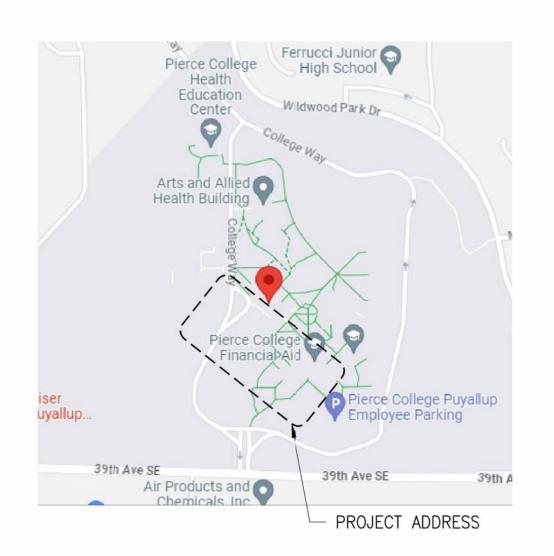


VICINITY MAP



GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (REFERRED TO HEREINAFTER AS "IBC").
- 2. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND 7. SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS NOTED OTHERWISE. NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS.
- 3. ALL OMISSIONS AND CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR ARCHITECTURAL SPECIFICATIONS (WHERE APPLICABLE) SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY OF THE WORK INVOLVED.
- 4. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF THE PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ARCHITECT'S OR ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- 5. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS.
- 6. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE STRUCTURAL DRAWINGS.
- 7. NO OPENINGS, CHASES, NOTCHES, ETC. SHALL BE PLACED IN COLUMNS, JOISTS, BEAMS, BEARING WALLS, AND SHEAR WALLS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW SUCH OPENINGS.
- CONTRACTOR SHALL COORDINATE ALL STRUCTURAL FRAMING WITH MECHANICAL, PLUMBING AND ELECTRICAL INFRASTRUCTURE, INCLUDING, BUT NOT LIMITED TO, RECESSED AND SEMI-RECESSED LIGHTING, MECHANICAL DUCTS AND PIPING, FIRE SPRINKLER PIPE AND HEADS AND PLUMBING DRAINS, WASTE AND SUPPLY LINES.
- 9. CONTRACTOR SHALL FOLLOW AND COMPLY WITH ALL MANUFACTURER'S GUIDELINES AND SPECIFICATIONS OF THE PRODUCTS INCLUDED IN THE DRAWINGS.
- 10. ALL ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE UNLESS NOTED OTHERWISE.
- 11. IT IS SOLELY THE CLIENT'S RESPONSIBILITY TO ENSURE THAT THE U.S APPROVED MATERIALS LISTED IN THE GENERAL NOTES ARE USED AND THAT ANY SUBSTITUTES MEET THE APPROVED STANDARDS AND CRITERIA.

DESIGN CRITERIA

- DEAD LOADS: 1. a. GLASS = 3 PSF b. SCULPTURE WEIGHT = 3000 LBS
- LIVE LOADS: a. PUSHING LOAD = 200 LBS (ANY DIRECTION)

I = 1.0

 $S_s = 1.253$

 $S_{DS} = 1.002$

 $S_1 = 0.432$

 $F_v = *null$

 $S_{D1} = 0.432$

R = 2

97mph

21.7psf

3,500 PSF

3,500 PSF

3,500 PSF

3.666 PSF

F₀ = 1.2

- SEISMIC DESIGN PARAMETERS: IMPORTANCE FACTOR
- RISK CATEGORY
- SITE CLASS MAPPED SHORT PERIOD ACCELERATION
- SITE COEFFICIENT DESIGN SHORT PERIOD ACCELERATION
- MAPPED ONE SECOND ACCELERATION SITE COEFFICIENT
- DESIGN ONE SECOND ACCELERATION SEISMIC DESIGN CATEGORY
- DESIGN BASE SHEAR: V = Cs*W AT STRENGTH LEVEL
- (W = EFFECTIVE SEISMIC WEIGHT)
- k. GOVERNING SEISMIC RESPONSE COEFFICIENT $C_s = 0.501$ RESPONSE MODIFICATION FACTOR
- WIND DESIGN PARAMETERS:
- BASIC WIND SPEED RISK CATEGORY
- EXPOSURE CATEGORY
- d. WIND PRESSURES 5. FOUNDATION DESIGN PARAMETERS:
- a. SPREAD FOOTING PARAMETERS
 - ALLOWABLE SOIL PRESSURE: DEAD LOADS:
 - DEAD PLUS LIVE LOADS:
 - DEAD PLUS LIVE PLUS SEISMIC COEFFICIENT OF FRICTION
 - PASSIVE PRESSURE

