

I D E A P U B L I C S C H O O L S
CAMP RIO ADVENTURE ROPES COURSE
BROWNSVILLE, TEXAS

Nov 13, 2024 - 9:41amC:\Users\rgg\Dropbox\2024 IDEA Facilities\Camp Rio Ropes Course\Civil\X-site.dwg

GENERAL NOTES:

ASTM 2959

I. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

2. ALL WORK SHALL CONFORM TO THE FOLLOWING STANDARDS:

2021 INTERNATIONAL BUILDING CODE AISC STEEL CONSTRUCTION MANUAL, 14TH EDITION 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AMERICAN WELDING SOCIETY, DI.I ACI 318-19 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE' ANSI/ACCT-03 2019

3. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE EXTENT OF THE SCOPE OF WORK, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS, AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

4. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE CONSTRUCTION DOCUMENTS BEFORE PROCEEDING WITH THE WORK.

5. ANY DEVIATION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL BEFORE PROCEEDING WITH THE BE HOT DIP GALVANISED STEEL. WORK. SUBSTITUTIONS OF PRODUCTS OR MATERIALS SPECIFIED ON THE CONSTRUCTION DOCUMENTS ARE NOT ALLOWED.

6. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE, AND PROCEDURE OF CONSTRUCTION AS REQUIRED.

REQUIRED TO SUPPORT ALL LOADS TO WHICH FOOTINGS, COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION.

8. CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.

9. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF DRAWINGS BY OTHERS REQUIRE MODIFICATIONS TO STRUCTURAL MEMBERS AS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

CONSTRUCTION NOTES:

I. HORIZONTAL DIMENSIONS SHOWN FOR TIMBER FRAMING ARE APPROXIMATE AND WILL DEPEND ON THE SIZE OF THE TOWER POLES AND BEAMS AT EACH LOCATION. CONTRACTOR SHALL MAKE ADJUSTMENTS AS REQUIRED TO ENSURE THAT COMPLETED ASSEMBLIES ARE PLUMB, FLUSH, LEVEL, AND TIGHT AS SHOWN IN THE DRAWINGS.

2. ALL TIMBER CONNECTIONS TO WOOD POLES SHALL USE OVERSIZED SQUARE WASHERS.

3. BOLT AND THREADED ROD LENGTHS FOR ROUND MEMBERS WILL VARY DEPENDING ON THE SIZE OF THE MEMBERS BEING CONNECTED.

4. ALL JOISTS SHALL BE HUNG TO BEAMS USING RATED JOIST HANGERS UNLESS LEDGER BEAMS ARE SPECIFICALLY NOTED.

5. ALL GUY WIRES SHALL BE Ø1/2 WIRE ROPE (MIN BREAKING STRENGTH = 25,400 LB).

6. MINIMUM EDGE DISTANCE FOR Ø5/8-11 BOLTS IS 2 1/2".

CONCRETE AND FOUNDATION NOTES:

I. ALL CONCRETE IS REINFORCED AND CAST IN PLACE UNLESS OTHERWISE NOTED.

2. ALL STRUCUTRAL CONCRETE SHALL NORMAL WEIGHT CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT TWENTY-EIGHT (28) DAYS.

3. CONCRETE MIXING OPERATION SHALL CONFORM TO ASTM C-94. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR TYPE II, LOW ALKALI. NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33.

4. CONCRETE MIX DESIGN: MAXIMUM WATER-CEMENT RATIO = 0.50 CALCIUM CHLORIDE ADMIXTURES ARE PROHIBITED

5. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 301 AND CONTRACT DOCUMENTS.

6. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. EXPOSED PORTIONS OF ANCHOR ROD THREADS SHALL BE PROTECTED FROM CONCRETE DURING POURING.

7. ONLY POUR CONCRETE IF LOW AND HIGH TEMPERATURES FOR ANY POINT UP TO FIVE (5) DAYS AFTER POURING ARE BETWEEN 35°F AND 85°F.

STEEL, FABRICATION, AND MATERIAL NOTES:

PLATE: ASTM A36

I. MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

ANGLES: ASTM A36 PIPE: ASTM A53 BOLTS: ASTM A307 UNLESS SPECIFIED OTHERWISE THREADED ROD: ASTM A193, GRADE B7 NUTS: ASTM A563 WASHERS: ASTM F436 ANCHOR BOLTS: ASTM F-1554 REINFORCING BARS: ASTM 615, GRADE 60 TIMBER POLES: CLASS II SOUTHERN PINE DIMENSIONAL LUMBER: NO. 2 SOUTHERN PINE WIRE ROPE: AS SPECIFIED

2. ALL STEEL WELDMENTS SHALL BE PAINTED OR HOT-DIPPED GALVANISED.

3. ALL HARDWARE SHALL BE RATED FOR USAGE AS PER MINIMUM WORKING LOAD LIMITS SPECIFIED.

4. ALL CONNECTIONS, WIRE ROPE, WASHERS, AND STRUCTURAL COMPONENTS SHALL

5. ALL TIMBER POLES SHALL BE GRADED SOUTHERN PINE. ALL DIMENSIONAL LUMBER SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE AND GRADED FOR STRUCTURAL USAGE.

USAGE NOTES:

7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES AND GUY CABLES I. ADVENTURE PARK AND ZIP LINE TO BE USED SOLELY BY CAMP RIO PATRONS AND TO BE OPERATED BY CAMP RIO STAFF MEMBERS WHO HAVE BEEN TRAINED IN ITS PROPER USAGE.

2. MAXIMUM PARTICIPANT WEIGHT OF 250 LB.

3. MAXIMUM OF ONE (I) PARTIPICANT AND ONE (I) RESCUER PER ELEMENT.

4. STRUCTURE NOT TO BE USED WHEN WIND SPEEDS EXCEED 35 MPH.

5. STRUCTURE AND ALL ASSOCIATED STEEL HARDWARE SHALL BE INSPECTED REGULARLY FOR WORN, CORRODED, OR DAMAGED COMPONENTS, WHICH SHALL BE REPLACED PRIOR TO USAGE. SPECIAL CARE SHALL BE TAKEN TO REVIEW COMPONENTS THAT DIRECTLY SUPPORT HUMAN LIFE AND MORE FREQUENT INSPECTIONS ARE RECOMMENDED TO ENSURE THAT ALL COMPONENTS ARE FREE OF DAMAGE AND SAFE FOR USE.

6. PERFORM ALL INSPECTIONS AND MONITORING PER ACCT AND ASTM.

LOADING NOTES:

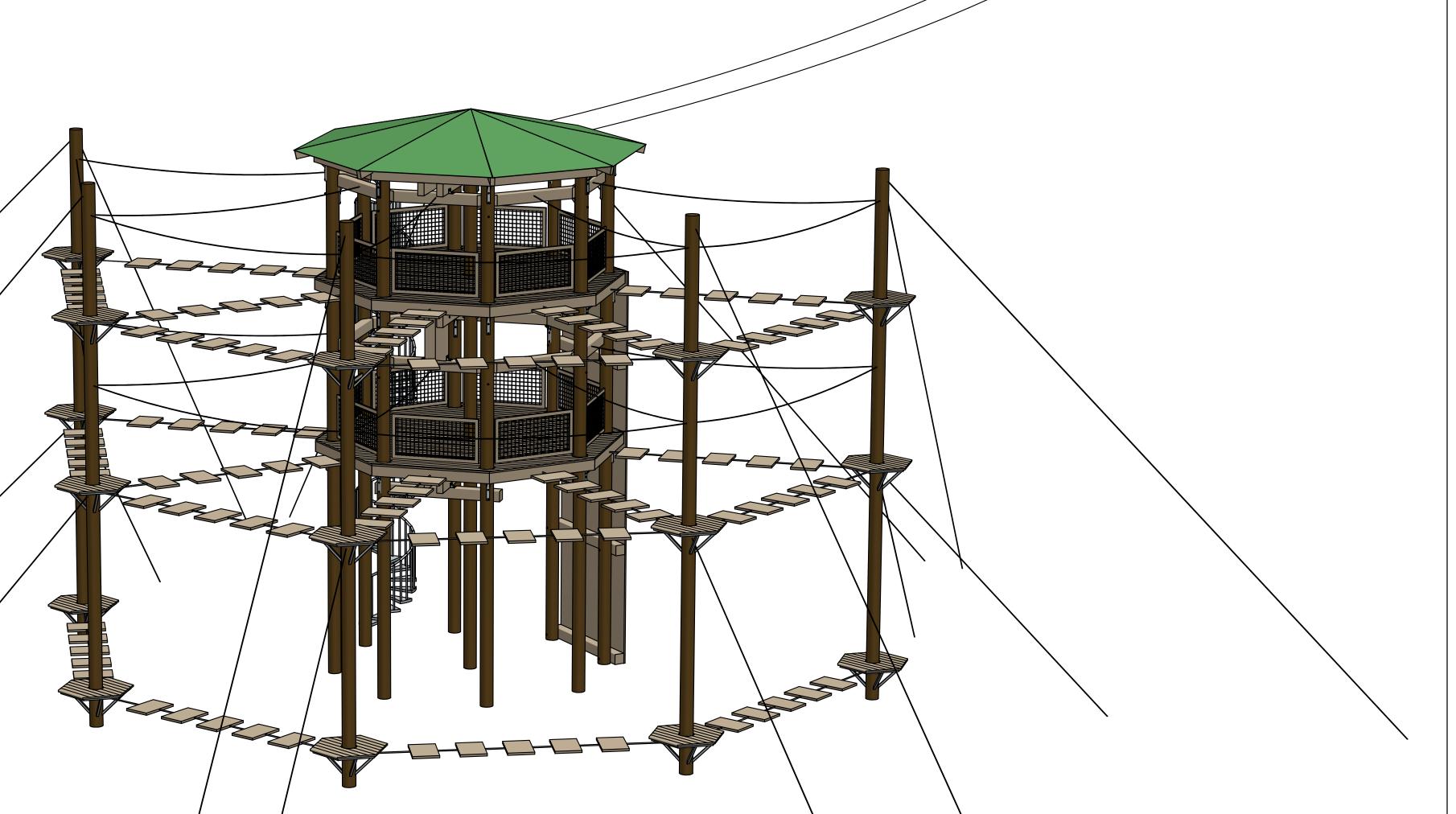
STRUCTURE IS DESIGNED ACCORDING TO FOLLOWING LOADS:

60 PSF ON ALL PLATFORMS 100 PSF ON STAIRS

143 MPH EXPOSURE CATEGORY "C" Kz = 0.94, Kd = 0.85qz = 41.8 PSF

SEISMIC:

SEISMIC DESIGN CATEGORY "A" Ss = 0.038, SI = 0.013, Sms = 0.060 SmI = 0.030 Sds = 0.040, SdI = 0.020 LATERAL FORCE RESISTING SYSTEM IS GUYED POLES





OVERVIEW & NOTES

DIMENSIONS IN INCHES

TOLERANCES

1 PL. ±0.1 2 PL. ±0.02 3 PL. ±0.005 ANGLE ±1° FRACTION ±1/16

12 NOVEMBER 2024 DAVID J. HODGES, P. E.

REVISIONS

DESCRIPTION

SPECIFIED MFG AND PART NUMBERS FOR HARDWARE

APPROVED

DATE

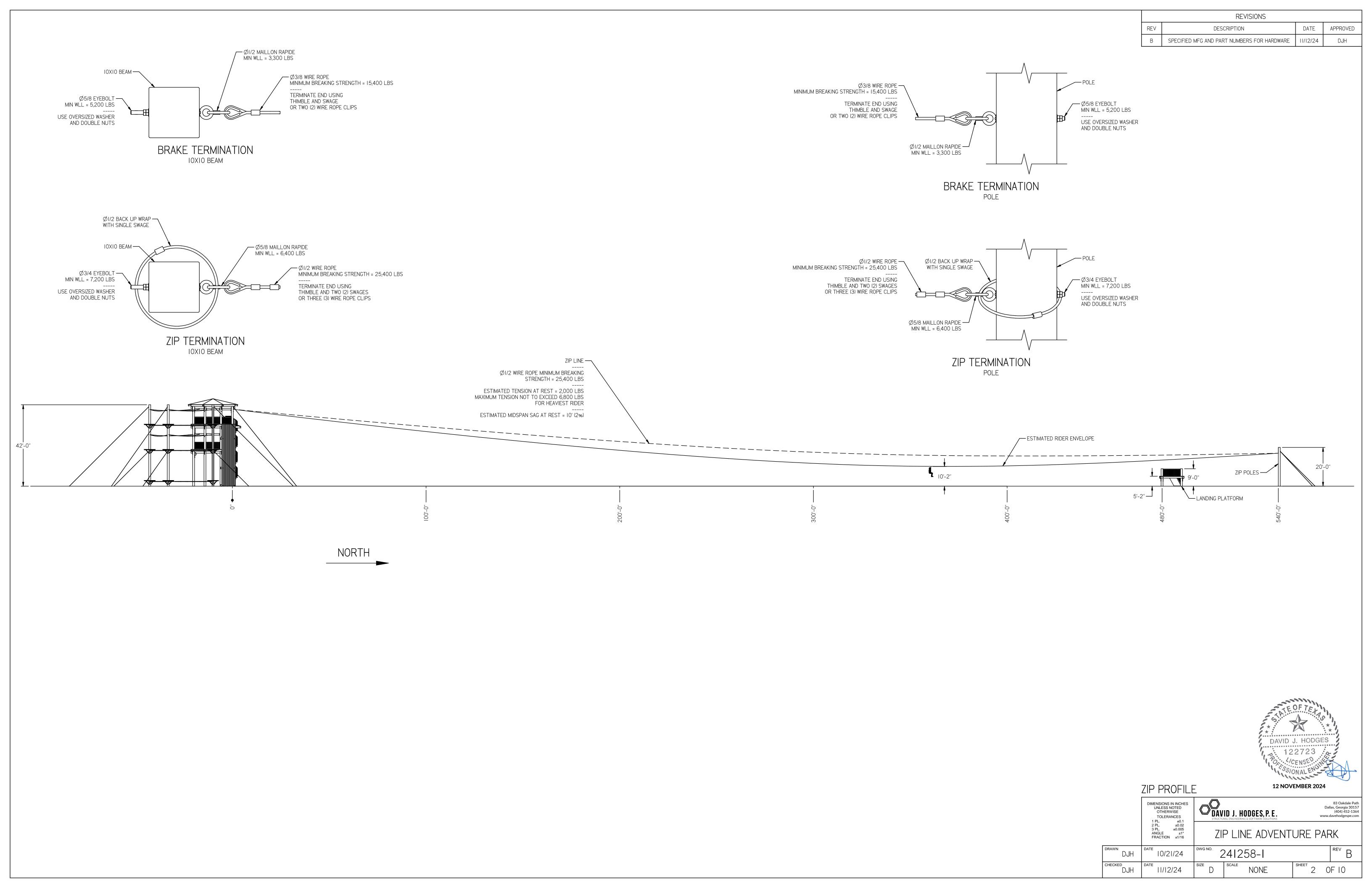
11/12/24

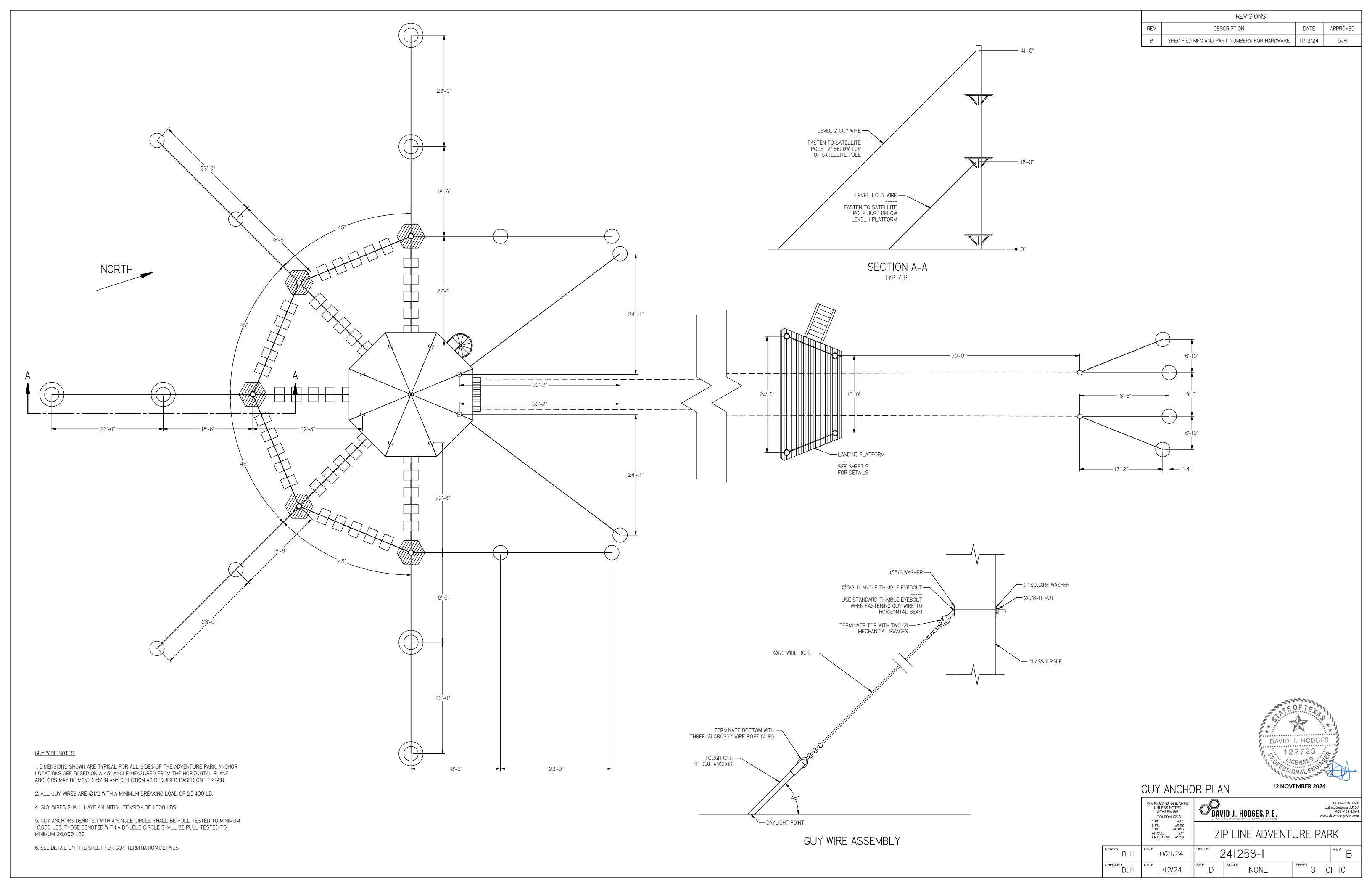
ZIP LINE ADVENTURE PARK

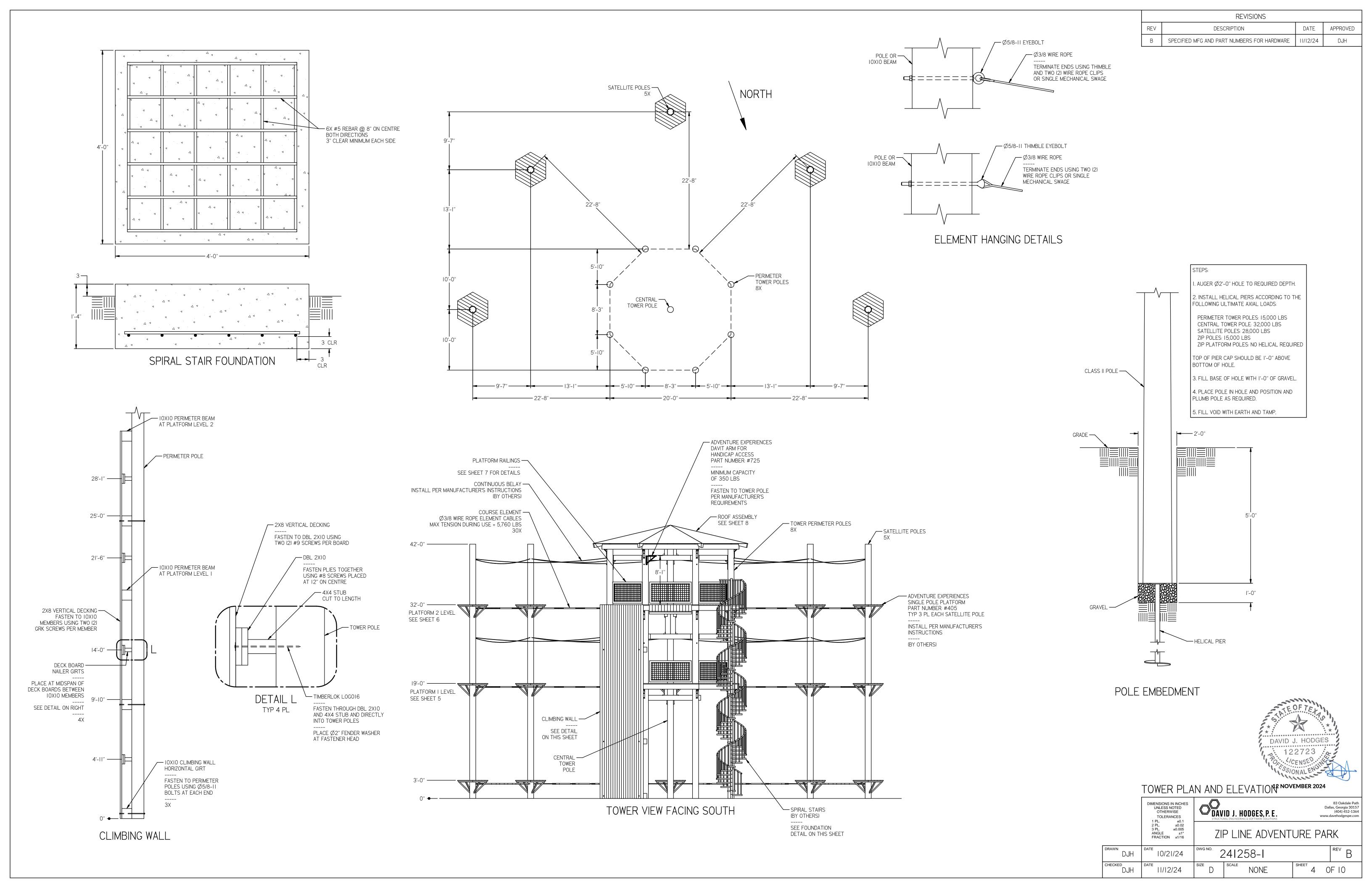
83 Oakdale Path Dallas, Georgia 30157 (404) 452-1364 www.davehodgespe.com

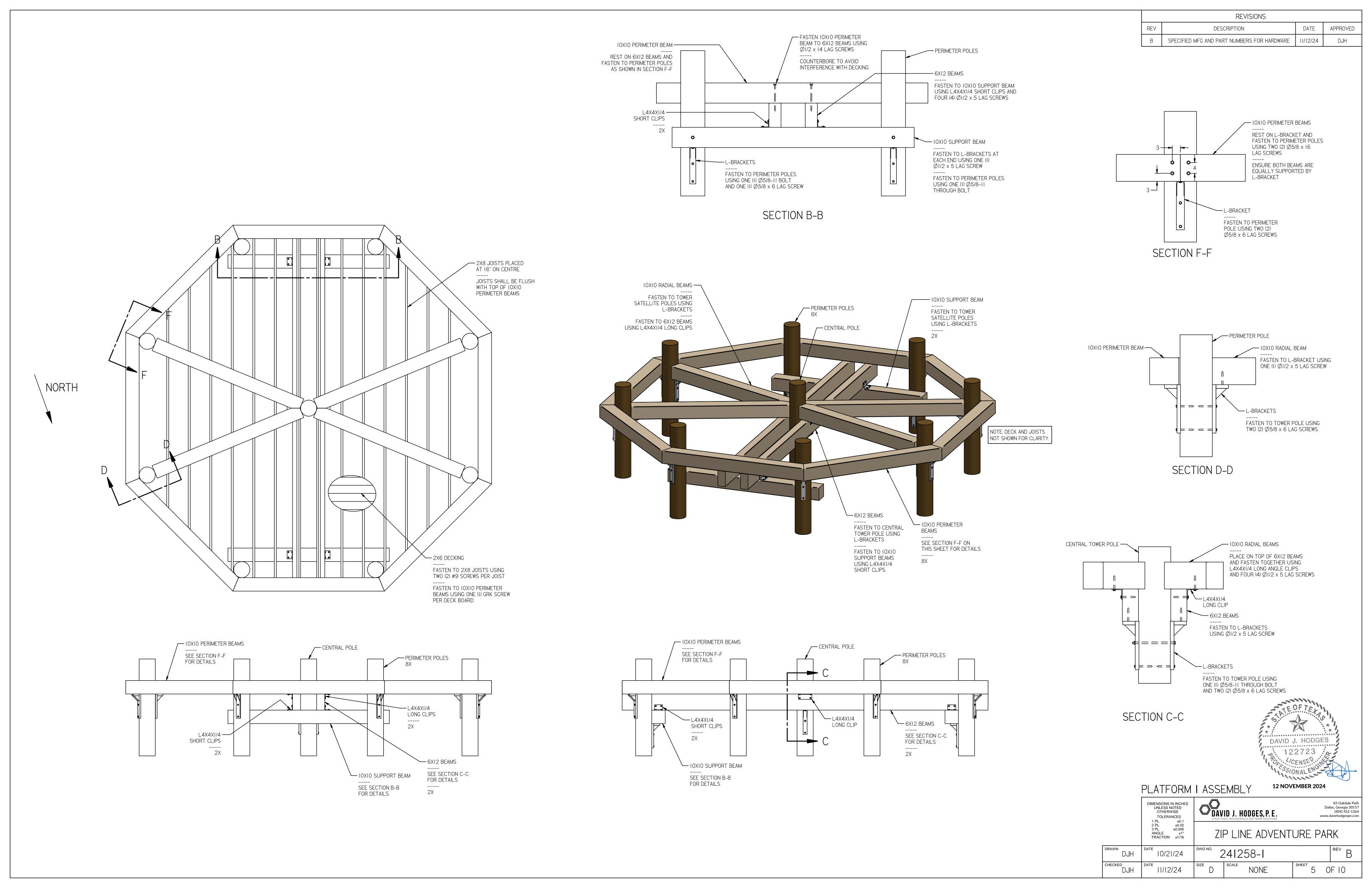
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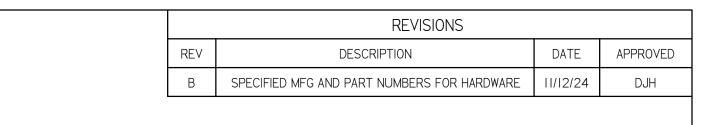
280 FISH HATCHERY ROAD BROWNSVILLE, TEXAS 78520

