Permit Revision Submittal Requirements and Application

A Permit Revision is required when there are proposed changes to the project after the permit has been issued. This may arise due to discrepancies between the city-approved permit drawings and actual field conditions, or the customer has changed their mind about an aspect of the project. In all cases, a revision to the existing permit must be submitted, reviewed and approved.

Minimum Submittal Requirements (check all boxes and sign below):

- ☐ A copy of this application.
- ☐ One PDF copy of plans for electronic submittals or three copies for paper submittals.
- ☐ All plans must clearly reflect the proposed change(s). Changes must be bubbled.
- ☐ Drawings and calculations must be stamped and signed by the Architect and/or the Engineer of Record, if applicable.
- ☐ Project narrative for extensive revisions.
- ☐ One PDF copy of calculations and other supporting documents for electronic submittals or two copies for paper submittals.
- ☐ Copy of Inspector's correction notice, if the revision is due to an inspection correction. One PDF copy for electronic submittals and two copies for paper submittals.

Applicant Information:

Applicant Name Carter McBride

Street Address 6132 NE 112th Ave City/State/ZIP Portland, OR 97220

Email portlandpermits@tesla.com Phone 732-823-2104

Value of Proposed Revision No value change Issued Permit # 22-101076-RS

Job Site Address 3035 NW Spencer St City/State/ZIP Portland, OR 97229

Description of Revision

PV modules changed to Tesla T400H resulting in module layout change on roof and electrical diagram change. System size reduced to 10.8 kW.

Applicant Signature _____ Date 4/18/2022

Fees:

An invoice with permit fees will be sent to the applicant once minimum submittal requirements have been verified. Permit Revisions are subject to fees associated with plan review, processing and any increase in project value.

The Bureau of Development Services fee schedule is on the BDS web site: www.portlandoregon.gov/bds/article/102792

Helpful Information:

Bureau of Development Services |City of Portland, Oregon
1900 SW 4th Avenue, Portland, OR 97201
For Hours Call 503-823-7310 or visit www.portlandoregon.gov/bds

Important Telephone Numbers:

BDS main number	503-823-7300
DSC automated information line	503-823-7310
Building code information	503-823-1456
BDS 24-hour inspection request line	503-823-7000
Residential information for one- and two-family dwelling	503-823-7388
General Permit Processing and Fee Estimate info	503-823-7357
Zoning Information Line	503-823-7526
City of Portland TTY	503-823-6868

City of Portland
REVISED FOR CODE COMPLIANCE
Date: 05/14/22
Permit #: 22-101076 REV 01 RS

ABBREVIATIONS

A AMPERE AC ALTERNATING CURRENT BLDG BUILDING CONC CONCRETE DC DIRECT CURRENT EGC EQUIPMENT GROUNDING CONDUCTOR (E) EXISTING EMT ELECTRICAL METALLIC TUBING FSB FIRE SET-BACK GALV GALVANIZED GEC GROUNDING ELECTRODE CONDUCTOR GND GROUND HDG HOT DIPPED GALVANIZED I CURRENT Imp CURRENT AT MAX POWER Isc SHORT CIRCUIT CURRENT kVA KILOVOLT AMPERE kW KILOWATT LBW LOAD BEARING WALL MIN MINIMUM (N) NEW NEUT NEUTRAL NTS NOT TO SCALE OC ON CENTER PL PROPERTY LINE POI POINT OF INTERCONNECTION PV PHOTOVOLTAIC SCH SCHEDULE S STAINLESS STEEL STC STANDARD TESTING CONDITIONS TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT Vmp VOLTAGE AT MAX POWER Voc VOLTAGE AT OPEN CIRCUIT W WATT 3R NEMA 3R, RAINTIGHT

ELECTRICAL NOTES

1. THIS SYSTEM IS GRID-INTERTIED VIA A UL-LISTED POWER-CONDITIONING INVERTER.
2. A NATIONALLY - RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3.
3. WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A SIGN WILL BE PROVIDED WARNING OF THE HAZARDS PER ART. 690.17.
4. EACH UNGROUNDED CONDUCTOR OF THE MULTIWIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5.
5. CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B).
6. DC CONDUCTORS EITHER DO NOT ENTER BUILDING OR ARE RUN IN METALLIC RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER ART. 690.31(E).
7. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING.
8. MODULE FRAMES SHALL BE GROUNDED AT THE UL - LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE.
9. MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS.

