE ALARM SYSTEM SHALL BE CLASS 1 CIRCUITING AS REQUIRED BY LOCAL AHJ AND NFPA-70.
 - MANUAL PULL STATIONS SHALL BE MOUNTED 48" TO CENTER OF DEVICE.
 - DETECTORS ARE NOT TO BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN 3' FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING IN ACCORDANCE WITH NFPA-72, 17.7.5.6.6.1, (1-3), (2010), WHEN REQUIRED.
 - DETECTOR LOCATION FOR DOOR HOLD ACTIVATION SHALL BE PER NFPA-72, 17.7.5.6.6.1, (1-3), (2010), WHEN REQUIRED.
 - AREA SMOKE DETECTION AND DUCT DETECTORS SHALL SHUT DOWN ALL MECHANICAL UNITS.
 - PLANS DO NOT INDICATE ALL DEVICES, CONNECTIONS OR CIRCUITING REQUIRED FOR A COMPLETE SYSTEM.
 - BATTERY BACKUP SYSTEM SHALL BE CALCULATED TO PROVIDE 24 HOURS OF STANDBY AND A MINIMUM OF 5 MINUTES OF ALARM OR PER AHJ REQUIREMENTS.
 - CONNECT TO THE TELEPHONE SYSTEM WITH DIAL OUT BY POINT (CITY OF RENO JURISDICTION ONLY). IF A SYSTEM IS SELECTED THAT DOES NOT HAVE DIAL OUT BY POINT, THEN THE SUB-CONTRACTOR SHALL PROVIDE A REMOTE ANNUNCIATOR AT ENTRANCE DESIGNATED BY LOCAL AHJ.
 - INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE LOCAL AHJ AND THE ENGINEER OF RECORD.
 - UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A FINAL INSPECTION AND TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL AHJ. A COPY OF THE RECORD OF COMPLETION AND CERTIFICATE OF OCCUPANCY SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.
 - ALL FIRE ALARM WIRING TO BE RUN IN 3/4" CONDUIT.
 - ALL FIRE ALARM CONDUIT SHALL BE MANUFACTURER'S RED CONDUIT, (CONDUIT SHALL NOT BE SPRAY PAINTED).

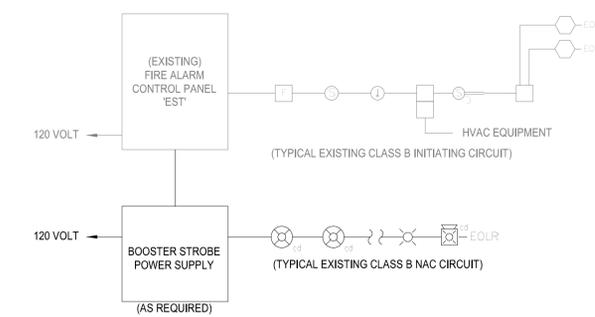
ELECTRICAL LEGEND			
	PANELBOARD: SURFACE MOUNTED		GROUND FAULT INTERRUPTER DEVICE
	PANELBOARD: FLUSH MOUNTED		METERING DEVICE
	SWITCHBOARD OR DISTRIBUTION PANEL		REMOTE METER
	TRANSFORMER		SHUNT TRIP DEVICE
	PULLBOX / VAULT		TRANSFORMER
	MOTOR STARTER		CURRENT TRANSFORMER
	COMBINATION MOTOR STARTER		GENERATOR
	COMBINATION MOTOR STARTER PROVIDED BY OTHERS		MOTOR - # INDICATES HP
	DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)		INTERRUPTER SWITCH
	DISCONNECT SWITCH - NON-FUSIBLE		GROUND FAULT RELAY W/ CT OR SENSOR
	DISCONNECT SWITCH PROVIDED BY OTHERS		FUSE
	VARIABLE FREQUENCY DRIVE		CIRCUIT BREAKER
	VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS		DRAWOUT CIRCUIT BREAKER
	ENCLOSED CIRCUIT BREAKER		TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4 SURGE PROTECTION DEVICE
	GROUND ROD		THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)
	SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON		JUNCTION BOX (SIZE AS REQUIRED UNO)
	REMOTE METER		SHEET NOTE DESIGNATION
	LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS) WALL MOUNTED FIXTURE		FIXTURE DESIGNATION: F1-TYPE (SEE FIXTURE SCH.)
	RECESSED DOWNLIGHT		REVISION DELTA: NUMBER REPRESENTS REVISION
	SURFACE LUMINAIRE		FEEDER DESIGNATION
	POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING)		EQUIPMENT CONNECTION
	FLUORESCENT STRIP FIXTURE		CONDUIT/RACEWAY IN WALL OR ABOVE CEILING
	BOLLARD		CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR
	RECESSED DOWNLIGHT (WALL WASH)		CONDUIT/RACEWAY UP
	TRACK LIGHTING		CONDUIT/RACEWAY DOWN
	EMERGENCY LIGHTING UNIT		BREAK OR RUN CONTINUES
	EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION EMERGENCY FIXTURE		OVERHEAD SERVICE
	SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)		PRIMARY
	DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)		SECONDARY
	DUPLEX RECEPTACLE: HALF SWITCHED		COMMUNICATIONS OR SIGNAL
	DUPLEX RECEPTACLE: FLOOR MOUNTED		TELEPHONE
	QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)		TELEVISION
	QUAD RECEPTACLE: FLOOR MOUNTED		LOW VOLTAGE AND/OR CONTROL WIRING
	ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) - 20A, 125V, NEMA 5-20IG, +18" AFF (UNO) DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI + 18" AFF (UNO) DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT)		EMERGENCY CIRCUIT
	SPECIAL PURPOSE RECEPT.: SEE DWGS FOR NEMA CONFIG.		CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)
	DUPLEX RECEPTACLE: CEILING MOUNTED		CONDUIT/RACEWAY SLEEVE
	MULTI-OUTLET ASSEMBLY: SPACING PER DWGS		TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED.
	DATA / VOICE OUTLET: 18" AFF (UNO) - 1 VOICE, 1 DATA JACK, 2 BLANKS		ISOLATED GROUNDING CONDUCTOR NEUTRAL CONDUCTOR PHASE CONDUCTOR(S)
	DATA / VOICE OUTLET: FLOOR MOUNTED		BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR
	DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT)		HOMERUN TO PANELBOARD OR DEVICE
	MULTI-OUTLET ASSEMBLY: SPACING PER DWGS		HOMERUN CIRCUIT DESIGNATION
	TELEPHONE OUTLET: 18" AFF (UNO)		GROUNDING CONDUCTOR NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS) PHASE CONDUCTOR(S) PANELBOARD DESIGNATION
	DATA OUTLET: 18" AFF (UNO)		HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)
	SPEAKER		GROUNDING CONDUCTOR PHASE CONDUCTOR(S) PANELBOARD DESIGNATION
	TELEVISION OUTLET: 18" AFF (UNO)		NORMALLY OPEN (NO) CONTACT
	TELEPHONE TERMINAL BOARD (TTB)		NORMALLY CLOSED (NC) CONTACT
	VOLUME CONTROL		COIL - VOLTAGE PER CONTROL DIAGRAMS
	GROUNDING BAR		PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW)
	SINGLE POLE SWITCH 48" AFF (UNO)		PILOT LIGHT (LED) NON PUSH-TO-TEST
	THREE WAY SWITCH 48" AFF (UNO)		THERMAL OVERLOAD
	FOUR WAY SWITCH 48" AFF (UNO)		MAGNETIC OVERLOAD
	KEY OPERATED SWITCH 48" AFF (UNO)		PUSH BUTTON NORMALLY OPEN (NO)
	SWITCH WITH LIGHTED HANDLE		PUSH BUTTON NORMALLY CLOSED (NC)
	MANUAL MOTOR STARTER		HAND-OFF-AUTO (HOA) SELECTOR SWITCH
	SWITCH WITH PILOT LIGHT 48" AFF (UNO)		LIMIT SWITCH NORMALLY OPEN (NO)
	TIME WALL SWITCH 48" AFF (UNO)		LIMIT SWITCH NORMALLY CLOSED (NC)
	DIMMER OPERATED SWITCH 48" AFF (UNO)		PUSH BUTTON ILLUMINATED (LED)
	OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO)		
	OCCUPANCY SENSOR - CEILING MOUNTED, ARROWS INDICATE COVERAGE, DIRECTION & PATTERN. PROVIDE WITH POWER PACK PER CONTROL SWITCH REQUIREMENTS.		
	CONTACTOR OR RELAY		
	PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)		
	TIMECLOCK		
	L = LIGHTING		M = MOTOR
	R = RECEPTACLES		K = KITCHEN EQUIP
	E = EQUIPMENT		H = ELECTRIC HEAT
	M = MOTOR		

