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SAMPLE

WORLD STEEL

PROPOSAL DRAWINGS

PROJECT: SAMPLE PROJECT

ITEM: STEEL STRUCTURE

LOCATION: USA

IAS ACCREDITED Metal Building Systems AC 472 | CERTIFIED ISO 14001:2015 COMPANY | CERTIFIED ISO 9001:2015 COMPANY | CERTIFIED ISO 45001:2018 COMPANY | bsi EN 1090-1:2009 +A1:2011 CERTIFIED | bsi AS/NZS 5131:2016 CERTIFIED

HEAD OFFICE: NO.55, LE THUC HOACH STREET, PHU THO HOA WARD, HO CHI MINH CITY, VIETNAM
FACTORY: LOT Q9-10-15-16, STREET NO. 7, HAI SON INDUSTRIAL PARK (PHASE 3+4), DUC HOA COMMUNE, TAY NINH PROVINCE, VIETNAM

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SAMPLE

DRAWINGS LIST

NO	DRAWINGS NAME	REV.	DATE
00	DRAWINGS LIST	00	11/05/2026
01	GENERAL NOTES	00	11/05/2026
02	GENERAL NOTES		11/05/2026
03	1ST FLOOR PLAN @ EL. +0'-6"	00	11/05/2026
04	1ST FLR. PLAN @ EL. +0'-6" (PART 1)	00	11/05/2026
05	1ST FLR. PLAN @ EL. +0'-6" (PART 2)	00	11/05/2026
06	JACKBEAM PLAN	00	11/05/2026
07	ROOF DECK FLOOR PLAN	00	11/05/2026
08	ELEVATION - 1	00	11/05/2026
09	ELEVATION - 3	00	11/05/2026
10	ELEVATION - 2	00	11/05/2026
11	ELEVATION - 4	00	11/05/2026
12	CROSS SECTION @ GL.5 (TYP.)	00	11/05/2026
13	CROSS SECTION @ GL.6 (TYP.)	00	11/05/2026

APPROVED

DATE 11/05/2026

DES	DRW	REV

PM/DM

DRAWING RELEASE HISTORY

TYPE	DATE	DESCRIPTION

INFORMATION HEREON, REMAINS THE PROPERTY OF WORLD STEEL BUILDINGS. IT IS PROVIDED
ILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR
BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE WORLD STEEL ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

USA

DRAWINGS LIST

SCALE: X

PROJECT NO.: SAMPLE

SHEET 00 OF 13

00

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GENERAL NOTES

MATERIALS

MATERIALS	ASTM DESIGNATION	
PLATE WELDED SECTIONS	A572 (OR EQUI.)	GRADE 50
COLD FORMED LIGHT GAGE SHAPES	G450 - Z275 (OR EQUI.)	--
BRACE RODS	ASTM A-36 (OR EQUI.)	GRADE 36
HOT ROLLED MILL SHAPES	ASTM A-36 (OR EQUI.)	GRADE 36
HOT ROLLED ANGLES	ASTM A-36 (OR EQUI.)	GRADE 36
HOLLOW STRUCTURAL SECTION (HSS)	ASTM A-36 (OR EQUI.)	GRADE 36
CLADDING	A653, A792	GRADE 50 OR GRADE 80

DEFLECTION CRITERIA

RAFTER	VERTICAL	SPAN(L)/240	DEAD LOAD + LIVE + COLLATERAL
	VERTICAL	--	--
ROOF PURLINS	VERTICAL	--	--
	VERTICAL	--	--
JOIST, BEAM	VERTICAL	SPAN(L)/240	DEAD LOAD + LIVE + COLLATERAL
	VERTICAL	SPAN(L)/360	LIVE LOAD
FRAME	HORIZONTAL	EAVE HEIGHT(H)/240	WINDLOAD (10 YEARS)
WALL GIRT	HORIZONTAL	SPAN(L)/90	WINDLOAD (10 YEARS)
ENDWALL COLUMN	HORIZONTAL	HEIGHT(H)/120	WINDLOAD (10 YEARS)

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. SEE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS FOR MORE INFORMATION. SEE ERECTION GUIDE FOR BOLT TIGHTENING INSTRUCTIONS. THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E.-SNUG TIGHT OR PRE-TENSION) UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT. ALL A490 BOLTS SHALL BE "PRE-TENSIONED". A325 BOLTS IN PRIMARY FRAMING AND BRACING CONNECTIONS MAY BE "SNUG-TIGHT" EXCEPT AS FOLLOWS;

a. PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS A CRANE GREATER THAN 5 TON CAPACITY.
b. PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS REVERSALS ON CONNECTIONS.
c. PRE-TENSION A325 BOLTS IF LOCATED IN HIGH SEISMIC AREAS. FOR IBC BASED CODES; HIGH SEISMIC IS DESIGN CATEGORY D, E OR F. SEE CODES AND LOADS SECTION BELOW FOR DETAILS.
d. PRE-TENSION ANY CONNECTION WITH DESIGNATION A325-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.
e. IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND FLANGE BRACES.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHT", UNLESS INDICATED OTHERWISE IN ERECTION DRAWING DETAILS.

INSPECTION AND TESTING

SPECIAL INSPECTIONS AND TESTING REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION AND/OR STEEL FABRICATION IS THE RESPONSIBILITY OF THE OWNER OR OWNERS AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY (QAA) APPROVED BY THE AHJ. THE BUILDER IS RESPONSIBLE TO COORDINATE BETWEEN THE QAA FIRM AND BBNA FABRICATION FACILITIES. THE TYPE AND EXTENT OF SPECIAL INSPECTIONS AND NDT WELD TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR BBNA WILL ASSUME SPECIAL INSPECTIONS AND/OR NDT TESTING ARE WAIVED AS PERMITTED BY THE BUILDING CODE BASED ON BBNA FACILITIES IAS AC472 ACCREDITATION.

CODE & LOADS

WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.

CITY: ...
COUNTY: ...
STATE: ...
COUNTRY: USA

BUILDING CODES:

INTERNATIONAL BUILDING CODE 2018
STRUCTURAL STEEL: ASCE 7-16; AISC 360-16
COLD FORM: AISI S100-12
RAINFALL: NOT APPLICABLE
F'C: 3000 PSI CONCRETE
BUILDING RISK/OCCUPANCY CATEGORY: II

DESIGN LOADS:

ROOF LIVE LOAD: 20.00 psf
GROUND SNOW LOAD: 10.00 psf
COLLATERAL LOAD: SEE DRAWING
Misc. LOAD: 0.00 psf
TOTAL ROOF DEAD LOADS: SEE DRAWING
TOTAL DEAD LOADS: BASE ON STRUCTURE

WIND LOAD:
RISK : --
V = 109 mph
EXPOSURE = C

EARTHQUAKE DESIGN DATA:
SEISMIC USE GROUP/OCCUPANCY CATEGORY: II
IMPORTANT FACTOR: Ie = 1.0
SITE CLASS: D
SPECTRAL RESPONSE COEFFICIENTS
Ss = 0.263g
S_1 = 0.091g
DESIGN CATEGORY: C
T_L = 8
R = 3.5; ORDINARY MOMENT FRAMES
Ω_o = 3.0
C_d = 3.0
ρ = 1.3

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APPROVED
DATE 11/05/2026
DES | DRW | REV
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GENERAL NOTES
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SHEET 01 OF 13
01

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NOTES

BUILDER/CONTRACTOR RESPONSIBILITIES

WORLD STEEL FOLLOWS THE GUIDELINES AS OUTLINED IN THE AISC AND MBMA CODES OF STANDARD PRACTICE.

WORLD STEEL STANDARD PRODUCT SPECIFICATIONS, DESIGN, FABRICATION, QUALITY CRITERIA SHALL GOVERN ALL WORK UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS. IN CASE OF DISCREPANCIES BETWEEN WORLD STEEL STRUCTURAL PLANS AND PLANS FOR OTHER TRADES, WORLD STEEL STRUCTURAL PLANS SHALL GOVERN.

IT IS THE RESPONSIBILITY OF THE BUILDER TO OBTAIN APPROVALS AND PERMITS FROM ALL GOVERNING AGENCIES AND JURISDICTIONS AS REQUIRED. APPROVAL OF WORLD STEEL DRAWINGS CONSTITUTES THE BUILDERS ACCEPTANCE OF WORLD STEEL INTERPRETATION OF THE CONTRACT PURCHASE ORDER. UNLESS SPECIFIC DESIGN CRITERIA CONCERNING INTERFACE DESIGN AND DETAILS ARE FURNISHED AS PART OF THE CONTRACT, WORLD STEEL DESIGN ASSUMPTIONS SHALL GOVERN.