FOUNDATION

- 1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY GEOENGINEERS PREPARED ON JANUARY 21, 2021.
- INSTALLATION OF THE FOUNDATION FOOTINGS OR PIERS WITH RESPECT TO THE DEPTH BELOW FINISHED OR NATURAL GRADE SHALL BE AT A MINIMUM ACCORDING TO THE FOUNDATION DETAILS ON THESE PLANS. FIELD DISCOVERED CONDITIONS MAY NECESSITATE DEEPER FOUNDATIONS.
- 3. EXCEPT WHERE OTHERWISE SHOWN, EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE.
- 4. ALL EXCAVATIONS, FORMS AND REINFORCING ARE TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
- 5. ALL WATER, SOIL, AND OTHER DEBRIS SHALL BE REMOVED FROM FOUNDATION EXCAVATIONS PRIOR
- TO PLACING OF CONCRETE.

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHALL BE PER IBC CHAPTER 19 AND IN ACCORDANCE WITH ACI 318-11. SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- ALL CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.48, 4"±1" SLUMP, AND SHALL OBTAIN A 28 DAY MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS: a. GRADE BEAMS, MAT SLABS, AND FOOTINGS
- 3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, WEIGHING LESS THAN 150 PCF, UNLESS OTHERWISE NOTED.
- 4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II (OR ENGINEERED MAXIMUM DESIGN TO STRENGTH).
- 5. HARD ROCK AGGREGATES SHALL CONFORM TO ASTM C33. MAXIMUM NORMAL SIZE OF AGGREGATE SHALL NOT EXCEED 11/2 INCHES FOR FOUNDATION CONCRETE AND 1 INCH FOR STRUCTURAL CONCRETE ABOVE THE FOUNDATION. SEE ALSO THE REQUIREMENTS IN ACI STANDARD SPECIFICATIONS. MAXIMUM NORMAL SIZE SHALL ALSO BE SELECTED SUCH THAT WORKABILITY AND PLACEABILITY OF CONCRETE ARE FACILITATED.
- ALL ALTERNATE CONCRETE MIX DESIGN AND TEST STRENGTHS SHALL BE SUBMITTED TO THE 6. STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- MAXIMUM VERTICAL DROP OF CONCRETE SHALL BE NO MORE THAN 2'-0" FROM END OF PLACEMENT DEVICE TO PLACEMENT SURFACE.
- CONCRETE COVER AT REINFORCING SHALL BE AS FOLLOWS: 8. a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: b. EXPOSED TO EARTH OR WEATHER BUT CAST AGAINST FORMS c. BARS PARALLEL TO COLD JOINTS
- ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS, PIPE SLEEVES AND OTHER INSERTS SHALL BE 9.
- 10. THE SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MIX.

