

PO Box 458 \* Veneta, OR 97487 \* 541-935-2191 \* 541-935-1838 \* [www.VenetaOregon.gov](http://www.VenetaOregon.gov)Type of Permit: New ☒ Alter ☐ Relocated ☐

Permit #: \_\_\_\_\_

Received Date: \_\_\_\_\_

Applicant Name (if not owner): Dan CulnaneDaytime Phone: 541.484.1482Mailing Address: PO BOX 8308, Coburg, OR 97408Physical Address: 4051 W. 1st. Ave., Eugene, OR 97402 Email: dan@imagekingsigns.comProperty Owner Name: ALC1 Properties LLC

Daytime Phone: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

87841 Misty LN Veneta, OR 97487

Assessor's Map Number:	Tax Lot(s) Number: 1705312000108		Zoning District: HWY	
Building Square Feet	Area of Sign (square feet)	Vertical Dimension (feet)	Horizontal Dimension (feet)	Height (feet)
Freestanding sign	97.5 SQ FT	7' - 6"	13'	25'

**Submittal requirements:** Plan and elevation drawn to scale including proposed location, sign material, color, dimensions, shape and height above grade. The drawing shall show the structural elements of the proposed sign and supporting structure(s) and any other information needed to show that the sign will not interfere with traffic safety, public health, or general welfare. **Building Signs:** The diagram shall show where the sign will be attached to the building, including the distance the sign will project from the wall to which it is attached and the height above the finished ground surface over which it is mounted. **Free-standing Signs:** In addition to the diagram, a site plan shall be submitted which shows the placement of the sign on the property with dimensions from property lines, driveways, sidewalks, parking areas and buildings.

Please circle/check the sign district that the sign is proposed to be located within:

Highway 126 Corridor District <input checked="" type="checkbox"/>	Business District <input type="checkbox"/>	Residential District <input type="checkbox"/>	Downtown District <input type="checkbox"/>
-------------------------------------------------------------------	--------------------------------------------	-----------------------------------------------	--------------------------------------------

Note: Sign District depends on the zoning district of the property as described in Veneta Land Development Ordinance No. 493. See Section 5.15(3) – Designated Sign Districts of the ordinance for description of each sign district. Here is a web link to the Veneta Land Development Ordinance No. 493: [https://www.venetaoregon.gov/sites/default/files/fileattachments/planning/page/1252/new\\_land\\_development\\_ordinance\\_493\\_effective\\_october\\_9\\_2019.pdf](https://www.venetaoregon.gov/sites/default/files/fileattachments/planning/page/1252/new_land_development_ordinance_493_effective_october_9_2019.pdf)

Note: You will need to identify the zone in which the sign is proposed in order to determine the applicable sign district. The Veneta Zoning & Floodplain Map can be found here: [https://www.venetaoregon.gov/sites/default/files/fileattachments/planning/page/907/zoning\\_map\\_effective\\_10.9.19.pdf](https://www.venetaoregon.gov/sites/default/files/fileattachments/planning/page/907/zoning_map_effective_10.9.19.pdf)

Application for sign permit. sign located @ the new Iron Clad Storage being built. sign will be installed @ tax lot # 1705312000108.

Please circle/check the type of sign proposed:

Building Sign <input type="checkbox"/>	Banner <input type="checkbox"/>	Directional Sign <input type="checkbox"/>	Window Sign <input type="checkbox"/>	Free Standing Sign <input checked="" type="checkbox"/>
Monument <input type="checkbox"/>	Mural <input type="checkbox"/>	Temporary Sign <input type="checkbox"/>	Portable Sign <input type="checkbox"/>	Projecting Sign <input type="checkbox"/>
Subdivision Identification Sign <input type="checkbox"/>				

Note: Building signs require building permit submittal and approval in addition to Sign Permit. Building permits can be applied for online with CCB license here: <https://aca-oregon.accela.com/oregon/>  
An Electrical permit is required if the sign is proposed to be illuminated.

#### NOTICE

Sign visible from a state highway: Yes ☒ No ☐ (If Yes, please read statement below and initial)

**If property is visible from a state highway a permit from the Oregon Department of Transportation (ODOT) may be required in addition to any city permits. Please contact ODOT for sign requirements (Marie Kennedy, P.E - State Sign Engineer, Phone: 503-986-4013 or website:**

