

SYNTHESIS 9, LLC

523 N. D ST. TACOMA, WA 98403

REUSE OF DOCUMENTS



PRCP20250912

WN CROSSING PORT No.10 IR WAY PUYALLUP W. AST TOW CARPO E PIONEER

EAST

REVISIONS

REVISIONS

CHECKED BY:

SITE PLAN & Carport No.10 PROJECT INFO PROJECT #:

AS1.0

BUILDING CODE:

2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) SHALL BE USED AND SUPPLEMENTED WITH (ASCE) 7-16.

BUILDING CODE REFERENCES:

ALL CODE REFERENCES HEREAFTER SHALL CORRESPOND TO THE FOLLOWING EDITIONS. U.N.O.:

CODE EDITION MATERIAL

CONCRETE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, (ACI 318)-19. 2004 ACI DETAILING MANUAL (ACI SP-66). REINFORCING 15TH EDITION OF (AISC) STEEL CONSTRUCTION STEEL MANUAL.

STRUCTURAL WELDING CODE - STEEL, (AWS) WELDING

D1.1-20.

2016 (AISI) NORTH AMERICAN SPECIFICATION LIGHT GAGE STEEL

FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2.

LOADS:

RISK CATEGORY = II

DESIGN DATA:

ROOF DEAD LOAD AT CARPORTS DL ROOFING AND TRIM

1.03 PSF DL FOR PURLINS SELF WEIGHT 25 PSF ROOF SNOW LOAD

WIND:

THE WIND LOADS ARE DETERMINED IN ACCORDANCE WITH ASCE 7-16:

BASIC WIND SPEED V: 110 MPH **EXPOSURE CATEGORY:** WIND IMPORTANCE FACTOR: 1.0

SEISMIC:

IMPORTANCE FACTOR le = 1.0LATITUDE = 47.213645; LONGITUDE = -122.365315Ss = 1.308, S1 = 0.451, SEISMIC SITE CLASS = DSds = 1.047, Sd1 = 0.834, SEISMIC DESIGN CATEGORY = DRW = 1.25 STEEL ORDINARY CANTILEVERED COLUMNS CS = 0.838

FOUNDATION:

GROUND TO BE SW, SP, SM, SC GM & GC PER IBC TABLE 1806.2 ALLOWABLE SOIL: BEARING CAPACITY (DL+LL): 2,000 PSF

CONTRACTOR SHALL VERIFY SOIL CONDITION PRIOR TO PROCEEDING WITH CONSTRUCTION

CONCRETE:

MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 PSI TO COMPLY WITH EXPOSURE REQUIREMENT OF IBC TABLE 1904.1. STRUCTURAL DESIGN IS BASED ON f'c OF 2,500 PSI. PER IBC 1705.3, NO SPECIAL INSPECTION IS REQUIRED.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI. MAXIMUM WATER/CEMENT RATIO (W/C) SHALL BE 0.55. PROVIDE AIR ENTRAINMENT (5% \pm 1%) IN CONCRETE EXPOSED TO FREEZE-THAW ACTION.

STRUCTURAL STEEL:

STRUCTURAL STEEL MATERIALS, FABRICATION AND ERECTION SHALL CONFORM TO CURRENT AISC STEEL CONSTRUCTION MANUAL IN ACCORDANCE TO IBC CHAPTER 22. PAINT ALL STRUCTURAL STEEL EXPOSED TO WEATHER UNLESS NOTED OTHERWISE ON DRAWINGS.

MATERIAL SPECIFICATION. UNLESS NOTED OTHERWISE:

STRUCTURAL SHAPES: ASTM A992 GRADE 50 BARS AND PLATES: ASTM A36 STRUCTURAL TUBING/HSS: ASTM A500, GRADE B (FY = 46 KSI)

ASTM A307

FLAT; BEVELED WASHERS: ASTM F436 DIRECT-TENSION WASHERS: ASTM F959

FILLER METAL: E70XX ELECTRODES, ALL WELDS SHALL BE SINGLE

PASS 3/16" UNLESS NOTED OTHERWISE

COLD FORMED SHAPES: ASTM A653, FY = 50 KSIROOF METAL DECK: ASTM A792. FY = 80 KSI

SCREW FASTENERS:

SELF DRILLING AND SELF-TAPPING SCREWS SHALL BE #12-14 TEK SCREWS OR APPROVED EQUAL AND SHALL CONFORM TO ASTM A545 OR SAEJ78. SAEJ93 OR ANSI/ASMEB18.6.4.

