## GENERAL STRUCTURAL NOTES:

- 1. BUILDING CODE: BUILDING CODE OF NEW YORK STATE, LATEST EDITION
- 2. CONSTRUCTION LOADING: DURING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL LIMIT AND CONTROL CONSTRUCTION LOADING, INCLUDING BUT NOT LIMITED TO: a. MATERIAL STOCKPILING AND EQUIPMENT TO PRECLUDE OVERSTRESSING, CONSTRUCTION LIVE LOAD IN EXCESS OF 20 PSF, OR
- DAMAGE TO ANY STRUCTURAL ELEMENT.
- 3. COORDINATION WITH OTHER DISCIPLINES: THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE
- ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS. 4. EXISTING CONDITIONS: THE INFORMATION SHOWN ON THESE DOCUMENTS IS THE BEST REPRESENTATION OF EXISTING CONDITIONS AVAILABLE TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND BRING TO THE ENGINEER'S AND CONSTRUCTION MANAGER'S ATTENTION ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- 5. EXISTING STRUCTURES: ALL EXISTING STRUCTURES ADJACENT TO NEW WORK ARE TO BE ADEQUATELY PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING
- CONSTRUCTION DAMAGED WHILE WORK IS IN PROGRESS. 6. OPENINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE AND LOCATION OF ALL OPENINGS IN NEW AND EXISTING CONSTRUCTION WITH THE DISCIPLINE REQUIRING THEM.

### FOUNDATION NOTES:

- 1. NO GEOTECHNICAL INFORMATION WAS AVAILABLE AT THE TIME OF DESIGN. ASSUMED ALLOWABLE BEARING PRESSURE = 1,500 PSF. 2. TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING OR DRILLING ADJACENT TO EXISTING STRUCTURES TO AVOID DISTURBING EXISTING FOUNDATIONS. DO NOT EXCAVATE BELOW EXISTING FOUNDATIONS. CONTACT THE ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWING.
- 3. ALL EXCAVATIONS SHALL FULLY CONFORM TO LOCAL, STATE AND FEDERAL SAFETY REGULATIONS. 4. DO NOT BACKFILL AGAINST CONCRETE ELEMENTS UNTIL PLACED CONCRETE HAS REACHED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- 5. ALLOW TESTING AGENCY TO INSPECT AND APPROVE ALL COMPACTED SUBGRADE AND FILL LAYERS PRIOR TO FURTHER BACKFILL
- AND/OR PLACEMENT OF CONCRETE. TESTING AND INSPECTION RESULTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. 6. THE SUITABILITY AND STABILITY OF EXISTING SOILS AND FILL. THE DEPTHS AND LATERAL LIMITS OF UNSUITABLE MATERIAL TO BE
- REMOVED, AND ADEQUACY OF FOUNDATION BEARING GRADES SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
- 7. BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR
- TEST (ASTM D-1557). ALL EXISTING BACKFILL SHALL BE RECOMPACTED AS SUCH. 8. EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR BY PUMPING FROM SUMPS AS REQUIRED.

### CONCRETE NOTES:

1. SUBMITTALS a. SUBMIT SHOP DRAWINGS FOR REINFORCING, INCLUDING ALL NECESSARY ACCESSORIES TO HOLD REINFORCING SECURELY IN PLACE, FOR REVIEW AND APPROVAL, WHERE RESUBMITTAL OF SHOP DRAWINGS IS REQUIRED, ALL REVISIONS SHALL BE CLEARLY IDENTIFIED BY CLOUDING AND REVISION TAGS.