**<https://www.oregon.gov/ODOT/Engineering/Pages/Signing.aspx>.**

Applicant Initials DC

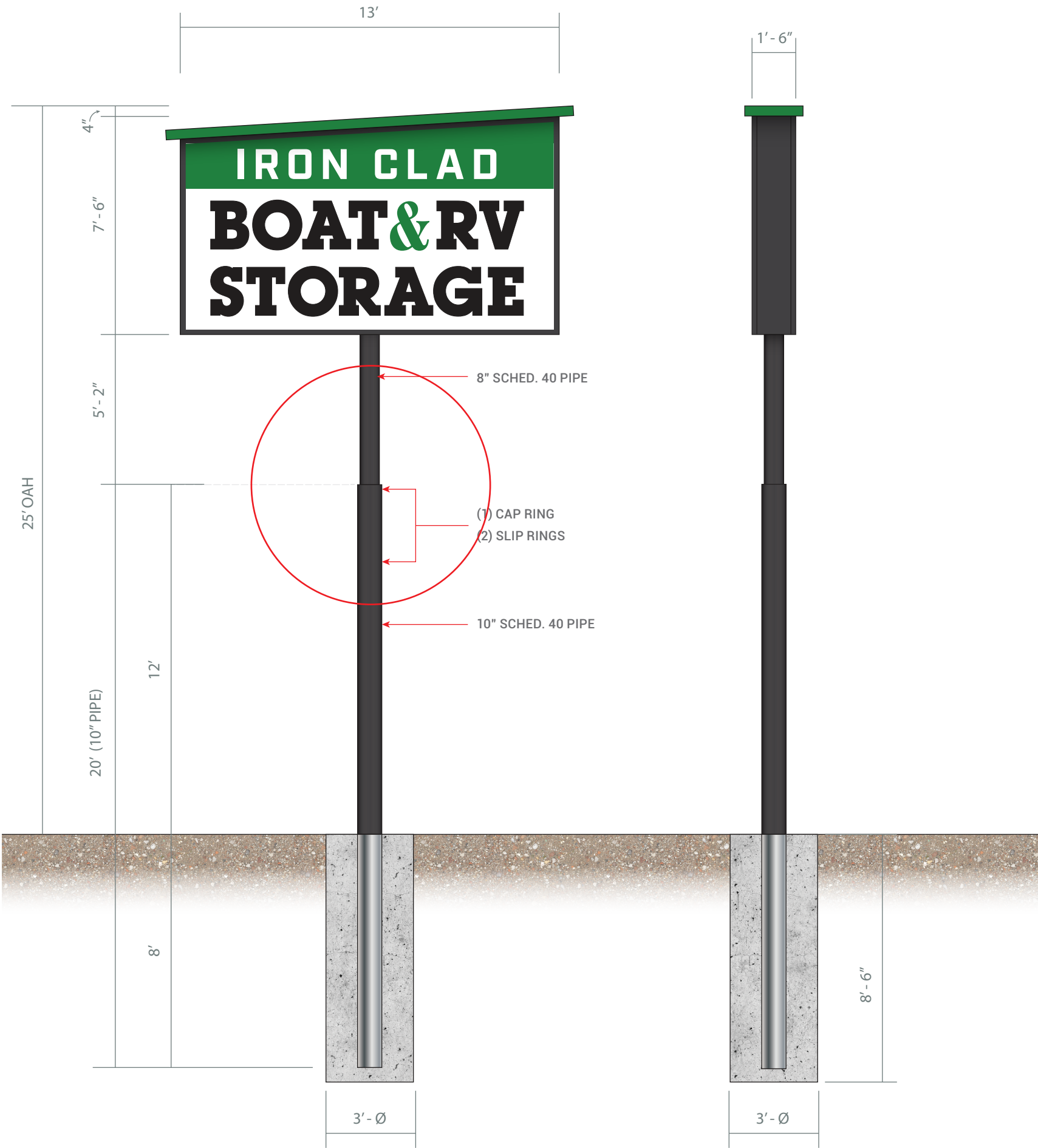
**A permit shall expire if a sign is not installed, as approved, within 180 days from the date of approval. Reapplication shall include a new, fully completed application form and a new application fee. Electrical connections and all supply circuits shall be made by Licensed Electrical Contractor and subject to the provisions of the State Electrical code. A separate permit shall be taken out for electrical work.**

**I HEREBY STATE THAT THE FACTS RELATED IN THE ABOVE APPLICATION AND THE PLANS AND DOCUMENTS SUBMITTED HEREWITH ARE TRUE, COMPLETE, CORRECT, AND ACCURATE TO THE BEST OF MY KNOWLEDGE.**

