City of Longview

1525 Broadway
Longview, WA 98632
www.ci.longview.wa.us

Agenda
Hybrid in-person or Virtual meeting:
To Join Zoom Meeting use this link: https://us02web.zoom.us/j/88246281771?pwd=Um53NmN3TUIvOERJTEUwTjlUQXI4Zz09
Meeting ID: 882 4628 1771 Passcode: 1923 +1 253 215 8782 US (Tacoma)

Historic Preservation Commission

Monday, October 25, 2021 | **5:30 PM** | **Small Conference Room, City Hall**

1. **ROLL CALL**

2. **APPROVAL OF MINUTES**

   21-0001013 **Minutes of the September 27 2021**

3. **CONSTITUENT COMMENTS**

4. **BOARD MEMBER COMMENTS**

5. **NEW BUSINESS**

   21-0001014 **CA 2021-5 Proposal to replace Log arch structure at Lake Sacajawea.**

   Double log arches were installed at Lake Sacajawa circa 1973 to duplicate the original 1924 arches used in the Pagent of Progress at the intersection of Washington Way and Vandercook Way. The arches were removed recently when extensive rot was discovered. Now, per the attached application, the Longview 23 Club with volunteer support proposes to replace the double log arches, with concrete pedestal supports to prevent rot, and a sign hanging between the supports. The hanging sign will replicate the 'Welcome to Longview" sign seen in attached photo. Please refer to the application for a detailed description, renderings, design and history. The applicants will propose a dedication plaque and or donor thank you plaque that will be set into the upright, but anticipate an addendum or second application for approval of those. The applicants understand that if any interpretive displays are desired they will require a separate application and approval.

The Log arch is/was considered non-historic, non-contributing when surveyed during preparation of the Lake Sacajawea Preservation Plan 12 years ago. Such designation would suggest the arches should not be replaced. Staff observes however that the log arch (now removed) will have stood in Lake Sacajawa for 45 years and standard number for of the secretary of the interiors standards for rehabilitation states: "4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved. Nearly fifty years of age, combined with local significance and unique design would all contribute to making a local determination that the Log Arch at Lake Sacajawea is a historically significant feature that should be preserved.

Recommended Action: Motion to grant approval of the Certificate of Appropriateness CA 2021-5 to replace the double log arch as presented at Lake Sacajawea Hemlock Plaza, with signage as shown, and dedication plaques to be approved under a separate addendum when ready.

6. REPORTS

21-0001038 **Reports:**

- **CLG Grant Report scanning project**
- **Reports from Staff**

7. UNFINISHED BUSINESS

21-0001029 **Library Weatherization update**

Recommended Action:

8. ADJOURNMENT

City of Longview
Historic Preservation Commission
Certificate of Appropriateness
Application

Log Arch Replacement Project

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Application For A
CERTIFICATE OF APPROPRIATENESS
Longview Historic Preservation Commission
Longview, Washington

Application No._____ Date 15 October 2021

Instructions: Print neatly or type. Submit by the 3rd Thursday of the month in order to be considered at the regular meeting on the 4th Thursday of that month. Insufficient documentation and incomplete applications will be returned or placed on hold. **Please be aware that the issuance of Building Permits is dependant on obtaining a Certificate of Appropriateness.**

Application is hereby made for issuance of a Certificate of Appropriateness (under Longview Ordinance 16.12.060 (1) & (3) for work as described below, and on plans, drawings, photographs, and descriptive material (attached) :

Address of Proposed Work 1199 W Kessler Blvd, Longview, WA 98632

Name of Building or Site Log Arches

Owner of Building or Site City of Longview Phone 360.442.5092

Home Address 1525 Broadway St, Longview, WA 98632

Name(s) & Address of Agent Longview '23 Club

PO Box 934, Longview, WA 98632 Phone 360.355.5306

Name & Address of Architect or Designer Waypoint Engineering

601 Main Street #400, Vancouver, WA 98660 Phone 360.635.6611

Name & Address of Builder or Contractor JH Kelly

821 3rd Avenue, Longview, WA 98632 Phone 360.423.5510

Approximate date of Starting Work _____ Completion _____.

Information required for processing of application:

x 1. Plot Plan and /or floor plan

x 2. Two sets of plans and or drawings to scale, of all elevations on all sides affected. Drawings submitted must look professional or be of high quality and detail if applicable to the project, or for structural or substantial alterations.

X 3. Clear photographs of existing structure or property and listed features.

n/a 4. Samples of material and color (roofing, siding, windows, etc...)

in progress 5. Required permits from Community Development and/or Public Works Departments:

Circle (Building) (Plumbing) (Electrical) (Mechanical) (Demolition) (Windows, Siding) (R-O-W) (Other)

DESCRIPTION OF WORK (check appropriate categories):

( )	Historic Restoration	( )	Dwelling	( )	Siding	( )	Fence
( )	Renovation	( )	Commercial	( )	Porch	( )	Wall
(x)	New Construction	( )	Garage	( )	Parking	( )	Steps
( )	Demolition	( )	Addition	( )	Walks	( )	Signs
( )	Foundation	( )	Awnings	( )	Windows	( )	Roof
( )	Chimney	( )	Skylights	( )	Color Change	( )	Painting

Itemize and describe all categories of proposed work. Include size, style, material and color: Provide information on the exact products that will be used: (product brochures, specifications, etc.) to assist the Commission in their review. Approved product choices will be stamped, and verified on final inspection.

**********Please attach or submit additional pages as necessary**********

Please see the attached project explanation.

IMPORTANT:

No work may differ from approved Certificate of Appropriateness.

Any proposed Changes must be Reviewed and Approved by the Commission as an addendum to the Certificate of Appropriateness.

Certificate of Appropriateness is valid for 12 months from date of issuance.
Certificate may be renewed at discretion of the Historic District Commission.

Do you intend to apply for Special Property Tax Valuation for Historic Property Renovation? ☐

Signature of Owner(s) of Record

x _____ x _____

Signature of Applicant(s)

x _____ x _____

Signature of Agent (s)

x _____ x _____

Project Explanation

The purpose of this application for a Certificate of Appropriateness is to obtain the approval of the HPC for the construction of a replacement log arch at the intersection of the promenade and Kessler Blvd at Lake Sacajawea.

Originally, erected in 1973 and dedicated in 1976, the Longview 23 Club erected the original Log Arch to commemorate the 1924 Pageant of Progress, which featured several log arch structures similar to what was eventually erected at the lake. In October of 2019, the log arches erected by the '23 Club were demolished by the City of Longview after it was determined that they had rotted and were no longer structurally sound (see attached TDN article).

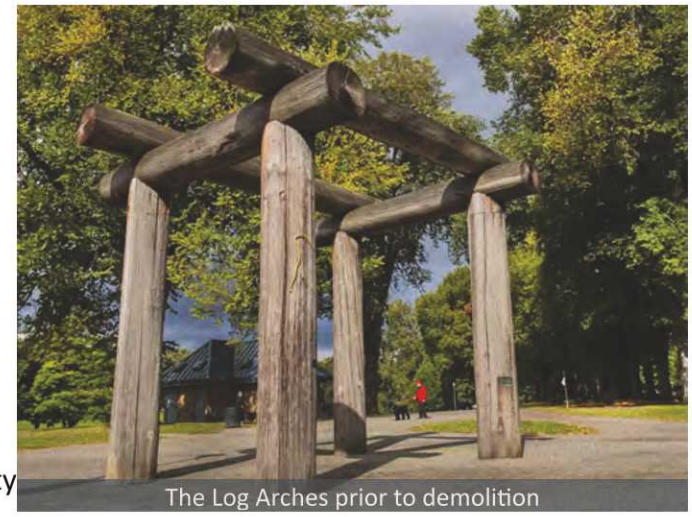
The Longview '23 Club, in partnership with JH Kelly and with the assistance of several donors would like to replace the demolished arches with a new log arch structure that duplicates the original arch dimensions and layout, but will be placed on concrete footings (see attached drawings . The replacement structure should be more resistant to damage from the elements and will be safer in the event of any seismic activity.

