



# Development Review (Minor) Staff Approval

13-SA-2024

WAYMO Parking and  
Charging Facility

## APPLICATION INFORMATION

LOCATION:	8701 E McDowell Rd	APPLICANT:	Brian Moore
PARCEL:	131-07-560	COMPANY:	BCMA Architecture
Q.S.:	12-48	ADDRESS:	322 W. Knight Lane Tempe, AZ 85284
ZONING:	C-4 & C-3	PHONE:	(602) 571-5728

Request: Request for new EV charging stations (including: SES, distribution, car chargers with bollards, and parking restriping) on a C-4 & C-3 lot, located at 8701 E. McDowell Rd.

## STIPULATIONS

1. Architectural elements, including dimensions, materials, form, color, and texture, shall be constructed to be consistent with the building elevations submitted by BCMA Architecture, with a city staff date of 5/23/2024.
2. The location and configuration of all site improvements shall be consistent with the site plan submitted by BCMA Architecture,, with a city staff date of 5/23/2024.

## CONSTRUCTION DOCUMENT PLAN REVIEW SUBMITTAL REQUIREMENTS

Submit one copy of this approval letter along with the following plan set(s) for review, using the e-Services Planning Online Center:

**Digital Plan submittals** can be made using the City's e-Services at <https://eservices.scottsdaleaz.gov/bldgresources/plans> and should include one PDF copy of each of the required plans/documents identified below.

ARCHITECTURAL: ☒ Commercial Architectural Plans

### Expiration of Development Review (Minor) Approval

This approval expires two (2) years from date of approval if a permit has not been issued, or if no permit is required, work for which approval has been granted has not been completed.

