# TACOMA POWER ELECTRIC VEHICLE CHARGERS TACOMA, WASHINGTON

DETAIL NOT TO SCALE



#### LOCATION MAP



### **PROJECT INFORMATION**

THIS PROJECT INCLUDES INSTALLING ELECTRICAL DISTRIBUTION EQUIPMENT AND ASSOCIATED INFRASTRUCTURE TO ENERGIZE EV CHARGERS AT SEVEN (7) LOCATIONS IN DOWNTOWN TACOMA.

### SITES

- (1) MUNICIPAL PARKING LOT 728 MARKET ST
- (2) TACOMA PARKING GARAGE 110 SOUTH 10TH ST
- (3) PARK PLAZA GARAGE 923 COMMERCE ST
- (4) 14TH ST LOT **1401 PACIFIC AVENUE**
- (5) MUSEUM OF GLASS GARAGE 1801 DOCK ST
- (6) CONVENTION CENTER GARAGE 1500 COMMERCE ST
- (7) TACOMA DOME, LOT A 2727 EAST D STREET

#### APPLICABLE CODES

ALL WORK SHALL CONFORM TO ALL PERTINENT CODES, REGULATIONS, LAWS, AND ORDINANCES AS REQUIRED BY THE STATE OF WASHINGTON.

2022 TACOMA MUNICIPAL CODE 2022 NATIONAL ELECTRICAL CODE 2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL FIRE CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL EXISTING BUILDING CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.



- 2018 WASHINGTON STATE ENERGY CODE (WAC 51-11C)

			AIC	AMPERE INTERRUPTING CAP
		(2) CHARGERS ON PEDESTAL	ALT	ALTERNATIVE
			CDF	CONTROLLED DENSITY FILL
0		(1) WALL MOUNT CHARGER	CU	COPPER
			EV	ELECTRIC VEHICLE
	_	CONDUIT	MCB	MAIN CIRCUIT BREAKER
	$\bigcirc$		MLO	MAIN LUGS ONLY
	<u>(A)</u>	DETAIL DESIGNATOR	NM	NON-METALLIC
-	511#		NTS	NOT TO SCALE
14		DISCONNECT SWITCH	PH	PHASE
			PVC	POLYVINYL CHLORIDE
J		JUNCTION BOX	RGS	RIGID GALVANIZED STEEL
			SERV	SERVICE
	_	UNDERGROUND CONDUIT	SP	SPACE
$\wedge$			SWBD	SWITCHBOARD
X		WIRE NOTE	TPU	TACOMA PUBLIC UTILITY
$\frown$			V	VOLTS
$\langle x \rangle$		CONSTRUCTION NOTE		
		GROUND WELL		
$\sim$				

**ABBREVIATIONS** 

#### GENERAL NOTES

8

- THE PLANS DO NOT SHOW ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL INVESTIGATE UTILITIES PRIOR TO ANY FOUNDATION EXCAVATION AND 1 ANY EXISTING UTILITIES. ALL EXISTING UTILITY INFRASTRUCTURE TO BE PROTECTED AT ALL TIMES THROUGHOUT CONSTRUCTION.
- RESTORE ALL IMPACTED AREAS TO ORIGINAL CONDITIONS INCLUDING BUT NOT LIMITED TO RETAINING WALL, LANDSCAPING, PAVEMENT, CONCRETE, BACKFILL, 2. CURB AND GUTTER.
- 3. OF THE MENTIONED EQUIPMENT.
- UNFUSED DISCONNECTS SHALL BE HEAVY DUTY TYPE, HORSEPOWER RATED WITH INTERLOCKING COVER, APPROPRIATELY NEMA RATED FOR THE LOCATION 4. SIEMENS, GE, EATON, OR APPROVED EQUAL.
- PANELBOARDS SHALL BE HEAVY DUTY, COPPER BUS, CONTINUOUS DUTY WITH SHORT CIRCUIT CURRENT RATING (SCCR) PER TACOMA POWER STANDARDS 5. C-SV-4000. CIRCUIT BREAKERS SHALL COMPLY WITH WSDOT 2023 STANDARD SPECIFICATION 9-29.24. ENCLOSURE CONSTRUCTION SHALL BE SURFACE MOUNT NEMA 1. ACCEPTABLE MANUFACTURERS INCLUDE SQUARE D, SIEMENS, GE, EATON, OR APPROVED EQUAL.
- DO NOT DRILL ANCHORS INTO PRE-STRESSED CONCRETE STRUCTURE. ATTACH TO NON TENSIONED POURED IN PLACE STRUCTURE ONLY. 6.
- 7. ALL INSTALLATIONS TO MEET THE NEC, NFPA, AND CITY OF TACOMA STANDARDS.
  - PVC IS SCHEDULE 40 UNLESS NOTED OTHERWISE.
- 9 IF INFORMATION IS SHOWN ANYWHERE IN THE PLANS IT IS THE SAME AS SHOWN EVERYWHERE IT IS APPLICABLE. DIMENSIONS ARE PROVIDED IN DETAILS TO ESTABLISH APPROXIMATE TOTAL AREA WHERE EQUIPMENT CAN BE INSTALLED. ACTUAL/FINAL DIMENSIONS TO BE 10. COORDINATED IN THE FIELD WHEN EXACT DIMENSIONS OF EQUIPMENT ARE ESTABLISHED.
- 11. CABLE MANAGEMENT SYSTEMS, BREAKAWAY BASEPLATES, AND NEW PAD MOUNTED SERVICE CABINETS. THESE EQUIPMENT ARE TO BE INSTALLED BY CONTRACTOR.
- 12. CONDUIT LAYOUT AND EQUIPMENT LOCATIONS ARE DIAGRAMMATIC, FINAL PLAC

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DESIGNED CHECKED	
FINAL CONSTRUCTION CHECKED DATE SCALE NTS OPING ZIME	T,

### SHEET INDEX

ACITY	SHEET NO.	DRAWING NAME	SHEET DESCRIPTION
	1	CV1	COVER
	2	EL1	MUNICIPAL PARKING LOT
	3	EL2	TACOMA PARKING GARAGE
	4	EL3	PARK PLAZA GARAGE
	5	EL4	14TH ST LOT
	6	EL5	MUSEUM OF GLASS GARAGE
	7	EL6	CONVENTION CENTER GARAGE
	8	EL7	TACOMA DOME, LOT A
	9	EL8	WALL/PEDESTAL MOUNTED EV CHARGER DETAILS
	10	EL9	SMART DC CHARGER AND DISCONNECT DETAILS
	11	EL10	EVSE PAVEMENT MARKING AND SIGNAGE DETAILS
	12	EL11	SERVICE FOUNDATION AND GROUNDING DETAILS
	13	EL12	480V AND 208V SERVICE CABINET DETAILS
	14	EL13	PEDESTAL INSTALLATION DETAILS
	15	EL14	PANEL SCHEDULES (1 OF 2)
	16	EL15	PANEL SCHEDULES (2 OF 2)