WORLD STEEL ENGINEERS ARE NOT PROJECT ENGINEERS OR ENGINEER OF RECORD FOR THE OVERALL PROJECT. WORLD STEEL ENGINEERING SUPPLY ENGINEERING DESIGN DATA AND DRAWINGS FOR WORLD STEEL SUPPLIED MATERIAL AS PART OF THE OVERALL PROJECT FOR USE BY OTHERS TO OBTAIN PERMITS, APPROVALS, AND COORDINATE WITH OTHER TRADES. ALL INTERFACE AND/OR COMPATIBILITY OF ANY MATERIALS NOT FURNISHED BY WORLD STEEL ARE TO BE CONSIDERED AND COORDINATED BY THE BUILDER OR A/E FIRM.

CONSTRUCTION & ERECTION RESPONSIBILITY

THE BUILDER IS RESPONSIBLE FOR CONSTRUCTION IN STRICT ACCORDANCE WITH WORLD STEEL "FOR CONSTRUCTION" DRAWINGS AND ALL APPLICABLE PRODUCT INSTALLATION GUIDES. WORLD STEEL IS NOT RESPONSIBLE FOR WORK DONE FROM ANY OTHER WORLD STEEL DRAWINGS THAT ARE NOT MARKED "FOR CONSTRUCTION", NOR ANY DRAWINGS PREPARED BY OTHERS.

AS ERECTED FIELD ASSEMBLIES OF MEMBERS SHALL BE AS SPECIFIED IN MBMA CODE OF STANDARD PRACTICE (IN CANADA - CSA S16), WHICH REQUIRE L/500 TOLERANCE OF INSTALLED MEMBERS. OCCASIONAL
FIELD WORK INCLUDING SHIMMING, CUTTING, COPING, AND DRILLING FOR FINAL FIT-UP ARE CONSIDERED PART OF ERECTION. SPECIFIED FIELD WORK AND FIELD WELDING CONDITIONS INDICATED ON THESE DRAWINGS SHALL ALSO BE INCLUDED IN THE ERECTORS SCOPE OF WORK. SEE ERECTION GUIDE FOR SHIMMING PROCEDURE. FOR BUILDING WITH TOP RIDING BRIDGE CRANES SEE CRANE DATA DRAWING FOR COLUMN PLUMB TOLERANCE.

THE BUILDING ERECTOR SHALL BE PROPERLY LICENSED AND EXPERIENCED IN ERECTING METAL BUILDING SYSTEMS. THE BUILDER IS RESPONSIBLE FOR HAVING KNOWLEDGE OF, AND SHALL COMPLY WITH, ALL OSHA REQUIREMENTS AND ALL OTHER GOVERNING SITE SAFETY CRITERIA. THE BUILDER IS RESPONSIBLE FOR DESIGNING, SUPPLYING, LOCATING AND INSTALLING TEMPORARY SUPPORTS AND BRACING DURING ERECTION OF THE BUILDING. WORLD STEEL BRACING IS DESIGNED FOR CODE REQUIRED LOADS AFTER BUILDING COMPLETION AND SHALL NOT BE CONSIDERED AS ADEQUATE ERECTION BRACING. SEE ERECTION GUIDE.

EXISTING STRUCTURES

WORLD STEEL MUST BE ADVISED OF ANY STRUCTURE THAT IS WITHIN 20 FT. OF WORLD STEEL'S BUILDING. LOAD EFFECTS FROM SNOW DRIFTING, WIND EFFECTS, AND SEISMIC SEPARATION MUST BE CONSIDERED FOR BOTH THE NEW AND EXISTING STRUCTURES. WORLD STEEL HAS DESIGNED THE NEW WORLD STEEL BUILDING FOR THESE EFFECTS. THE OWNER/BUILDER ARE RESPONSIBLE FOR EMPLOYING A PROFESSIONAL ENGINEER TO REVIEW AND VERIFY THE EXISTING STRUCTURE FOR ALL LOAD EFFECTS FROM THE ADJACENT WORLD STEEL BUILDING.

BRACING

TENSION BRACE RODS WORK IN PAIRS TO BALANCE FORCES CAUSED BY INITIAL TENSIONING. CARE MUST BE TAKEN WHILE TIGHTENING BRACE RODS SO AS NOT TO CAUSE ACCIDENTAL OR MISALIGNMENT OF COMPONENTS.
ALL RODS MUST BE INSTALLED LOOSE AND THEN TIGHTENED. RODS SHOULD NOT EXHIBIT EXCESSIVE SAG. FOR LONG OR HEAVY RODS, OR ANGLES IT MAY BE NECESSARY TO SUPPORT THE RODS AT MID-BAY BY SUSPENDING THEM FROM SECONDARY MEMBERS.
BRACING FOR SEISMIC OR WIND LOADING OF OBJECTS OR EQUIPMENT THAT ARE NOT A PART OF THE WORLD STEEL STRUCTURE MUST BE DESIGNED BY A QUALIFIED PROFESSIONAL TO DELIVER LATERAL LOADS TO PRIMARY FRAMES AND ROD BRACING STRUTS. EQUIPMENT BRACING AND SUSPENSION CONNECTIONS MUST NOT IMPOSE TORSION OR MINOR AXIS LOADS, OR CAUSE LOCAL DISTORTION IN ANY WORLD STEEL COMPONENTS. WORLD STEEL ACCEPTS NO RESPONSIBILITY FOR DESIGN OR INSTALLATION OF BRACING SYSTEMS NOT FURNISHED BY WORLD STEEL.

SPONSIBLE FOR ALL RETENTION
CHARGES FROM CARRIERS AS A RESULT OF JOB SITE UNLOADING DELAYS.

FIELD WELDING

ALL FIELD WELDING SHALL BE DONE AT THE DIRECTION OF A DESIGN PROFESSIONAL, AND DONE IN ACCORDANCE WITH GOVERNING REQUIREMENTS (AWS IN USA, CWB IN CANADA) BY WELDERS QUALIFIED TO PERFORM THE WELDING AS DIRECTED BY THE APPLICABLE WELDING PROCEDURE SPECIFICATION (WPS). A WPS SHALL BE PREPARED BY THE CONTRACTOR FOR EACH WELDING VARIATION SPECIFIED. THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL WELDING INSPECTION AS REQUIRED BY LOCAL JURISDICTION. FILLER METAL SHALL BE 70 KSI (480 MPA) TENSILE STRENGTH. FOR WELDS IN HIGH SEISMIC FORCE RESISTING SYSTEM (SEISMIC CAT D, E OR F), MINIMUM CHARPY V-NOTCH TOUGHNESS SHALL MEET AISC-341 CRITERIA (20 FT-LBS MIN @ 0DEG F). INTERPASS TEMPERATURES SHALL NOT EXCEED 550DEG F (300DEG C).

DELIVERIES

IT IS THE RESPONSIBILITY OF THE BUILDER TO HAVE ADEQUATE EQUIPMENT AVAILABLE AT THE JOB SITE TO UNLOAD TRUCKS IN A SAFE AND TIMELY MANNER. THE BUILDER WILL BE RE

SIGNAGE

THE BUILDER IS RESPONSIBLE FOR FURNISHING SIGNS AS REQUIRED BY CODE AND THE BUILDING DEPARTMENT, INCLUDING BUT NOT LIMITED TO, EXITS, OCCUPANCY LIMITS, FLOOR LOADING LIMITS, AND BULK STORAGE LIMITS. FLOOR LOADING SIGNS SHALL CLEARLY INDICATE MAXIMUM FLOOR LIVE LOAD PERMITTED. BULK STORAGE FACILITIES SHALL HAVE SIGNS CLEARLY POSTED ON ALL LOADED WALLS INDICATING THE TYPE OF COMMODITY STORED AND THE MAXIMUM STORAGE HEIGHT. SIGNS SHALL BE CLEARLY VISIBLE WHEN
BUILDING IS FULLY LOADED TO DESIGN LEVEL. OVERLOADING OF FLOORS OR WALLS MAY RESULT IN FAILURE.

CLAIMS FOR DAMAGE OR SHORTS MUST BE NOTED ON THE BILL-OF-LADING OR DELIVERY
RECEIPT AND FILED AGAINST THE CARRIER BY THE CONSIGNEE AS PER WORLD STEEL'S TERMS OF SALES (F.O.B. PLANT) UNDER THE UNIFORM COMMERCIAL CODE. IT IS CRITICAL THAT DAMAGES OR SHORTS BE NOTED ON THE BILL-OF-LADING OR YOU HAVE LITTLE RECOURSE WITH THE CARRIER. IMMEDIATELY UPON DELIVERY OF MATERIAL, MATERIAL QUANTITIES ARE VERIFIED BY THE BUILDER AGAINST QUANTITIES BILLED ON THE SHIPPING DOCUMENT. NEITHER THE MANUFACTURER NOR THE CARRIER IS RESPONSIBLE FOR MATERIAL SHORTAGES AGAINST QUANTITIES BILLED ON THE SHIPPING DOCUMENT IF SUCH SHORTAGES ARE NOT NOTED ON THE SHIPPING DOCUMENTS UPON DELIVERY OF MATERIAL AND ACKNOWLEDGED BY THE CARRIERS AGENT. FOR MATERIALS CONCEALED IN BUNDLES, BOXES, OR CRATES, SHORTAGES MUST BE REPORTED IMMEDIATELY UPON UNPACKING. SHOULD PRODUCTS GET WET, BUNDLED AND CRATED MATERIALS MUST BE UNPACKED AND UNBUNDLED IMMEDIATELY TO PROVIDE DRAINAGE OF TRAPPED MOISTURE. SEE ERECTION GUIDE FOR PROPER JOB SITE STORAGE PROCEDURE.