Staff Signature: \_\_\_\_\_

Casey Steinke, 480-312-2611

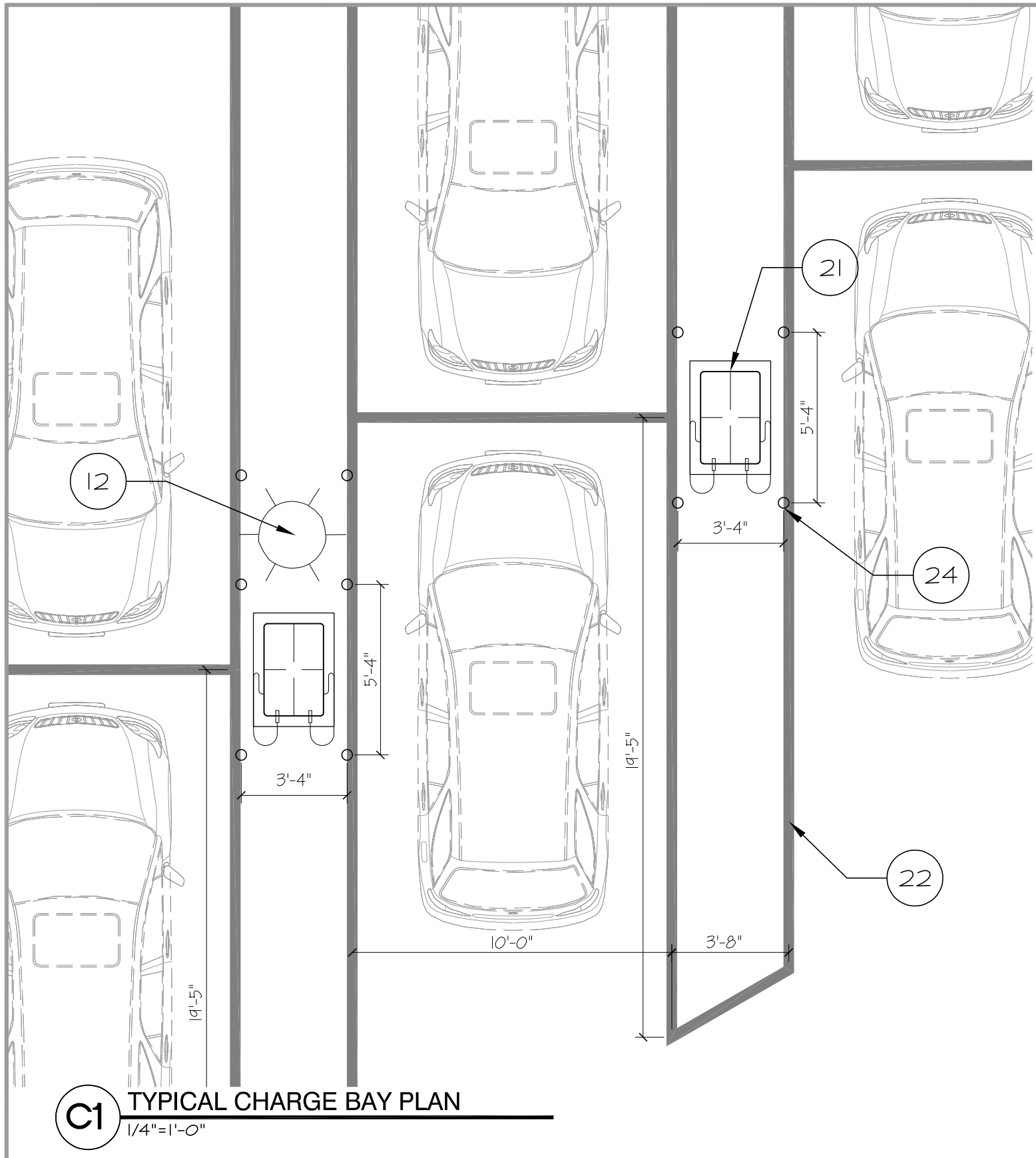
Date: \_\_\_\_\_

5/23/24

## Planning and Development Services

7447 East Indian School Road, Suite 105, Scottsdale, Arizona 85251 • [www.ScottsdaleAZ.gov](http://www.ScottsdaleAZ.gov)

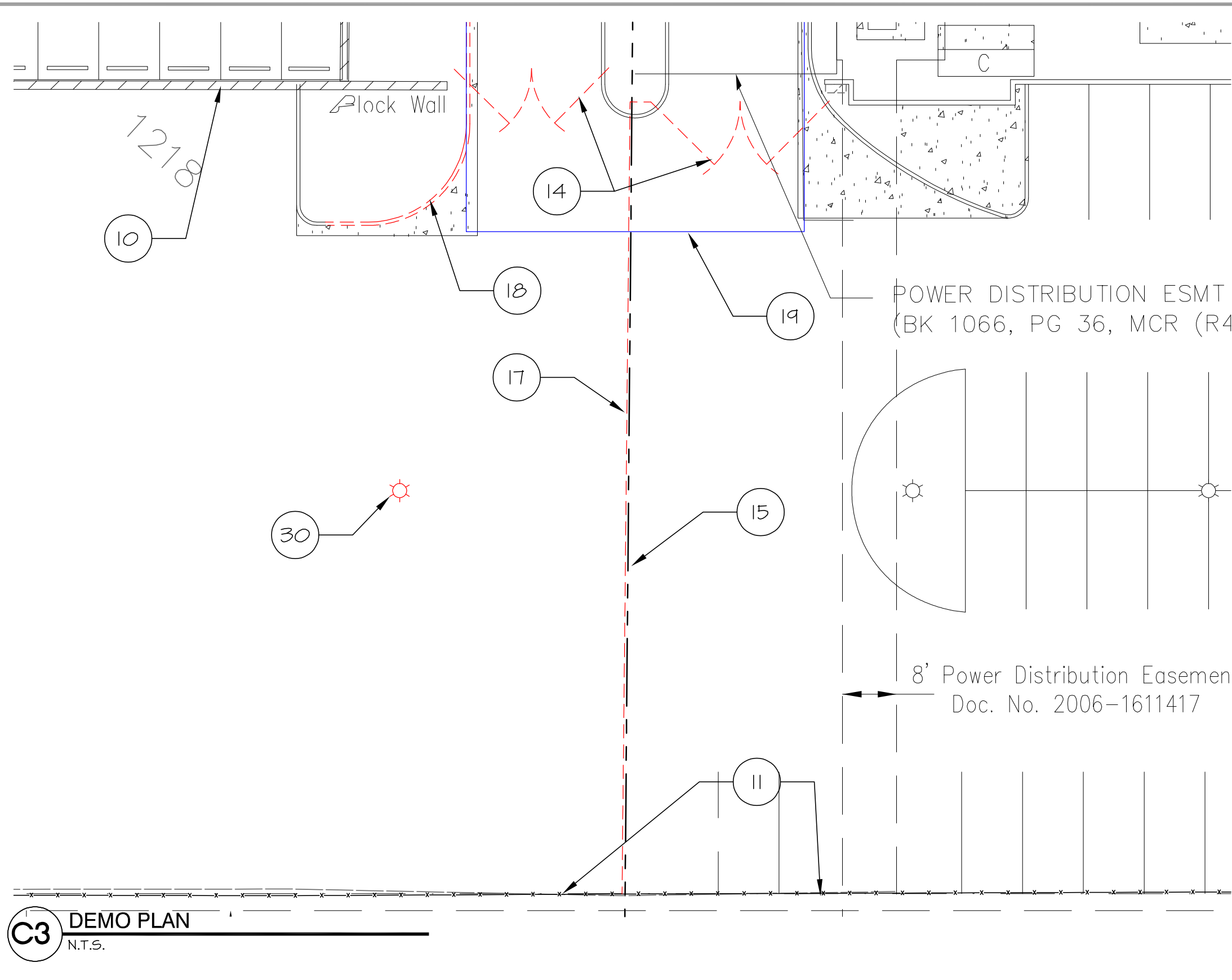




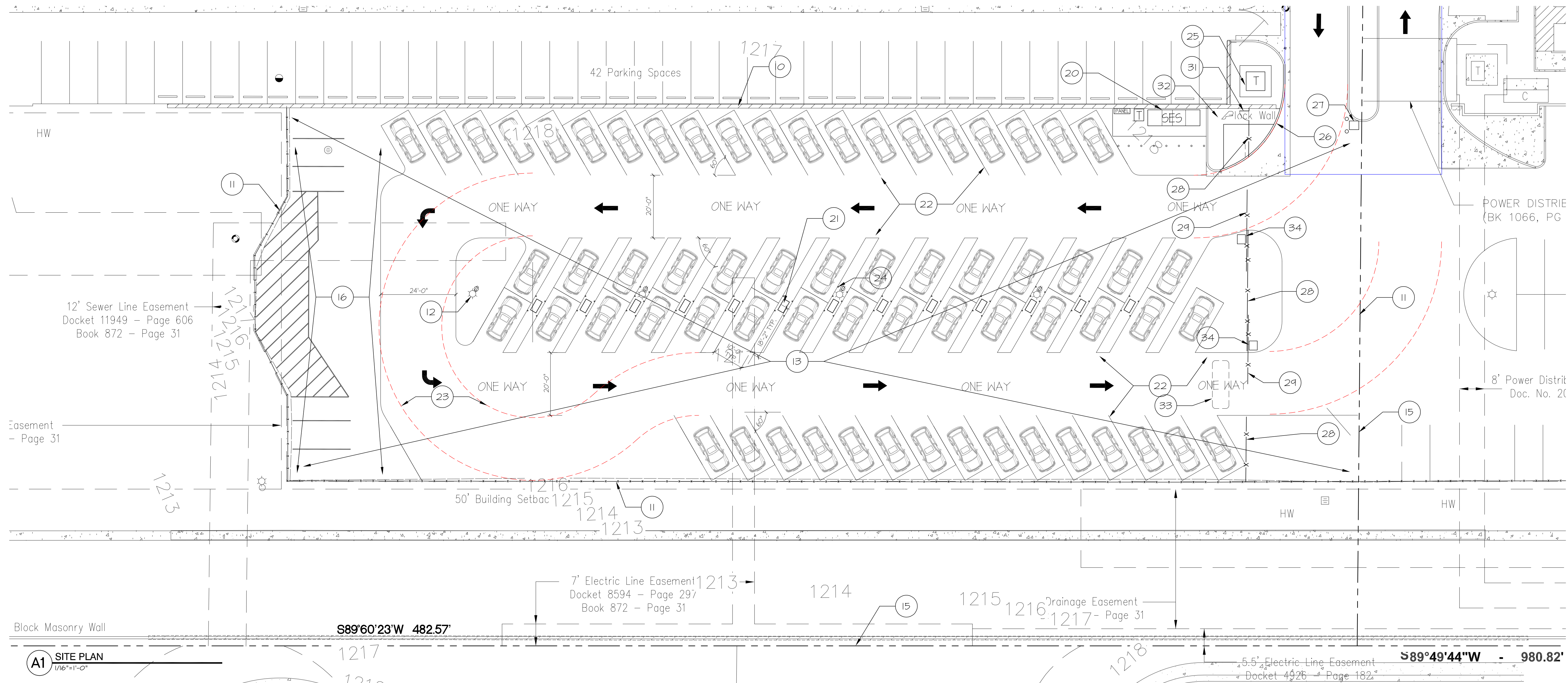
**APPROVED**  
Stip Set PLANNING

05/23/2024  
DATE  
APPROVED BY

**SITE PLAN APPROVED**  
By: Eliana Hayes  
05/15/2024



- KEY NOTES**
- EXISTING 6' HIGH CMU WALL TO REMAIN TYP.
  - EXISTING 6' HIGH WROUGHT IRON FENCE TOP REMAIN TYP.
  - EXISTING LIGHT FIXTURES TO REMAIN TYP.
  - EXISTING ASPHALT PARKING LOT TO REMAIN TYP.
  - EXISTING GATES TO BE REMOVED
  - EXISTING PROPERTY LINES
  - EXISTING TO REMAIN UNCHANGED IN THIS AREA.
  - EXISTING FENCE ALONG PROPERTY LINE TO BE REMOVED
  - EXISTING CURBING AND RAISED DG TO BE REMOVED
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  - NEW 3600 AMP SES ON CONCRETE PAD
  - 13 NEW DUAL PLUG CAR CHARGERS TYP. O CONCRETE PAD CENTERED ON ADJACENT PARKING STALL AND IN MEDIAN.
  - NEW STRIPING TO BE INSTALLED ON EXISTING PARKING LOT.
  - 20' FIRE LANE WITH 24' INSIDE TURNING RADIUS TYP.
  - 24" DIA 4" HIGH STEEL BOLLARD PAINTED TRAFFIC YELLOW SEE DETAIL C1/AS-102 TYP.
  - NEW TRANSFORMER
  - NEW VERTICAL CURB AND GUTTER TO BE INSTALLED TO ALLOW FIRE TRUCK ACCESS.
  - NEW GARD ACCESS AND KNOX BOX FOR GATE ACCESS TO BE INSTALLED. SEE DETAILS C2 & C3 /AS-102
  - NEW 6' HIGH WROUGHT IRON FENCE TO MATCH EXISTING SEE PHOTO C4/AS-102
  - NEW 20' WIDE CLEAR AUTOMATIC ROLLING GATE SEE DETAILS B3 & B4 /AS-102.
  - EXISTING LIGHT FIXTURE TO BE REMOVED.
  - NEW PEDESTRIAN GATE.
  - NEW 5' WIDE SIDEWALK FOR PEDESTRIAN ACCESS TO SITE
  - NEW UNDERGROUND LOOP TO OPERATE AUTOMATIC EXIT GATE
  - NEW AUTOMATIC GATE OPERATOR.