JURISDICTION NOTES

22-101076 REV 01 RS

LICENSE

OR # 180498
RGC, CGC1

MODULE GROUNDING METHOD: ZEP SOLAR

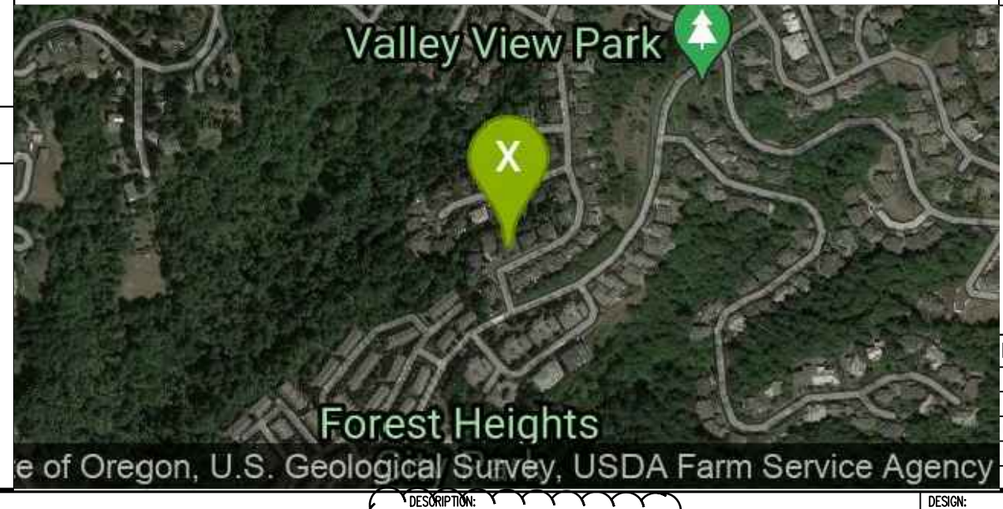
AHJ: Portland

UTILITY: Portland General Electric

GENERAL NOTES

1. ALL WORK TO BE DONE TO THE 2019 OSSC AND 2018 IBC.
2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE AS AMENDED BY THE OREGON ELECTRICAL SPECIALTY CODE.

VICINITY MAP



INDEX

REV	BY	DATE	COMMENTS
REV A	RE	1/06/2022	Revised formatting details
REV B	IFT	1/24/2022	Mp tags on site plan now showing MP tags on sidevies
REV C	RE	2/13/22	Updated FSB
REB D	RE	4/13/22	SWAPPED MODULES/UPDATED TIE-IN
*	*	*	*

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JOB NUMBER: JB-9725833 00

MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert

MODULES: (27) Tesla # T400H

INVERTER: Powerwall+ (240V) #1850000-00-C / PVI Assy. 1538000-25-F

CUSTOMER:
David Valdovinos
3035 NW Spencer St
Portland, OR 97229

15037039168

DESCRIPTION:
10.8 KW PV ARRAY
27 KWH ENERGY STORAGE SYSTEM

PAGE NAME: COVER SHEET

DESIGN: Rodrigo Elvira

SHEET: 1 REV: d DATE: 4/13/2022

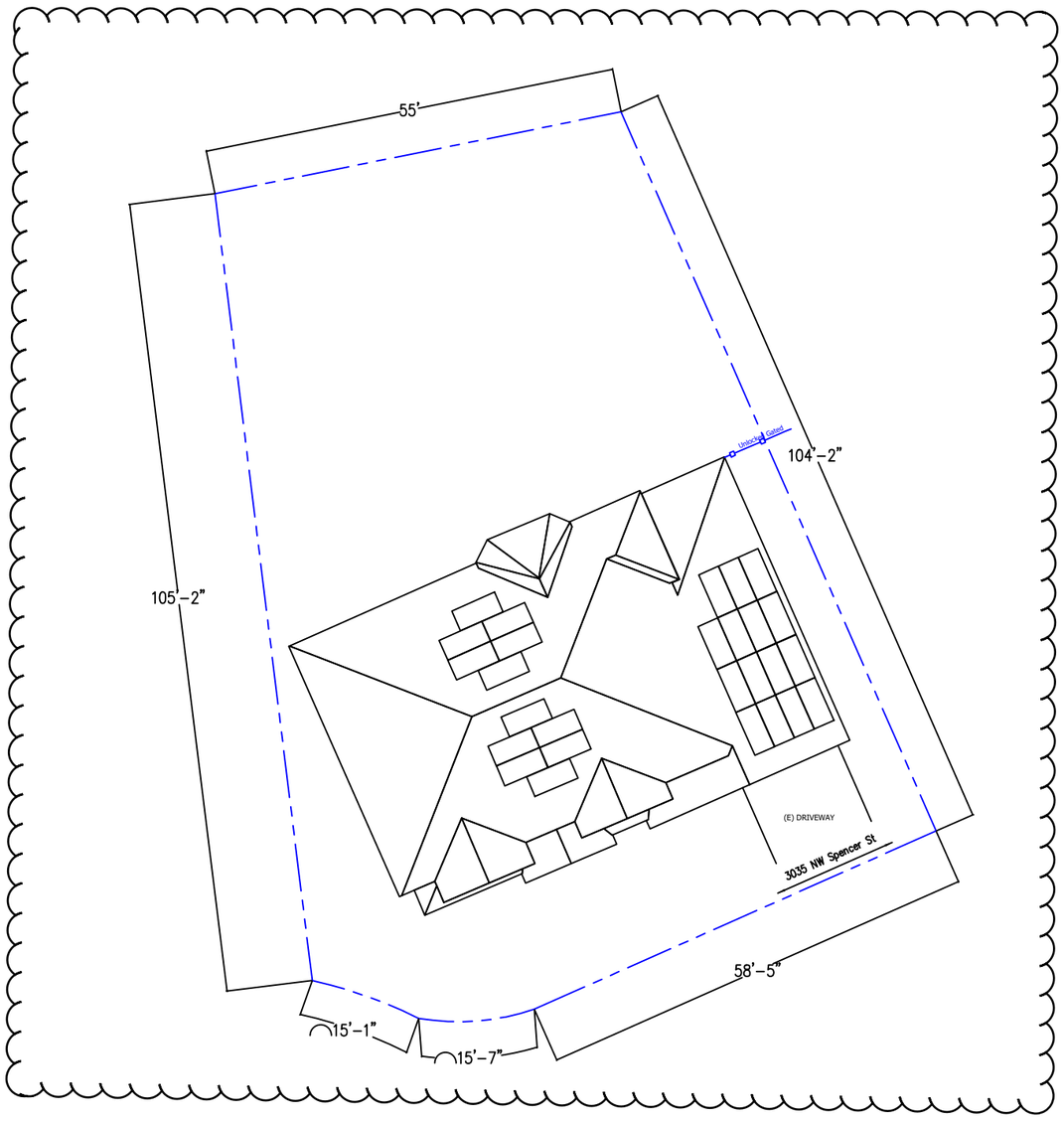
TESLA

City of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 05/24/22

Permit #: 22-101076-REV-01-RS



PROPERTY PLAN

Scale:1" = 20'-0"