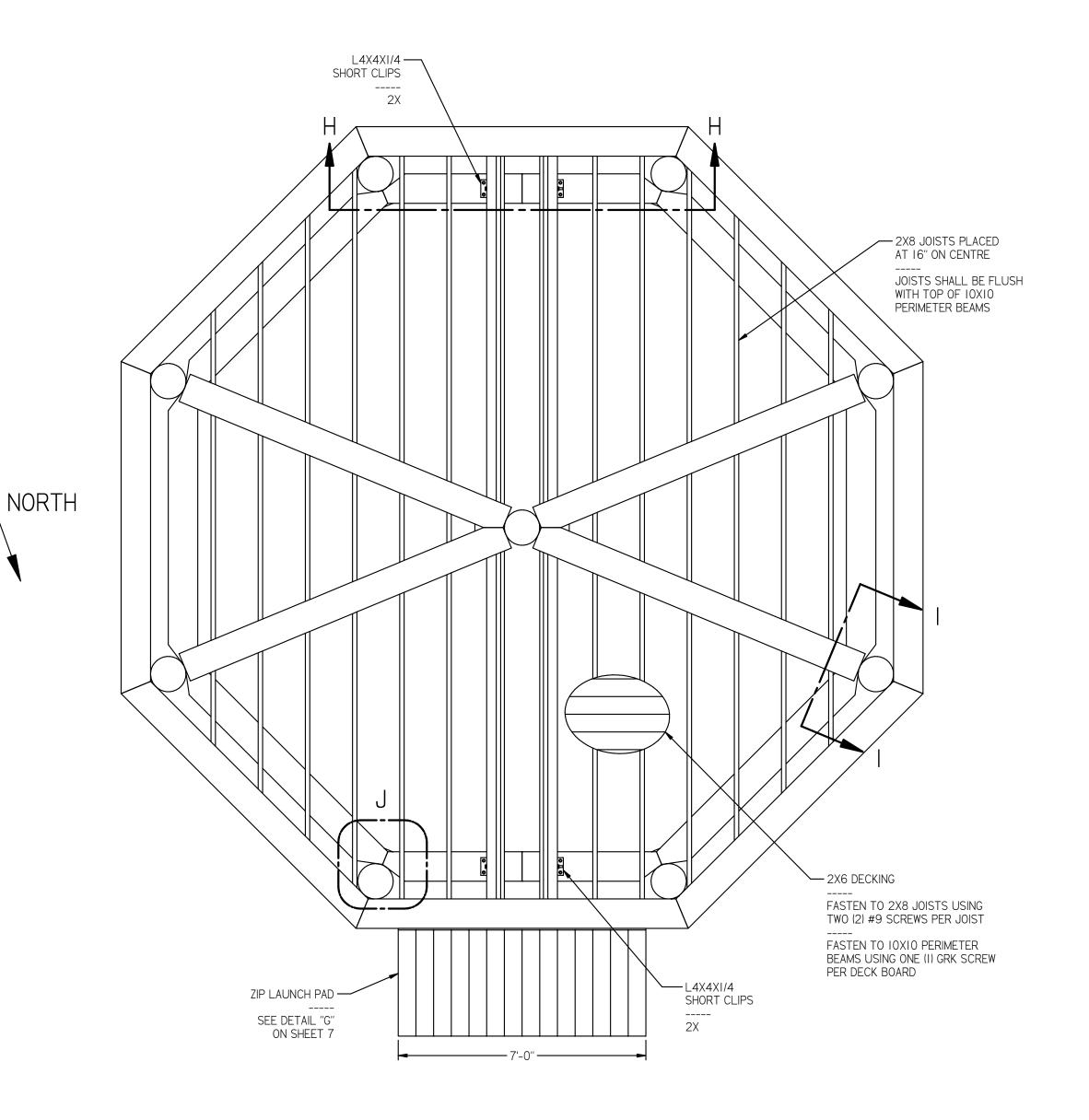


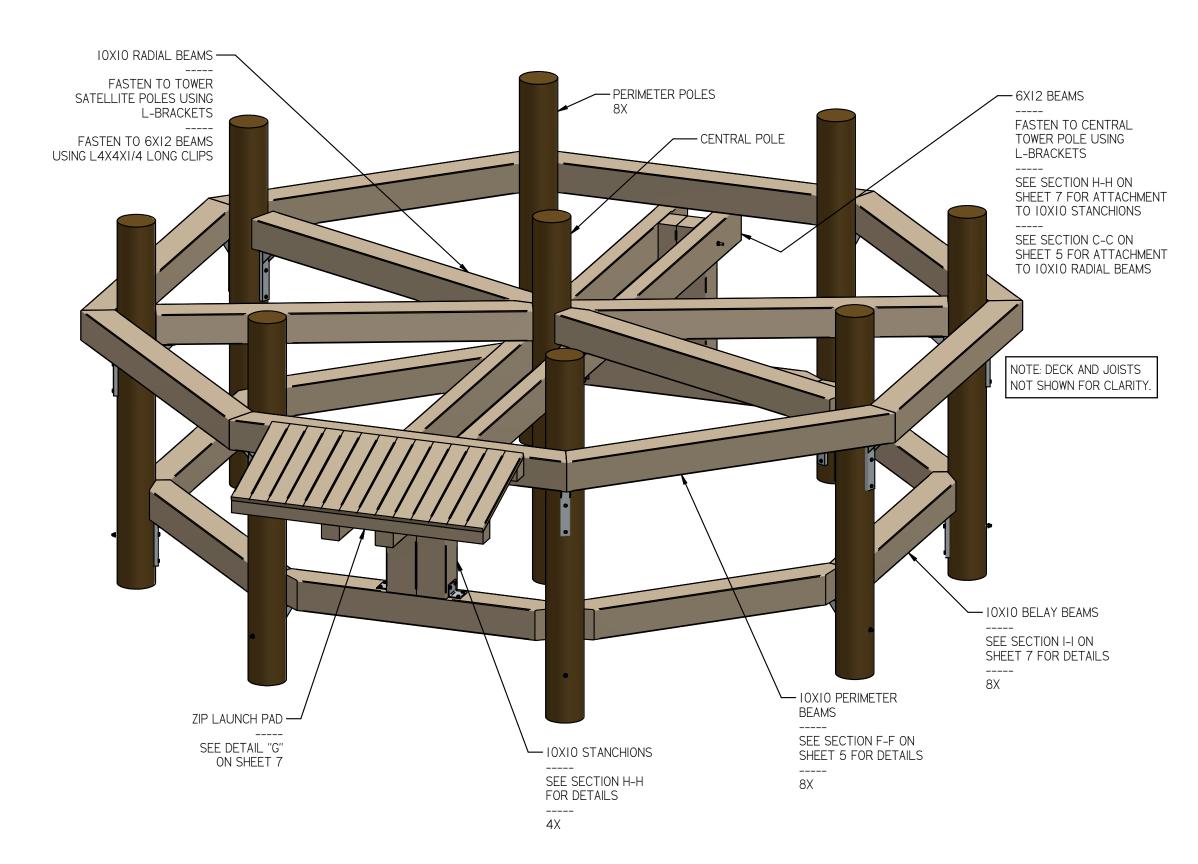


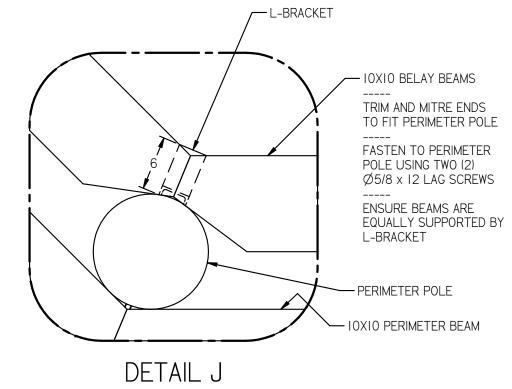


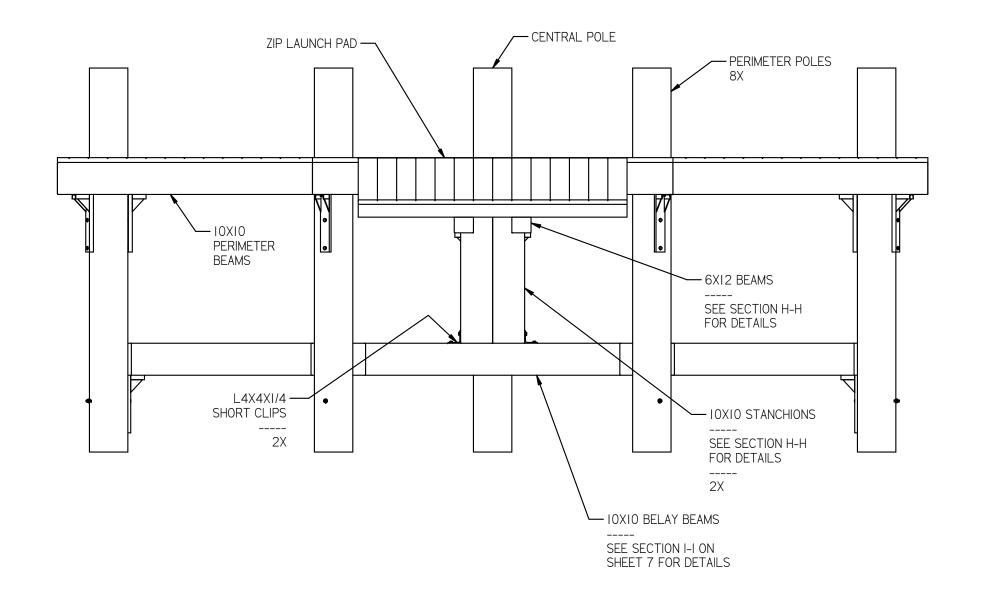


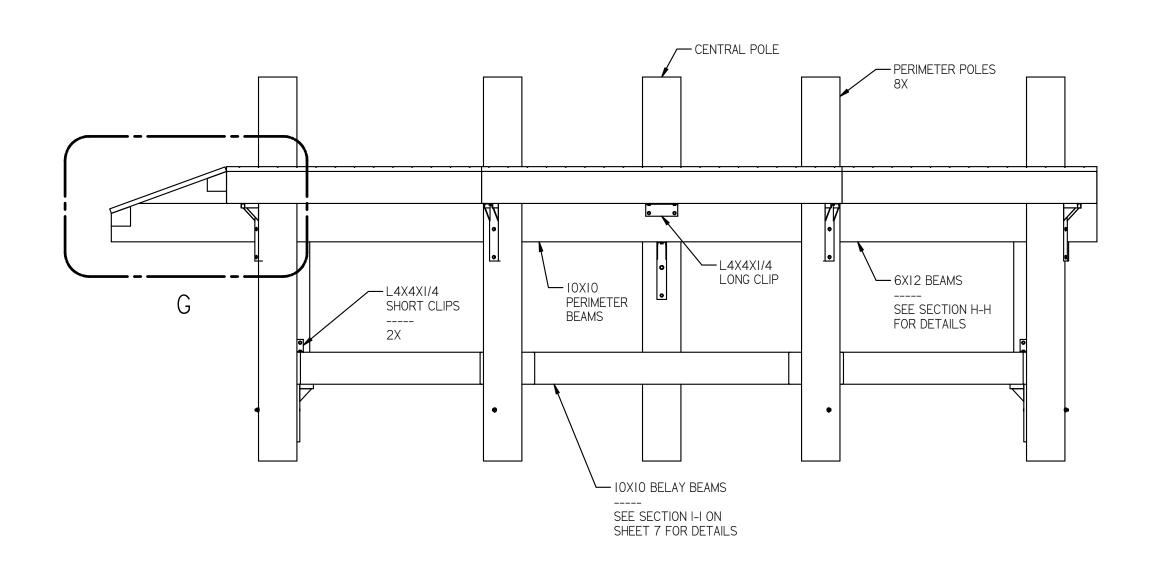


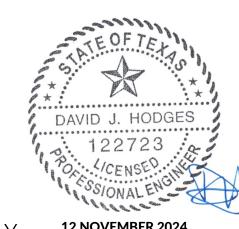




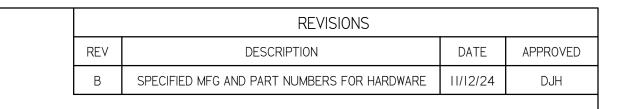


