



**GENERAL STRUCTURAL NOTES**

(The following apply unless shown otherwise on the plans)

44. COLD-FORMED STEEL FRAMING NOTES - THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAUGE SHOWN ON THE PLANS. ALL FRAMING MEMBERS SHALL COMPLY WITH I.C.C. REPORT NO. ESR-3064F. NOTATIONS ON THE DRAWINGS, RELATING TO MEMBER TYPES AND SIZES OR MISCELLANEOUS FRAMING ITEMS, REFER TO CATALOG NUMBERS OF MEMBERS MANUFACTURED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED FOR FRAMING SHOWN, PROVIDED THEY ARE EQUIVALENT IN SHAPE, SIZE, STIFFNESS, AND STRENGTH. ALTERNATE FRAMING SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FABRICATION. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE A.I.S.I. 'SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.'

B. MATERIAL:  
METAL FRAMING SHALL BE GALVANIZED UNLESS OTHERWISE NOTED, CONFORMING AS FOLLOWS:

ASTM A653 55 GRADE 50, CLASS 1 OR 3       $F_y = 50$  KSI    118, 97, 68, AND 54 MIL  
ASTM A653 55 GRADE 33                               $F_y = 33$  KSI    43 AND 33 MIL

WHERE NOTED, PAINTED STUDS SHALL CONFORM TO:  
ASTM A1011 55 GRADE 50                               $F_y = 50$  KSI    118, 97, 68, AND 54 MIL

C. WELDING OF COLD-FORMED METAL FRAMING SHALL CONFORM TO AWS D13 AND SHALL BE PERFORMED BY WELDERS QUALIFIED TO PRODUCE THE SPECIFIED CLASSES OF WELD.

D. WALL FRAMING: ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 400S162-43 @ 16" O.C. AT INTERIOR WALLS AND 600S162-43 AT 16" O.C. AT EXTERIOR WALLS. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. TWO 600S162-54 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS UNLESS OTHERWISE NOTED. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS. SOLID BLOCKING FOR MULTI-STUD OR STEEL COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS FULL WIDTH BLOCKING AT 1/3 POINTS OF ALL STUD WALLS UNLESS NOTED OTHERWISE. MAXIMUM GAP BETWEEN STUD AND TRACK AT ANY POINT SHALL NOT EXCEED 1/16-INCH. NO SPLICES ARE PERMITTED IN STUDS.

ALL STUD WALLS SHALL HAVE THEIR BOTTOM TRACKS ATTACHED TO FRAMING BELOW WITH #10 SCREWS AT 16" O.C. OR ATTACHED TO CONCRETE WITH 5/32" DIAMETER DRIVE-PINS @ 16" O.C. UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE WELDED OR SCREWED TO EACH OTHER IN ACCORDANCE WITH THE DETAILS. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND STRAP BRACING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES AND GYPSUM SHEATHING ON EXTERIOR SURFACES SCREWED TO ALL STUDS, TOP AND BOTTOM TRACKS, AND BLOCKING WITH SCREWS AT 12" O.C. ALL SCREWS SHALL BE 'GRABBER' TYPE FASTENERS COMPLYING WITH I.C.C. REPORT NO. ESR-1211. ALL SPECIFIED PNEUMATIC FASTENERS SHALL BE ETA-14, COMPLYING WITH I.C.C. REPORT NO. ESR-1111.

ALL BEARING STUDS SHALL BE LATERALLY SUPPORTED TO PREVENT PEAK AXIS BUCKLING WITH A CENTER U-CHANNEL AT 1/3 POINTS AS SHOWN IN THE DETAILS AND CONNECTING EACH FLANGE TO GYPSUM WALLBOARD PER IBC SECTION 2502.1.

TRACK SECTIONS SHALL BE UNPUNCHED AND HAVE AT LEAST 1" FLANGES AND MATCH STUD THICKNESS.

WALLS WHICH HAVE SHEATHING CONNECTED ON ONE SIDE ONLY SHALL HAVE UNSHEATHED FLANGES LATERALLY SUPPORTED IN ACCORDANCE WITH THE DETAILS.