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.

M1= LARGEST MOTOR
K = KITCHEN EQUIP
H = ELECTRIC HEAT

ONLINE DIAGRAM NOTES

- ONLINE DIAGRAM IS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE A ONLINE DIAGRAM THAT SHOWS ALL DEVICES, NEW AND EXISTING, AS THEY ARE CONNECTED ON THE FLOOR PLAN.



1 FIRE ALARM PARTIAL ONLINE DIAGRAM
E0.1 Not To Scale

DRAWING SCHEDULE

SHEET	DESCRIPTION	BID ISSUE
E0.1	LEGENDS & DRAWING SCHEDULE	●
E0.2	FIXTURE SCHEDULE & IECC CALCULATIONS	●
E0.3	ELECTRICAL SPECIFICATIONS	●
E0.4	PANEL SCHEDULES	●
E1.1	OVERALL ELECTRICAL PLAN	●
E1.2	ENLARGED DEMOLITION POWER PLANS	●
E1.3	ENLARGED DEMOLITION LIGHTING PLANS	●
E1.4	ENLARGED NEW WORK LIGHTING PLANS	●
E1.5	CLIMBING WALL NEW WORK LIGHTING SECTION	●
TOTAL SHEETS IN ISSUE:		9



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Consultant

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 5195 DTC Parkway, Suite 200 | Greenwood Village, Colorado 80111 | 720.481.3290
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PLEASE RECYCLE

Project
Douglas County Community & Senior Center
 Waterloo Lane, Gardnerville, NV 89410

Job No: 12-043
 Owner
Douglas County

BID ISSUE

REVISIONS		
REV	DATE	DESCRIPTION

Sheet Title
LEGENDS & DRAWING SCHEDULE

Date: OCTOBER 19, 2018
 Sheet No:

E0.1



COMcheck Software Version 4.0.8.2

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: Douglas County Community Center
 Project Type: New Construction

Construction Site: 1329 Waterloo Lane, Gardnerville, NV 89410
 Owner/Agent: Douglas County
 Designer/Contractor: PK Electrical, Inc., 681 Sierra Rose Drive, Suite B, Reno, NV 89511, 775-826-9010

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-CLIMBING WALL AREA (Gymnasium/fitness center:Playing area)	1270	1.40	1778
Total Allowed Watts =			1778

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-CLIMBING WALL AREA (Gymnasium/fitness center:Playing area)				
LED 1: L1: SURFACE LINEAR LED Linear 33W:	1	1	277	277
LED 3: L8: EXISTING CYLINDER PENDANT: LED Other Fixture Unit 80W:	1	5	62	310
Incandescent 1: F13: EXISTING RECESSED DOWNLIGHT: Incandescent 60W:	1	9	60	540
Total Proposed Watts =				1127

Interior Lighting PASSES: Design 37% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.8.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Douglas County Community Center Report date: 08/21/18
 Data filename: K:\2018\18002 - Douglas County Community Center Climbing Wall\02_Design\B_Lighting\02_Lighting Calc\18002_COMCHECK.cck Page 1 of 6

LIGHTING FIXTURE SCHEDULE

PK ELECTRICAL, INC. @ 2018

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES, DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.