Property Owner Signature: \_\_\_\_\_

Applicant Signature: \_\_\_\_\_





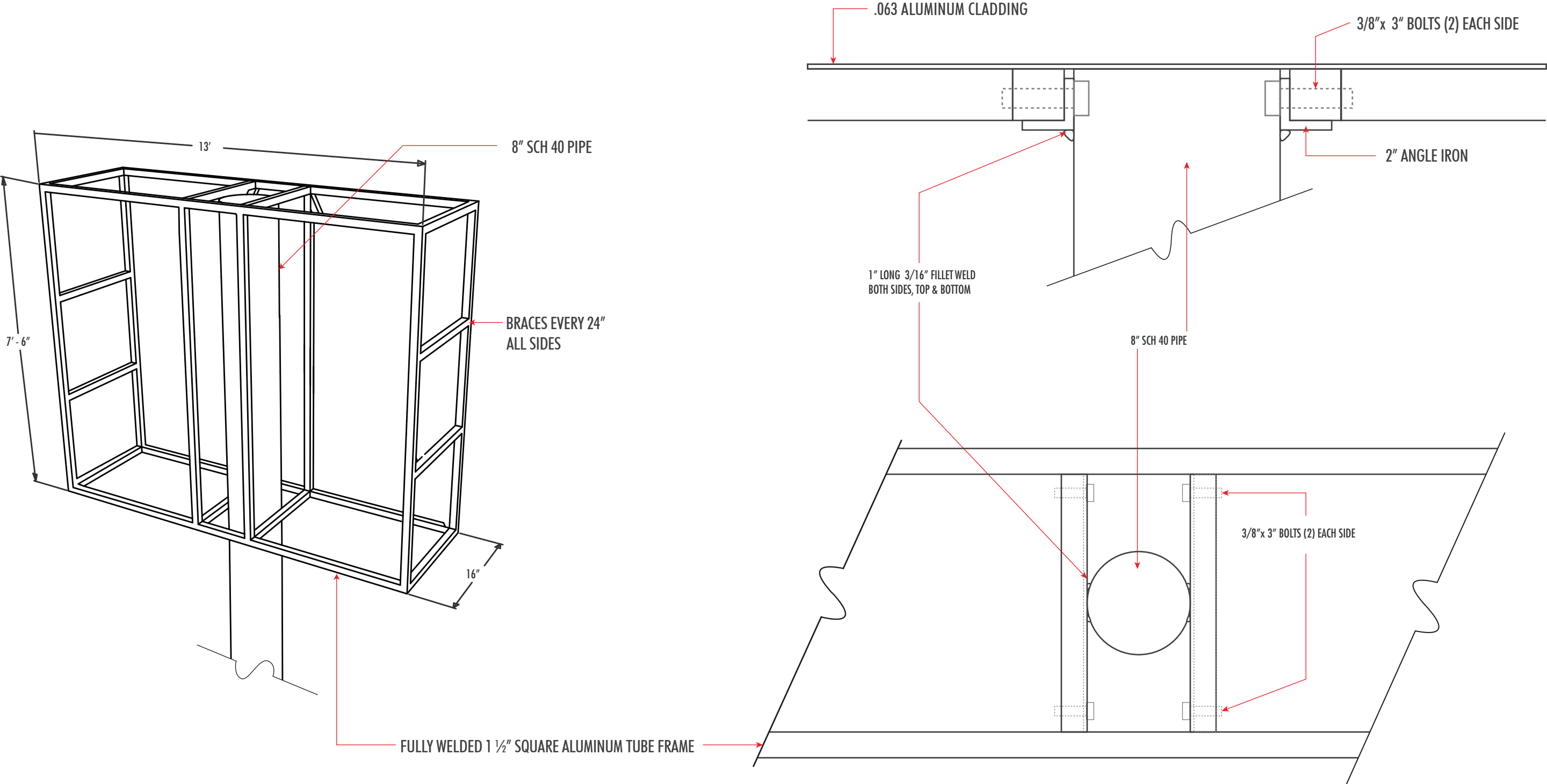
**MFR. & INSTALL (1) D/F POLE SIGN**  
FABRICATED ALUMINUM FRAMEWORK & CABINET CONSTRUCTION  
AUTOMOTIVE PAINT FINISH  
WHITE LEXAN FACES WITH TRANSLUCENT VINYL GRAPHICS  
POWER SUPPLIES  
LED ILLUMINATION  
SCALE: 1/4"=1'

D/F POLE SIGN - AUGURED FOOTING

SCALE: 1/4"=1'	CLIENT C	PROJECT POLE SIGN	SALES REP. BK	DESIGNER M. WIGGINS	DATE 3.2.23	4051 W. 1ST AVE. EUGENE, OR 97402 541.484.1482 www.imageking signs.com
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POLE TO CABINET ATTACHMENT



\* Photo inlay may not be to exact scale. Refer to layout for actual dimensions.