0 20' 40'

N W E S

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27 KWH ENERGY STORAGE SYSTEM

PAGE NAME: PROPERTY PLAN

DESIGN: Rodrigo Elvira

SHEET: 2 REV: d DATE: 4/13/2022

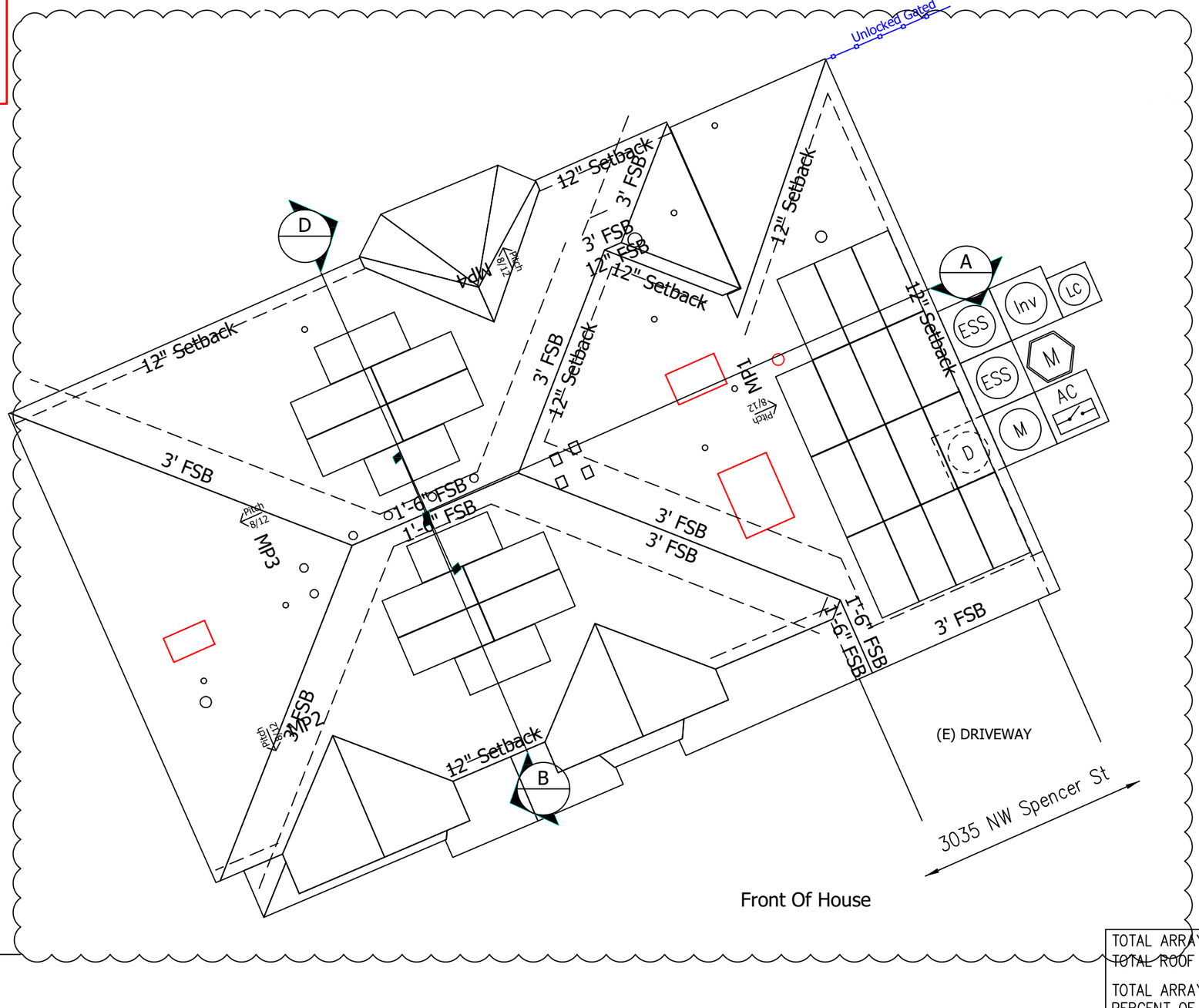
TESLA

City of Portland

REVISED FOR CODE COMPLIANCE

Date: 05/24/22

Permit #: 22-101076-REV-01-RS



MP1	PITCH: 34° (8:12) ARRAY PITCH: 34° (8:12) AZIMUTH: 66 ARRAY AZIMUTH: 66 MATERIAL: Comp Shingle STORY: 2 Stories
MP2	PITCH: 34° (8:12) ARRAY PITCH: 34° (8:12) AZIMUTH: 157 ARRAY AZIMUTH: 157 MATERIAL: Comp Shingle STORY: 2 Stories
MP3	PITCH: 34° (8:12) ARRAY PITCH: 34° (8:12) AZIMUTH: 246 ARRAY AZIMUTH: 246 MATERIAL: Comp Shingle STORY: 2 Stories
MP4	PITCH: 34° (8:12) ARRAY PITCH: 34° (8:12) AZIMUTH: 336 ARRAY AZIMUTH: 336 MATERIAL: Comp Shingle STORY: 2 Stories