While the Artifacts inventory of Lake Sacajawea lists it as Non-historical and Non-contributing, the '23 Club believes that the log arch cultural significance to the City of Longview that should be considered when reviewing this application. Had it survived another 5 years, it would have met the state threshold for "historical". Additionally, many of the residents of Longview look back on the arch fondly and remember it being part of the Lake Sacajawea landscape for nearly 50 years.

To support this application, we have also provided the following attachments:

- A conceptual model of the replacement arch.
- Engineered drawings of the arch
- The Daily News article dated 10/4/2019
- The Daily News article dated 10/8/2019

Please let us know if there is additional information that you might need. Thank you for your consideration.

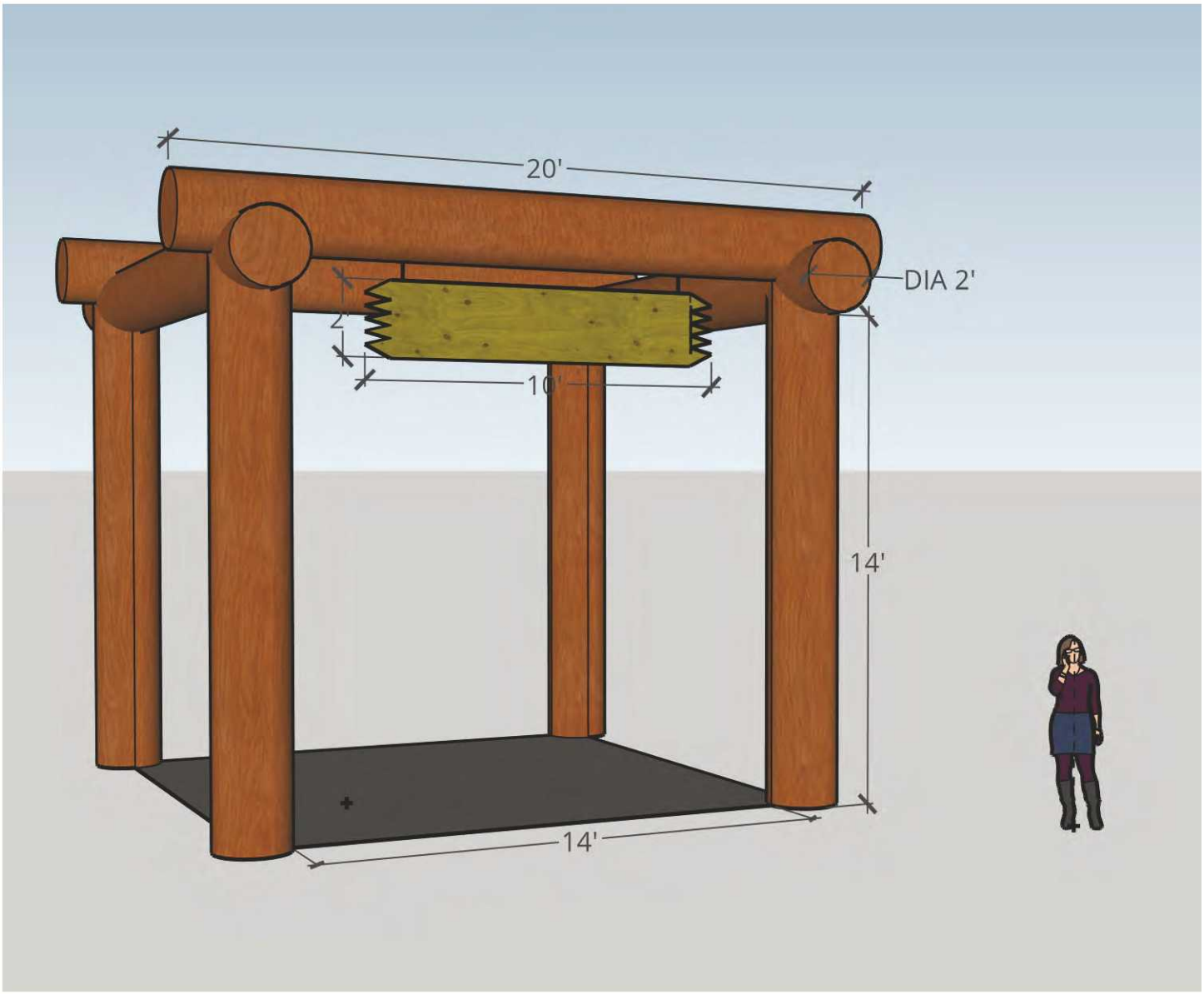


The Log Arches prior to demolition

'23 Club dedication plaque from the old arches

Pageant of Progress arches that inspired those at the Lake

Another view of the Pageant of Progress arches


20'
DIA 2'
2'
10'
14'
14'

GENERAL

1. MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF CONSTRUCTION DOCUMENTS, AND THE FOLLOWING:
   2018 INTERNATIONAL BUILDING CODE (IBC)
   ASCE/SEI 7-16 ASCE MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE)
   REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO LATEST PRINTED EDITION OF EACH IN EFFECT AT DATE OF CONSTRUCTION DOCUMENTS, UNLESS CODE REFERENCE DATE IS SPECIFICALLY SHOWN.
2. GENERAL NOTES SUPPLEMENT REQUIREMENTS OF PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN PLANS AND SPECIFICATIONS, CONTACT ENGINEER OF RECORD.
3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY ENGINEER OF RECORD.
4. INFORMATION SHOWN ON DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENT PRESENT KNOWLEDGE WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH CONTRACT DOCUMENTS TO ENGINEER OF RECORD. DO NOT DEVIATE FROM CONSTRUCTION DOCUMENTS WITHOUT WRITTEN DIRECTION FROM ENGINEER OF RECORD.
5. DO NOT SCALE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK OF ALL TRADES AND CHECKING DIMENSIONS. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH WORK. PROVIDE MEASURES NECESSARY TO PROTECT STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, EARTH, AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL-FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED. RETAIN A LICENSED CIVIL ENGINEER TO DESIGN BRACING, SHORING, ETC. SITE VISITS BY ENGINEER OF RECORD DO NOT INCLUDE OBSERVATION OF SHORING, PROTECTION, ETC. LISTED ABOVE.
7. APPLY, PLACE, ERECT, OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

DESIGN CRITERIA

1. GRAVITY DESIGN DATA:

DEAD LOAD:	
LOG	35 PCF

2. EARTHQUAKE DESIGN DATA:

RISK CATEGORY:	II (ASCE TABLE 1.5-1)
SEISMIC IMPORTANCE FACTOR, I_e:	1.00 (ASCE TABLE 1.5-2)
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S_S/S_1:	0.898/0.436
SITE CLASS:	D – STIFF SOIL (ASCE 20.3 AND TABLE 20.3-1)
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{DS}:	0.719
SEISMIC DESIGN CATEGORY:	D (ASCE 11.6)
BASIC SEISMIC FORCE-RESISTING SYSTEM(S):	TIMBER FRAME CANTILEVERED COLUMN SYSTEM (N/S AND E/W DIRECTIONS) (ASCE TABLE 12.2-1)
DESIGN BASE SHEAR(S):	2.652 KIPS
SEISMIC RESPONSE COEFFICIENT(S), CS:	0.288 (ASCE 12.8.1.1)
RESPONSE MODIFICATION COEFFICIENT(S), R:	2.5 (N/S AND E/W DIRECTIONS) (ASCE TABLE 12.2-1)
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE (ELF) PROCEDURE (ASCE 12.8)

3. GEOTECHNICAL DESIGN DATA:
   FOUNDATIONS:

ALLOWABLE SOIL PRESSURE, D+SL	1,500 PSF (IBC TABLE 1806.2)
ALLOWABLE SOIL PRESSURE, D+L+E/1.4	2,000 PSF (IBC 1806.1/1605.3.2)
COEFFICIENT OF FRICTION	0.25 (IBC TABLE 1806.2)
LATERAL BEARING PRESSURE (PASSIVE SOIL RESISTANCE)	100 PSF/FT (IBC TABLE 1806.2)

REINFORCING STEEL (CAST-IN-PLACE CONCRETE)