ROOFING:

1 3/8" PROFILE x 26 GA ROOF DECK (V-LINE 32) OR EQUIVALENT WITH #12-14 TEK SCREWS AT 9" O.C. UNLESS NOTED OTHERWISE OR (4) SCREWS PER 32" WIDE PANEL @ EACH SUPPORT

ROOFING IS V-LINE 32 - 26 GA

GAUGE	WT.	S+	+	S-	-
	(IBS/FT2)	(IN3/FT)	(IN4/FT)	(IN3/FT)	(IN4/FT)
26	0.91	0.0847	0.0619	0.0833	0.0619

PURLINS:

ALL PURLINS ARE ASTM A653 CEE 10 X 3 1/2 X 12 GAUGE UNLESS NOTED OTHERWISE. WITH THE FOLLOWING MINIMUM GROSS PROPERTIES:

GAUGE	DEPTH	FLANGE	LIP	SX	IX	Fy
	(IN)	(IN)	(IN)	(IN3)	(IN4)	(KSI)
12	10.00	3.5	1.0	5.63	28.148	50

GENERAL:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS OR MATERIALS. SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

AS REV. ON DRAWING: SUBJECT OF REVISION: REVISION #:

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

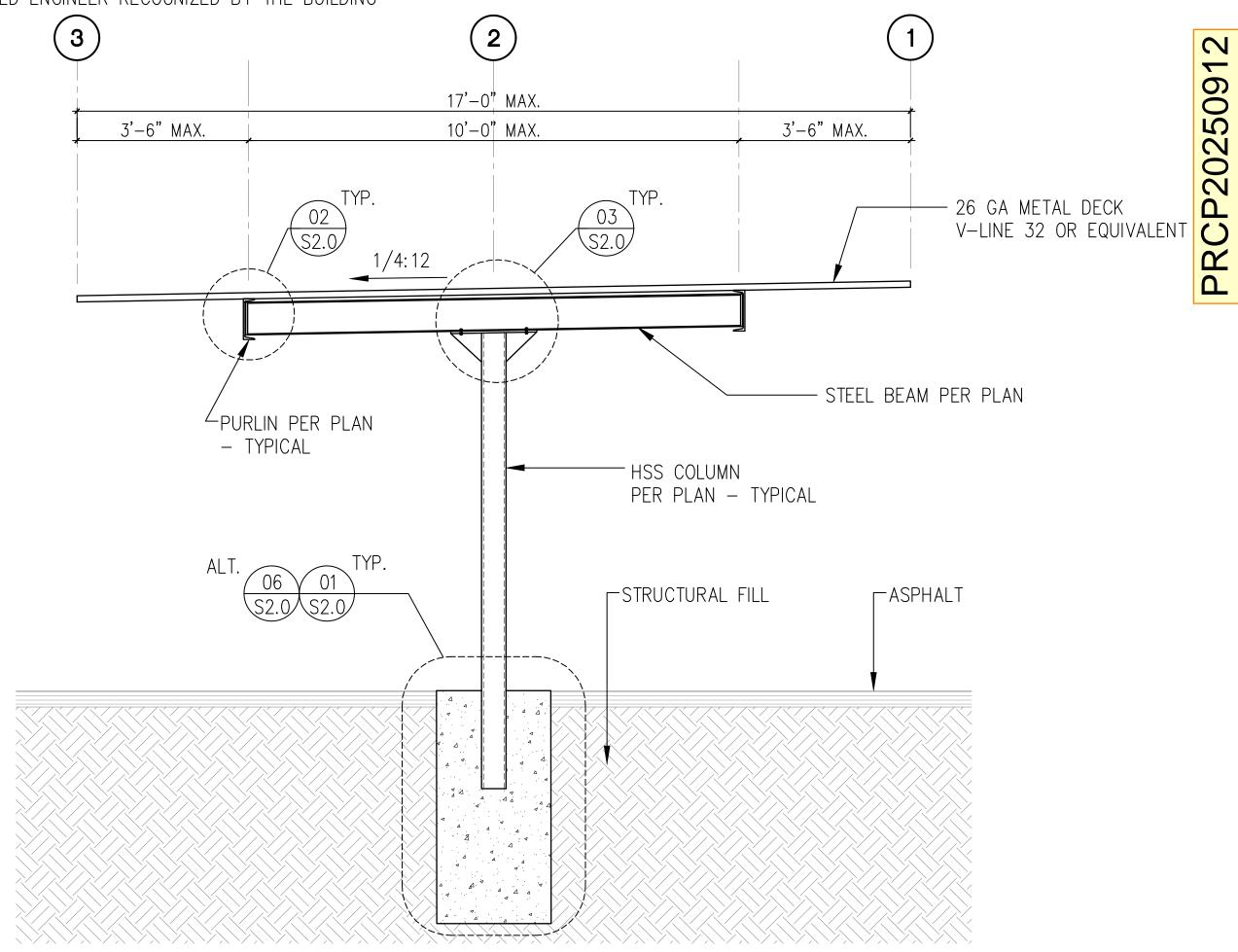
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE OWNER.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY, U.N.O.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND/OR SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING

CODE JURISDICTION OF THIS PROJECT.