CONDUIT TRENCHING TO AVOID DAMAGE TO ANY UNDERGROUND UTILITIES. CONTACT THE OWNER'S ENGINEER IF PROPOSED CONSTRUCTION CONFLICTS WITH

ALL EQUIPMENT, BREAKERS, DISCONNECTS, AND CHARGERS TO BE CLEARLY MARKED USING PHENOLIC LABEL STATING TACOMA POWER AS THE OWNING PARTY

INSTALLED. DISCONNECT HANDLE SHALL BE ON EXTERIOR OF ENCLOSURE AND BE LOCKABLE IN BOTH THE OPEN AND CLOSED POSITION. LABELED WITH THE LOAD SERVED, VOLTAGE, PHASE, HORSEPOWER, AND THE PANEL AND CIRCUIT NUMBER FROM WHERE IT IS FED. ACCEPTABLE MANUFACTURERS INCLUDE SQUARE D.

THE FURNISHING OF THE FOLLOWING EQUIPMENT IS NOT IN CONTRACT (NIC): ELECTRIC VEHICLE CHARGERS, CHARGER MOUNTING PEDESTALS WHERE SHOWN,

CEMENT IS TO BE COORDINATED IN THE FIELD WITH OTHER TRADES AND P	ROJECT
ACOMA PUBLIC UTILITIES	SPEC. NO.
DOWNTOWN TACOMA EVSE COVER	
TACOMA, WASHINGTON	SHEET NO.

0F 16

EPE		
	Appro	ox. 130'
	$\begin{array}{c} 11 \\ \hline \\ \hline \\ \hline \\ 13 \end{array}$	
(2) B EXISTING TACOMA POWER VAULT	EV2-ALT 1 T T T T T T T T T T T T T	<li></li>

$\langle 1 \rangle$	INSTALL CONCRETE FOUNDATION AND OWNER FURNISHED SMART DC EV CHARGER PER MANUFACTURER SPECIFICATION AND DETAIL ON DRAWING EL9.
2	EXCAVATE NORTH SIDE OF VAULT, CORE HOLE THROUGH VAULT AND THROUGH RETAINING WALL PER TACOMA POWER CUSTOMER DRAWING. RUN GRS CONDUITS EXPOSED DOWN FACE OF RETAINING WALL THEN UNDERGROUND ACROSS PARKING LOT TO NEW XFMR VAULT IN PARKING LOT PER TACOMA POWER STANDARD C-UG-1100.
3	FURNISH AND INSTALL 5X5X4 XFMR VAULT PER TACOMA POWER STANDARD A-UG-1150, A-UG-1200, AND C-UG-1700. SEE DETAIL A FOR EQUIPMENT LAYOUT.
$\langle 4 \rangle$	200 KVA XFMR MV-480Y/277V 3-PH TO BE FURNISHED AND INSTALLED BY TACOMA POWER. XFMR IS SET ON TOP OF VAULT.
$\langle 5 \rangle$	TRENCH AND BURY CONDUIT PER TACOMA POWER STANDARD C-UG-1100.
6	INSTALL STUBOUT TOWARD BACK OF SIDEWALK.
(7)	FURNISH AND INSTALL PROTECTIVE BOLLARDS TO PROTECT XFMR, EV CHARGERS AND SERVICE CABINET PER TACOMA POWER STANDARD C-UG-1400. COORDINATE FINAL LOCATION WITH TPU INSPECTOR.
8	INSTALL OWNER FURNISHED SERVICE-RATED 400A, 480Y/277V, 3 PHASE, 4 WIRE, 24 SPACE SERVICE CABINET WITH 400A MAIN BREAKER, TACOMA POWER METER BASE, AND CURRENT TRANSFORMER. SEE DETAIL ON DRAWING EL12 AND THIS DRAWING FOR BREAKER SCHEDULE. REFERENCE TACOMA POWER STANDARD C-MR-0005 AND C-MR-0020 FOR METERING.
9	FURNISH AND INSTALL CONCRETE BASE AND GROUNDING UNDER SERVICE CABINET PER DETAIL ON DRAWING EL11 AND NEC.
(10)	PATCH RETAINING WALL CORES. RESTORE AREA LANDSCAPING, PAVEMENT, CONCRETE, BACKFILL, CURBING AND GUTTER TO ORIGINAL CONDITION.
$\langle 11 \rangle$	FURNISH AND INSTALL EV CHARGING SIGNS PER DETAIL ON DRAWING EL10.
(12)	EV CHARGING PAVEMENT MARKINGS PER DETAIL ON DRAWING EL10 WILL BE PERFORMED BY OTHERS.
(13)	FURNISH AND INSTALL NEMA 3R RATED, 3PH, 80A NONFUSED DISCONNECT SWITCH PER NEC.





3'





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REVISION	DATE		EL	.2	4/6/2023	
		FIELD BOOKS	DRAWING NAME		TISTER ENGINE	17
		DATE		PROJECT NAME	A 40434 B 65	U T
		BY	NB	XZ		D
			DESIGNED	CHECKED	A OF WASHIN	
		FINAL CONSTRUCTION CHECKED	DATE 1/18/23		OPING ZH	TA



- $\langle 1 \rangle$  FEED NEW EV CHARGERS FROM EXISTING PANEL 5A LOCATED ON THE FIFTH FLOOR.
- INSTALL (6) SIX OWNER FURNISHED WALL-MOUNTED LEVEL-2 CHARGERS PER DETAIL ON DRAWING EL8. USE POWER SHARING. WIRE CONFIGURATION PER MANUFACTURER'S INSTALLATION MANUAL.
- 3 FURNISH AND INSTALL CONDUIT FROM PANEL 5A TO NEW EV CHARGERS THROUGH THE WALL OPENING CLOSEST TO PANEL 5A.
- $\langle 4 \rangle$  FURNISH AND INSTALL EV CHARGING SIGNS PER DETAIL ON DRAWING EL10.
- 5 EV CHARGING PAVEMENT MARKINGS PER DETAIL ON DRAWING EL10 WILL BE PERFORMED BY OTHERS.
- 6 FURNISH AND INSTALL 12X12X4 NM NEMA 4 JUNCTION BOX FOR COMMUNICATION GATEWAY. LOCATE WITHIN 160' OF CHARGING UNITS WHERE CELL SIGNAL IS STRONGEST. SEE DETAIL ON DRAWING EL8.
- $\overline{7}$  FURNISH AND INSTALL DISCONNECT PER NEC.