LEGEND

- (M) (E) UTILITY METER & WARNING LABEL
- (Inv) INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- (RELAY) AUTOMATIC RELAY
- (DC) DC DISCONNECT & WARNING LABELS
- (AC) AC DISCONNECT & WARNING LABELS
- (B) DC JUNCTION/COMBINER BOX & LABELS
- (ESS) ENERGY STORAGE SYSTEM FOR STAND ALONE OPERATION
- (D) DISTRIBUTION PANEL & LABELS
- (LC) LOAD CENTER & WARNING LABELS
- (M) DEDICATED PV SYSTEM METER
- (RSD) RAPID SHUTDOWN
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT IS DASHED

TOTAL ARRAY AREA (SF): 585
TOTAL ROOF AREA (SF): 3132

TOTAL ARRAY AREA IS ≈ 18.69
PERCENT OF TOTAL ROOF AREA

SITE PLAN

Scale: 3/32" = 1'

0 1' 10' 21'

N W E S

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MODULES: (27) Tesla # T400H

INVERTER: Powerwall+ [240V] #1850000–00–C / PVI Assy. 1538000–25–F

CUSTOMER:
David Valdovinos
3035 NW Spencer St
Portland, OR 97229

15037039168

DESCRIPTION:
10.8 KW PV ARRAY
27 KWH ENERGY STORAGE SYSTEM

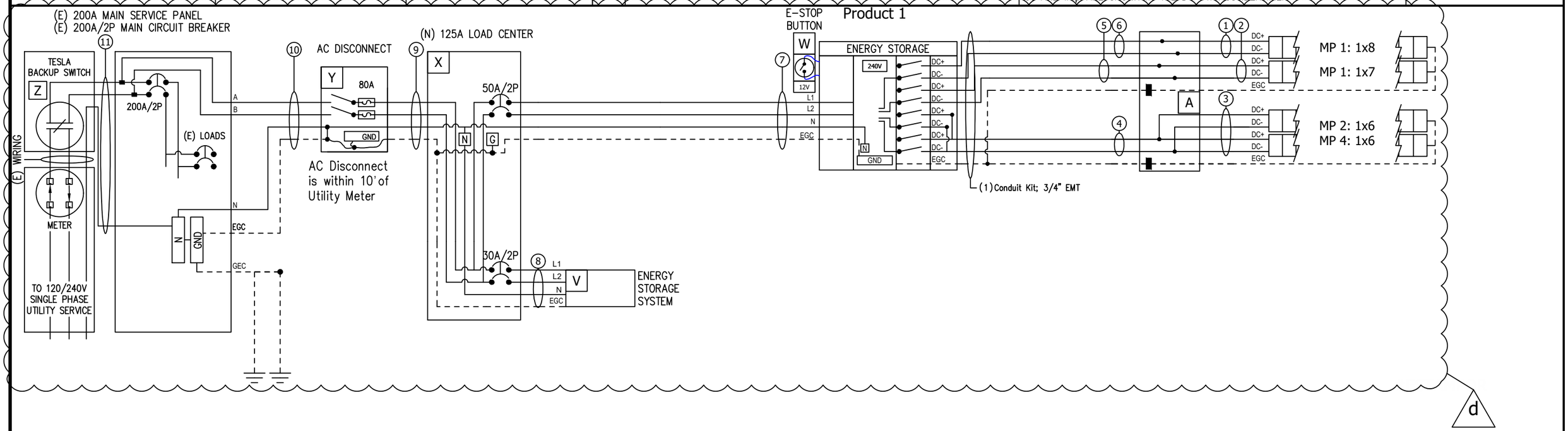
PAGE NAME: SITE PLAN

DESIGN: Rodrigo Elvira

SHEET: 3 REV: d DATE: 4/13/2022

TESLA

MAIN PANEL SPECS	GENERAL NOTES	PRODUCT SPECS	MODULE SPECS	LICENSE
Panel Number: Meter Number: 24 314 872 Underground Service Entrance	Inv 1: DC Ungrounded	1 – (1) Powerwall+ [240V] #1850000-00-C / PVI Assy. 1538000-25-F 2 3	– (27) Tesla # T400H PV Module, 400W, 371.5 PTC, 40MM, Black Frame, MC4/MC4-EVO2, ZEP, 1000V Voc: 45.3 Vpmax: 37.13 Isc AND Imp ARE SHOWN IN THE DC STRINGS IDENTIFIER	OR # 180498 RGC, CGC1



Voc* = MAX VOC AT MIN TEMP

POI
- (2) Ground Rod 5/8" x 8', Copper
- (2) ILSCO # IPC 4/0-2/0 Insulation Piercing Connector; Main 4/0-2, Tap 2/0-6

Z
- (1) 1624171-00-G Backup Switch
- (1) Eaton 204 MS68 B-Line Meter Socket, 200A, AW Hub top, Overhead, 4 jaws, Ring type

Y
- (1) CUTLER-HAMMER # DS36FK Class R Fuse Kit
- (2) FERRAZ SHAWMUT # TR80R Fuse; 80A, 250V, Class RK5
- (1) CUTLER-HAMMER # DG100NB Ground/Neutral Kit; 60-100A, General Duty (DG)
- (1) CUTLER-HAMMER # DG223NRB Disconnect; 100A, 240Vac, Fusible, NEMA 3R

X
- (1) SQUARE D #HOM1224L125PRB Load Center;125A,Convertible,NEMA3R,12sp/24Cir,120v/240v,10kAIC,Surface
- (1) SQUARE D # HOM250 Breaker; 50A/2P, 2 Spaces
- (1) SQUARE D # HOM230 Breaker; 30A/2P, 2 Spaces