REINFORCING BAR

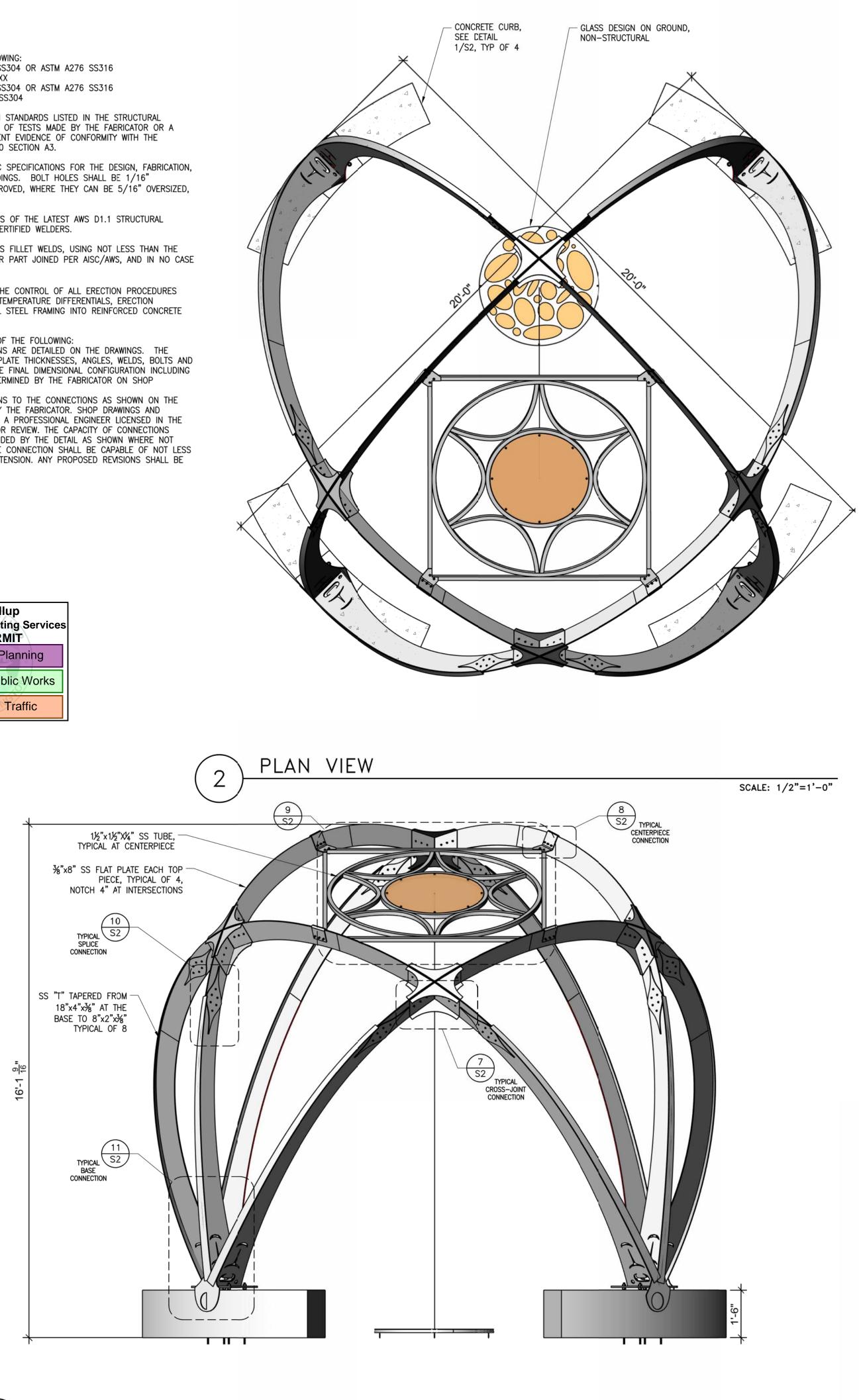
- REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATION SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION: a. #3 BARS AND SMALLER GRADE 60 b. #4 BARS AND LARGER c. ALL BARS TO BE WELDED
- REINFORCING SHALL HAVE A MINIMUM LAP IN CONFORMANCE WITH DETAILS AND SPECIFICATIONS SHOWN ON THESE DRAWINGS. STAGGER SPLICES WHENEVER POSSIBLE. VERTICAL WALL REINFORCING BARS SHALL EITHER EXTEND INTO FOOTINGS OR LAP SPLICED WITH FOOTING DOWELS OF THE SAME SIZE BARS.
- BENDING OF REINFORCING SHALL BE IN CONFORMANCE WITH DETAILS AND SPECIFICATIONS SHOWN 3. ON THESE DRAWINGS. FIELD BENDING OF BARS THAT ARE IN PLACE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- 4. ALL BARS SHALL BE FREE OF LOOSE AND FLAKY RUST AND SCALE, GREASE, OR OTHER MATERIALS WHICH MIGHT AFFECT OR IMPAIR BOND.