#### WIRE NOTES

WIRE









PAD-MOUNTED TAMPER PROOF LOCKABLE ENCLOSURE. SEE DETAIL ON SHEET EL12.









### CONSTRUCTION NOTES

- $\langle 1 \rangle$  INSTALL CONCRETE FOUNDATION AND OWNER FURNISHED SMART DC EV CHARGER PER MANUFACTURER SPECIFICATION AND DETAIL ON DRAWING EL9.
- $\langle 2 \rangle$  EXCAVATE THROUGH SIDEWALK TO EXPOSE WEST SIDE OF TACOMA POWER VAULT. CORE HOLE FOR 3" CONDUIT THROUGH SIDE OF VAULT AND SEAL AND GROUT HOLE AROUND PVC BELL END. COORDINATE ACCESS TO VAULT WITH TACOMA POWER.
- 3 FURNISH AND INSTALL 5X5X4 XFMR VAULT PER TACOMA POWER STANDARD A-UG-1150, A-UG-1200, AND C-UG-1700. SEE DETAIL A FOR EQUIPMENT LAYOUT.
- $\langle 4 \rangle$  200 KVA XFMR MV-480Y/277V 3-PH TO BE FURNISHED AND INSTALLED BY TACOMA POWER. XFMR IS SET ON TOP OF VAULT.
- $\langle 5 \rangle$  TRENCH AND BURY CONDUIT 36" DEEP PER TACOMA POWER STANDARD C-UG-1100. INSTALL CONDUIT DIRECTLY BEHIND CURB OR SIDEWALK TO AVOID TREE ROOTS. COORDINATE WITH FIELD INSPECTOR.
- 6 INSTALL STUBOUT TO BACK OF SIDEWALK, APPROXIMATE LOCATION AS SHOWN. COORDINATE FINAL LOCATION WITH OWNER. UPDATE AS-BUILT DRAWINGS.
- $\langle 7 \rangle$  FURNISH AND INSTALL PROTECTIVE BOLLARDS TO PROTECT XFMR, EV CHARGERS AND SERVICE CABINET PER TACOMA POWER STANDARD C-UG-1400. COORDINATE FINAL LOCATION WITH TPU INSPECTOR.
- (8) INSTALL OWNER FURNISHED SERVICE-RATED 400A, 480Y/277V, 3 PHASE, 4 WIRE, 24 SPACE SERVICE CABINET WITH 400A MAIN BREAKER, TACOMA POWER METER BASE, AND CURRENT TRANSFORMER. SEE DETAIL ON DRAWING EL12 AND THIS DRAWING FOR BREAKER SCHEDULE. REFERENCE TACOMA POWER STANDARD C-MR-0005 AND C-MR-0020 FOR METERING.
- 9 FURNISH AND INSTALL CONCRETE BASE AND GROUNDING UNDER SERVICE CABINET PER DETAIL ON DRAWING EL11 AND NEC.
- (10) PATCH CORES AND RESTORE ALL AREA LANDSCAPING, PAVEMENT, CONCRETE, BACKFILL, CURBING AND GUTTER TO ORIGINAL CONDITION.
- (11) FURNISH AND INSTALL EV CHARGING SIGNS PER DETAIL DRAWING EL10.
- (12) EV CHARGING PAVEMENT MARKINGS PER DETAIL ON DRAWING EL10 WILL BE PERFORMED BY OTHERS.
- (13) FURNISH AND INSTALL NEMA 3R RATED, 3PH, 80A NONFUSED DISCONNECT SWITCH PER NEC.
- (14) OPEN CUT ROADWAY PER CITY OF TACOMA STANDARDS. USE SCHEDULE 80 PVC UNDER ROADWAY. BACKFILL TRENCH USING WSDOT APPROVED CDF.
- $\langle 15 \rangle$  COORDINATE VEGETATION REMOVAL AND REMEDIATION WITH FIELD INSPECTOR TO ACCOMMODATE NEW EQUIPMENT. REMOVE ALL ABOVE AND BELOW GROUND PORTIONS OF BOHEMIAN KNOTWEED PATCH AND DISPOSE OFFSITE VEGETATION REMOVED WITHOUT LEAVING FRAGMENTS. WITHIN THE PARKING LOT, PLANT A SAME OR SIMILAR TREE FOR EACH TREE REMOVED AND REPLACE IMPACTED BUSHES OR SHRUBS WITH SAME OR SIMILAR SPECIES AND SIZE. REFER TO TACOMA MUNICIPAL CODE 13.06.090.B FOR LANDSCAPING STANDARDS.
- (16) TRENCH WITHIN THE SIDEWALK CONCRETE PANEL IMMEDIATE NORTH OR SOUTH OF EXISTING VAULT. AVOID CURB RAMPS AND CURB RADIUS OF SIDEWALK.



#### **ONE-LINE DIAGRAM**

NOT TO SCALE

REVISION	DATE	APPD		EL EL	_4	4/6/2023	
			FIELD BOOKS	DRAWING NAME	_	TOSTONAL ENGINE	
			DATE	LS	PROJECT NAME	Ap 40434 (D) (S)	I
			BY	NB	XZ		
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			FINAL CONSTRUCTION CHECKED	DATE 1/18/23	SCALE NTS	OPING ZH	Т

#### WIRE NOTES

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#### **GENERAL NOTES**

SOILS AT THIS LOCATION MAY BE CONTAMINATED. EXCAVATE, REMOVE AND DISPOSE OF CONTAMINATED SOIL PER RCRA SUBTITLE C OR D. THE EXCAVATED AREA SHALL BE REPLACED WITH CLEAN BACKFILL



- T FURNISH AND INSTALL A NEW PANEL RATED 225A, MLO, 208Y/120V. PLACE IN VICINITY OF EXISTING PANEL L2G. SEE ONE LINE DIAGRAM FOR BREAKER SCHEDULE.
- 2 FEED NEW PANEL FROM 225A SPARE BREAKER IN SWITCHBOARD LD1A AS SHOWN.
- (3) INSTALL (6) SIX OWNER FURNISHED WALL-MOUNTED LEVEL-2 CHARGERS ON THE GROUND FLOOR ALONG GARAGE WALL ADJACENT TO DOCK STREET IN PARKING STALLS 168 TO 173 AS SHOWN PER DETAIL ON DRAWING EL8.
- (4) FURNISH AND INSTALL CONDUIT EXPOSED OVERHEAD IN GARAGE FROM MAIN ELECTRICAL ROOM TO EV CHARGERS.
- 5 FURNISH AND INSTALL EV CHARGING SIGNS PER DETAIL ON DRAWING EL10.
- 6 EV CHARGING PAVEMENT MARKINGS PER DETAIL ON DRAWING EL10 WILL BE PERFORMED BY OTHERS.
- T FURNISH AND INSTALL 12X12X4 NM NEMA 4 JUNCTION BOX FOR COMMUNICATION GATEWAY. LOCATE WITHIN 160' OF ALL CHARGING UNITS WHERE CELL SIGNAL IS STRONGEST. SEE DETAIL ON DRAWING EL8.
- $\langle 8 \rangle$  FURNISH AND INSTALL DISCONNECT FOR EACH CHARGER PER NEC.