- b. SUBMIT FOR REVIEW ALL MATERIALS AND METHODS FOR CONCRETE CURING. 2. PROVIDE THE FOLLOWING MINIMUM CONCRETE CLEAR COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED .:
- a. CONCRETE PLACED AGAINST EARTH: 3.0 IN.
- b. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
- #6 THROUGH #18 BARS: 2.0 IN.
- #5 BARS AND SMALLER: 1.5 IN. c. FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
- #14 AND #18 BARS: 1.5 IN.
- 1.0 IN. #11 BARS AND SMALLER:
- 3. ALL CONCRETE WORK, CONSTRUCTION, AND REINFORCING DETAILS SHALL CONFORM TO THE "BUILDING CODE OF NEW YORK STATE, LATEST EDITION.
- 4. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318.
- 5. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
- 6. ALL REINFORCING SHALL BE LAPPED OR EMBEDDED IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED. 7. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING AT CORNERS OR INTERSECTIONS.
- 8. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
- 9. PRIOR TO PLACEMENT OF CONCRETE. A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF 24 HOURS IN ADVANCE OF PLACEMENT, TO ALLOW INSPECTION OF REINFORCING STEEL, AND PREPARATION FOR TAKING CONCRETE SAMPLES. INDEPENDENT TESTS ARE REQUIRED FOR ALL CONCRETE PLACEMENTS.
- 10. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. 11. W.W.R. SHALL CONFORM TO ASTM A1064 AND SHALL BE FABRICATED INTO FLAT SHEETS.
- 12. CHEMICAL ADHESIVE: HILTI HIT-HY 200, SIMPSON SET EPOXY, OR DEWALT AC100+ GOLD.
- 13. GROUT: NON-METALLIC/NON-SHRINK STRUCTURAL GROUT, FIVE STAR GROUT OR APPROVED EQUAL.
- 14. SYNTHETIC MICRO-FIBER: FIBRILLATED POLYPROPYLENE MICRO-FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE,
- COMPLYING WITH ASTM C 1116/C 1116M, TYPE III. 15. PROTECT CONCRETE FROM PREMATURE DRYING IMMEDIATELY AFTER PLACEMENT. CURING OF CONCRETE SLABS MUST START WITHIN 2 HOURS AFTER FINISHING OPERATIONS ARE COMPLETE. SLABS-ON-GRADE SHALL BE WET CURED FOR 7 DAYS. CURING COMPOUNDS ARE PROHIBITED.
- 16. SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS AS SHOWN ON PLANS. SAW CUT JOINTS SHALL BE MADE WITHIN 12 HOURS OF PLACING SLAB. AFTER CONCRETE IS CURED AND READY FOR PLACEMENT OF FLOOR FINISH, ALL SLABS INSIDE THE BUILDING SHALL HAVE CONTROL JOINTS FILLED WITH APPROVED JOINT FILLER.
- 17. CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.
- 18. CONDUIT OR PIPES SHALL BE PLACED UNDER SLABS-ON-GRADE.
- 19. ALUMINUM CONDUITS OR PIPES SHALL NOT BE PLACED IN CONCRETE. 20. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260 AND WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494