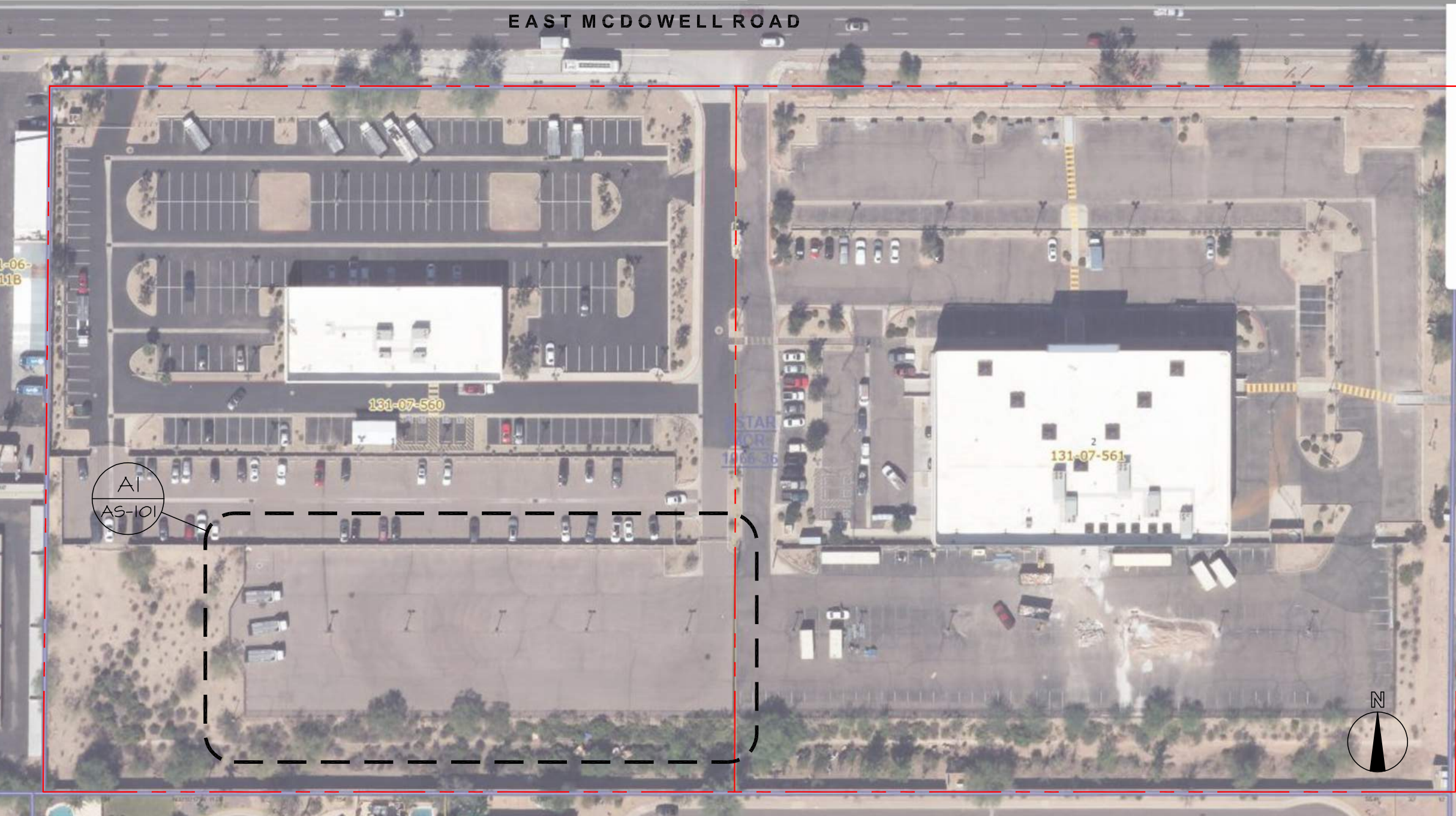




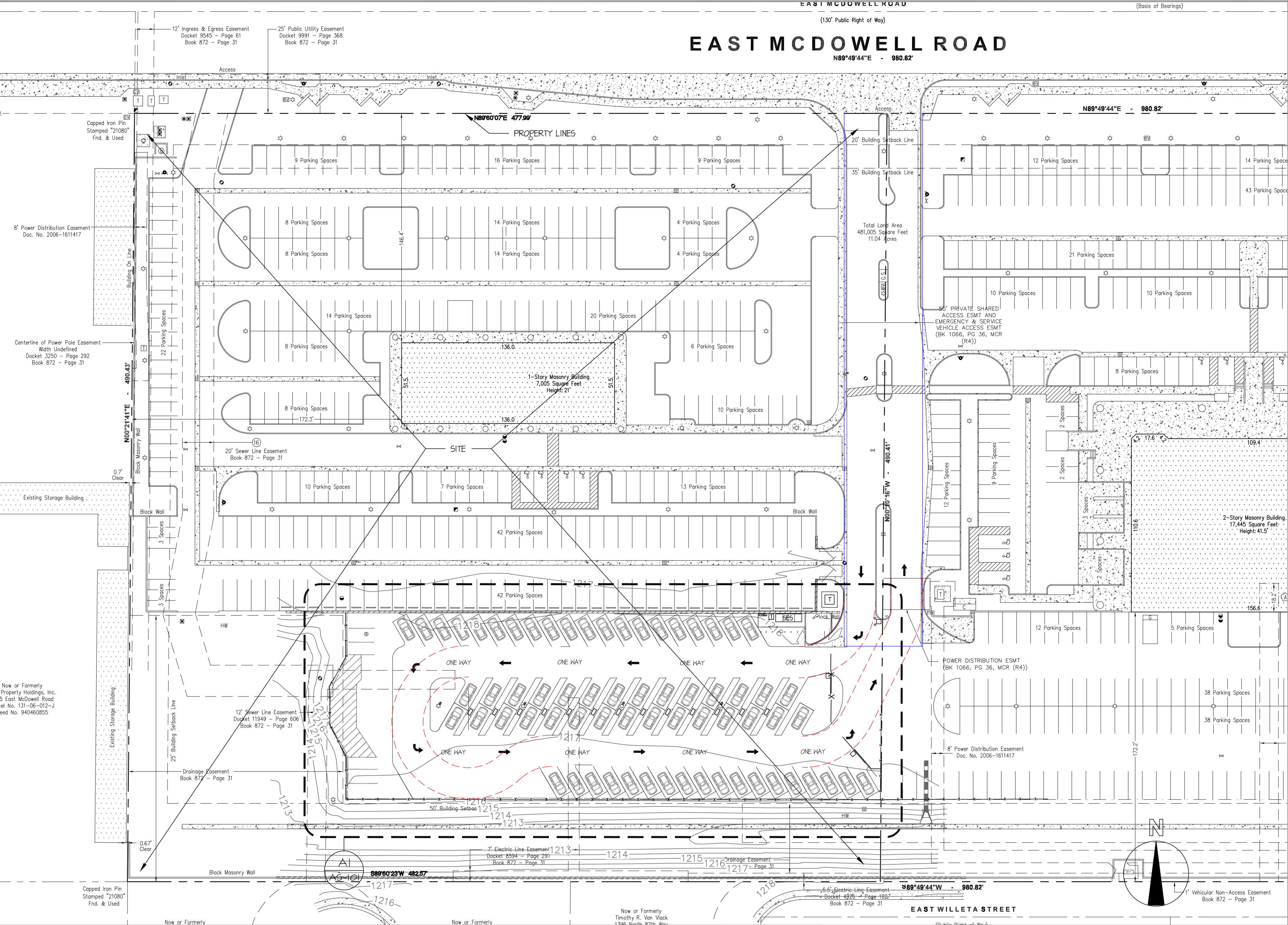
GENERAL NOTES

1. ALL DOCUMENTS A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", LATEST EDITION IS HEREBY INCORPORATED INTO THESE DRAWINGS AND SHALL BE CONSIDERED AS PART OF THE REQUIREMENTS FOR THE COMPLETION OF WORK.
2. ALL NOTES HEREIN MENTIONED WITH THOSE ON THE VARIOUS DRAWINGS SHALL APPLY TO ALL DRAWINGS AND FORM PART OF THE CONTRACT.
3. THESE DOCUMENTS, IDEAS, DESIGNS, ARRANGEMENTS AND PLANS ARE NOT TO BE REPRODUCED OR USED FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED, UNLESS APPROVED IN WRITING BY BCMA ARCHITECTURE.
4. THIS IS A RECORD SET OF CONSTRUCTION DOCUMENTS. ANY REVISIONS OR CHANGES TO THE CONSTRUCTION INTENT AS SHOWN IN THESE DOCUMENTS SHALL BE COORDINATED WITH AND PRODUCED BY BCMA ARCHITECTURE ON OUR ORIGINAL DOCUMENTS. REVISED RECORD SETS WILL BE REISSUED.
5. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE PROJECT PRIOR TO SUBMITTING A BID.
6. ALL WORK PERFORMED ON THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AS REQUIRED, SHELL DRAWINGS, SPECIFICATIONS AND AS-BUILT DOCUMENTS INDICATING EXISTING CONDITIONS AND MATERIALS REFERENCED HEREIN.
8. SHOULD THE GENERAL CONTRACTOR OBSERVE ANY ERRORS, DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT REQUESTING CLARIFICATION. THE GENERAL CONTRACTOR SHALL NOT PROCEED WITH WORK AFFECTED BY SUCH ERRORS, DISCREPANCIES OR OMISSIONS WITHOUT RECEIVING CLARIFICATION. ADJUSTMENTS INVOLVING SUCH CONDITIONS MADE BY THE GENERAL CONTRACTOR WITHOUT PRIOR CLARIFICATION BY THE ARCHITECT, SHALL BE AT THE SOLE EXPENSE OF THE GENERAL CONTRACTOR.
9. THE GENERAL CONTRACTOR SHALL CERTIFY ALL EXISTING DIMENSIONS, CLEARANCES AND CONDITIONS AND REPORT DISCREPANCIES AND CONFLICTS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK. FAILURE TO DO SO CONSTITUTES ACCEPTANCE AND RESPONSIBILITY OF ALL EXISTING CONDITIONS, INCLUDING EQUIPMENT AND PRECLUDES ADJUSTMENTS IN TIME OR MONEY AS REQUIRED TO RECTIFY THE SITUATION.
10. THESE DOCUMENTS ARE INTENDED TO FACILITATE THE CONSTRUCTION OF THE PROJECT, COMPLETE AND FUNCTIONAL IN ALL RESPECTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THIS RESULT. THE OMISSION OF EXPRESSED REFERENCE TO WORK NECESSARY AND REASONABLY INCIDENTAL TO THE COMPLETE CONSTRUCTION OF THIS PROJECT SHALL NOT BE CONSTRUED AS RELIEVING THE GENERAL CONTRACTOR OF HIS RESPONSIBILITIES.
11. ALL MATERIALS, EQUIPMENT AND TYPE OR METHODS OF CONSTRUCTION SHALL IN NO EVENT BE LESS THAN THAT NECESSARY TO CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, CHARTERS, ETC. OF THE REQUIRED GOVERNING AUTHORITIES.
12. THE GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL COMPONENTS OF THE PROJECT TO ENSURE A COMPLETE AND FUNCTIONAL INSTALLATION OF ALL WORK AND SYSTEMS. THE GENERAL CONTRACTOR SHALL CONDUCT COORDINATION MEETINGS AS REQUIRED WITH TRADES, ARCHITECT AND OWNER TO ENSURE COMPLETE UNDERSTANDING OF EQUIPMENT, SYSTEMS AND SPACIAL REQUIREMENTS.
13. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK TO BE PERFORMED WITH BUILDING OWNER AND BUILDING OWNER'S SUBCONTRACTOR(S).
14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY CONDITIONS RELATED TO AND AFFECTED BY THE WORK INCLUDING OCCUPANCIES ADJACENT TO THE WORK.
15. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR ANY CONDITIONS WHICH RELATE TO THE PERFORMANCE AND COORDINATION OF THEIR SPECIFIC TRADES.
16. EQUIPMENT, SERVICES FOR EQUIPMENT, SLAB OPENINGS, ETC. ARE BASED ON CURRENT MANUFACTURER'S REQUIREMENTS. THESE MAY CHANGE WITH UPDATED OR SUBSTITUTED EQUIPMENT. SERVICES AND SLAB OPENINGS SHALL BE UPDATED AND COORDINATED BY THE GENERAL CONTRACTOR.
17. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATIONAL PROJECT. ALL SYSTEMS SHALL BE WHOLE, WHETHER SPECIFIED IN FULL OR IN PART IN THESE DRAWINGS. IN CASES WHERE DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. ANY INSTANCE WHERE THE CONTRACTOR PROCEEDS WITH THE INSTALLATION CONTRARY TO THIS DIRECTIVE, WITHOUT THE ARCHITECT'S PRIOR APPROVAL, THE ARCHITECT RESERVES THE RIGHT TO RECTIFY THE WORK.
18. THE GENERAL CONTRACTOR SHALL AT ALL TIMES MAINTAIN TEMPORARY WATER AND ELECTRICAL SERVICES AND LIFE SAFETY SYSTEMS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND SECURITY OF THE PROJECT.
19. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLES, STRUTS, BRACKETS, TOSSELS, EYE BOLTS AND ALL OTHER MISCELLANEOUS HARDWARE AND ACCESSORIES REQUIRED TO PROPERLY SUPPORT, BRACE AND/OR REINFORCE ALL FINISHES, FRAMES, EQUIPMENT, ETC.
20. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL ROOF MOUNTED EQUIPMENT WITH THE BUILDING STRUCTURE.
21. ALL DIMENSIONS ARE ACTUAL EXCEPT DIMENSIONS OF CONCRETE, MASONRY, BRICK UNITS.
22. ALL DOORS AND MILLWORK SHALL BE SUBMITTED FOR SHOP DRAWINGS REVIEW, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE CURRENT ARCHITECTURAL WOODWORK STANDARDS.
23. ALL DIMENSIONS SHALL BE FROM FINISHED FACE TO FINISHED FACE UNLESS OTHERWISE NOTED.
24. DO NOT SCALE DRAWINGS.
25. ALL CONSTRUCTION DIMENSIONS AND DETAILS SHALL CONCUR WITH AND BE DETERMINED FROM THESE DRAWINGS ONLY.
26. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS AND LARGE SCALE DETAILS OVER SMALL. REPETITIVE DETAILS OR PLANS, FEATURES NOT COMPLETELY DESCRIBED AND/OR DETAILED SHALL BE CONSTRUCTED IN EXACT ACCORDANCE WITH CORRESPONDING FEATURES THAT ARE COMPLETELY DESCRIBED OR DETAILED.
27. ALL DIMENSIONS ARE TO BE EXACT WITHIN 1/4" ALONG FULL HEIGHT AND FULL WIDTH OF WALLS. CONTRACTOR SHALL NOT ADJUST ANY DIMENSIONS MARKED "CLEAR" OR "CLR" WITHOUT WRITTEN INSTRUCTIONS FROM THE ARCHITECT.
28. "TYPICAL" OR "TYP" MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
29. "SIMILAR" OR "SIM" MEANS COMPARABLE CHARACTERISTICS FOR ITEM NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
30. THE GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION OF N.G. ITEMS WITH OTHER TRADES.
31. THE PARTITIONS SHALL BE CONTINUOUS OVER ALL BUILT-IN EQUIPMENT WHERE INDICATED ON PLANS. THE CONTRACTOR SHALL FURNISH NECESSARY ANGLES, HANGER, ETC. TO COMPLETE INSTALLATION.
32. ALL PIPING AND ELECTRICAL CONDUITS SHALL BE CONCEALED WITHIN PARTITIONS, UNLESS OTHERWISE NOTED.
33. ALL FASTENINGS AND ATTACHMENTS SHALL BE FULLY CONCEALED FROM VIEW UNLESS OTHERWISE NOTED.
34. ALL DRYWALL PARTITIONS, BULKHEADS AND OTHER SIMILAR FRAMING SHALL BE ERECTED PLUMB AND SHALL NOT DEVIATE MORE THAN 1/8" INCH IN ANY 10 FOOT LENGTH OF PARTITIONING. THIS ALLOWABLE DEVIATION SHOULD NOT REDUCE DIMENSIONS. (SEE U.S. GYPSUM HANDBOOK SPECIFICATIONS FOR PROPER ASSEMBLY AND FINISH.)
35. ALL EXPOSED EDGES AND/OR CORNERS OF ALL GYPSUM WALLBOARD CONSTRUCTION SHALL RECEIVE APPROPRIATE CONCEALED METAL CORNER BEAD EDGE TRIM, J. TRIM, ETC. METAL DRYWALL CORNER BEADS ON ALL VERTICAL EDGES (OUTSIDE CORNERS) SHALL BE SCREWED THROUGH DRYWALL TO METAL STUDS 6 INCHES O.C. TYPICAL EACH FLANGE, UNLESS OTHERWISE NOTED.
36. ALL GYPSUM WALLBOARD DIRECTLY BEHIND OR ADJACENT TO ALL SINKS, INCLUDING IN CASEWORK, EXTENDING A MINIMUM DISTANCE OF 3'-0" HORIZONTALLY FROM THE CENTERLINE OF FIXTURE AND FROM FLOOR FINISH TO CEILING SHALL BE WATER RESISTANT TYPE AND ALL GYP. BD. BEHIND TILE PER IBC.
37. WHERE FIRE RATED PARTITIONS ARE SCHEDULED, CONTRACTOR SHALL PROVIDE TYPE "X" GYPSUM WALLBOARD.
38. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED AND/OR PREPARE COMPOSITE SHOP DRAWINGS TO ENSURE CLEARANCES FOR FIXTURES, DUCTS, CEILING, ETC. NECESSARY TO MAINTAIN THE SPECIFIED FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR SLABS AS NOTED ON THE DRAWINGS. CLARIFY CONFLICTS WITH ARCHITECT. CEILING GRID REFRAMING CHANGES DUE TO CEILING CONFLICTS WILL NOT BE ACCEPTED.
39. ALL EQUIPMENT INCLUDING LIGHT FIXTURES, LENSES, ETC. SHALL BE NEW AND FREE OF DEFECTS. ANY AND ALL DAMAGED, DENTED OR DEFECTIVE EQUIPMENT WHETHER IT BE BUILDING STANDARD OR SPECIAL ORDER, WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO OWNER.
40. ALL CEILING ELEMENTS (DOWNLIGHTS, SPRINKLER HEADS, ETC.) TO BE LOCATED AT CENTER OF CEILING TILE, UNLESS OTHERWISE NOTED.
41. THE ARCHITECT'S DRAWINGS SHALL SUPERSEDE ENGINEERING DRAWINGS WITH RESPECT TO DEVICE LOCATION, QUANTITY AND TYPE OF LIGHT FIXTURES, ELECTRICAL OUTLETS, SWITCHES, ETC. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
42. CONTRACTOR SHALL PROVIDE FIRE RETARDANT BLOCKING OF PLYWOOD AS INDICATED OR OTHERWISE NECESSARY INSIDE/AT PARTITIONS FOR BENCHING, CABINETS, SHELVING, MILLWORK AND OTHER WALL MOUNTED FIXTURES. REFER TO PLANS, ELEVATIONS AND DETAILS FOR FIXTURE LOCATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE SUBCONTRACTORS FOR TYPE, QUANTITY AND LOCATIONS OF BLOCKING.
43. THE CONTRACTOR SHALL FLASH PATCH CONCRETE FLOOR SLABS WHERE NECESSARY TO PROVIDE A SMOOTH, LEVEL SURFACE FOR FLOOR FINISHES, EQUIPMENT AND ANY OTHER CONSTRUCTION.
44. ALL WORK SHALL BE GUARANTEED TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S OCCUPANCY, UNLESS OTHERWISE NOTED.
45. GENERAL CONTRACTOR SHALL APPLY FOR AND OBTAIN AT THE CONTRACTOR'S SOLE EXPENSE ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY ALL APPLICABLE BUILDING CODES AND REGULATORY CITY AND STATE AGENCIES, UNLESS OTHERWISE NOTED.
46. THE CONTRACTOR SHALL PERFORM AND/OR PROVIDE ANY TEST OR CONTROL INSPECTION OF SPECIFIED MATERIALS, SAMPLES, PRODUCTS AND TEST SPECIFICATIONS REQUIRED BY LOCAL PERMIT AGENCIES WITH AUTHORITY OVER THIS PROJECT.
47. UPON AWARDING CONTRACTS TO SUBCONTRACTORS, THE GENERAL CONTRACTOR SHALL SUBMIT TO THE OWNER, A SCHEDULE FOR ALL LONG LEAD TIME ITEMS ON THE PROJECT (I.E. MATERIALS, HARDWARE, FABRICS, ETC.) AND SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER, PRIOR TO ORDERING, ANY ITEM WHICH MAY CAUSE THE PROJECT TO BE DELAYED.
48. THE GENERAL CONTRACTOR, PROMPTLY AFTER BEING AWARDED THE CONTRACT, SHALL PREPARE AND SUBMIT FOR THE OWNER'S INFORMATION, A CONTRACTOR'S CONSTRUCTION SCHEDULE FOR THE WORK. THE SCHEDULE SHALL BE REVISED AT APPROPRIATE INTERVALS AS REQUIRED.
49. THE OWNER SHALL REVIEW SNAPPED CHALK LINES FOR PARTITION LAYOUTS, DOORS, TELEPHONE, DATA AND ELECTRICAL OUTLET LOCATIONS ETC. PRIOR TO COMMENCEMENT OF INSTALLATION. THE GENERAL CONTRACTOR SHALL GIVE ADVANCE NOTICE (MINIMUM THREE DAYS) TO THE OWNER OF THIS AND OTHER PERTINENT SITE MEETINGS.
50. PRIOR TO FABRICATION, SHOP DRAWINGS DESCRIBING THE OVERALL SCOPE AS WELL AS COMPLETE DETAILS OF WORK TO BE PERFORMED FOR ALL APPLICABLE TRADES SHALL BE SUBMITTED FOR ARCHITECT'S APPROVAL.
  - A. ALL SHOP DRAWINGS SUBMITTALS SHALL CONSIST OF ONE SET OF PDF'S SUBMITTED VIA EMAIL.
  - B. ALL SHOP DRAWINGS SHALL BE BASED ON ACTUAL FIELD DIMENSIONS.
  - C. WHERE APPLICABLE, SAMPLES OF EACH MATERIAL, COLOR AND FINISH SHALL BE PROVIDED FOR OWNER'S APPROVAL.
  - D. A MINIMUM OF FIVE DAYS SHALL BE GIVEN FOR SHOP DRAWING REVIEW.
51. THE GENERAL CONTRACTOR SHALL SUBMIT FOR OWNER'S APPROVAL, SPECIFICATIONS FOR ALL MATERIALS AND/OR SAMPLES PROPOSED FOR USE.
52. SPECIAL INSPECTION OBSERVATION REPORTS ARE TO BE EMAILED TO THE ARCHITECT AND THE ENGINEER WITHIN A WEEK OF EACH INSPECTION.
53. ALL DOORS & MILLWORK ARE TO BE FABRICATED PER THE NORTH AMERICA ARCHITECTURAL WOODWORK STANDARDS US VERSION 3.