W
- (1) UL 508 Emergency Stop Device – NEMA 4X

AC

7	10ft	(1) AWG #8, THWN-2, Black (1) AWG #8, THWN-2, Red (1) AWG #10, THWN-2, Green EGC (1) Conduit Kit; 3/4" EMT	(1) AWG #8, THWN-2, White	Vmp = 240 VAC Imp = 32 AAC
8	5ft	(1) AWG #10, THWN-2, Black (1) AWG #10, THWN-2, Red (1) AWG #10, THWN-2, White (1) AWG #10, THWN-2, Green (1) Conduit Kit; 3/4" EMT		
9	2ft	(1) AWG #4, THWN-2, Black (1) AWG #4, THWN-2, Red (1) AWG #4, THWN-2, White (1) AWG #8, THWN-2, Green EGC (1) Conduit Kit; 1-1/4" EMT		
10	10ft	(1) AWG #4, THWN-2, Black (1) AWG #4, THWN-2, Red (1) AWG #4, THWN-2, White (1) AWG #8, THWN-2, Green EGC (1) Conduit Kit; 1" EMT		
11	10ft	(3) AWG #3/0, THWN-2, Black (1) AWG #6, THWN-2, Green EGC (1) Conduit 2" PVC, Schedule 80		

V
- (1) 3012170-10-B ASY,AC POWERWALL2.1,5KW,13.5KWH,M48

GD
- Please see MCI wiring detail page for more information

DC

A
- (1) Tesla 4J 4-STRING JUNCTION BOX UNFUSED, GROUNDED, Black, Diag DIN Rail with Bracket/ Cord Grip

PV
- (10) Tesla MCI, 650V, 12A

4	50ft	(1) AWG #8, THWN-2, Black (1) AWG #8, THWN-2, Red (1) AWG #10, THHN/THWN-2, Green EGC (1) Conduit Kit; 3/4" EMT	Voc* = 299.93 VDC Isc = 22.28 ADC Vmp = 222.78 VDC Imp = 21.54 ADC	
5	50ft	(1) AWG #10, THWN-2, Black (1) AWG #10, THWN-2, Red (1) AWG #10, THHN/THWN-2, Green EGC (1) Conduit Kit; 3/4" EMT	Voc* = 349.92 VDC Isc = 11.14 ADC Vmp = 259.91 VDC Imp = 10.77 ADC	
6	50ft	(1) AWG #10, THWN-2, Black (1) AWG #10, THWN-2, Red (1) AWG #10, THHN/THWN-2, Green EGC (1) Conduit Kit; 3/4" EMT	Voc* = 399.91 VDC Isc = 11.14 ADC Vmp = 297.04 VDC Imp = 10.77 ADC	
1	20ft	(2) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC	Voc* = 399.91 VDC Isc = 11.14 ADC Vmp = 297.04 VDC Imp = 10.77 ADC	
2	20ft	(2) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC	Voc* = 349.92 VDC Isc = 11.14 ADC Vmp = 259.91 VDC Imp = 10.77 ADC	
3	15ft	(4) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC	Voc* = 299.93 VDC Isc = 11.14 ADC Vmp = 222.78 VDC Imp = 10.77 ADC	

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MODULES: (27) Tesla # T400H

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CUSTOMER:
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15037039168

DESCRIPTION:
10.8 KW PV ARRAY
27 KWH ENERGY STORAGE SYSTEM

PAGE NAME: THREE LINE DIAGRAM

DESIGN: Rodrigo Elvira

SHEET: 7 REV: d DATE: 4/13/2022

TESLA

ELECTRICAL CALCULATIONS

Module:	27	Tesla:T400H	371.5	Inv Power	WPTC
Inverter 1:	1	Tesla Powerwall+ (Controller)	0.98	7600	9779.74
Module:		Tesla:T400H	371.5		
Inverter 2:					
Module:		Tesla:T400H	371.5		
Inverter 3:					
Module:		Tesla:T400H	371.5		
Inverter 4:					

Total: 27 Modules

Total Inv Pwr: 7600 | 9779.74 PTC

Total STC: 10800

Photovoltaic Module Electrical Specifications:

Voc:	45.3	V
Vmp:	37.13	V
Isc:	11.14	A
Imp:	10.77	A
Tvoc:	-0.12	V/deg C
Tisc:	4.46	mA/deg C

	deg F	deg C
Record Low Temp:	8	-13.33
Max Average Hi Temp:	81	27.22
Record Hi Temp:	108	42.22

Voltage Drop Calculations Version 5_8.0

Vdrop = (Imp) * (2 * Length) * (Resistance) / (Vmp)

	Imp (A)	Max. Length (ft)	Wire				
String:	10.77	20	AWG #10	at Max Ave	Hi: 81	deg F	
Vdrop =	(10.77	40	0.00124 Ohms) /	259.45	0.21		
Branch:	10.77	50	AWG #10	at Max Ave	Hi: 81	deg F	
Vdrop =	(10.77	100	0.00124 Ohms) /	297.04	0.51		
			Total voltage drop in DC conductors =		0.72		
Inverter:	32	10	AWG #8	at 240V			
Vdrop =	(32	20	0.00078 Ohms) /	240 V	0.07		
Combined:				at 240V			
Vdrop =			Ohms) /	240 V			

Total voltage drop in AC conductors = 0.07

Total voltage drop in AC and DC conductors =

String Type A and 2 Combined Strings Type A

Tesla Powerwall+ (Controller)