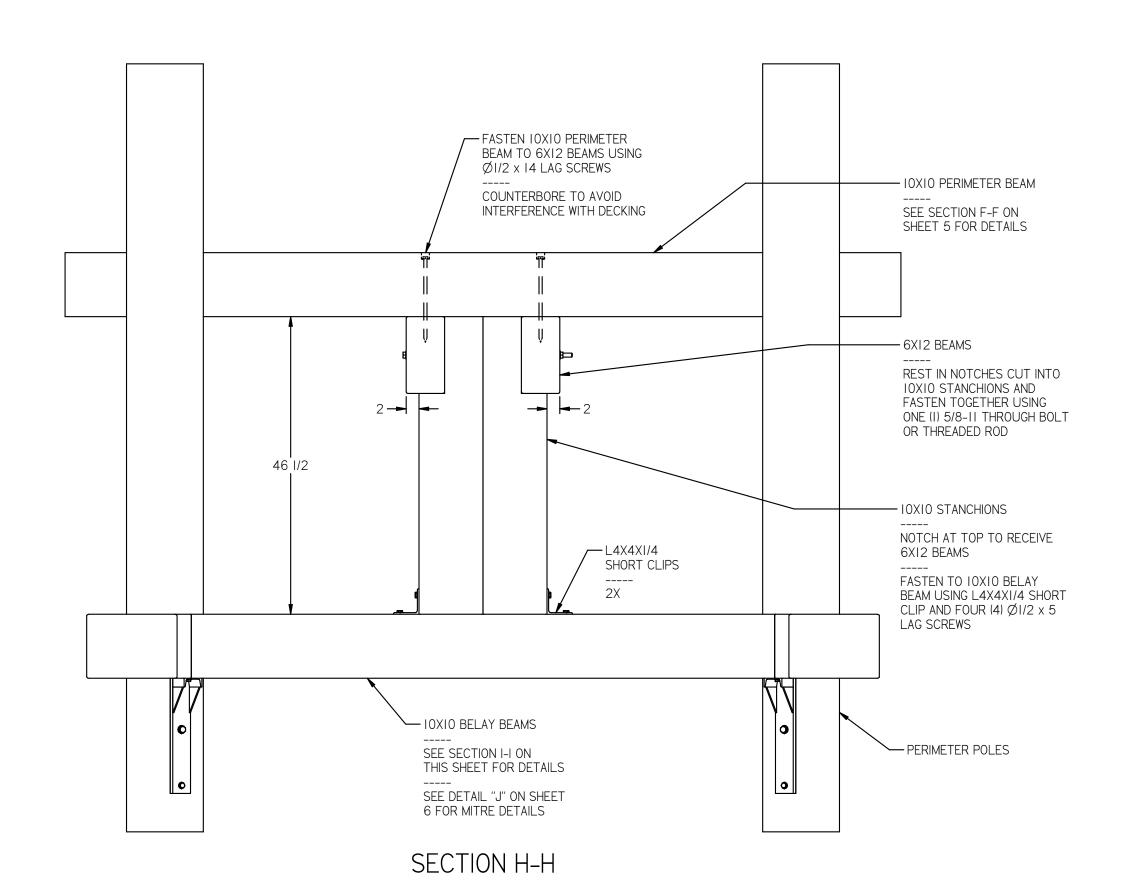


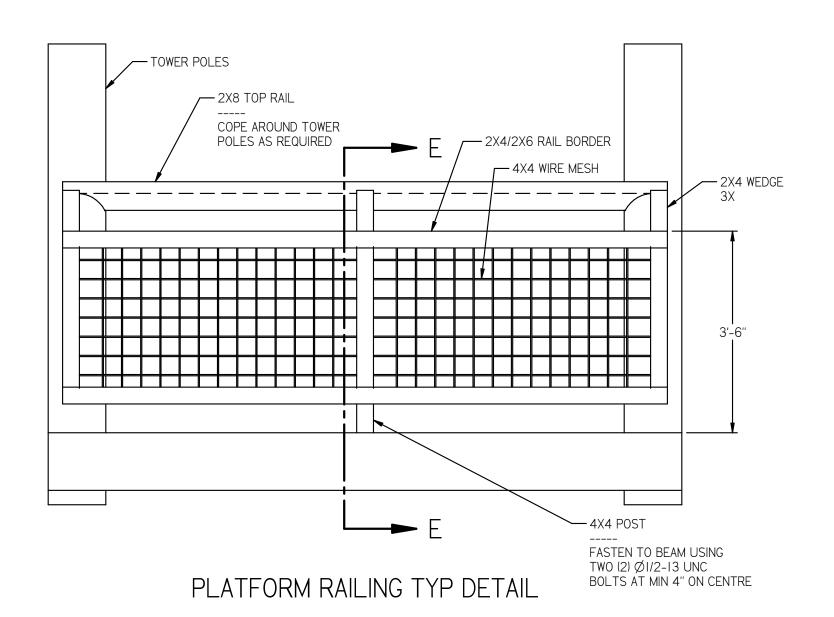


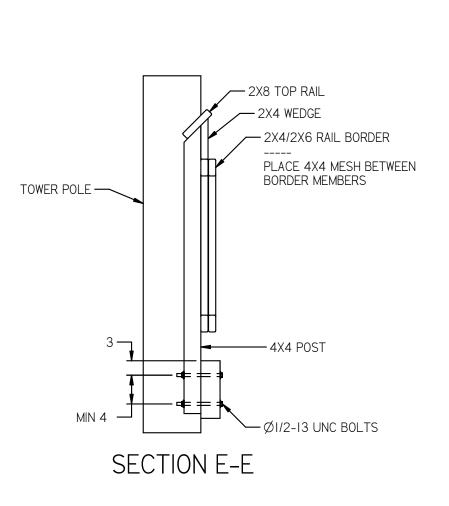


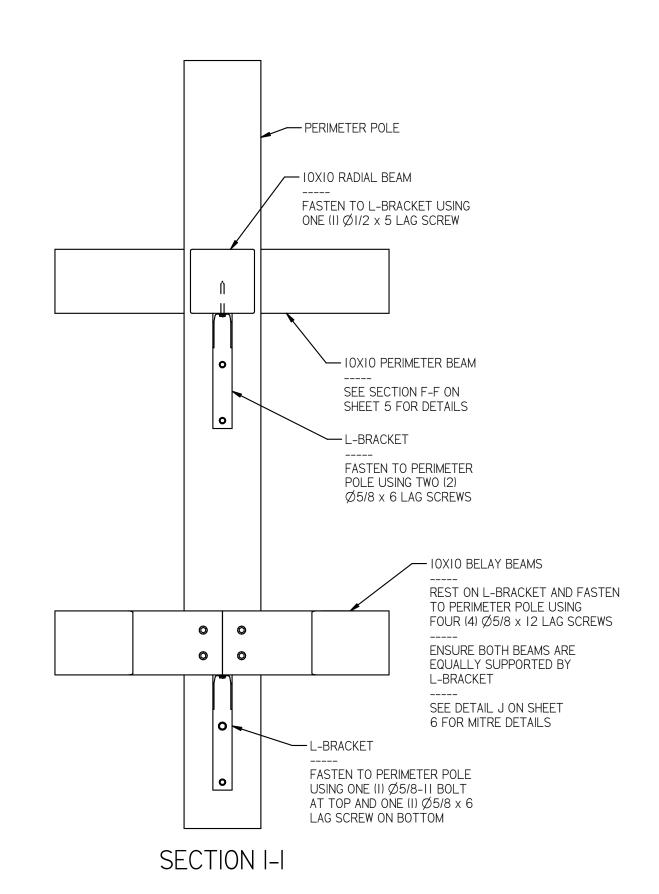
PLATFORM 2 ASSEMBLY 12 NOVEMBER 2024							
	DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE TOLERANCES 1 PL. ±0.1	