FINAL CONSTRUCTION CHECKED

DATE

DATE APPD

FIELD BOOKS

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PROJECT NAME

1/18/23

LS

DRAWING NAME

EL5

DESIGNED NB

DRAWN

4/6/202







17-6

### WIRE NOTES



/1 2"C, 4-#4/0, #2G CU 2 1.25"C, 4#4, #8G CU 3 3/4"C, 2#12, #12G

ACOMA PUBLIC UTILITIES	SPEC. NO.
	WBS NO.
DOWNTOWN TACOMA EVSE MUSEUM OF GLASS GARAGE	
	SHEET NO.
1801 DOCK ST	6 16 SHEET OF



- 1 INSTALL (6) OWNER FURNISHED PEDESTAL-MOUNTED LEVEL-2 CHARGERS AS SHOWN PER DETAIL ON DRAWING EL13.
- 2 FURNISH AND INSTALL CONDUIT EXPOSED OVERHEAD IN GARAGE FROM PANEL 22M2 TO EV CHARGERS.
- $\sqrt{3}$  FURNISH AND INSTALL EV CHARGING SIGNS PER DETAIL ON DRAWING EL10.
- 4 EV CHARGING PAVEMENT MARKINGS PER DETAIL ON DRAWING EL10 WILL BE PERFORMED BY OTHERS.
- 5 FURNISH AND INSTALL 12X12X4 NM NEMA 4 JUNCTION BOX FOR COMMUNICATION GATEWAY. LOCATE WITHIN 160' OF ALL CHARGING UNITS WHERE CELL SIGNAL IS STRONGEST. SEE DETAIL ON DRAWING EL8.
- <sup>6</sup> DISCONNECT MEANS FOR EACH CHARGER IS TO BE FURNISHED BY THE OWNER, INSTALLED IN PEDESTAL. SEE DETAIL ON DRAWING EL13.







1.25"C, 4#8, #8G CU  $\sqrt{1}$ 2 3/4"C, 2#12, #12G



**ONE-LINE DIAGRAM** NOT TO SCALE



ACOMA PUBLIC UTILITIES	SPEC. NO.		
	WBS NO.		
DOWNTOWN TACOMA EVSE			
ONVENTION CENTER GARAGE	SHEET NO		
1500 COMMERCE ST	SHEET	7 OF	16

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Approx. 110'	1
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EV CHARGING CHARGING ONLY CHARGING ONLY ONLY ONLY	
(11) <sub>TYP.</sub>	
CONSTRUCTION NOTES	
1 TACOMA POWER TO FURNISH AND INSTALL POLES, MV-208Y/120V XFMR AND 3 PHASE AERIAL SERVICE CONDUCTORS TO THE NEW POLE.	
2 FURNISH AND INSTALL TACOMA POWER RISER ON POLE PLACED ABOVE/BEHIND ROCK WALL PER TACOMA POWER STANDARD C-UG-1200. INSTALL UNDERGROUND CONDUIT TO XFMR VAULT.	
3 COORDINATE FINAL INSTALLATION LOCATION WITH TACOMA POWER.	
4       FURNISH AND INSTALL 5X5X4 XFMR VAULT PER TACOMA POWER STANDARD A-UG-1150,       VVIR         A-UG-1200, AND C-UG-1700. SEE DETAIL A FOR EQUIPMENT LAYOUT.       \scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\strime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\scrime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\strime{\str\strime{\str\strime{\str\str\strime{\strime{\strime{\s	
5 INSTALL OWNER FURNISHED SERVICE-RATED 400A, 208Y/120V, 3 PHASE, 24 SPACE	(2) 4"P
CURRENT TRANSFORMER. SEE DETAIL ON DRAWING EL13 AND THIS DRAWING FOR BREAKER SCHEDULE. REFERENCE TACOMA POWER STANDARD C-MR-0005 AND C-MR-0020 FOR METERING.	3/4"C, 2
6 INSTALL PROTECTIVE BOLLARDS TO PROTECT XFMR, EV CHARGERS AND SERVICE CABINET PER TACOMA POWER STANDARD C-UG-1400. COORDINATE FINAL LOCATION WITH TPU INSPECTOR.	1.25"PV
7       FURNISH AND INSTALL 12X12X4 NM NEMA 4 JUNCTION BOX FOR COMMUNICATION       6         GATEWAY. LOCATE WITHIN 160' OF ALL CHARGERS WHERE CELL SIGNAL IS       7	1.5"PVC
STRONGEST. SEE DETAIL ON DRAWING EL8.	2"PVC,
LANDSCAPING, PAVEMENT, CONCRETE, BACKFILL, CURBING AND GUTTER.	
(9) INSTALL (10) TEN OWNER FURNISHED PEDESTAL-MOUNTED LEVEL 2 CHARGERS PER DETAIL ON DRAWING EL13, WITH EACH PEDESTAL POSITIONED IN FRONT AND BETWEEN TWO PARKING STALLS.	
10 FURNISH AND INSTALL EV CHARGING SIGNS PER DETAIL ON DRAWING EL10.	
11 EV CHARGING PAVEMENT MARKING PER DETAIL ON DRAWING EL10 BY OTHERS.	
(12) INSTALL STUBOUT SOUTH OF XFMR, APPROXIMATE LOCATION AS SHOWN. COORDINATE FINAL LOCATION WITH OWNER. INCORPORATE IN AS-BUILT DRAWINGS.	
(13) FURNISH AND INSTALL CONCRETE BASE AND GROUNDING UNDER SERVICE CABINET PER DETAIL ON DRAWING EL11 AND NEC.	
44 DISCONNECT MEANS FOR EACH CHARGER IS TO BE FURNISHED BY THE OWNER, INSTALLED IN BASE OF PEDESTAL. SEE DETAIL ON DRAWING EL13.	
TACOMA POWER TACOMA RAIL	