SEALANTS

SEALANTS SHALL BE APPLIED IN STRICT ACCORDANCE WITH WORLD STEEL DETAILS OR WEATHER TIGHTNESS WILL BE COMPROMISED. SEALANT MUST BE APPLIED IN TEMPERATURES AND WEATHER CONDITIONS CONSISTENT WITH LABELING.

INDEPENDENT MEZZANINES

INDEPENDENT MEZZANINES MUST BE DESIGNED BY A PROFESSIONAL ENGINEER. THE ENGINEER MUST ENSURE THAT PROPER ISOLATION FROM THE WORLD STEEL BUILDING HAS BEEN PROVIDED TO AVOID STRUCTURAL DAMAGE DUE TO DIFFERENTIAL MOVEMENTS, OR INADVERTENTLY APPLY LOADS TO THE WORLD STEEL STRUCTURE. WORLD STEEL ACCEPTS NO RESPONSIBILITY FOR THE DESIGN OF THE INDEPENDENT MEZZANINE.

FIRE CODE COMPLIANCE

IT IS THE RESPONSIBILITY OF THE PROJECT DESIGN PROFESSIONAL AND BUILDER TO COMPLY WITH LOCAL FIRE CODE REGULATIONS INCLUDING CONSIDERATION OF, BUT NOT LIMITED TO, BUILDING USE AND OCCUPANCY, ALL BUILDING CONSTRUCTION MATERIALS, SEPARATION REQUIREMENTS, EGRESS REQUIREMENTS, FIRE PROTECTION SYSTEMS, ETC. BUILDER SHALL ADVISE WORLD STEEL OF ANY SPECIAL REQUIREMENTS TO BE FURNISHED BY WORLD STEEL.

FIELD MODIFICATIONS

MODIFICATIONS TO THIS BUILDING FROM DETAILS AND INSTRUCTIONS CONTAINED ON THESE DRAWINGS MUST BE APPROVED IN WRITING BY WORLD STEEL ENGINEERS, OR OTHER LICENSED STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF ROOF OR WALL CLADDING, REMOVING OR MOVING ANY FLANGE BRACES OR ROD BRACES, CUTTING OF OPENINGS FOR DOORS, WINDOWS OR RTU'S, CORRECTION OF FABRICATION ERRORS, ETC. THE OWNER SHALL NOT IMPOSE LOADS TO THIS STRUCTURE BEYOND WHAT IS SPECIFIED FOR THIS BUILDING IN THE CONTRACT DOCUMENTS. WORLD STEEL ACCEPTS NO RESPONSIBILITY FOR THE CONSEQUENCES OF ANY UNAUTHORIZED ADDITIONS, ALTERATIONS, OR ADDED LOADS TO THIS STRUCTURE. IF THE BUILDER INTENDS TO INVOICE WORLD STEEL FOR MODIFICATIONS IN EXCESS OF $1000, THE BUILDER MUST NOTIFY WORLD STEEL IMMEDIATELY, AND OBTAIN A WORK AUTHORIZATION FROM WORLD STEEL PRIOR TO PROCEEDING. ALL FINAL CLAIMS MUST BE SUBMITTED TO WORLD STEEL WITH ALL SUPPORTING DOCUMENTATION WITHIN 30 DAYS OF THE BUILDING COMPLETION. CLAIMS SUBMITTED WITHOUT WORK AUTHORIZATIONS, OR AFTER 30 DAYS WILL NOT BE ACCEPTED. CORRECTION OF MINOR MISFITS, SHIMMING AND PLUMBING, MODERATE AMOUNT OF REAMING, DRILLING, CHIPPING / CUTTING AND MINOR WELDING ARE CONSIDERED BY CODE OF STANDARD PRACTICE TO BE PART OF ERECTION ARE NOT SUBJECT TO CLAIM REIMBURSEMENT.

CONCRETE/MASONRY/CONVENTIONAL STUD WALLS

THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE WALL SYSTEM IS RESPONSIBLE FOR COORDINATING WITH, OR SPECIFYING TO WORLD STEEL, ANY WALL TO STEEL COMPATIBILITY ISSUES SUCH AS DRIFT AND DEFLECTION COMPATIBILITY, SPECIAL BASE DETAILS, AND WALL TO WORLD STEEL STEEL CONNECTIONS. ALL FASTENERS, SEALANT AND COUNTER FLASHING OF WALL SYSTEMS ARE TO BE PROVIDED BY CONTRACTOR. THE ENGINEER RESPONSIBLE FOR THE WALL SHALL DESIGN THE ANCHORAGE TO WORLD STEEL SUPPORTING ELEMENTS CONSISTENT WITH CODE REQUIRED FORCES.

PANELS

OIL CANNING IS AN INHERENT CHARACTERISTIC OF COLD FORMED STEEL PANELS. IT IS THE RESULT OF SEVERAL FACTORS THAT INCLUDE INDUCED STRESSES IN THE RAW MATERIAL DELIVERED TO WORLD STEEL, FABRICATION METHODS, INSTALLATION PROCEDURES, AND POST INSTALLATION THERMAL FORCES. THRU FASTENED PANELS WILL EXHIBIT SOME DIMPLING WHEN INSTALLED, ESPECIALLY WHEN INSULATION IS INSTALLED BETWEEN PANELS AND SECONDARY SUPPORTS. DIMPLING CAN BE MINIMIZED BY CAREFUL INSTALLATION, TAKING CARE NOT TO OVER DRIVE FASTENERS.

ROOF RUMBLE IS A PHENOMENON THAT IS CAUSED BY WIND GUSTS LIFTING UP ON THE ROOF PANELS AND THEN SPRINGING BACK INTO PLACE. ALL PANELS EXPERIENCE THIS ACTION TO SOME DEGREE, ESPECIALLY WITH CONCEALED CLIP STANDING SEAM PANELS. ROOF RUMBLE NOISE MAY BE MINIMIZED BY PROVIDING A LAYER OF BLANKET INSULATION BETWEEN THE PANELS AND ANY HARD SUPPORT SURFACE SUCH AS STEEL SECONDARY MEMBERS, SUBSTRATES SUCH AS PLYWOOD, STEEL DECKING, OR RIGID BOARD INSULATION. A MINIMUM OF 3 INCH THICK BLANKET IS RECOMMENDED OVER STEEL SECONDARY MEMBERS, OR 2 INCH OVER SUBSTRATES.

OIL CANNING, DIMPLING, AND ROOF RUMBLE DO NOT AFFECT THE STRUCTURAL INTEGRITY OR WEATHER TIGHTNESS OF THE PANELS AND IS NOT GROUNDS FOR REJECTION OF PANELS.

THE STANDING SEAM JOINT DETAIL IS DESIGNED WITH AN INTERLOCKING FEATURE FOR EASE OF INSTALLATION. HOWEVER, IT IS IMPERATIVE THAT INSTALLED STANDING SEAM PANELS BE SECURED TO THE SECONDARY STRUCTURAL MEMBERS AND PROPERLY SEAMED PRIOR TO DEPARTURE FROM THE JOB SITE EACH DAY.

SKYLIGHTS

LOCAL BUILDING DEPARTMENTS MAY REQUIRE ADDED FALL RESTRAINT DUE TO CONDITIONS THAT MAY AFFECT THE SKYLIGHT STRUCTURAL INTEGRITY. IT IS THE RESPONSIBILITY OF THE BUILDER TO DETERMINE AND PROVIDE ANY ADDED FALL RESTRAINT UNDER THE SKYLIGHT AS MAY BE REQUIRED BY YOUR BUILDING DEPARTMENT.

RAIN WATER RUNOFF

DRAINAGE SYSTEMS MUST BE DESIGNED BY THE PROJECT PROFESSIONAL TO COMPLY WITH CODE REQUIREMENTS.
WORLD STEEL IS NOT RESPONSIBLE FOR DRAINAGE DESIGNS, OVERFLOW SCUPPERS, DOWN PIPING, ETC. THE PROJECT PROFESSIONAL AND CONTRACTOR ARE RESPONSIBLE TO ENSURE THAT PRIMARY DRAINS AND OVERFLOW DEVICES SUCH AS SCUPPERS AND AUXILIARY DRAINS ARE PROVIDED AS REQUIRED FOR THE REQUIRED RAIN INTENSITY AT THE BUILDING PERIMETER AND AT VALLEY CONDITIONS TO PREVENT PONDING.