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
   A. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SECTION 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS".
   B. ACI SP-66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
   C. CRSI MSP-1 "MANUAL OF STANDARD PRACTICE".
   D. ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
   E. IBC CHAPTER 19, "CONCRETE".
   F. ACI 318 AND ACI 318R. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
   G. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
2. PROVIDE REINFORCING SHOWN OR NOTED IN CONTINUOUS LENGTHS AS LONG AS PRACTICABLE.
3. TERMINATE REINFORCING STEEL WITH STANDARD HOOKS, UNO.
4. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING WITH METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3'-0" OC SPACING.
5. SPLAY REINFORCING AROUND OPENINGS AT A RATIO OF 1 SPLAY TO 6 LENGTH, UNO.
6. REINFORCING SHALL CONFORM TO THE FOLLOWING:

LOCATION	TYPE
ALL LOCATIONS, UNO	ASTM A615, 60 KSI

7. LAP SPLICES SHALL CONFORM TO THE FOLLOWING:

LAP SPLICE LENGTHS FOR BARS IN WALLS, SLABS AND FOOTINGS (f'c= 3,000 PSI)								
BAR SIZE	0.75" COVER		1.50" COVER		2.00" COVER		3.00" COVER	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	17"	13"	17"	13"	17"	13"	17"	13"
#4	28"	22"	23"	17"	23"	17"	23"	17"
#5	41"	32"	28"	22"	28"	22"	28"	22"
#6	56"	43"	34"	26"	34"	26"	34"	26"
#7	90"	69"	55"	43"	49"	38"	49"	38"
#8	111"	86"	70"	54"	56"	43"	56"	43"
#9	135"	104"	86"	66"	69"	53"	63"	48"
#10	162"	125"	105"	81"	85"	66"	71"	55"
#11	190"	146"	125"	97"	102"	79"	79"	61"

FOUNDATION AND SITE WORK

1. LOCATE BOTTOM OF FOOTINGS AT A MINIMUM OF 1'-6" BELOW FINISH GRADE AT EXTERIOR LOCATIONS AND 1'-0" BELOW FINISH GRADE AT INTERIOR LOCATIONS, UNO.
2. PRIOR TO PLACEMENT OF CONCRETE, REMOVE ALL DISTURBED SOIL FROM EXCAVATION TO NEAT LINES. REMOVE STANDING WATER PRIOR TO PLACING CONCRETE.
3. MECHANICALLY COMPACT BACKFILLS TO 95 PERCENT OF MODIFIED PROCTOR IN LIFTS OF 8" IN HEIGHT MAXIMUM. PROVIDE COMPACTION IN ACCORDANCE WITH THE ASTM D698 TEST METHOD. VERIFY ADEQUACY OF COMPACTION WITH RANDOM FIELD DENSITY TESTS. COMPACT STRUCTURAL FILL TO 90 PERCENT RELATIVE COMPACTION WITHIN 5'-0" OF RETAINING OR BASEMENT WALLS WITH LIGHTWEIGHT, HANDHELD EQUIPMENT. EXERCISE CARE TO AVOID DAMAGE TO WALLS AND FOUNDATIONS.
4. LOCATE AND PROTECT EXISTING UTILITIES, AND NOTIFY THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND. CONTRACTOR RESPONSIBLE FOR EXCAVATION INCLUDING LAGGING, SHORING, UNDERPINNING, AND PROTECTION OF EXISTING STRUCTURES. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH CONSTRUCTION.

CAST-IN-PLACE CONCRETE

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
   A. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318-08.
   B. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
   C. IBC CHAPTER 19 "CONCRETE".
2. CONCRETE IS REINFORCED AND CAST-IN-PLACE, UNO. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD. SUBSTITUTION OF SHOTCRETE FOR CAST-IN-PLACE CONCRETE IS NOT ACCEPTABLE.
3. WHERE CONCRETE IS CAST AGAINST EXISTING, INCLUDING CONSTRUCTION JOINTS, ROUGHEN CONTACT SURFACES TO ¼" AMPLITUDE WITH LIGHT SANDBLASTING OR OTHER MEANS AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. PREPARE AS SATURATED SURFACE DRY.
4. EMBEDDED ANCHORS, STRAPS AND OTHER HARDWARE SHALL BE FIRMLY SUPPORTED AND TIED SECURELY INTO PLACE PRIOR TO POURING OF CONCRETE. PLACEMENT MAY ONLY BE "WET SET" WITH CONTINUOUS SPECIAL INSPECTION AND VIBRATION TO ENSURE FULL CONTACT OF CONCRETE.
5. CONCRETE COVER SHALL CONFORM TO THE FOLLOWING:

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIEFIED COVER
CAST AGAINST PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#5 BAR, W31 OR D31 WIRE, AND SMALLER	1½"
		#6 THROUGH #18 BARS	2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLAB, JOISTS, AND WALLS	#11 BAR AND SMALLER	¾"
		#14 THROUGH #18 BARS	1½"
	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES	REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1½"
ALL	ALL	EMBEDDED BOLTS AND BETWEEN PARALLEL BARS	1"

6. CONCRETE MIX AND STRENGTH SHALL CONFORM TO THE FOLLOWING:

USE	28 DAYS STRENGTH (f'c)	MAX W/C RATIO NON-AIR ENTRAINED	MAX W/C RATIO AIR ENTRAINED	MIN CEMENT CONTENT
SLAB ON GRADE	3,000 PSI	0.42	0.46	517 LBS

CONCRETE MIX REQUIREMENTS:
   A. ROUGH AGGREGATE SIZE FOR SLAB ON GRADE SHALL BE 1" MINUS FOR SLABS LESS THAN 5" THICK AND 1½" MINUS FOR SLABS 5" AND THICKER.
   B. ADD SUPPLEMENTARY CEMENTITIOUS MATERIAL TO SLAB ON GRADE AND EXPOSED WALL CONCRETE MIXES. DO NO ADD SUPPLEMENTARY CEMENTITIUOS MATERIAL TO AIR ENTRAINED MIXES. PROVIDE BETWEEN 10 PERCENT AND 20 PERCENT REPLACEMENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. INCLUDE THIS MATERIAL IN WATER CEMENT RATIO. SUPPLEMENTARY CEMENTITIOUS MATERIAL TO BE SLAG OR FLY ASH. SLAG TO MEET ASTM C989 GROUND GRANULATED BLAST-FURNACE SLAG ADDED PER ASTM C595. FLY ASH TO MEET ASTM C618 WITH LOSS ON IGNITION TO BE 3 PERCENT OR LESS. SUPPLEMENTARY CEMENTITIOUS MATERIAL MAY BE ADDED TO OTHER CONCRETE MIXES AND INCLUDED IN WATER CEMENT RATIO BUT IS NOT TO BE USED AS PERT OF THE MINIMUM CEMENT. SUPPLEMENTARY MATERIAL NOT TO EXCEED 20 PERCENT OF TOTAL WEIGHT OF CEMENTITIOUS MATERIALS UNLESS SPECIFICALLY APPROVED, AND SPECIAL TESTING IS PROVIDED BY CONTRACTOR TO CONSIDER LATE STRENGTH DEVELOPMENT AND FINISHING.
   C. DESIGN SLUMP SHALL BE A MINIMUM OF 3" AND MAXIMUM OF 9". FIELD VARIATION FROM SLUMP +½" TO -1". WHEN CONCRETE IS TO BE PUMPED ADD PLASTICIZERS AND PROVIDE A NEW MIX DESIGN TO INCREASE SLUMP TO A PUMPABLE MIX. DO NOT ADD WATER AT THE JOBSITE UNLESS AUTHORIZED BY CONCRETE SUPPLIER.
   D. AIR ENTRAINMENT SHALL BE PER ACI AT ALL EXTERIOR SLABS AND FLAT WORK.
   E. ADMIX SHALL BE WATER REDUCING ADMIX (POZZOLITH/POLYHEED/RHEOBUILD OR EQUAL).
   F. ALL ADMIXTURES ARE TO BE FROM THE SAME MANUFACTURER UNLESS EVIDENCE IS SUBMITTED VERIFYING COMPATIBILITY OF MULTIPLE SOURCE ADMIXTURES.
7. CONTINUOUSLY MOIST CURE CONCRETE SLAB-ON-GRADE FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS ARE NOT ACCEPTABLE, UNLESS APPROVED BY ENGINEER OF RECORD.
8. SLAB-ON-GRADE CONSTRUCTION JOINTS:
   A. SUBMIT ALTERNATE JOINT LOCATIONS, OR JOINTS NOT SHOWN, TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.
   B. BREAK BOND BETWEEN NEW AND PREVIOUSLY POURED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE OF KEY WITH CURING COMPOUND OR FORM OIL.
   C. LONG STRIP CONSTRUCTION METHOD SHALL BE USED FOR ALL SLAB-ON-GRADE, UNLESS APPROVED BY ENGINEER OF RECORD.
   D. SUBGRADE SHALL BE FREE OF STANDING WATER AT TIME OF CONCRETE PLACEMENT.
9. SLAB-ON-GRADE CONTROL JOINTS:
   A. MAKE SAW CUTS AS SOON AS SLAB CAN SUPPORT WEIGHT OF WORKERS AND EQUIPMENT WITHOUT DAMAGE TO SLAB FINISH, AND CUTS CAN BE MADE WITHOUT DAMAGE TO THE CONCRETE. MAKE TRIAL CUTS AS REQUIRED.
   B. JOINTS TO BE THOROUGHLY CLEANED PRIOR TO FILLING. PROVIDE FILLER MATERIAL IN ACCORDANCE WITH SPECIFICATIONS AND APPLY STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
   C. FILLER MATERIAL SHALL BE APPLIED WHEN SLAB IS UNDER PERMANENT TEMPERATURE CONTROL, SUCH AS AT THE COMPLETION OF THE BUILDING SHELL. WHENEVER POSSIBLE, IF PERMANENT TEMPERATURE CONTROL IS NOT ESTABLISHED, A MIN OF 90 DAYS AFTER COMPLETION OF SLAB CONSTRUCTION SHALL ELAPSE PRIOR TO APPLYING JOINT FILLER.
10. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.
11. CONCRETE FILL THICKNESS SHOWN ON PLANS ARE MINIMUM THICKNESS. NO ALLOWANCES HAVE BEEN MADE FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR FRAME, DECK, OR FORMWORK DEFLECTIONS TO MAINTAIN SURFACE TOLERANCES.