DAVID J. HODGI STRUCTURAL ENGINEERING & SOFTW			83 Oakdale Path Dallas, Georgia 30157 (404) 452-1364 w.davehodgespe.com		
	2 PL. ±0.02 3 PL. ±0.005 ANGLE ±1° FRACTION ±1/16	ZIP LINE ADVENTURE PARK					
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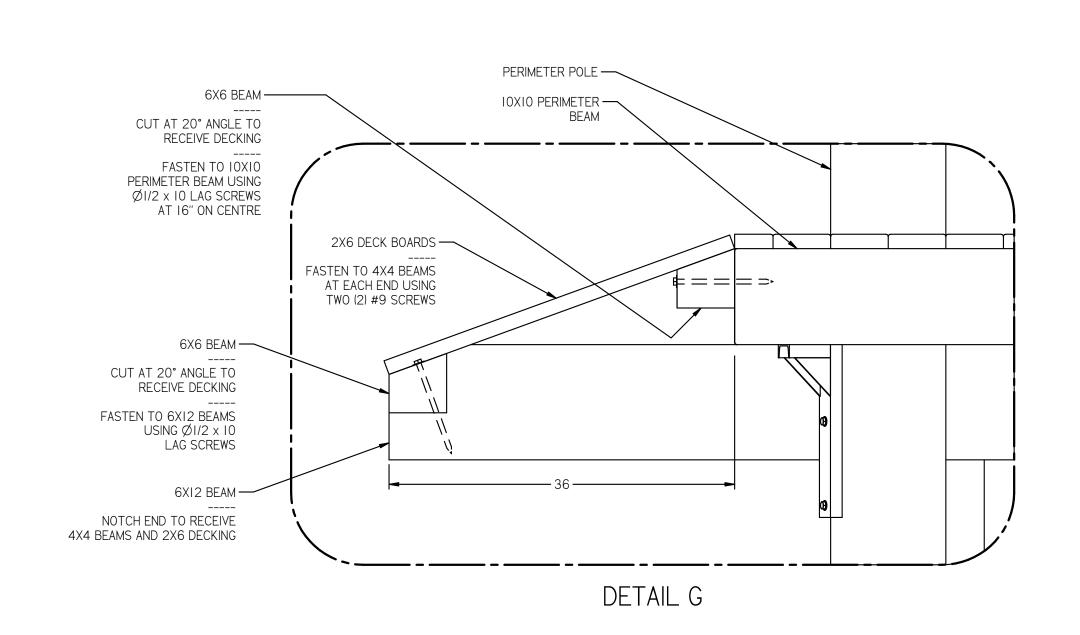