STEEL SHOP COAT

THE PURPOSE OF WORLD STEEL'S SHOP COAT IS TO PROVIDE PROTECTION FOR THE STEEL MEMBERS DURING TRANSPORTATION, DURING TEMPORARY JOB SITE STORAGE AND DURING ERECTION. STANDARD SHOP FORMULATION IS NOT DESIGNED TO PERFORM AS A FINISH COAT WHEN EXPOSED TO ENVIRONMENTAL CONDITIONS. MEMBERS SHALL BE KEPT FREE OF THE GROUND AND PROPERLY DRAINED DURING JOB SITE STORAGE. IT IS THE BUILDER'S RESPONSIBILITY TO ENSURE THAT IF A FINISH COAT IS BEING APPLIED OVER WORLD STEEL SHOP COAT THAT THE PAINTING CONTRACTOR VERIFIES COMPATIBILITY BETWEEN HIS FINISH COAT AND WORLD STEEL'S SHOP COAT.

WORLD STEEL ACCREDITATIONS AND APPROVALS

FABRICATOR APPROVALS
IAS AC472 APPROVALS: (WWW.IASONLINE.ORG/METAL_BUILDING_SYSTEMS/MB.HTML)

DESIGN APPROVALS
IAS AC472 APPROVALS: (WWW.IASONLINE.ORG/METAL_BUILDING_SYSTEMS/MB.HTML)
LISTED UNDER WORLD STEEL.

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APPROVED

DATE 11/05/2026

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PM/DM		

USA

GENERAL NOTES

SCALE: X

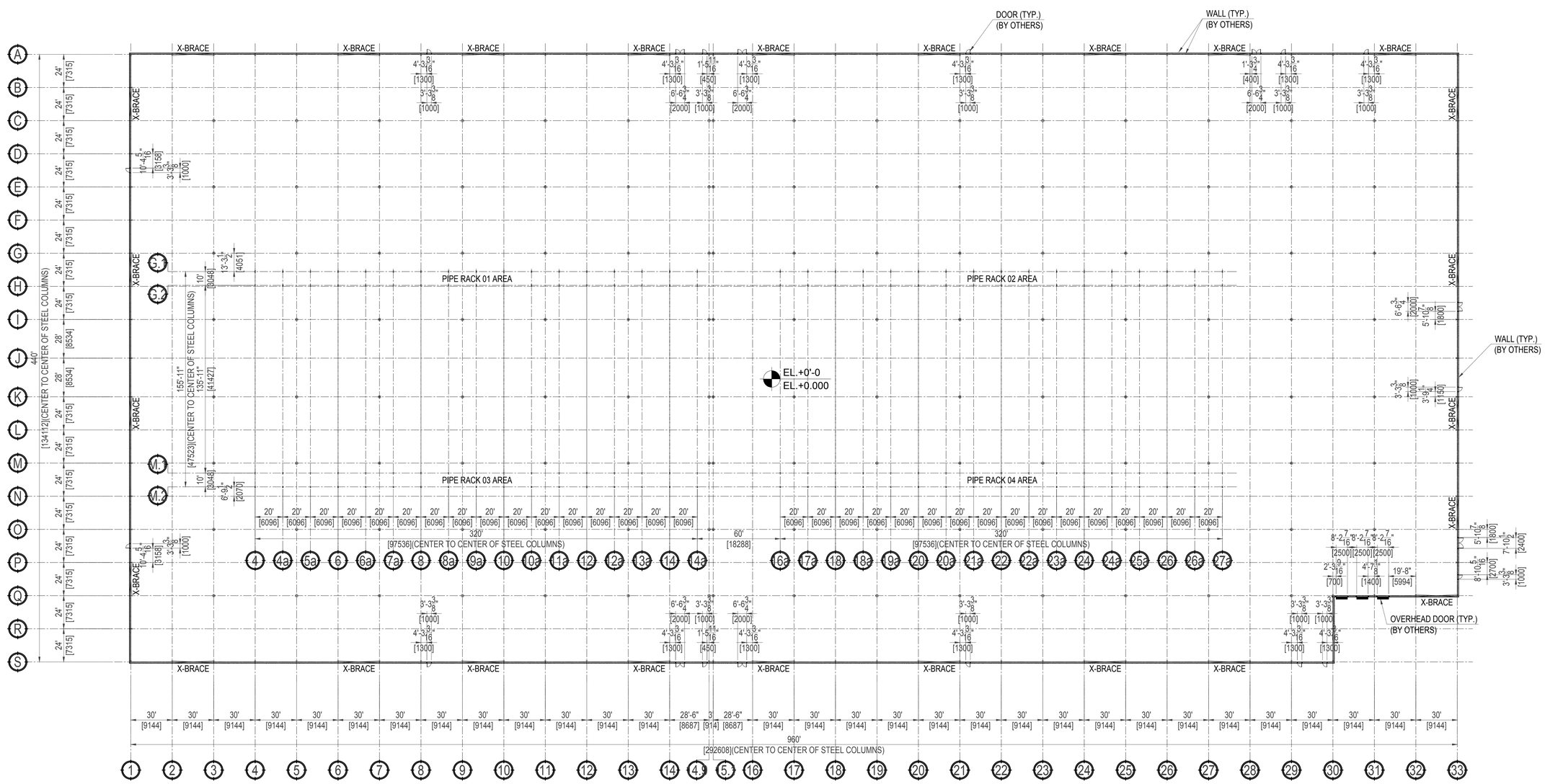
PROJECT NO.: SAMPLE

SHEET 02 OF 13

02

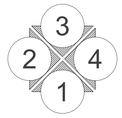
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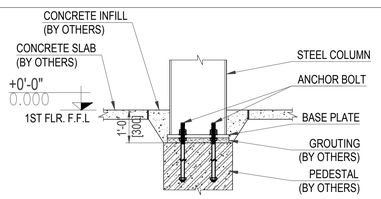
SAMPLE



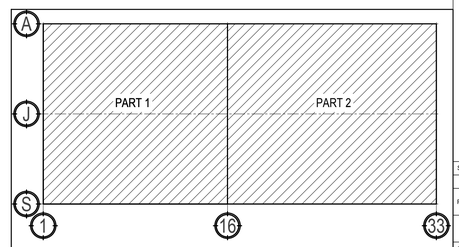
1ST FLOOR PLAN @ EL. +0'-6"

SC: 3/112"=1'





STEEL COLUMN BASE DETAIL (TYP.)



KEY PLAN

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

1ST FLOOR PLAN @ EL. +0'-6"

SCALE: 3/112"=1'