NOT USED

45. METAL BUILDING SYSTEM (MBS)

A. BUILDING MANUFACTURER SHALL DESIGN BUILDINGS FOR THE LOADS, SPANS AND CONDITIONS SHOWN ON THESE DRAWINGS.

B. ALL COLUMNS SHALL BE DESIGNED ASSUMING THEY ARE FREE TO ROTATE, DO NOT FIX COLUMN BASES.

C. DESIGN AND PROVIDE SUPPORTS AROUND OVERHEAD DOORS. A MINIMUM COLLATERAL LOADING OF 10 PSF SHALL BE INCLUDED IN THE DESIGN OF THE ROOF TO ACCOUNT FOR MISCELLANEOUS DEAD LOAD. THE LATERAL DRIFT OF THE BUILDING SHALL BE LIMITED TO 0.02H, WHERE H IS THE HEIGHT OF THE BUILDING. ALL ROOF MEMBERS SHALL BE LIMITED TO A MAXIMUM TOTAL DEFLECTION OF L/180.

D. COORDINATE ALL DETAILS WHICH ARE SHOWN ON THESE DRAWINGS WITH THE PREFABRICATED BUILDING DESIGN.

E. COORDINATE THE FINAL FOUNDATION LOADING AND BASE PLATE CONFIGURATION WITH THE STRUCTURAL ENGINEER. FOUNDATION DESIGN SHOWN IN THESE PLANS MAY NEED TO BE REVISED BASED UPON THE FINAL DESIGN AND/OR COLUMN LOCATIONS.

F. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER. THE BUILDING MANUFACTURER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BASIC STRUCTURE.

STRUCTURAL OBSERVATION

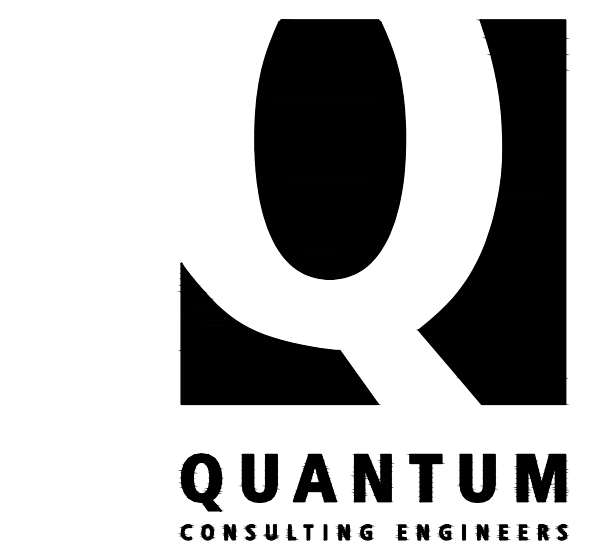
AS NOTED IN IBC SECTION 1704.6 STRUCTURAL OBSERVATION IS REQUIRED FOR THIS PROJECT. STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, INCLUDING BUT NOT LIMITED TO, THE ELEMENTS AND CONNECTIONS AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR MAIVE THE RESPONSIBILITY OF THE INSPECTIONS REQUIRED BY IBC SECTIONS 110 AND 1704.

IN OUR STRUCTURAL OBSERVATION, WE WILL SELECT PORTIONS OF WORK TO REVIEW CLOSELY AS WELL AS OBSERVE THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. SUCH REVIEW PROCEDURES WILL BE CONDUCTED IN ACCORDANCE WITH COMMONLY ACCEPTED STANDARDS OF PRACTICE. THE BUILDING OFFICIAL UNDERSTANDS THAT SUCH PROCEDURES INDICATE ACTUAL CONDITIONS ONLY WHERE THE REVIEW IS PERFORMED AND THAT THE RESULTS WILL BE INFERRED TO EXIST IN OTHER AREAS NOT REVIEWED.