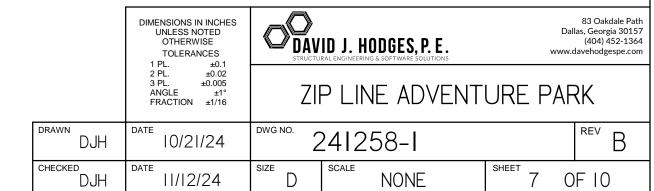


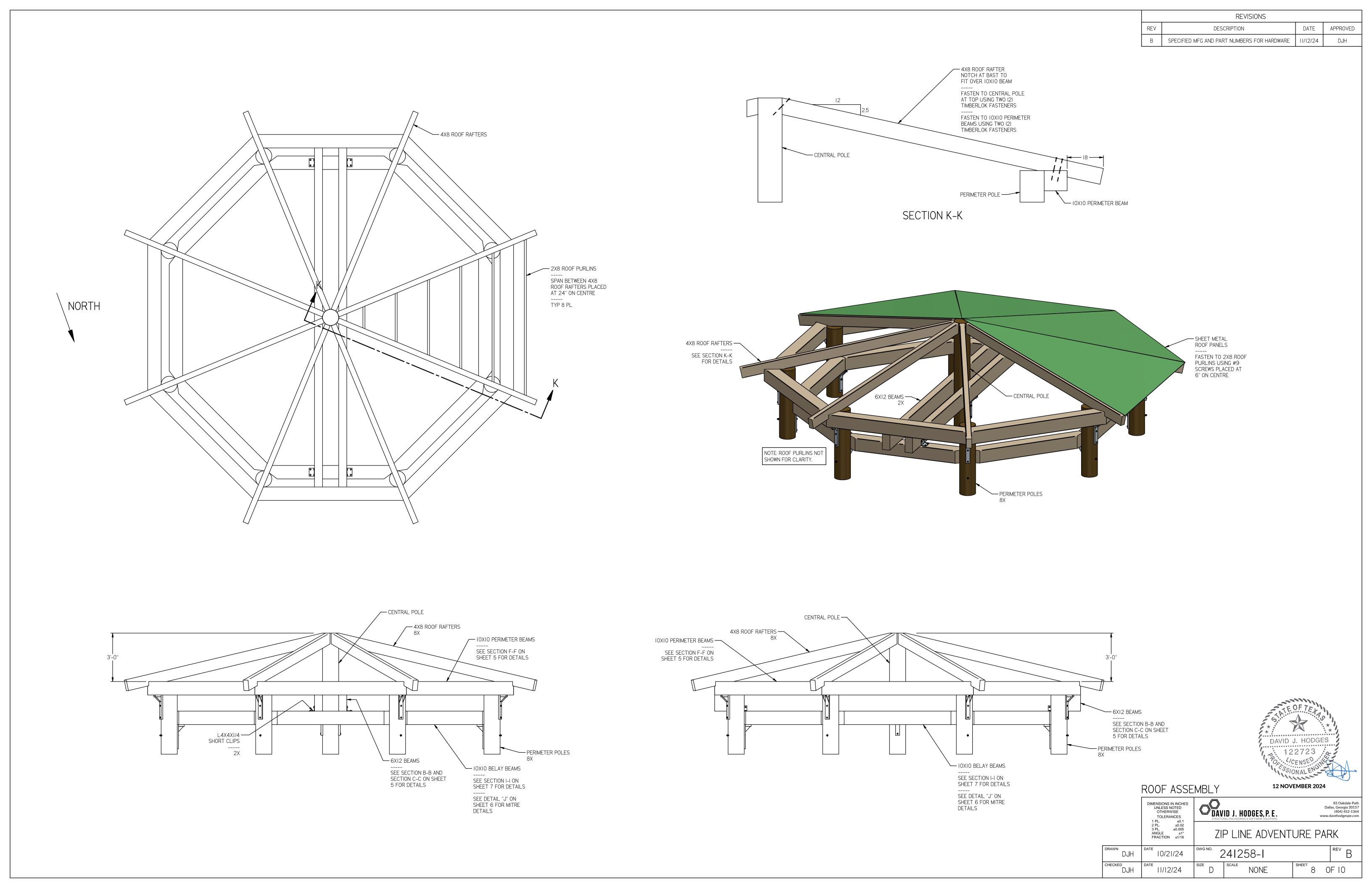


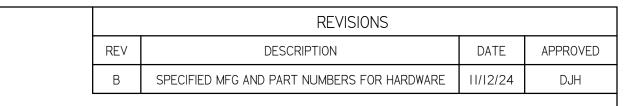


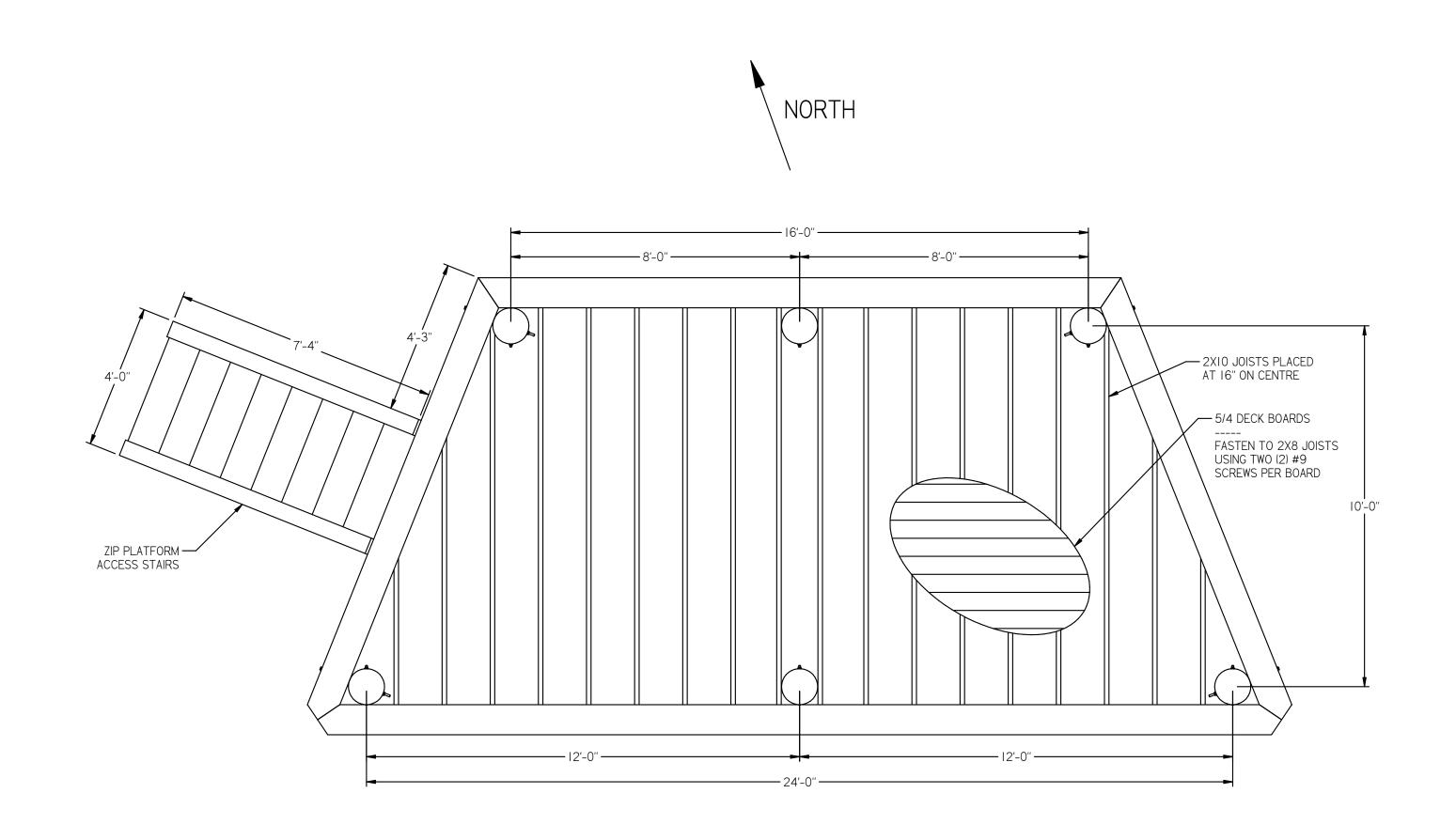


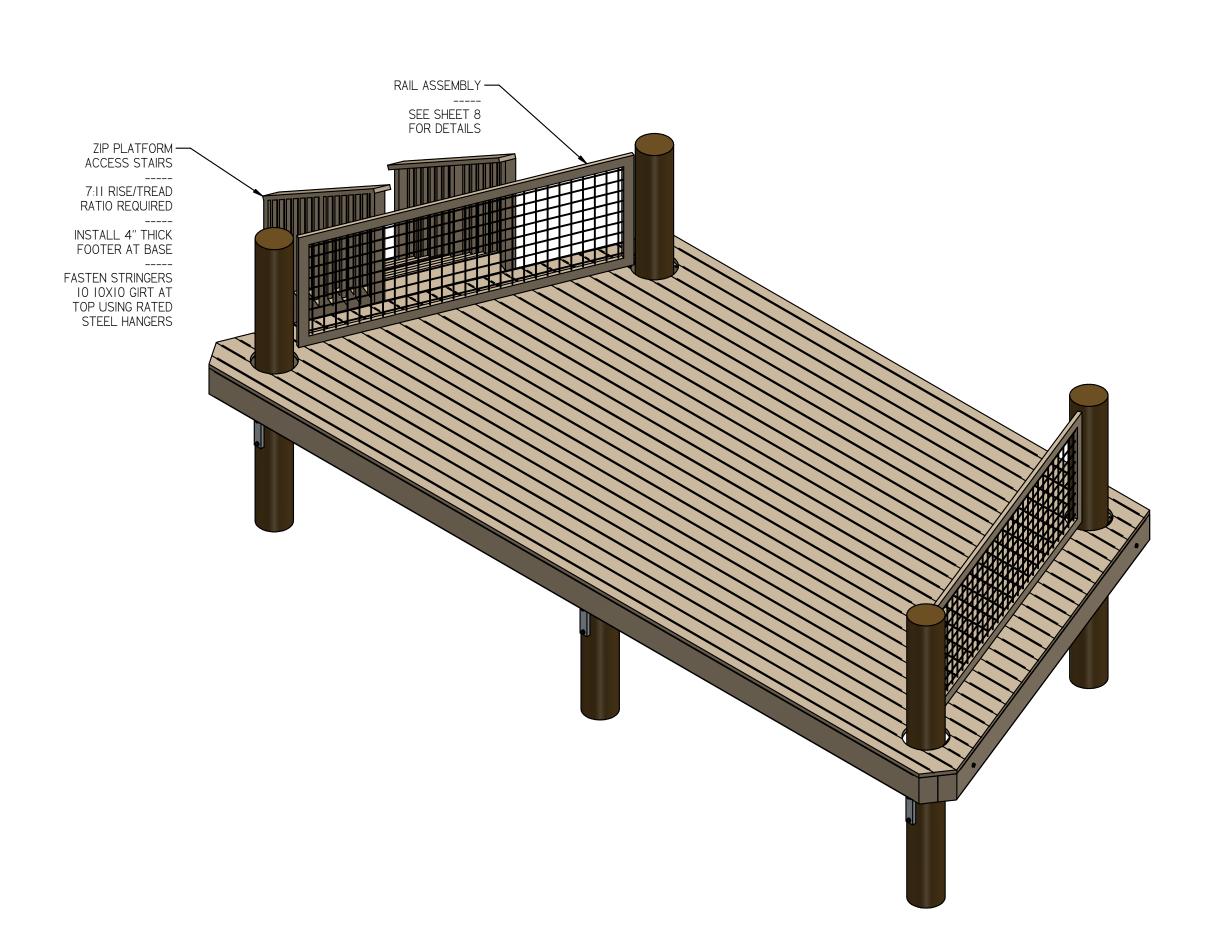
PLATFORM 2 ASSEMBLY

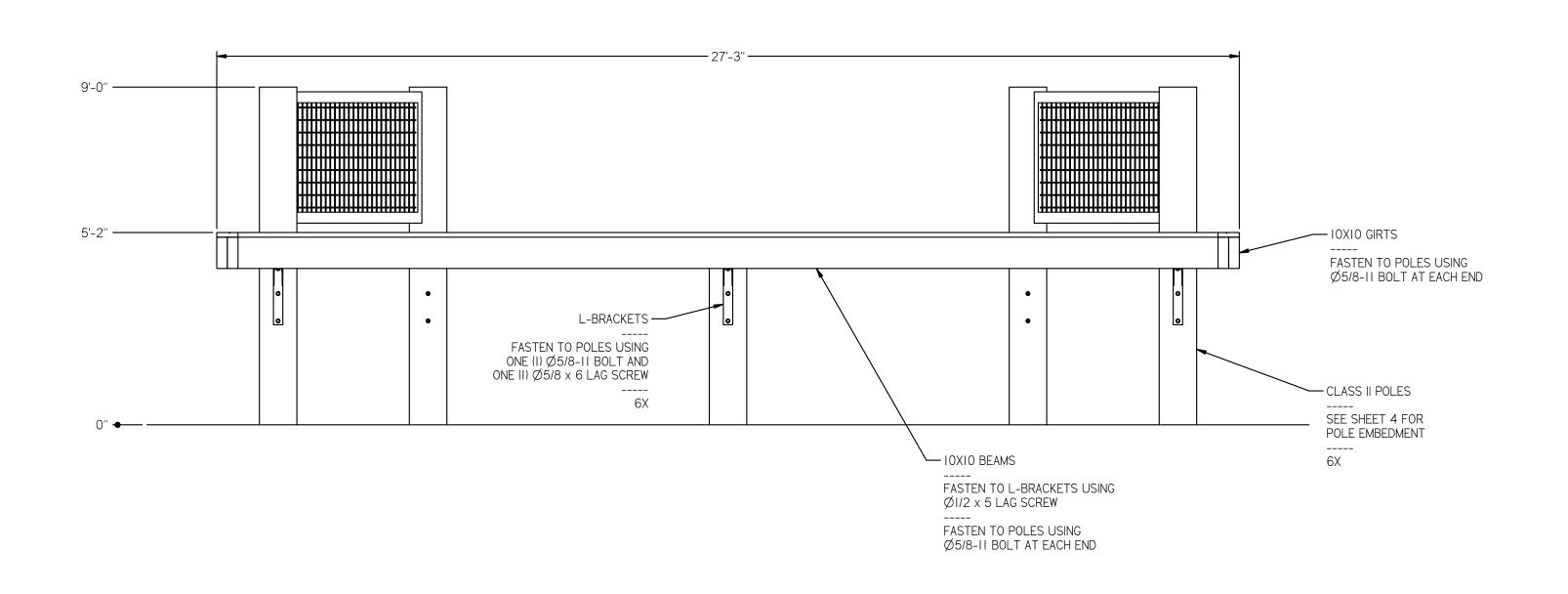


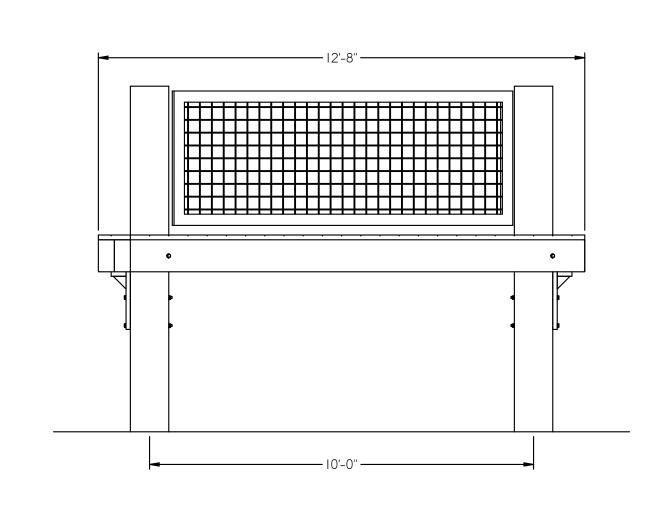


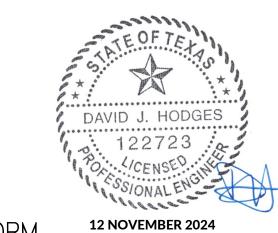








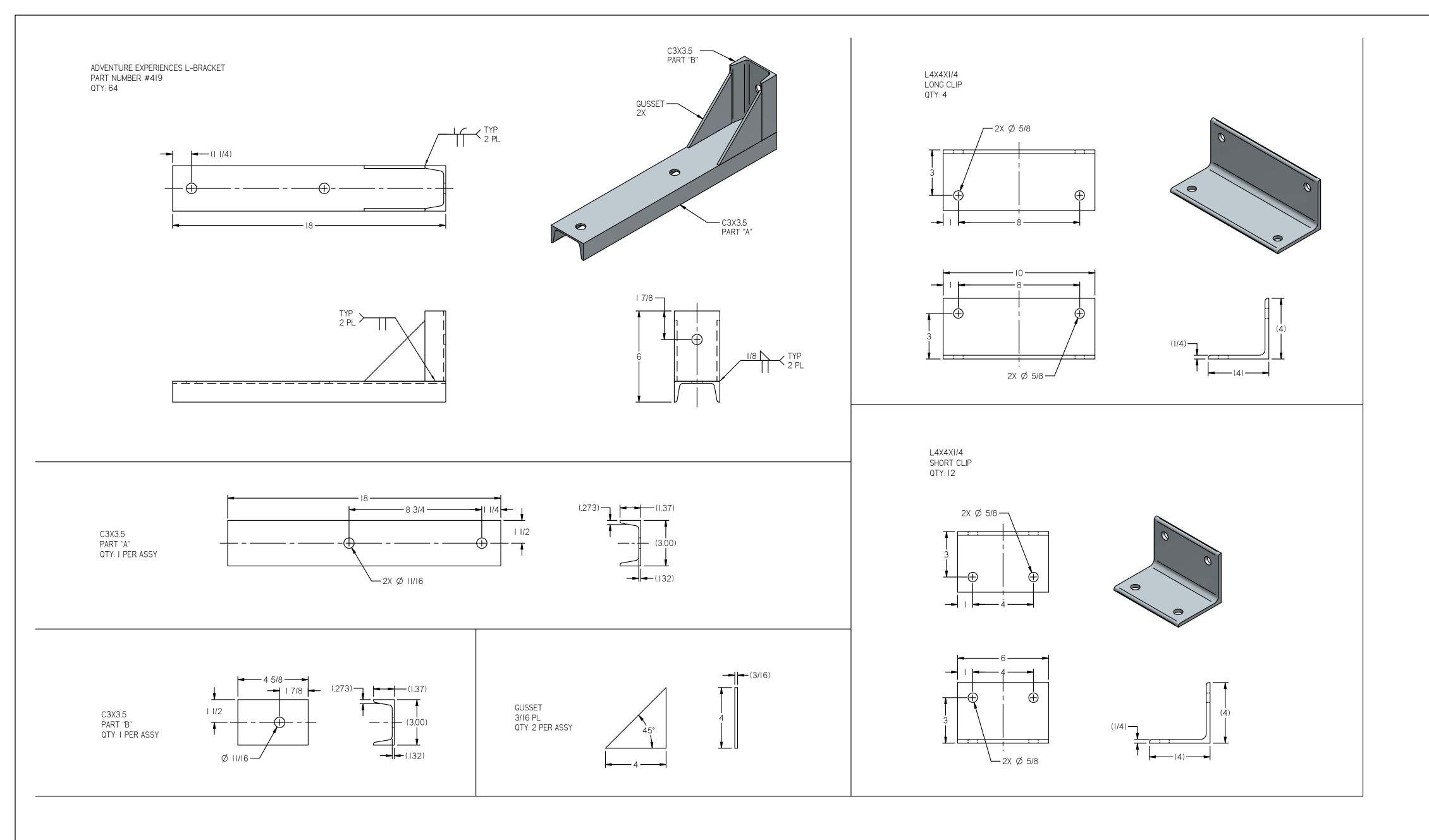


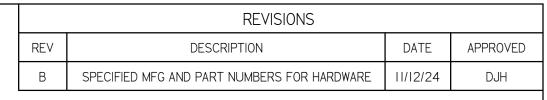


ZIP LANDING PLATFORM



DJH	10/21/24	DWG NO.	241258-1		REV B
DJH	DATE	SIZE D	scale NONE	SHEET 9 (F 10







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FABRICATION DETAILS

DAVID J. HODGES, P. E.
STRUCTURAL ENGINEERING & SOFTWARE SOLUTIONS

ZIP LINE ADVENTURE PARK

DWG NO. 241258-1 DJH CHECKED DJH 11/12/24

SCALE NONE IO OF IO