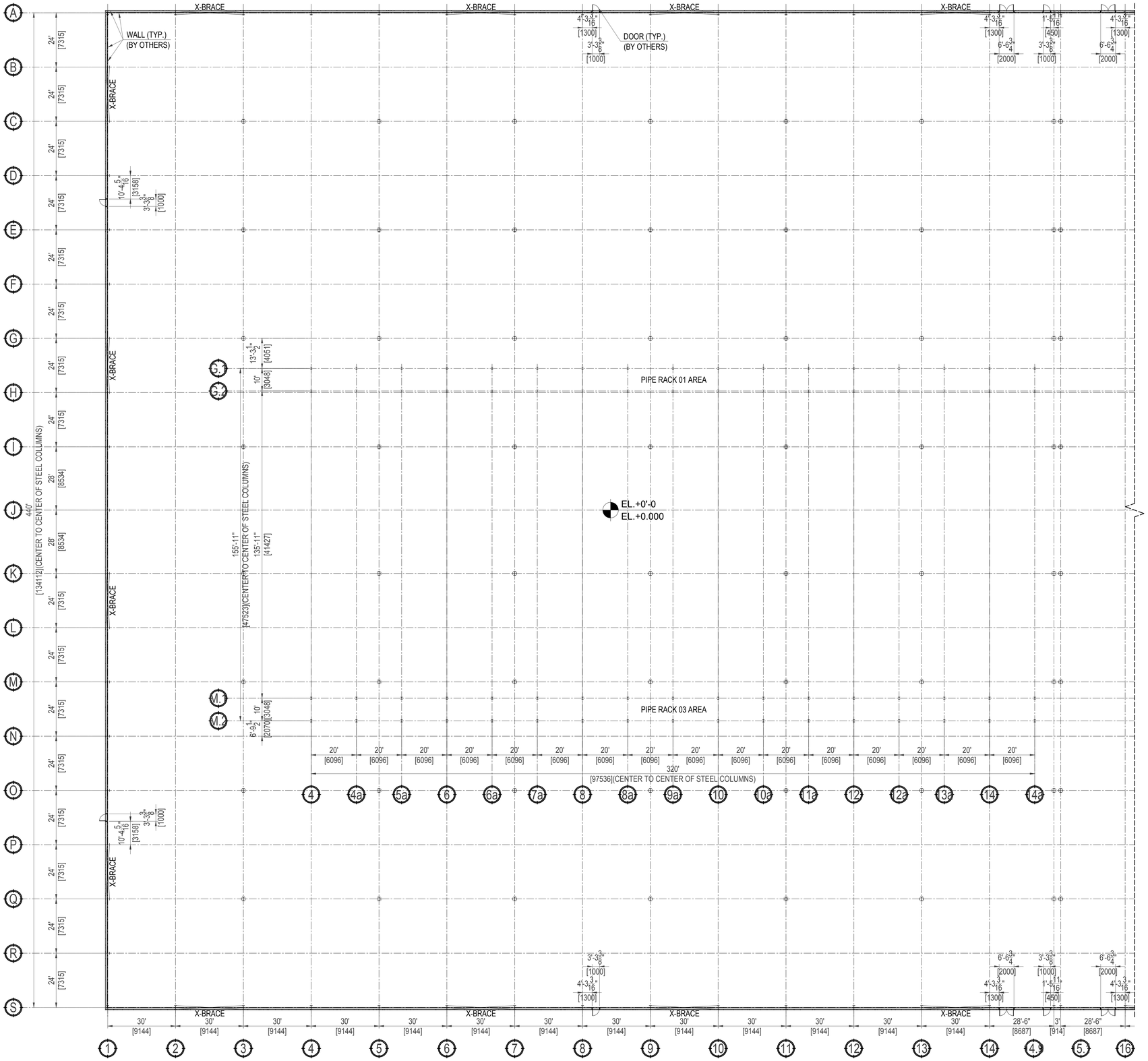
PROJECT NO.: SAMPLE

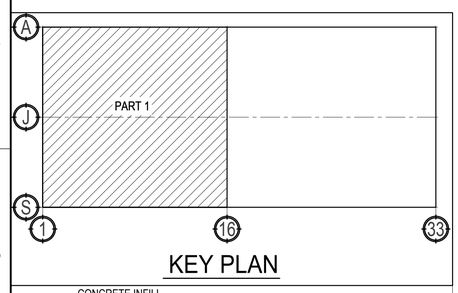
SHEET 03 OF 13

03

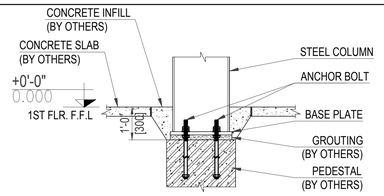
Questions about this sample? Talk to Victor Dang
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SAMPLE





KEY PLAN



STEEL COLUMN BASE DETAIL (TYP.)

1ST FLR. PLAN @ EL. +0'-6" (PART 1) SC: 3/64"=1'

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

1ST FLR. PLAN @ EL. +0'-6" (PART 1)

SCALE: 3/64"=1'

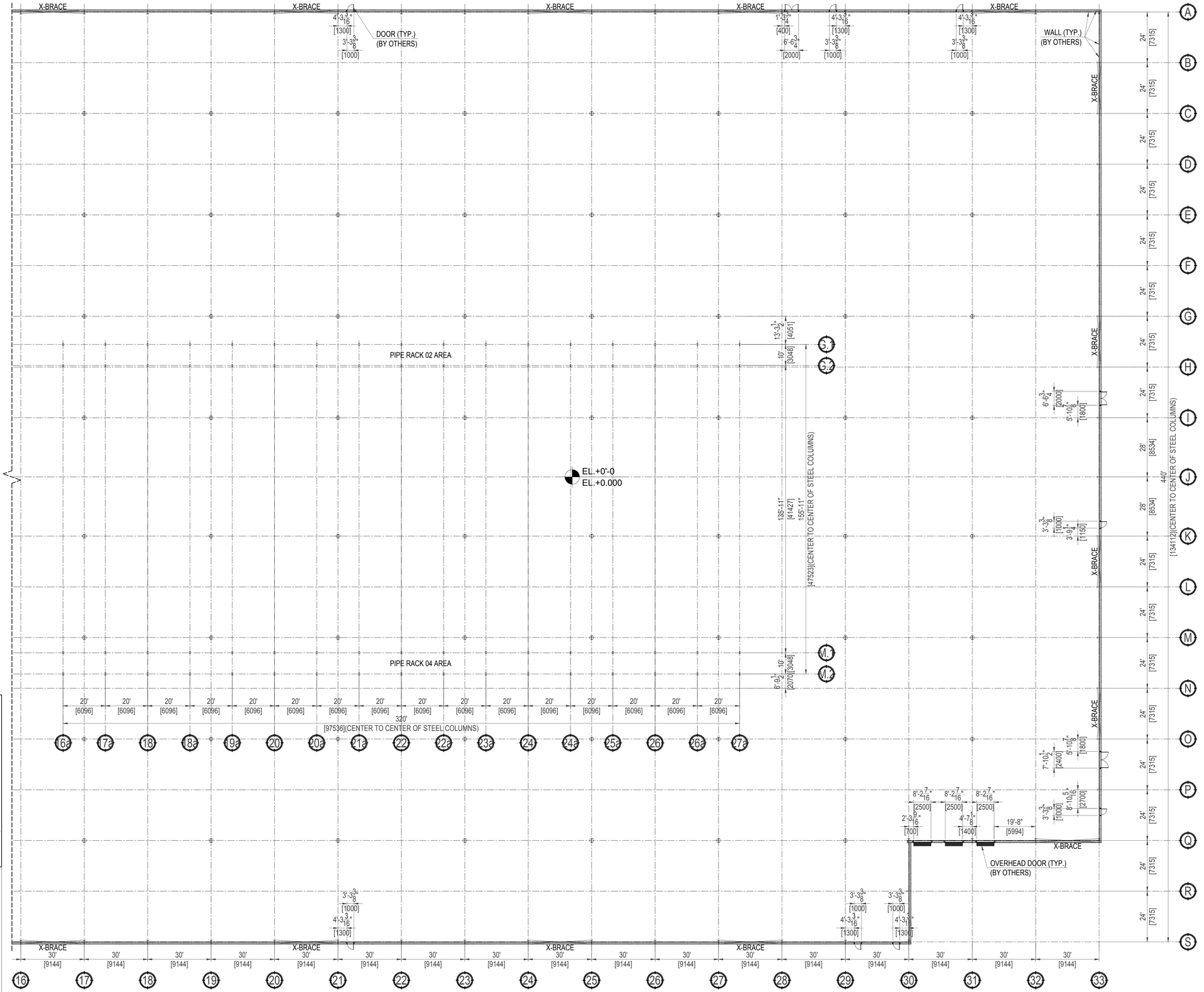
PROJECT NO.: SAMPLE

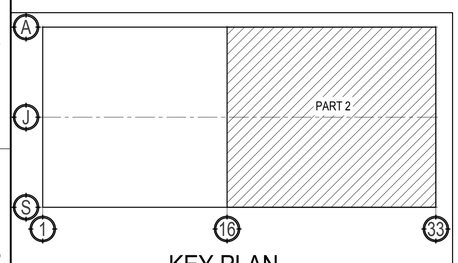
SHEET 04 OF 13

04

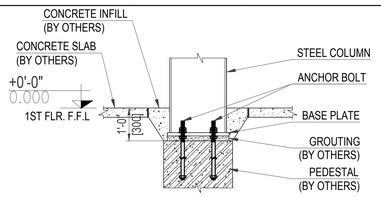
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SAMPLE





KEY PLAN



STEEL COLUMN BASE DETAIL (TYP.)