THE BUILDING OFFICIAL ALSO RECOGNIZES THAT STRUCTURAL REVIEW IS A TECHNIQUE EMPLOYED TO MINIMIZE THE RISK OF PROBLEMS ARISING DURING CONSTRUCTION. STRUCTURAL OBSERVATION BY THE DESIGN PROFESSIONAL DOES NOT CONSTITUTE WARRANTY OR GUARANTEE OF ANY TYPE. IN ALL CASES, THE CONTRACTOR SHALL RETAIN RESPONSIBILITY FOR THE QUALITY OF WORK AND FOR ADHERENCE TO THE APPROVED PLANS AND SPECIFICATIONS.

ABBREVIATIONS

@	At	L	Angle
d	Penny (Nails)	LB.	Pound
Ø	Diameter	LL	Live Load
°	Degrees	LLH	Long Leg Horizontal
..#	Founds	LLV	Long Leg Vertical
#..	Number	LONGIT.	Longitudinal
		LT. WT.	Lightweight
(A)	Above		
A.B.	Anchor Bolt	MAX.	Maximum
ADD'L	Additional	MECH.	Mechanical
ALT.	Alternate	MEZZ.	Mezzanine
APPROX.	Approximate	MF	Moment Frame
ARCH.	Architect	MFR.	Manufacturer
A.S.D.	Allowable Stress Design	MIN.	Minimum
		MISC.	Miscellaneous
(B)	Below	MK.	Mark
B/	Bottom of		
BF	Braced Frame	(N)	Now
BLKG.	Blocking	N.	North
BLDG.	Building	N.S.	Near Side
BM.	Beam	NOM.	Nominal
BOT.	Bottom	NTS	Not to Scale
BRG.	Bearing		
BTWN.	Between	O.C.	On Center
		O.D.	Outside Diameter
CL or C	Centerline	O.F.	Outside Face
C	Camber	O.H.	Overhang
CIP	Cast in Place	OPNG.	Opening
C.J.	Construction Joint or Control Joint	OPP.	Opposite
C.J.P	Complete Joint Penetration		
CLG.	Clear	PAF	Powder Actuated Fastener
CLR.	Clear	PC	Precast
CMU	Concrete Masonry Unit	PERM.	Permanent
COL.	Column	PERP.	Perpendicular
CONC.	Concrete	FJP	Partial Joint Penetration
CONN.	Connections	PL or P	Plate
CONST.	Construction	PLF	Pounds per linear Foot
CONT.	Continuous	PLYMD	Plywood
CSK.	Countersink	PREFAB.	Prefabricated
		PSF	Pounds per Square Foot
DBA	Deformed Bar Anchor	PSI	Pounds per Square Inch
DEB.	Double	P.T. or PT	Post-Tensioning
DEG.	Degree	P/T	Pressure-Treated
DF	Doug Fir-Larch		
DIA.	Diameter	RAD.	Radius
DIAG.	Diagonal	REF.	Reference
DIAPH.	Diaphragm	REINF.	Reinforce or Reinforcement
DIM.	Dimension	REQD.	Required
DN.	Down	REV.	Revise
DO	Ditto	R.O.	Rough Opening
DTL.	Detail		
DTP	Double Top Plate	S.	South
DWG.	Drawing	SCH. or SCHED.	Schedule
		SECT.	Section
(E)	Existing	SHT.	Sheet
E.	East	SIM.	Similar
EA.	Each	SOG	Slab On Grade
E.F.	Each Face	SPEC.	Specification
EL.	Elevation	SQ.	Square
ELEV.	Elevator	SQ. FT.	Square Feet
EMBED.	Embedment Length	SQ. IN.	Square Inches)
ENGR.	Engineer	SFF	Spruce-Fir-Fir
EQ.	Equal	S.S.	Stainless Steel
E.N.	Each Way	STD.	Standard
EXP.	Expansion	STIFF.	Stiffener
EXT.	Exterior	STL.	Steel
		STR.	Structural
FDN.	Foundation	SUB.	Substitute
FIN.	Finish	SYM.	Symmetrical
FLR.	Floor		
FRP	Fiber Reinforced Polymer	T/	Top of
F.S.	Far Side	T&G	Top and Bottom
FT.	Foot or Feet	T&G	Tongue & Groove
FTG.	Footing	TEMP.	Temporary
		THRU	Through
GA.	Gauge	T.O.C.	Top of Concrete
GALV.	galvanized	T.O.S.	Top of Steel
GL	Glue Laminated	T.O.M.	Top of Wall
GWB	Gypsum Wall Board	TRANS.	Transverse
		TS	Tube Steel
HDG	Hot Dipped Galvanized	TYP.	Typical
HDR.	Header		
HF	Hem Fir	U.O.N.	Unless Otherwise Noted
HGR.	Hangar		
HORIZ.	Horizontal	VERT.	Vertical
HSS	Hollow Structural Section	VIF	Verify in Field
HT.	Height		
		W.	West
I.D.	Inside Diameter	W or w/	With
I.F.	Inside Face	W.H.S.	Welded Headed Stud
IN.	Inch	W/O	Without
INFO.	Information	W.P.	Work Point
INT.	Interior	W.T.S.	Welded Threaded Stud
		W/WF	Welded Wire Fabric
JT.	Joint		
		X SECT.	Cross Section
K	Kips	X-STR	Extra Strong
KSF	Kips per Square Foot	XX-STR	Double Extra Strong
KSI	Kips per Square Inch		