FORMWORK (CAST-IN-PLACE CONCRETE)

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
   A. ACI 301 SECTION 2 "FORMWORK AND ACCESSORIES".
2. PROVIDE POUR POCKETS IN FORMS AND AROUND MEMBERS AS REQUIRED TO PREVENT AIR POCKETS OR HONEYCOMB.
3. PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS INCLUDING, BUT NOT LIMITED TO WALLS, COLUMNS, AND ELEVATED STRUCTURAL SLABS.
4. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:

LOCATION	REMOVE FORMS NO SOONER THAN
FOOTINGS	48 HOURS

STRUCTURAL STEEL

1. REFERENCE STANDARDS (CURRENTLY ADOPTED EDITIONS)
   A. AISC "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN".
   B. AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES".
   C. RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
   D. AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
   E. AWS D1.6 "STRUCTURAL WELDING CODE - STAINLESS STEEL".
2. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING, UNO:

SECTIONS	TYPE
PLATES	
BASE PLATES	ASTM A36
OTHER	ASTM A36
CONNECTORS AND STUDS	
HIGH STRENGTH BOLTS	A325
MACHINE BOLTS (HEX HEAD)	ASTM A307
ANCHOR RODS	ASTM F1554 GRADE 36
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563 GRADE DH
PLAIN WASHERS	ANSI B18.22.1

3. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153, CLASS C, STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780 TO ACHIEVE ORIGINAL GALVANIZING THICKNESS.
4. STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO VIEW IN COMPLETED STRUCTURES ARE TO BE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).
5. PROVIDE NATURAL CAMBER UP, UNO, EXCEPT AT CANTILEVERS. AT CANTILEVERS PROVIDE CAMBER SUCH THAT TIP OF CANTILEVER IS ABOVE FINAL ELEVATION.
6. SPLICE MEMBERS ONLY WHERE INDICATED.
7. CONNECT ALL MEMBERS WITH HIGH-STRENGTH BOLTS AND CONFORM TO THE FOLLOWING:
   A. BEARING TYPE CONNECTIONS:
   B. PROVIDE TYPE N BOLTS AT ALL LOCATIONS NOT NOTED ON DRAWINGS AS TYPE SC.
   C. PROVIDE HARDENED WASHERS UNDER ELEMENTS TO BE TIGHTENED. PROVIDE NUTS & WASHERS IN ACCORDANCE W/ THE STRUCTURAL STEEL MEMBER TABLE.
   D. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION.
   E. SLIP CRITICAL CONNECTIONS (TYPE SC):
   F. PROVIDE LOAD-INDICATING BOLT ASSEMBLIES. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
   G. IN LIEU OF LOAD-INDICATING BOLTS, PROVIDE STANDARD TYPE ASTM A325 SC BOLTS (CLASS A) WITH LOAD-INDICATING WASHERS. WASHERS TO CONFORM WITH ASTM F959.
   H. FULLY TENSION TYPE SC BOLTS.
   I. REMOVE ALL PAINT AT SLIP-CRITICAL BOLT CONTACT SURFACES AND PROVIDE CLASS A FAYING SURFACE.
   J. DO NOT WELD HIGH-STRENGTH BOLTS.
8. ALL BOLT HOLES TO BE STANDARD SIZED HOLES, UNO.
9. PROVIDE BEVELED WASHERS AT BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES.
10. CONTRACTOR TO DESIGN AND PROVIDE ERECTION AIDS (BOLTS, CLIPS, SHIMS, SEATS, ETC) REQUIRED TO FACILITATE CONSTRUCTION.
11. APPLY BITUMINOUS ASPHALT COATING TO ALL BURIED STEEL ELEMENTS.
13. ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXX OR E70XXX MINIMUM AS APPLICABLE. ELECTRODES WITH CHARPY V-NOTCH (CVN) TEST VALUES OF A MINIMUM 20 FT-LBS AT MINUS 20 DEGREES FAHRENHEIT AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT ARE TO BE USED AT THE FOLLOWING LOCATIONS:
   A. COMPLETE JOINT PENETRATION WELDS
   B. BEAM TO COLUMN MOMENT CONNECTIONS - INCLUDING FLANGE, WEB, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS
   C. BRACE CONNECTIONS - INCLUDING BRACE, GUSSET, BASE PLATES, BEAM STIFFENER PLATES, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS
   D. WELDS NOTED "CVN" ON THE DRAWINGS
14. WELDERS TO BE CERTIFIED BY AWS AND THE GOVERNING JURISDICTION.

LOGS

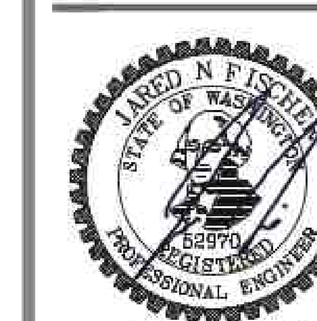
1. LOGS SHALL CONFORM TO ASTM D3957 FOR STRESS GRADING.
2. LOGS TO BE FIT UP SNUG WITH WEATHER TIGHT JOINTS AND SEAMS.
3. MAXIMUM ALLOWABLE LOG TAPER IS ⅛ INCH PER 12 INCHES FROM TIP TO 36 INCHES FROM BUTT.
4. LOG DESIGN VALUES ASSUME THAT THE LOG BEAM IS COMPLETELY ROUND OR SHAVED ALONG ONLY ONE SURFACE SUCH THAT THE SAWING OR SHAVING DOES NOT EXCEED 3/10 OF THE RADIUS OF THE LOG AT ANY POINT.
5. LOG SIZES SHOWN ON PLAN REPRESENT AVERAGE LOG SIZE AT MIDSPAN.
6. USE LOG WITH THE FOLLOWING GRADES:

MEMBER	GRADE
BEAMS, JOISTS, TRUSSES, POSTS, AND DECK POSTS	DOUGLAS FIR (N) No.2 PER ASTM D3957

ROUND TIMBER COLUMNS

1. TIMBERS SHALL BE WESTERN SPECIES DOUGLAS FIR.
2. SIZE SHALL BE 24" DIAMETER AT THE BUTT END (BOTTOM), WITH NO MORE THAN A ⅛" TAPER UP TO THE TOP OF THE COLUMN.
3. THE FOLLOWING DEFECTS ARE NOT ACCEPTABLE: SNOW OR WIND BREAKS, SUCKER KNOTS, WORM HOLES LARGER THAN 1/16" IN DIAMETER, REVERSE SWEEP, SPLITS, GROUP SWELL, SCARS OR ROT. MAXIMUM ALLOWABLE SWEEP IN ONE (1) PLANE OVER THE LENGTH OF THE COLUMN IS ONE INCH (1").
4. THE SUM DIAMETER OF KNOTS OVER THE LENGTH OF THE COLUMN SHALL BE NO MORE THAN FIFTEEN INCHES (15"). KNOTS SHALL BE NEATLY TRIMMED AND SHALL BE FLUSH WITH THE BODY OF THE POLE. DO NOT OVER CUT.
5. TIMBERS SHALL HAVE THE BARK PEELED AND THE SURFACE CLEANED AND PREPARED PRIOR TO PAINTING. SEE THE ARCHITECTURAL SPECIFICATIONS FOR PAINT AND FINISHING REQUIREMENTS.
6. TIMBERS MUST BE SEASONED AND IN THE DRY FOR A MINIMUM OF SIX (6) MONTHS PRIOR TO PAINTING.
7. TOPS AND BOTTOMS MUST BE CUT SQUARE AND FLAT. THE SELECTION OF TIMBERS MUST BE VISUALLY REVIEWED AND APPROVED BY THE PROJECT ARCHITECT PRIOR TO INSTALLATION. ENOUGH BARK MUST BE REMOVED ON PROPOSED SPECIMENS TO REVEAL ANY OF THE ABOVE-MENTIONED DEFECTS. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY TIMBER FOR AESTHETIC REASONS.

WAYPOINT ENGINEERING
info@waypointwa.com
360.635.6611
601 Main Street, #400
Vancouver, WA 98660
http://waypointwa.com



EXPIRES: 10/31/2022

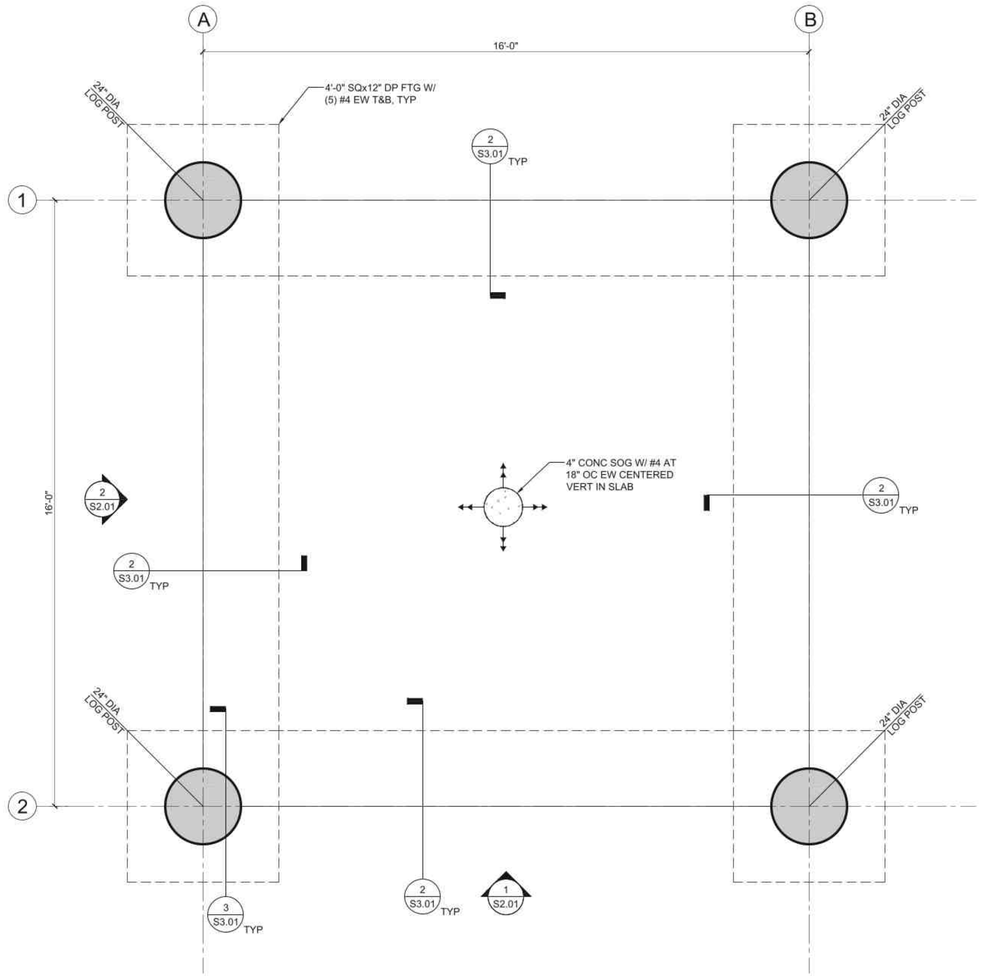
CLUB LOG ARCH

GENERAL STRUCTURAL NOTES

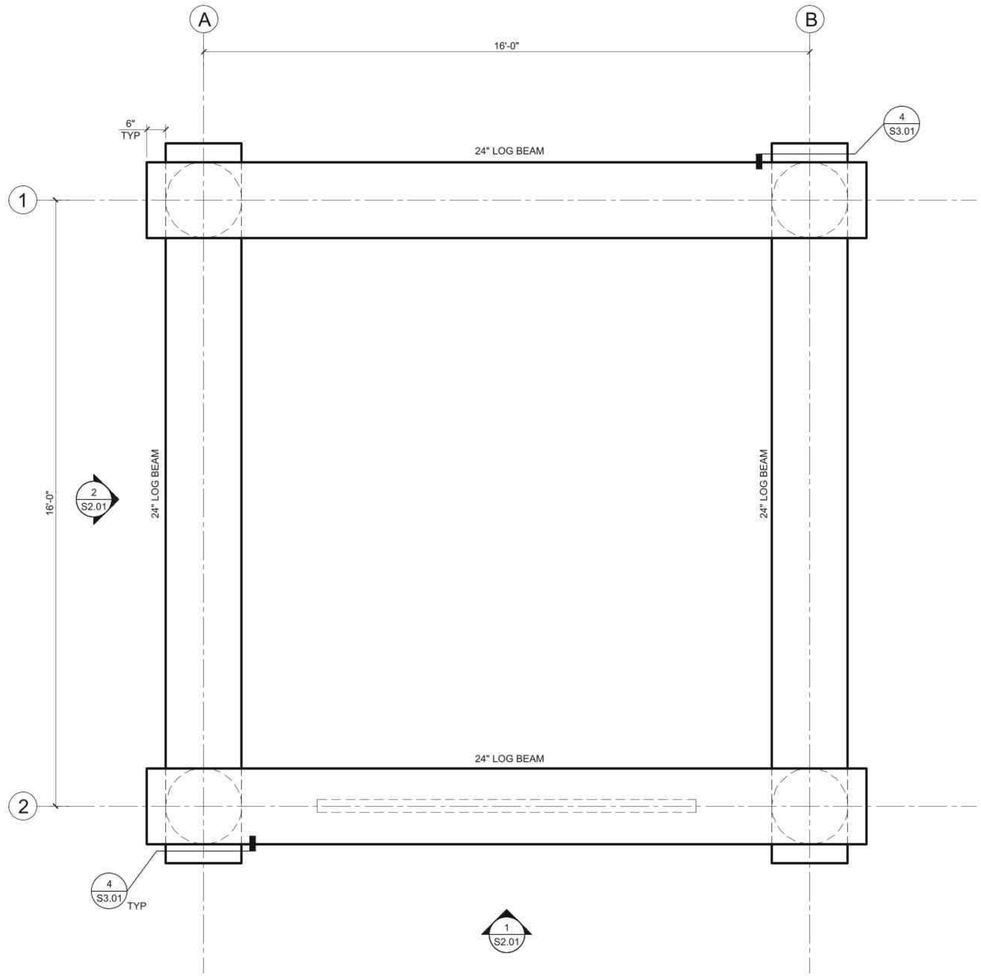
REVISION # DATE NAME

DESIGN DEVELOPMENT

DATE: 02/23/2021
JOB NUMBER: 20138
PAGE REFERENCE: PAGE 1 OF 4
SHEET NUMBER: S0.01



1 FOUNDATION PLAN
SCALE: 1/2"=1'-0"



2 CANOPY PLAN
SCALE: 1/2"=1'-0"

WAYPOINT ENGINEERING
info@waypointwa.com
360.635.6611
601 Main Street, #400
Vancouver, WA 98660
http://waypointwa.com