1ST FLR. PLAN @ EL. +0'-6" (PART 2) SC: 3/64"=1'

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

1ST FLR. PLAN @ EL. +0'-6" (PART 2)

SCALE: 3/64"=1'

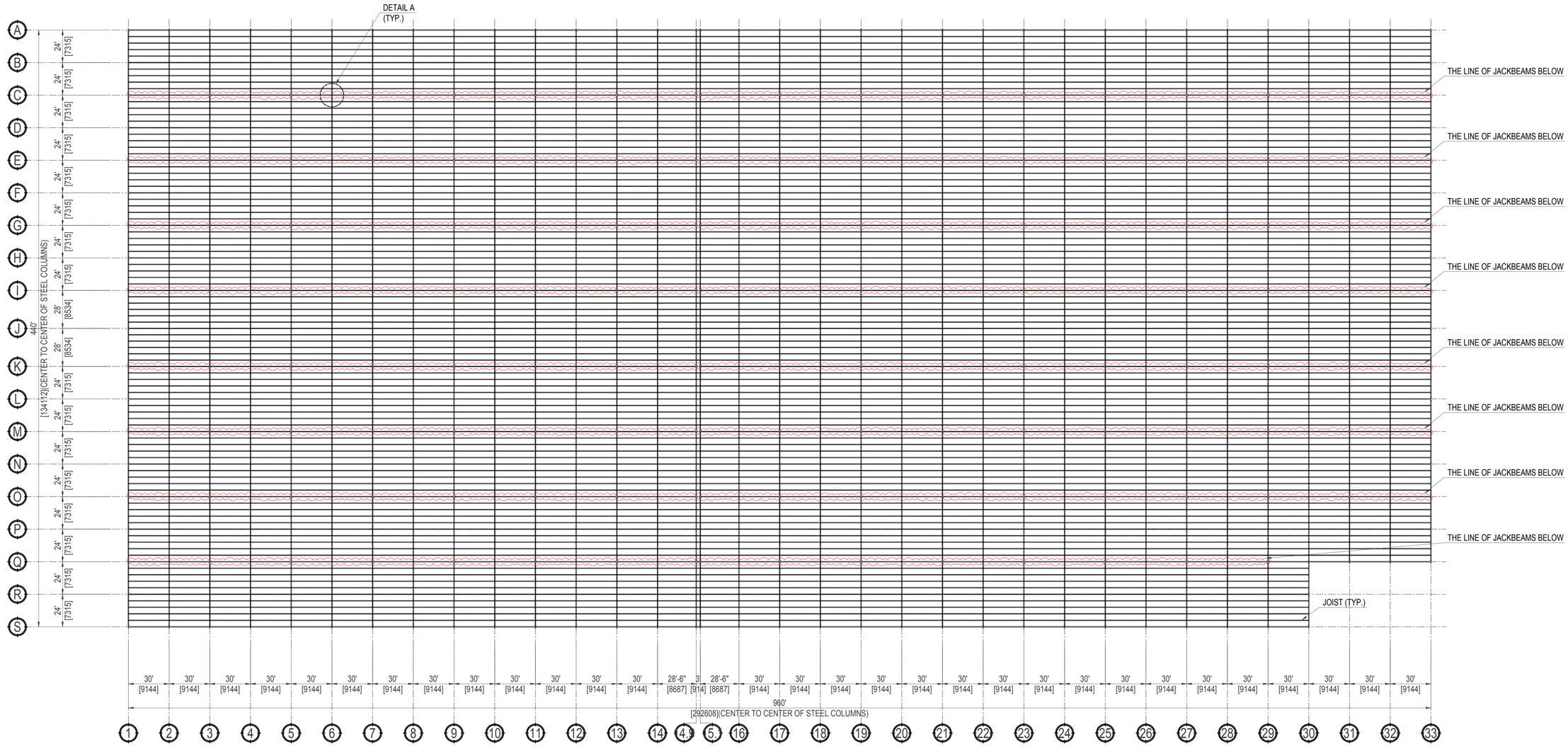
PROJECT NO.: SAMPLE

SHEET 05 OF 13

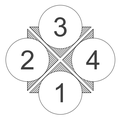
05

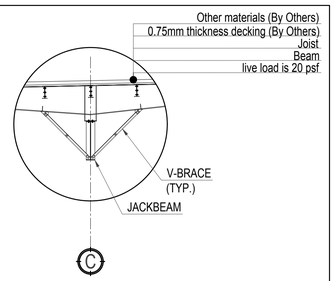
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SAMPLE



JACKBEAM PLAN SC: 3/112"=1'





DETAIL A (TYP.)

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

JACKBEAM PLAN

SCALE: 3/112"=1'

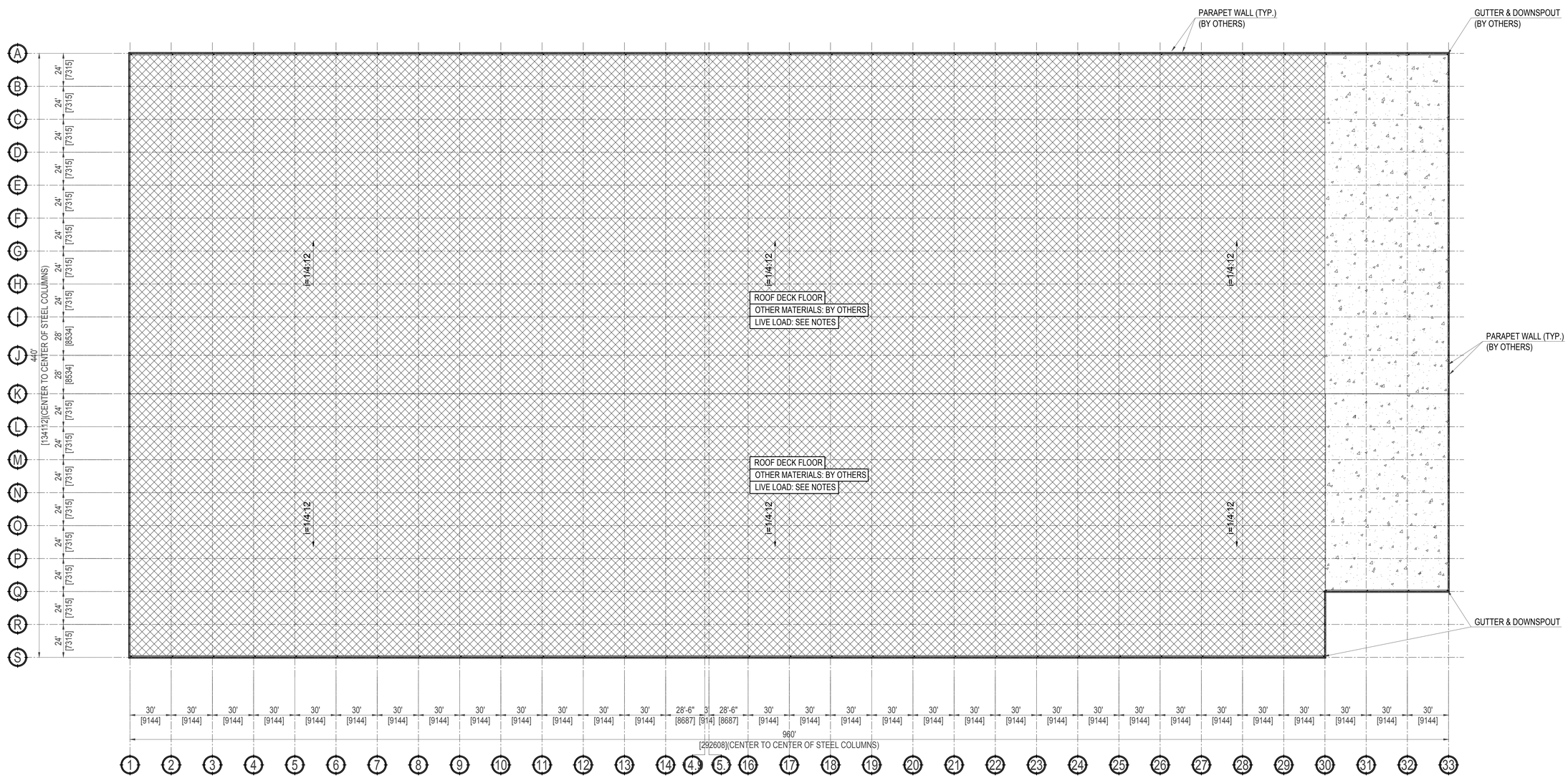
PROJECT NO.: SAMPLE

SHEET 06 OF 13

06

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SAMPLE



ROOF DECK FLOOR PLAN

SC: 3/112"=1'

*NOTES:

GRAVITY LOAD LEGEND					
ZONE	DEAD LOADS	SUPERIMPOSED DEAD LOADS	LIVE LOADS	SEISMIC MASS	HATCH PATTERN
ROOF OVER DATA HALLS AND CORRIDOR	STEEL JOIST AND FRAMING SELF-WEIGHT	50 PSF COLLATERAL	20 PSF	DL + SDL	
ROOF OVER ADMIN	STEEL JOIST AND FRAMING SELF-WEIGHT	140 PSF COLLATERAL	20 PSF	DL + SDL	

APPROVED

DATE 11/05/2026

DES	DRW	REV

PM/DM

USA

ROOF DECK FLOOR PLAN

SCALE: 3/112"=1'