TACOMA PUBLIC UTILITIES







#### DTES

- ACOMA POWER
- VC, 4-500 MCM, #2/0G
- 2#12, #12G
- PVC CONDUIT STUB OUT
- VC, 4#4, #8G CU
- /C, 4#2, #8G CU
- C, 4-#1/0, #6G CU
- C, 4-#3/0, #4G CU



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	FIELD BOOKS		DRAWING NAME		TOSTONAL ENGLISH	
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![](_page_8_Figure_0.jpeg)

#### COMMUNICATION GATEWAY ENCLOSURE NOT TO SCALE

![](_page_8_Picture_2.jpeg)

![](_page_8_Picture_3.jpeg)

CABLE MANAGEMENT SYSTEM -

![](_page_8_Figure_6.jpeg)

#### PARK PLAZA GARAGE POWER SHARING DIAGRAM

NOT TO SCALE

			FINAL CONSTRUCTION CHECKED	DATE 1/18/23	SCALE NTS	OPING ZAL	T
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			DATE		PROJECT NAME	B 40434 S	
			FIELD BOOKS			CARGISTER'S INCIDENCE	VVALL/FEDE
REVISION	DATE	APPD		EL8		4/6/2023	

![](_page_8_Figure_10.jpeg)

![](_page_9_Figure_0.jpeg)

TACOMA PUBLIC UTILITIES

			FINAL CONSTRUCTION CHECKED	DATE 1/18/23	SCALE NTS	OPING ZHA	Т
			BY	designed NB	CHECKED XZ		а 
			DATE	drawn LS	PROJECT NAME	A 40434 gs 65	SMART DO
			FIELD BOOKS	DRAWING NAME		TUS ONAL ENGINE	
REVISION	DATE	APPD		EL9		4/6/2023	

- SIGN

#### CONSTRUCTION NOTES

![](_page_9_Picture_4.jpeg)

- 2 CONSTRUCT CONCRETE FOUNDATION PER WSDOT STANDARD J-10.10-04 AND AS SHOWN.
- 3 DISCONNECT TO BE LOCKABLE IN BOTH THE OPEN AND CLOSED POSITION.
- 4 SEE ONE-LINE AND ELEVATIONS DRAWINGS FOR CONDUIT AND CABLING INFORMATION.
- 5 CABLE MANAGEMENT SYSTEM ATTACHED TO SIDE OF CHARGER.

- COORDINATE DISCONNECT LOCATION WITH TPU INSPECTOR

- FINISHED GRADE

- CONDUIT AND CABLE TO SERVICE

ACOMA	PUBLIC	UTILITIES

DOWNTOWN TACOMA EVSE C CHARGER AND DISCONNECT DETAILS SPEC. NO.

/BS NO

SHEET

SHEET NO.

10 16 <sub>OF</sub>

#### NOTES

THE FOLLOWING INSTRUCTIONS ARE FOR REFERENCE ONLY. PAVEMENT MARKING WILL BE PERFORMED BY OTHERS.

PROVIDE 4.5" SPACING BETWEEN STENCILS.

LOCATION: CENTER AT FOOT OF PARKING STALL

FONT: STANDARD GOTHIC

COLOR: GREEN ON EXISTING SURFACE (NO FILL INSIDE STENCIL)

![](_page_10_Picture_6.jpeg)

![](_page_10_Picture_7.jpeg)

![](_page_10_Picture_8.jpeg)

### NOTES

SIGNING DEPARTMENT.

SIGNS (1) AND (2) ARE TO BE PLACED TO IDENTIFY EV CHARGING PARKING SPACE.

SIGN (3) IS TO BE PLACED TO SHOW THE DIRECTION OF CHARGING STATION(S)

FURNISH AND INSTALL SIGNING ADJACENT TO EACH PARKING STALL SERVED BY AN EV CHARGER. MOUNT ON APPROPRIATE WALL OR INSTALL ON 4X4 TREATED WOOD POST WHERE WALL MOUNTING IS NOT SUITABLE. COORDINATE EXACT LOCATIONS WITH CITY OF TACOMA SITE REPRESENTATIVE.

> EVSE PARKING SIGNAGE SCALE: NOT TO SCALE

			FINAL CONSTRUCTION CHECKED	<sup>DATE</sup> 1/18/23	scale NTS	OPING ZHA	Т
			ВҮ		CHECKED XZ		-
			DATE		PROJECT NAME	A 40434 60 AT	EVSE PAVE
			FIELD BOOKS	DRAWING NAME		CHARLES CONAL ENGINE	
REVISION	DATE	APPD		EL10	)	4/6/2023	

FURNISH AND INSTALL SIGNING. COORDINATE WITH FIELD INSPECTOR AND TACOMA POWER

ACOMA PUBLIC UTILITIES

DOWNTOWN TACOMA EVSE EMENT MARKING AND SIGNAGE DETAILS SPEC. NO.

WRS NO

SHEET

SHEET NO. . 11 16 OF

![](_page_11_Figure_0.jpeg)

- $\langle 4 \rangle$  FURNISH AND INSTALL ACCESSIBLE GROUND WELL AT EACH GROUND ROD.

- $\langle 8 \rangle$  INTERNAL UTILITY POWER METER
- $\langle 9 \rangle$  MAIN BREAKER
- $\langle 10 \rangle$  LOCKABLE DISTRIBUTION CIRCUIT BREAKERS SEE ONE LINE FOR INFORMATION.
- $\langle 11 \rangle$  UTILITY TERMINATION CT SECTION PER TACOMA POWER REQUIREMENTS

FINAL CONSTRUCTION CHECKED DATE 1/18/23	NTS OPING ZH	Т
BY DESIGNED NB	HECKED XZ	
DATE DRAWN LS	ROJECT NAME	
FIELD BOOKS DRAWING NAME	CISTER CURA	SERVICE
REVISION DATE APPD EL11	4/6/2023	

 $\langle 1 \rangle$  FURNISH AND INSTALL 5/8" X 10' COPPER CLAD GROUND ROD IN ALL 4 CORNERS OF THE FOUNDATION.

2 CONSTRUCT CONCRETE SERVICE FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD J-10.10-04

3 FURNISH AND INSTALL CONTINUOUS BARE COPPER CONDUCTOR GROUND RING 6" INSIDE THE EDGE OF THE CONCRETE FOUNDATION, BURIED 12" BELOW THE BOTTOM OF THE CONCRETE FOUNDATION, IN FULL CONTACT WITH NATIVE SOIL MATERIAL AND CONNECTED TO ALL GROUND RODS USING APPROVED NEC COMPLIANT CONNECTORS.