4051 W. 1st Ave.  
Eugene, OR 97402  
541.484.1482

Project:  
Iron Clad Boat & RV Storage

Scale:  
NTS

J/O#  
17555

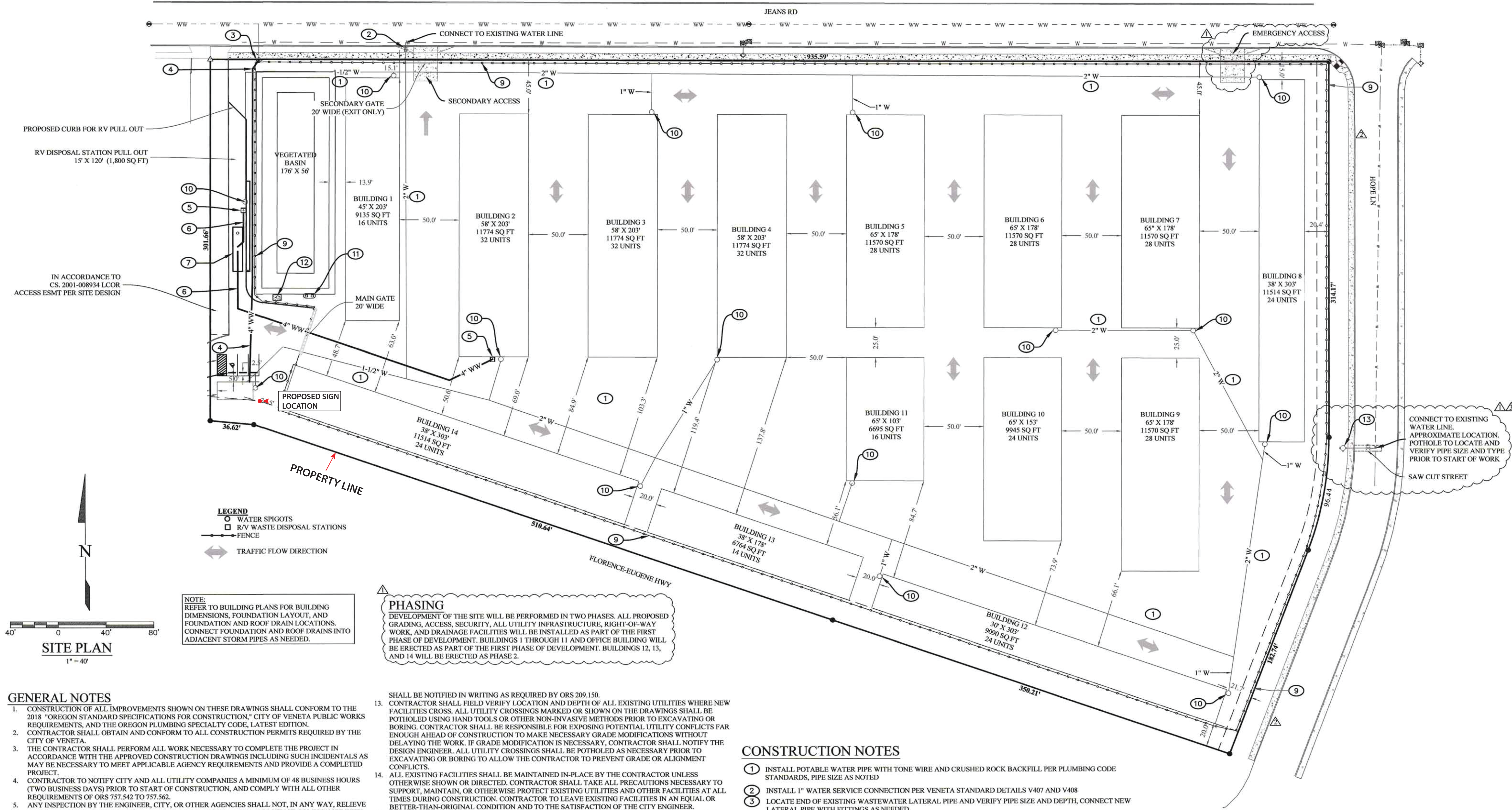
Designer:  
D. Culnane

Sales Rep:  
BK

Date:  
4.12.2023



Feb 20, 2023 - 7:02am  
S:\Projects\0632-Bonanza\22-0075-Jeans Road Commercial\AUTOCAD\CURRENT DWG\FINAL EX CONDITIONS AND SITE PLANS.dwg LAYOUT-SITE PLAN ONLY  
FILE: 0632-Bonanza\22-0075-Jeans Road Commercial\AUTOCAD\CURRENT DWG\FINAL EX CONDITIONS AND SITE PLANS.dwg LAYOUT-SITE PLAN ONLY  
PLOT DATE: 02/20/2023  
PLOT TIME: 7:02AM  
PLOT BY: JLM