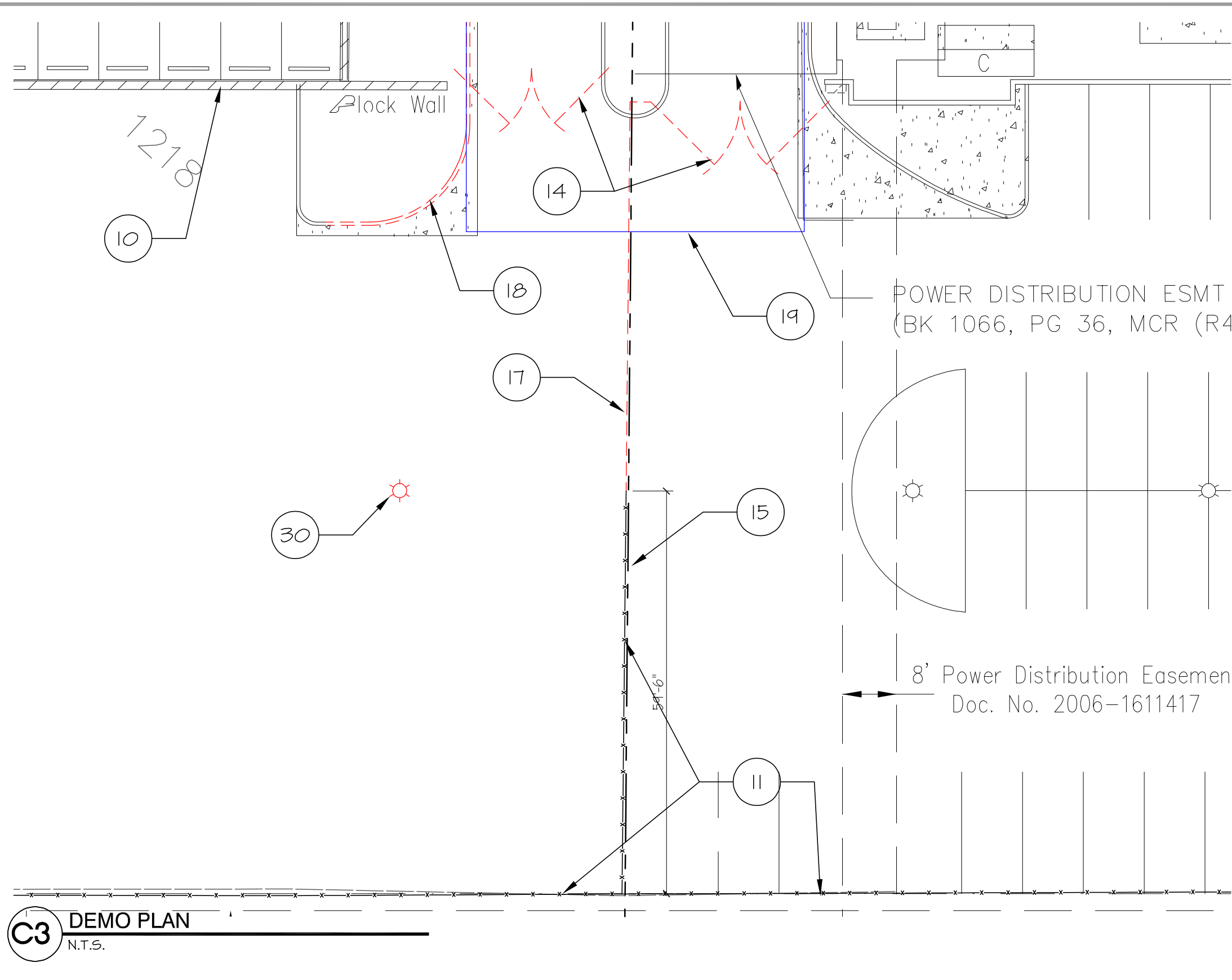
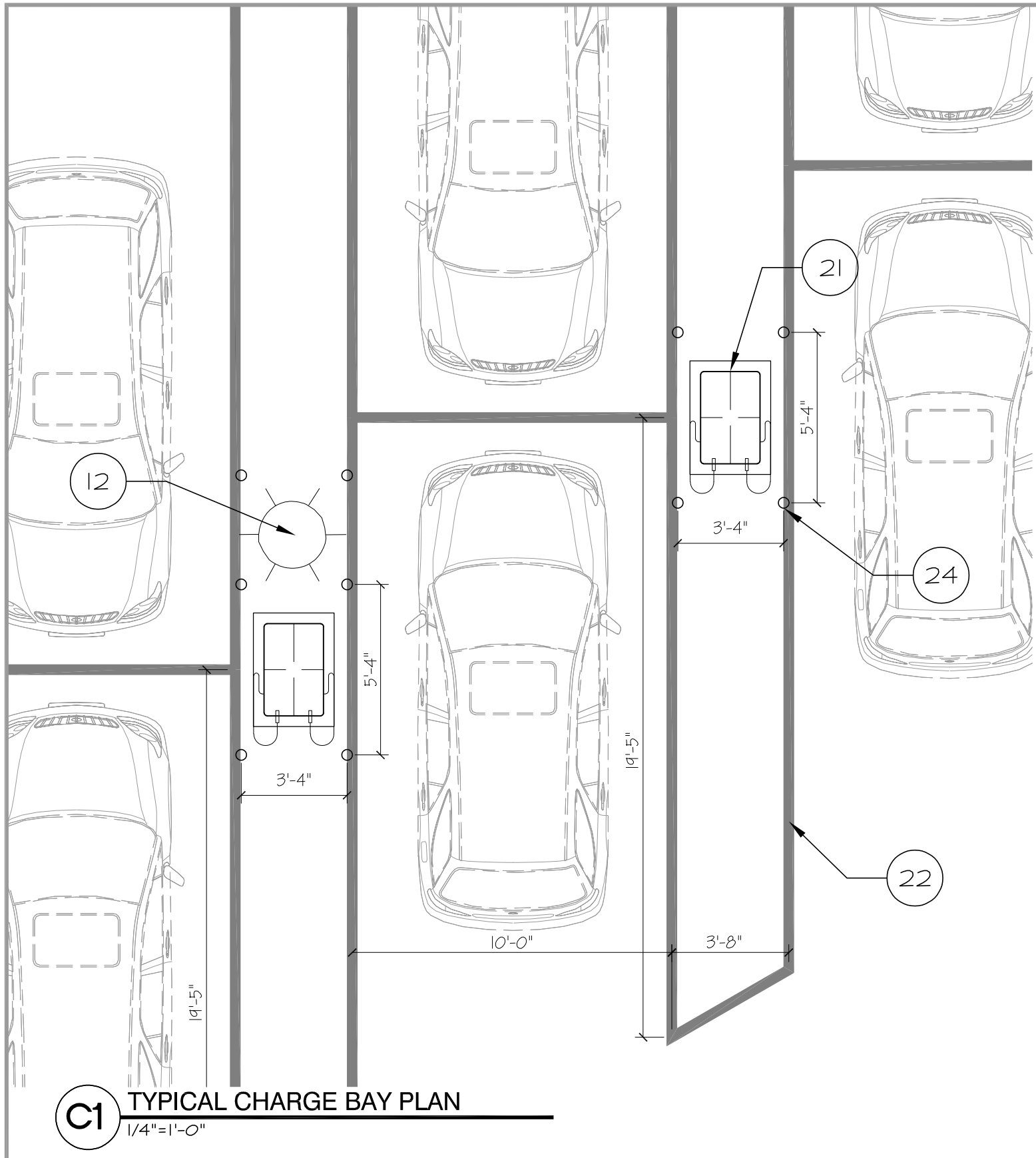
SITE AERIAL 1"=80'-0"



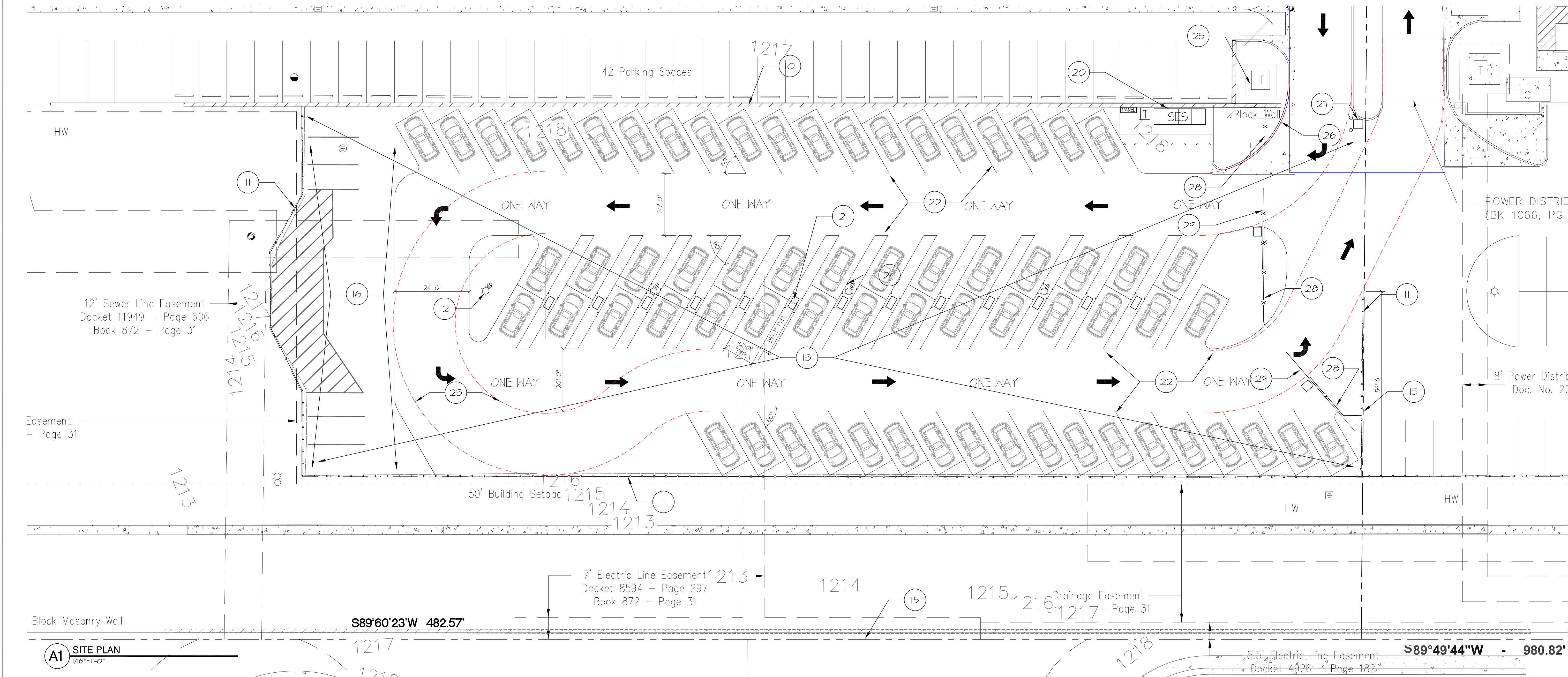
SITE PLAN 1"=40'-0"



