					0010.100	
BUILDING CODE:			2018 VCC			407
LOCATION (LATITUDE / LONGITUDE):				38.641	461, -77.295	467
	GEOTECH	INICAL P	AR	AMETERS	:	
SOILS ENGINEER:			NOT PROVIDED			
REPORT NUMBER:						
DA	ATE:					
ALLOWABLE SOIL BEARING PRESSURE:			1,500PSF (CODE MINIMUM)			MUM)
ALLOWABLE PA	SSIVE PRESSI	JRE:		200PCF (PC	DLES), 1,500 F	PSF MAX
TOTAL SE	TTLEMENT:			NO	T-PROVIDED	
	SEISMIC D	DESIGN P	AR	AMETERS	S:	
RISK CA	TEGORY:					
SITE	CLASS:			D	(DEFAULT)	
HORT PERIOD SPECT	RAL ACCELEF	RATION, S₅:			0.143	
1s PERIOD SPECTRA	AL ACCELERA	TION, S ₁ :			0.045	
SPECTRAL RESPON	ISE COEFFICIE	ENT, S _{D1} :			0.072	
SHORT PERIOD SPEC	OTRAL RESPO	NSE, S _{DS} :	0.153			
SITE COEF	FICIENT, Fa:		1.6			
SITE COEFFICENT, F _v :					2.4	
SEISMIC DESIGN CATEGORY:					В	
SEISMIC IMPORTANCE FACTOR, le:					1.25	
RESPONSE MODIFICATION, R & SEISMIC FORCE RESISTING SYSTEM:			1.	25 - STEEL (COL	ORDINARY C. UMN SYSTEI	ANTILEVER VI
DESIGN BASE SHEAR:				0.153pW		
SEISMIC RESPONSE COEFFICIENT, Cs:			0.153			
DESIGN PI	ROCEDURE:		EQUIVALENT LATERAL FORCE			
REDUNDANO	CY FACTOR, ρ	:	1.0			
SYSTEM OVERSTR	RENGTH FACT	OR, Ω:	1.25			
DEFLECTION AMPLI	FICATION FAC	TOR, C _d :	1.25			
	WIND DE	ESIGN PA	RA	METERS:		
RISK CA	TEGORY:					
WIND EXPOSURE CATEGORY:			С			
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), VIII T:			119 MPH			
NOMINAL DESIGN WIND SPEED (3-SECOND GUST), V _{ASD} :			92 MPH			
GRAVITY DE	ESIGN PAR	AMETER	S: (LBS, SER	VICE LOA	DS)
	DEAD	ROOF LIV	/E	SNOW	LIVE	TOTAL
		+				<u> </u>

City of Puyallup Development & Permitting Services ISSUED PERMIT Building Planning Engineering Public Works Fire Traffic

SHEET INDEX

GENERAL NOTES

SCS

SN1

SN2

SD1

STRUCTURAL COVER SHEET

STRUCTURAL GENERAL NOTES

STRUCTURAL GENERAL NOTES

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL ENGINEERING 27369 VIA INDUSTRIA TEMECULA, CA92590 TELE:951.600.0032 WWW.ISEENGINEERS.COM SOCAL | NORCAL | COLORADO

PROJECT INFORMATION:

17' HIGH BOWLING PIN 2700 POTOMAC MILL CIRCLE WOODBRIDGE, VA 22912

CONTACT INFORMATION:

PROJECT MANAGER: SANDY FONG, P.E., EXT. 1016 SANDY@ISEENGINEERS.COM

PROJECT DESIGN ENGINEER: SCOTT KUHLMAN, EXT: 1017 SCOTT@ISEENGINEERS.COM

CLIENT: JESSE WRIGHT STORYLAND STUDIOS, INC. 590 CRANE STREET LAKE ELSINORE, CA 92530 (800) 218-1932

PLAN REVISIONS

\triangle	DESCRIPTION	DATE
	ENGINEER STA	MP
	CHRISTOPHER JOHN CNWELL Lic. No. 0402059888	



-C279D3D62AC5474...

DATE:

04/07/2022

SHEET TITLE STRUCTURAL COVER SHEET

SHEET NUMBER

SCS

DocuSign Envelope ID: FF33DF0B-7945-4928-A94F-E50F990B5DFA

STRUCTURAL STEEL NOTES

- 1. <u>FABRICATION & ERECTION:</u> ALL FABRICATION & ERECTION SHALL CONFORM TO THE LATEST STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- 2. ASTM SPECIFICATIONS: STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS.

TABLE 1 - STEEL MATERIAL SPECIFICATIONS				
STEEL SHAPE	ASTM SPECIFICATION			
W	A992 OR A572 GRADE 50			
M, S, HP	A36 OR A572 GRADE 50			
C - CHANNEL	A572 GRADE 50			
L - ANGLE	A36			
PLATES & BAR	A36			
STEEL PIPE	A53 GRADE B			
ROUND HSS	A500 GRADE B OR C			
SQ. & RECT. HSS	A500 GRADE B OR C			
MACHINE BOLTS	A325, A490, F1852, F2280			
NUTS	A563, A194			
WASHERS	F436			
ANCHOR RODS	F1554-A36			
SHEAR STUDS	A108			