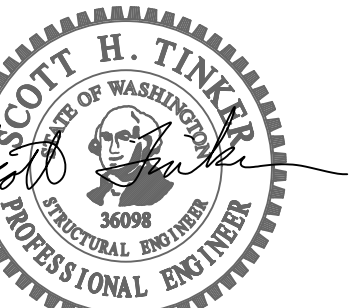


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Centers for Information Systems

SEAL:



PROJECT:

CENTERIS  
DATA CENTERS - TI

1023 39TH AVENUE  
SOUTHEAST  
PUYALLUP, WASHINGTON

APPROVAL:

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRCTI20241741

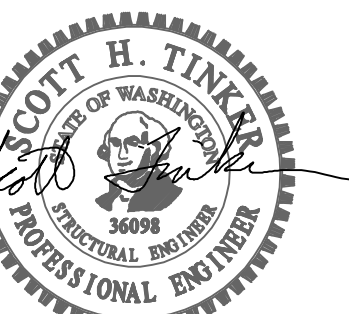

SOUTH YARD ANCHORAGE	10/23/24		
NO.	DESCRIPTION	DATE	BY
ISSUES: 0		REVISIONS: 1	
P.M.	SHT		
P.E.	TVM		
DRAWN BY: SC			
SCALE: AS SHOWN			
DATE: 10/23/24			
JOB NO. 23444.01			
SHEET TITLE:			

**GENERAL STRUCTURAL NOTES**

SHEET NO.

S1.1

SEAL:



PROJECT:  
**CENTERIS  
DATA CENTERS - TI**

1023 39TH AVENUE  
SOUTHEAST  
PUYALLUP, WASHINGTON

APPROVAL:

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

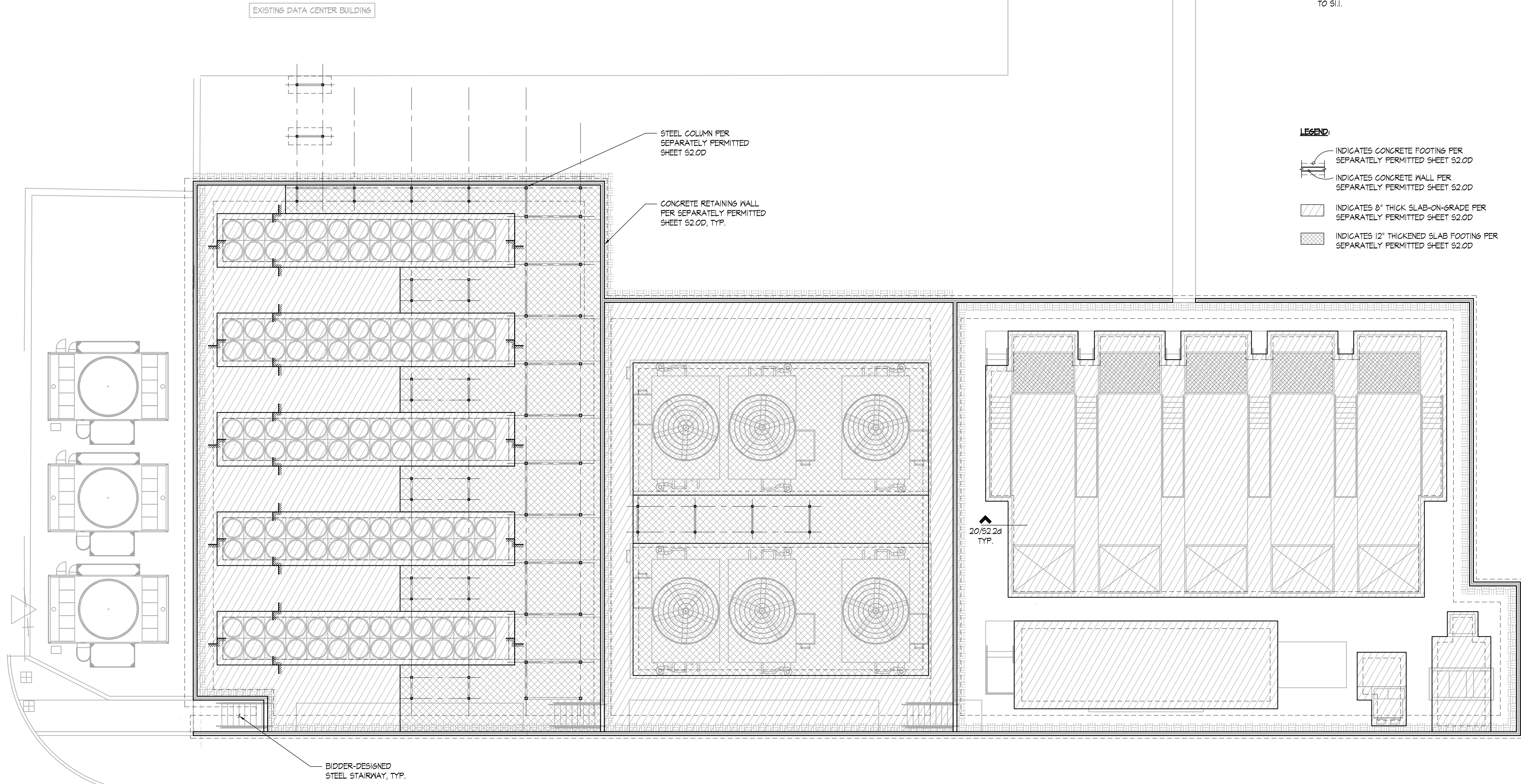
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**FOUNDATION PLAN NOTES:**