EXPIRES: 10/31/2022

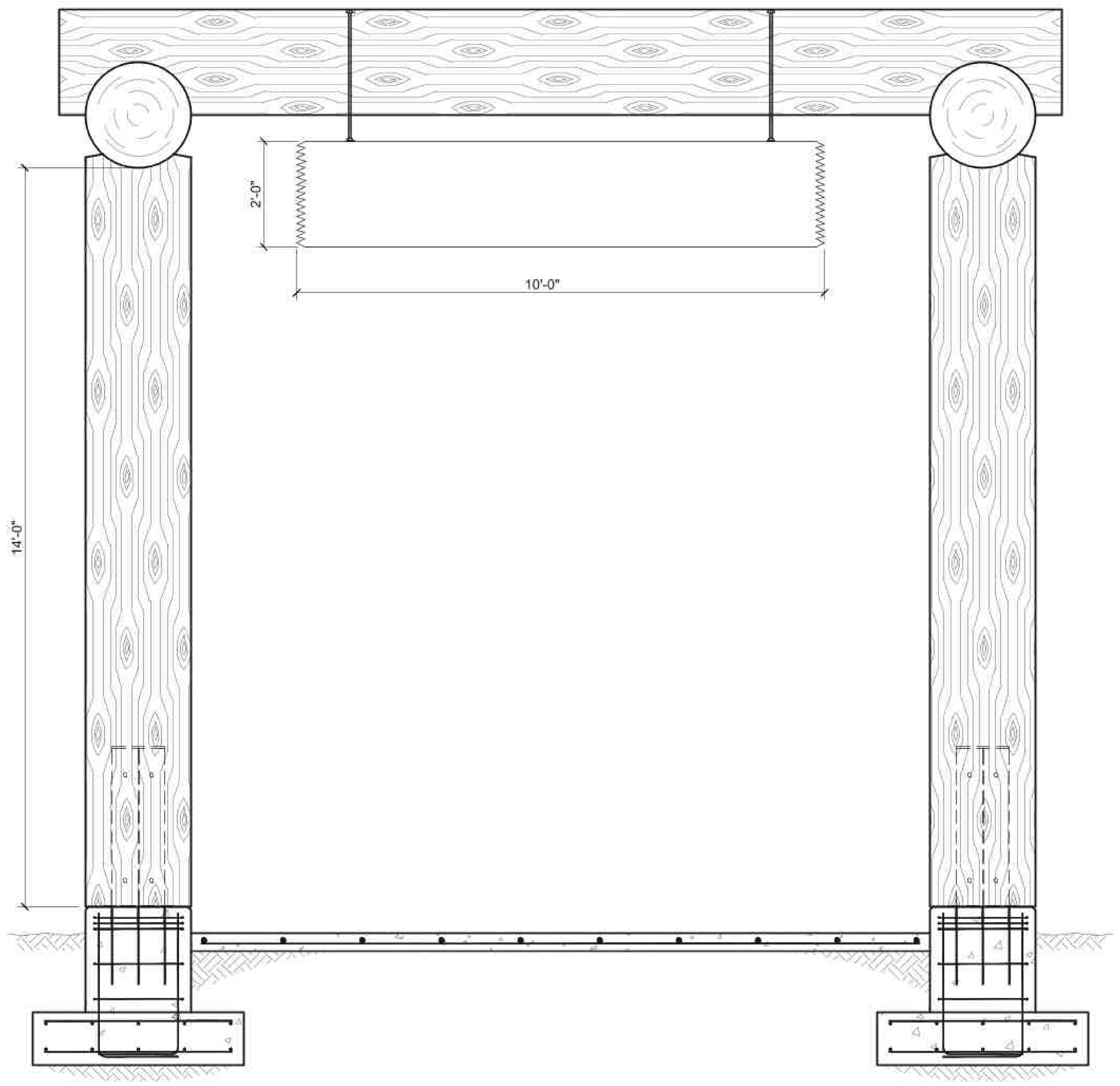
CLUB LOG ARCH

STRUCTURAL FOUNDATION/CANOPY PLAN

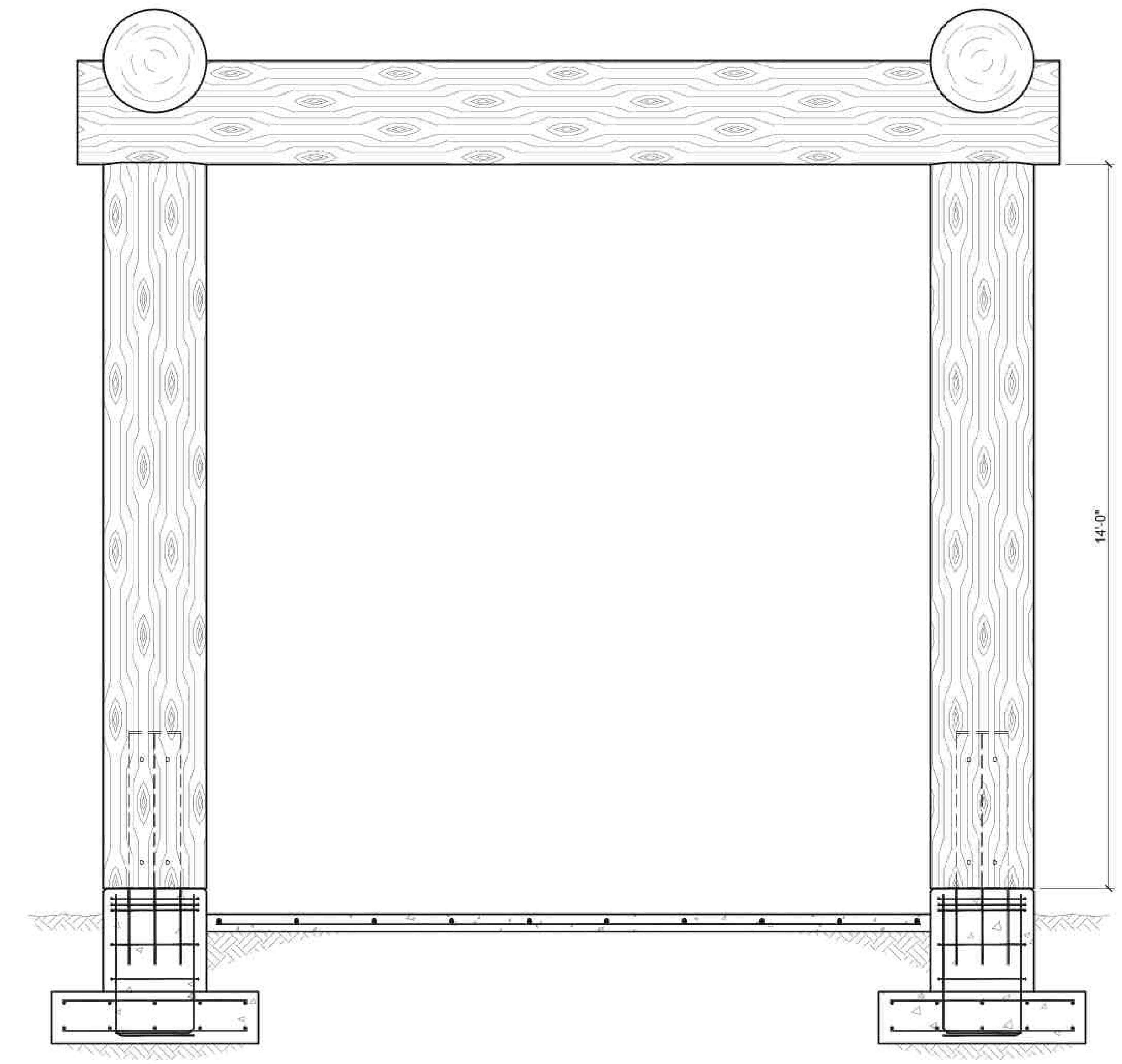
REVISION # DATE NAME

DESIGN DEVELOPMENT

DATE: 02/23/2021
JOB NUMBER: 20138
PAGE REFERENCE: PAGE 1 OF 4
SHEET NUMBER: S1.01



1 SOUTH ELEVATION
SCALE: 1/2"=1'-0"



2 WEST ELEVATION
SCALE: 1/2"=1'-0"

WAYPOINT ENGINEERING
info@waypointwa.com
360.635.6611
601 Main Street, #400
Vancouver, WA 98660
http://waypointwa.com

JARED N FISCHER
STATE OF WASHINGTON
52970
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 10/31/2022

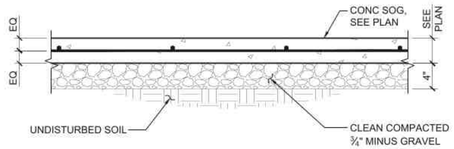
CLUB LOG ARCH

ELEVATIONS

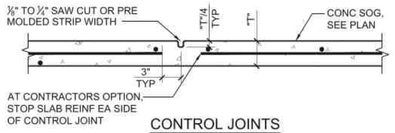
REVISION #	DATE	NAME

DESIGN DEVELOPMENT

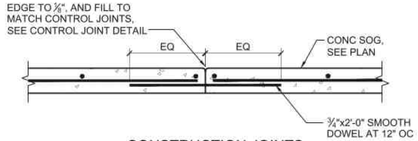
DATE: 02/23/2021