TYPICAL SECTION



DATE:

TYPE:

EAST TOWN CROSSING CARPORTS

PIONEER WAY E PUYALLUP, WA 9837

GENERAL STRUCTURAL NOTES AND TYPICAL SECTION

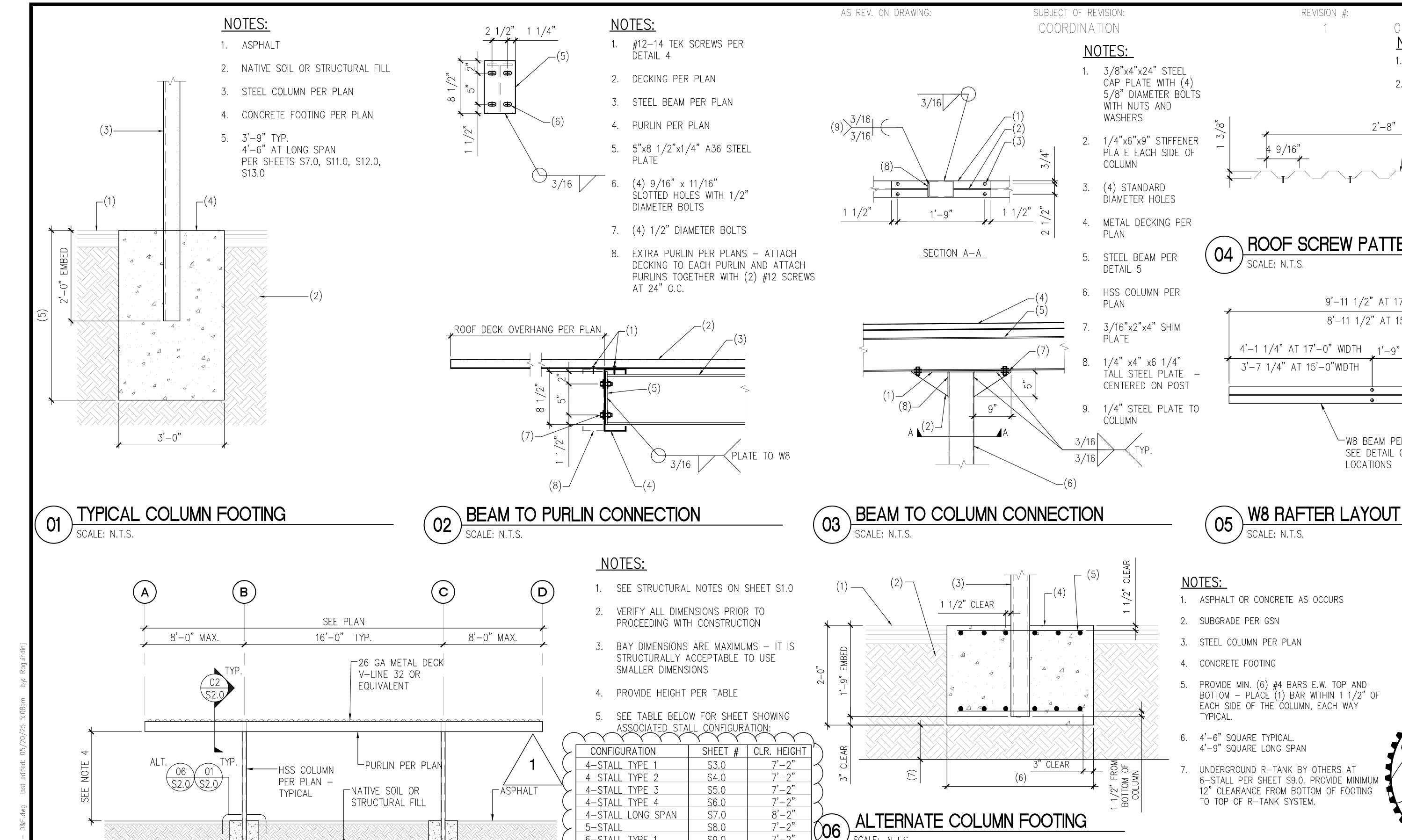
CARPORTS OF WASHINGTON

P.O. BOX 2389 BUCKLEY, WASHINGTON 98321



http://www.sittshill.com/

4815 CENTER STREET | TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 DESIGNED _____JPR S_{1.0} DRAWN _____ CHECKED ____CJT DATE ____02/10/25 20,822 scale ____AS NOTED