8 Tesla:T400H

Voc=	362.4
Vmp=	297.04
Isc=	11.14
Imp=	10.77
Icont=	13.92

Art 690.8(A)(1)

Voc Correction Method:	Manuf TVoc Data
Voc Correction Factor:	
Inverter Min Vdc Input:	57
Min Vmp at Max Temp:	259.45
Max Voc at Min Temp:	399.91
Inverter Max Vdc Input:	600
Max String Size:	12
1-way wire length:	50

Branch Circuit Type A — 1 way wire length: 50

	2 strings per branch 1	1 strings per branch 2
	6 modules per series string	8 modules per series string
Voc=	271.8 V	362.4 V
Vmp=	222.78 V	297.04 V
Isc=	22.28 A	11.14 A
Imp=	21.54 A	10.77 A
Icont=	27.85 A	13.92 A

Art 690.8(A)(1)

1.a Conductor: AWG #10 PV Wire

Icont * 1.25 = (Amps)	17.41
30 deg C ampacity =	40

1.b

Icont= (Amps)	13.92
Start ampacity	40
Temperature derate (%=F)	0.82
Conduit fill derate (%=#)	1
Derated ampacity	32.8

1.c

Icont * 1.25 = (Amps)	17.41
Ampacity	40

1.d

Icont * 1.25 = (Amps)	17.41
OCP Size =	20

2.a Conductor 1: AWG #8 Conductor 2: AWG #10

	Conductor 1	Conductor 2
Icont * 1.25 = (Amps)	34.81	17.41
30 deg C ampacity =	55	40

2.b

Icont= (Amps)	27.85	13.92
Start ampacity	55	40
Temperature derate (%=F)	0.82	0.82
Conduit fill derate (%=#)	0.8	0.8
Derated ampacity	36.08	26.24

2.c

	Term 1	Term 2
Temp table	90 °C:Table 310.16(B)(16)	90 °C:Table 310.15(B)(16)
Icont*1.25= (Amps)	34.81	17.41
Ampacity	55	40

Inverter Type A Output

Tesla Powerwall+ (Controller) — 1 way wire length: 10 ft

Icont = 32 A — Art 690.8(A)(1)

3.a

Icont * 1.25 = (Amps)	40	Art 690.8(B)(1)
OCP Size =	40	Art 240.6(A)

3.b Conductor: AWG #8 — THWN-2 at 90 deg C: Table 310.16

Icont * 1.25 = (Amps)	40
30 deg C ampacity =	55

3.c

Icont = (Amps)	32
Start ampacity	55
Temperature derate (%=F)	0.91
Conduit fill derate (%=#)	1
Derated ampacity	50.05

3.d

Icont * 1.25 = (Amps)	40
Ampacity	50

2.d OCP Size = 35 | 20

Combined Inverter Output

Service Voltage=

Total Inverter Power= — 1 way wire length= 10

Icont = # of inverters*max inverter current — Art 690.8(A)(1)

Icont = (Amps)

4.a Icont*1.25 = (Amps) 40 — Art 690.8(B)(1)

OCP size = 40 — Art 240.6(A)

4.b Conductor: AWG #8 — THWN-2 at 90 deg C: Table 310.16

Icont * 1.25 = (Amps)	40
30 deg C ampacity =	55

4.c

Icont = (Amps)	32
Start ampacity	55
Temperature derate (%=F)	0.91
Conduit fill derate (%=#)	1
Derated ampacity	50.05

4.d

Icont * 1.25 = (Amps)	40
Ampacity	50

d

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PAGE NAME: ELECTRICAL CALCULATIONS

DESIGN: Rodrigo Elvira

SHEET: 8 REV: d DATE: 4/13/2022

TESLA

CITY OF PORTLAND, OREGON
BUREAU OF DEVELOPMENT SERVICES
www.portlandoregon.gov/bds

Request an inspection call: 503-823-7000 for automated inspection request line. **TTY:** 503-823-6868

Residential Inspection Record Card

DO NOT POUR ANY CONCRETE UNTIL THE NEEDED INSPECTIONS BELOW HAVE BEEN SIGNED

Building	IVR#	App by	Date	Inspector's Notes	App By	Date	Plbg/Elec/Mech/Spec	IVR#
Tree Preservation	507						Grounding Electrode	227
Erosion Control	200						Radon Mitigation	238
Setbacks	215						Waterproofing	245
Footings	220						Reinforcing/Masonry	250
Foundation Wall	225						Underslab Plumbing	305
Reinforcing/Concrete	230						Oil Tank Pad	670
Concrete Slab	235						Electrical Temp. Service	115
BES Storm Eval	487							

For Demolition Permits - below inspections must be signed before Demo Permit can be Finaled

Demolition	288						Decomm. Septic Sys.	842
Sewer Cap	360						Other	295

POST & BEAM - Do not install sub floor until the needed inspections have been Approved and Signed

Post & Beam Struct.	240						Post & Beam Plbg.	300
Other	295						Post & Beam Mec.	600

Rough Inspections must be inspected and approved prior to Framing Inspection requested

Interim EC	205						Perm. Electrical Service	120
Shearwall	260						Rough Electrical	105
Firewall	265						Rough Plumbing	310
Fire Sprinklers	320						Shower Pan	315
Framing	270			☐ M.C.			Gas Line	605
Fireplace	255						Green Tag	615
Roofing	285						Rough Mech.	620

Insulation - Do not cover until Insulation is Approved and Signed

Insulation	280							

Ground Utilities

Sanitary Sewer	350						Storm Sewer	355
Water Service	345						Rain Drains	365
Backflow Device	335						Other	295