JOB NUMBER: 20138
PAGE REFERENCE: PAGE 2 OF 4
SHEET NUMBER: S2.01



SLAB ON GRADE AND SUBGRADE PREP

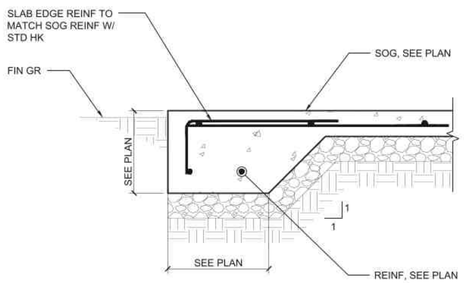


CONTROL JOINTS

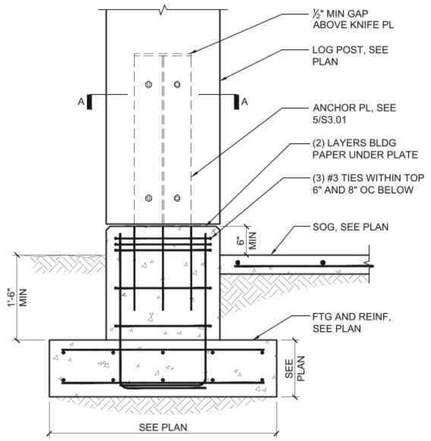


CONSTRUCTION JOINTS

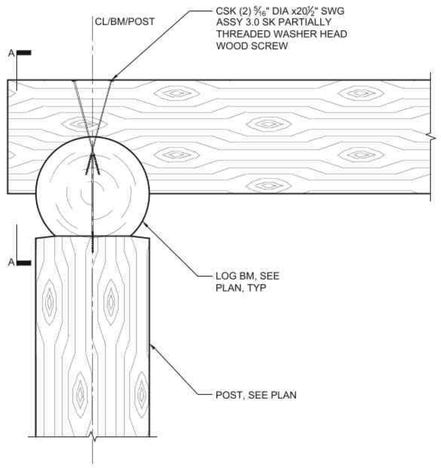
1 TYP SLAB ON GRADE
SCALE: 1"=1'-0"



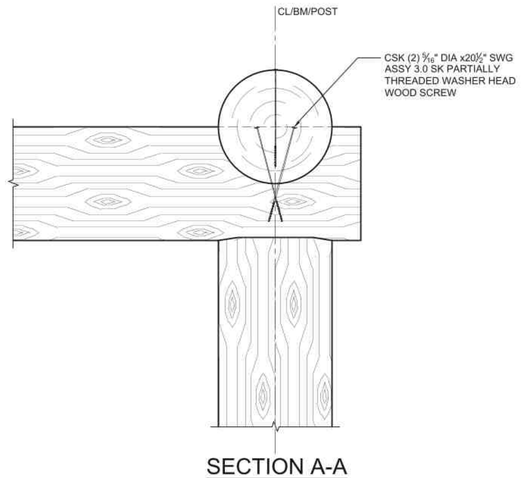
2 THICKENED SOG EDGE (AT GRADE)
SCALE: 1"=1'-0"



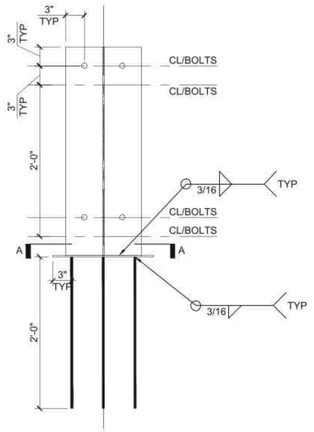
3 DECK POST DETAIL
SCALE: 3/4"=1'-0"



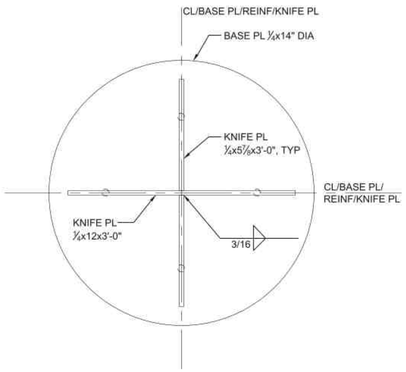
4 BEAM TO COLUMN CONNECTION
SCALE: 3/4"=1'-0"



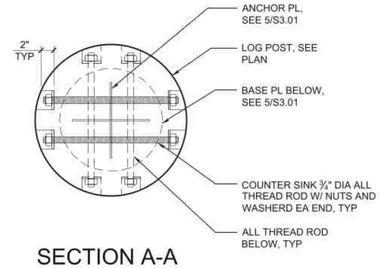
SECTION A-A



5 ANCHOR PLATE
SCALE: 1"=1'-0"



SECTION A-A



SECTION A-A

WAYPOINT ENGINEERING
info@waypointwa.com
360.635.6611
601 Main Street, #400
Vancouver, WA 98660
http://waypointwa.com