- 3. STEEL EXPOSED TO WEATHER OR CORROSIVE ENVIRONMENT: ALL STEEL EXPOSED TO WEATHER OR CORROSIVE ENVIRONMENT SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A123, ALL FIELD WELDS ON GALVANIZED STEEL SHALL BE TREATED WITH ZINC-RICH PAINT IN COMPLIANCE WITH ASTM A780.
- 4. STEEL FABRICATION: ALL STEEL FABRICATION SHALL BE PERFORMED IN A SHOP APPROVED BY THE GOVERNING JURISDICTION DEPARTMENT OF BUILDING & SAFETY.
- STEEL FABRICATOR: THE STRUCTURAL STEEL FABRICATOR SHALL PROVIDE A SET OF SHOP FABRICATION DRAWINGS FOR APPROVAL TO THE ENGINEER OF RECORD. THE FABRICATOR SHALL NOT FABRICATE THE STEEL UNTIL THE ENGINEER OF RECORD HAS APPROVED THE SHOP DRAWINGS.
- 6. WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH THE LATEST AISC & AMERICAN WELDING SOCIETY (AWS) STANDARDS. ALL WELDING SHALL BE PERFORMED USING A SHIELDED ARC PROCESS USING APPROVED ELECTRODES CONFORMING TO AWS SPECIFICATION E70XX (LOW HYDROGEN). WELD MATERIAL SHALL COMPLY WITH AWS CERTIFICATION AND POSSESS A CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F. WELDING SHALL BE PERFORMED BY ONLY AWS CERTIFIED WELDERS
- 7. WELDING PROCEDURES: A WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER AWS D1.1 SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND REVIEWED BY THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT.
- 8. ERECTION AIDS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS AND UNEQUAL PARTS.
- FIELD WELDING: FIELD WELDING SHALL BE PERFORMED BY A BUILDING DEPARTMENT CERTIFIED WELDERS. FIELD WELDING REQUIRES CONTINUOUS SPECIAL INSPECTION. PERIODIC FIELD SPECIAL INSPECTION IS ACCEPTABLE FOR FLOOR AND ROOF DECK WELDING, STUD WELDING & WELDING OF STAIR/HANDRAIL SYSTEMS
- 10. BOLTING: BOLTING OF STRUCTURAL STEEL SHALL MEET THE RESEARCH COUNCIL ON TRUCTURAL CONNECTIONS (RCSC) 2000 EDITION SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 & A490 BOLTS FOR TYPES X, N & SC.
- 11. CAMBER: ALL STEEL BEAMS SHALL HAVE STANDARD MILL CAMBER UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS



GENERAL NOTES

- FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO 1. CONSTRUCTION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IN CASE OF DISCREPANCIES
- DESIGN INTENT: CONTRACT DOCUMENTS INDICATE DESIGN INTENT FORE STRUCTURE IN 2. ITS COMPLETED STATE. THEY DO NOT INDICATE METHOD OF CONSTRUCTION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF DESIGN INTENT REQUIRES FURTHER CLARIFICATION.
- З. DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS TO APPROVED STRUCTURAL DRAWINGS: MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER) AND APPROVED BY GOVERNING CODE AUTHORITY. NO DEVIATION, MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.
- PROCEDURES OF CONSTRUCTION: CONTRACTOR IS RESPONSIBLE FOR PROCEDURES OF CONSTRUCTION COMPLYING WITH NATIONAL, STATE AND LOCAL SAFETY 4. ORDINANCES. SITE VISITS (INCLUDING STRUCTURAL OBSERVATION) BY ARCHITECT (STRUCTURAL ENGINEER) DO NOT CONSTITUTE SUPERVISIONS OF METHODS OF CONSTRUCTION
 - A. PROTECTION OF UTILITIES: LOCATE EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN ON CONTRACT DOCUMENTS AND PROTECT THEM FROM DAMAGE CONTRACTOR BEARS EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES IN CONJUNCTION WITH EXECUTION OF WORK.
 - EXCAVATIONS: PROTECT STRUCTURE, ADJACENT STRUCTURES, ADJACENT PROPERTIES, STREETS, AND UTILITIES DURING EXCAVATION UTILIZING LAGGING, SHORING, UNDERPINNING AT SIDES AND RELATED PROCEDURES AS MAY BE REQUIRED PROVIDE NECESSARY SUPPORTS FOR SOIL EXCAVATIONS CONTRACTOR AND AFFECTED TRADES SHALL REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
 - C. PROTECTION OF STRUCTURE: PROVIDE NECESSARY MEASURES TO PROTECT STRUCTURE DURING EXECUTION OF WORK.
 - D. CONTRACTOR PROPOSED REVISIONS: WHERE A REVISION OF STRUCTURAL DESIGN OR CONNECTION IS PROPOSED BY CONTRACTOR TO ACCOMMODATE CONSTRUCTION TO FRANCES, CONSTRUCTION SEQUENCE AND/OB DIMENSION MODIFICATIONS CONTRACTOR SHALL BETAIN A STRUCTURAL ENGINEER LICENSED IN STATE OF CALIFORNIA TO PERFORM DESIGN. SUBMIT STAMPED AND SIGNED DESIGN DRAWINGS AND CALCULATIONS TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND THE GOVERNING CODE AUTHORITY FOR APPROVAL
 - E. ERECTION PLANS: DETERMINE PHASES OF WORK REQUIRING ERECTION PLANS ACCORDING TO APPLICABLE SAFETY REGULATIONS. MAINTAIN CERTIFIED COPIES OF ERECTION PLANS AT SITE DURING CONSTRUCTION.
 - SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS: DESIGN AND ERECT SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH AND AS REQUIRED FOR SAFE ERECTION. ENSURE FLOOR, ROOF, AND WALL MEMBERS ARE SECURELY SHORED AND BRACED DURING CONSTRUCTION. PROVIDE SHORING AT ELEVATED BEAMS AND SLABS SUPPORTING CONCRETE OR MASONRY WALLS DURING AND AFTER WALL POUR UNTIL WALL ATTAINS DESIGN STRENGTH
- TEMPORARY LOADING: ENSURE CONSTRUCTION LOADS DO NOT EXCEED INDICATED G DESIGN LIVE LOAD VALUES. NOTIFY AFFECTED SUB-CONTRACTOR TRADES OF THESE DESIGN LOAD LIMITS
- H. FABRICATION, SHIPMENT, AND ERECTION OF STRUCTURAL STEEL: ENSURE STRESSES OCCURRING DURING FABRICATION, SHIPMENT, AND ERECTION OF STRUCTURAL STEEL ARE TEMPORARY AND ARE LESS THAN DESIGN AND ALLOWABLE STRESS CAPACITIES OF INDIVIDUAL MEMBERS. DO NOT IMPAIR FULL DESIGN AND LOAD CARRYING CAPACITY OF MEMBERS DUE TO FABRICATION, SHIPMENT, OR ERECTION. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ERECTION SEQUENCE, ERECTION PROCEDURE, TEMPERATURE DIFFERENTIALS AND WELD SHRINKAGE TO MINIMIZE RESIDUE STRESSES. PROVIDE ADDITIONAL MATERIALS FOR THE ERECTION OF STRUCTURAL STEEL SUCH AS TEMPORARY BRACING AND GUY CABLES AS MAY BE NECESSARY AT NO ADDITIONAL COST. REMOVE THESE MATERIALS UNLESS APPROVED IN WRITING BY OWNER. DO NOT TIGHTEN BOLTS IN TYPICAL BEAM TO COLUMN CONNECTIONS FOR ERECTION PURPOSES
- SECURING REINFORCING STEEL, DOWELS, ANCHOR BOLTS AND EMBEDS: FIRMLY 1. SUPPORT AND ACCURATELY PLACE COMPLYING WITH ACI STANDARDS PRIOR TO CASTING CONCRETE OR GROUT IN MASONRY WALLS. USE TIES AND SUPPORT BARS IN ADDITION TO REINFORCING STEEL SHOWN WHERE NECESSARY. NO WELDING OR REINFORCING STEEL, INCLUDING TACK WELDING, IS PERMITTED UNLESS OTHERWISE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER) PROVIDE PLASTIC OR PLASTIC COATED CHAIRS AND SPACERS WHEN RESTING ON EXPOSED SUBFACES.
- 5. COORDINATION RESPONSIBILITY: CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK INCLUDING THAT OF SUB-CONTRACTOR TRADES.
- SUBMITTALS: SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) AS INDICATED ON 6. STRUCTURAL DRAWINGS AND SPECIFICATIONS. GENERAL CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION
 - A. REQUEST FOR INFORMATION (RFI) SUBMITTALS: ACCOMPANY RFI'S WITH PARTIAL STRUCTURAL FOUNDATION OR FRAMING PLANS SHOWING LOCATION IN QUESTION AND AFFECTED STRUCTURAL MEMBERS. COPY PARTIAL PLAN FROM STRUCTURAL DRAWINGS AND INDICATE GRID LINE LOCATIONS AND FLOOR LEVEL. ALSO PROVIDE PROPERLY DRAWN ENGINEERING SKETCHES ILLUSTRATING ISSUES AND