SUBSTITUTION DEFINITIONS

- OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.
- NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.
- SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.

TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER
L1X		LED, 28-FOOT LINEAR CEILING MOUNTED FIXTURE PRODUCING 694 LUMENS PER FOOT, 85 DEGREE WALL WASH DISTRIBUTION, BLACK FINISH, HIGH IMPACT FROSTED ACRYLIC LENS, CONTINUOUS RUN WIRING, VERIFY RUN LENGTH ON PLANS. PROVIDE WITH REMOTE DRIVER AND EMERGENCY BATTERY BACKUP IN ACCESSIBLE AREA BEHIND CLIMBING WALL. LAMP: LED, 4000K VOLTAGE: 277V MANUFACTURER: VODE #707-ZL-SL-28/00-ZZ-C-RP-AE-2-ZZ-HO-40-A1-0-BL
10W/FT		SUBSTITUTIONS: <input type="radio"/> OR EQUAL <input checked="" type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL



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Consultant



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 Greenwood Village, Colorado 80111 | 720.481.3290
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18002

PLEASE RECYCLE

Project

**Douglas County
 Community & Senior
 Center**
 Waterloo Lane,
 Gardnerville, NV 89410

Job No: 12-043

Owner

Douglas County

BID ISSUE

REVISIONS	
REV	DESCRIPTION

Sheet Title

FIXTURE SCHEDULE & IECC CALCULATIONS

Date: OCTOBER 19, 2018

Sheet No:

E0.2



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Consultant



Project

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Job No: 12-043

Owner

Douglas County

BID ISSUE

REVISIONS	
REV	DESCRIPTION

Sheet Title

PANEL SCHEDULES

Date: OCTOBER 19, 2018

Sheet No:

E0.4

Branch Panel: (E) 'HA1'

Location: DIST BRD HA
Supply From: Surface
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35K
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	(E) Back of House	20 A	1	0 VA	0 VA			1	20 A (E) Stair B	2	
3	(E) Office Area	20 A	1		277 VA	0 VA		1	20 A (E) Back of House South	4	
5	(E) Entry Lobby, Receipt	20 A	1			1108...	0 VA	1	20 A (E) Racquetball 9.6B	6	
7	(E) Game Lounge	20 A	1	960 VA	0 VA			1	20 A (E) Racquetball 9.6A	8	
9	(E) Restrooms	20 A	1		6491...	0 VA		1	20 A (E) Back of House Upper	10	
11	(E) Gym Lower Level	20 A	1			1920...	0 VA	1	20 A (E) Other	12	
13	(E) Site Lighting SE (1)	20 A	1	250 VA	0 VA			1	20 A (E) Gym	14	
15	(E) Site Lighting NE (1)	20 A	1		1500...	0 VA		1	20 A (E) Gym	16	
17	(E) Site Lighting Parking Center (1)	20 A	1			1500...	0 VA	1	20 A (E) Gym	18	
19	(E) Site Lighting Parking North (1)	20 A	1	1250...	0 VA			1	20 A (E) Gym	20	
21	(E) Building Signage Lights	20 A	1		0 VA	0 VA		1	20 A (E) Gym	22	
23	(E) Climbing Wall Lights	20 A	1			294 VA	0 VA	1	20 A (E) Gym	24	
25	(E) Spare	20 A	1	0 VA	0 VA			1	20 A (E) Gym	26	
27	(E) Spare	20 A	1		0 VA	0 VA		1	20 A (E) 2nd Fir Exercise	28	
29	(E) Spare	20 A	1			0 VA	0 VA	1	20 A (E) 2nd Climbing Wall	30	
31	(E) Spare	20 A	1	0 VA	0 VA			1	20 A (E) Spare	32	
33	(E) Space	--	--		0 VA	0 VA		--	(E) Space	34	
35	(E) Space	--	--			0 VA	0 VA	--	(E) Space	36	
37	(E) Space	--	--	0 VA	0 VA			--	(E) Space	38	
39	(E) Space	--	--		0 VA	0 VA		--	(E) Space	40	
41	(E) Space	--	--			0 VA	0 VA	--	(E) Space	42	
				Total Load:	2460 VA	8206 VA					
				Total Amps:	9 A	31 A	18 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	3254 VA	100.00%	3254 VA	Total Conn. Load: 15368 VA Total Est. Demand: 10993 VA Total Conn.: 18 A Total Est. Demand: 13 A
Other	2500 VA	100.00%	2500 VA	

Notes: EXISTING PANELBOARD; EXISTING LOAD AND DESCRIPTIONS ARE SHOWN FOR REFERENCE ONLY.

Branch Panel: (E) 'LA4'