LICENSED PROFESSIONAL ENGINEER STATE OF WASHINGTON 52970
EXPIRES: 10/31/2022

CLUB LOG ARCH

DETAILS

REVISION # DATE NAME

DESIGN DEVELOPMENT

DATE: 02/23/2021
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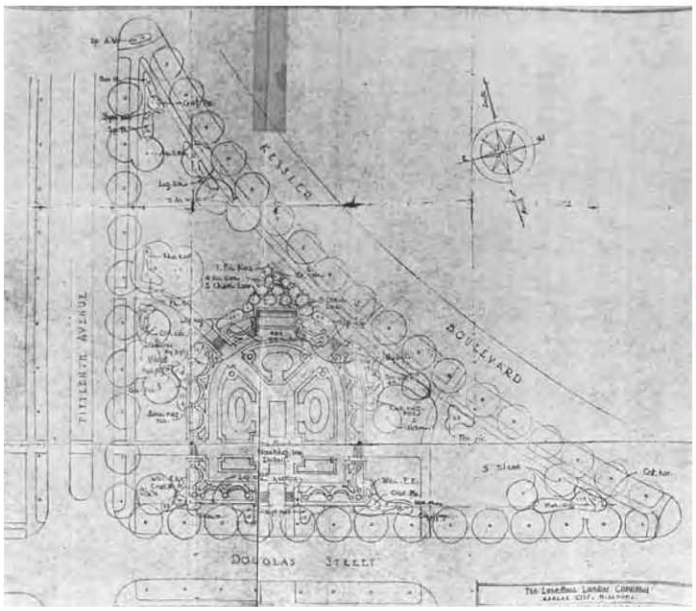
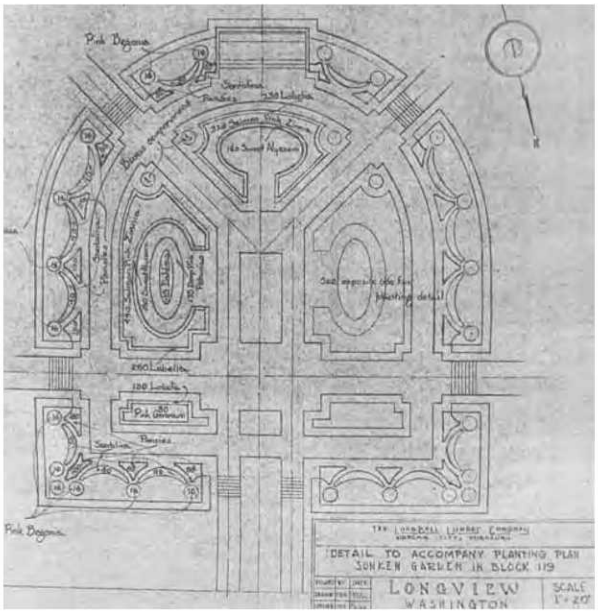


city formally named the island Lion's Island in honor of the club.

During the 1970s the park experienced several additions. In 1973 the double log arches were erected at Hemlock Street and in 1975 the series of wood docks along the lake were added. In 1979 the city undertook a five million dollar effort to improve water quality in the lake through construction of an eight-foot diameter culvert the length of the park's east shore (paralleling Kessler Boulevard). This diversion tunnel allowed muddy spring and storm water from the river and ditches to be diverted through this tunnel bypassing the lake instead of discharging into it. When the river flows clear water is run through the culvert and allowed out through valves along the east side of the lake to flush the lake with freshwater. This improvement also allowed the lake to serve as a flood control mechanism, capable of handling upwards of sixteen million gallons of water for each foot rise in water level.



During the 1980s the city redirected storm water along the park's east side to flow into the culvert (added in 1979) along the shoreline. This diverted the storm water that used to run into the lake out through the culvert away from the lake. Storm water along the west side still runs into the lake;

ELEMENT	ORIGINAL DESIGN	ALTERATIONS	STATUS	LEVEL	CONDITION
Docks, Section D	NA	• 1975 additions to the east and west shores of the lake in section D included: • East: just below the Elks Memorial building, same as others, wood end grain center pieces in both projections with connecting walkway between two docks, wood end grain border along east side between concrete and shoreline. • West: north at bridge same as others, but much smaller, no end grain wood sections, added pathway down to dock, gravel. • Middle: added pathways down to dock, gravel, added retaining walls, dock same as north dock in section C, though missing some of end grain wood sections. • South: added pathways down to dock, gravel, same dock type as in section C, shelter, added retaining wall.	NHNC	None	Intact
Double Log Arches	NA	• Added in 1973, at west end of Hemlock street, the arches feature cross timbers 20 feet long and rest on support logs 14 feet tall. Individual logs are 2 feet in diameter. Added on 50th Anniversary celebration of Longview. Intent was to duplicate the original 1924 arches used in the Pageant of Progress at intersection of Washington Way and Vandercook Way. Built with donated materials and labor.	NHNC	None	Intact

https://tdn.com/news/local/log-arches-at-lake-sacajawea-to-be-replaced/article_accf969f-259f-5f5d-9505-a87744a5c565.html

Log arches at Lake Sacajawea to be replaced

Marissa Heffernan
Oct 4, 2019

After standing for 43 years in the heart of Longview, the log arches at Lake Sacajawea were removed in October due to structural concerns. TDN file photo.

Courtney Talak

Marissa Heffernan

The log arches at Lake Sacajawea, rotting after 43 years of exposure to weather, will be replaced after the city takes the old timbers down next week.

Arleen Hubble, representing the Longview '23 Club, said the group is seeking donations of lumber and other assistance to replace the arches. The club, which celebrates and tries to preserve the city's unique history, hopes the new timber structure is up by the new year, Hubble said Thursday.

The log arches were erected at Lake Sacajawea in 1976 by the 23 Club to commemorate the 50th anniversary of Longview's founding.

Courtney Talak

The 23 Club donated the arches in 1976 for the 50th Anniversary celebration of Longview, and modeled the structure off arches used in the 1924 Pageant of Progress marking the founding of the city. The new arches will include a plaque explaining their history.

Hubble agreed with the city's decision to remove the old arches, saying that they are so badly rotten that they could fall. The city made the decision to demolish the old arches after an inspection earlier this week, said City Manager Kurt Sacha.

The arches form a gateway to Hemlock Plaza and one of the focal points of the annual Go 4th Festival Independence Day celebration. They are made up of thick 20-foot crossbeams resting on 14-foot posts.

The top four 20-foot horizontal logs of Lake Sacajawea's wooden sculpture are silhouetted against a partly cloudy afternoon sky on Thursday. Following an inspection, the City of Longview determined the structure is beyond repair.

Courtney Talak

When the posts were installed in 1976, they were put directly into the ground without any kind of moisture barrier, and the decay is too extensive to repair, according to a city press release.

The arches are one of the landmarks at Lake Sacajawea Park.

Kelso resident Molly Brown said Thursday she walks around the lake daily, and that the arches were a focal point of the park.

“It’s just aesthetically pleasing, and a good meeting place,” Brown said as she ambled past the arches on a rainy Thursday morning. “It’s easy to tell people to meet you there.”

She said it was unfortunate a moisture barrier wasn’t installed as part of the original structure, but she certainly wants to see the arches replaced.

As for Kelso resident Scott Yokel, he said he walks the lake every day and never paid much attention to the arches.

“To tell you the truth I never noticed (the arches) until I read it in the paper,” Yokel said.

But Hubble said the arches are too much a part of the park’s history to be without. “It will be put back up,” she asserted.

Marissa Heffernan
Reporter

https://tdn.com/news/local/log-arch-at-lake-sacajawea-demolished-monday-morning/article_9cd88e50-3aa7-55c9-abf8-0e14fd3b9eae.html

Log arch at Lake Sacajawea demolished Monday morning

Marissa Heffernan
Oct 8, 2019

A Longview parks crew clean up debris after tearing down the rotted log arches Monday morning.

Courtney Talak

Marissa Heffernan

Early morning walkers at Lake Sacajawea had to detour around the area near the log arches Monday as City Parks Department crews demolished the structure.

Crews used a chainsaw and backhoe to take down the weighty logs, which were about two feet in diameter and between 14 and 20 feet long. The city decided to remove the arches after an inspection last week revealed rot at the base of the logs was too extensive to repair, according to a city press release.

The arch was installed without a moisture barrier in 1976, allowing the damp Washington weather to eat away at the logs, according to the release. The arch is a gateway to Hemlock Plaza and one of the focal points of the annual Go 4th Festival Independence Day celebration.

The Longview '23 Club donated the log arches for the city's 50th anniversary celebration, according to the press release, and the arch was modeled off arches used in the 1924 Pageant of Progress that marked the founding of the city.

Arleen Hubble, representing the Longview '23 Club, said the club plans to replace the logs by the new year, as the arch is too important to the park's history to be without. The group is currently seeking donations of lumber or other assistance for the new arch.

Marissa Heffernan
Reporter