SUBSTITUTES TO ENGINEERING SKETCHES

- CONTRACT DOCUMENTS USE: REVIEW CONTRACT DOCUMENTS IN THEIR ENTIRETY BEFORE PERFORMING STRUCTURAL RELATED WORK AND BEFORE DEVELOPING SHOP DRAWINGS BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF ABCHITECT (STRUCTURAL ENGINEER) BEFORE STARTING WORK.
 - A. SCALING OF DRAWINGS: NOT PERMITTED.
- B. ADDITIONAL STRUCTURAL REQUIREMENTS: SEE SPECIFICATIONS.
- INCLUDING. BUT NOT LIMITED TO, TOP OF FLOOR AND ROOF ELEVATIONS: DEPRESSIONS; SLOPES; CURBS; DRAINS; TRENCHES; SLAB AND DECK EDGE IN FLOORS, ROOF AND WALLS.
- VERIFY EXACT SIZE AND LOCATION OF EQUIPMENT WITH EQUIPMENT MANUFACTURER.
- MATERIALS: FURNISH AND INSTALL IN COMPLIANCE WITH LEGALLY CONSTITUTED 8 PUBLIC AUTHORITIES HAVING JURISDICTION INCLUDING COUNTY AND LOCAL ORDINANCES AND SAFETY ORDERS OF STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA.
- PENETRATIONS, EMBEDMENT, AND OPENINGS IN STRUCTURAL MEMBERS: NO PENETRATION, EMBEDMENT, OPENING, SLEEVE, PIPE, OR CONDUIT SHALL OCCUR IN UNLESS SPECIFICALLY SHOWN OR INDICATED ON STRUCTURAL DRAWINGS
- 10. TYPICAL DETAILS: DETAILS ON SD SERIES SHEETS ARE APPLICABLE THROUGHOUT SPECIFICALLY REFERENCED ON STRUCTURAL DRAWINGS, CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK
- 11. WATERPROOFING & DRAINAGE: WATERPROOFING AND DRAINAGE IS OUTSIDE INNOVATIVE STRUCTURAL ENGINEERING'S EXPERIENCE AND EXPERTISE. INNOVATIVE STRUCTURAL ENGINEERING RECOMMENDS HIRING A WATERPROOFING & DRAINAGE CONSULTANT. IF NO WATERPROOFING CONSULTANT IS HIRED. EITHER OWNER OR CONTRACTOR ASSUMES RESPONSIBILITY OF WATERPROOFING & DRAINAGE REQUIREMENTS.

EARTHWORK AND FOUNDATIONS

- DESIGN BASED ON MINIMUM/ PRESCRIPTIVE BUILDING CODE REQUIREMENTS. SEE STRUCTURAL COVER SHEET FOR PRESCRIPTIVE SOIL DESIGN PARAMETERS.
- 2 CODE REQUIREMENTS: Α.
- B
 - COEFFICIENT OF FRICTION: SEE PROJECT DESIGN CRITERIA
- GRADING, EXCAVATIONS, BACKFILL AND COMPACTION OF BACKFILL. COMPLY WITH GEOTECHNICAL REPORT AND REQUIREMENTS OF GOVERNING CODE AUTHORITY AND PERFORMED ONLY UNDER CONTINUOUS SPECIAL INSPECTION OF GEOTECHNICAL ENGINEER
- BACKELL
- ARE TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FREE OF DEBRIS OR LOOSE SOIL. SLOPE SIDES OF EXCAVATION NOT LESS THAN MINIMUM SLOPE INDICATED IN GEOTECHNICAL REPORT. CAST CONCRETE DIRECTLY AGAINST EXCAVATED SURFACES.
- 6. WATERPROOFING. ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL OPERATION. UNLESS ADEQUATELY SHORED, DO NOT PLACE BACKFILL BEHIND CONCRETE AT ELEVATED FLOOR LEVELS ADJACENT TO WALLS ARE COMPLETELY POURED (IN AREA) AND HAVE CURED FOR AT LEAST 7 DAYS.
- AWAY FROM STRUCTURE AT BUILDING PERIMETER. LANDSCAPE IRRIGATION IS NOT PERMITTED WITHIN FIVE FEET OF BUILDING PERIMETER FOOTINGS EXCEPT WHEN FEET OF BUILDING PERIMETER. REFER TO GEOTECHNICAL REPORT FOR COMPLETE REQUIREMENTS

CONTRACTOR'S PROPOSED SOLUTIONS. PHOTOGRAPHS ARE NOT ACCEPTABLE

C. BUILDING GEOMETRY: SEE ARCHITECTURAL DRAWINGS FOR BUILDING GEOMETRY LOCATIONS; WALL OVERALL DIMENSIONS; AND SIZE AND LOCATIONS OF OPENINGS

D NON-STRUCTURAL ITEMS REQUIRING SPECIAL PROVISIONS: SEE ARCHITECTURAL MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS BEQUIRING SPECIAL PROVISIONS DURING CONSTRUCTION. THEY INCLUDE BUT ARE NOT LIMITED TO, NON-STRUCTURAL WALLS; SIZE AND LOCATIONS OF OPENINGS AND SLEEVES PENETRATING STRUCTURE: SIZE AND LOCATION OF CONCRETE CURBS AND PADS; AND SIZE AND LOCATION OF PIPING, DUCTWORK, AND EQUIPMENT ANCHORAGES MOUNTED OR SUSPENDED FROM STRUCTURE.