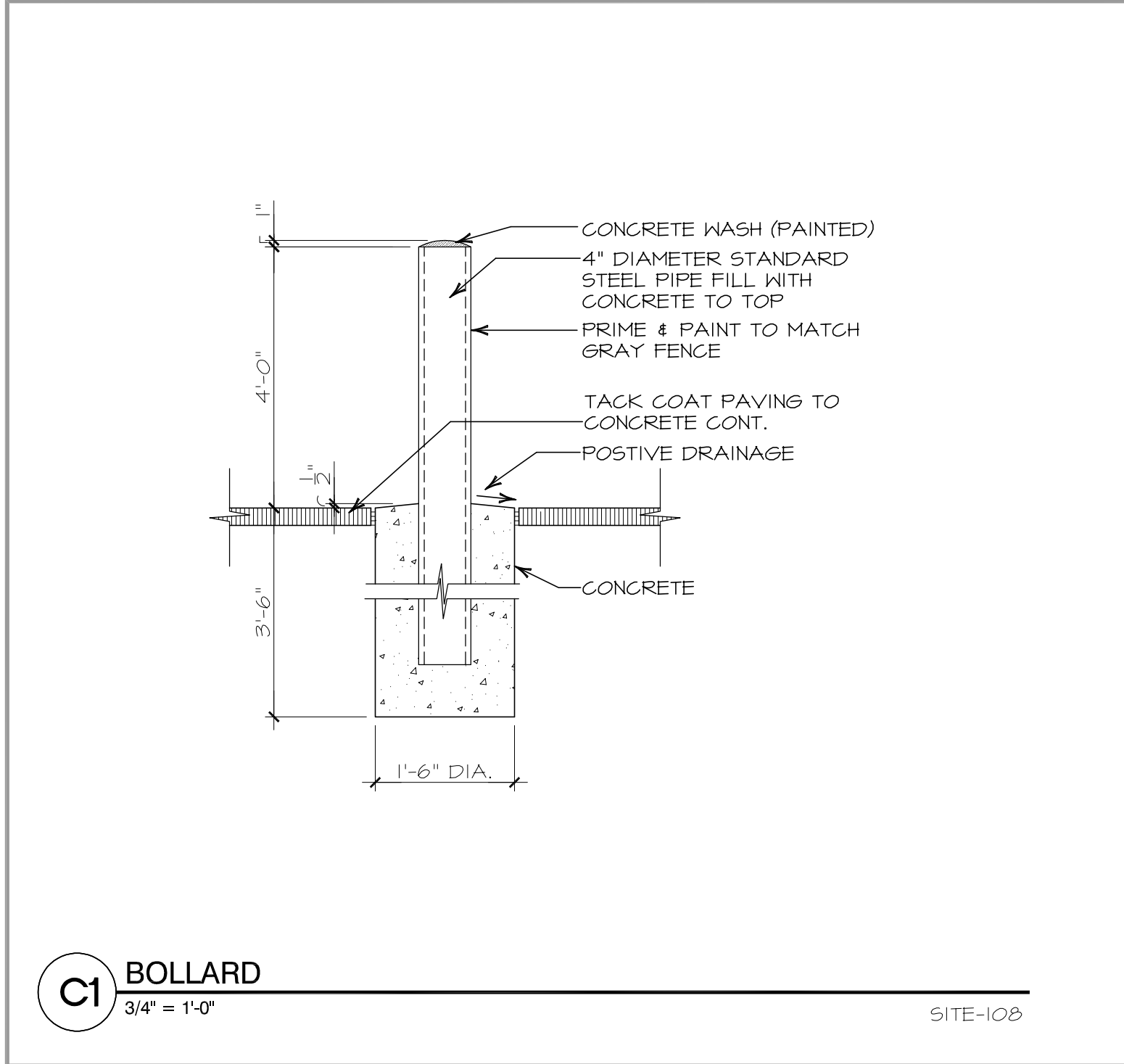




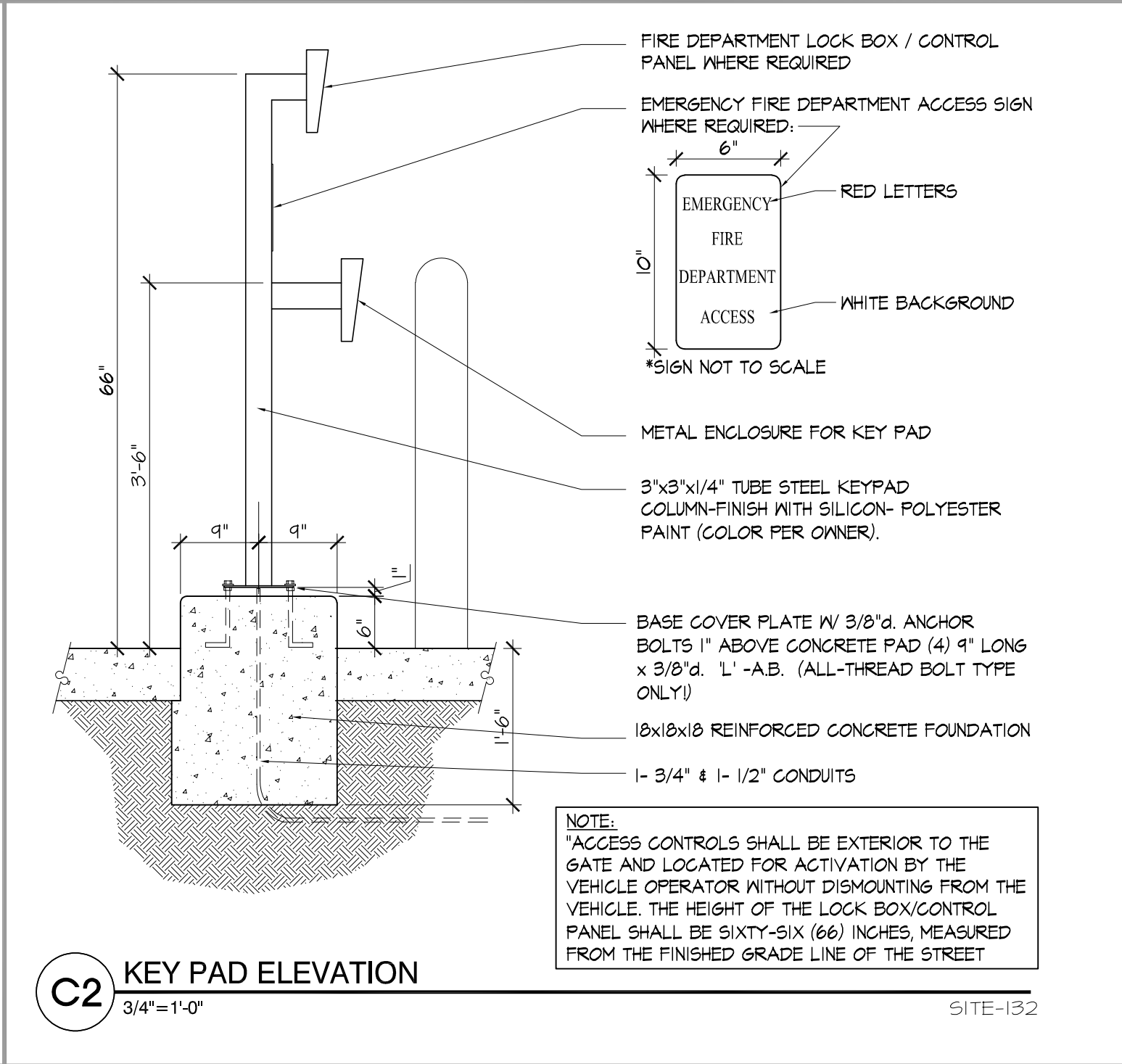
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  -