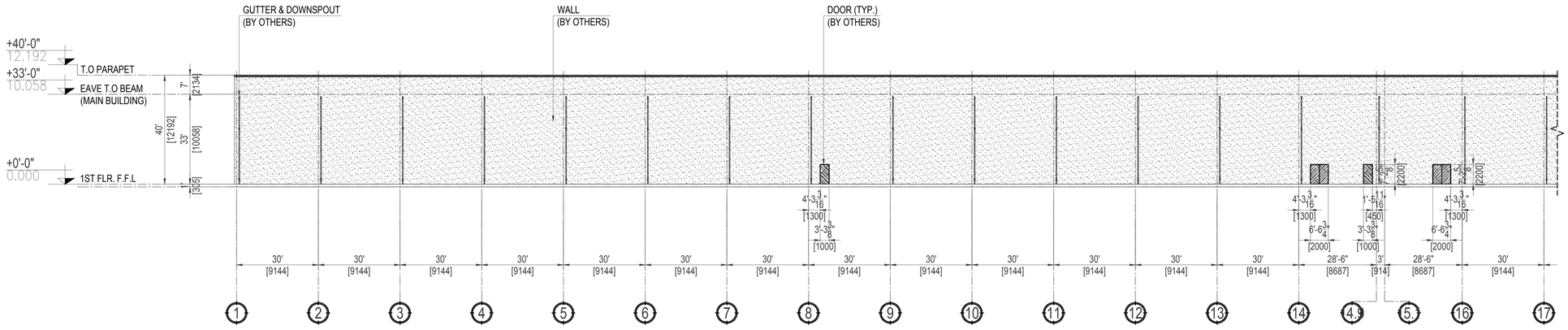
PROJECT NO.: SAMPLE

SHEET 07 OF 13

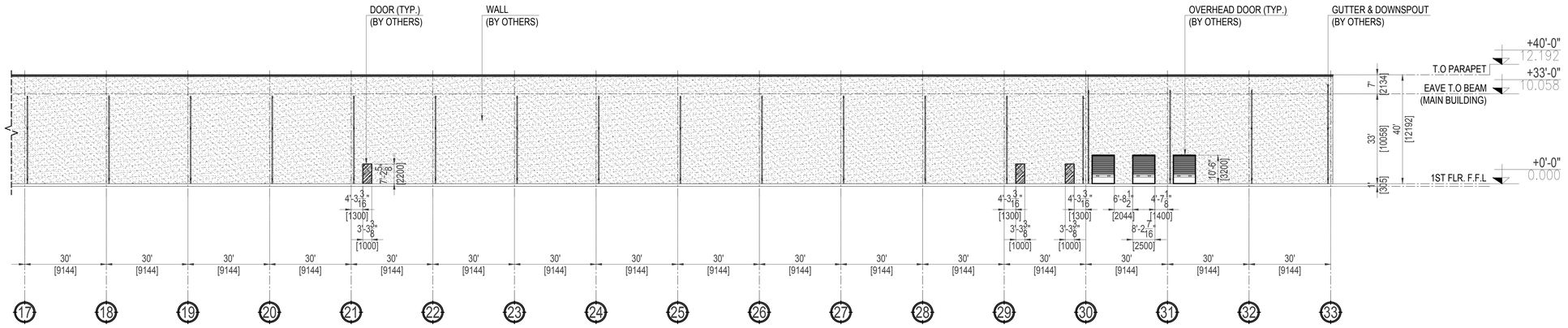
07

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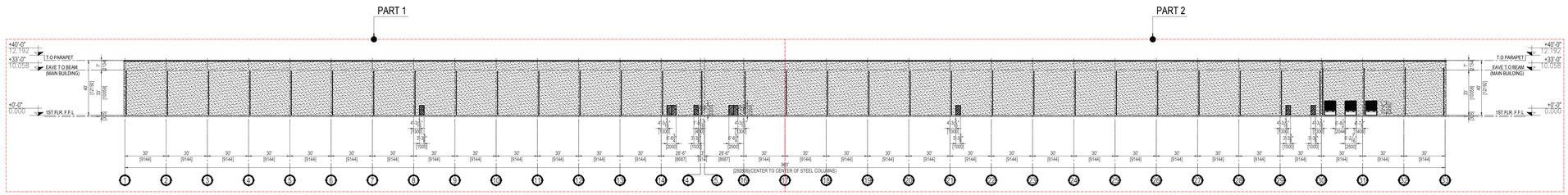
SAMPLE



ELEVATION - 1 (PART 1) SC: 3/112"=1'



ELEVATION - 1 (PART 2) SC: 3/112"=1'



ELEVATION - 1 (OVERALL)

APPROVED

DATE: 11/05/2026

DES	DRW	REV
PM/DM		

USA

ELEVATION - 1 (OVERALL)

SCALE: 3/112"=1'

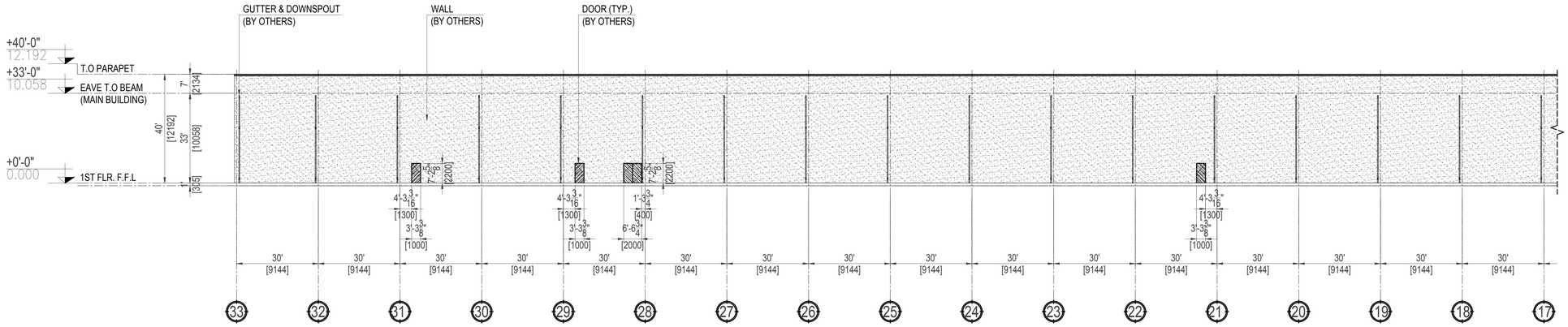
PROJECT NO.: SAMPLE

SHEET 08 OF 13

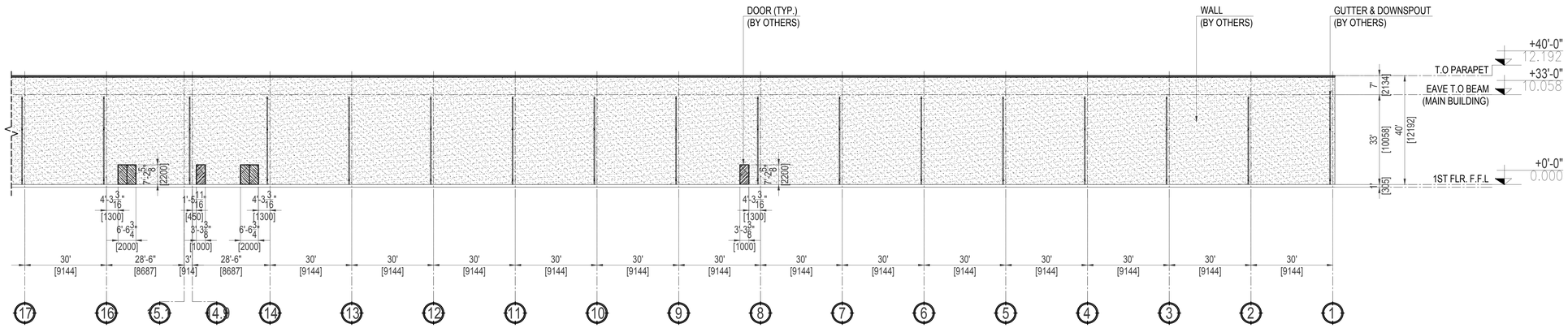
08

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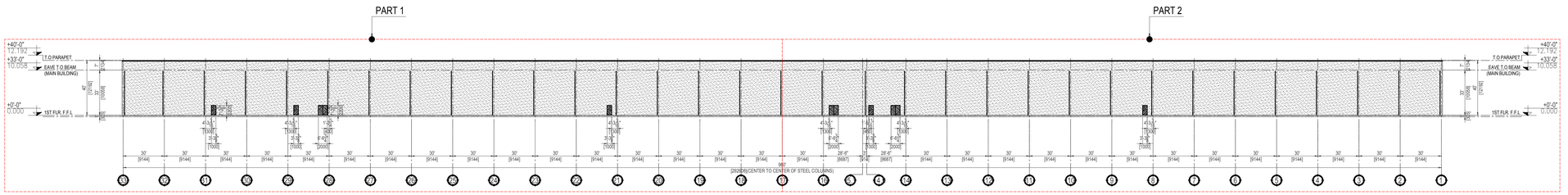
SAMPLE