STRUCTURAL MEMBERS INCLUDING FOOTINGS, SLABS, WALLS, COLUMNS, AND BEAMS

PROJECT WHEREVER THE DESCRIBED CONDITION OCCURS AND MAY OR MAY NOT BE

GEOTECHNICAL REPORT: PERFORM SOILS WORK COMPLYING WITH FOUNDATION

ALLOWABLE FOUNDATION DESIGN VALUES PER MINIMUM/ PRESCRIPTIVE BUILDING

BEARING CAPACITY: SEE PROJECT DESIGN CRITERIA PASSIVE LATERAL BEARING PRESSURE: SEE PROJECT DESIGN CRITERIA

PREPARATION OF SOIL UNDER BUILDING PAD: SEE GEOTECHNICAL REPORT FOR OVER-EXCAVATION OF EXISTING SOIL AND INSTALLATION OF PROPERLY COMPACTED

FOUNDATION EXCAVATIONS: FOUNDATIONS ARE TO BEAR ON FIRM EXISTING SOIL OR APPROVED COMPACTED FILL AS INDICATED IN GEOTECHNICAL REPORT. EXCAVATIONS REINFORCING STEEL AND FORMWORK. ENSURE EXCAVATIONS ARE CLEANS, DRY AND

BACKFILLING OF RETAINING WALLS: PLACE AFTER COMPLETION AND INSPECTION OF BUILDING STRUCTURE RETAINING WALLS (EXCLUDING SITE RETAINING WALLS) UNTIL

WATER EXPOSURE AT BUILDING PERIMETER FOOTINGS: AT AREAS WHERE SIDEWALKS OR PAVING DO NOT IMMEDIATELY ADJOIN STRUCTURE, PROVIDE POSITIVE DRAINAGE ENCLOSED IN PROTECTED PLANTERS WITH DIRECT DRAINAGE AWAY FROM STRUCTURE OR WHICH COMPLIES WITH APPLICABLE CODE, DISCHARGE FROM DOWN SPOUTS, ROOF DRAINS AND SCUPPERS IS NOT PERMITTED ONTO UNPROTECTED SOILS WITHIN FIVE

STRUCTURAL ENGINEERING 7369 VIA INDUSTRI EMECULA, CA 9259 ELE:951.600.003 WWW.ISEENGINEERS.COM SOCAL | NORCAL | COLORADO

PROJECT INFORMATION:

17' HIGH BOWLING PIN 2700 POTOMAC MILL CIRCLE WOODBRIDGE, VA 22912

CONTACT INFORMATION:

PROJECT MANAGER: SANDY FONG, P.E., EXT. 1016 SANDY@ISEENGINEERS.COM

PROJECT DESIGN ENGINEER: SCOTT KUHLMAN, EXT: 1017 SCOTT@ISEENGINEERS.COM

CLIENT: JESSE WRIGHT STORYLAND STUDIOS, INC.

590 CRANE STREET LAKE ELSINORE, CA 92530 (800) 218-1932

PLAN REVISIONS

\triangle	DESCRIPTION	DATE				
	ENGINEER STAMP					
CHRISTOPHER JOHN CONWELL Lic. No. 0402059888						

-C279D3D62AC5474.

DATE:

04/07/2022

SHEET TITLE STRUCTURAL **GENERAL NOTES**

SHEET NUMBER

SN1

DocuSign Envelope ID: FF33DF0B-7945-4928-A94F-E50F990B5DFA

CONCRETE

- CONCRETE COMPRESSIVE STRENGTH: ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS SHOWN IN THE TABLE 2 BELOW AT 28 DAYS, U.N.O. ON PLANS. SEE ALSO SULFATE CONTENT NOTES.
- 2. AGGREGATES IN CONCRETE: SHALL BE NATURAL SAND AND ROCK (150 LB/CU. FT) CONFORMING TO ASTM C33 AGGREGATE SHALL HAVE PROVEN SHBINKAGE CHARACTERISTICS OF LESS THAN 0.04% PER ASTM C-157, DO NOT CHANGE SOURCE OF AGGREGATE DURING COURSE OF WORK WITHOUT WRITTEN CONSENT OF ENGINEER.
- CEMENT: SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150. CEMENT SHALL BE TYPE II OR AS REQUIRED TO SATISFY SITE SOIL CONDITIONS. REFER TO TABLE 4 FOR CONCRETE CEMENT REQUIREMENTS ON SOIL CONTAINING SULFATE. REFER TO TABLE 2 FOR MAXIMUM WATER TO CEMENT RATIO.

CONCRETE STRENGTH					
CONDITION	WATER / CEMENT RATIO	MAX. SLUMP			
DRILLED PIER	2,500 PSI	0.65	6"		

REBAR CLEAR COVER IN CONCRETE: THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:

REBAR CLEAR COVER FOR CAST-IN-PLACE CONCRETE MEMBERS					
CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER		
SLAB ON GRADE	ALL	ALL	CENTER OF SLAB OR 2" MIN		
CONCRETE AGAINST & PERMANENTLY <u>IN CONTACT WITH</u> <u>GROUND:</u>	ALL	ALL	3"		
EXPOSED TO WEATHER		No. 6 THROUGH No. 18 BARS	2"		
OR IN CONTACT WITH GROUND	ALL	No. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2"		
	SLABS, JOISTS,	No. 14 AND No. 18 BARS	1-1/2"		
NOT EXPOSED TO	AND WALLS	No. 11 BAR AND SMALLER	3" 4		
WEATHER OR IN CONTACT WITH GROUND	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1-1/2"		

- VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL 5. PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26
- 6. CURING: CONCRETE SHALL BE MAINTAINED AT IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GRADE, APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING. ONLY IF APPROVED BY THE ENGINEER OR ARCHITECT.
- INSPECTIONS, TESTING & QUALITY ASSURANCE: REFER TO STRUCTURAL NOTE SHEETS FOR DEPUTY SPECIAL INSPECTION, TESTING & STRUCTURAL OBSERVATION REQUIREMENTS. A MINIMUM OF ONE COMPRESSION TEST AT 7 DAYS AND 2 TESTS AT 28 DAYS FOR ALL CONCRETE SAMPLES. TAKE TEST AT A FREQUENCY OF ONCE EVERY 150 CU. YDS OR 5.000 SQ. FT MINIMUM.
- ANCHOR BOLTS, DOWELS, INSERTS: SHALL BE TIED IN PLACE PRIOR TO POURING 8. CONCRETE
- 9. CONSTRUCTION AND POUR JOINTS: LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO POURING CONCRETE.
- 10. FLY ASH: SHALL NOT BE USED IN CONCRETE.
- 11. FORMWORK: FORMWORK TOLERANCE SHALL IN ACCORDANCE WITH THE C.B.C. AND A.C.I. STANDARDS.
- 12. HOT AND COLD WEATHER CONCRETING:
 - HOT WEATHER CONCRETING: WHEN AIR TEMPERATURE RISES ABOVE 80° F AND HUMIDITY FALLS BELOW 25, THE CONTRACTOR SHALL FOLLOW HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305 5-77. CONTRACTOR SHALL BE PREPARED TO USE FOG SPRAY OR OTHER PRECAUTIONS ACCEPTABLE TO ARCHITECT WHEN RATE OF EVAPORATION EQUALS OR EXCEEDS 0.2 POUNDS PER SQUARE FOOT PER HOUR.
 - В. COLD WEATHER CONCRETING: ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS AND ALL REINFORCEMENT, FORMS FILLERS AND GROUND WITH WHICH THE CONCRETE IS TO CONTACT SHALL BE FREE FROM FROST, FROZEN MATERIAL OR MATERIALS CONTAINING ICE SHALL NOT BE USED, COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI 306 R-78. (LATEST EDITION)
- 13. EXPOSED CORNERS: PROVIDE 3/4" CHAMFERS AT ALL EXPOSED CORNERS.
- 14. ARCHITECTURAL DETAILS: REFER TO ARCHITECTURAL DRAWINGS FOR REVEALS, AREAS OF TEXTURED CONCRETE OR SPECIAL FINISHES, ITEMS REQUIRED TO BE CAST INTO THE CONCRETE, CURBS AND SLAB DEPRESSIONS.
- 15. DRYPACK OR GROUT: SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL NOT BE LESS THAN THE CONCRETE STRENGTH AND SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.

ACI 318-14 TABLE 19.3.1.1 - EXPOSURE CATEGORIES AND CLASSES						
CATEGORY	CLASS	CONDITION				
	FO	CONCRETE NOT EXPOSED	TO FREEZING-AND-THAWING CLES			
F	F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER				
FREEZING AND THAWING	F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER				
	F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS				
		WATER SOLUBLE SULFATE (SO4 ²⁻) IN SOIL, PERCENT BY WEIGHT	DISSOLVED SULFATE (SO4 ²⁻) IN WATER, PPM			
S	S0	SO4 ²⁻ < 0.10	SO4 ²⁻ < 150			
SULFATE	S1	0.10 <u><</u> SO4 ²⁻ < 0.20	150 <u><</u> SO4 ²⁻ < 1500 OR SEAWATER OR			
	S2	0.20 <u><</u> SO4 ²⁻ <u><</u> 2.0	1500 <u><</u> SO4 ²⁻ <u><</u> 10,000			
	S3	SO4 ²⁻ > 2.00	SO4 ²⁻ > 10,000			
W IN CONTACT	W0	CONCRETE DRY IN SERVICE W0 CONCRETE IN CONTACT WITH WATER AND LC PERMEABILITY IS NOT REQUIRED				
WITH WATER W1		CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED				
	C0	CONCRETE DRY OR PROTECTED FROM MOISTURE				
C	C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO EXTERNAL SOURCES OF CHLORIDES				
PROTECTION OF REINFORCEMENT	C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM				

REINFORCING STEEL

REINFORCING STEEL

1.

З.

- A. ALL BARS, U.N.O.: ASTM A615, GRADE 60
- B. BARS TO BE WELDED: ASTM A706, GRADE 60

CONCRETE EXPOSURE REQUIREMENTS

C. ADDITIONAL REQUIREMENTS FOR BARS, EXCLUDING TIES, IN DUCTILE MOMENT RESISTING FRAMES AND BOUNDARY ELEMENTS IN SHEAR WALLS: NO ADDITIONAL REQUIREMENTS IF ASTM A706, GRADE 60 BARS USED. ASTM615, GRADE 60 BARS ARE PERMITTED PROVIDED ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI) AND RATIO OF ACTUAL ULTIMATE TENSILE STRESS TO ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25.