5 EXTEND BARE COPPER GROUND TAIL FROM TWO GROUND RODS TO THE SERVICE CABINET GROUND TERMINAL. PROTECT COPPER CONDUCTOR THROUGH CONCRETE BY INSTALLING IN CONDUIT.

 $\langle 6 \rangle$  #3 REBAR 12" ON CENTER, PLACE REBAR MAT IN THE CENTER OF CONCRETE PAD PER WSDOT STANDARD J-10.10-04

 $\langle 7 \rangle$  ANCHOR SERVICE CABINET TO CONCRETE FOUNDATION PER WSDOT STANDARD J-10.10-04

ACOMA	PUBLIC	UTILITIES

DOWNTOWN TACOMA EVSE OUNDATION AND GROUNDING DETAILS SPEC. NO.

BS NO

SHEET NO.

12 16 <sub>OF</sub> SHEET

#### **GENERAL NOTES**

1. DESIGN SHOWN IS BASED ON SKYLINE MANUFACTURING - SERIES 67850. MANUFACTURER'S NAMES AND MODELS ARE PROVIDED AS A POINT OF REFERENCE FOR A STANDARD, QUALITY AND FUNCTIONALITY AND ARE NOT INTENDED TO IMPLY SOURCING OF THE PRODUCT OR SERVICE PANEL. THE SERVICE PANEL MUST MEET OR EXCEED ALL THE CHARACTERISTICS SHOWN.

 CIRCUIT BREAKERS SHALL COMPLY WITH WSDOT 2023 STANDARD SPECIFICATION 9-29.24 AND SERVICE ENCLOSURE SHALL COMPLY WITH SECTION 9-29.25.

3. SERVICE CABINET IS FURNISHED BY CITY OF TACOMA.

#### 277/480V PANEL

#### COMPONENT SCHEDULE

1. 400A, 3Ø, 4W, CT LANDING PAD, B-LINE 6067HAL

2. 13 JAW CT RATED METER BASE, B-LINE 121413

3. PANELBOARD:

277/480V, 400A COPPER BUS, 3Ø, 4W, 24CKT, 200KAIC RATED MAIN BREAKER: 600A FRAME, 400A TRIP, 3 POLE, EATON PDG33F0400FTAJ BOLT ON BRANCH BREAKERS (QUANTITY PER PANEL SCHEDULES ON SHEETS EL14 AND EL15):

100A FRAME, 80A TRIP, EATON GHB3080

LOCKOUT ACCESSORY (QUANTITY PER PANEL SCHEDULES ON SHEETS EL14 AND EL15):

EATON GPLKOFF

#### CABINET NOTES

- NEMA TYPE 3R OUTDOOR PADMOUNT
- #12 GA PRE-GALV STEEL CONSTRUCTION
- OPEN BOTTOM FRAMED WITH 2" ANGLE
- TOP AND BOTTOM SCREENED AND GASKETED VENTS
- DOORS: HEAVY-DUTY CONCEALED HINGES (LIFT-OFF TYPE), PADLOCKABLE STAINLESS STEEL VAULT HANDLES WITH ROLLER RODS THAT PROVIDE 3-POINT COMPRESSION ON CLOSED CELL NEOPRENE GASKET
- CT SECTION: METERBASE AND DEAD-FRONTED CT LANDING PAD
- DEAD-FRONTED DISTRIBUTION SECTION
- FINISH: ASA61 GREY POLYESTER POWERED COAT FINISH OVER ZINC PRIMER. EQUIPMENT MOUNTING PAN WHITE.
- UL 508A ENCLOSED INDUSTRIAL CONTROL PANEL

![](_page_12_Picture_23.jpeg)

![](_page_12_Picture_24.jpeg)

![](_page_12_Figure_25.jpeg)

![](_page_12_Figure_26.jpeg)

#### 277Y/480V 3PH, 4W, 400A L1L2L3N 13 JAW CT PAD METERBASE 400A MAIN BREAKER BRANCH 80A BRANCH ╤╪╪ 80A 80A BRANCH BRANCH BRANCH 80A BRANCH

#### 120/208V PANEL

#### COMPONENT SCHEDULE

- 1. 400A, 3Ø, 4W, CT LANDING PAD, B-LINE 6067HAL
- 2. 13 JAW CT RATED METER BASE, B-LINE 121413
- 3. PANELBOARD:

120/208V, 400A COPPER BUS, 3Ø, 4W, 24CKT, 200KAIC SERIES RAT MAIN BREAKER: 600A FRAME, 400A TRIP, 3 POLE, EATON PDG33F BOLT ON BRANCH BREAKERS (QUANTITY PER PANEL SCHEDULES EL14 AND EL15):

100A FRAME, 40A TRIP, 2 POLE, EATON BAB2040

100A FRAME, 20A TRIP, 1 POLE, EATON BAB1020 LOCKOUT ACCESSORY (QUANTITY PER PANEL SCHEDULES ON S AND EL15):

EATON QL123EL

#### CABINET NOTES

- NEMA TYPE 3R OUTDOOR PADMOUNT
- #12 GA PRE-GALV STEEL CONSTRUCTION
- OPEN BOTTOM FRAMED WITH 2" ANGLE
- TOP AND BOTTOM SCREENED AND GASKETED VENTS
- DOORS: HEAVY-DUTY CONCEALED HINGES (LIFT-OFF TYPE), PADI STAINLESS STEEL VAULT HANDLES WITH ROLLER RODS THAT PR COMPRESSION ON CLOSED CELL NEOPRENE GASKET
- CT SECTION: METERBASE AND DEAD-FRONTED CT LANDING PAD
- DEAD-FRONTED DISTRIBUTION SECTION
- FINISH: ASA61 GREY POLYESTER POWERED COAT FINISH OVER Z
   EQUIPMENT MOUNTING PAN WHITE.
- UL 508A ENCLOSED INDUSTRIAL CONTROL PANEL

REVISION	DATE	APPD		EL1	2	4/6/2023	
			FIELD BOOKS	DRAWING NAME		SUDALAL ENGINE	
			DATE		PROJECT NAME	40434 pp 40434	
			BY	NB	XZ		
			CHECKED	1/18/23	NTS	NOPING ZHA	Т
			FINAL	DATE	SCALE		