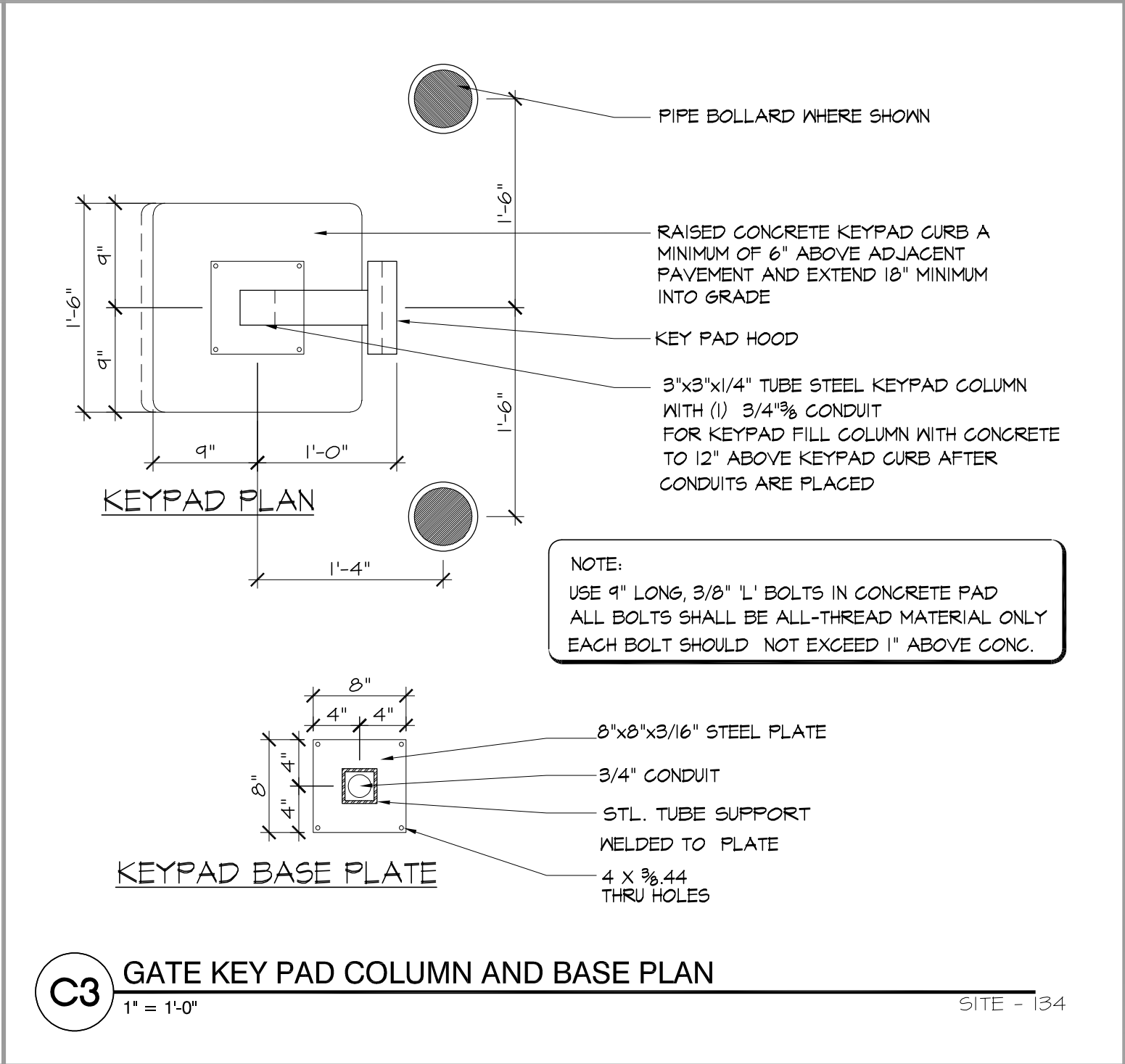




C1 BOLLARD  
3/4" = 1'-0"  
SITE-108



C2 KEY PAD ELEVATION  
3/4" = 1'-0"  
SITE-132



C3 GATE KEY PAD COLUMN AND BASE PLAN  
1" = 1'-0"  
SITE - 134



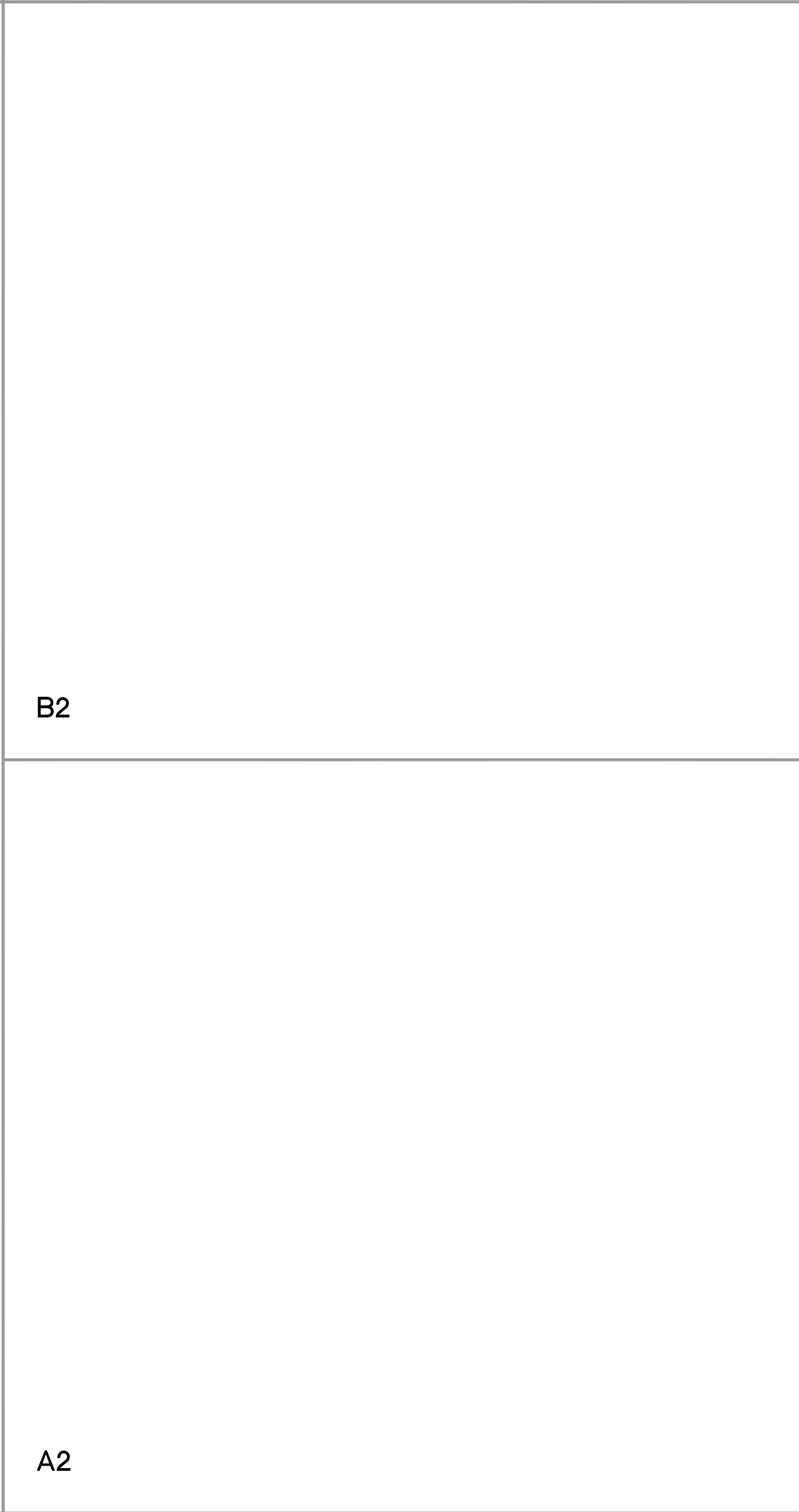
C4 EXISTING FENCE  
N.T.S.

## Terra DC Fast Charger

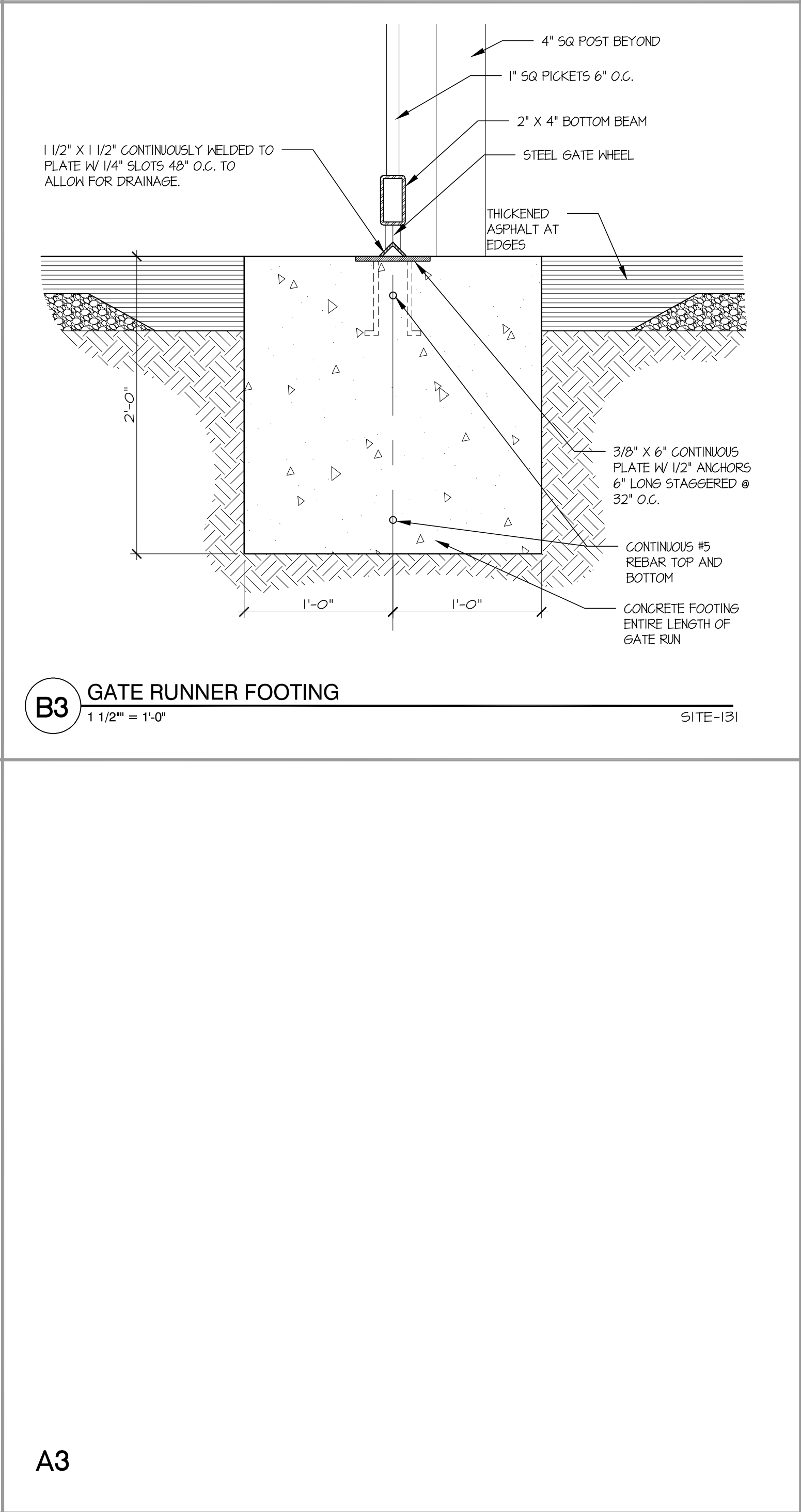
At a glance

- CONNECTED** 24/7/365 remote monitoring and diagnostic, receiving updates over-the-air to support every new EV on the road
- UPGRADABLE** power modules to support increasing demand for EVs and increasing battery ranges
- LCD** touchscreen with high brightness and graphical visualization of the charging process
- ROBUST** all-weather powder-coated stainless steel enclosure
- SAFETY** emergency stop push button to immediately stop charging operation
- CONVENIENCE** and hassle-free reach for drivers with retractable cable management option
- GREATER** utilization with up to 3 simultaneous charging of electric vehicles, with CCS, CHAdeMO, and AC plug combinations
- EASY** installation thanks to the improved design allows to connect and start-up the charger in less than 2 hours
- AUTOMATIC** authentication capability via CCS connector in the vehicle thanks to easy OCPP integration and Autocharge functionality

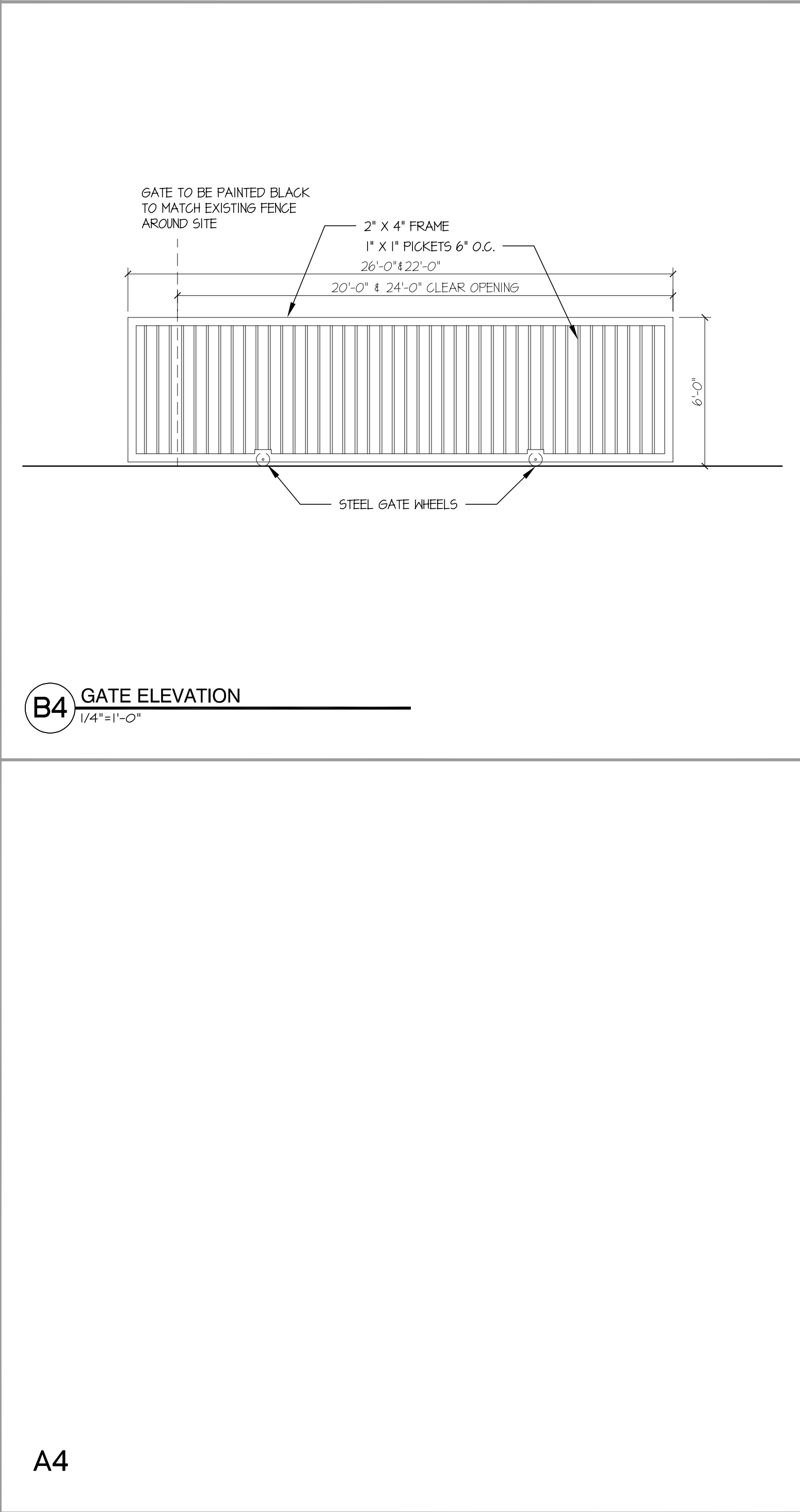
A1 CHARGER DETAIL  
N.T.S.