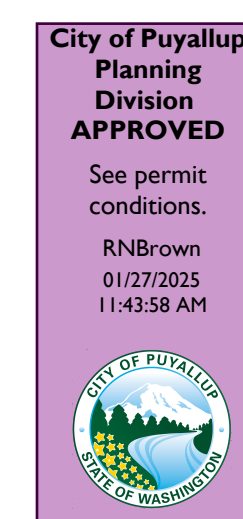
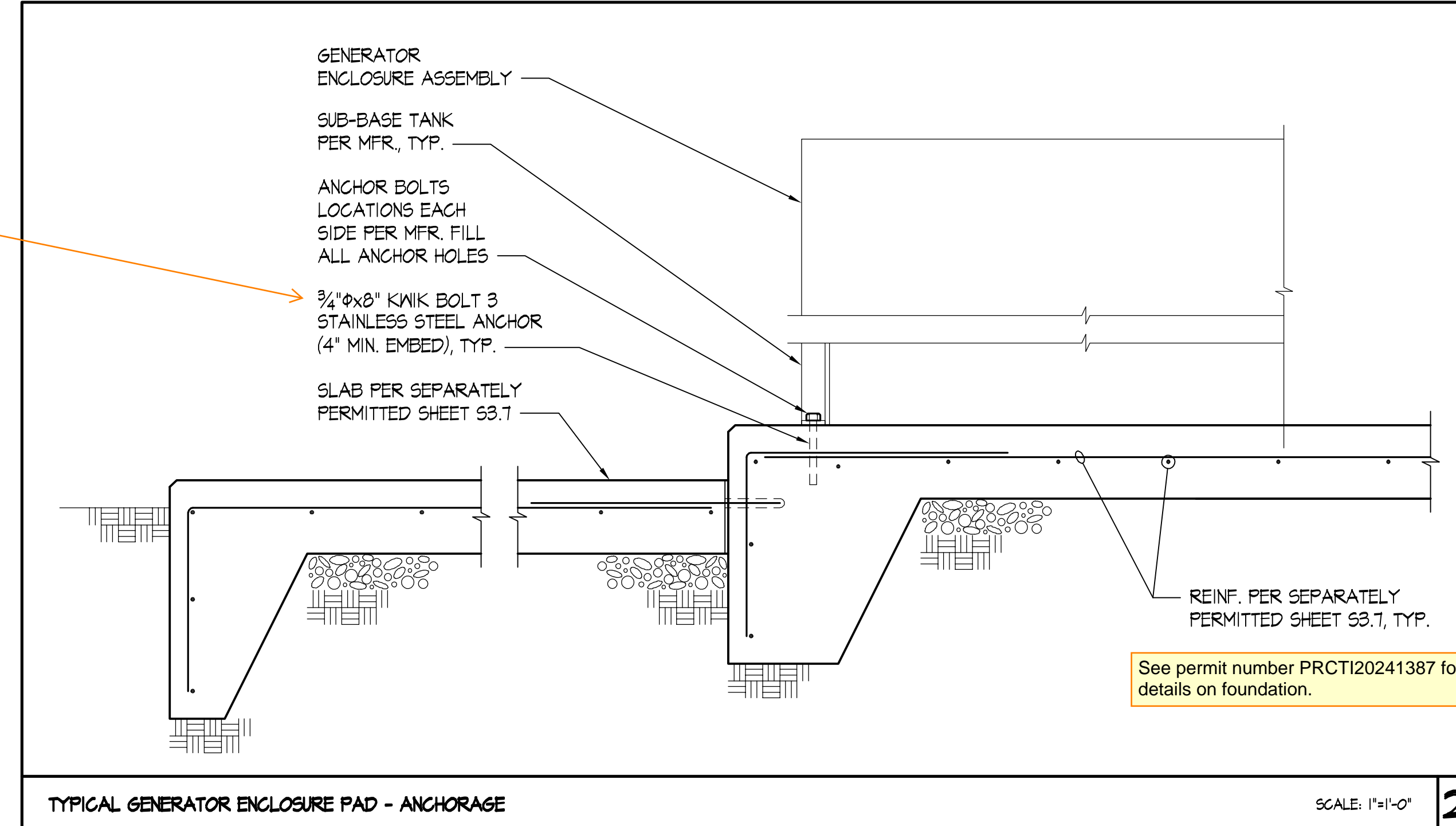
1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND MANUFACTURER'S DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. ALL EXISTING INFORMATION IS ASSUMED AND SHALL BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
3. FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS SEE SHEETS S1.0 TO S1.1.

**LEGEND:**

- INDICATES CONCRETE FOOTING PER SEPARATELY PERMITTED SHEET S2.0D
- INDICATES CONCRETE WALL PER SEPARATELY PERMITTED SHEET S2.0D
- INDICATES 8" THICK SLAB-ON-GRADE PER SEPARATELY PERMITTED SHEET S2.0D
- INDICATES 12" THICKENED SLAB FOOTING PER SEPARATELY PERMITTED SHEET S2.0D



Prior to installation:  
Review anchor product's ESR and install the product per the report. If special inspection(s) are required - the final special inspection report must be on site during City inspections.



**SOUTH YARD GENERATOR ANCHORAGE PLAN**  
SCALE: 1/8" = 1'-0"

NO.	DESCRIPTION	DATE	BY
	SOUTH YARD ANCHORAGE	10/23/24	

ISSUES: 0 REVISIONS: 1

P.M. SHT

P.E. TVM

DRAWN BY: SC

SCALE: AS SHOWN

DATE: 10/23/24

JOB NO. 23444.01

SHEET TITLE:

**SOUTH YARD  
GENERATOR  
ANCHORAGE PLAN**  
SHEET NO.

**S2.2D**