Location: ELECTRICAL ROOM 10.1A-3
Supply From: DIST BRD LA
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42K
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	(E) Receptacle Storage 9.9C, 9.9B	20 A	1	720 VA	1012...			1	20 A (E) Basketball Hoop	2	
3	(E) Receptacle Storage 9.9B	20 A	1		540 VA	1012...		1	20 A (E) Basketball Hoop	4	
5	(E) Receptacle Storage 9.9A, Gym Snow	20 A	1			540 VA	1012...	1	20 A (E) Basketball Hoop	6	
7	(E) Receptacle Storage 9.9A	20 A	1	720 VA	1012...			1	20 A (E) Basketball Hoop	8	
9	(E) Receptacle 2nd Floor Track	20 A	1		900 VA	1012...		1	20 A (E) Basketball Hoop	10	
11	(E) Receptacle Exercise Equip	20 A	1			0 VA	1012...	1	20 A (E) Basketball Hoop	12	
13	(E) Receptacle Exercise Equip	20 A	1	0 VA	1012...			1	20 A (E) Basketball Hoop	14	
15	(E) Receptacle Exercise Equip	20 A	1		0 VA	1012...		1	20 A (E) Basketball Hoop	16	
17	(E) Receptacle Exercise Equip	20 A	1		0 VA	1012...		1	20 A (E) Basketball Hoop	18	
19	(E) Receptacle Exercise Equip	20 A	1	0 VA	1012...			1	20 A (E) Basketball Hoop	20	
21	(E) Receptacle Exercise Equip	20 A	1		0 VA	1012...		1	20 A (E) Basketball Hoop	22	
23	(E) Receptacle Exercise Equip	20 A	1			0 VA	1012...	1	20 A (E) Basketball Hoop	24	
25	(E) Receptacle Exercise Equip	20 A	1	0 VA	0 VA			1	20 A (E) Scoreboard	26	
27	(E) Receptacle Roof	20 A	1		720 VA	0 VA		1	20 A (E) Scoreboard	28	
29	(E) Spare	0 A	1			0 VA	1012...	1	20 A (E) Court Divider	30	
31	(E) Spare	0 A	1	0 VA	1012...			1	20 A (E) Court Divider	32	
33	(E) Spare	0 A	1		0 VA	1012...		1	20 A (E) Court Divider	34	
35	(E) Spare	0 A	1			0 VA	1012...	1	20 A (E) Court Divider	36	
37	(E) Spare	20 A	1	0 VA	0 VA			1	20 A (E) Spare	38	
39	(E) Spare	20 A	1		0 VA	0 VA		1	20 A (E) Spare	40	
41	(E) Spare	20 A	1			0 VA	0 VA	1	20 A (E) Spare	42	
				Total Load:	6500 VA	7220 VA	6612 VA				
				Total Amps:	54 A	60 A	55 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	16192 VA	101.56%	16445 VA	Total Conn. Load: 20332 VA Total Est. Demand: 20585 VA Total Conn.: 56 A Total Est. Demand: 57 A
Other	0 VA	0.00%	0 VA	
Receptacle	3960 VA	100.00%	3960 VA	
Power	180 VA	100.00%	180 VA	

Notes: EXISTING PANELBOARD; EXISTING LOADS AND DESCRIPTIONS ARE SHOWN FOR REFERENCE ONLY.



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Job No: 12-043

Owner

Douglas County

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REVISIONS		
REV	DATE	DESCRIPTION

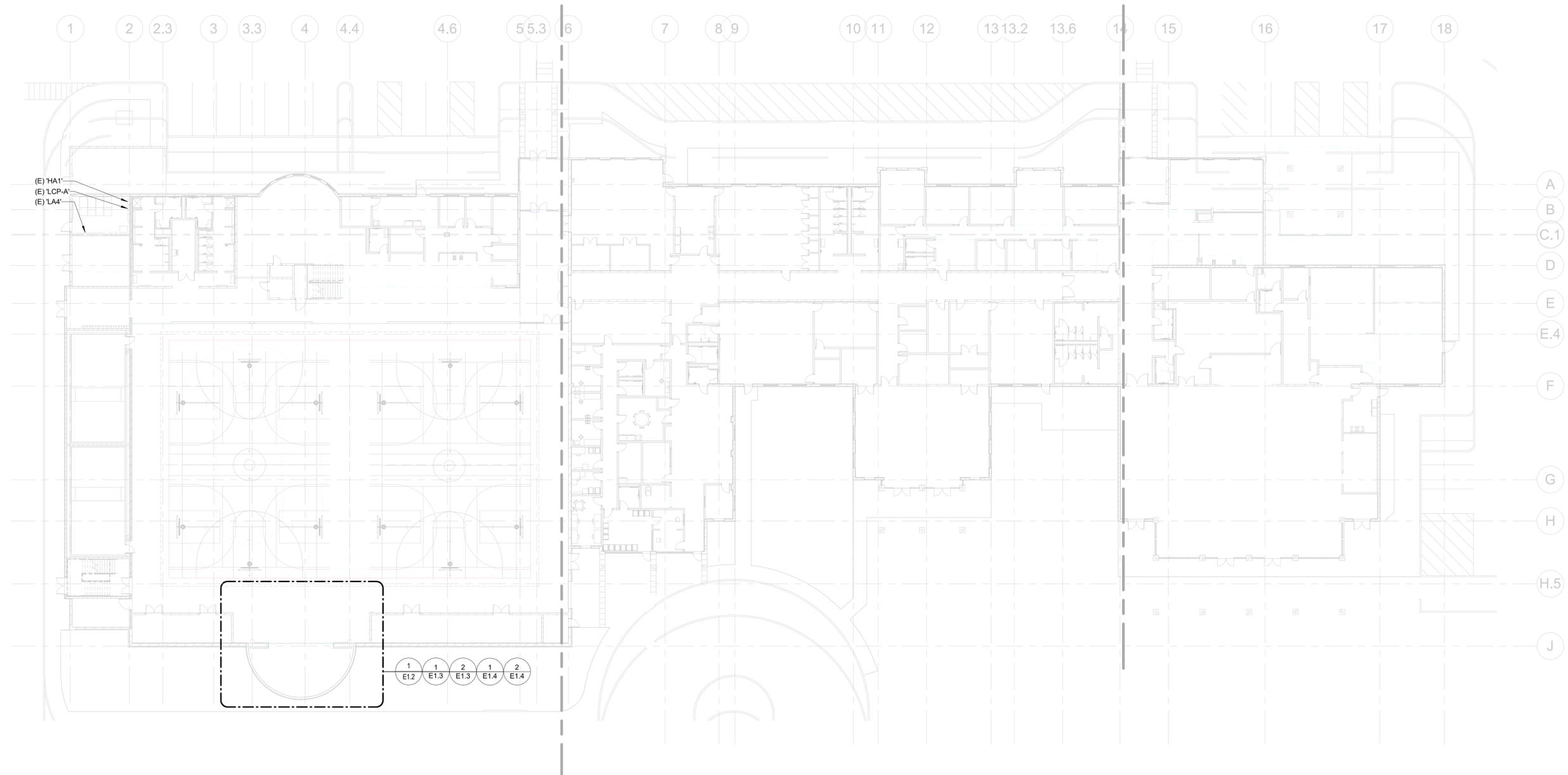
Sheet Title

**OVERALL ELECTRICAL
 PLAN**

Date: OCTOBER 19, 2018

Sheet No:

E1.1



1 OVERALL ELECTRICAL PLAN
 E1.1 Scale: 1" = 20'-0"



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Sheet Title

**ENLARGED
 DEMOLITION POWER
 PLANS**

Date: OCTOBER 19, 2018

Sheet No:

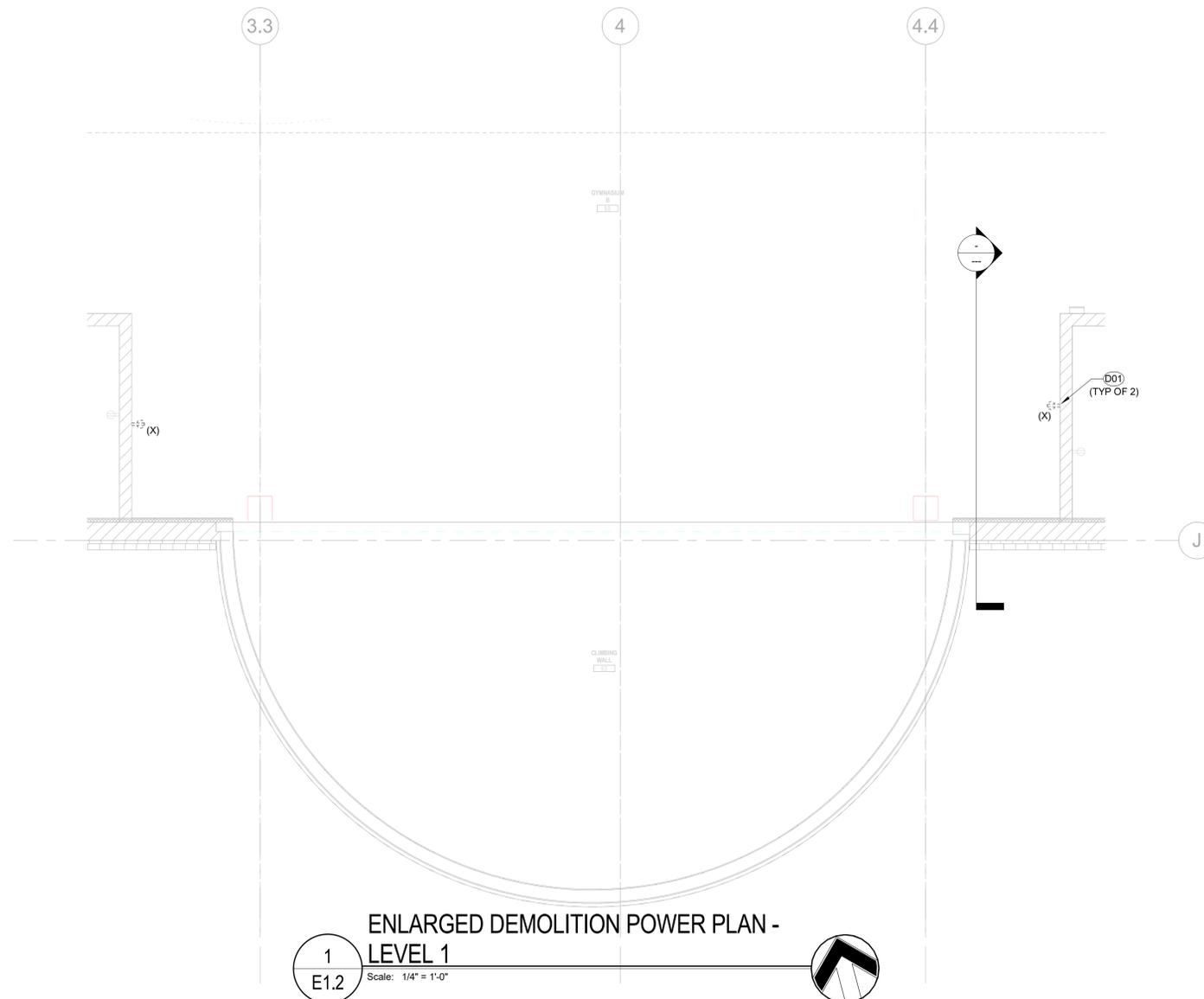
E1.2

GENERAL NOTES

- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (R) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
- THE CONTRACTOR SHALL SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES, MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.

SHEET NOTES

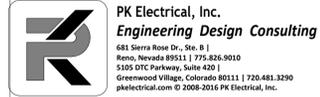
- D01 REMOVE EXISTING WIRING DEVICE AND ASSOCIATED CONDUITS, CONDUCTORS, AND SUPPORTS.





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Sheet Title

**ENLARGED
 DEMOLITION LIGHTING
 PLANS**

Date: OCTOBER 19, 2018

Sheet No:

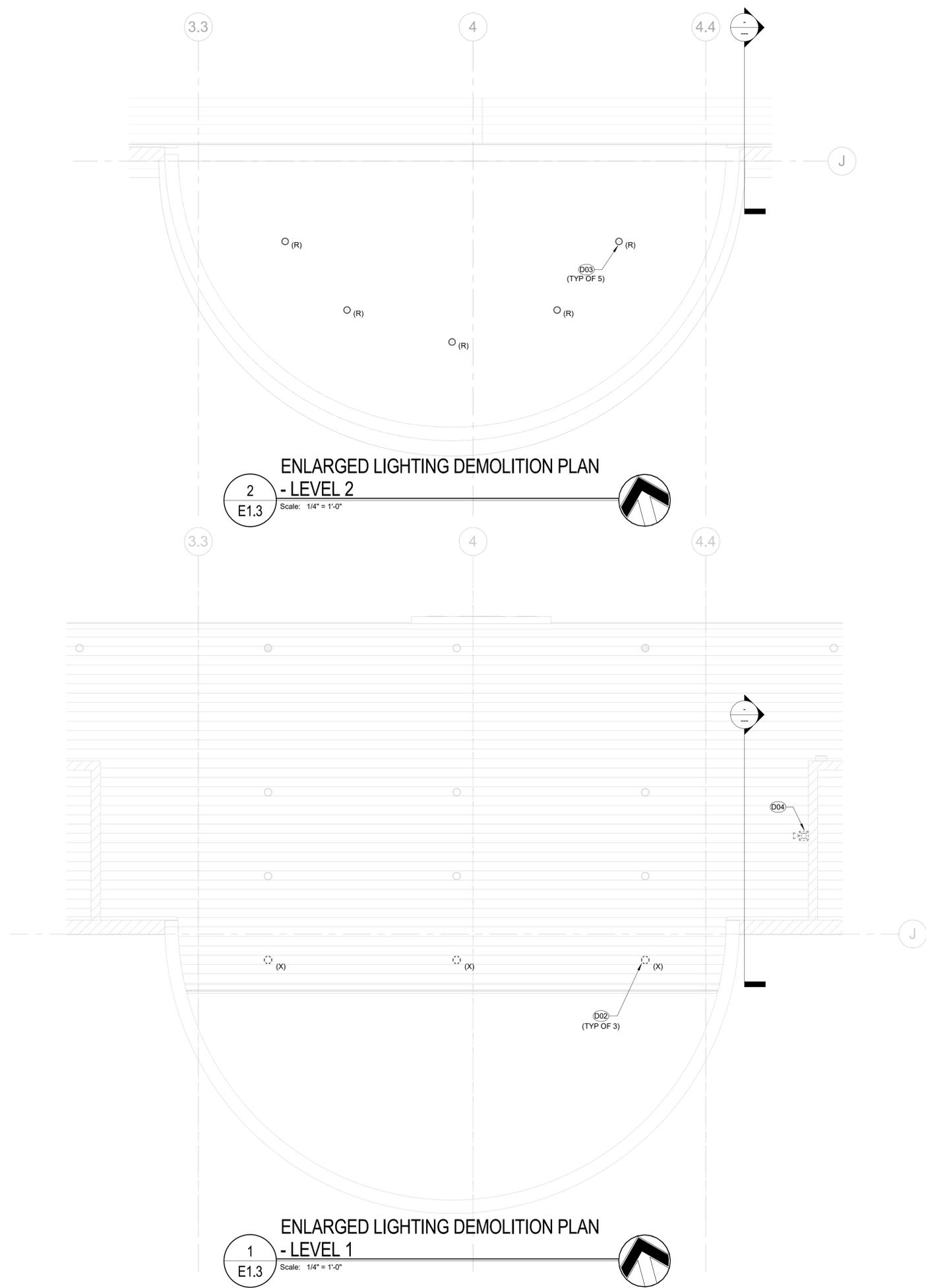
E1.3

GENERAL NOTES

- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (R) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
- THE CONTRACTOR SHALL SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES, MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.

SHEET NOTES

- D02 DEMOLISH EXISTING LIGHTING FIXTURE AND ASSOCIATED CONDUITS, CONDUCTORS, AND SUPPORTS AS REQUIRED TO ACCOMMODATE THE NEW CLIMBING ARCH. COORDINATE WITH CLIMBING ARCH INSTALLER. FIELD VERIFY.
- D03 RELOCATE EXISTING LIGHTING FIXTURE AND ASSOCIATED CONDUITS, CONDUCTORS, AND SUPPORTS. REFER TO LIGHTING PLANS FOR NEW LOCATIONS.
- D04 DEMOLISH EXISTING FIRE ALARM DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS AS REQUIRED.



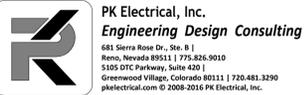
2 - LEVEL 2
 ENLARGED LIGHTING DEMOLITION PLAN
 Scale: 1/4" = 1'-0"

1 - LEVEL 1
 ENLARGED LIGHTING DEMOLITION PLAN
 Scale: 1/4" = 1'-0"



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Sheet Title

**ENLARGED NEW WORK
 LIGHTING PLANS**

Date: OCTOBER 19, 2018

Sheet No:

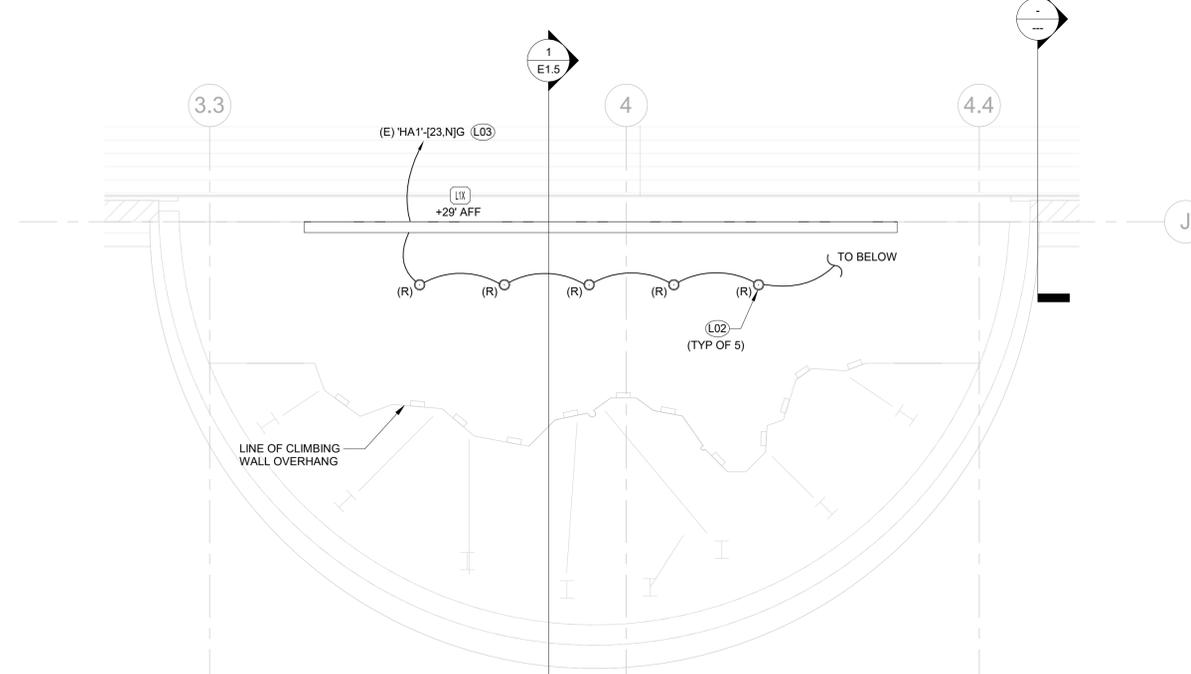
E1.4

GENERAL NOTES

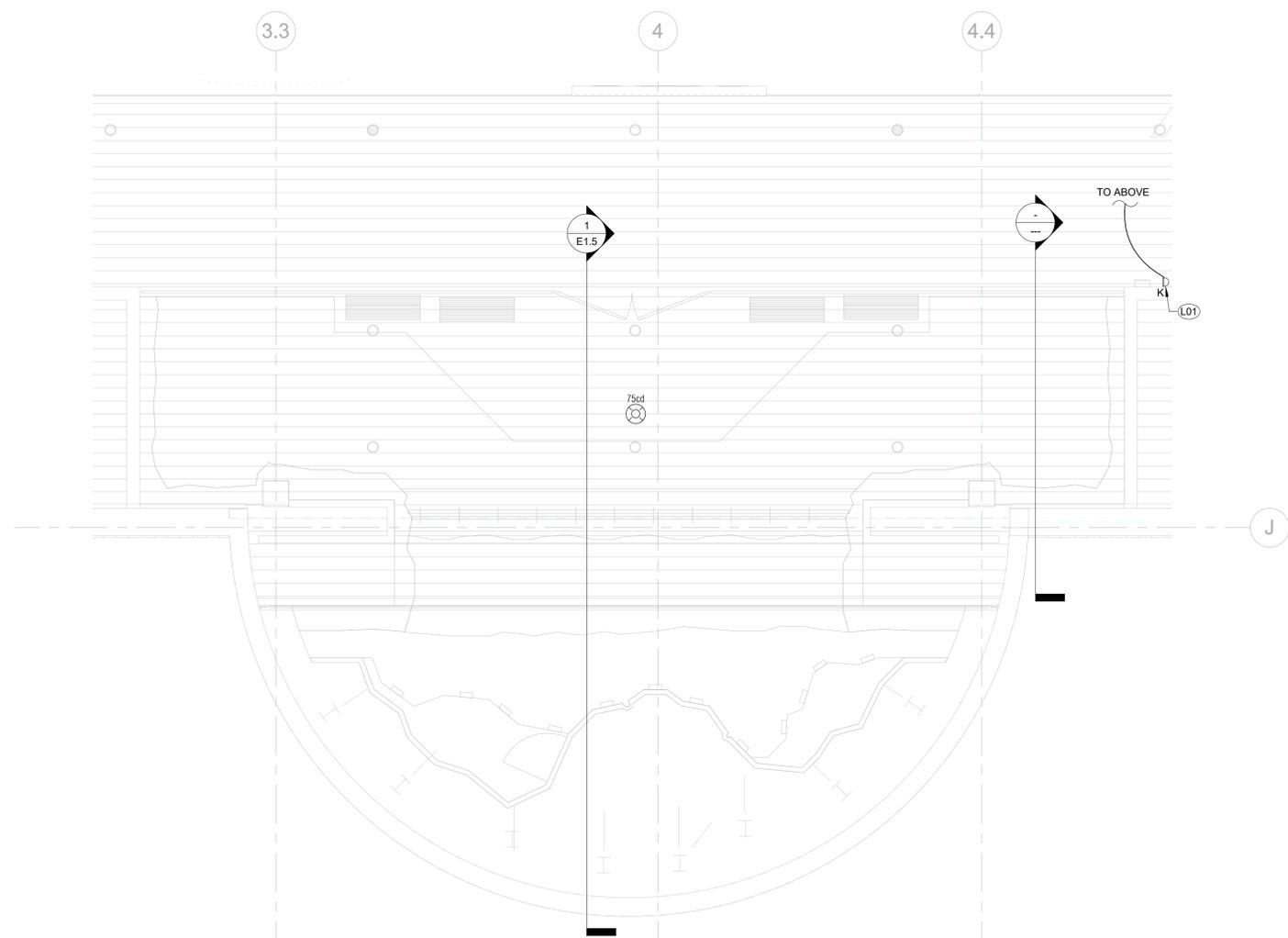
- LIGHTING FIXTURES DESIGNATED AS 'EMERGENCY' SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE VIA EMERGENCY BATTERY PACK OR INVERTER UPON LOSS OF BUILDING UTILITY POWER ONLY, UNLESS NOTED OTHERWISE.
- ELECTRICAL CONDUITS SHALL BE RUN CONCEALED WHERE BUILDING CONSTRUCTION ALLOWS. ANY EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY EXPOSED CONDUIT, FITTING, SUPPORTS, ETC. SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
- PROVIDE MULTIPLE-GANG FACEPLATES AS NECESSARY WHERE TWO OR MORE LIGHT SWITCHES ARE INDICATED IN A COMMON LOCATION. SINGLE-GANG FACEPLATES FOR A GROUP OF LIGHT SWITCHES ARE NOT PERMITTED.