Final Inspections - Have all other Final Inspections approved and signed prior to requesting 999

Permanent EC	210						Mechanical Final	699
Electrical Final	199						Grading Final	990
Structural Final	299			☐ H.E.L			Final Permit	999
Plumbing Final	399							

☐ **Okay to Occupy** ☐ **Do Not Occupy until the needed inspections above have been approved and signed**

CITY OF PORTLAND, OREGON
BUREAU OF DEVELOPMENT SERVICES
www.portlandoregon.gov/bds

POST IN CLEAR VIEW AND IN ACCESSIBLE LOCATION

Request an inspection call: 503-823-7000 for automated inspection request line. **TTY:** 503-823-6868

IVR #:
4806885

Address:
3035 NW SPENCER ST , PORTLAND, Oregon, 97229

Notes:

Development Services Approval:

For a **Stormwater Treatment Facility** inspection call 503-823-7761 or use IVR # 487.

Contact Us:
1900 SW 4th Avenue
Portland, OR 97201

Phone: 503-823-7300
TTY: 503-823-6868

www.portlandoregon.gov/bds

Residential Inspections: 503-823-7388

Urban Forestry: 503-823-8733

Permitting Services: 503-823-7357

Planning and Zoning: 503-823-7526

Mechanical, Electrical, Plumbing
Sign Permits: 503-823-7363

Permit Status via voicemail: 503-823-7000 (4)

Work related to this Building Permit may be subject to regulations governing the removal, handling, and/or disposal of asbestos and/or lead-based paint. For Asbestos concerns: Contact DEQ: **1-888-997-7888;** Lead-base paint concerns: Contact Oregon Health Authority: **971-673-0440**.

BEFORE YOU DIG
ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. Call 1-800-332-2344 for locates.

Homeowner:
This is your Record of Permits and Inspections and should be kept with your permanent records.

This permit will expire if 180 days pass without an approved inspection. A permit can be extended one time only. Call for questions 503-823-7388.

If Special Inspections (i.e. adhesive anchors, soils, concrete construction) are required, a Special Inspection Final Summary Report must be submitted and approved prior to requesting a Final Permit Inspection #999.

To help ensure equal access to City programs, services and activities, the City of Portland will provide translation, reasonably modify policies/procedures and provide auxiliary aids/services/alternative formats to persons with disabilities. For accommodations, translations, complaints, and information, call 503-823-7300, TTY 503-823-6868, use Oregon Relay Service: 711, come to 1900 SW 4th Ave, 5th Floor, Portland, OR 97201, or email bds@portlandoregon.gov.

City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 | 503-823-7300 | www.portlandoregon.gov/bds

Subcontractor Permit Information Process

A Message to the Home Owner and General Contractor about Trade Work Associated with this Project:

As of February 1, 2016 if residential building permit applicants do not have completed/signed trade permit applications (mechanical, electrical, plumbing) for sub-contractors when submitting their building permit application, the trade work will not be included under that permit number and is not eligible to be added to the permit at a later date. The required trade permits must be applied for separately when sub-contractors are hired.

If this is the case for your project BDS recommends you use the space below to record the trade permit number(s) obtained in association with the project. You may also show this card to the BDS inspector who comes to inspect these trade permits and request they note on this record inspection results.

Permit Number	Issued Date	Approved by (Inspector name & date)	Notes

This record of permits and inspection should be kept with your permanent records.

Instructions about the following are available at www.portlandoregon.gov/bds/67391

1. How to request an inspection using the (IVR) system.

2. Accessing and viewing daily on-line Residential Inspection Route slips.

City of Portland, Oregon
Bureau of Development Services
www.portlandoregon.gov/bds

Inspection Request (IVR) Pocket Reference

Dial: 503-823-7000 **TTY:** 503-823-6868 **Press:**

1	Schedule an Inspection
2	Cancel or Reschedule an Inspection
(**1 & 2**	Don't hang up without a confirmation number)
3	Obtain Inspection Results
4	Obtain Plan Review Status via FAX
5	Obtain Fax Back Documents
6	Obtain a List of Scheduled Inspections by IVR Number
0	Speak with Inspection Section regarding your inspection or to obtain your IVR number
*	Listen to General Information
#	Hang Up

If tree preservation is required on your approved plans, approval of inspection #507 is required before requesting further inspections.

Inspection #200 must be in place prior to any ground disturbance activities, and must be requested first when requesting inspection for setbacks, footings and foundation inspections.

Inspection #210 must be approved before permit final approval.

Building
507 Tree Preservation
200 Pre-Construction Erosion Control
205 Interim Erosion Control
210 Permanent Erosion Control Measures
215 Setbacks
220 Footings
225 Foundation
226 Foundation Drain
227 Grounding Electrode (RS only)
230 Concrete/Reinforcing
235 Slab/Flatwork
238 Radon Mitigation
240 Underfloor/Post & Beam
245 Waterproofing (RS Only)
250 Masonry/Reinforcing
255 Masonry Fireplace
260 Shearwalls (use 270 for CO permits)
261 Reinspection Shearwall (RS Only)
265 Firewall Nailing (use 275 for CO permits)
270 Framing
271 Reinspection Framing (CO & MG Only)
275 Wallboard Attachment
277 Ceiling Grid
280 Insulation/Vapor Barrier
285 Roofing
288 Demolition
290 Temporary Occupancy
295 Other/Consultation
299 Final - Structural (RS Only)
487 BES On-Site Stormwater Facility Eval
510 Tree Preservation/Env Zone
990 Final - Grading (RS Only)
992 Final - Subsurface (RS Only)
999 Final Permits (CO, RS - to final job)