B2



B3 GATE RUNNER FOOTING  
1 1/2" = 1'-0"  
SITE-131



B4 GATE ELEVATION  
1/4" = 1'-0"

**BCMA**  
ARCHITECTURE

ARCHITECTURE  
PLANNING  
COLLABORATION

322 W. KNIGHT LN.  
SCOTTSDALE, AZ 85257  
P: 480.864.8224

REGISTERED ARCHITECT  
30786  
BRIAN C. MOORE  
Date Signed: 10/20/24  
ARIZONA, USA  
Stamp: 12/17/24

**WAYMO CAR CHARGER  
INSTALLATION**  
8701 E. MCDOWELL RD.  
SCOTTSDALE, AZ 85257

12/14/2023  
1/21/2024  
1/21/2024  
3/18/2024  
4/30/2024

Number of Submittals: 1  
Number of Submissions: 1  
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23143  
2/1/2024  
Job Number  
Date

DETAILS

AS-102

4/30/2024 - SITE PLAN REV.



**January 21, 2024**

**City of Scottsdale.**

7447 E. Indian School Rd. # 105  
Scottsdale, AZ 85251

Attn: Plan Reviewers

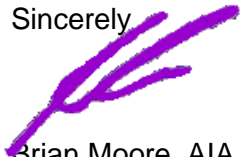
**RE: 8701 E. McDowell Rd. Scottsdale, AZ  
WAYMO Parking and Charging Facility**

Attached is a preliminary design to add 3600 amp electrical service and 13 dual electric car chargers to an existing fenced asphalt parking lot at the back of the existing site. The scope of work is to add the transformer, SES, distribution, and car chargers with bollards and restripe the existing parking lot. All the added electrical will be behind the existing 6' cmu wall that surrounds the site. The existing lights will remain, and no new lighting will be added.

Attached please find the cut sheets for the car chargers.

Please let me know if you have any further questions.

Sincerely



Brian Moore, AIA  
Principal, BCMA Architecture P.C.





# Electrify the road

Terra DC fast chargers. The most successful EV fast chargers in the market, ranging from 20 to 180 kW and ideal for urban applications, retail and refueling stations.



- Compact footprint
- Maximized revenue generation
- Future ready



—  
**The Terra DC fast chargers product line consists of a unique offering, with a wide range of ratings.**

**They are designed for convenient charging of all electric vehicles, including future models with high voltage battery systems. The compact size makes it perfect for urban use, with flexibility to upgrade charging power up to 180kW and ability to charge up to 3 vehicles at the same time.**



# Terra DC Fast Charger

## At a glance

**CONNECTED** 24/7/365 remote monitoring and diagnostic, receiving updates over-the-air to support every new EV on the road

**LCD** touchscreen with high brightness and graphical visualization of the charging process

**SAFETY** emergency stop push button to immediately stop charging operation

**GREATER** utilization with up to 3 simultaneous charging of electric vehicles, with CCS, CHAdeMO, and AC plug combinations

**UPGRADABLE** power modules to support increasing demand for EVs and increasing battery ranges

**ROBUST** all-weather powder-coated stainless steel enclosure

**CONVENIENCE** and hassle-free reach for drivers with retractable cable management option

**EASY** installation thanks to the improved design allows to connect and start-up the charger in less than 2 hours

**AUTOMATIC** authentication capability via CCS connector in the vehicle thanks to easy OCPP integration and Autocharge functionality

### MAX CHARGING POWER

Terra 24: 20 kW  
Terra 54: 50 kW  
Terra 94: 90 kW  
Terra 124: 120 kW (and 2 x 60 kW)  
Terra 184: 180 kW (and 2 x 90 kW)

### MAX CHARGING VOLTAGE

CCS 920 V DC  
CHAdeMO 500 V DC

### DIMENSIONS

Height 1900 mm / 74.8 in  
Width 565.5 mm / 22.3 in  
Depth 880 mm / 34.6 in  
Weight 395 kg / 871 lbs  
(Terra 184)



# Why Terra DC fast chargers?

Advanced, flexible, compact and smart



## Power sharing for high utilization

- Terra 124 and Terra 184 can charge two vehicles simultaneously
- High utilization of charging assets benefit both public and fleet business models
- Supports all open charging standards in flexible configurations
- Safety certified to the highest standards



## Future-proof, flexible high-voltage technology

- Flexible, redundant power architecture supports high uptime
- High-voltage charging range up to 920 V
- Fully compatible with current and future EVs
- Option to upgrade power over time, from 90 kW up to 180 kW, to follow EV market growth



## Reliable, compact and flexible design

- Based on the Terra platform, the most widely deployed DCFC family in the world
- Space-saving, all-in-one footprint with very easy installation and servicing
- Robust construction for all operational environments
- Cable management options enhance longevity



## Always connected, always smart

- 24/7 connectivity, 99.5% ABB network uptime
- Remote services with remote firmware updates and upgrades
- OCPP integration-ready as well as ABB Web Tools functionality
- Autocharge and ISO 15118-ready for plug and charge operation



# Fast charging beyond 50 kW

## Power sharing delivers high utilization

### 90kW Charging Points

Terra chargers can provide a quick refill adding 100 miles of range in as little as 15 minutes (Terra 94) or 30 minutes (Terra 54).\*



one EV  
up to

**90 kW**



### Retail/Shopping Sites

The Terra 124 charger can provide a full battery charge to two vehicles simultaneously while drivers are shopping, dining or at the movies.



one EV  
up to

**120 kW**



two EVs  
each up to

**60 kW**



one EV  
up to

**180 kW**

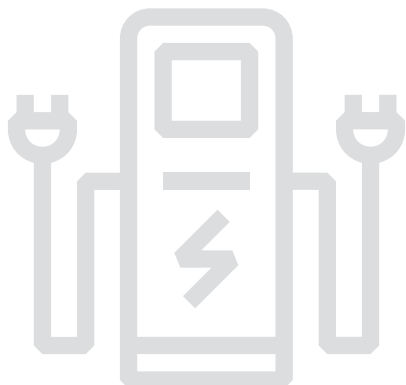


two EVs  
each up to

**90 kW**



\* actual charging speed depends on the electric vehicle model(s) and charging conditions



Simultaneous charging with high power fast chargers can deliver maximum charging asset utilization while serving an ever-growing population of large battery electric vehicles.



# High voltage charging explained

## A future-proof strategy

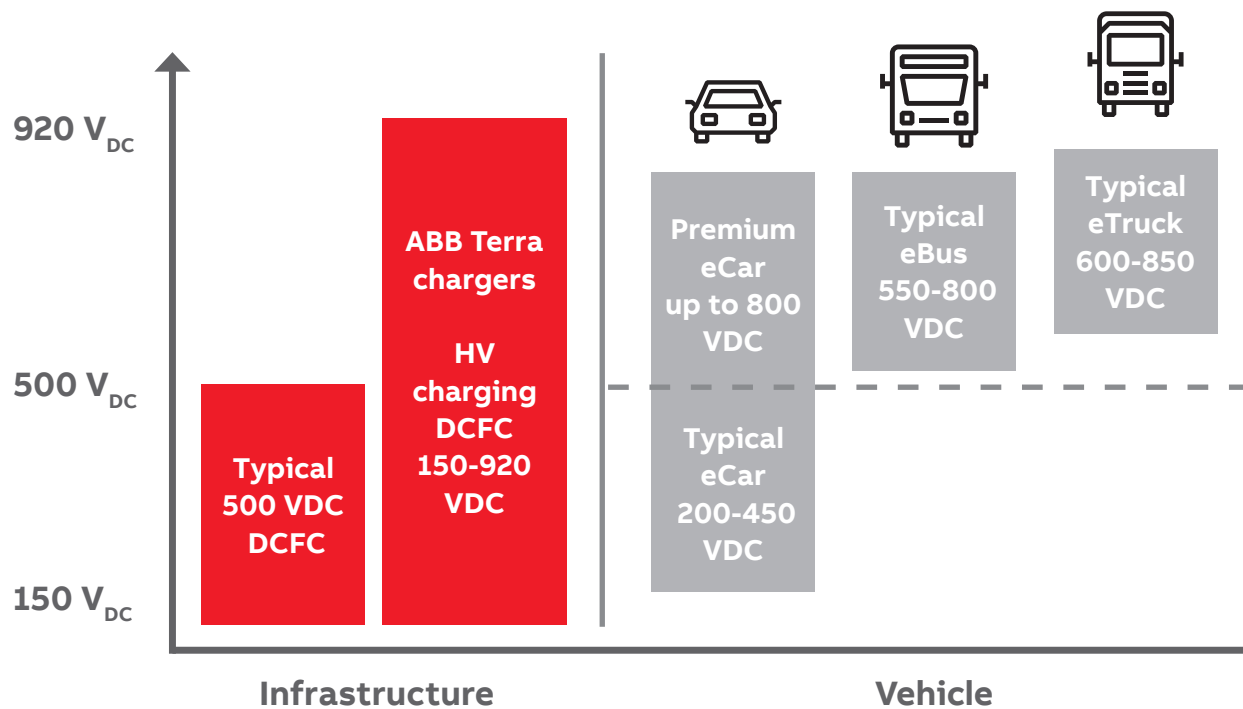
### High voltage charging capabilities

As electric vehicles and their use cases diversify, high voltage DC charging has become more important to increase charging power while ensuring as much efficiency, safety and usability in DC charging systems.

Traditional passenger vehicle battery packs are usually designed for 400 VDC charging, so many standard charging systems do not exceed 500 VDC capability. However, some newer vehicles may have battery packs that exceed 400 VDC, often in the 600 to 800 VDC range.

Some EV battery packs, such as with vehicles designed for fleet usage, may only charge at high voltage ratings, demanding charging infrastructure that can deliver power tailored to HV battery packs.

ABB's Terra 94, Terra 124 and Terra 184 chargers are designed to meet EV battery voltage capabilities up to 920V to deliver charging services across a wider range of today's and tomorrow's EVs.



A high range of DC voltage capability is demanded to deliver efficient charging service to every EV and use case.



# Terra charging times

All-in-one charging for every EV

		Charging time (minutes)					
		50 kW Terra 54 Terra 54HV	90 kW Terra 94	120 kW Terra 124		180 kW Terra 184	
				2 EVs	1 EV	2 EVs	1 EV
Car	60 kWh BEV 400 VDC	50	25	40	20	25	13
	90 kWh BEV 400 VDC	70	40	60	30	40	20
	100 kWh BEV 800 VDC	80	45	65	33	45	22
Bus/Truck	120 kWh BEV School Bus 400 VDC	95	53	80	40	55	26
	150 kWh BEV Delivery Van 800 VDC	120	65	100	50	65	33
	200 kWh BEV Work Truck 800 VDC	160	88	133	66	88	44
	300 kWh BEV 60' Transit Bus 800 VDC	240	130	200	100	130	66

Charge times shown based on average vehicle battery management system (BMS) requesting charging power from 20% to 80% under mild environmental conditions. Data assumes vehicles capable of charging at cited power levels.



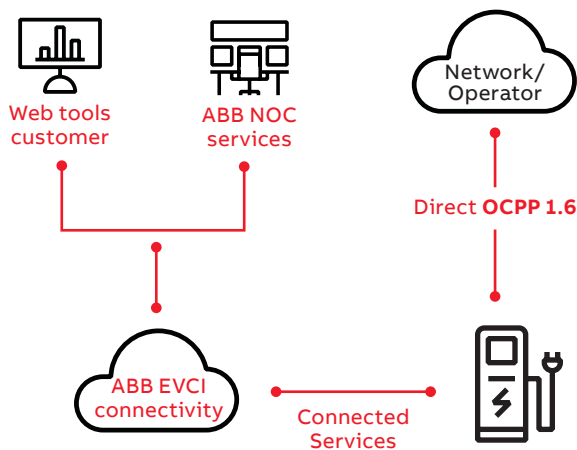
# Flexible OCPP enablement

## Back-office integrations backed by ABB connectivity

### Network communications

ABB has integrated with nearly every major charging network around the world for OCPP support across public and fleet charging operations. ABB chargers can be operated using a direct OCPP connection while linking to ABB's advanced diagnostics and firmware update services for additional intelligence, technical support as well as reduced maintenance.