TED 0400FTAJ S ON SHEETS 4 SHEETS EL14 4 SHEETS EL14 4 ELOCKABLE ROVIDE 3-POINT ZINC PRIMER.	3F 3 JAW CT TERBASE 0A, 2P BRANCH 0A, 2P BRANCH 0A, 2P BRANCH 0A, 2P BRANCH 0A, 2P BRANCH 0A, 2P BRANCH 1P SPACE	120Y/208V PH, 4W, 400A L1L2L3N CT LANDING PAD 400A MAIN BREAKER 40A, 2P BI 40A, 2P BI 40A, 2P BI 40A, 2P BI 40A, 2P BI 1P SPACE	RANCH RANCH RANCH RANCH RANCH	
		IFS	SPEC. NO.	
			WBS NO.	
208V 3PH SER\	/ICE CABINET	DETAILS	SHEET NO. 13 SHEET	16 OF

![](_page_13_Figure_0.jpeg)

![](_page_13_Picture_1.jpeg)

![](_page_13_Figure_2.jpeg)

![](_page_13_Figure_3.jpeg)

	LOCATION: 728 MARKET ST (MUNICIPAL PARKING LOT )											Ĺ	180Y/277 VC	NT 3 PH	HASE 4 WIRE	
Ne	w Panel		SERVING: FV CHARGERS										200,000 AIC	400 AN	/P MAIN LUGS	
СКТ		LOAD DI	ESCRIPTION		ТҮРЕ	KVA	A/P		PHAS	E	A/P	KVA	ТҮРЕ		LOAD DESCRIPTION	СКТ
1	CAR CHARG	SING STAT	ION #1		D	54.000	80/3	А								2
3									В							4
5										С						6
7	CAR CHARG	SING STAT	ION #2		D	54.000	80/3	А								8
9									В							10
11										С						12
13																14
15																16
17																18
					PHASE LOA	D PHA	SE A = 36.00	KVA,	PH	ASE B =	36.00 KVA,	PHASE C =	= 36.00 KVA			
LOAD	Ο ΤΥΡΕ		L	R	М	Н	WH				D	А	К	LM	TOTAL LOADS	
	CONN. LO	AD									108.00				108.00 KVA	129.91 AMI
	NET CALC L	OAD									108.00				108.00 KVA	129.91 AMI

#### NEW PANEL SCHEDULE NEW PANEL ENCLOSED IN SERVICE CABINET. FURNISHED BY CITY OF TACOMA

r																		
	malEA		LOCATION	I: 923 COMN	MERCE ST (P	ark plaza (	GARAGE FIF	TH LEV	EL)			2	208Y/120 VC	DLT 3 PH	ASE 4 WIRE			
Pd	nei 5A			SE	ERVING: NOI	RTH PARKING	G						22,000 AIC	225 AM	IP MAIN LUGS			
СКТ		LOAD DES	SCRIPTION		ТҮРЕ	KVA	A/P		PHAS	E	A/P	KVA	ТҮРЕ		LOAD DESCRIPTION	СКТ		
1	EXISTING C/	AR CHARGII	NG STATION	#1	D	7.200	40/2	А			80/2	13.400	D	CAR CHAR	GING STATION #7 AND #8	2		
3									В							4		
5	EXISTING C/	AR CHARGII	NG STATION	l #2	D	7.200	40/2			С	80/2	13.400	D	CAR CHAR	GING STATION #9 AND #1	0 6		
7								А								8		
9	EXISTING C	AR CHARGII	NG STATION	l #3	D	7.200	40/2		В		20/2	1.000	D	COMMUN	ICATION GATEWAY	10		
11										С								
13	EXISTING C	AR CHARGII	NG STATION	#4	D	7.200	40/2	А								14		
15									В							16		
17	CAR CHARG	SING STATIO	ON #5 AND #	<b>#</b> 6	D	13.400	80/2			С						18		
19								А								20		
PHAS	ELOAD	PHASE A = 3	30.90 KVA,	PHASE	B = 18.00 K∖	'A, PHA	SE C = 21.1	0 KVA										
	LOAD TY	PE	L	R	М	Н	WH				D	А	К	LM	TOTAL LOADS			
	CONN. LO	AD									70.00				70.00 KVA	194.31 AM		
	NET CALC L	LC LOAD 70.00 KVA 194.31 AM					194.31 AM											

#### EXISTING PANEL SCHEDULE 5A

![](_page_14_Picture_4.jpeg)

![](_page_14_Picture_5.jpeg)

No	v Denel		LOCATI	ON: 110 S	OUTH 10TH ST	T (TACOMA F	PARKING GA	RAGE)				2	08Y/120 VC	OLT 3 PH	ASE 4 WIRE	
nev	v Panel				SERVING: EV	CHARGERS							65,000 AIC	200 AM	P MAIN LUGS	
СКТ		LOAD DES	CRIPTION		ТҮРЕ	KVA	A/P		PHASE	<b>-</b>	A/P	KVA	ТҮРЕ		LOAD DESCRIPTION	СКТ
1	CAR CHARG	ING STATIO	)N #1		D	7.200	40/2	А		А	20/1	1.000	D	COMMUNI	CATION GATEWAY	2
3									В							4
5	CAR CHARG	ING STATIO	)N #2		D	7.200	40/2			С						6
7								А								8
9																10
11																12
13																14
15																16
17																18
19																20
21																22
23																24
					PHASE LC	DAD PH	ASE A = 7.20	) KVA,	PH	ASE B =	3.60 KVA,	PHASE C =	3.60 KVA			
	LOAD TY	PE	L	R	М	н	WH				D	А	К	LM		TOTAL LOADS
	CONN. LO	AD									15.40				14.40 KVA	39.98 AMP
	NET CALC LOAD									15.40				14.40 KVA	39.98 AMP	

No	v Danal		l	OCATION:	1401 PACIFIC	AVENUE (14	4TH ST LOT)					43	80Y/277 VO	LT 3 PH	IASE 4 WIRE		
Nev	v Fallel				SERVING: EV	CHARGERS						2	00,000 AIC	400 AN	1P MAIN LUGS		
СКТ		LOAD DES	CRIPTION		ТҮРЕ	KVA	A/P		PHASE	E	A/P	KVA	ТҮРЕ		LOAD DESCRIPTION		СКТ
1	CAR CHARG	ING STATIC	)N #1		D	54.000	80/3	А									2
3									В								4
5										С							6
7	CAR CHARG	ING STATIC	)N #2		D	54.000	80/3	А									8
9									В								10
11										С							12
13																	14
15																	16
17																	18
					PHASE LOA	D PHAS	SE A = 36.00	KVA,	PHA	ASE B =	36.00 KVA,	PHASE C =	36.00 KVA				
LOAD	ТҮРЕ		L	R	М	Н	WH				D	А	К	LM	TOTAL LOADS		
	CONN. LO	AD									108.00				108.00 KVA	129.92	1 AMP
	NET CALC LO	DAD									108.00				108.00 KVA	129.92	1 AMP

## <u>NEW PANEL SCHEDULE</u> NEW PANEL ENCLOSED IN SERVICE CABINET. FURNISHED BY CITY OF TACOMA

![](_page_14_Figure_11.jpeg)

DOWNTOWN	ТАСОМА	EVSE
PANEL S	SCHEDUL	ΞS
1	OF 2	

TACOMA PUBLIC UTILITIES

SPEC. NO.