Development Review
507 Tree Preservation
200 Pre-Construction Erosion Control
210 Permanent EC Measures
487 BES ON-Site Stormwater Facility Eval
555 Code Compliance Inspection
842 Decommission System (Pumped & Filled)
999 Final Permit

Electrical
105 Rough-in - Electrical
107 Cover Electric In-Floor Heat
110 Underground-Electrical

Electrical, continued
111 Electrical Service Reconnect
115 Temporary Electrical Service
120 Permanent Electrical Service
125 Low Voltage/Alarm
135 Hot Tub/Spa/Swimming Pool
140 Industrial Plant
145 Circuits/Feeders
150 Generator/Transfer Switch
155 Other/Consultation - Electrical
199 Final - Electrical

Mechanical
600 Underfloor/Post & Beam, Mechanical
605 New Gas Piping/Pressure Test
610 Extend Gas Piping/Pressure Test
615 Gas Line Tag
617 Hydronic Piping (Closed/Open Loop)
620 Rough-in Mechanical
625 Wood Stove/Pellet Stove/Decorative Appl
630 AC/Furnace/Heat Pump/HVAC
635 Kitchen Exhaust/Commercial Hood
640 Oil Tank
645 Vent/Chimney Liner
650 Other/Consultation- Mechanical
670 Oil Tank Pad
699 Final - Mechanical

Plumbing (RS and PT Permits only)
300 Post and Beam - Plumbing
305 Underslab/Ground Work - Plumbing
310 Rough-In/Top Out Plumbing
312 Hydronic Piping (Open Loop Only)
315 Shower Pan/Bathtub Test
320 Fire Sprinklers
325 Fixture Cap
330 Drain Reversal
335 Backflow Device (Water Supply)
337 Backwater Valve (Drainage)
340 Water Heater
345 Water Service
350 Sanitary Sewer
355 Storm Sewer
360 Sewer Cap
365 Rain Drains
370 Catch Basin
375 Manhole
380 Detention Facility
390 Dry Well
392 Sewer Connection
395 Soakage Trench
396 Medical Gas/Vacuum System
397 Other/Consultation-Plbg
399 Final - Plumbing

Sanitation Permits

On-Site Sewage Disposal Permit
800 Initial Advanced Treatment Technology
802 Secondary Adv. Treatment Technology
804 Final Advanced Treatment Technology
806 Alternative System
808 Initial Capping Fill
810 Secondary Capping Fill
812 Final Capping Fill
814 Drainfield
816 Gray Water Sump
818 Initial Holding Tank
820 Secondary Holding Tank
822 Final Holding Tank
824 Pressure Distribution
826 Pumping System
828 Redundant System
830 Initial Sand Filter
832 Secondary Sand Filter
834 Final Sand Filter
836 Septic Tank
838 Steep Slope System/Disposal
840 Tile Dewatering
842 Decommission System (Pumped & Filled)
999 Final Permit

On-Site Sewage Evaluation/Services
842 Decommission System (Pumped & Filled)
844 Sep. Sys. Pumped/Drain Lines Staked
846 Septic System Staked
848 Test Pits Dug and Flagged

Sewer Permits (UC)
350 Sanitary Sewer
842 Decommission System (pumped & filled)
399 Final Plumbing

Site Development Permits
507 Tree Preservation
200 Pre-Construction Erosion Control
205 Interim Erosion Control Inspection
210 Permanent Erosion Control Inspections
487 BES On-Site Stormwater Facility Eval
500 Site Development Inspection
510 Tree Preservation/Env Zone
512 Clearing Limits
514 Landscape Mitigation/Env. Zone Planting
516 Pedestrian Pathway/Trail
518 Retaining Wall Footing
520 Retaining Wall Forms/Reinforcing
522 Site Grading
524 Stormwater Culvert/Riprap
526 Trench Backfill Compaction
530 Private Street Curb Setback
532 Private Street Subgrade
534 Private Street Base Rock
536 Private Street Base Lift
538 Private Street Top Lift
540 Private Street Sidewalk/ADA Ramps
542 Private Street Signage
544 Street Light Base
546 Street Light Pole
550 Private Street Final Inspection
990 Final - Grading
999 Final Permit

Manufactured Homes
120 Permanent Electrical Service
200 Pre-Construction Erosion Control
210 Permanent Erosion Control measures
227 Grounding Electrode
337 Backwater Valve (Drainage)
487 BES On-Site Stormwater Facility Eval
605 New Gas Piping/Pressure Test
625 Wood Stove/Pellet Stove/Decorative Appl
630 AC/Furnace/Heat Pump/HVAC
700 Footing Form/Okay to Pour
706 Foundation Blocking
708 Tie Downs
710 Sewer Connection Outside
714 Water Service
716 Electrical Feeder
722 Heating Duct
728 Enclose/Install Perimeter Foundation
730 Perimeter Foundation
740 Rain Drain System
742 Stormwater Disposal
756 Garage/Carport Final
299 Final - Building
199 Final - Electrical
699 Final - Mechanical
399 Final - Plumbing
999 Final Permit

Zoning (ZP Permits)
487 BES On-Site Stormwater Facility Eval
555 Final - Code Compliance Inspection

Sign Permits
400 Sign Footings
405 Electrical Service - Sign
410 Sign Structure
999 Final Permit

Miscellaneous
440 Adult Care License

insp_ivr_pktcust 12/07/15

Instructions available at: www.portlandoregon.gov/bds/article/81111