# WOOD FRAMING NOTES:

- SUBMITTALS:
- a. CONTRACTOR SHALL PROVIDE ALL CONNECTION DETAILS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL SUBMIT ENGINEERING DATA FOR ALL CONNECTORS AND CONNECTIONS NOT SHOWN ON THE DRAWINGS. b. SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS FOR ALL ENGINEERED TRUSSES AND TRUSS CONNECTORS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK , TO THE ENGINEER OF RECORD FOR REVIEW BEFORE
- CONSTRUCTION. 2. WOOD CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION'S (NFPA)
- NATIONAL DESIGN SPECIFICATIONS (NDS) AND CHAPTER 23 OF THE BUILDING CODE OF NYS, LATEST EDITION.
- 3. MINIMUM DESIGN VALUES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: 4. WOOD IN CONTACT WITH MASONRY, CONCRETE OR EARTH, OR WITHIN 1'-0" OF GRADE OR EXPOSED TO THE EXTERIOR SHALL BE
- PRESSURE PRESERVATIVE TREATED. 5. FRAMING ANCHORS AND MISCELLANEOUS METAL DEVICES FOR ALL FRAMING SHALL BE GALVANIZED STEEL OF AT LEAST 16 GAGE THICKNESS (G90 FOR INTERIOR APPLICATION, G185 OR STAINLESS STEEL FOR EXTERIOR), INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE FASTENERS AND FASTENING METHODS RECOMMENDED BY THE MANUFACTURER. EXTERIOR EXPOSED ANCHORS AND ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD TO BE STAINLESS OR GALVANIZED
- (G185). 6. BUILT-UP FRAMING MEMBERS SHALL BE FASTENED IN ACCORDANCE WITH NDS STANDARDS UNLESS OTHERWISE NOTED.
- 7. NOTCHES, COPES, AND HOLES IN WOOD MEMBERS ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED. NOTCHES, COPES, AND HOLES IN PRE-ENGINEERED MEMBERS SHALL BE IN ACCORDANCE AND APPROVED BY THE MANUFACTURER.
- 8. ROOF TRUSSES, INCLUDING DESIGN, FRAMING CONNECTORS, BRACING ERECTION AND QUALITY SHALL CONFORM TO THE SPECIFICATIONS AND RECOMMENDATIONS OF NFPA AND THE TRUSS PLATE INSTITUTE (TPI).
- 9. SHEATHING SHALL BE RATED AS FOLLOWS (CHECK THAT IT MEETS DESIGN LOADS)
- a. WALL: APA RATED 24" O.C. EXPOSURE I (7/16" MIN. THICKNESS)
- b. FLOOR: APA RATED 24/16, EXPOSURE I (3/4" MIN. THICKNESS)
- c. ROOF: APA RATED 48/24, EXPOSURE I (5/8" MIN. THICKNESS)
- 10. SHEATHING SHALL BE CONTINUOUS OVER TWO OR MORE SUPPORTS. FLOOR AND ROOF SHEATHING SHALL BE ORIENTED WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTS. WALL SHEATHING CAN BE ORIENTED PERPENDICULAR OR PARALLEL 11. WALL SHEATHING SHALL HAVE 2X BLOCKING OR FRAMING MEMBERS BEHIND ALL PANEL EDGES.
- 12. UNLESS NOTED OTHERWISE, THE MINIMUM FASTENING FOR SHEATHING SHALL BE AS FOLLOWS:
- a. WALL: 8d COMMON NAILS @ 6" 0.C. (EDGE) & 12" 0.C. (FIELD) b. FLOOR: GLUED AND 10d COMMON NAILS @ 6" O.C. (PANEL EDGES) AND 12" O.C. (FIELD)
- c. ROOF: 10d COMMON NAILS@ 6" O.C. (PANEL EDGES) AND 12" O.C. (FIELD) d. GWB: #6 - 1 ¼" SCREWS AT 8" (EDGE) AND 12" (FIELD).
- 13. WOOD CONNECTORS: SIMPSON STRONG-TIE CONNECTORS USED AS BASIS OF DESIGN. USP STRUCTURAL CONNECTORS OF EQUAL STRENGTH ARE ACCEPTABLE.
- 14. BOLTS THROUGH WOOD MEMBERS SHALL BE ASTM A307.

	01100					
	BUILDING DATA:					
	LOCATION					
	BUILDING OCCUPANCY RISK CATEGORY					
	APPLICABLE BUILDING CODE					
	FLOOR LIVE LOAD:					
	TOILET ROOMS					
	SNOW LOAD:					
	SNOW LOAD IMPORTANCE FACTOR					
	GROUND SNOW LOAD					
	SNOW EXPOSURE FACTOR					
	THERMAL FACTOR					
	FLAT ROOF SNOW					
	WIND LOAD (COMPONENTS & CLADDING):					
	ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)					
	NOMINAL DESIGN WIND SPEED (3-SECOND GUST)					
	EXPOSURE CATEGORY					
	INTERNAL PRESSURE COEFFICIENT					
	EARTHQUAKE LOAD:					
	SOIL SITE CLASSIFICATION					
	SPECTRAL RESPONSE ACCELERATION AT 0.2 SEC					
	SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC					
	SEISMIC IMPORTANCE FACTOR					
	DESIGN SPECTRAL RESPONSE COEFFICIENT					
	DESIGN SPECTRAL RESPONSE COEFFICIENT					

EARTHWORK - REQUIR

- AREAS OF INSPECTION & TESTING VERIFY MATERIALS BELOW SHALLOW FOUNDATION
- ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPA
- VERIFY EXCAVATIONS ARE EXTENDED TO PROPER D REACHED PROPER MATERIAL.
- PERFORM CLASSIFICATION AND TESTING OF COMPA MATERIALS
- VERIFY USE OF PROPER MATERIALS, DENSITIES, AN THICKNESS DURING PLACEMENT AND COMPACTION
- COMPACTED FILL PRIOR TO PLACEMENT OF COMPACTED FILL, INSPEC
- AND VERIFY THAT SITE HAS BEEN PREPARED PROPE CAST-IN-PLACE CONCRETE -
  - AREAS OF INSPECTION & TESTING
- INSPECT REINFORCEMENT, INCLUDING PRESTRESS
- TENDONS, AND VERIFY PLACEMENT.
- 2. INSPECT ANCHORS CAST IN CONCRETE
- 3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. <sup>b</sup> a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL
- UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHOR
- DEFINED IN 4.a.
- VERIFY USE OF REQUIRED DESIGN MIX.
- PRIOR TO CONCRETE PLACEMENT, FABRICATE SPEC FOR STRENGTH TESTS, PERFORM SLUMP AND AIR C TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
- INSPECT CONCRETE AND SHOTCRETE PLACEMENT I PROPER APPLICATION TECHNIQUES.
- VERIFY MAINTENANCE OF SPECIFIED CURING TEMPER AND TECHNIQUES.
- VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO ST OF TENDONS IN POST-TENSIONED CONCRETE AND P REMOVAL OF SHORES AND FORMS FROM BEAMS AN STRUCTURAL SLABS.
- INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FOR
- WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEI SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN
- 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMIN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK

### STRUCTURAL DESIGN TABLE - IBC 2018 RDANCE WITH APPLICABLE BUILDING CODE)

INDANO	E WITT AFFEIGABLE BOILDING GODE)	
	HARRIMAN STATE PARK II 2020 NYS BUILDING CODE	IBC 2018 TABLE 1604.5
LL1	60 PSF	ASCE 7-16 TABLE C4.3-1
ls Pg Ce Ct Pf	1.00 31.6 PSF 1.0 1.2 26.5 PSF	ASCE 7-16 TABLE 1.5-2 IBC 2018 FIGURE 1608.2 ASCE 7-16 TABLE 7.3-1 ASCE 7-16 TABLE 7.3-2 ASCE 7-16 SECTION 7.3
Vult Vasd GCpi	112 mph 87 mph B +0.18/-0.18	ASCE 7-16 SECTION 26.5 IBC 2018 SECTION 1609.3.1 ASCE 7-16 SECTION 26.7 ASCE 7-16 SECTION 26.13
Ss S1 Ie SDS SD1	D 0.278g 0.06g 1.00 0.292g 0.096g B	ASCE 7-16 SECTION 20.3 ASCE 7-16 FIGURE 22-1 ASCE 7-16 SECTION 11.4.2 ASCE 7-16 TABLE 1.5-2 ASCE 7-16 SECTION 11.4.5 ASCE 7-16 SECTION 11.4.5 ASCE 7-16 TABLE 11.6-(1&2)
	LL1 Is Pg Ce Ct Pf Vult Vasd GCpi Ss SDS SD1	HARRIMAN STATE PARK   II   2020 NYS BUILDING CODE   LL1   60 PSF   Is   1.00   Pg   31.6 PSF   Ce   1.0   Ct   1.2   Pf   26.5 PSF   Vult   Nult   B   GCpi   +0.18/-0.18   D   Ss   0.278g   S1   0.06g   Ie   1.00   SDS   0.292g   SD1   0.096g

lements fo	R SPE	ECIAL INSPECTION & TEST	TING				
		FREQUENCY OF INSPECTION OR TESTING		REFERENCE STANDARD		IBC REFERENCE	
S ARE CITY.		PERIODIC		-		1705.6	
iepth and h	iave	PERIODIC					
ACTED FILL		PERIODIC					
ID LIFT I OF		CONTINUOUS					
CT SUBGRADE ERLY.		PERIODIC					
REQUIREME	NTS F	OR SPECIAL INSPECTION	& TE	STING			
	IN	FREQUENCY OF SPECTION OR TESTING	F	REFERENCE	IBC	REFERENCE	
ING	PERIODIC			ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3		1908.4	
		PERIODIC		ACI 318: 17.8.2		-	
LLY OR T		CONTINUOUS		AC  318: 17.8.2.4		-	
RS NOT		PERIODIC	AC	318: 17.8.2			
		PERIODIC	ACI 26	318: CH. 19, 5.4.3, 26.4.4	19 19	04.1, 1904.2, 08.2, 1908.3	
CIMENS CONTENT E `		CONTINUOUS		ASTM C172 ASTM C31 CI 318: 26.4, 26.12	1908.10		
FOR		CONTINUOUS	A	CI 318: 26.5	1908.6, 1908.7, 1908.8		
ERATURE		PERIODIC	26	ACI 318: 5.3 - 26.5.5	1908.9		
rressing Prior to Nd		PERIODIC		318: 26.11.2			
		PERIODIC		ACI 318:		-	