ELEVATION - 3 (PART 1) SC: 3/112"=1'



ELEVATION - 3 (PART 2) SC: 3/112"=1'



ELEVATION - 3 (OVERALL)

APPROVED

DATE 11/05/2026

DES	DRW	REV

PM/DM

USA

ELEVATION - 3 (OVERALL)

SCALE: 3/112"=1'

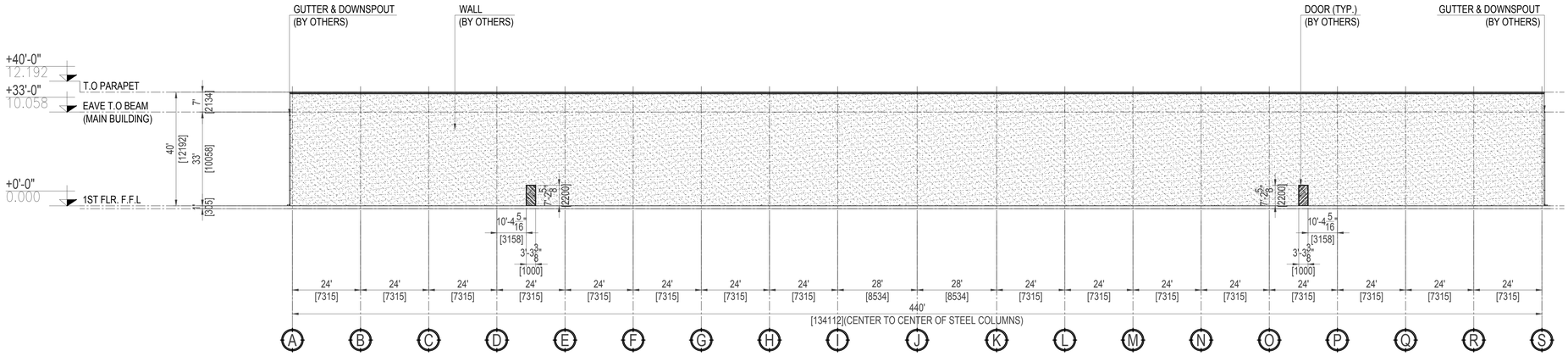
PROJECT NO.: SAMPLE

SHEET 09 OF 13

09

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SAMPLE



ELEVATION - 2 SC: 3/64"=1'

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

ELEVATION - 2

SCALE: 3/64"=1'

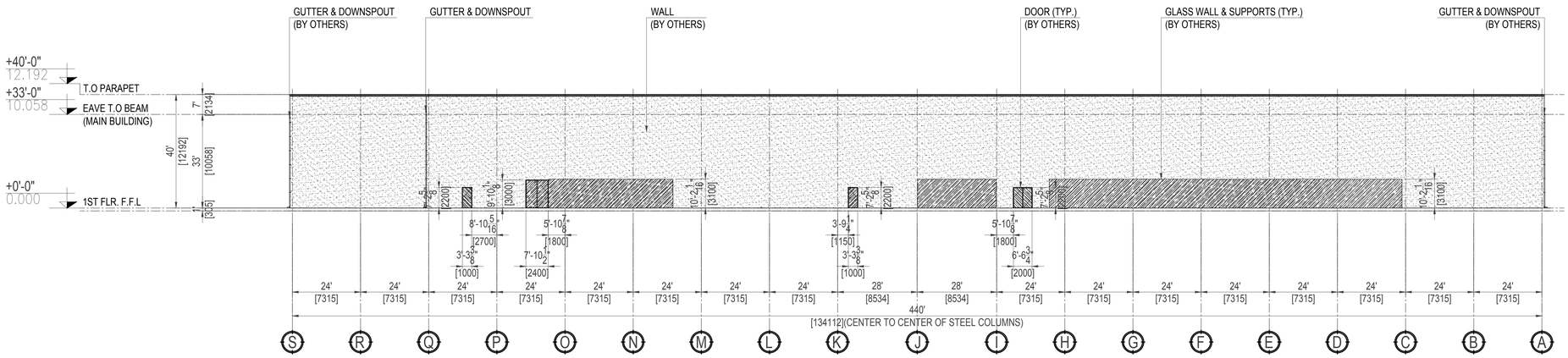
PROJECT NO.: SAMPLE

SHEET 10 OF 13

10

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SAMPLE



ELEVATION - 4 SC: 3/64"=1'

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

ELEVATION - 4

SCALE: 3/64"=1'

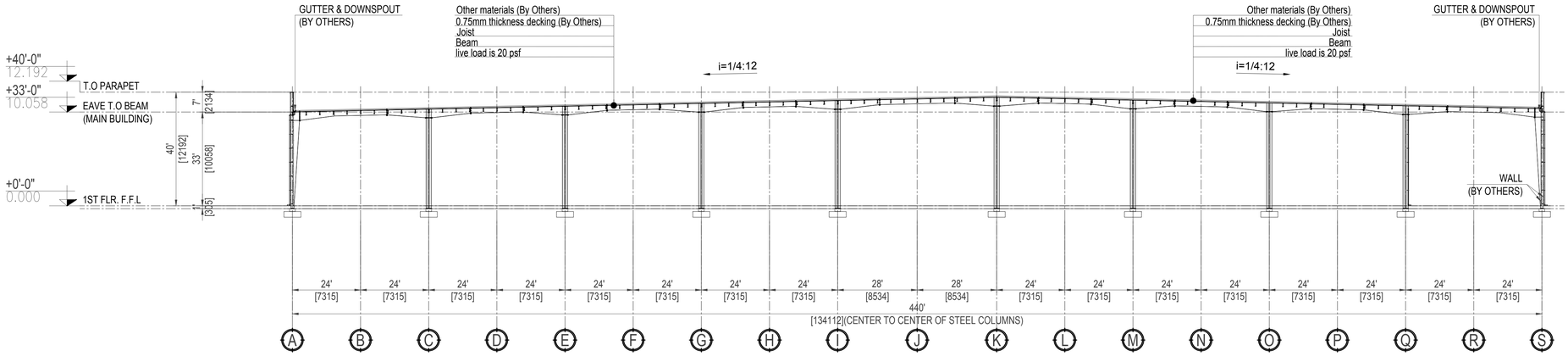
PROJECT NO.: SAMPLE

SHEET 11 OF 13

11

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SAMPLE



CROSS SECTION @ GL.5 (TYP.) SC: 3/64"=1'

APPROVED

DATE 11/05/2026

DES	DRW	REV
PM/DM		

USA

CROSS SECTION @ GL.5 (TYP.)

SCALE: 3/64"=1'

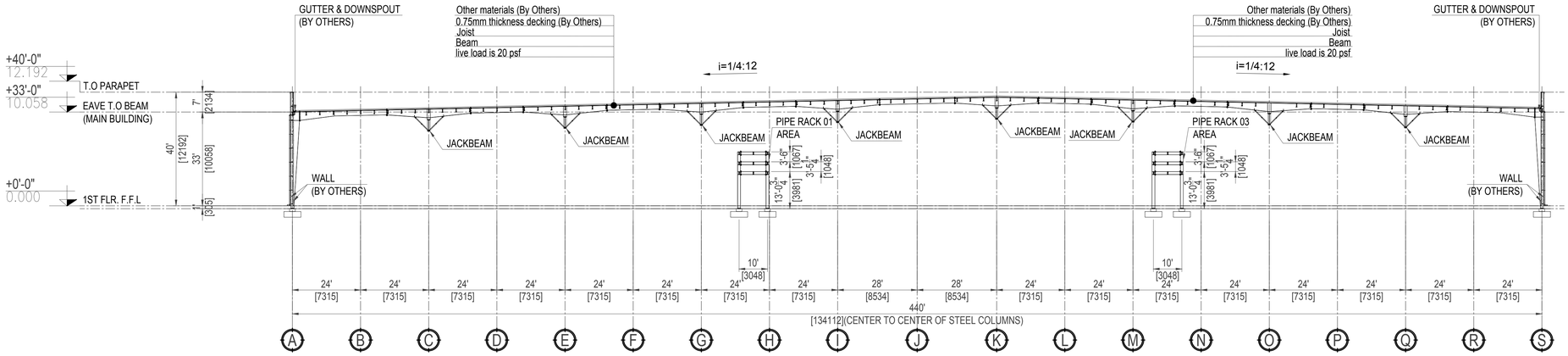
PROJECT NO.: SAMPLE

SHEET 12 OF 13

12

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SAMPLE



CROSS SECTION @ GL.6 (TYP.) SC: 3/64"=1'

APPROVED

DATE 11/05/2026

DES	DRW	REV

PM/DM

USA

CROSS SECTION @ GL.6 (TYP.)

SCALE: 3/64"=1'

PROJECT NO.: SAMPLE

SHEET 13 OF 13

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