SHEET NOTES

- PROVIDE KEYED DIMMING SWITCH NLIGHT #NPOD-KEY-WH OR APPROVED EQUAL FOR THE LIGHTING FIXTURES SERVING THE ROCK CLIMBING ARCH AND WALL.
- RELOCATED LIGHTING FIXTURE. RECONNECT TO ORIGINAL CIRCUIT AND CONTROLS. PROVIDE NEW CONDUCTORS AND CONDUITS AS NECESSARY. REMOUNT FIXTURES AT +4' AFF. COORDINATE EXACT LOCATION WITH THE CLIMBING WALL EXTENTS TO AVOID CONFLICTS. FIELD VERIFY.
- CONNECT TO EXISTING 277V CIRCUIT VIA LCP-A AND THE EXISTING CONTROLS LOCATED AT THE RECEPTION COUNTER SERVING THE CLIMBING WALL SILO. THE CONTRACTOR SHALL CIRCUIT DEVICES AS CLOSELY AS POSSIBLE AS DEPICTED. UPON COMPLETION OF THE PROJECT, NEW TYPE WRITTEN PANEL DIRECTORS SHALL BE PROVIDED FOR EACH PANEL/CIRCUIT MODIFIED AS A RESULT OF THIS PROJECT.



2 ENLARGED LIGHTING PLAN - LEVEL 2
 E1.4 Scale: 1/4" = 1'-0"



1 ENLARGED LIGHTING PLAN - LEVEL 1
 E1.4 Scale: 1/4" = 1'-0"



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REV	DATE	DESCRIPTION

Sheet Title

**CLIMBING WALL NEW
 WORK LIGHTING
 SECTION**

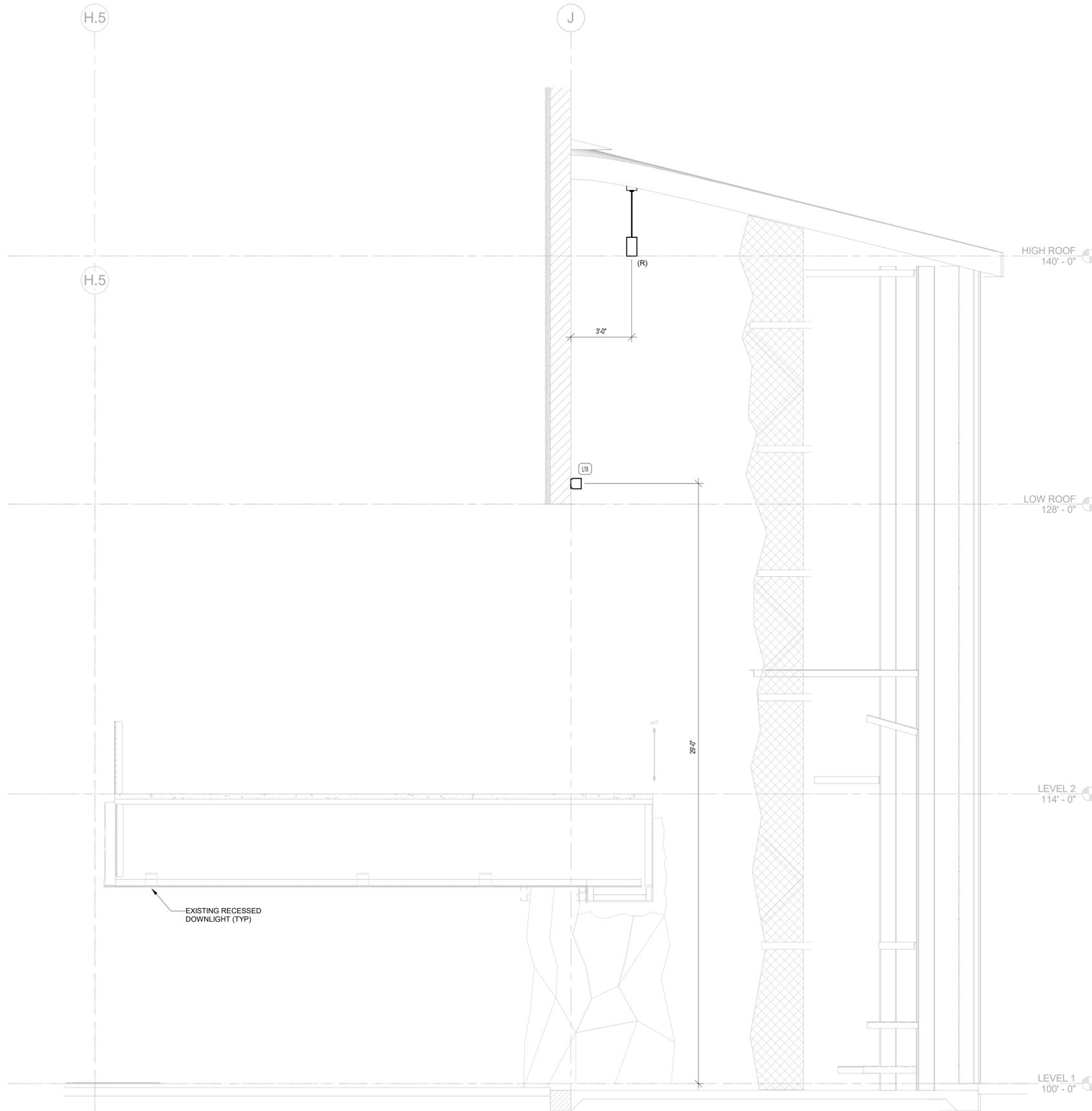
Date: OCTOBER 19, 2018

Sheet No:

E1.5

GENERAL NOTES

- LIGHTING FIXTURES DESIGNATED AS 'EMERGENCY' SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE VIA EMERGENCY BATTERY PACK OR INVERTER UPON LOSS OF BUILDING UTILITY POWER ONLY, UNLESS NOTED OTHERWISE.
- ELECTRICAL CONDUITS SHALL BE RUN CONCEALED WHERE BUILDING CONSTRUCTION ALLOWS. ANY EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY EXPOSED CONDUIT, FITTING, SUPPORTS, ETC. SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
- PROVIDE MULTIPLE-GANG FACEPLATES AS NECESSARY WHERE TWO OR MORE LIGHT SWITCHES ARE INDICATED IN A COMMON LOCATION. SINGLE-GANG FACEPLATES FOR A GROUP OF LIGHT SWITCHES ARE NOT PERMITTED.



**CLIMBING WALL NEW WORK LIGHTING
 SECTION**
 Scale: 3/8" = 1'-0"
 1
 E1.5