GENERAL NOTES

STRUCTURAL STEEL

- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING: ASTM A275 SS304 OR ASTM A276 SS316 TYPICAL SHAPES AND PLATES ELECTRODES AWS E308L-XX BASE PLATES ASTM A275 SS304 OR ASTM A276 SS316 ANCHOR BOLTS ASTM F593, SS304
- 2. IF MATERIAL DOES NOT CONFORM WITH THE ASTM STANDARDS LISTED IN THE STRUCTURAL DRAWINGS, MATERIAL TEST REPORTS OR REPORTS OF TESTS MADE BY THE FABRICATOR OR A TESTING LABORATORY SHALL CONSTITUTE SUFFICIENT EVIDENCE OF CONFORMITY WITH THE DESIGNATED ASTM STANDARDS LISTED IN AISC 360 SECTION A3.
- 3. ALL STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. BOLT HOLES SHALL BE 1/16" OVERSIZED, EXCEPT AT BASE PLATES, WHEN APPROVED, WHERE THEY CAN BE 5/16" OVERSIZED, WITH WELDED WASHERS.
- 4. ALL WELDING TO CONFORM TO THE REQUIREMENTS OF THE LATEST AWS D1.1 STRUCTURAL WELDING CODE AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
- 5. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS, USING NOT LESS THAN THE MINIMUM SIZES BASED ON THICKNESS OF THICKER PART JOINED PER AISC/AWS, AND IN NO CASE LESS THAN 1/4" UNLESS NOTED OTHERWISE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES ESPECIALLY WITH RELATION TO TEMPERATURE DIFFERENTIALS, ERECTION TOLERANCES, AND WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO REINFORCED CONCRETE WALLS.
- 7. THE STRUCTURAL STEEL CONNECTIONS CONSIST OF THE FOLLOWING: a. ALL MAJOR STRUCTURAL STEEL CONNECTIONS ARE DETAILED ON THE DRAWINGS. THE DETAILS INDICATE THE REQUIRED MINIMUM PLATE THICKNESSES, ANGLES, WELDS, BOLTS AND GENERAL CONNECTION CONFIGURATION. THE FINAL DIMENSIONAL CONFIGURATION INCLUDING ADJUSTMENTS FOR CAMBER SHALL BE DETERMINED BY THE FABRICATOR ON SHOP DRAWINGS.
- b. ANY PROPOSED REVISIONS OR MODIFICATIONS TO THE CONNECTIONS AS SHOWN ON THE DRAWINGS SHALL BE FULLY ENGINEERED BY THE FABRICATOR. SHOP DRAWINGS AND CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEVADA SHALL BE SUBMITTED FOR REVIEW. THE CAPACITY OF CONNECTIONS SHALL NOT BE REDUCED FROM THAT PROVIDED BY THE DETAIL AS SHOWN WHERE NOT SHOWN OR INFERRED FROM DRAWINGS, THE CONNECTION SHALL BE CAPABLE OF NOT LESS THAN 120% OF THE MEMBER CAPACITY IN TENSION. ANY PROPOSED REVISIONS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

City of Puyallup Development & Permitting Services ISSUED PERMIT					
Build	ing	Planni	ng		
Engine	ering	Public W	/orks		
Fire	e OF W	Traff	ic		



ELEVATION VIEW

0.4 (1.5 SAFETY FACTOR INCLUDED)

290 PCF (1.5 SAFETY FACTOR INCLUDED)

6. ALL BACKFILL WITH ENGINEERED FILLS SHALL BE COMPACTED TO 95% RELATIVE DENSITY.

2,500 PSI

3" CLEAR 2"CLEAR 2"CLEAR

SECURED IN POSITION PRIOR TO PLACING OF CONCRETE. "WET SETTING" WILL NOT BE ALLOWED.