## GENERAL NOTES

- CONSTRUCTION OF ALL IMPROVEMENTS SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE 2018 "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION," CITY OF VENETA PUBLIC WORKS REQUIREMENTS, AND THE OREGON PLUMBING SPECIALTY CODE, LATEST EDITION.
- CONTRACTOR SHALL OBTAIN AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF VENETA.
- THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
- CONTRACTOR TO NOTIFY CITY AND ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (TWO BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH ALL OTHER REQUIREMENTS OF ORS 757.542 TO 757.562.
- ANY INSPECTION BY THE ENGINEER, CITY, OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER CITY REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (INCLUDING OREGON AMENDMENTS). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY THE CITY AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
- REQUESTS FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE CITY BEFORE THE CHANGES ARE IMPLEMENTED.
- CONTRACTOR IS RESPONSIBLE FOR LAY OUT AND PROVIDING CONSTRUCTION STAKES AND MARKS TO ESTABLISH THE LINES, GRADES AND SLOPES.
- ANY INCONSISTENCIES, AMBIGUITIES, ERRORS OR OMISSIONS IN THE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987 OR (800) 332-2344).
- THE LOCATION AND DESCRIPTION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY SIZES AND LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM 90 DAYS, AND THE COUNTY SURVEYOR

- SHALL BE NOTIFIED IN WRITING AS REQUIRED BY ORS 209.150.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. ALL UTILITY CROSSINGS MARKED OR SHOWN ON THE DRAWINGS SHALL BE POTHOLED USING HAND TOOLS OR OTHER NON-INVASIVE METHODS PRIOR TO EXCAVATING OR BORING. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER. ALL UTILITY CROSSINGS SHALL BE POTHOLED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.
- ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY ENGINEER.
- UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES.
- CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST, OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
- UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.
- CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE CITY/OWNER OR AS SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS TWO INCHES IN DIAMETER OR LARGER. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
- WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PCC CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS SHALL BE SAWCUT AND REMOVED AT A TOOLED JOINT UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY. THE SAWCUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.
- ASPHALT CONCRETE PAVEMENT SHALL BE FORMULATED FOR THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS FOR 1/2" DENSE GRADED, LEVEL 2 HOT MIXED ASPHALT CONCRETE, AS FULLY DESCRIBED IN SECTION 745 OF THE 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. PLACE ASPHALT MIX IN MAXIMUM 3" LIFTS AND COMPACT TO A MINIMUM 91 PERCENT RELATIVE COMPACTION AS DETERMINED BY RICE DENSITY TEST AASHTO T 209 AS MODIFIED BY ODOT TM 306.

## CONSTRUCTION NOTES

- INSTALL POTABLE WATER PIPE WITH TONE WIRE AND CRUSHED ROCK BACKFILL PER PLUMBING CODE STANDARDS, PIPE SIZE AS NOTED
- INSTALL 1" WATER SERVICE CONNECTION PER VENETA STANDARD DETAILS V407 AND V408
- LOCATE END OF EXISTING WASTEWATER LATERAL PIPE AND VERIFY PIPE SIZE AND DEPTH, CONNECT NEW LATERAL PIPE WITH FITTINGS AS NEEDED
- INSTALL 4-INCH WASTEWATER PIPE WITH TONE WIRE AND CRUSHED ROCK BACKFILL PER PLUMBING CODE STANDARDS AND CONNECT TO OFFICE BUILDING SEWER PIPE
- APPROXIMATE LOCATION OF 4' X 4' CONCRETE RV DISPOSAL STATION
- INSTALL 4" WASTEWATER PIPE WITH TONE WIRE AND CRUSHED ROCK BACKFILL FOR RV DISPOSAL STATION
- INSTALL XERXES FIBERGLASS TANK (8' X 37') 12,000 GAL CAPACITY WITH 22" DIA. RISER FOR TANK PORT AND ANTI-BUOYANCY SYSTEM, APPROXIMATE LOCATION
- INSTALL PRECAST CONCRETE WHEEL STOP AT PARKING SPACE PER DETAIL
- INSTALL 6' HIGH CHAIN LINK SECURITY FENCE TOPPED WITH 3-STRAND BARBED WIRE
- INSTALL WATER SPIGOTS
- INSTALL 500 GAL. PROPANE TANK, LOCATE AS DIRECTED BY OWNER
- INSTALL BACK-UP GENERATOR, LOCATE AS DIRECTED BY OWNER
- INSTALL FIRE HYDRANT ASSEMBLY PER STD DWG RD254 WITH TONE WIRE, CRUSHED ROCK BACKFILL AND THRUST BLOCKS PER STD DWG RD250 AND STREET RESURFACING PER STD DWG RD302 AND CITY REQUIREMENTS