6-STALL TYPE 1

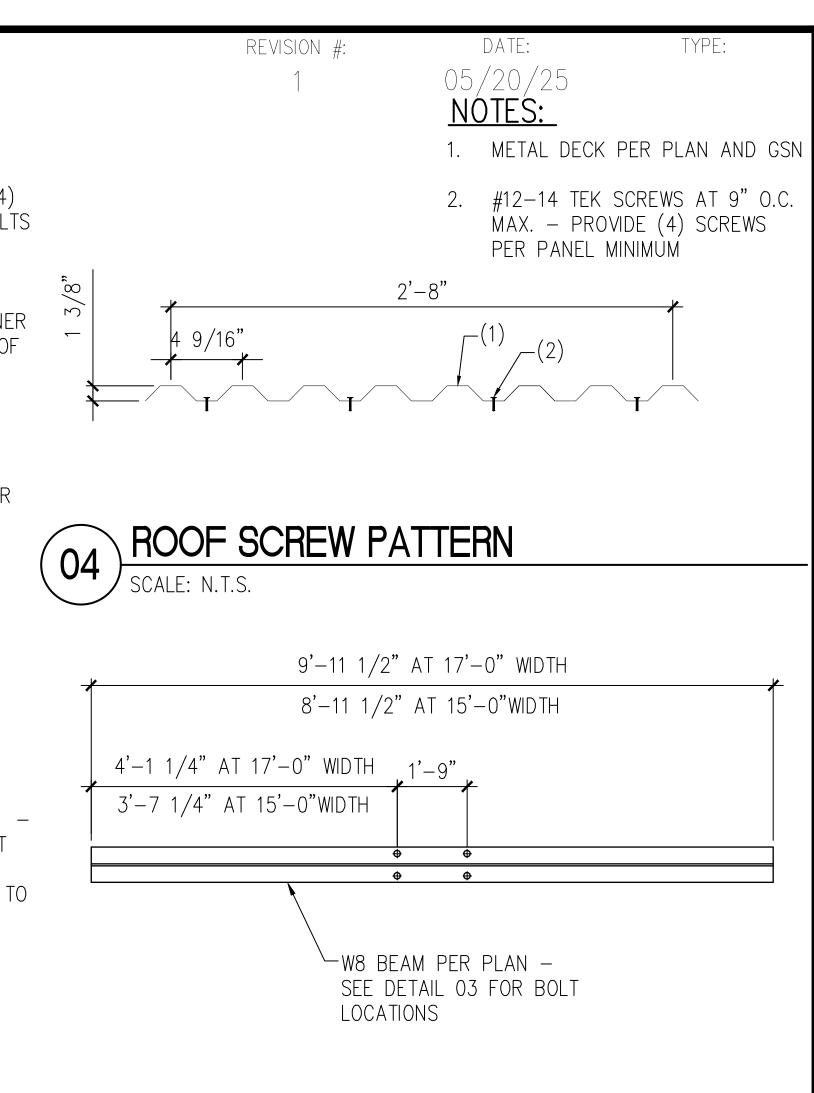
6-STALL TYPE 2

TYPICAL ELEVATION

6-STALL LONG SPAN

9-STALL LONG TYPE

9-STALL LONG TYPE 2



1. ASPHALT OR CONCRETE AS OCCURS

3. STEEL COLUMN PER PLAN

5. PROVIDE MIN. (6) #4 BARS E.W. TOP AND BOTTOM - PLÀCÉ (1) BAR WITHIN 1 1/2" OF EACH SIDE OF THE COLUMN, EACH WAY

6. 4'-6" SQUARE TYPICAL. 4'-9" SQUARE LONG SPAN

UNDERGROUND R-TANK BY OTHERS AT 6-STALL PER SHEET S9.0. PROVIDE MINIMUM 12" CLEARANCE FROM BOTTOM OF FOOTING TO TOP OF R-TANK SYSTEM.

EAST TOWN CROSSING CARPORTS

SCALE: N.T.S.

PIONEER WAY E PUYALLUP, WA 9837

TYPICAL DETAILS AND ELEVATION

7'-2"

7'-2"

7'-2"

8'-2"

7'-2"

S9.0

S11.0

S12.0

S13.0

S14.0

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CIVIL | STRUCTURAL | SURVEY 4815 CENTER STREET

DESIGNED ____JPR S2.0 DRAWN _____ CHECKED ____CJT DATE ____05/20/2025 SCALE ____AS NOTED

20,822

PRCP20250912