GRADE 40 OR GRADE 60

GRADE A706



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ARTIST:

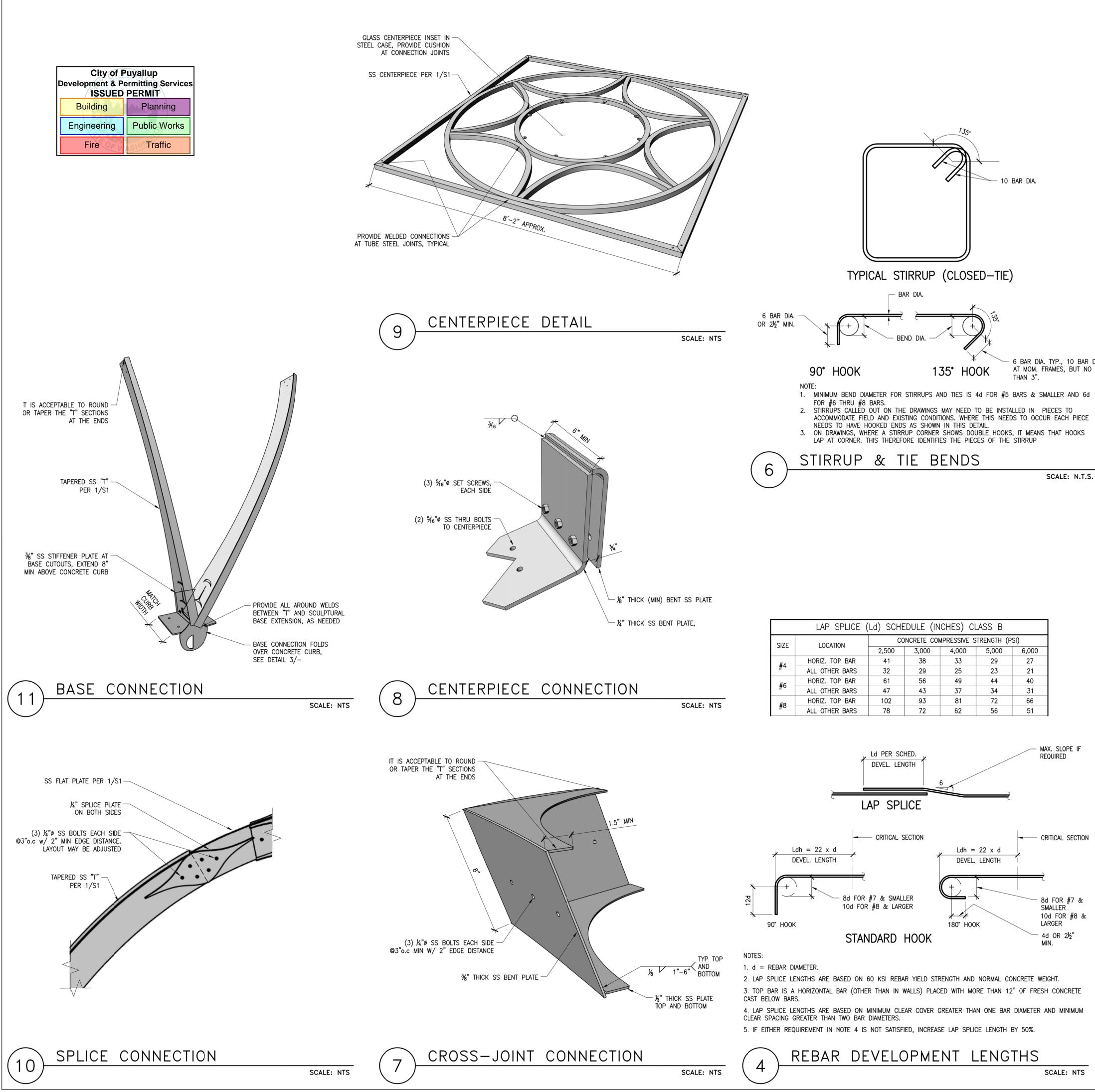
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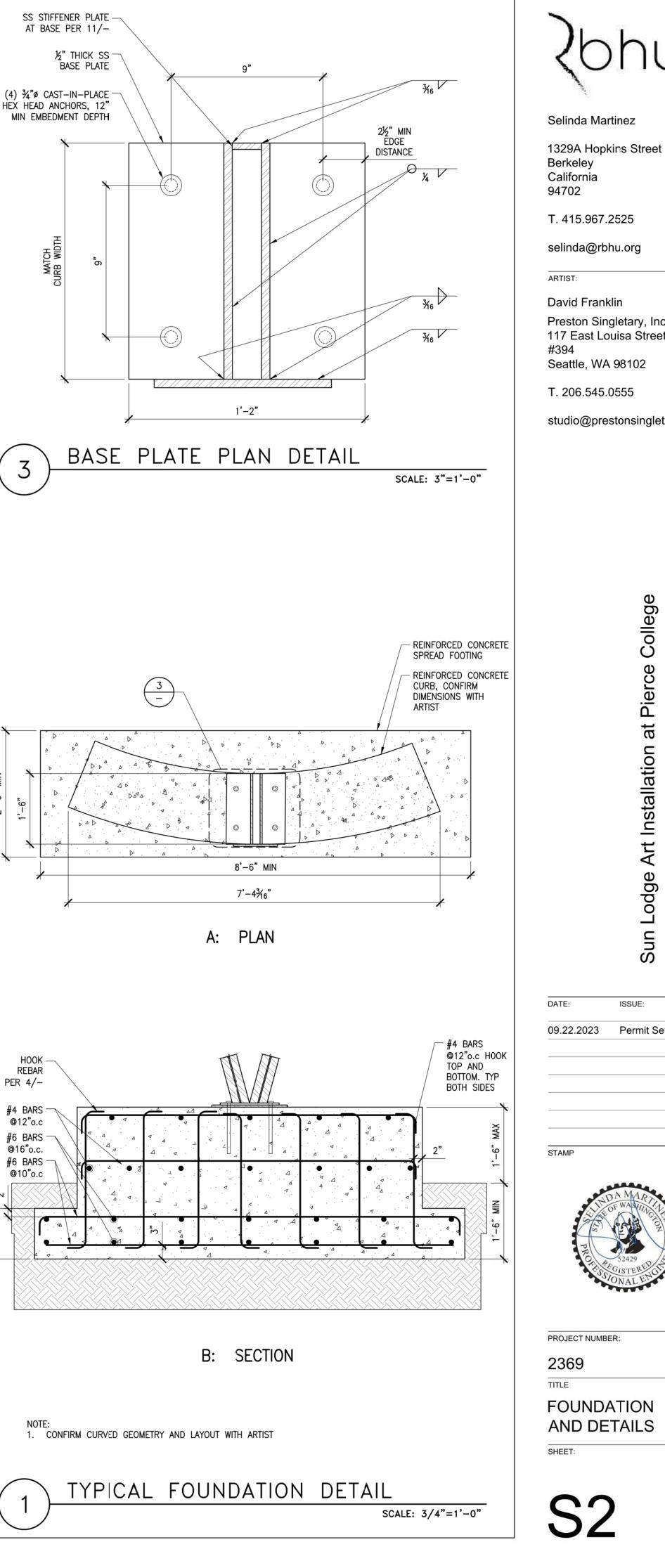


SHEET:



	LAP SPLICE (Ld) SCHEDULE (INCHES) CLASS B								
SIZE	LOCATION	CONCRETE COMPRESSIVE STRENGTH (PSI)							
JIZE	LOOATION	2,500	3,000	4,000	5,000	6,000			
#4	HORIZ. TOP BAR	41	38	33	29	27			
#4	ALL OTHER BARS	32	29	25	23	21			
#6	HORIZ. TOP BAR	61	56	49	44	40			
#0	ALL OTHER BARS	47	43	37	34	31			
#8	HORIZ. TOP BAR	102	93	81	72	66			
	ALL OTHER BARS	78	72	62	56	51			

6 BAR DIA. TYP., 10 BAR DIA. AT MOM. FRAMES, BUT NO LESS



Preston Singletary, Inc. 117 East Louisa Street studio@prestonsingletary.com olleg Ũ Sun Lodge Art Instal 98374 SE Wash bth b, 1 3('allu 160 Puy ISSUE:

STRUCTURAL ENGINEER:

PROJECT NUMBER:

Permit Set

2369 FOUNDATION AND DETAILS

S2