No	Description of Revisions	Date	Name
1	EDITS PER CITY COMMENTS OF 10/10/22	10/10/22	CLB
2	ADD SIDEWALK WEST SIDE OF HOPE LANE	11/22/22	CLB
3	EDITS PER APPROVAL CONDITIONS	2/16/23	CLB

Date	9-21-2022	Design by	CARLOS QUEZADA JR	Checked by	CLINT BEECROFT
Job Number	6632-22-0075	Drawn by			

Sheet Number

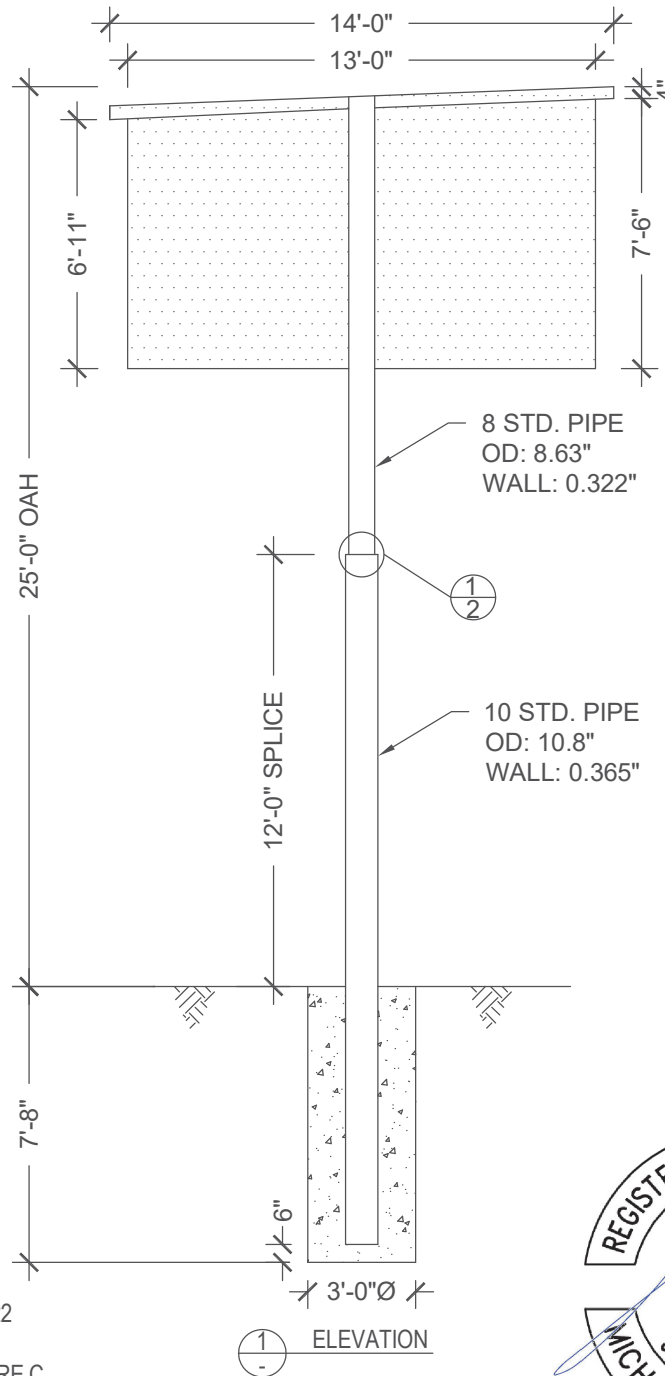




11545 W. BERNARDO COURT, SUITE 201  
 SAN DIEGO, CA 92127  
 PROJECTMANAGER@SULLAWAYENG.COM  
 PHONE: 1-858-312-5150 FAX: 1-858-777-3534

PROJECT: IRON CLAD BOAT & RV STORAGE, 25144 JEANS RD., VENETA, OR  
 PROJECT #: 39875  
 CLIENT: IMAGE KING SIGNS

DATE: 4/13/2023  
 ENGINEER: APS  
 LAST REVISED:



#### GENERAL NOTES

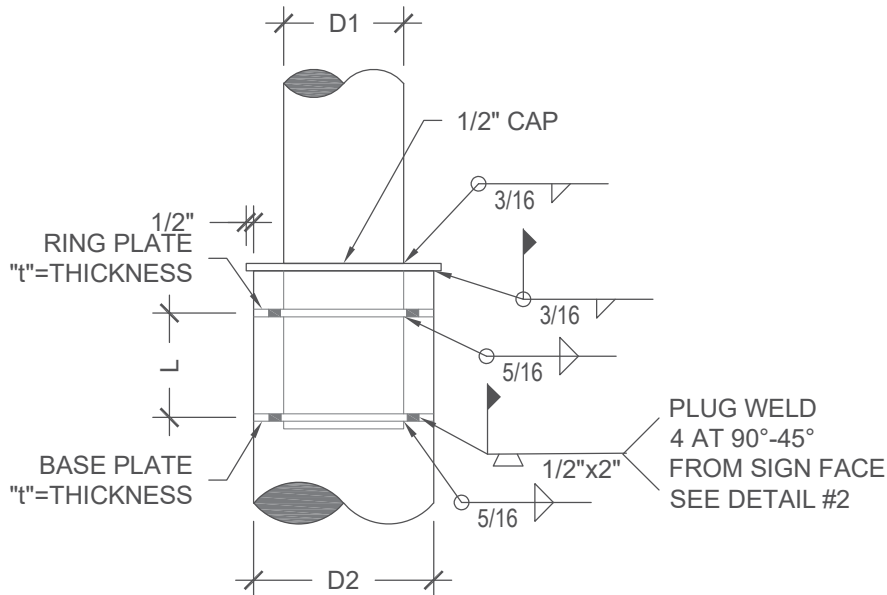
1. DESIGN CODE: IBC 2021, OSSC 2022
2. DESIGN LOADS: ASCE 7-16
3. WIND VELOCITY 100 MPH EXPOSURE C
4. CONCRETE 2500 PSI MINIMUM
5. PIPE STEEL ASTM A53 GR. B,  $F_y = 35$  KSI MIN.
6. PROVIDE MIN. 3" CLEAR COVER ON ALL STEEL EMBEDDED IN CONCRETE WHEN CAST AGAINST SOIL
7. LATERAL SOIL BEARING PER IBC CLASS 4 (150 PSF/FT)
8. PROVIDE PROTECTION AGAINST DISSIMILAR METALS
9. ALL DIMENSIONS TO BE VERIFIED PRIOR TO FABRICATION



EXPIRES: 06-30-2024

PROJECT: IRON CLAD BOAT & RV STORAGE, 25144 JEANS RD., VENETA, OR  
PROJECT #: 39875  
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DATE: 4/13/2023  
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LAST REVISED:



# 1 -

SPLICE DETAIL

## NOTES:

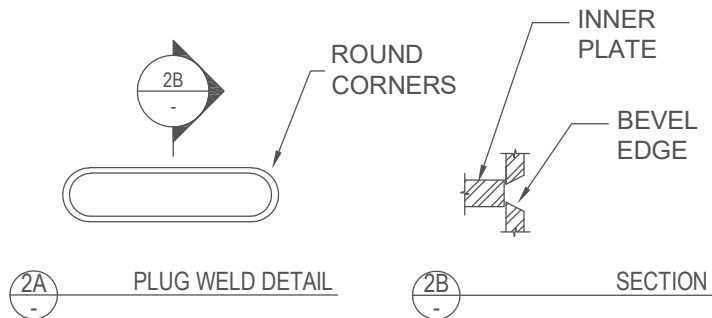
1. THIS DETAIL MAY BE USED FOR PIPE AND SQUARE TUBE SECTIONS.
2.  $L = 1.5 \times D1$  OR 12", WHICHEVER IS LARGEST

## THICKNESS (t)

FOR D1 THRU 16" DIA., USE  $t = 1/2"$  PL.

FOR 16" DIA. < D1 < 30" DIA., USE  $t = 3/4"$  PL.

FOR D1 > 30" DIA., USE  $t = 1"$  PL.



EXPIRES: 06-30-2024





PROJECT: IRON CLAD BOAT & RV STORAGE  
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V5.5

units; pounds, feet unless noted otherwise

### Applied Wind Loads; from ASCE 7-16

$F = q_z * G * C_f * A_f$  with  $q_z = 0.00256 K_z K_{zt} K_d V^2$  (29.3.2 & 29.4)  
 $C_f = 1.800$  (Fig. 29.3-1)  $1.00$   $0$  max. height= 25.0  
 $K_{zt} = 1.0$  (26.8.2) (=1.0 unless unusual landscape)  
 $K_z$  = from table 28.3-1 Exposure= c  
 $K_d = 0.85$  for signs (table 26.6-1)  
 $V = 100$  mph  
 $G = 0.85$  (26.9) weight= 1.132 kips  
 $s/h = 0.300$   $M_{DL} = 0.00$  k-ft  
 $B/s = 1.73$