Leading the industry in implementing authentication technologies, ABB enables Autocharge coupled with an OCPP server. This functionality offers access control at the vehicle level, ideal for fleet asset telematics. ABB's software engineers work with the latest standardized protocols in the EV charging industry including roaming platforms, energy management software and next generation authentication solutions.



**Better and faster support:** Chargers connected to ABB's network operations center can achieve the fastest remote support from ABB network engineers. This leads to higher uptime of a charger network, minimizes the number of unplanned on-site visits, and significantly reduces overall operational costs.

**Scalability and security:** IT resources can scale in the ABB Ability cloud while connectivity monitoring is supported by ABB around the clock. ABB leverages Microsoft Azure based security with fewer backend connections to monitor.



### OCPP Integrations

The Open Charge Point Protocol (OCPP) includes a broad set of messages with a wide range of functionality for enterprise telematics and usage data. The transaction-based set-up of the messages makes it easy to connect to a back-end system to process charging sessions, define usage models and handle data. Other capabilities include integration with apps and energy management, such as with OCPP Smart Charging Profiles.



### Plug and charge

Eliminating manual authentication methods for drivers while delivering granular data sets to network operators and fleets has never been easier with 'plug and play' charging solutions.

ABB supports Autocharge, in conjunction with an OCPP network integration, to meet vehicle-based authentication demands seamlessly with any CCS vehicle.

Additionally, ABB has proactively enabled ISO 15118 (Plug & Charge) for its charging systems to deliver more advanced plug and play charging experience for the next generation of electric vehicles.



# ABB EV Infrastructure services

## For highest utilization and lowest downtime

### Operational excellence

Charging infrastructure must be optimized for the highest utilization and lowest downtime. ABB's remote and real-time services meets that demand, incorporating a decade of experience with thousands of intelligent fast chargers deployed across the globe.

ABB's Terra family of all-in-one chargers are the easiest chargers in the market to service, with high uptime due to its innovative modularity, round the clock connectivity and experience-led design.



### Remote services

- 24/7 connectivity
- Remote services
- Remote diagnostics
- Firmware upgrades
- Driver care web tools
- Charger Care web tools



### Parts and warranty services

- Full service warranty process
- Extended warranties
- Preventive service and maintenance
- Network spare parts programs
- Fleet spare parts programs



### Custom software services

- OCPP integration
- Autocharge integration testing
- Interoperability testing and validation
- Customized enterprise software support



### Training

- Standardized online training
- Customized service training
- Third-party service training programs



# Technical specification

	Terra 184	Terra 124
Product information		
Charging type	DC fast charging and AC type-2 charging	DC fast charging and AC type-2 charging
Outlet options	C: CCS cable, J: CHAdeMO cable, T: AC Type-2 socket	C: CCS cable, J: CHAdeMO cable, T: AC Type-2 socket
Input AC power rating	280 A, 192 kVA	187 A, 128 kVA
Input voltage range	400 VAC +/- 10% (50 Hz or 60 Hz) - CE Version 480 VAC or 270 VAC +/- 10% (50 Hz or 60 Hz) - UL Version	
DC output power rating (max)	180 kW	120 kW
AC output power rating (optional)	22 kW	22 kW
DC output voltage	150-920 Vdc	150-920 Vdc
Number of EV served	Up to 3 (CCT, CJT models) Up to 2 (CC, CJ, JJ models) Up to 1 (C models)	Up to 3 (CCT, CJT models) Up to 2 (CC, CJ, JJ models) Up to 1 (C models)
Cable length	3.9 m Optional: 6.0 m / 8.0 m	3.9 m Optional: 6.0 m / 8.0 m
CCS cables maximum current	Standard: 200 A High current: 400 A	Standard: 200 A High current: 400 A
CHAdeMO cables maximum current	200 A, 125 A (Optional)	200 A
Network type	TN-S, TN-C, TN-C-S, TT (Requires external RCD)	TN-S, TN-C, TN-C-S, TT (Requires external RCD)
Connector types	3-phase, neutral, protective earth (CE models) 3-phase, protective earth (UL models)	3-phase, neutral, protective earth (CE models) 3-phase, protective earth (UL models)
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection	
Overvoltage category	Type II	Type II
Power factor (full load)	> 0.96	> 0.96
THDi	< 4.5%	< 4.5%
Efficiency	> 95% (peak)	> 95% (peak)
Standby power	80 W 980 W (with heater active)	80 W 980 W (with heater active)
Short circuit current	10 kA (CE models) 65 kA (UL models)	10 kA (CE models) 65 kA (UL models)
Pre- charge current	< 1 A	< 1 A
Inrush current	< 100 A	< 100 A
Leakage current	0.8 mA	0.8 mA
Energy metering	Optional: MID metering for AC and DC outlets Optional: Eichrecht/PTB compliant metering solution for AC and DC outlets	
Cellular communication	GSM / 4G / LTE	GSM / 4G / LTE
User interface		
Connectivity	Internet access via 4G / 3G / Ethernet (RJ45)	Internet access via 4G / 3G / Ethernet (RJ45)
User authentication	App, ISO 15118 Plug'n'Charge, RFID, PIN code	App, ISO 15118 Plug'n'Charge, RFID, PIN code
User interface	7" LCD high-contrast touchscreen	7" LCD high-contrast touchscreen
Communication protocols	OCPP 1.5 / 1.6 and OPC-UA	OCPP 1.5 / 1.6 and OPC-UA
RFID Reader	ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more	
Emergency button	Yes. The button can be removed with a retrofit kit.	
Configuration		
Software update	over-the-air updates via ABB web portal	
Control and configuration	ABB web portal, on-board Service Portal, OCPP 1.6, OPC-UA	



Terra 94	Terra 54	Terra 24
DC fast charging and AC type-2 charging	DC fast charging and AC type-2 charging	DC fast charging and AC type-2 charging
C: CCS cable, J: CHAdeMO cable, T: AC Type-2 socket	C: CCS cable, J: CHAdeMO cable, G: AC Type-2 cable, T: AC Type-2 socket	C: CCS cable, J: CHAdeMO cable, G: AC Type-2 cable, T: AC Type-2 socket
140 A, 96 kVA	C, CJ: 88 A, 55 kVA CT, CJT, CG, CJG: 112A, 77 kVA CG, CJG: 143 A, 98 kVA	CJ: 32 A, 23 kVA CT, CG, CJG with 22 kW AC outlet: 63 A, 43 kVA
400 VAC +/- 10% (50 Hz or 60 Hz) - CE Version 480 VAC or 270 VAC +/- 10% (50 Hz or 60 Hz) - UL Version		
90 kW	50 kW	20 kW
22 kW	43 or 22 kW	43 or 22 kW
150-920 Vdc	150-920 Vdc (HV), 150-500 Vdc	150-500 Vdc
Up to 2 (CCT, CJT models) Up to 1 (C, CJ models)	Up to 2 (CT, CJT, CG, CJG models) Up to 1 (C, CJ models)	Up to 2 (CT, CJT, CG, CJG models) Up to 1 (C, CJ models)
3.9 m Optional: 6.0 m / 8.0 m	3.9 m Optional: 6.0 m / 8.0 m	3.9 m Optional: 6.0 m / 8.0 m
Standard: 200 A High current: 300 A	125 A	125 A
200 A	125 A	125 A
TN-S, TN-C, TN-C-S, TT (Requires external RCD)	TN-S, TN-C, TN-C-S, IT, TT (Requires external RCD)	TN-S, TN-C, TN-C-S, IT, TT (Requires external RCD)
3-phase, neutral, protective earth (CE models) 3-phase, protective earth (UL models)	3-phase, neutral, protective earth (CE models) 3-phase, protective earth (UL models)	3-phase, neutral, protective earth (CE models) 3-phase, protective earth (UL models)
Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection		
Type II	Type II	Type II
> 0.96	> 0.96	> 0.96
< 4.5%	< 5%	< 5%
> 95% (peak)	> 94% (peak)	> 94% (peak)
80 W 980 W (with heater active)	80 W 980 W (with heater active)	80 W 980 W (with heater active)
10 kA (CE models) 65 kA (UL models)	10 kA (CE models) 65/10 kA (UL models)	10 kA (CE models) 65/10 kA (UL models)
< 1 A	< 1 A	< 1 A
< 100 A	< 100 A	< 100 A
0.8 mA	0.8 mA	0.8 mA
Optional: MID metering for AC and DC outlets Optional: Eichrecht/PTB compliant metering solution for AC and DC outlets		
GSM / 4G / LTE	GSM / 4G / LTE	GSM / 4G / LTE
Internet access via 4G / 3G / Ethernet (RJ45)	Internet access via 4G / 3G / Ethernet (RJ45)	Internet access via 4G / 3G / Ethernet (RJ45)
App, ISO 15118 Plug'n'Charge, RFID, PIN code	App, ISO 15118 Plug'n'Charge, RFID, PIN code	App, ISO 15118 Plug'n'Charge, RFID, PIN code
7" LCD high-contrast touchscreen	7" LCD high-contrast touchscreen	7" LCD high-contrast touchscreen
OCPP 1.5 / 1.6 and OPC-UA	OCPP 1.5 / 1.6 and OPC-UA	OCPP 1.5 / 1.6 and OPC-UA
ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more		
Yes. The button can be removed with a retrofit kit.		
over-the-air updates via ABB web portal		
ABB web portal, on-board Service Portal, OCPP 1.6, OPC-UA		

# Technical specification

	Terra 184	Terra 124
Multilanguage system	English, Italian, Spanish, German, French, ... and more than 50 languages available and new languages configurable via ABB Web Tool	
General characteristics		
IP and IK rating	IP-54 and IK-10 (cabinet) / IK-8 (touchscreen)	
Enclosure type	Stainless steel 430 and Aluminium	
Operational altitude	Up to 2000 m	Up to 2000 m
Operating temperature range	-35 °C to +55 °C	-35 °C to +55 °C
Storage temperature range	-40 °C to +70 °C	-40 °C to +70 °C
Humidity	20-95 % Rh non-condensing	20-95 % Rh non-condensing
Mounting	Free-standing cabinet	Free-standing cabinet
Dimensions (H x W x D)	1900 x 565 x 880 mm	1900 x 565 x 880 mm
Mass	395 kg	365 kg
Certification and standards		
Charging system	IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000	
Communication to the EV	DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM, CHAdeMO 1.2	
Communication to the backend	OCPP 1.6 JSON	
Safety	Risk assessment	
Warranty	Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available	



Terra 94		Terra 54	Terra 24
English, Italian, Spanish, German, French, ... and more than 50 languages available and new languages configurable via ABB Web Tool			
IP-54 and IK-10 (cabinet) / IK-8 (touchscreen)			
Stainless steel 430 and Aluminium			
Up to 2000 m	Up to 2000 m	Up to 2000 m	Up to 2000 m
-35 °C to +55 °C	-35 °C to +55 °C	-35 °C to +55 °C	-35 °C to +55 °C
-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C
20-95 % Rh non-condensing	20-95 % Rh non-condensing	20-95 % Rh non-condensing	20-95 % Rh non-condensing
Free-standing cabinet	Free-standing cabinet	Free-standing cabinet	Free-standing cabinet
1900 x 565 x 880 mm	1900 x 565 x 780 mm	1900 x 565 x 780 mm	1900 x 565 x 780 mm
350 kg	325 kg	275 kg	275 kg
IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000			
DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM, CHAdeMO 1.2			
OCPP 1.6 JSON			
Risk assessment, Fire analysis			
Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available			

# Designed for flexibility

A configuration for every use case



**Terra 94/124/184 C**  
Single outlet CCS with cable management system



**Terra 94/124/184 CC**  
Dual outlet CCS with cable management system



**Terra 94/124/184 CJ**  
Dual outlet CCS and CHAdeMO with cable management system and credit card reader



## Power levels

- 50 kW
- 90 kW
- 120 kW / 60 kW shared
- 180 kW / 90 kW shared

## Charging standards

- CCS+CHAdeMO
- CCS-only single outlet
- CCS-only dual outlet

## Cable management

- Reliable, tested system
- Factory or field install

## User access / payment

- OCPP Integration
- Credit card reader
- PIN via Web Tools
- Autocharge/ISO 15118







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**For more information please contact:**

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