THESE SOURCES

- WIRE AND SPIRAL REINFORCING 2.
- A. SMOOTH WELDED WIRE FABRIC (W.W.F.): ASTM A185, FY=65 KSI, FLAT SHEETS ONLY. DO NOT USE ROLLED MESH. LAP SPACES (1 FOOT MINIMUM). OFFSET LAPS IN ADJACENT SHEETS TO AVOID CONTINUOUS LAPS.
- B. DEFORMED WIRE STIRRUPS (D4 AND LARGER ONLY): ASTM A497, FY=65 KSI. C. SPIRAL REINFORCING: ASTM A82, GRADE 60
- SHOP DRAWINGS: ACI 315, PART B. SHOW REINFORCING STEEL PLACEMENT INCLUDING SIZES, QUANTITIES, SPACING, CLEARANCES, SPLICE LOCATIONS, LAP LENGTHS, AND CONCRETE COVERAGE AND SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER). PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN BEINFORCING STEEL AND OTHER CONGESTION IS ENCOUNTERED. NOTIFY SPECIAL INSPECTOR OF ADJUSTMENTS MADE FORM APPROVED CONTRACT DOCUMENTS WHICH ARE INDICATED ON ACCEPTED SHOP DRAWINGS THAT FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
- 4. SPLICE LOCATIONS: SPLICE #5 BARS AND LARGER ONLY AT LOCATIONS INDICATED. IF ADDITIONAL SPLICE LOCATIONS ARE PROPOSED, PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING SHOP DRAWINGS. A SPLICES IN WALLS: LOCATE SPLICES IN HORIZONTAL BARS AT WELL-STAGGERED
 - LOCATIONS. DO NOT SPLICE VERTICAL BARS EXCEPT AT HORIZONTAL SUPPORTS SUCH AS FLOOR AND ROOF DIAPHRAGMS.
- 5. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING DISTANCE BETWEEN SETS OF SPLICED BARS: 1" OR 1 db, WHICHEVER IS GREATER. 1 1/2" OR $1\frac{1}{2}$ db WHICHEVER IS GREATER, AT COLUMNS, PIERS, AND PILASTERS ONLY. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.
- 7. DOWELS AT CONSTRUCTION JOINTS: PROVIDE DOWELS MATCHING SIZE AND QUANTITY OF REINFORCING STEEL INTERRUPTED AT CONSTRUCTION JOINTS, UNLESS DETAILED OTHERWISE
- PLACEMENT OF BARS IN WALLS: PLACE VERTICAL BARS CLOSEST TO WALL SURFACES 8. AT CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING. PLACE LAYER WITH MOST STEEL AREA CLOSEST TO NEAR WALL SURFACE
- BARS TERMINATING AT WALLS, COLUMNS, BEAMS, AND FOUNDATIONS: EXTEND BARS TO WITHIN 2" (3" AT CONCRETE POURED AGAINST EARTH) OF FAR FACE OF WALL COLUMN, BEAM OR FOUNDATION AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE

ONCF	RETE	EXPC	DSURE RE	EQUIREME	ENTS, COI	<u>NT.</u>	INNOVATIV	E
ACI 318	8-14 TAE	BLE 19.3.2	2.1 - REQUIREM	ENTS FOR CONC	RETE BY EXPOS	URE CLASS	STRUCTURAL ENGINEERI	
XPOSURE CLASS	MAX W/CM	MIN fc					T E M E C U L A , C A 9 2 5 T E L E : 9 5 1 . 6 0 0 . 0 0	9 3
			AIR CONTENT CEMENTITIOUS MATERIALS			SOCAL NORCAL COLORA	. D (
F0	N/A	2500		N/A		N/A	PROJECT INFORMATION:	
F1	0.55	3500	F	PER TABLE 19.3.3	.1	N/A		
F2	0.45	4500	F	PER TABLE 19.3.3	.1	N/A	17' HIGH BOWLING PIN	
F3	0.40 (2)	5000 (2)	F	PER TABLE 19.3.3	.1	26.4.2.2(b)	2700 POTOMAC MILL CIRCL	E
			CEMENTI ASTM C150	CEMENTITIOUS MATERIALS - TYPES CALCIUM CHLORIDE		CALCIUM CHLORIDE ADMIXTURE	WOODBRIDGE, VA 22912	
S0	N/A	2500	NO TYPE	NO TYPE	NO TYPE	NO		_
	,	2000	RESTRICTION	RESTRICTION	RESTRICTION	RESTRICTION	CONTACT INFORMATION.	
S1	0.50	4000	II (4,5)	OR IT WITH (MS) DESIGNATION	MS	NO RESTRICTION	PROJECT MANAGER: SANDY FONG, P.E., EXT. 101	6
S2	0.45	4500	V (5)	TYPES IP, IS, OR IT WITH (HS) DESIGNATION	HS	NOT PERMITTED	SANDY@ISEENGINEERS.CO	VI
S3	0.45	4500	V PLUS POZZOLAN OR SLAG CEMENT (6)	TYPES IP, IS, OR IT WITH (HS) DESIGNATION PLUS POZZOLAN OR SLAG CEMENT ®	HS PLUS POZZOLAN OR SLAG CEMENT (6)	NOT PERMITTED	PROJECT DESIGN ENGINEER: SCOTT KUHLMAN, EXT: 1017 SCOTT@ISEENGINEERS.COM	
14/0	N1/A	0500	r				JESSE WRIGHT	
000	N/A	2500		NC			STORYLAND STUDIOS, INC.	
			MAXIMUM W/ CHLORIDE ION IN CONCRETE WEIGHT O NON-PRESTR ESSED-ISSUE D CONCRETE	ATER SOLUBLE 1 (CL ⁻) CONTENT 5, PERCENT BY F CEMENT (7) PRESTRESSED CONCRETE	PROVISIONS	LAKE ELSINORE, CA 92530 (800) 218-1932 City of Puyallup Development & Permitting Services		
CO	N/A	2500	1.00	0.06	NC		Building Planning	
C1	N/A	2500	0.30	0.30 0.06 NONE			Engineering Public Works	
C2	0.40	5000	0.15 0.06 CONCRETE COVER (6)			Fire		
ONCRETE.	MUM W	CM LIMI	TS IN TABLE 19.	3.2.1 DO NOT AP	PLY TO LIGHTWE	EIGHT	The WASHer Tallie	
. FOR PLAII E 4,500 PS . ALTERNA	N CONC	RETE, TH	E MAXIMUM W	CM SHALL BE 0.4	45 AND THE MIN			_
9.3.2.1 ARE RITERIA IN FOR SEAV LUMINATE XCEED 0.44 OTHER AV XPOSURE (XPOSURE (XPOSURE (THE AMO SED SHALL ECORD TO CEMENT. LAG CEME ITH ASTM WATER-S IGREDIENT DMIXTURE ETWEEN 2: CONCRET EINFO BARS INT AND PRO	TIVE CO TIVE CO TIVE CO TIVE CO PERMIP 26.4.2.2 VATER E (C_3A) Cr (AILABL CLASSE CLA	MBINATI TTED WH (c). EXPOSUE DNTENTS S S1 OR S S1 OR S S1 OR S S1 OR THE SPE LEAST TH VE SULFA ANTIVELY. E USED CHLORII JOING W. . BE DET 2 DAYS. R SHALL JG S1 TED BY S TANDARI D1.4, EXC D1.4, EXC D2 AUTH	ONS OF CEMEN IEN TESTED FOR IEN TESTED FOR IEN TO 10 PERC OF CEMENT SU S2 IF THE C ₃ A C S5 THAN 5 PERC CIFIC SOURCE C IE AMOUNT THA ITE RESISTANCI THE AMOUNT THA ITE AMOUNT TO SHALL BE AT LE TING THE CRITE DE ION CONTEN ATER, AGGREGA ERMINED ON TH IEN ACCORD TELL, COI ITRUCTURAL ST O ACI 90-DEGRE CEPT AS MODIFIC DS ANGELES "R" ORITY IS CITY O	TITIOUS MATERIA SULFATE RESIS S OF PORTLAND DENT ARE PERMIT CH AS TYPE I OR ONTENTS ARE LE DENT FOR EXPOS DF THE POZZOLA AT HAS BEEN DET E WHEN USED IN DF THE SPECIFIC ANT THE AMOUN ERIA IN 26.4.2.2(c) IT THAT IS CONTRATES, CEMENTITI HE CONCRETE MI ANCE WITH 20.6. VT. EEL: EXTEND BA TE HOOK UNLESS IED BY APPLICAB BOOK FOR ADDI F LOS ANGELES	ALS TO THOSE LI TANCE AND ME CEMENTS WITH TTED IF THE W/C TYPE III ARE PER SS THAN 8 PER URE CLASS S2. N OR SLAG CEM TERMINED BY SE CONCRETE COI SOURCE OF THE TESTED IN AC	IMUM fc SHALL STED IN TABLE ETING THE TRI-CALCIUM M DOES NOT RMITTED IN CENT FOR IENT TO BE ERVICE VITAINING TYPE E POZZOLAN OR CORDANCE THE 5, AND I C1218 AT AGE	ENGINEER STAMP	E
9.3.2.1 ARE RITERIA IN FOR SEAV LUMINATE XCEED 0.4. OTHER AV XPOSURE (XPOSURE (XPOSU		MBINATII TTED WH (c). EXPOSURE DINTENTS ETYPES STORESSION THE SPE LEAST THE SPE LEAST	ONS OF CEMEN IEN TESTED FOR BUP TO 10 PERC OF CEMENT SU S2 IF THE C ₃ A C S5 THAN 5 PERC CIFIC SOURCE C HE AMOUNT THA ATE RESISTANCI THE AMOUNT THA ATE RESISTANCI THE AMOUNT C SHALL BE AT LE TING THE CATCONTEN ATER, AGGREGA ERMINED ON TH BE IN ACCORD TELL, COI TELL, COI CONTEN ACI 90-DEGRE CONTY IS CITY O RCING STEEL FO	TITIOUS MATERIA SULFATE RESIS S OF PORTLAND CENT ARE PERMIT CH AS TYPE I OR ONTENTS ARE LE DENT FOR EXPOS DF THE POZZOLA AT HAS BEEN DET E WHEN USED IN DF THE SPECIFIC ANST THE AMOUN RIA IN 26.4.2.2(C) IT THAT IS CONTR AST THE AMOUN RIA IN 26.4.2.2(C) IT THAT IS CONTR AST THE AMOUN RIA IN 26.4.2.2(C) IT THAT IS CONTR ANCE WITH 20.6. VT. EEL: EXTEND BA EEL: EXTEND BA EEL ONCRETE MI BOOK FOR ADDI F LOS ANGELES I DR WELDING AST	ALS TO THOSE LI TANCE AND ME CEMENTS WITH TTED IF THE W/C TYPE III ARE PER SS THAN 8 PER URE CLASS S2. N OR SLAG CEM TERMINED BY SE CONCRETE COI SOURCE OF THE TERSTED IN AC	IMUM fc SHALL STED IN TABLE ETING THE TRI-CALCIUM M DOES NOT RMITTED IN CENT FOR IENT TO BE ERVICE VITAINING TYPE POZZOLAN OR CORDANCE THE 5, AND I C1218 AT AGE	PLAN REVISIONS DESCRIPTION DAT ENGINEER STAMP ENGINEER STAMP CHRISTOPHER JOHN CONWELL Lic. No. 0402059888 Docusigned Dr. ULYS Docusigned Dr. ULYS DATE: 04/07/2022	Ē
9.3.2.1 ARE RITERIA IN FOR SEAV LUMINATE XCEED 0.44 OTHER AV OTHER AV OTHER AV SED SHALL ECORD TO CEMENT. LAG CEMENT. IGREDIENT DMIXTURE ETWEEN 2: CONCRET EINFO BARS IN AND PRO WELDING RGA #3- GOVERN SAFETY. A. ACCE REINFI SAFETY. A. ACCE REINFI GOVEL MUCH		MBINATII TTED WH (c). EXPOSUE DNTENTS EXPOSUE DNTENTS S1 OR LES THE SPE LEAST TH S S1 OR LES THE STALL DI LA, EXO TO LA CONTON STEEL CONFORM CONFORM CONFORM CONFORM	ONS OF CEMEN IEN TESTED FOR BE, OTHER TYPES S UP TO 10 PERC OF CEMENT SU S2 IF THE C ₃ A C S5 THAN 5 PERC CIFIC SOURCE C HE AMOUNT THA ATTE RESISTANCE THE AMOUNT C SHALL BE AT LE TING THE CRITE DE ION CONTEN ATER, AGGREGA ERMINED ON TH BE IN ACCORD TEEL, COI CITUCTURAL ST O ACI 90-DEGRE DE ANGELES "R" ORITY IS CITY O RCING STEEL FO DTHER THAN A70 ANCE TO APPLI THORITY, TO AR GOVERNING CO	TITIOUS MATERIA SULFATE RESIS SOF PORTLAND CENT ARE PERMIT CH AS TYPE I OR ONTENTS ARE LE DENT FOR EXPOS DF THE POZZOLA AT HAS BEEN DET E WHEN USED IN DF THE SPECIFIC ANST THE AMOUN FILL SCONTRES, CEMENTITI THAT IS CONTRES, CEMENTITI THAT IS CONTRES, CEMENTITI THAT IS CONTRES, CEMENTITI TES, CEMENTITI ANCE WITH 20.6. CONCRETE MI ANCE WITH 20.6. CONCRETE MI ANCE WITH 20.6. CONCRETE SI DO S ANGELES I DO S ANGELES I DO S ANGELES I DO S DESIRED, SI CABLE CODE AUTHORITY I CACODE AUTHORITY I	ALS TO THOSE LI TANCE AND ME CEMENTS WITH TTED IF THE W/C TYPE III ARE PER SS THAN 8 PER URE CLASS S2. N OR SLAG CEM TERMINED BY SE CONCRETE COI SOURCE OF THE T TESTED IN AC). RIBUTED FROM TO OUS MATERIALS XTURE BY ASTM	IMUM fc SHALL STED IN TABLE ETING THE TRI-CALCIUM M DOES NOT AMITTED IN CENT FOR IENT TO BE ENVICE VITAINING TYPE E POZZOLAN OR CORDANCE THE 3, AND 1 C1218 AT AGE OF STEEL FACE ENVISE. DARD 19-1. SEE EMENTS IF F BUILDING AND DING OF ED PROCEDURE, TS OF FRIOR TO	PLAN REVISIONS DESCRIPTION DAT DESCRIPTION DAT ENGINEER STAMP CHRISTOPHER JOHN CONVELL Loc No. 0402059888 Docussioned Docussion Docussioned Docussion Docussioned Docussion Docussioned Docussion Date: 04/07/2022 SHEET TITLE STRUCTURAL GENERAL NOTES	
9.3.2.1 ARE RITERIA IN FOR SEAV LUMINATE XCEED 0.44 OTHER AV XPOSURE (XPOSURE (XPOSURE (XPOSURE (THE AMO) SED SHALL COMDITION CEMENT LAG CEME TITH ASTM OMIXTURE ETVENZ 2: CONCRET ETVENZ 2: CONCRET BARS INT AND PRO BARS INT AND PRO <u>WELDING</u> RGA #3- GOVERN. A. ACCE REINFI NDIC/ GOVEL ACCEL EXECU B. WELDING ENGINEE	TIVE CO TIVE CO TIVE CO TIVE CO 26.4.2.2 VATER E (C ₃ A) Cr (C ₃ A) Cr	MBINATI TTED WH (c). EXPOSUE DNTENTS S S1 OR THE SPE LEAST TH VE SULF/A ATIVELY. E USED CHLORIN JOING W. BE DET 2 DAYS. R SHALL DING W. STEEL CONFORM CODE AUTH AND TO TIFICATION ON FIEL	ONS OF CEMEN IEN TESTED FOR IEN TESTED FOR IEN TESTED FOR IEN TO 10 PERC OF CEMENT SU S2 IF THE C ₃ A C S5 THAN 5 PERC CIFIC SOURCE C HE AMOUNT THA ATE RESISTANCE THE AMOUNT THA ATE RESISTANCE THE AMOUNT C IN CONTEN AMOUNT CONTEN ATER, AGGREGA ERMINED ON TH IEN ACCORD ITRUCTURAL ST O ACI 90-DEGRE CEPT AS MODIFINATION CONTENT IS CITY O RCING STEEL FO OTHER THAN A70 INCESS OTHERVING CO INLESS OTHERVING OF CENT OF CONTENT INLESS OTHERVING CO	TITIOUS MATERIA SULFATE RESIS SOF PORTLAND DENT ARE PERMIT CH AS TYPE I OR ONTENTS ARE LE DENT FOR EXPOS DF THE POZZOLA AT HAS BEEN DET E WHEN USED IN DF THE SPECIFIC AST THE AMOUN RIA IN 26.4.2.2(c) IT THAT IS CONT AST THE AMOUN RIA IN 26.4.2.2(c) IT THAT IS CONT ANCE WITH 20.6. VI. EEL: EXTEND BA E HOOK UNLESS IED BY APPLICAB BOOK FOR ADDI F LOS ANGELES I DR WELDING AST DO IS DESIRED, SI CABLE CODE AN CHITECT (STRUC DDE AUTHORITY I CODE AUTHORITY I CODE AUTHORITY I CODE AUTHORITY I	ALS TO THOSE LI TANCE AND ME CEMENTS WITH TTED IF THE W/C TYPE III ARE PER SS THAN 8 PER URE CLASS S2. N OR SLAG CEM TERMINED BY SE CONCRETE COI SOURCE OF THE TESTED IN AC	IMUM fc SHALL STED IN TABLE ETING THE TRI-CALCIUM M DOES NOT RMITTED IN CENT FOR IENT TO BE ERVICE INTAINING TYPE E POZZOLAN OR CORDANCE THE 5, AND I C1218 AT AGE OF STEEL FACE ERWISE. DARD 19-1. SEE EMENTS IF F BUILDING AND DING OF ED PROCEDURE, TS OF ER FOR PRIOR TO STRUCTURAL IN CONCRETE	DESCRIPTION DAT D	Ē