Pole Loads	structure component	height at section c.g.	$K_z$	$q_z$	pressure $q_z * G * C_f$	$A_f$	shear	Wind Moment $M_w$
	1	6.00	0.850	18.5	28.30	10.80	306	1834
	2	13.50	0.850	18.5	28.30	2.16	61	824
	3	16.08	0.862	18.8	28.70	1.56	45	719
	4	18.58	0.886	19.3	29.50	35.69	1053	19563
	5	22.5	0.921	20.0	30.66	62.98	1931	43442
sums:							113.19	3395
							66.38	( $M_w$ ) k-ft arm= 19.6
			$P_u = 1.36$ kip					
			$M_u = \sqrt{1.2 M_{DL}^2 + 1.0 M_w^2} = 66.38$ k-ft					
							$M = 66.38$ k-ft	$M = \sqrt{M_{DL}^2 + M_w^2}$

### Pole Design section; pipe

$M_u \leq \phi M_n$ with $M_n = f_y Z$		$f_y = 35$ ksi	$\phi = 0.9$				
H	$M_u$ (k-ft)	Z req'd. (in)	Size (in)	t (in)	Z	USE	
at grade	66.38	25.29	10	0.365	36.9	10 Std. Pipe, $\phi M_n = 96.8$ k-ft	
splice at 12 ft	27.48	10.5	6	0.28	10.6	8 Std. Pipe, $\phi M_n = 54.6$ k-ft	

### Footing Design footprint: round

$\omega = 1.3$  IBC 1605.3.2 IBC Table 1806.2, sections 1806.3.4, 1807.3.2  $S = (1.3 \times 2 \times 150 \text{ psf/ft})$   
 $P = 2.65$  kip  $S_1 = S \times d / 3$   $A = 2.34 \times P / (S_1 \times b)$   $S = 400$   
 $S_1 = 1020$   $d = 0.5 \times A (1 + (1 + 4.36 \times h/A)^{.5})$  IBC 1807.3.2.1  
 $A = 2.02$

footing: 3' - 0" dia.

7' - 8" deep



PROJECT: IRON CLAD BOAT & RV STORAGE  
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 CLIENT: IMAGE KING SIGNS

DATE: 4/13/2023  
 ENGINEER: APS

units; pounds, feet unless noted otherwise

Check Pipe 10SCH40 for torsion and combined forces

(AISC 14 H3)

Wind pressure =  $P = 30.66$  psf (See Page #3)  
 Trib. Area =  $A = 98.67$  ft<sup>2</sup> (See Page #3)  
 Wind Load =  $WL = 3.025$  k ( $P \cdot A$ )  
 arm =  $33.60$  in ( $0.2 \cdot (14' - 0'')$ )

$T_r = 101.65$  k-in ( $WL \cdot \text{arm}$ )

$F_{cr} = 129.54$  ksi (eq'n. H3-2a)

or

$F_{cr} = 97.192$  ksi (eq'n. H3-2b)

but not greater than:

$0.6 F_y = 21$  ksi

$F_y = 35$  ksi

$D = 10.8$  in

$t = 0.340$  in

$E = 29000$  ksi

$L = 144.00$  in

$C = 58.43$  in<sup>3</sup>

$\phi = 0.9$

$\phi T_n = \phi F_{cr} C = 1104$  k-in OK

$M_r/M_c + (T_r/T_c)^2 = 0.69 < 1$  OK (eq'n. H3-6)  
 (See Page #3 for  $M_r$  & AISC Manual for  $M_c$ )



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units; pounds, feet unless noted otherwise

Check Pipe 8SCH40 for torsion and combined forces

(AISC 14 H3)

Wind pressure =  $P = 30.66$  psf (See Page #3)

Trib. Area =  $A = 98.67$  ft<sup>2</sup> (See Page #3)

Wind Load =  $WL = 3.025$  k ( $P \cdot A$ )

arm =  $33.60$  in ( $0.2 \cdot (14' - 0'')$ )

$T_r = 101.65$  k-in ( $WL \cdot \text{arm}$ )

$F_{cr} = 125.93$  ksi (eq'n. H3-2a)

or

$F_{cr} = 112.78$  ksi (eq'n. H3-2b)

but not greater than:

$0.6 F_y = 21$  ksi

$\phi T_n = \phi F_{cr} C = 618$  k-in OK

$M_r/M_c + (T_r/T_c)^2 = 0.53 < 1$  OK (eq'n. H3-6)

(See Page #3 for  $M_r$  & AISC Manual for  $M_c$ )

$F_y = 35$  ksi

$D = 8.63$  in

$t = 0.300$  in

$E = 29000$  ksi

$L = 156.00$  in

$C = 32.70$  in<sup>3</sup>

$\phi = 0.9$