WBS NO.

SHEET NO. 15 16 SHEET OF

### NEW PANEL SCHEDULE

![](_page_15_Picture_0.jpeg)

## <u>NEW PANEL SCHEDULE</u> NEW PANEL ENCLOSED IN SERVICE CABINET. FURNISHED BY CITY OF TACOMA

No			LOCA	TION: 2727	7 EAST D STR	EET (TACON	1A DOME LC	TA)				2	.08Y/120 VC	OLT 3 PH	IASE 4 WIRE			
ivev	v Panei				SERVING: EV	CHARGERS						-	200,000 AIC	400 AN	1P MAIN LUGS			
СКТ		LOAD DES	SCRIPTION		TYPE	KVA	A/P		PHAS	E	A/P	KVA	ТҮРЕ		LOAD DESCRIPTION	СКТ		
1	CAR CHARG	GING STATIC	DN #1		D	7.200	40/2	А			40/2	7.200	D	CAR CHAR	GING STATION #6	2		
3									В							4		
5	CAR CHARG	GING STATIC	)N #2		D	7.200	40/2			С	40/2	7.200	D	CAR CHAR	GING STATION #7	6		
7								А								8		
9	CAR CHARG	GING STATIC	DN #3		D	7.200	40/2		В		40/2	7.200	D	CAR CHAR	GING STATION #8	10		
11										С						12		
13	CAR CHARG	SING STATIC	DN #4		D	7.200	40/2	А			40/2	7.200	D	CAR CHAR	GING STATION #9	14		
15									В							16		
17	CAR CHARG	SING STATIC	DN #5		D	7.200	40/2			С	40/2	7.200	D	CAR CHAR	GING STATION #10	18		
19								А								20		
21	COMMUNI	CATION GAT	ΓEWAY		D	1.000	20/2		В							22		
23										С						24		
	-				PHASE LOA	D PHA	SE A = 28.80	KVA,	PH	ASE B = 2	22.10 KVA,	PHASE C =	= 22.10 KVA	A				
	LOAD TY	PE	L	R	М	Н	WH				D	А	К	LM		TOTAL LOADS		
	CONN. LO	AD									73.00				73.00 KVA	202.64 AMP		
	NET CALC LOAD										73.00				73.00 KVA	202.64 AMP		

### NEW PANEL SCHEDULE

No	w Donal			LOCATION:	1801 DOCK S	T (MUSEUN	1 OF GLASS)					2	208Y/120 VC	DLT 3 PH	ASE 4 WIRE	
ne	w Panel				SERVING: EV	CHARGERS							65,000 AIC	225 AM	P MAIN LUGS	
СКТ		LOAD DES	SCRIPTION		ТҮРЕ	KVA	A/P		PHASE	E	A/P	KVA	TYPE		LOAD DESCRIPTION	СКТ
1	CAR CHARG	ING STATIO	DN #1		D	7.200	40/2	А			40/2	7.200	D	CAR CHARC	GING STATION #4	2
3									В							4
5	CAR CHARG	ING STATIO	DN #2		D	7.200	40/2			С	40/2	7.200	D	CAR CHARC	GING STATION #5	6
7								А								8
9	CAR CHARG	ING STATIO	DN #3		D	7.200	40/2		В		40/2	7.200	D	CAR CHARC	GING STATION #6	10
11										С						12
13	COMMUNIC	ATION GA	TEWAY		D	1.000	20/2	А								14
15									В							16
17										С						18
19								А								20
21									В							22
23										С						24
					PHASE LOA	D PHAS	SE A = 14.90	) KVA,	PHA	ASE B =	14.90 KVA,	PHASE C =	= 14.40 KVA			
	LOAD TYP	Έ	L	R	М	Н	WН				D	А	К	LM		TOTAL LOADS
	CONN. LOA	AD									44.20				44.20 KVA 122.70 /	
	NET CALC LC	DAD									44.20				44.20 KVA 122.70 /	

Dan	al 22842			LOCATIO	N: CONVENTI	ON CENTER	GARAGE					2	08Y/120 VC	DLT 3 PH	HASE 4 WIRE	
Pdi					SERVING: EV	CHARGERS							AI	C 225 A	MP MAIN LUGS	
СКТ		LOAD DESC	RIPTION		TYPE	KVA	A/P		PHASE		A/P	KVA	ТҮРЕ		LOAD DESCRIPTION	СКТ
1	CAR CHARGIN	IG STATION	#1		D	7.200	40/2	А			40/2	7.200	D	CAR CHAR	GING STATION #4	2
3									В							4
5	CAR CHARGIN	IG STATION	#2		D	7.200	40/2			С	40/2	7.200	D	CAR CHAR	GING STATION #5	6
7								А								8
9	CAR CHARGIN	IG STATION	#3		D	7.200	40/2		В		40/2	7.200	D	CAR CHAR	GING STATION #6	10
11										С						12
13	COMMUNICA	TION GATE	WAY		D	1.000	20/2	А								14
15									В							16
17										С						18
19								А								20
21									В							22
23										С						24
					PHAS	e load	PHASE A =	14.90,	PH	HASE B :	= 14.90,	PHASE C = 14	1.40			
	LOAD TYP	E	L	R	М	Н	WH				D	А	К	LM		TOTAL LOADS
	CONN. LOA	D									44.20				44.20 KVA	122.70 A
	NET CALC LO	AD									44.20				44.20 KVA	122.70 A

### EXISTING PANEL SCHEDULE 22M2

REVISION	DATE	APPD	1	EL1	5	4/6/2023	
			FIELD BOOKS	DRAWING NAME		THE STONAL ENGLISH	
			DATE		PROJECT NAME	A 40434 S	
			BY	NB	XPZ		
				DESIGNED	CHECKED	A Starting of WASHING	
			FINAL CONSTRUCTION CHECKED	DATE 1/18/23	SCALE NTS	OPING ZH	T,

ACOMA PUBLIC UTILITIES	SPEC. NO.		
	WBS NO.		
DOWNTOWN TACOMA EVSE PANEL SCHEDULES			
	SHEET NO.		
2 OF 2	1 SHEET	6 OF	16