R

- 10
- 12
- 13. LAP SPLICES: PROVIDE CLASS B SPLICES UNLESS INDICATED OTHERWISE.

SIN2



	INNOVATIVE STRUCTURAL ENGINEERING
	2 7 3 6 9 VIA INDUSTRIA TEMECULA, CA 9 2 5 9 0 TELE: 9 5 1 . 6 0 0 . 0 0 3 2 WWW.ISEENGINEERS.COM
	SOCAL NORCAL COLORADO PROJECT INFORMATION:
	17' HIGH BOWLING PIN 2700 POTOMAC MILL CIRCLE WOODBRIDGE, VA 22912
	CONTACT INFORMATION:
8'Ø STD PIPE, STEEL COLUMN	PROJECT MANAGER: SANDY FONG, P.E., EXT. 1016 SANDY@ISEENGINEERS.COM
BOWLING PIN, FIBERGLASS SHELL BY OTHERS. MAX. 350# WEIGHT	PROJECT DESIGN ENGINEER: SCOTT KUHLMAN, EXT: 1017 SCOTT@ISEENGINEERS.COM
	<u>CLIENT:</u> JESSE WRIGHT STORYLAND STUDIOS, INC. 590 CRANE STREET LAKE ELSINORE, CA 92530 (800) 218-1932
\setminus	City of Puyallup Development & Permitting Services ISSUED PERMIT Building Planning
	Engineering Public Works
	Fire Traffic
PLYWOOD WITH FIBERGLASS REINFORCEMENT CONNECTION TO COLUMN BY SHELL MNFR	
	CHRISTOPHER JOHN CONWELL Lic. No. 0402059888
BASE PLATE & CONCRETE FOOTING PER DTL 2/-	C279D3D62AC5474
	DATE: 04/07/2022
	SHEET TITLE
	STRUCTURAL DETAILS
	SHEET NUMBER
	SD1